UNITED STATES DEPARTMENT OF AGRICULTURE

NATIONAL ORGANIC PROGRAM

NATIONAL ORGANIC STANDARDS BOARD (NOSB)

SPRING 2024

PUBLIC COMMENT WEBINAR

Tuesday,

April 23, 2024 11:00 a.m., EST Day 1 National Organic Standards Board (NOSB) Members Kyla Smith, NOSB Chair Amy Bruch, NOSB Vice Chair (Virtual) Nate Lewis, NOSB Secretary Nate Powell-Palm Mindee Jeffery Brian Caldwell Jerry D'Amore Carolyn Dimitri Kim Huseman Allison Johnson Dilip Nandwani Logan Petrey (Virtual) Franklin Quarcoo Wood Turner Javier Zamora (absent)

USDA/National Organic Program Staff

Jared Clark, Acting Assistant Director, and

National List Manager, Standards Andrea Holm, Agricultural Marketing Specialist, Standards Johanna Mirenda, Agricultural Marketing Specialist,

Standards

Heather Kumar, NOSB Technical Support Staff

Esu Obu, NOSB Technical Support Staff

Michelle Arsenault, Advisory Committee Specialist

1 PROCEEDINGS 2 (Time: 11:01 a.m.) MS. ARSENAULT: Welcome, folks. 3 I'm Michelle 4 Arsenault. I work for the National Organic Program and I'm the 5 Advisory Committee Specialist for the National Organic б Standards Board, the NOSB. I am officially calling the Board 7 meeting to order today. And I will note that I am about to 8 start recording. 9 AUTOMATED VOICE: Recording now in progress. MS. ARSENAULT: So we are now recording the Zoom 10 11 meeting. 12 Thanks for joining in the public comment webinars. We have two comment webinars scheduled this week, today and 13 Thursday, and we'll continue with the official Board meeting 14 next week in person in Milwaukee. You will also be able to 15 watch the meeting in Zoom, if you're not with us in Milwaukee. 16 17 So if you're online with us, you should be able to 18 see an instruction slide. If you're on the phone only, I'm going to summarize it briefly for those who are just listening 19 20 in. Attendees are going to be on mute and unable to 21 22 unmute their phones, and that's to prevent Zoom bombers, which 23 we've had once or twice. The chat is enabled at the center of the Zoom task bar. It may be in different places for you and 24 25 you may have to hover over the Zoom window to find it. So you

1 can chat with each other or relay technical difficulties to the 2 NOP, but chats aren't part of the public record and they're not 3 a public comment, and Board members won't be answering 4 questions that come in via the chat.

5 The closed captioning is available in Zoom. If you 6 click the live transcript button or the closed caption CC 7 button in your Zoom taskbar, you can control your own view. 8 You can turn the close captioning on or off, and change the 9 font size, and all that.

10 There may be some fancy features under there now with 11 different languages. I haven't had a chance to play with that, 12 yet. So if you guys want to play around with that, they may be 13 in there.

Please don't use the raise hand feature. All registered commenters will be called on in turn by the Board chair.

You can also customize your own view in Zoom. You
can rearrange what you see on your personal screen by going to
the upper right corner in the view button, and toggling between
gallery view/speaker view.

You can also, when we share slides, which we have a few sets today and Thursday, go to exit full screen and it will not take over your entire screen when we share a PowerPoint presentation. And no worries, it won't change it for anyone else except you, so you're not changing the entire meeting for

1 everyone.

If you're having technical problems, please visit support.zoom.us, and I believe Andrea just put that into the chat for you. And if you sometimes just log off of the Zoom and log back in, that usually fixes your problems.

The webinar is being recorded, as I noted, and a transcript will be posted on the NOP website as soon as the entire meeting is over after next week.

9 All right. Speakers, please make sure that the name 10 displayed in your video tile is correct so we can locate you 11 when it's your turn to speak. You should be able to rename 12 yourselves by clicking the participant list. Then next to your 13 name, you should see a more button, it might be three dots.

Do keep an eye on the chat box. If we can't find you in the list of participants, we may send a note to identify yourself. Sometimes when you dial in on the phone, the phone doesn't connect you to a name. So if I don't have your phone number, then we can't find you.

We will ask you to unmute when you are called upon to speak. So you may get an on-screen message that said the host asks you to unmute yourself. And then you can unmute yourself and turn your camera on, which is optional. You don't have to be on camera, if you don't want to be. Both the mike and camera are on the left side of the Zoom taskbar and also next to your name in the participant list next to the -- or under

1 the ellipsis, the three dots.

If you're on the phone only and you don't have a mute button, you may have to tap star-6. And star-6 will toggle mute/unmute. So you have that functionality.

5 Please state your name and affiliation for the record б at the start of your comments. And just a reminder, each 7 commenter will have three minutes to speak. We'll use a timer 8 that will sound. I'm going to test the timer before we get started here. The timer will sound when your time is up. And 9 when you hear the beep, if you could please finish your 10 11 sentence. The timer is going to be visible in my video tile, which we're going to pin to the screen for everybody. 12 So you can change your view, but that would probably never go away, 13 should never go away. 14

At the end of your comment, the NOSB chair is going to invite NOSB members to ask any questions. So don't run away as soon as you're done talking. There may be questions for you.

19 Now I am going to turn the mike over to Jared Clark, 20 the National List Manager and currently the Acting Assistant 21 Director of the Standards Division, to give us some welcoming 22 remarks. Jared?

MR. CLARK: Yeah, thank you, Michelle. Hello,
everyone. Like Michelle said, I'm Jared Clark, the Acting
Assistant Director of the Standards Division in the National

Organic Program. We continue to be grateful for our ability to
 engage in these virtual sessions, which allow for people to
 participate from wherever they are.

To our public commenters, thank you again for engaging in this process to shape policy. It's always exciting to see democracy in action. And I also thank our audience, you continue to be an important part of this public meeting process.

9 This meeting, like other meetings of the National 10 Organic Standards Board, will be run based on the Federal 11 Advisory Committee Act and the Board's policy and procedures 12 manual. Kyla Smith, our Board chair, will facilitate this 13 session.

We remind everyone it is an open transparent process, so we do ask everyone to be respectful of each other and avoid personal attacks. This extends also to the chat messages. Even if you disagree with the speaker's position, please be sure to provide them the same respect and grace you would want for yourself.

To close, I thank the NOP team and acknowledge all their hard work: Michelle Arsenault, Andrea Holm, Johanna Mirenda, Heather Kumar, and Esu Obu. I continue to be impressed by this team and grateful to work with them every day. Let's give this whole group a big Zoom round of applause. Thank you.

I will now hand the mike back to Michelle Arsenault, 1 2 who will do a roll call of Board members. Thank you. 3 MS. ARSENAULT: Thank you, Jared. All right. Kyla 4 Smith? 5 CHAIR SMITH: I'm here. Good morning. б MS. ARSENAULT: Excellent. Camera and mike working. 7 Amy Bruch? 8 VICE CHAIR BRUCH: Good morning, everybody. MS. ARSENAULT: Good morning, Amy. Nate Lewis? Nate 9 is joining us by phone. Maybe we haven't unmuted. 10 11 UNIDENTIFIED SPEAKER: He needs to be promoted, Michelle. 12 13 SECRETARY LEWIS: I'm here. Can you hear me now? MS. ARSENAULT: We can hear you. Thanks, Nate. 14 Brian Caldwell? 15 16 BOARD MEMBER CALDWELL: Good morning. 17 MS. ARSENAULT: Good morning, Brian. Jerry D'Amore? 18 BOARD MEMBER D'AMORE: Good morning, as well. MS. ARSENAULT: Good morning, Brian -- Jerry, sorry. 19 Carolyn Dimitri is going to be joining us in about an hour. She 20 had a conflict at this time, so I'll keep an eye out for 21 22 Carolyn to join. Kim Huseman? 23 BOARD MEMBER HUSEMAN: Here. MS. ARSENAULT: Good morning, Kim. Mindee Jeffrey? 24 25 BOARD MEMBER JEFFREY: Good morning.

1 MS. ARSENAULT: Good morning, Mindee. Allison 2 Johnson? 3 BOARD MEMBER JEFFREY: Good morning. 4 MS. ARSENAULT: Good morning. Dilip Nandwani? 5 BOARD MEMBER NANDWANI: Good morning. б MS. ARSENAULT: Yay, your speaker is working, Dilip. 7 Thank you. 8 BOARD MEMBER NANDWANI: Good. 9 MS. ARSENAULT: Logan Petrey? BOARD MEMBER PETREY: Good morning. 10 11 MS. ARSENAULT: Good morning, Logan. Nate Powell-Palm? 12 13 BOARD MEMBER POWELL-PALM: Good morning. MS. ARSENAULT: Good morning, Nate. Franklin 14 15 Quarcoo? Franklin? There you are. 16 BOARD MEMBER QUARCOO: Good morning. 17 MS. ARSENAULT: Good morning. Wood Turner? 18 BOARD MEMBER TURNER: Good morning. MS. ARSENAULT: Good morning, Wood. And Javier 19 20 Zamora? All right, I note Javier is absent. 21 And Jared already introduced the NOP staff that are 22 on the call with us. We have a whole team supporting us on the 23 call. Andrea and Jared will be sharing slide decks, for the people that have slide decks so you know who to -- who to ask 24 to advance your slides for. 25

All right. I'm going to hand the mike off now to Kyla Smith, the Chair of the National Organic Standards Board for opening remarks. Kyla?

4 CHAIR SMITH: Thanks, Michelle. Good morning and 5 happy Earth month to you all. I was reflecting yesterday on Earth Day of how grateful I am to be a part of the organic б 7 community. I am so appreciative of each and every one of you 8 for the positive impact you all have on our home, Planet Earth, whether that's through producing organic food, or through the 9 organic certification process, or through advocacy, or 10 11 oversight and enforcement, or even just showing up here today 12 to engage and give public comments.

Though I know we might not always agree, however, for better or worse we are all connected with one another through our involvement in this community. And engaging with one another in this way allows us to keep the organic market thriving and Mother Earth healthy. I couldn't be more proud to be included amongst your ranks and I look forward to hearing all of the comments and questions from the Board members.

20 With that, I will run through some quick reminders. 21 And then we will get started, as we have a full slate of 22 commenters. I think there is a slide? Yes. So just a 23 reminder that there is a policy in our policies and procedures 24 manual about public comments. All speakers will be 25 recognized -- all speakers who have -- all speakers who -- all

1 speakers -- this is worded weirdly, sorry.

All speakers will be recognized who have signed up during the registration period. Persons must give their names and affiliations for the record at the beginning of their public comment. Proxy speakers are not permitted. Individuals providing public comment shall refrain from making any personal attacks or remarks that might malign the character of the -- of any individual.

9 Members of the public are asked to define clearly and 10 succinctly the issues that they wish to present before the 11 Board. This will give NOSB members a comprehensible 12 understanding of the speaker's concerns.

I will call on speakers in the order of the schedule 13 14 and will announce the next person or two so that they can 15 prepare. Please remember to state your name and affiliation, and then we will start the timer. I don't, after I'm done, 16 17 Michelle, I don't know if you wanted to test the timer. But 18 Board members will then indicate to me if they have any questions and I will call on them. Only NOSB members are 19 allowed to ask questions. And then, Michelle, did you want to 20 21 test out the timer?

MS. ARSENAULT: I do, indeed. I think you guys can see my tile. It's pointed towards the speaker. And countdown from five seconds.

CHAIR SMITH: That's a little quiet.

25

MS. ARSENAULT: Yeah, we've been having trouble with 1 2 the mike. So it will be on screen. The lights are kind of 3 bright. You'll see it light up and you'll be able to see the 4 countdown timer on screen. So hopefully that'll be enough of a 5 flag to, without the obnoxious beep, which on my end it's б really loud by the way. CHAIR SMITH: Okay. Well, if it doesn't work, then 7 8 I'm just going to go "eh" -- just kidding. 9 MS. ARSENAULT: Thanks, Kyla. CHAIR SMITH: Okay. So we have Ellie Hudson up 10 11 first. And then we have Matthw Fitzgerald and Liz Bell coming 12 up next after Ellie. So, Ellie, are you ready? 13 MS. HUDSON: I'm ready. CHAIR SMITH: Okay, great. 14 MS. HUDSON: All right. Ellie Hudson, Accredited 15 Certifiers Association or ACA, Executive Director. We are a 16 17 nonprofit educational organization. And our mission is to 18 ensure consistent interpretation of USDA organic regulations through collaboration and education of accredited certification 19 20 agencies. 21 Our membership includes 64 certification agencies 22 that are accredited by the USDA, including yours, of course, 23 And an ever-growing community of non-certifier associate Kyla. members, member companies that support ACA's mission. 24 25 Thank you for the opportunity to provide comments to

the NOSB and the National Organic Program. In addition to the written comments previously submitted and on behalf of these members, we are pleased to offer comment on the following topics: certifier working environment, market development, and online comments.

ACA is coming out of our season of in-person and online conferences for certifiers, which happen annually between January and April. One theme that emerged repeatedly in the dialogue at these events was stress and fatigue around the continued intense pressure in certifier working environments, with ever-increasing complexity and additional steps required to carry out the work of certification.

ACA and our members are fully committed to organic integrity as a regulatory instrument and to the movement of organic. A serious human capital shortage and changes brought out by the strengthening organic enforcement final rule continue to place the most pressure on certifiers. Working in an environment under this level of pressure is not sustainable.

ACA is committed to being a voice in partnership with the Board and the National Organic Program to seek and find areas for addition by subtraction toward capacity building and protecting organic integrity. ACA will continue our work on identifying ways to move further toward a risk-based certification system. We envision a system that reduces recordkeeping burdens and redundancies, eliminates or reduces

unnecessary barriers to certification, and enables organic to
 more effectively reach marginalized communities.

3 Market development. In reviewing the two realms of 4 the Board for the organic market developing brands, ACA was 5 pleased to see funding for various regional efforts to educate consumers. We need to grow this effort at a national level as б we continue to fall short of a cohesive and consistent 7 8 educational effort to tell the great story of organic. Should the Board take up this topic in the future, ACA will commit to 9 partnering within that effort. 10

Finally, ACA thanks the Board and the NOP for the opportunity to offer these comments online. We see the ease of decorum, efficiency, and the ability to participate without having to travel as excellent benefits. If a web-based oral comment option is available, ACA will participate this way for the foreseeable future. Thank you, again. See you next week.

Thanks, Ellie. Go ahead, Amy.

CHAIR SMITH:

17

18 VICE CHAIR BRUCH: Yeah. Ellie, welcome. Thank you so much for kicking us off here and thanks for all the work 19 that you and others are doing to, to get SOE off the ground and 20 21 fully implemented. Really appreciate it. I know it's a busy, 22 busy time. Quick question. You mentioned that there are 64 23 certifying groups or members of ACA. What percentage of all the accredited certifiers does that represent? Are there some 24 additional ones that aren't members? 25

MS. HUDSON: It is 96 percent are U.S. based certifiers and 10 total in the world that are not members. So there's 74 accredited certifying agencies right now and in touch with mostly through Biofach, a lot of the non-members that are outside of the U.S. And I think many of them just weren't aware of ACA's benefits, so we're working on bringing them into the tent.

8 VICE CHAIR BRUCH: Excellent, thank you. And just to 9 follow-up with that, with SOE being implemented, there's more 10 defined procedures about grower groups. And with the internal 11 controls person within a grower group, is their future outreach 12 to try to get them involved with some of the benefits of ACA so 13 they can fully execute a, a system with integrity?

14 MS. HUDSON: Thanks, yeah. I think this is on our 15 We have -- we're looking at some potentially working on radar. 16 a gap analysis as a starting point within producer groups and 17 how it's impacted on SOE. And I will also say that Kyla is 18 often in these conversations when we talk about producer So that's been a really helpful tie-in to the NOSB, as 19 groups. 20 well.

21 VICE CHAIR BRUCH: Thank you, Ellie, appreciate it.
22 MS. HUDSON: I mean I should say kind of looking at
23 maybe some of the differences and similarities with the EU
24 regulation and USC organic.

25

CHAIR SMITH: Any other questions for Ellie? If not,

Burke Court Reporting & Transcription (973) 692-0660

17

I have one. I just -- I saw in ACA's public comments a request to -- because of the business within the certification community as you pointed out, a request to pull back the TR template back to subcommittee so that ACA could provide additional comments leading up to the fall. And I wondered if you could maybe speak a little bit more about that?

MS. HUDSON: I think Marni Karlin from my -- my
colleague Marni is in a better position to speak on this
particular issue and she's got comments coming up on Thursday.
So I'll just defer.

11 CHAIR SMITH: Thanks, Ellie. Oh, you're not off the12 hot tee, yet. Amy's back. Go ahead, Amy.

VICE CHAIR BRUCH: Yes. Kyla, you reminded me of one 13 thing, thank you. And kind of in connection with Kyla's 14 comment, just a macro question for you, Ellie. There was a lot 15 16 of comments about, you know, pulling documents maybe back and 17 waiting just because of the busy time, because I know there 18 wasn't full, full execution with, with comments. But I was wondering was the open docket something we could leverage when 19 it is available, so we can kind of keep the momentum going and, 20 21 and still deliver some new material for the next semester, if 22 we kind of leverage that open docket in the interim? 23 MS. HUDSON: I think that's a great idea.

24VICE CHAIR BRUCH: Okay, excellent. We'll try to get25that going as quickly as we can on our end. There's a lot of

steps involved. But on our end, we'll try to do our best.
 Thank you.

CHAIR SMITH: Thanks, Ellie.

3

4

MS. HUDSON: You're welcome. My pleasure, enjoy.

5 CHAIR SMITH: Okay. Up next we have Matthew 6 Fitzgerald. Maybe we couldn't find Matthew? Matthew, if 7 you're there, if you can request to be unmuted or maybe put 8 something in the chat to signify that you're there? Otherwise, 9 we will go next to Liz Bell and we can circle back around to 10 Matthew in a bit.

11 Okay. So we have Liz Bell coming up next. Then we 12 have Scott Myers and then Grant Marcuccio. Again, I'm going to 13 probably get some names wrong, so grace is appreciated. So, 14 Liz, if you are ready? Don't forget to state your name and 15 affiliation.

16 MS. BELL: I'm Liz Bell and I represent CROPP 17 Cooperative/Organic Valley. Good morning. Thank you to the 18 NOP and the Board for giving me this opportunity today to provide comments on behalf of our co-op. I work to advocate 19 for and consult our 1,600 farmer member owners on their 20 21 certification matters. I also lead our farm research hub that 22 helps to connect our farmers and their needs with research 23 partners.

24 Organic Valley believes that holistic animal care is 25 essential in organic livestock systems. We applaud the efforts to continuously improve animal care management techniques and treatments that alleviate animal pain. I'd like to announce that Organic Valley in partnership with Stonyfield Organization, Horizon Organic, and Aurora Organic Dairy petitioned to add meloxicam to 205.603 of the National List. The petition is listed on the NOP petition substances index website.

8 Meloxicam would be used by organic livestock producers for improved pain management and overall animal 9 welfare. We are hopeful that with the addition of meloxicam to 10 11 the National List, along with the new organic livestock and 12 poultry standards rulemaking, they will be more and more 13 regarded that organic is animal welfare. There will be several 14 others giving oral comments this week and next on meloxicam, 15 including a few veterinarians that can provide technical 16 expertise and better answers to your questions.

17 Regarding sunset inputs, I would like to call out our support to relist DL-Methionine on the National List. 18 This is an essential feed additive for organic poultry producers. 19 We support additional research in this field to, to encourage more 20 21 commercially available alternatives and believe this research 22 priority should be at the top of the list. Our producers do 23 not feel the current restriction is an issue. And we believe this aligns with the organic philosophy. 24

Once again, we celebrate the origin of life

25

rulemaking and have seen firsthand the impacts of that with the
 numerous conventional dairy farmers now transitioning to
 organic these days, many joining the Organic Valley co-op.

Regarding SOE implementation, there have been some sticking points we recognized in these early days for our producers specifically. First, I imagine it's no surprise that there are several previously exempt operations that are learning just now that they need to be certified.

9 Firstly, I can say the least for our certifiers, I 10 recognize they are working diligently to get these operations 11 certified as quickly a possible. I hope to encourage there be 12 grace given to these farms that work with such operations and 13 their supply chain as they play catch-up on this requirement.

14 Secondly, it seems that the intent of the nonretail 15 labeling requirement was meant for the movement of organic 16 goods being shipped or stored, not for organic products 17 received or produced on-farm and stored there for use. It's been unclear and inconsistent how certifiers are handling this 18 for producers. It's a hinderance to organic farmers to add a 19 sign on their outdoor concrete silo, pit wall, or adhere a 20 21 sticker on their milk tank, especially for those solely 22 producing organics.

CHAIR SMITH: You can finish your sentence.
 MS. BELL: It truly does not feel sound and sensible
 or a risk-based approach to require this in scenarios in the

organic system. I welcome further clarity. Thank you. 1 2 CHAIR SMITH: Thanks, Liz. Questions for Liz? Ι 3 don't have a question, but I will just say that ACA is fully 4 aware of the nonretail container labeling discrepancies and I 5 believe we'll be engaging in a working group soonish, shortly, б so hopefully that will provide some consistency of 7 interpretation. 8 MS. BELL: Thank you. 9 CHAIR SMITH: Thanks. Okay. Next up we have Scott And then after Scott, we have Grant Marcuccio and then 10 Mvers. 11 Ramy Colfer. Scott, don't forget to say your name and 12 affiliation, and then you can get started. MR. MYERS: Sure. All right, my name is Scott Myers. 13 I'm with Woodlyn Acres Farm in Dalton, Ohio. And I'd like to 14 15 start by thanking all the members of the Board for your 16 dedicated service to the organic community and also for the 17 opportunity to speak today. The option to comment virtually 18 works very well with my farm's busy schedule. Hence, me commenting from the tractor today. 19 I certify my farm with OFA and the Real Organic 20 21 I also serve as the policy committee chair with the Project. 22 Organic Farmers Association, and participate in both OFA and 23 OFA's profit-sharing workgroups. My farm is a fourth generation family farm raising organic grains and hay, over 24

Burke Court Reporting & Transcription (973) 692-0660

2,500 acres in northeastern Ohio, and this will be our eighth

25

1 year certified organic.

2 I'd like to start with the issue of residue testing 3 in imported organic products. Imports have drastically reduced 4 the price I receive on my farm for my soybeans, sunflowers, and 5 In fact, due to the huge increase in organic sunflower corn. б imports over the past year, we are no longer able to profitably 7 raise them on our farm as the offered contract price is 50 8 percent what it was 2 years ago. This has turned what was once a very promising rotation crop for us into one that we and many 9 other organic farmers no longer plant. 10

11 It is hard to say if these imported grains are truly 12 organic. Yes, they may have paperwork in order. But I see no 13 reason why these grains should not be tested for prohibited substances before being allowed to enter the U.S. marketing 14 15 channels. Our domestic organic crops are regularly tested for 16 prohibited substances, as well as GMO content. And this is all 17 done voluntarily. One of our corn buyers tests every load they 18 receive for GMO content.

19 Let's level the playing field for domestic organic 20 producers and maintain the integrity of USDA organic labelling 21 by testing all imported grains and rejecting them when they are 22 found to have prohibited substances in them.

Lastly, I would like to speak about crop insurance
related to organic farming. Many of you have heard me talk
about crop insurance before. It's something I have become very

passionate about reforming so that it works better for organic farmers. Part of my passion comes from the fact that our farm carried crop insurance for 28 years while farming conventionally. And it saved our farm from disasters multiple times over that period.

6 When I switched to farming organically eight years 7 ago, I was shocked that the same crop insurance products I was 8 using conventionally no longer provided the same protections to 9 my farm due to different ways organic crop prices and yield 10 were utilized. Making things even more difficult is the long, 11 diverse organic rotation they are utilizing.

On many of our farms, which are called units in crop insurance, we may only raise organic for one year out of every five to seven years. A farmer needs five years of actual yield data from each farm unit to get rid of those T-yields and be allowed to use their actual production history. This could take 25 to 35 years on our diverse organic farm, making the insurance product almost useless except for extreme disasters.

I would refer you to the Organic Farmers
Association's written comments for specifics on ideas and
solutions that our crop insurance workgroups have come up with.
At this time, I'd be happy to discuss any of these issues
further with you, if I can be of any help. Thank you for your
time and service to the organic community.

25

CHAIR SMITH: Thanks so much, Scott. It looks like

we have a question from Brian and then Amy. So go ahead,
 Brian.

3 BOARD MEMBER CALDWELL: Scott, thanks so much for your comments. We love to hear from farmers directly. 4 I am 5 just -- I've been struggling for, for quite some time trying to figure out why there isn't more organic grain production, field б 7 crop production domestic in the U.S. And I'm just wondering 8 what you see the, the biggest barriers to, to increasing that And I'm wondering if they are financial and financial 9 are. insecurity or if there is other barriers that you think are 10 11 more important.

12 MR. MYERS: That's a good question. Actually, I think there's a couple of issues. The financial thing might be 13 one of them. And I've experienced this here more recently. 14 MEA, the bank that we get our -- that we finance through on our 15 16 operating load, they -- because they don't have a lot of data 17 on organic farms out there they -- we, we actually have to pay 18 more in interest because we're a higher-risk farm than what a -- than we were when we were conventional. So it costs us 19 20 more in that respect. So that's one.

And I think another is just the fact that it's easy, conventional farming. It's what, you know, what's done. And some of these guys, they, they like to plant and go to some -- the joke was always plant, go to Florida, and then harvest. So it, it takes more effort. But I think it's -- and

another is education. We're fortunate where we're at. I have a lot of organic farming neighbors, so I don't even have to leave buffers and people are amazed at that.

4 And we have -- we're very fortunate to have a lot of 5 mentors, not paid mentors, just a farming community that I know if I have a problem or somebody else has a problem, I can call б 7 at any point in time. So it's, it's really neat to have that 8 here in our part of Ohio. So, and that kind of has grown. As, 9 as we became organic, as a larger grain farmer, now more and more people that see that we can do it successfully have also 10 11 decided to transition.

BOARD MEMBER CALDWELL: Okay. Thank you so much.
CHAIR SMITH: Amy, you put your hand down. Did you
have a question?

VICE CHAIR BRUCH: Yeah, I did. I think -- yeah, 15 16 yep, I do. Scott, thank you for joining us. Love the window 17 office that you're calling in from on your tractor. Really 18 appreciate it. You touched on a lot of topics that are really important to farmers across the Midwest and across I think the 19 20 country, both markets, imports, crop insurance. And, and I 21 really apologize that you have to talk about these topics. 22 Hopefully, we'll find some headway to get some resolution here. 23 But you mentioned and you quantified the impact of the pricing on sunflowers and that they are cost-prohibitive 24

now to grow. And that's, that's unfortunate, because it's a

25

good rotational crop when you're talking, you know, building soil health. We need other things besides corn and soybeans. But could you talk about some of the other crops that you grow and the decrease in the price that you've seen over the last couple of years?

6 MR. MYERS: Sure. Yeah, obviously, we talked about 7 sunflowers. Soybeans, and soybeans have obviously, you know, 8 are pricing half what they were a few years ago. But I also 9 don't feel that \$40 a bushel was ever sustainable in the 10 organic markets and should have been there. But, yeah, 11 they've, they've come down substantially.

12 Corn, you know, we were, you know, we feel that 13 \$11.50, \$12 a bushel is a very sustainable number for corn, for both the, the buyer and the seller, for livestock also. And 14 we're down around \$7, \$7 to \$8 a bushel now. We're very 15 16 fortunate where we live in this part that we're not as far from 17 the buyers as people like in Iowa are, so we get paid higher 18 prices because we don't have to ship it as far. But that is another one we've seen. 19

Wheat is another one. In fact, we've switched to growing mostly hard red winter wheat for specialty markets, because those offer, you know, contracted prices that we know what we're going to get paid. The soft red winter wheat price crashed last year. In fact, there was nowhere to go with our wheat. I still have one load in the bin that I'm hoping to get

rid of. But, yeah, so that's been a -- it's been a real issue. And, and that's one thing that's keeping farmers away from transitioning, not just transitioning or if they decide to get into the, like the top program or something like that. I feel we're -- I'm worried we're setting farmers up to fail if we can't keep these prices at least reasonable for them.

7 VICE CHAIR BRUCH: Thank you for, for commenting on 8 that. There was a written comment that said organic corn costs 9 about 30 percent more to grow organically than conventionally. 10 Would you think your range is similar to that or just in cost 11 of production?

12 And we're probably not that high partly MR. MYERS: because we have, once again, like we have the markets. 13 We also have access to manure next door to us. In most cases, we pay 14 15 much less than most people do. So in some cases compared to my 16 conventional neighbors when I -- like last year, on corn we 17 were maybe I would say 20 percent higher. On soybeans, we were 18 actually the same or lower in some cases on our soybean cost of production than conventional neighbors, due to their chemical 19 20 costs increasing especially.

VICE CHAIR BRUCH: Mm-hmm. Okay. Thank you, Scott.
 Appreciate your comments.

MR. MYERS: Yep, thank you.

23

24 CHAIR SMITH: I think Kim had a question for you,25 Scott.

MR. MYERS: Okay.

1

25

2 BOARD MEMBER HUSEMAN: Hey, Scott. I also want to 3 thank you for your home office there joining us today. My 4 question is around logistics and your market outlets. Can you 5 talk about I know you mentioned the fortunate space that you're in having maybe some of those close by. But can you speak a б 7 little bit to maybe the challenges from a fragmented logistics 8 aspect or your buyer potentials?

9 Sure. And, yeah, like I said, we're very MR. MYERS: fortunate that, you know, most of our corn goes to the eastern 10 11 East Coast, so we're not that far, Eastern Pennsylvania, to 12 those markets. In fact, a lot of ours now is staying local. We've actually one of the local egg buyers or egg, you know, 13 they raise eggs and they put in their own feed and all. But I 14 15 do see that as a real issue.

16 I've talked to friends that are out in Illinois, 17 Indiana that they even have trouble finding trucking sometimes 18 or getting reasonable trucking costs. We've actually went to hauling our own grain in some cases. We've had to go through 19 the whole situation of being DOT certified and everything so we 20 21 can haul our wheat to New York, because we couldn't find 22 reasonable trucking to get our wheat there. And we're doing it 23 for half of what they were going to charge. So that helped open up a market, as well, in that respect. 24

BOARD MEMBER HUSEMAN: Thanks, Scott.

1 MR. MYERS: Thank you. 2 Thanks so much for your time today, CHAIR SMITH: 3 Scott. Thank you, guys, as well. 4 MR. MYERS: Yep. 5 I'm just going to circle back around to CHAIR SMITH: see if we have Matthew Fitzgerald. He -- we were running ahead б 7 of schedule and so it might have been that he wasn't on yet. 8 Matthew, if you are out there? 9 MS. ARSENAULT: I'm not seeing Matthew on the line. There are two commenters on the line that -- we don't have 10 11 Matt's phone number, so I can't tell if one of them is him or 12 not. CHAIR SMITH: What about Grant Marcuccio? 13 Okay. I'm also not seeing Grant with us. 14 MS. ARSENAULT: Okay. So then next up would be Ramy 15 CHAIR SMITH: 16 Colfer. After Ramy, it's Michael Deakin and then Seth Croeck. 17 MR. COLFER: Good morning. Can you guys hear me? 18 CHAIR SMITH: Yep, go ahead. 19 MR. COLFER: Okay. Good morning. My name is Ramy 20 Colfer representing True Organic Products. True Organic 21 Products is a U.S. leader in organic fertilizer and millionths 22 manufacturing used by many organic growers and home gardeners. 23 Our mission is to make organics work for a better world. As an organic input supplier and manufacturer, we 24 25 understand we are part of the food chain. And we know that

1 organic inputs make contact with the edible portion of the 2 crop. True Organics is the only ISO-2200 accredited organic 3 fertilizer manufacturer.

Compost is an important organic amendment used to improve soil quality and soil health. Long-term compost use can substantially improve soil organic matter levels, which have many agronomic benefits to organic crops, as well as reducing pollution risks associated with agriculture.

9 In the early days of organic regulation, a broad 10 standard was established by the USDA-NOP. It posited the 11 following for compost: processed manure product should not 12 contain more than 1,000 MPN fecal coliform per gram of 13 processed manure and not contain more than 3 MPN salmonella per 14 4 grams of processed manure.

Over the last 15 years, food safety for compost has been thoroughly assessed in the produce industry by both the California and Arizona Leafy Greens Marketing Agreement. The acceptance criteria are much different, less than 100 MPN fecal coliform per gram total solids, and negative or below detection limit for salmonella, less than 1 MPN per 30 grams, and negative or below detection limit for S-tech.

We believe the limit of 3 MPN per 4 gram for salmonella and the threshold of 1,000 MPN fecal coliform per gram are unacceptably high rates compared to the produce industry. We strongly encourage NOSB to adopt food safety

compost criteria utilized by California and Arizona Leafy
 Greens Marketing Agreement.

Consumer Reports has partnered with The Guardian to investigate how pesticides contaminate the U.S. food supply and what we can do about it. They recently released studies that strongly recommended consumers switch to buying organic produce to reduce risks to pesticide residues. This concept of organic food being safer than conventional food is powerful. We need to push it forward.

10 A major step forward would be to advance food safety 11 of organic food, including updating the acceptance criteria for 12 compost in organic production. Thank you again for allowing us 13 to comment on NOSB discussion document for compost and thank 14 you for serving on the National Organic Standards Board.

15 CHAIR SMITH: Thanks for your comments, Ramy. Any16 questions for Ramy? I don't see any. Thank you so much.

17 MR. COLFER: Thank you.

18 CHAIR SMITH: Okay. Michael -- next up was Michael19 Deakin. I'm feeling like maybe we didn't have Michael.

20 MS. ARSENAULT: I'm not seeing Michael.

21 CHAIR SMITH: Okay. What about Seth Kroeck? Hi,
22 Seth. I can -- I cannot hear you.

23 MR. KROECK: Morning.

24 CHAIR SMITH: Oh, there we go, great. State your 25 name and affiliation, and then you can get started. MR. KROECK: Good morning. My name is Seth Kroeck.
And for the last 20 years, I've grown certified organic
vegetables and wild blueberries at Crystal Spring Farm, New
Brunswick, Maine. Currently, I serve on the board of the Maine
Organic Farmers and Gardeners Association, the Organic Farmers
Association Policy Committee, the OFA crop insurance workgroup,
and I am a top mentor farmer.

8 Thank you for your service on the Board and for the 9 chance to speak today. I appreciate the opportunity to comment 10 virtually during the busy spring season.

11 My farm is almost 200 certified acres and has been 12 tilled since colonial times. Our wild blueberry crop was 13 tended by indigenous farms from a noble time before that. Our 14 fields are surrounded by forests and broken up by perennial planting, which shelter and host a wide range of species 15 16 beneficial to both our crops in the wider ecosystem that the 17 farm and my family are an integral part of. Because of careful rotations, our soils host a diversity of organisms, large and 18 small, that dwarf the number we can see above the surface. 19

The farm produces for wholesale. We wash, grade, store, and package our produce, and then send it off into the world of retail grocery. The vast majority of my customers, the people that enjoy a crisp sweet carrot or a tart deep purple blueberry will never have the chance to visit my farm or ask me questions about how I grow the food that feeds their

families. What they can do is use the organic seal to choose a
 product that they can trust.

3 In the 20 years that I've been a certified grower, 4 there has been an unprecedented consolidation in retail 5 Small local chains are gone. Large regional chains grocery. are still around but in name only, having been absorbed by four б 7 publicly traded behemoths. This consolidation has continued 8 onto the shelves as produce departments are dominated by private label items and a handful of corporate brands that use 9 their market dominance to crowd out local and regional 10 11 production and distribution.

Unfortunately, consolidation in the market has gone hand-in-hand with distortion or outright defiance of organic standards. Several large brands shop for organic certifiers that allow their input-focused production and move production to cheaper labor markets abroad where certification lacks redundancies or in some cases integrity.

18 The current lack of enforcement around hydroponics and aeroponics is the leading issue for farmers that are 19 members of the Organic Farmers Association year after year. 20 21 And while growing techniques are technological -- while these 22 growing techniques are technological wonders, they are not 23 organic. And when they're allowed to display the organic seal while controlling a majority of a grocery category, it's an 24 insult to injury to those of us smaller growers. 25

34

I spent more than half of my life learning how to farm. I hope to continue to do my job in the future. And I ask that you on the Board, serving in our name, defend the standard so that I can. Thank you very much.

5 CHAIR SMITH: Thanks, Seth. Questions for Seth? Oh,6 Nate, go ahead.

7 BOARD MEMBER POWELL-PALM: Hey, Seth. Can you hear 8 me all right, Kyla? Okay. Hi, Seth. I really appreciate what you just said about retailers and consolidation. And I was 9 wondering if you have any ideas for how we can empower those 10 11 who are independent retailers to be able to tell the story of 12 organic. I think I go into a lot of independent grocery stores 13 and, and ask is this organic. And they're sort of wishy-washy about it. They don't really know how to see organic as a 14 15 selling point for their supply chain. I didn't know if you 16 have any thoughts on what we can do to help on that?

17 MR. KROECK: Thank you for the question, Nate. Ι 18 think, you know, the retailers that we've had great success with and continue to through this process of change, are the 19 ones that, that we as growers create personal relationships 20 21 with, with the buyers. And then can then -- those buyers in 22 the markets can then convey that relationship to their 23 customers.

And so, you know, I spend time in stores doing tastings and talking to customers. I try and have produce

buyers out to my farm so they can see what we do, understand the complexity of what's going on. I think, you know, the understanding organic has always been a difficult thing to educate the public on. And I think generally people understand that it's a lack of synthetic pesticides in fertilizers.

But the idea that we're really trying to grow in б 7 concert with the environment and produce a better, healthier 8 food product for people that's really a major output of that process is what's sometimes lost. And so where we can bridge 9 that, that connection between growers and buyers in wholesale 10 11 by getting, getting growers into the market and getting buyers 12 or, or even the public out to our farms to see a little bit about what we do is, is something that we've had some limited 13 success with locally. 14

15 BOARD MEMBER POWELL-PALM: Thank you.

MR. KROECK: Thank you.

17 CHAIR SMITH: Okay. Allison, please go ahead.

BOARD MEMBER JOHNSON: Thanks, Seth, for being here and your comments. I really share your concerns about consolidation, and what that means for our marketplace, and how, how we grow our food. And I'm curious if you have thoughts about what specifically the Board could do to be helpful here.

The one thing we can do is, is gather information, and sort of pull it together, and share a range of perspectives 1 with USDA. Maybe something around, you know, disparities 2 between farm price and consumer pricing, or something along 3 those lines. I'm curious if there's anything that you think we 4 could do to be particularly helpful to you?

5 MR. KROECK: Yeah, thank you for that question. I 6 think what I was trying to highlight in my -- in my testimony 7 was that consolidation in markets seem to be running parallel 8 with a direct or an indirect push up against the organic 9 standards and trying to kind of weaken those standards or find 10 places where the standards can be met really as minimally as 11 possible.

12 And so I think, you know, in your service to the Board, the more that you can really look at the standards that 13 we have and, and some of the motivations behind why we have 14 them, and, and take changes or, you know, challenges to those 15 16 that come up in the future, and look at them through that lens 17 to protect small growers or those of us who have been doing it 18 a really long time and really believe in, in organic as a way of producing food that's in concert with the farms that, that 19 20 we're working on and the ecosystems that they're a part of. So 21 looking through that lens.

It's complicated. It's not easy. But I think that's really kind of the foundation of the organic movement is that we are trying to do something that is complex and, and working with nature. And quite often, that's not the simple route

1 forward. So maybe not the best answer, but I really appreciate 2 the question. 3 BOARD MEMBER JOHNSON: Thank you so much. Ι 4 appreciate it. 5 MR. KROECK: Yeah. б CHAIR SMITH: Thanks, Seth. Thanks for your comments 7 today and for being with us. 8 MR. KROECK: Thank you. 9 CHAIR SMITH: Next up we have Terry Shistar. I'm going to just circle back around real quick just to make sure 10 11 do we have Matthew Fitzgerald, or Grant Marcuccio, or Michael 12 Deakin. And up next we'll have Terry. And then after Terry, 13 we'll have Julia Barton and then Mike Menes. 14 MS. SHISTAR: Okay, I have some -- a PowerPoint. Slides, I believe, yep. Wait just a 15 CHAIR SMITH: 16 sec till we get those up. Awesome. Okay, Terry, don't forget 17 to state your name and affiliation, and then you can get 18 started. My name is Terry Shistar and I'm on the 19 MS. SHISTAR: board of directors of Beyond Pesticides. You are condemned to 20 21 again hear me talk about so-called inert ingredients. More 22 details are in our written comments. NOP has repeatedly tried 23 to divert our attention from the crucial issue, one that has threatened the integrity of organic products for more than 20 24 25 years and continues to do so.

The question that must be addressed is not whether these potentially toxic inputs should be individually evaluated, but how to do it. The evaluation of so-called inert synthetic ingredients in products used in organic production is not optional. It is required by law. NOP must allocate resources for this project.

Because of the NOSB's intensive review of active 7 8 ingredients and the lack of oversight over other ingredients, 9 the so-called inert ingredients pose greater risks than the active ingredients. Inert ingredients make up the largest part 10 11 of most pesticide products and here are some examples. And 12 inert ingredients are generally not listed on pesticide labels. 13 So NOP and the NOSB have been allowing unknown toxic mixtures to be applied to organic crops and livestock. 14

But onto the real issue, how to deal with inerts. First, identify the materials needing review. Second, pass a binding recommendation that will require USDA to act. And, third, establish a review, review process.

We estimate that there are 137 synthetic inerts currently used in organic production that must be evaluated. NOP must immediately publish the, the known list with a request that registrants of products approved for use in organic production notify NOP of the inert ingredients contained in their -- in their products.

25

We propose that the NOSB first insist on the

publication of that list. The NOSB has undisputed authority over allowed synthetics in organic production and should not shy away from taking a strong position.

Second, we have proposed substitute language for these substances on the National List, establishing a timetable for sunsets. Here, we list categories of substances as previously determined by the inerts working group, but more details are in our written comment.

9 The exact assignment of inert ingredients to the 10 review groups can, of course, be adjusted to meet the 11 convenience of the NOSB and contracted reviewers. The 12 substitute listing should be approved at the fall 2024 meeting. 13 Details of the review process can be worked out while the 14 system is grinding away at the -- thank you.

15 CHAIR SMITH: Thanks, Terry. You have a question16 from Amy.

VICE CHAIR BRUCH: Terry, thanks for your time today. 17 18 Thanks for all your comments. I really appreciate the thoroughness of them. I had a question for you. I appreciate 19 your, your elaboration on the strong position to review inerts 20 21 that Beyond Pesticides has. I wonder what your thoughts are on 22 our equivalency partners that currently, as some written 23 commenters have mentioned, do not have as thorough of a 24 process. So maybe there where -- I guess maybe when we receive 25

products, imports from these equivalency partners that have not had a stringent review on these inerts coming into our country, how -- can you just talk the difference that we want to have a level playing field here and our oversight on our equivalency partners could be potentially different than what our internal controls are based on your recommendation.

MS. SHISTAR: I admit that I don't understand how the equivalency process is working, because it does seem to me that we don't always require of other countries what we require here. So I guess I can't answer that question, because I don't really understand how it works.

VICE CHAIR BRUCH: No problem. I might pop that question up for another person. But I appreciate just your kind of just meditating on that. And if you have a thought in the future, I guess just reach out to us and let us know. We're trying to level the playing field here. Thank you.

17 CHAIR SMITH: Thanks, Amy. Terry, you have another
18 question from Nate. Go ahead, Nate. You're not --

SECRETARY LEWIS: Here I am. Thanks, Terry. I do not feel condemned to hear your comments. I really appreciate Beyond Pesticide's clear and articulated roadmap. And it's really helpful for the Board to have such a -- such a set of clarity to consider.

24 My question for you is actually related the livestock 25 sunsets comments that you submitted. Are you willing to

entertain comments on or questions on that, or should I --1 2 MS. SHISTAR: I will try to remember, yes, okay. 3 Okay. If not, I think I saw Jay on SECRETARY LEWIS: the list, too, so maybe he'll be able to fill in some blanks. 4 5 The first question is related to iodine or teat dips and you all recommend using the language alkylphenol ethoxylates as a б 7 potential annotation. I just want to correct -- or I want to 8 make sure I have it correct, is that kind of the broad category of what we sort of in the organic community call NPEs? 9 Like is nonylphenol the umbrella term, is that correct? 10 11 MS. SHISTAR: Nonylphenol ethoxylates or NPEs are part -- are a subclass of alkylphenol ethoxylates. 12 SECRETARY LEWIS: Okay. So all NPEs are alkylphenol 13 ethoxylates, but not all alkylphenol ethoxylates are NPEs? 14 15 MS. SHISTAR: Right. SECRETARY LEWIS: Okay. Cool, I'm glad we got that 16 17 straight. That's really helpful. I appreciate that. And then 18 the second one is related to methionine. And I see that you all support vitamins and minerals when feed and forage is not 19 sufficient for animal health. And I'm, I'm curious why you 20 don't or wouldn't support something similar for methionine. So 21 22 what's unique about methionine to not, not support something in 23 line with vitamins and minerals? Well, methionine is a synthetic amino 24 MS. SHISTAR: acid, so it's not -- it doesn't quite fit into vitamins and 25

1 minerals. And, and I think that we would support something 2 with a similar kind of annotation for the methionine. But, but 3 I think it's being used more broadly and it's used to, you 4 know, industrialize the poultry industry.

SECRETARY LEWIS: Got it. Thank you.

5

6 CHAIR SMITH: Any other questions for Terry? I don't 7 see any. Thanks, Terry, so much. Up next we have Julia 8 Barton, then Mike Menes. Then Klein Njoume, who maybe we don't 9 have. But that's who is -- who is up in the queue. Julia, 10 welcome, and don't forget to state your name and affiliation, 11 and then you can get started.

MS. BARTON: Thank you. Good afternoon or good morning, yes, I think morning most places. My name is Julia Barton with the Organic Farmers Association. I'd like to share comments today on three topics.

First of all, farmer participation in NOSB. Thank you for including both virtual and in-person comments in this meeting. You have already heard from some OFA farmer members and you will continue to hear from more. This way of handling comments offers an opportunity for various types of interactions, for stakeholder input, and for community building.

OFA farmers are very clear that we need both types of commenting. More opportunities for communication are better. Thank you for taking time and holding space for this important 1 part of the public process.

2	I also wanted to note that Linda Holly, long-time
3	organic farmer, was going to be with you to comment in
4	Milwaukee on Monday. Linda was a very active member of our
5	NOSB workgroup in preparation for this semester's comments.
6	And it was going to be her first time commenting to the Board
7	after 30 years, more than 30 years as an organic farmer.
8	She has had some health issues come up and she's not
9	going to be able to comment. And I just spoke with her a few
10	minutes ago and wanted to let you all know that we will be
11	sharing her comments on social media. She's also going to
12	share them with Michelle. But if you care to follow OFA on
13	social media, then you can hear from Linda Holly, and we'd

14 appreciate you doing that.

15 Next up, hydroponics in containers. OFA is part of a working group of certification, education, and policy 16 17 organizations who agree that soil is the foundation of organic agriculture. OFA farmer members are very clear that 18 hydroponics is not a settled issue. We urge the Board to call 19 for a moratorium on the certification of new hydroponic 20 21 operations and crops grown to maturity in containers until we 22 can utilize our existing NOSB rule-making process to move 23 forward with greater consistency. Please activate the latent 24 agenda item field and greenhouse container production. 25 And finally crop insurance. OFA appreciates the

Board's work on this important topic. OFA farmer members have a wide range of experiences with crop insurance and are eager to make crop insurance more fair, functional, informed -- and informed for organic farmers and for all farmers. You've heard from two of our working groups, very active members already this morning. And you'll meet Noah Went, if you haven't already met Noah, in Milwaukee.

8 If you have specific items our group can workshop, 9 we'd be happy to help in that way. And we'd also be happy to 10 respond to any questions you might have. We appreciated the 11 questions that you asked in preparation for this meeting. 12 Thank you for the opportunity to comment, for your time, and 13 for your service. Thank you.

CHAIR SMITH: Thanks so much, Julia. Any questions for Julia? I don't see anything. I will just note that we did get Linda's email. And we wish her well-being. Thank you.

Okay. Up next we have Mike Menes and then Klein
Njoume, if we have Klein. And then after Klein, we would have
Abby Youngblood. Mike, don't forget to state your name and
affiliation, then you can get started.

21 MR. MENES: Hold on, I want to make sure you guys can 22 hear me okay? Okay, great. Thanks, Kyla. Good morning, 23 everybody. My name is Mike Menes. I work at True Organic 24 Products. I'll start out by saying thank you to the NOSB for 25 your tireless efforts in organic. The work you do continues to

1 have great impact on the foundation of organic.

Let me also mention that I have submitted -- quickly mention that I have submitted a petition to reclassify ammonium extract. We are requesting to take a deeper dive and a deeper look into ammonium extract as a synthetic. But that's already been submitted.

But my focus today is on my -- my comment today is 7 not on this, but on the oversight to deter -- defer fraud --8 deter fraud residue testing in the global supply chain 9 discussion document. Thank you for the opportunity to comment 10 11 on this. I've been working at True for 15 years. Our mission is to make organics work for a better world. Since day one, 12 I've had the opportunity to work on organic integrity as a 13 priority. 14

Historically, we've been actively participating in efforts to deter fraud throughout the supply chain. In fact, the motivation behind our name is true organic products. Early on, I was curious about what the criteria and associated testing was for determining if a tomato, for example, was grown organic. The understanding was that the testing was limited only to pesticide residues and was done with some regularity.

We submit to you that it is all prohibited substances, not just pesticides. All this is in my written comment. And I do want to make sure that I made three distinct requests for clarification and guidance.

Burke Court Reporting & Transcription (973) 692-0660

46

Number one, certifying agents already have the authority under 205.670 to test for prohibited materials and is not limited to pesticides, hormones and products, and GMOs. It is all prohibited materials. So the request is to clarify that certifying agents have the authority to test any prohibited substances.

Certifying agents -- number two, that certifying 7 8 agent have authority to test for agricultural inputs like they would with soil, water, seeds, and all the other things that 9 are listed. The intent would be to ensure that organic 10 11 growers' entire systems are operating in compliance with 12 organic regulations. So the request is to clarify that ag-inputs and ag-products sold as organic can be tested by the 13 certifying agents. 14

The last one is that material review organizations would also have the same authority to test the same prohibited substances. An example has already been provided with NOP Guidance 5012.

We've answered some of these questions in our written comments and focused on Questions 1, 2, and 3 for the prohibited substance or the pesticides, and provide a few examples, and propose a flow diagram. With your guidance and clarification, certifiers and MROs can prevent prohibited substances from entering the organic supply chain, and deter the -- we believe this work can help strengthen organic

integrity and protect the USDA organic seal. Thank you. 1 2 CHAIR SMITH: Thanks so much, Mike. Any 3 questions -- oh, yes, I see Amy has a question for you. 4 VICE CHAIR BRUCH: Yeah. Mike, hi. Thank you for 5 joining us today and that's for submitting your, your written comments. Really appreciate the ones on the residue testing б 7 for global supply chain. And I wanted to dive into that a 8 little bit further with you. You mentioned that in your written comments there's only a couple authorized MROs that are 9 certified to ISO standards. 10

11 When we're looking at this document, we're also 12 looking from a global perspective. So I appreciate the comment 13 that we're not just looking at pesticides. We could be looking at residues, and inputs, and etc. Do you have an idea of how 14 we can execute input testing internationally? I know you have 15 some experience with international, just the value chain. But 16 I just was really curious on the global perspective for input 17 18 testing.

MR. MENES: Yeah. I think great guestion. 19 Thank 20 you, Amy. By looking at all the certifiers, certainly, the 21 global certifiers that are doing that, that are partnering up 22 with the MROs that are currently part of that. And I think 23 they're, they're doing that to some degree. But giving them more authority and making -- and that's part of this thing is 24 the policy aspect of it. Can we partner up with some of the 25

other certifiers that work globally to be able to do that same custom under 170.65, I believe it is. Also, the ISO 2200 that the laboratories would have to use.

VICE CHAIR BRUCH: Sure, that makes sense. 4 It seems 5 like, as Ellie mentioned, we have several international certifiers that are not a part of ACA. And then also, you б 7 know, we're fortunate to have certain material review 8 organizations on our shores, but internationally I think certifiers are bearing a lot of the materials review. 9 So, yeah, just thinking on how input testing can be executed 10 11 internationally, I think is going to be a critical, critical 12 piece to the equation. So thank you.

MR. MENES: Absolutely. I'll make a quick -- it
wasn't ISO 2200, but the laboratories are ISO 170.25.

15 VICE CHAIR BRUCH: Thanks.

16 CHAIR SMITH: Go ahead, Nate.

SECRETARY LEWIS: Residue sampling partner here with Amy. I have another question about the, the testing. I really appreciate you acknowledging that certifiers currently have the authority to test inputs and don't only have to test for pesticides. I, I think that's a point well taken.

And I think partly why we're seeing a lot of residue testing for pesticides is because we have well-established testing methodologies and well-established ways to respond to positive results. So I would -- as we move into the

1 exploration of input testing or non-pesticide prohibited 2 substance testing, do you have some suggestions for, on the 3 input side, what we should test for?

And maybe we'll start there. And then think about 4 5 what we would do with positive results down the road. But I think that's sort of where the rubber meets the road. б So 7 certifiers, like what should they be testing for, let's say, on 8 prohibited -- probably nitrogen is probably one of the concerns in the input world is synthetic nitrogen coming in, in some 9 way. What kind of tests are available to certifiers for that 10 11 concern?

MR. MENES: Great, yeah. Thanks for the question, Nate. I'll look at it from two different perspectives. One is on the food side, where they're working in produce. But also on the ag-input side. On the ag-input side, we've -- there's some very simple tests that you can do that are very inexpensive, that test for like as you mentioned the nitrogen.

So if you look at total nitrogen, how much of that nitrogen is made up of a particular material like ammonia. So they do the total nitrogen test. You do an M&I for nitrogen test and a nitrate test. But it has to work on conjunction with the label.

23 So if you look at derivation statement on the label, 24 it says derived from a protein source, taking any of the 25 protein sources. That is really the primary source of the

1 nitrogen content. And if you test for M&I for nitrogen when 2 it's -- and it's very high compared to what the label claims 3 are, and the nitrate content, then a very easy simple test. 4 That could add up and it begs the question of where did that 5 ammonia come from, where did that nitrate come from, when it 6 was derived from a protein.

7 Beyond that you could do amino acid residue tests 8 where amino acids that make up the proteins, we would expect 9 that the amino acids would be there. So there are some simple 10 tests that you can do for that. And there's a whole plethora 11 of other testing. I go back to our written comment where we've 12 proposed a little bit of a flow diagram on whether some of the 13 questions we can test for this.

What you do with the positives afterwards, I guess that remains to be seen. For me, unfortunately, I think it's going to be difficult for that. But being able to understand what is actually out there initially would be very helpful, because I don't think the questions are being asked currently. Thank you, Nate.

CHAIR SMITH: I'm going to break my own rule and maybe not even ask a question, but I will just point out that some of the things that I saw in public comments and I just was looking at the regulations is that they're -- and so maybe this -- well, anyway, I'm going to say my thing and then see if you want to respond. But, anyway, in 670(b) it talks about testing of agricultural inputs or products when there is reason to believe that that input or product has come into contact with a prohibited substance. And then there is 670(c) which talks about the, the general periodic residue testing that certifiers are doing.

And so I guess I just -- maybe there needs to be -- maybe that's fine and, and all well and good. And maybe that's, that's good. I just wanted to point out that there is like a little bit of difference in distinction on when certifiers are engaging to test non-organic agricultural products -- or not non, things other than organic agricultural products, like inputs or what have you.

So I don't know if you want to respond to that, or if there is more guidance, or if that should be different or any way, but there is a little bit of a difference there.

MR. MENES: Yeah. I, I think that needs to be explored further certainly. And that's part of the reason why we submitted our comment. Didn't focus a lot on the (b) portion of it, but I did look at the (c) where it was the 100 percent regular organic and made with organics.

I think (b) needs to be explored a little bit further, the contact and the potential for cross-contamination. But similar to the other there for improving safety to organic products is, is there a possibility for things to come in contact. There's that cross-contamination potential,
 certainly. I think that needs to be explored. Thank you,
 Kyla.

CHAIR SMITH: Thanks, Mike. Okay. We are like
cruising and are ahead of schedule. So we're going to like run
through who we have next up, and then we're going to circle
back around to see if anybody who was missing when they were
originally called is here. So up next we have Abby Youngblood.
Then we have Kristopher Klokkenga. And then Lily Hawkins.

Hi, Abby. Don't forget to state your name and affiliation, and then you can get started.

12 MS. YOUNGBLOOD: Hi, Kyla. Thank you so much. Thank you to the Board for your work. I'm Abby Youngblood, Executive 13 Director at the National Organic Coalition, or NOC. 14 The past several years have been pivotal for the organic community. 15 16 Together, we close loopholes for the most pressing organic 17 integrity issues. With the origin of livestock strengthening 18 organic enforcement, and organic livestock and poultry standards rules across the finish line, NOC is now considering 19 20 how to prioritize our future work.

Looking forward, three of our top priorities include the omnibus nitrogen proposed rule, increasing organic seed usage, and creating consistency for greenhouses, containers, and hydroponic systems.

25

On the nitrogen rule, the NOSB has already passed

unanimous or near unanimous recommendations to limit high 1 2 nitrogen, non-synthetic fertilizers. The National Organic 3 Program has taken the step of consulting with the EPA. But 4 after nearly a year, there's still no EPA response. As time 5 passes, this new regulation will become much more difficult to So we're asking that the Board use your influence to б adopt. urge USDA to move forward with this rule. 7

8 On organic seed, we are dismayed that organic seed 9 usage has stagnated. There has been no meaningful improvement 10 in the use of organic seed over the past five years. And parts 11 of the NOSB recommendations from 2018 and 2019 were never fully 12 implemented.

In the meantime, new challenges are emerging. USDA has determined that the use of CRISPR genetic manipulation does not have to be identified to end-users. So organic growers may not realize that some of the conventional seeds they're using have been genetically altered using an excluded method. This is a topic that the NOSB should take up.

On greenhouses, containers, and hydroponic systems, these production methods continue to proliferate and we're concerned about the lack of standards and very large discrepancies from one certifier to the next. We urge you to add standards for these systems to your work plan.

In the last bit of time that remains, I want to highlight two topics that relate to excluded methods. First, I 1 want to let you now that NOC fully supports the technical 2 review template update, which will help fill gaps in 3 information that were not covered in the prior TR template, and 4 the additional questions on excluded methods are very 5 important.

For the handling subcommittee, I want to draw your б 7 attention to the detailed comments that NOC made on numerous 8 issues related to products of fermentation. One issue is that several products of fermentation that are on the National List 9 may be made using genetically engineered organisms or GE 10 11 substrates. And there is a lack of clarity as to how 12 fermentation should be reviewed with respect to excluded 13 methods. So we need a clear policy on this and we ask that you add it to your work plan. 14

We hope that you will continue to lean on the experts within NOC's membership to keep moving your work forward. Thank you so much.

18 CHAIR SMITH: Thanks, Abby. Go ahead, Amy. VICE CHAIR BRUCH: Yeah. Abby, thanks for joining us 19 today and thanks for all the comments NOC has submitted. 20 Ι 21 actually have two questions for you. One is about the seed 22 comment that you just stated. So when we look at this, you 23 know, expanding organic seed usage, that's really important. What's your stance on that from an international 24 25 perspective, because I believe international, at least when we

1 talked in previous public comments, you know, it's just we
2 don't have that much data on international like usage,
3 availability, etc. with organic seed. And I guess based on my
4 experience I think that's pretty minimal.

5 So are we setting ourselves up for higher standards 6 in the U.S. and less standards overseas if we push on this 7 organic seed movement. What's your thoughts on that?

8 MS. YOUNGBLOOD: Sorry, it wasn't allowing me to unmute myself for a second there. So that's such a great 9 question, Amy. And it's a really good question also for Cat 10 11 McCluskey, who will comment in person in Milwaukee, because 12 Organic Seed Alliance has done a ton of work on organic usage 13 and they've looked at that international context. In fact, the 14 EU, as I understand it, serves as a model for the U.S. in 15 encouraging greater organic seed usage.

16 And one of the things that I understand even though I 17 don't have deep expertise in this area is that one of the 18 things that we really need to do in the U.S. is once we determine that there is sufficient quantity and quality of a 19 particular variety, we need to move towards requiring organic 20 21 seed usage. And that's something that's been done more 22 effectively in some other parts of the world using databases 23 and other resources to track progress. So I think we actually 24 have a lot to learn.

25

But I think it's a valid question about how our

1 regulations compare to some of the other regulatory systems
2 that we have equivalency with. And I think Cat is better
3 positioned to answer it, than I am.

4 VICE CHAIR BRUCH: No problem. I, I appreciate your 5 Thank you so much. And then second question, in your answer. written comments and I really appreciated these, you б 7 highlighted with a graphic the barriers to organic 8 certification. And mentioned, you know, the NOSB should take up, you know, some of the items there to remove those barrier, 9 which I, I think is really important. 10

I wanted to get your thoughts though on there's been some producers already on the call today that have mentioned, you know, barriers to retention of our organic producers. And I wanted to know NOC's position on, you know, just how do we retain these organic growers that are talking about markets and the, the pressures of imports, etc.

MS. YOUNGBLOOD: Yeah. Thank you so much for raising that. And that graphic that you mentioned is in the slide deck of my colleague Alice Runde, who is presenting just a little bit later. But I just want to pick up on a theme that I heard from some of the organic producers who have already spoken, which is the organic integrity piece.

And certainly for us, you know, we know we lost a ton of, for example, organic dairy producers because of the lack of the origin of livestock rule. So having a regulatory system where we can see those loopholes and fix them more in real time, and have some kind of quicker progress. The regulatory system isn't going to move at lightening speed. But we need something that's more responsive. I think that's really important.

That's actually something that NOC and many other б 7 groups have been working on in the Farm Bill process, to get a 8 regulatory system that's more nimble so we can close loopholes 9 more quickly. And certainly you're the expert in the organic grains sector, the lack of timely action to address fraudulent 10 11 product imports domestically as well and getting our arms 12 around that is really critical to the retention piece. So 13 we're excited to keep working on those issues.

VICE CHAIR BRUCH: Thank you, Abby.

14

15 CHAIR SMITH: Thanks, Abby. You have a question from16 Mindee. Mindee, please go ahead.

BOARD MEMBER JEFFREY: Hi, Abby. Thank you so much for the work that you do in NOC, that your group does. Forming consensus on public comments is hard. So thank you for doing that.

Just thinking about that comment you made about CRISPR and that USDA isn't requiring transparency, if the NOSB is making recommendations on excluded methods, where is the agency now? Like where is the lever for moving forward on these things when we -- it's hard for us to live into our

1 regulations when we're making the recommendations and they're
2 not moving forward.

So where have you had any other big picture thoughts about how we move forward with these kinds of issues in the juggernaut? And then sort of how that dovetails into this chicken and egg question around the TR template where when we're asking -- we need to ask questions to become -- to be capable of making coherent recommendations as the NOSB.

9 But if there's no movement and there's resistance to 10 asking the question, where is that -- what's, what's the next 11 lever for us and what do you see out there in the world as big 12 picture thinking on how do we accomplish our goals and excluded 13 methods?

14 MS. YOUNGBLOOD: Thank you for the question. It's a 15 I think just on that piece of asking the really hard one. question or not asking the question, NOC just believes we have 16 17 to ask the question. We can't stick our head in the sand. And 18 you've seen us on a variety of issues from inerts to excluded methods, like there is no gain over the long term in not having 19 that information available and not addressing those challenges. 20 21 So you heard our full support for knowing where excluded 22 methods are popping up and in the -- in the TRs having that be 23 part of it.

In terms of getting movement from USDA, you know, I think it's time to open up some conversation again about if guidance as we had, you know, for a long time the organic community has pursued guidance to codify NOSB recommendations. I think we need to have a more frank conversation with the NOP over the viability of that path forward versus a regulatory path to get the clarity we need.

б Different administrations view guidance differently 7 and kind of what you can do through guidance. So I think 8 that's where the conversation is at. I think as you're well-aware, you know, there's maybe a right moment and a not 9 right moment to push some of these things forward. So we have 10 11 to look for that as well, where the opening is to get some of 12 what the NOSB has done on excluded methods codified, it's a 13 really hard issue for us.

BOARD MEMBER JEFFREY: Thanks so much, Abby.
MS. YOUNGBLOOD: Thanks for the question, Mindee.
Let's keep talking.

17 CHAIR SMITH: Okay. Up next we have Kristopher 18 Klokkenga. Then Lillian Hawkins and then Alan Lewis. Don't 19 forget to state your name and affiliation, and then you can get 20 started.

21 MR. KLOKKENGA: Hi. My name is Kris Klokkenga. I am 22 a fourth generation farmer based here -- can you hear me? 23 Yeah, okay. I'm a fourth generation farmer based here in 24 Illinois. Central Illinois is where I'm located. I just -- my 25 family and I, I have extensive work -- I worked in Ghana, West

Africa, for eight years. Two years, I worked at a processing plant. And six years, I started a farm there. My wife and I needed to figure out a way to come back home and farm. And at that time, we decided to come back and convert our farm from organic -- from conventional into organic.

We went from a crop rotation of looking at only corn б 7 and soybeans to now we're growing corn, soybeans, oats, 8 alfalfa, popcorn, white corn, and yellow corn. And so we've -- we're excited to come and to farm because, at that 9 time, we got to participate in the organic market because when 10 11 we started it was fair to the farmer. The system valued what 12 the American organic farmer did. And I believed that and I 13 still believe that.

But the fact of the matter is that imports are threatening our viability for the American organic farmer. Our current price of corn and soybeans is nearing the cost of production. And some farmers are getting out because the price has dropped.

I just -- the work that CACS has been doing is 19 invaluable from looking at how to expand organic markets to 20 21 improving the crop insurance for organic producers. There's a 22 lot of good stuff going on. But we need to be testing all of 23 these imported feed grains to ensure there is a level playing field. I fully support figuring out how to use testing to stop 24 any imported grains from being imported into our country. 25

With my experience in, in West Africa, I sourced -- I sourced my, my raw ingredient from Burkina Faso, from Ivory Coast; Togo, Lome; and Ghana. And these countries are stating that they are able to export soybeans and like, like products that are organically, organically produced. And I would just state that from a guy who has on, on the ground, boots on the ground, it's very unlikely that that's happening.

8 These countries struggle to produce the food that 9 they need to eat. A soybean, in order for it to be produced by 10 the average person in Ghana, it would have to go to a crushing 11 facility, be processed, and then made into -- made into soybean 12 meal or soybean oil to use as cooking or to feed their 13 chickens. It's just not, not likely that this is happening.

And I just want to try to remain profitable here in Central Illinois so that my family can continue to succeed, and that we can continue to produce organic food. And do our part to, to just strengthen our industry and our farm.

18 CHAIR SMITH: Thanks so much, Krisopher. Stick19 around. You have a question from Amy.

VICE CHAIR BRUCH: Kris, hi. Thank you for joining us, today, and lending your voice to the process. I just had a question. You said you had experience farming in Ghana. And that's a tropical environment. Can you just talk to just in general yields and quality of growing crops in a tropical type environment?

62

MR. KLOKKENGA: Yes. So I had a farm on Lake Volta, 1 2 a 40-acre, under 40-acre center pivot. There's two rainy 3 seasons in Ghana. We plant one crop starting in March. The other crop we would wait and plant again in probably August. 4 5 The issue with yields were I was yielding probably close to 120 bushels in corn, whereas here in the United States we're б yielding somewhere close to 250 bushels of corn. 7 I was -- it 8 was not an organic process. I was using nitrogen urea as a fertilizer. 9

The things that you struggle with in, in that tropical climate are also disease and pests. And those are things in, in Ghana. Nigeria has commercial farms. The remaining countries in the area probably don't. But it's just, you know, pests and disease, and then if you have those come in, how do you treat them, because the, the agricultural sector isn't robust enough to handle that.

VICE CHAIR BRUCH: Thank you, Kris.

17

18 CHAIR SMITH: Thanks for your comments today. Next 19 up we have Lillian Hawkins and then Alan Lewis. And then we're 20 going to circle back around to see if anybody who was 21 originally called has joined us. Don't forget to state your 22 name and affiliation, and then you can get started.

MS. HAWKINS: Hi, thanks for the opportunity to speak today. My name is Lily Hawkins. I'm the Policy Director of the Organic Farmers Association. Today, I'm going to be

speaking on a couple of big picture issues, as some suggested,
 agenda items that have been raised by our farmer members.

3 First, racial equity. OFA is grateful for the 4 Board's efforts to address racial equity within organic. We 5 encourage you to keep thinking about how the USDA Equity Commission's report findings can become part of the NOSB and б 7 NOP's processes, and possibly make this a work agenda item. 8 Institutionalizing equity through strategic outreach or trainings and a racial equity lens is necessary for organic to 9 move forward. 10

11 Second, global organic movement consistency. Organic 12 is a global movement. And organic farmers deserve to be 13 operating in an equitable marketplace under the organic label. 14 OFA supports the idea of testing imports to verify organic 15 integrity, which has been covered in-depth by other speakers 16 today.

Furthermore, as the U.S. organic regulatory system benefits from consistency of interpretation and application, the international organic movement benefits from increased consistency across national organic programs. There are a few materials in which there is a lack of consistent practice in the U.S. system and that conflicts with our trade partners, as well as OFA interpretations and codex regulations.

24 We appreciate the Board's attention to this matter in 25 reviewing individual materials. And OFA agrees that we should bring our standards into greater alignment with the global
 organic movement.

Third, strengthening organic enforcement implementation. OFA is very grateful for the effort it took to bring the SOE rule to the point of implementation. At the same time, we do have some concerns about low risk operations being overly burdened by the increased scrutiny. And the concern that certifiers might be implementing the rule inconsistently in different areas of the country.

Our NOSB workgroup noted that the paperwork for feedstock, for livestock, for mixed vegetables were more burdensome this year. We've heard some cases of the OSP length doubling from last year to this year. And we do understand that the intention of the SOE was not to increase paperwork burden for low-risk organic operations.

So we request that the NOP during their certifier accreditation audits review the changes made to operating system plans with a critical eye to the burden that's placed on low-risk and mid-scale operations. We want SOE to focus where it was intended. We also further along that line encourage the NOP to support dialogue among certifiers to define low-risk and high-risk operations.

Then lastly a brief comment on agroforestry and the 90/120-day rule. This came up in OFA's annual policy survey of organic farmers and farmers believe that there is need for review of this policy as it applies to agroforestry production
 systems. Please consider creating an agenda item to address
 this request. Thank you.

CHAIR SMITH: Thanks for your comments, Lillian. 4 For 5 what it's worth, I will just say that the NOP has been addressing that risk-based approach with certifiers, not to say б 7 that we don't need more guidance, and wouldn't appreciate more 8 guidance and training. We certainly would. But they have -that's been a focus of, you know meetings and trainings. 9 So I appreciate your comments there. Mindee, please go ahead. 10

BOARD MEMBER JEFFREY: Hi. Thank you so much for your work. I was curious. In your written comment, you commented on post-consumer garbage as far as compost is concerned. And that the regulations are working and that excellent compost is being made.

So I was wondering how if you could sort of clarify what that means. Is it that you're seeing food waste as risky for contamination or just post-consumer food waste as risky? Or food waste that has compostables in plastic? Or like where the line is from OFA's perspective on feedstocks around contamination. Oh, I think you're muted. I'm sorry. Still muted, Lily, sorry.

MS. HAWKINS: There, okay. It wouldn't let me unmute myself for a minute there. So our written comments are a group effort. So other speakers from OFA who are speaking later in

the program might be able to address this issue better. 1 2 But my understanding is with post-consumer waste, 3 there is a risk of contamination from packaging. And we can't truly know what's being put into that compost stream. 4 As a 5 home composter, we have a new curbside composing program where б I live. And I know there's stickers and things getting in there and, you know, who knows. We have children. And it just 7 8 doesn't have the oversight that, that the current stream has. 9 BOARD MEMBER JEFFREY: Thank you. Thanks, Lily. Okay. Next up we have 10 CHAIR SMITH: 11 Alan Lewis. 12 MS. ARSENAULT: Alan is on the phone with us. So we just give him a --13 MR. LEWIS: Am I here? 14 15 CHAIR SMITH: You are here, yes. We can hear you. MR. LEWIS: Great. Alan Lewis --16 17 CHAIR SMITH: Great. Go ahead. 18 MR. LEWIS: Were you telling me to introduce, myself? CHAIR SMITH: 19 Yes. 20 MR. LEWIS: Okay. Alan Lewis. I work for Natural Grocers out of Lakewood, Colorado. I want to thank everybody 21 22 for attending the call and the Board members for their service, 23 of course. In the world of quality and standards, there's this classic quote that says that quality is simply the steps you're 24 25 going to take to get where you want to be.

And I wanted to just talk briefly today about reverse 1 2 engineering the NOSB and the NOP standards. Because if you 3 reverse engineer it, our standards, looks like we intend to end up with only large-scale organic farmers, largely monoculture, 4 5 selling to a few hundred natural brands owned by only a dozen CPG holding companies that have access to retail, retail shelf б space at one of only five retail chains and maybe a handful of 7 8 food service wholesalers.

9 The problem is we can idolize small organic 10 producers. But they won't survive without gaining access to 11 affordable, workable aggregation processing, and most 12 importantly markets, someone to buy what they grow. Similarly, 13 we can idolize organic start-up brands, but 99 out of 100 won't 14 make it into national retail markets, won't make it into the 15 holding companies, won't make it into the retailers.

16 Really, in the broadest sense, the future of organic 17 lies with the global small holders, often uncertified but doing 18 the hard work in the dirt, who survive once we've heard the Board today. And while we have to focus on the economic gain 19 in the United States, and not lose our seat in the game of 20 21 musical chairs of the U.S. economy, we can't overlook that the 22 global organic quality standards are richer and more meaningful 23 than what USDA offers.

24 So in closing, the global organic community continues 25 to move forward on social, political, and ecological issues far broader than what we contemplate or discuss here. And we need
 to keep an eye on those standards and that organic future as we
 do our work. Thank you.

CHAIR SMITH: Thanks for your comments, Alan. It
looks like you have a couple of questions. Mindee, please go
ahead.

7 BOARD MEMBER JEFFREY: Thanks, Alan. Appreciate your 8 perspective there. I'm going to diverge a little bit, if you 9 don't mind. Doing the work of talking to the consumer about what does organic mean, and what does non-GMO mean, and looking 10 11 at a recent survey, I still don't really feel comfortable with 12 the separation from the consumer perspective. And I was wondering in that light what do you think the consumer needs 13 from organic to like really separate us? What information do 14 they need to really separate organic from just non-GMO? 15

MR. LEWIS: I think the market has answered that question, Mindee, because the broad, let's call it an outbreak or a trend of autoimmune and digestive disease, and all these other novel conditions that kids, and elders, and regular people are suffering. That's all being tied back scientifically to the pesticide and toxic load in the environment.

As tried and true narratives, the counter noted, of course, is that synthetic biology and miracle medicine will also fix those maladies. And that's the danger that we're

1 facing right now, because those people have unlimited resources 2 and megaphones to make their case that they can fix all of the 3 problems that they've created.

4

CHAIR SMITH: Thanks, Alan. Nate, go ahead.

5 BOARD MEMBER POWELL-PALM: Alan, I appreciate just 6 how high-level your comments were. But I want to dive a little 7 bit down into logistics. We have heard of more the advocacy, 8 nonprofit groups about integrity and how we, you know, prop up 9 the markets, extend the market integrities. But these are big 10 questions. Like consolidation in grocery is billions and 11 billions of dollars. It's not any one standard.

And so as a retailer, I would love your hot take on how do we make retailers both able to communicate the value of organic, but also how do we get more retailers into the game, smaller retailers, more diverse retailers, retailers everywhere? How do we as a community partner in this revision in what retail can be?

18 MR. LEWIS: Thank you for the question, Nate. There 19 are no small retailers left. There are a few thousand natural, 20 independent retailers left that used to be the backbone of 21 organic production embedded in communities. So there is a 22 problem.

And then we have further consolidation. And I would point out without knowing what it means to point this out, Nate, that this community hasn't chimed in and say Kroger,

Albertson's, and Safeway combining to further consolidate retail, that's not a good thing for organic. There is no commitment to organic. There is a commitment to synthetic, highly-processed, monoculture, extract the GMO agriculture by those companies.

6 So we're not even in the game, I would -- I would 7 say. I fought long and hard at the state and national level 8 to, to keep Kroger in its place. But I hope that kind of 9 answers your question. We're not fighting the right battle 10 sometimes.

11BOARD MEMBER POWELL-PALM: If I could just follow12just a second, Kyla. How do we get into the game, Alan?

MR. LEWIS: Well, you're familiar with INFRA, Independent Natural Food Retailers Association, and SEMPA down in the southeast. I mean they are trying to court and get the small independents to survive. The small independents are the backbone of this philosophy that cling to clean environment, ways to clean house. But we're in an economy that is not allowing those small retailers to survive.

20 BOARD MEMBER POWELL-PALM: So pure logistics. Do we 21 ask INFRA to get on in this room? Do we chime in from other 22 comments with Kroger? I mean what should this community do? 23 MR. LEWIS: Shop at the stores, for one. Work in your local community with those small, independent retailers. 24 See if other small retailers can be created and supported. 25

They will buy organic and they will create a market for it.
 Kroger will hang up 20 signs showing farmers who supposedly are
 local producers. And you talk to those farmers and they say
 Kroger hasn't bought from me for 10 years.

5 So there is a partnership that needs to be developed. 6 And there's trust that needs to develop. And there's economic 7 co-dependency that need to be developed. Community comes from 8 this tradition of the co-ops, the independent retailers. But 9 they're dropping like flies, worse than flies. They're 10 dropping like flies on DDT in the '50s.

And there's only a few thousand left. There used to be 10,000 and before that 100,000. So we've allowed this consolidation to gatekeep us organic small producers out of the market.

15

BOARD MEMBER POWELL-PALM: I'll yield over to Logan.

16 BOARD MEMBER PETREY: Okay, thank you. I mean I 17 agree with, with what you are saying. I want to say that I 18 don't think it's just unique to organic growers. I think conventional growers suffer the same problem with the 19 consolidation of retailers. And as small farmers are trying to 20 -- both organic and conventional trying to, you know, perform 21 22 and not to be taken advantage of and that.

And so it is, it is hard to compete and to stay in the game when you're doing that. And so that's more of just a comment. It's not just for organic. It's also for, for all small farmers, whether they're conventional or organic. And so, yes, supporting the local retailer, that would be a great move, you know, to get back from the corporatism that we have and moving back to smaller. I agree with you.

5 MR. LEWIS: Yeah, thank you for making that point. 6 There is no middle farmer right now. They are either a small 7 holder or you are up in the 1,000 to 10,000 acre level. 8 There's nothing left in the middle.

9 CHAIR SMITH: Thanks for your comments, Alan. Okay. We have reached our scheduled break time. So I am going to 10 11 circle back around to see if we have some folks. I am looking 12 for Matthew Fitzgerald, Grant Marcuccio, Michael Deakin, and Sorry, I can't see your -- my thing is in front 13 Kline Njoume. I'm sorry. Nate, who --14 of your name.

15

MR. DEAKIN: Michael Deakin.

16 CHAIR SMITH: Thank you. Sorry. The bar at the17 bottom was like covering your name.

18 MR. DEAKIN: Oh, that's okay.

19 CHAIR SMITH: Okay, great. Michael Deakin. If you 20 could just, yeah, state your name and affiliation, and then you 21 can get started.

22 MR. DEAKIN: Sure, yeah. And thanks for circling 23 back for me. My name is Michael Deakin. And I'm an organic 24 producer. My wife and I farm on 3,000 acres in North Central 25 Montanna. I'm a fourth generation farmer. I grew up farming

down in Northern Utah. The family farm that I ran down there was certified organic in '94. And we moved up here about five years ago with our two kids. And we're running the farm here and loving it.

5 I just wanted to talk briefly about the overlap between NRCS programs and the National Organic Program. And I 6 7 realized as a farmer, I read the stuff coming out from the 8 national level on the new NRCS organic program, specifically the organic -- EQIP organic initiative and the EQIP organic 9 transitions initiative. And I get really excited about it, and 10 11 I'm excited that people are talking about it, and there's funding available. 12

But I feel like there is somewhat of a disconnect 13 between what the national level has set aside and what we 14 actually get to see when we go to our local county offices. 15 16 And my worry is that everyone is excited about it, the farmers, 17 the people at the national level, and the local offices are 18 willing to help. But my worry is at the end of the program, specifically with the, the new organic transitions initiative, 19 that it'll come back that people weren't interested. 20

And the issues that we're running into are that, one, with the organic transitions initiative there's -- there hasn't been enough outreach at the local level for the farmers to know what's going on. So first I would go in and I'd ask about this at my local office. And they didn't know, they didn't know,

and then by the time they really have the information, the
 application period had already passed.

3 And then, two, with the organic transitions 4 initiative, there's only certain practices that can be applied 5 for through that initiative. And the main one that is touted and, and really the purpose of the program is the 823 organic б The issue with 823 organic management is that it 7 management. 8 works great back in the mid-west or maybe in an irrigated setting. But for the majority of the farmers here in North 9 Central Montana, it's a dry land environment. 10

We only get 11, 12 inches of rainfall in a year. And we can do the objectives of 823 organic management. We can do cover cropping. We can do keeping living roots in the soil. But it's almost impossible to actually follow as the -- as the practice has been set out. So the worry is that we'll get people excited about doing practice 823 and they won't be able to actually be successful in doing that.

And then just having additional support after the transition with increased funding for the EQIP initiative. In Montana, we only have \$200,000 for the entire state for the year, for the EQIP initiative. So there's just not enough money there to really do anything. Thanks.

CHAIR SMITH: Yeah, thanks for your comments,
Michael. Anybody have a question? Oh, I see Nate has a
question for you. Go ahead, Nate.

BOARD MEMBER POWELL-PALM: Thanks so much for your comments, Michael. I appreciate you taking time to be here, today. Did I hear you right, you're farming in North Central Montana and it's working.

MR. DEAKIN: Yeah.

6 BOARD MEMBER POWELL-PALM: And you're raising food 7 that everybody wants. And so it sounds like we can do organics 8 in Montana, but 823 isn't really thinking about it in a context 9 base. The way 823 was written didn't think about how organic 10 looks different in different places.

11

5

MR. DEAKIN: Exactly.

BOARD MEMBER POWELL-PALM: If I hear you right, we need to be trying to get NRCS to maybe learn a little bit more about how organic works in these places that aren't necessarily Iowa or Pennsylvania.

Yeah, exactly. And I think it's when 16 MR. DEAKIN: 17 you read through the practice, you can see the intent behind 18 it. They want to increase the amount of living roots in the soil through cover cropping, through crop diversity. We can do 19 all that stuff. But just the specifics of practice 823 such as 20 growing cover crops to get one ton of dry matter above-ground 21 22 biomass in a year, that's just not something we have the 23 growing season or the rainfall to actually produce.

24 So if someone -- they could grow a cover crop, but 25 they can't be successful by following what practice 823 1 outlines.

2 BOARD MEMBER POWELL-PALM: If I might follow-up with 3 one quick question, Kyla. When you, you mentioned going into 4 your office and not having an idea as to what 823 was. 5 Generally, do you feel like NRCS, we just need to train more NRCS folks about organic to get it so that folks on the ground б 7 making these program education outreach and decisions have a better grasp or do you feel like their office knows what 8 9 organic is? I'm sorry if I cut out there. Did you hear me, 10 Michael?

11 Oh, you were -- sorry, I thought you MR. DEAKIN: 12 were talking to -- yeah. No, I think that they -- by and large 13 they are willing to help and they understand organic. However, I feel like their hands are tied based on the programs that are 14 15 being handed down to them. I, I think they could use -- what 16 they need is a program that can actually be implemented 17 successfully in Montana. And then they need information about 18 how to actually implement that program is what I would say. BOARD MEMBER POWELL-PALM: Thank you so much. 19 20 CHAIR SMITH: Hang tight here, Michael. Amy has a question for you. Please, go ahead, Amy. 21 22 VICE CHAIR BRUCH: Michael, thank you for joining us

today. Thanks for bringing up the EQIP 823. That's a really important program and we need to make sure we can have that executed at the -- at the state level and the farmer level so producers can really benefit from that program. And I just
 want to mention one comment about the program.

First, it's pretty transformational. It delivers hundreds of dollars an acre benefit to producers that are transitioning. And then when you look at the, the cost share program, that delivers about \$750 an operation. So this 823 is something and I'm speaking to everybody on the call here, we need help to get this in the hands of producers.

9 But just a quick question with it. Do you know of 10 any producers that were awarded an EQIP 823, just awarded the 11 opportunity to put that in action? Do you know of anybody?

MR. DEAKIN: I do not. And actually when I went into my local office and asked about it, the soil conservationist there said, you know, we've kind of been told that we, we should discourage people from applying for 823 because we don't believe that it's possible to actually successful follow in Montana. That might be different in other places. But I don't know of anybody.

I would be interested in it. I know other people that are interested in it, when you look at the overview of it. But when you get down into the specifics, I, I don't think it's possible to actually follow the 823 as it's written right now in Montana.

VICE CHAIR BRUCH: Okay. Thank you for that feedback
Michael, appreciate it. More work to be done there.

CHAIR SMITH: Thanks so much for your comments today,
 Michael. Okay. We have reached our break time, you all. So
 I'm going to do one last call for Matthew Fitzgerald, Grant
 Marcuccio, and Kline Njoume.

5 And now we will take a break and we will come back at 6 10 after. And we will start with Mark Kastel, then Rebekah 7 Weber, and then Jay Feldman. And we are like right on 8 schedule. So back at 10 after. See you all soon.

9 (Off the record from 12:54 p.m. to 1:10 p.m.)
10 CHAIR SMITH: Okay, welcome back, everybody. I have
11 10 after. And I hope everybody got a snack and a walkabout.
12 We are going to resume with Mark Kastel. Then we have Rebekah
13 Weber and then Jay Feldman. Mark, you can state your name and
14 affiliation, and get, get started.

15 MR. KASTEL: Thank you very much. My name is Mark 16 Kastel. I'm the Executive Director of OrganicEye. We are 17 based in La Farge, Wisconsin. I wish, like members of 18 Congress, the NOSB members were required to take an oath to protect and defend the spirit and letter of the laws governing 19 organics. I'm going to give each and every one of you the 20 21 benefit of the doubt that that is your goal, placing it above 22 corporate profit.

Celery powder. The use of celery powder is a synthetic nitrogen delivery system based on how it's bred, how it's grown, how it's processed. This workaround is intended to deliver the same dangerous compound used as a preservative,
 albeit with a more innocuous name.

The answer to concerns by consumers, by some organizations is to develop a certified organic version of celery powder. How incredibly disingenuous. If research is successful, and I don't know any professionals who believe that it will be due to the copious amounts of nitrogen required, this will equate to developing a certified organic carcinogen.

9 According to the Agency for Toxic Substances and Disease Registry, nitrates are in celery powder, react with 10 11 amino acids in the digestive system to create dichromates 12 (phonetic) reportedly cause non-Hodgkin's lymphoma, cancers of 13 the esophagus, larynx, stomach, bladder, colon, prostate, thyroid. Do you think that sounds like a material that would 14 15 comply with the law requiring approved substances not be deleterious to human health? 16

The International Agency for Research on Cancer, an arm of the World Health Organization, assessed the risk of nitrates in processed meats and classified them as 2A probably carcinogens. The body states that in addition to being a likely carcinogen, celery powder may contain even more nitrates than foods preserved with synthetically manufactured versions of the same preservatives.

I ask this body to err on the side of caution by reviewing the citations in our written comments, including 80

statements from Consumer Reports and the American Cancer
 Society before siding with industry lobbyists. In closing, we
 have certifiers violating the law by accepting hundreds of
 thousands of dollars in payments over and above certification
 fees from their clients. Some certifiers here today to lobby
 you on behalf of their clients.

7 We have unregulated material review organizations 8 where are literally 99 percent of their revenues come from 9 commercial entities with interest in materials. It's 10 imperative that this body act impartially to protect the 11 integrity of the organic label and all stakeholders including 12 farmers, ethical business people, and importantly consumers. 13 Thank you very much.

14 CHAIR SMITH: Thanks, Mark. Any questions for Mark?15 I don't see any. Thanks for your comments today.

16

MR. KASTEL: Thank you.

17 CHAIR SMITH: Up next we have Rebekah Weber. On 18 deck, we have Jay Feldman and then Dan Langager. Don't forget 19 to state your name and affiliation, then you can get started.

MS. WEBER: Hi, can you hear me? I just want to make sure my mike is working. Perfect. Good afternoon. My name is Rebekah Weber. I am the Policy Director at California Certified Organic Farmers, CCOF. Thank you so much for the opportunity to comment.

25

I'd like to focus today on the critical issue or

organic farm viability. In our comment on organic food system capacity constraints, CCOF noted that we have seen a net loss of certified farms over the last couple of years. At the same time, the State of California is defining the term regenerative agriculture, which presents both a threat and an opportunity for organic farmers.

With this definition, the State will be channeling investments such as direct incentives to farmers and potentially establishing regenerative procurement targets, a critical market opportunity for farmers. This represents an opportunity for farmers to have a stable market of providing food to schools, institutions, even correctional facilities here in the state of California.

The State of California so far has expressed an interest in a broad definition of regenerative, an all-inclusive tent. And while we support all farmers having access to resources, we are concerned that an overly broad definition of regenerative is meaningless. There, there won't be the integrity behind the term.

And I'm bringing this to your attention today because CCOF believes that the repercussions of a weak definition of regenerative in the State of California are widespread. Organic farmers should not have to compete in a market where regenerative farmers are subsidized by the State, but are not held to the same high bar.

1 I ask that organic sector come together and share 2 with the State of California that regeneration starts with 3 I'm here to share that there is an ongoing organic. 4 opportunity in the State to provide comments and I would 5 welcome stakeholders, NOSB, those across California and beyond б to weigh-in to this process. Thank you so much. 7 CHAIR SMITH: Thanks, Rebekah, for your comments. It 8 looks like you have a question from Nate. Nate, go ahead. 9 BOARD MEMBER POWELL-PALM: Hey, Rebekah, thank you for your comments. Can you send the shell, all the details for 10 11 how we weigh-in on that process and contribute? 12 I can absolutely do that. MS. WEBER: Yes. Thank 13 you. 14 BOARD MEMBER POWELL-PALM: Thank you. Appreciate it. Okay, thanks so much, Rebekah, and 15 CHAIR SMITH: 16 thanks for highlighting that for us. Next up, we have Jay 17 Feldman, and Dan Langager, and then Courtney Lorenz. Go ahead, 18 Jay. MR. FELDMAN: Hi, I'm Jake Feldman, Executive 19 Director, Beyond Pesticides, and former NOSB member. 20 The NOSB 21 was created to play a leadership role in bringing the views of 22 organic consumers and producers, and science-based thinking to 23 bear on USDA, not the reverse. The NOSB therefore is critical to a sustainable future which must be in sync with nature. 24 To this point, we support the notion that organic 25

1 must be transformational with its practices and allowed 2 substances. In this context, the Board has before it critical 3 issues in the spirit of continuous improvement that must meet 4 the existential health, biodiversity, and climate challenges of 5 our time.

6 Some high priority issues for the meeting would, one, 7 reject the petition to allow unspecified compostable materials 8 in compost allowed in organic production. Synthetic substances 9 in these materials could introduce hazardous contaminates, like 10 PFAS and microplastics. Don't allow organic to get dragged 11 into these escalating crises.

Two, get nonylphenol ethoxylates out of organic. Organic must lead on eliminating surfactants or complexing agents containing nonylphenols and nonylphenol ethoxylates, which are strong endocrine disrupters with adverse effects on organ systems and multigenerational effects. This is where an annotation is needed for iodine.

Three, ensure the quality of the science on which NOSB decisions are made. The sunset and petition process must not allow the listing of substances without sufficient scientific information. We support the change to the policies and procedures manual to only allow recommendations with valid scientific information and materials impact on the environment, human health, and is compatibility with organic.

25

Four, eliminate nonorganic ingredients in processed

organic foods as part of the sunset review. The materials on 2 205.606 up for sunset review this year are made from 3 agricultural products that can be supplied organically and, 4 thus, should be taken off the National List.

5 Now issues critical to organics leadership position. 6 Ensure that so-called inert ingredients in the products and 7 organic production undergo NOSB review. The NOSB has passed 8 repeated recommendations, as you know, instructing NOP to 9 replace a generic listing through inerts that may be 10 biologically chemically active under EPA's former List 3(4)(a) 11 and (4)(b), with specific substances approved for use.

Make elimination of plastics in organic a goal and a research priority. Microplastic particles are found in human -- in human lungs, blood, feces, breast milk, and placenta. Keep organic in the forefront. Thank you for our service on the NOSB.

17 CHAIR SMITH: Thanks for your comments, Jay. Any 18 questions for Jay? I think I have one. I think I recall seeing in BP's comments about annotating, and I would have to 19 go back and look at my notes, but anyway annotating a specific 20 21 substance as only allowing non-synthetics. And I believe that 22 is something that is like on the non-synthetic list of 605. 23 And so I was wondering if that would not just be redundant. But I'm going to go back and check my notes. But I don't know 24 if you recall that and could speak to that at all? 25

1 MR. FELDMAN: Yeah. It -- yeah, I don't recall that. 2 CHAIR SMITH: It had to do with calcium chloride. 3 But normally we are, yeah, we're MR. FELDMAN: 4 seeking to obviously differentiate some of these products. But 5 as you say, 605 should be non-synthetic. So I'd have to go back and check that. б 7 CHAIR SMITH: Yeah. I might have to follow-up with 8 you about that. 9 MR. FELDMAN: Okay. 10 CHAIR SMITH: But, anyway, I did make note about But, anyway --11 that. 12 MR. FELDMAN: Thank you. -- go ahead, Nate. 13 CHAIR SMITH: BOARD MEMBER POWELL-PALM: I think it might have been 14 around citric acid. But is that not true? 15 I think it was -- I think it was 16 CHAIR SMITH: calcium chloride is like where I made the note. But anyway, 17 18 I'm going to --Okay. I'm happy to get back to you on MR. FELDMAN: 19 20 that. 21 Okay. Well, yeah, I can -- I can CHAIR SMITH: 22 follow-up. Thank you so much. 23 MR. FELDMAN: Thank you. 24 CHAIR SMITH: Oh, now I lost my list. Okay. Any 25 other questions for Jay? Sorry. I didn't see any other hands,

but just to make, make sure I'm not moving too quickly. Okay,
 thanks for your comments.

3

MR. FELDMAN: Thank you. Thanks a lot.

CHAIR SMITH: Okay. Next up we have Dan Langager.
And then after that it's Courtney Lorenz and then Derrick
Nyirenda. Don't forget to state your name and affiliation, and
then you can go ahead and get started, Dan.

8 MR. LANGAGER: All right, great. Thanks, Kyla. 9 Thanks, everybody. My name is Dan Langager and I'm with the 10 Northwest Horticultural Council. We represent the growers, 11 packers, and shippers of apples, pears, and sweet cherries in 12 the Pacific Northwest, who produce the majority of our 13 country's organic palm fruit.

Id like to direct you to our extensive written comments for the Pacific Northwest tree fruit industry's analysis of the sunset material before the Board, as well as our feedback on the subcommittee discussion related to inert ingredients and compost production.

We appreciate the challenges in updating the regulation of both inerts and compost in organic agriculture. We encourage the Board to take a deliberative scientific approach to any changes, while not putting the availability of these products that are critical to organic food production at risk.

25

A reduction in the availability of compost supplies

or a rise in compost costs would be challenging for organic operations of all sizes. And it can force them to make tough decisions about the amendments they can afford for the year, which those decisions can really make the difference between staying in business or not during tough years.

6 In terms of the sunset materials under review this 7 year by the crops and handling subcommittees, I'd like to 8 underscore the importance of horticultural oils, pheromones, 9 hydrogen peroxide, potassium bicarbonate, magnesium sulfate, 10 and peracetic acid.

All organic tree fruit growers use horticultural oils and they consider it a critically important material. Oils used today have a lighter viscosity, which allows for a smaller application rate compared to products that were used in the provide. They provide a safe and consistent level of disease control at a low cost for growers and low impact to the environment.

18 Pheromones. They are essential to organic and conventional tree fruit production to control pests that often 19 pose a significant threat like codling moth and leaf rollers. 20 21 We strongly support the continued listing of pheromones, as 22 their loss would be catastrophic for organic tree fruit 23 production. Pheromone-based mating disruption has high efficacy, and low toxicity to humans and natural pest enemies. 24 It has laid the foundation of apple and pear 25

integrated pest management programs and it enables growers to make fewer pesticide applications than would otherwise be necessary. And this ties back into the discussion on inert ingredients. They are essential to successful mating disruption and integrated pest management products.

And then finally on peracetic acid, it's widely used across the fresh produce industry as a sanitizer or disinfectant for equipment, and for water sanitation to reduce potential cross-contamination. All organic tree fruit packing facilities use PAA. It does not leave residue on the surface of the fruit. And it is by far the best option for organic approved no-rinse sanitizers.

I want to thank the Board members and NOP staff for your continuous hard work. And thank you so much for the opportunity today to provide comment from growers and packers directly to the NOSB.

17 CHAIR SMITH: Thanks so much for your comments, Dan.
18 Looks like you have a question from Brian. Brian, please, go
19 ahead.

20 BOARD MEMBER CALDWELL: Thanks, Dan. Quick question. 21 You know horticultural oils are, are, you know, petroleum based 22 oils. Have any of your growers experimented with vegetable 23 oils, you know, to do the same kind of purposes? 24 MR. LANGAGER: You know, not that I am aware of. 25 It's, it's certainly possible that they tried. But when -- in

working with growers to put our comments together, that was not
 brought up. But I can ask around some more.

BOARD MEMBER CALDWELL: Great, thanks.

CHAIR SMITH: Go ahead, Nate.

5 SECRETARY LEWIS: Hey, Dan. Good to see you. Hope 6 we'll see you in person next week. I'm not sure. If you can 7 make it out, great. I had a question for you on compost.

8

3

4

MR. LANGAGER: Yeah.

9 SECRETARY LEWIS: One of the things that the subcommittee is working on and looking at is the carbon to 10 11 nitrogen ratio requirements in the standards. And we saw a 12 couple of commenters sort of home in on this issue that when you have really high C-to-N ratios, the compost, the finished 13 product is more of a mulch and potentially a good addition to 14 soil or organic matter, but not particularly beneficial from a 15 16 nutritive perspective, because it kind of ties up nitrogen and 17 that kind of thing.

Do you -- do you all have any thoughts on that particular issue, the C-to-N ratio component of it and whether it's, you know, just I know tree fruit growers look at the world differently than corn and bean growers do, right? So it's like it's important to get it all on the table as we evaluate that stuff.

24 MR. LANGAGER: Yeah, yeah, absolutely. I think it's 25 certainly something worth looking into. I think that the 1 compost manufacturers are ones that probably have a pretty 2 direct knowledge of, of how the different ratios lead to their 3 finished products. Tree fruit growers, like you said, they'll, 4 they'll use it either as an amendment or more as a mulch. I 5 think both are, are important uses for organic tree fruit 6 production.

We did not receive in terms of my work with our, our growers, you know, they didn't have a direct input in terms of the specific ratios. I think if it leads to the end product that meets the regulations and meets their needs, then, then that's something that they support.

12 CHAIR SMITH: Thanks much, Dan.

13 MR. LANGAGER: Thank you all.

14 CHAIR SMITH: Next up, I think -- I don't know, maybe 15 we don't have Courtney Lorenz. Courtney, are you there? What 16 about Derrick Nyirenda? Then up next is Adam Seitz. After 17 Adam is Andy Faeh and then Matt Keegan.

MS. ARSENAULT: Adam is on the line, Kyla.
CHAIR SMITH: Great. Hello, neighbor.

20 MR. SEITZ: Hello, hello. Good afternoon. My name 21 is Adam Seitz and I serve as a senior technical reviewer and 22 policy specialist for Quality Assurance International, an NSS 23 international company and a leading provider for organic 24 certification services worldwide. Check your local grocery and 25 without a doubt you'll find the QAI mark well-represented on

1 its shelves.

Thank you NOSB and NOP for your efforts and for the opportunity to comment. Please see our written comments detailing the use of sunset materials by QAI certified operations. It's worth noting that nearly every handler input up for sunset review is in use by a QAI certified operation.

7 Classification and excluded methods verification for 8 handling substances. Several of the handler substances subject 9 to the current sunset review include questions to stakeholders 10 regarding how certifiers verify classification requirements and 11 the prohibition on excluded methods. See our written comments 12 on this front.

But in summation, QAI urges the NOSB to review applicable sections and forms within the Accredited Certifiers Association best practices for common material review issues. QAI's practices on classification and excluded methods verification are consistent with these certifier best practices.

L-Malic acid. As noted in previous comments, QAI does not currently take a deep dive on L-Malic acid classification as is consistent with ACA best practices. QAI simply verifies that the substance is L-Malic acid and not DL or D-Malic acid.

Using current guidance from the NOP, we consider L-Malic acid produced via the two-step process with a synthetic fumaric acid precursor to be synthetic. To QAI, the synthetic fumaric acid is the starting substance in the context of NOP Guidance 5033.1 decision tree. This results in a synthetic classification for the L-Malic acid. While QAI supports relisting L-Malic acid at 605(a) for now, it should be added to 605(b) and subsequently removed from 605(a) to reflect the from typically used in organic products.

8 Nutrients, vitamins and minerals. There is not a lot of time to go over this, so check out our written comments. 9 In short, there is not complete consistency among certifiers 10 11 regarding what substances are permitted in organic products via the 205.605(b) nutrient, vitamin, and mineral inclusion. 12 This is largely due to the NOP's previous interpretation regarding 13 accessory nutrients, as acknowledged in the January 12, 2012 14 proposed rule and the continued allowance of the, quote, 15 "status quo," end quote, implemented by the subsequent 16 17 September 27, 2012 interim rule which remains in effect.

This status quo is the 2006 NOP interpretation that, quote, "The NOP determined that accessory nutrients that are nonagricultural are allowed in the production of products to be sold, labeled, or represented as organic under the NOP provided they are used in full compliance with Food and Drug Administration rules and regulations," end quote.

24 Regardless of some discrepancies on what nutrients 25 are permitted, 605(b) listing should -- we thank the NOSB for its work commitment and expertise, and for the opportunity to comment. Thank you.

3 CHAIR SMITH: Thanks so much, Adam. Allison has a 4 question for you, and then Nate, and then I have one as well. 5 So go ahead, Allison.

б BOARD MEMBER JOHNSON: Thank you. Thanks for your 7 comments, Adam. The nutrient, vitamins, and minerals, it cut 8 you off there at the end. This is a tricky one. I dug back 9 through the history that you just relayed and, you know, this listing has gone through a number of reviews, lots of ideas 10 11 about what to do with it, and then it just kind of sits there 12 because I think we haven't come up with a better way to do it.

I'm curious if you are aware of any materials that are coming in through that listing that are like either particularly important for handling operations or particularly questionable, and whether there is anywhere that we should put particular attention in, in scrutinizing this listing, and, and whether to keep it as is or try to parse it out.

MR. SEITZ: Yeah, appreciate the question. And it's 19 You know, technically, I think a lot of things could 20 tricky. 21 kind of squeeze in under the current status quo understanding. 22 I tried to relay in our comment, you know, we try to be 23 conservative in what we allow on that front. And typically, you know, looking at things that are identified in those 24 proposed rule and interim rules, because there is a whole lot 25

of metabolites that food processors would like to add for their 1 2 bioactive function in organic food products. 3 But, you know, we more or less --Did Adam just freeze or did I freeze? 4 CHAIR SMITH: 5 BOARD MEMBER JOHNSON: Adam froze. б (Pause.) 7 CHAIR SMITH: Yeah, we can follow-up with him offline 8 -- oh, he's back. 9 BOARD MEMBER JOHNSON: You're back. We lost you for a while, Adam. 10 11 Cell phone hot spot, sorry about that. MR. SEITZ: No problem. 12 BOARD MEMBER JOHNSON: I think we lost you at just after you like to use metabolites. 13 MR. SEITZ: Yes. There are a lot of things that I 14 15 think organic processors would like to use under, you know, 16 disguise of accessory nutrients and could potentially. But I 17 don't think -- I think certifiers are pretty savvy in not 18 letting that broader field of materials through under that. Things that are important, mostly the things that had 19 been petitioned -- or, I'm sorry, not necessarily petitioned, 20 21 but were reviewed via kind of what was supposed to be the 22 reshuffle of the listing and the individual listing of some of 23 the nutrients like say DHA. Some of the amino or some of the things that were to be used in infant formulas and such, 24 choline. Even some amino acids we see that, you know, when --25

we kind of have a tiered approach with these accessory nutrients, so, you know, we try to honor the NOSB recommendations on the individual nutrients. So like for DHA, we enforce what was the NOSB restriction that they had voted on.

For some things, especially where the votes were a little bit closer, you know, we may -- we're still conservative in the types of products we allow them to be in, you know, not every organic product, but things like sole source nutritional products where this product is the sole source of nutrition for some folks that have those needs, or medical foods essentially.

So, sorry, roundabout way to say most of the nutrients that are identified in that interim and proposed rule, I don't think there is really anything that's not detailed in those that folks are letting slip through under the guise of accessory nutrients. So nothing in addition to those that I would -- I think needs called out specifically.

BOARD MEMBER JOHNSON: Okay. That's really helpful,thank you.

20

MR. SEITZ: Yeah.

21 CHAIR SMITH: Thanks, Adam. Go ahead, Nate.
22 SECRETARY LEWIS: I had a question for you related to
23 the discussion around organic availability on 605 materials.
24 And I specifically called out citric acid, which is the sunset
25 material I'm managing. And I'm just trying to get folks'

thoughts on, to borrow a phrase from my colleague Mr. D'Amore,
 whether the juice is worth the squeeze.

3 You know, it takes a lot of resources to do 4 rulemaking. And while we want to push folks to choose the 5 organic option, just trying to weigh all those sort of things when we're dealing with something like citric acid. б There are 7 organic options available. I hear they are not functionally or 8 in quantities quite ready to be removing citric acid entirely from the list. 9

10 So, you know, does, does the commercial availability 11 move the needle? That's the first question. And like what 12 should we be thinking about when considering the potential to 13 add that annotation?

14 MR. SEITZ: Yeah. I think commercial availability in general can move the needle. I don't know necessarily that it 15 16 should be applied to citric acid. Just I should have my full 17 written comments up so I can reference them. But a lot of 18 folks use citric acid, a very commonly used material. There is not seemingly a lot of organic citric acid on the marketplace. 19 I can't really speak to whether or not now would an appropriate 20 21 time to try to move that needle or not. But don't know if it's 22 worth the squeeze in this instance.

CHAIR SMITH: Adam, I had a question around the proposed TR template. And just with your -- the information that you provided based on QAIs and other certifiers following ACA best practices, and wondering whether or not, and I know ACA was a little bit -- didn't have the resources to put all in their working group, and so I know they're planning to provide additional comments.

5 So, anyway, I just wanted to know from your 6 perspective if having those additional questions around 7 excluded methods, ancillaries, nanoparticles would be welcomed 8 additional information for certifiers. Anyway, just what's 9 your take?

I do think it's helpful information. 10 MR. SEITZ: I 11 think that, you know, in those ACA best practices that, you 12 know, we try to use some risk-based approaches in assessing excluded methods, the prohibition on excluded methods. 13 So, you know, a lot of folks that do material review have a good idea 14 of when excluded methods might be used just based on the nature 15 16 of the technologies.

17 That said, it's good -- would be helpful, I think, to 18 include that content in the TRs to help calibrate, you know, the full community. Like, you know, we're -- we try to be 19 experts in a lot of things. But it's helpful when those deep 20 21 dives are taken to say, hey, in some cases, you know, this is 22 something to look at. We kind of have an idea, you know, any 23 time that an organism is utilized or there's a fermentation, you know, hey, let's, let's keep an eye out for excluded 24 methods use. 25

But there are advances in what you could or may not consider excluded methods every day, and technology advances, and advances, and advances. So helpful to stay atop of that, I think. And on nanotech, that's complicated for sure.

CHAIR SMITH: Yes.

MR. SEITZ: Yeah. I think it would be helpful to б 7 include that. But I think there is also maybe confusion on 8 exactly what is not permitted or is permitted on the engineer nanotech front and how deep certifiers really go on that. 9 So I think it would be information that is a bad idea to include, 10 11 but if it is included I think maybe further discussions around 12 engineered nanotechnology as a whole. And how that gets 13 verified, does it get verified would be warranted.

14 CHAIR SMITH: Okay. Yep, fair point. Thanks for
15 your comments. And next up we have Andy Faeh, and then Matt
16 Keegan, and then Mike Appel.

17

5

MR. FAEH: Am I on?

18 CHAIR SMITH: You are, yep, if you can just state19 your name and affiliation, and then get started.

20 MR. FAEH: Okay. I am curious about that nanotech. 21 I was just exposed to that here a week ago. And so is that --22 I heard that there was -- this was something to do with sugars, 23 like something that was supposed to be a potential insect 24 present that had nanotechnology. Are you guys aware of that? 25 I guess I don't -- 1 CHAIR SMITH: I don't -- I don't know. But if you 2 have your prepared comments, we are willing to -- we're happy 3 to hear them. And then maybe someone can circle back around 4 with your questions related to nanotech, but in a different --5 in a different forum. So, yeah, name and affiliation, and then 6 you can get started. Thanks.

7 MR. FAEH: My name is Andy Faeh. Me and my wife, who 8 are Asian, our son Logan, farm about 1,400 acres all of which are organic here in South Central Nebraska. 9 We utilize a considerable amount of cover crops in our operation. We do a 10 11 variety of different grains including wheat, you know, peas, 12 you know, field corn for, for human consumption, popcorn, soybeans, and blue corn. We, through the years, have grown a 13 lot of no till corn, which is wonderful for the soil, as well. 14

Something I am curious about is what is the continued education of the public concerning the benefits of organic farming on, on the environment and the soil. An initial concern of mine when I started organic was the extra tillage that was involved and what I would do for soil or to the soil.

However, through my practices which have been -- or our practices which have been quite a bit of tillage, but also lots of cover cropping and things, our -- at the risk of doing some farm talk here, just the benefits to the soil, organic, organic matter in the soil, our, our tests have shown -overall the different soil tests have increased organic matter

1 of anywhere from 60 to 75 percent on every farm that we've 2 changed from chemical farming, which is all our farms, to 3 organic farming.

So I think it's important. I don't know if those 4 5 kind of -- that kind of information is made available to the public. A benefit of organic farming to the earth, to the б soil, itself, is, because, because the chemical farming, I 7 8 think it's largely misunderstood how detrimental it is to the soil as far as actually taking life out of the soil. So just I 9 don't know, that's just one thing that I'm concerned about as 10 11 far as people not understanding how detrimental chemical 12 farming is on the soil, which in the big picture can affect the 13 food chain drastically down the road.

14 But another thing, organic integrity domestically and globally, through more testing I believe is -- it's probably 15 16 already been spoken of here. But the consumer can purchase 17 organic products with confidence that they are, as they are 18 told what is organic is indeed 100 percent organic. We want our consumers to trust the organic label as they want to live 19 healthier lives. And when the consumer hears of these large 20 21 breaches of nonorganic products, grains coming into the state 22 being pulled into the organic market, it completely undermines 23 those of us who are taking great pains to produce the best quality organic grains and products that we possibly can. 24 Thanks for your comments, Andy. 25 CHAIR SMITH: It

1 looks like we have a couple of questions from some members 2 for you. 3 MR. FAEH: Yes. CHAIR SMITH: So if you could hang tight on the line. 4 5 First, I have Brian, and then Amy, and then Nate. So Brian, б please go ahead. 7 BOARD MEMBER CALDWELL: Okay. Thanks, Andy. Just to 8 be clear --9 MR. FAEH: Yeah. BOARD MEMBER CALDWELL: -- when you said that you 10 11 used to do a no till, you were -- that was when you were 12 conventional you did no till or you did the no till organic? MR. FAEH: No. It was no till organic. 13 It was completely tillage with the -- with the conventional, all 14 tillage, yeah. 15 16 BOARD MEMBER CALDWELL: So, so you were implementing 17 some no till organic on a large scale? 18 MR. FAEH: We still are. We still do. BOARD MEMBER CALDWELL: Yeah. Well, I would have to 19 20 say two things, you know, the more you can spread that word around to, to your neighbors and extension people at NRCS, the 21 22 better off we'll be. I believe that also the information you 23 have about increasing soil organic matter under organic management is, is pretty, pretty common experience that people 24 25 have. And again the more we can share that, that information

1 the better.

2	When I used to just a quick aside comment. When I
3	used to do research at Cornell, we took over a piece of ground
4	that had been sort of, you know, pretty much high level
5	management conventional no till. And then after about 10 years
6	of organic management, we definitely got increases in the in
7	the organic matter content there, as well. So that was
8	reinforcing what you said. So anyways, thanks a lot. And
9	spread the word.
10	MR. FAEH: You bet.
11	CHAIR SMITH: Amy, please, go ahead.
12	VICE CHAIR BRUCH: Yeah. Andy, thanks for your time
13	here today and joining us. Thanks for your support on the
14	integrity initiatives that the Board is working on, as well as
15	just highlighting some of your real farm research. We have
16	kind of two work agenda items on the Board. One is research
17	priorities and another one is just looking at building
18	transition support.
19	And I was just wondering what's your best method to
20	learn about new practices and deploy them. I know you're a big
21	adopter of trying to move the needle on soil health. So I was
22	just wondering what your best methods are to learn about the
23	new, new things to try on your farm.
24	MR. FAEH: Well, I basically, I do a lot of You
25	Tube stuff. I mean I when I when we started really

utilizing and just, Amy, I know you're part of the group that we have locally here in Nebraska, just the practices and, and different things that other organic, and there's, there's broader ones throughout the states, I know, that organic farmers are really good about getting the word out and just sharing knowledge, and successes and failures of different things they've tried.

8 And just so I utilize all those things as far as people's experiences and, and just the help that other organic 9 farmers are to me. So that would be you included, of course. 10 11 And I really appreciate everybody, too. This is like I don't 12 know how you're doing this. This is like I've been on for, I don't know 45 minutes or so, but this is like information 13 overload here. I don't know how you guys are processing all 14 15 that stuff.

VICE CHAIR BRUCH: Thanks for joining us, Andy.
Really appreciate your voice in this process.

CHAIR SMITH: Nate, please, go ahead.
 MR. FAEH: And thank you guys for all the work you're
 doing. It's appreciated.

21 CHAIR SMITH: And hang tight here, Andy. You've got22 a couple more questions.

23 MR. FAEH: Yeah.

24 CHAIR SMITH: So, Nate, please, go ahead.

25 BOARD MEMBER POWELL-PALM: Yeah, thank you so much,

Andy, for joining us today. Really appreciate your 1 2 perspective. When you think about getting the word out about 3 organics, I don't know where you live if there is a lot of opportunity to buy organics. But when talking to your farming 4 5 neighbors or even just your fellow humans who are consumers, what do you think are the, the biggest takeaways that we should б 7 be bragging about either environmentally or from a health point 8 of view for the food, to get the word out about organics and 9 grow this thing.

MR. FAEH: Well, there's, there's somebody commented 10 11 earlier just about the detriment. I hate to be -- go on the 12 negative side, but the detriment of using chemical and poisoning the soil, it's just -- I think it's more, and I 13 don't -- I, it's more detrimental than we realize, I think, to 14 15 just, just the ecosystem. And I'm not a big preacher or 16 proponent of that. But I know, I just know personally on our 17 farm how different it is not using chemicals. And so I guess 18 I'm not answering your question here.

BOARD MEMBER POWELL-PALM: No, no, you are. I, I really appreciate it, yeah. I won't keep you on the hook for it. But I think, you know, calling a spade a spade. I hear that and I really appreciate it. So thank you.

23 MR. FAEH: Well, you are -- I mean you're speaking 24 against the goes here, it's, it's been said, because I know, I 25 know that such a huge industry, we're not going to -- not going

1 to reverse that overnight or I don't know if we ever will 2 reverse it as far as the chemical use.

But it sure is -- and I tell people that when I 3 4 started farming organically, I know for a fact it's healthier 5 for me because I don't have to handle toxic things. And it's б healthier for my family because all that -- all those exposures 7 to people who work on the farm, I mean they are definitely very 8 unhealthy for, for the people that actually work with the chemicals. And, and I don't know what the science is about 9 what is actually -- how much that infiltrates into the product, 10 11 but it has to some.

BOARD MEMBER POWELL-PALM: Appreciate that, thank you.

14 CHAIR SMITH: Thanks for showing up today, Andy. We15 really appreciate your comments.

16 MR. FAEH: Yeah. Thank you for all, all the work you17 do. I appreciate it.

18 CHAIR SMITH: Yeah. Yeah, you bet. That's great.
19 Okay. Next up we have Matt Keegan, then Mike Appel, then Sydni
20 Arnone. Matt?

21 MR. KEEGAN: Hello, this is Matt Keegan. How are 22 you? 23 CHAIR SMITH: Yeah, doing well. Just state your name 24 and affiliation, and then you can get started.

MR. KEEGAN: Hi. Sure, Matt Keegan, Keegan

25

Commodities. I've been a market participant in this organic
 space for close to 20 years. I've largely spent my career
 focusing on just global supply of grain commodities for animal
 feed.

5 So my -- what I'd like to just address is fraud, 6 fraud prevention. You know, I hear a lot on the call about 7 people -- basically, the gist is we want a level playing field. 8 And I hear that whether it's the small grocers or the smaller 9 farmers, or whatever that is, it's across the board. Our 10 objective is the same. We want a level playing field and we 11 want to ensure the integrity of what we're supplying.

12 It's critical. Because at the end of the day, our customers are the consumers. And if the consumers don't have 13 faith in our supply chain, then we have a problem. 14 And currently I think we're all trying to accomplish similar 15 16 things. But unfortunately I feel like we're all on the boat 17 rowing in a different direction. And I -- and I just feel very strongly that in a lot of ways we're kind of stepping over 18 dollars to pick up dimes. 19

And, you know, we talk about imports and imports get a bad rap. And, frankly, they, they deserve a lot of it. But some of the largest fraud that's been committed in the U.S. has actually been from domestic growers and domestic opportunities. There was one recently in Northern California, a feed mill that finally had its certificate pulled after knowingly committing

1 fraud for decades. The entire marketplace knew it. So lack of 2 enforcement there. Finally, something was done. And they're 3 still unpeeling the onion on this.

But my point about this is organic is a process based 4 5 We all know that. So you have situations where you system. have wind drift, or some cross-contamination, and the system is б 7 to allow for some of that. But the system is not to allow for 8 blending solvent extracted meal or expeller meal. And we're seeing that at a tremendous rate coming out of these African 9 countries. 10

The Organic Soy Processors Association was right in what they're trying to accomplish with how they targeted India and tried to create a level playing field. But the end game and the outcome was largely about fraudulent behavior. And that's really what we're talking about.

16 So I feel strongly we need to put some enforcement in 17 place at the courts. It's so simple. We have the precedence 18 for it. We just sample when the cargo arrives. The amount of cargo that we're seeing that has solvent extracted soybean meal 19 in it across the industry is very high. It's better than 50 20 21 percent. The volumes, the export out of these countries exceed 22 what they are growing. It exceeds capacity. And there's just 23 -- I, I think we're just stepping over dollars to pick up dimes, making this too complicated. 24

25

Test at the ports. Put it back on the importer.

This has been done before. As an importer, myself, I'm asking for it. So let's put it in place. It's, it's not -- it's not terribly difficult. And I feel very strongly about it. So that's all I have for you, today.

5 CHAIR SMITH: Thanks so much. We forgot to start the 6 timer, so anyway it's been around three minutes. Amy has a 7 question for you. Amy, please go ahead.

8 VICE CHAIR BRUCH: Yeah. Matt, thanks for your time today and commenting on our process, really appreciate it. 9 You had mentioned potentially up to 50 percent of products that 10 11 we're receiving maybe from certain countries test high on 12 residues. What's your -- how do you make that statement? Are you aware of some testing that's been done? And then 13 secondarily as an importer, how do you verify integrity with 14 15 the products you're bringing in?

MR. KEEGAN: 16 Well, so three parts. So first part, 17 for my own testing, from getting samples across the United 18 States, from various supply, varies entities, and testing it, myself. So I have that. And I mean even so far as I have had 19 situations where I've received samples that have been sent 20 21 directly from a supplier to an accredited lab, the supply chain 22 of the sample being sent from the supplier to the lab, I, I 23 touched no part of it. It went from them to the lab. The lab They show positive for solvents. 24 results come.

25

And what you're seeing out of these countries, you're

seeing methanol and acetone are the predominant ones that you'll see. You won't seen hexane. And that was -- that data was sent to a certifier. And the certifier basically -- well, not basically. The certifier did nothing about it. So, so I have seen it through my own -- through my own testing. I've seen it through other entities. And so from my perspective, you know, this is a problem.

8 Now when you look at the SOE and you see some of 9 what's trying to be accomplished, many people have been doing a 10 lot of these things for years already. And I've always tested. 11 It's trust and verify. It's critical in what we do. I mean 12 without the integrity, none of us -- like this industry 13 collapses. So maintaining the integrity is, is super critical.

But today's marketplace, quality, price, service. 14 The customer wants all three. And the question is do you have 15 16 an organic cert and what's your price. And so, you know, price 17 is driving a lot of this. Now in fairness, today, there's, 18 there's an overabundance. You have the bird flu across the U.S. You have various issues that have led to more supply than 19 there is demand. That will kind of right itself. A large part 20 21 of the pricing in the marketplace today is related to that.

VICE CHAIR BRUCH: Thank you, Matt. Appreciate it.
MR. KEEGAN: Yeah, hopefully I answered your
question. I think I addressed it.
CHAIR SMITH: One more question for you here. Kim,

1 please, go ahead.

BOARD MEMBER HUSEMAN: Thank you, Kyla. Thank you,
Matt, for your comments today. Really appreciate your lens and
your voice to the market.

5

MR. KEEGAN: Thank you.

6 BOARD MEMBER HUSEMAN: A couple of questions I have. 7 One is CACS has a document out regarding the different 8 procedures and the testing policies that are in place today. I 9 don't know if you've had a chance to review those. Are there 10 any suggestions that you would have to those manuals that we 11 have the questions on? Your, your input would be valuable 12 there.

And then secondly, as we know sometimes changes takes time and is hard to, to really get across the finish line. What are some things that the market can do to self-regulate and how do you handle -- you say you have a positive result, how would you handle that as a market participant to help, you know, self-regulate this?

MR. KEEGAN: So I think if, if -- as far as the self-regulating, I think what we're seeing is a lot of end users asking for more transparency. Now the problem is it's not necessarily authentic. I would say there's -- and, and if I were to put a percentage on it, I don't know, maybe at 50/50 at best. But the, the intent of the end users with wanting the transparency, many it's for integrity, but many is so they can

understand the supply chain. And, and don't have the best
 intentions with that.

So, so there is concern I think amongst market participants and being -- and how transparent the many retailers, for example, want to be. They want to protect their supply chains. So, so I think there's, there's a little bit of a struggle with that. I think there's ways to, to address that. But it gets -- that starts to get a little complicated.

9 From my perspective, when we go back to early 2000s, 10 when we had the whole melamine issue, when the cargo came into 11 the U.S. it was immediately put on FDA hold. So cargo coming 12 from China, specifically soybean meal. And so the FDA would 13 put on hold and you'd get a nasty letter that said, hey, you 14 have to destroy this or send it back, or prove to us that it's 15 not tainted with melamine.

So you would have a lab come out, pull samples. 16 17 There was a process. It wasn't terribly complicated once you 18 got it figured out. Pretty straightforward. A third party lab would, would come. They would -- they would pull samples. 19 Those would be submitted. So the integrity of the samples was 20 21 maintained. Ultimately, the test reports were submitted to the 22 FDA. And then the FDA would either reject or release the 23 cargo.

24 So from my perspective, that process is -- has 25 already been implemented. It's in place. It requires no

investment by anybody other than the importers, which the importer should be testing this stuff anyway. So I feel pretty strongly about that. And I think it's pretty straightforward. So hopefully that answers your question.

5 BOARD MEMBER HUSEMAN: Thank you. It does. Just one 6 last quick follow-up. How long does it take? How long is your 7 cargo sitting stateside port for you to get your test results 8 before you release --

MR. KEEGAN: Here's how this -- here's how this 9 worked like with the melamine thing. And, you know, and 10 11 obviously we're talking about kind of two different things, 12 Melamine, it becomes like a food safety issue, right? too. Ι 13 have had the U.S. Senate ask me. I have sat there and spoke to them and they told me this. With organics, they said -- they 14 said, Matt, listen, we see this as an IP issue, not a food 15 16 safety issue. And that statement right there is the crux of a 17 lot of this with our government.

18 So when it comes to the integrity, because it's not food safety it falls under a little bit different path. Now 19 with that being said, to specifically answer your question, 20 21 with the soybean meal that was coming from China with the 22 melamine or with the melamine requirements, you could unload 23 the cargo in a warehouse. You could return containers, if that's how you were shipping the cargo, or if it was by vessel 24 it would go to a warehouse. And once the cargo was staged and 25

ready to be sampled, the sampler would come out and pull the 1 2 samples. You could pay expedite fees. So oftentimes I would 3 pay to expedite it so that I could get the cargo turned around 4 quicker.

5 So I'm -- this is days. I mean the reality of it is you can have these results within say five business days б 7 conservatively. Cargo comes in. Put it in a warehouse. Put 8 it in a bin. Put it somewhere. Test it. Validate it. Which 9 is what we should be doing before we feed it anyway. So that's why I say like everybody's, everybody is on the same boat. 10 We 11 all want the same things. But we just need to get everybody 12 rowing in the same direction. And let's just start with something very simple. And I think this is very simple. 13 14 BOARD MEMBER HUSEMAN: Thank you, Matt. I appreciate 15 your comments. 16

MR. KEEGAN: Sure.

17 Thanks, Matt, for being with us today. CHAIR SMITH: 18 MR. KEEGAN: Yeah, thank you.

Next up we have Mike Appel, then Sydni 19 CHAIR SMITH: Arnone, and then Johanna Phillips. Mike, if you could state 20 21 your name and affiliation, then you can get started.

22 MR. APPEL: Yeah. My name is Mike Appel, Three 23 Springs Farm in Oklahoma. I just wanted to thank the NSP Kind of having a little bit of a -- my, my wife was 24 members. 25 on the NOSB for several years, so I, I have an intimate

1 knowledge of what it takes to be on the Board and I thank you
2 for that. It's not easy, especially for the small scale
3 farmers on the Board. It, it is very taxing to be on the other
4 end of that for other people that are left to, to do the labor
5 during NOSB times.

6 My comment is quick, short. It's just about organic 7 integrity, about keeping soil within organic. It's -- it was 8 frustrating during my -- during Emily's time on the Board of 9 seeing the, the politics involved, seeing the, the divergence 10 of organics of this more of a reductionist, of just no 11 pesticide, no fertilizer approach versus I would say more of 12 the traditionalist of, of taking care of the land and the soil.

And so I would just, you know, just kind of keeping us, you know, in mind, the small scale farmer out there who still work in the soil. And, yeah, that's about it. Just wanted you guys to, to know that we're out here and still, still trying to grow, grow healthy food in soil.

18 CHAIR SMITH: Thanks, Michael, for your comments and 19 for joining us today. It looks like Wood has a question for 20 you, and then Kim. So, Wood, please, go ahead.

BOARD MEMBER TURNER: Yeah, sorry, I'm having a hard time doing the hand raising here, so I'm struggling there a little bit. Mike, please give Emily our best and tell her thank you for the work she did when she was on the Board, on the marine materials side of things. We really appreciate that and it's still, still very much on my mind. So that's all I
 wanted to say, thanks.

3 MR. APPEL: That's great that you bring up marine 4 materials. I know she worked really hard on that. And very 5 frustrating that the NOP has done zilch on it. Again, I think 6 it's, it's politics.

CHAIR SMITH: Kim, please, go ahead.

7

25

8 BOARD MEMBER HUSEMAN: On behalf of my husband and 9 all the other spouses on the Board, I want to thank you for 10 your time and commitment and supporting the, the understanding 11 of what this takes. So that's my, my first comment. And then 12 I'll follow-up it up with a question, because we're supposed to 13 give questions to you.

Can you tell me a little bit more about your farming operations from the perspective of your offput, your -- the logistics behind moving product off your farm to the place that you sell it to and if you have constraints in that regards?

18 MR. APPEL: We, since COVID, we've mostly gone to a CSA model. So we're vegetable farmers. And we predominantly 19 sell at the farmer's market. But now, now it's all CSA. We're 20 21 actually in the process of developing an app that we have a 22 very different CSA model where it's really driven by consumer 23 choice. Basically, consumers order what they want. We do a delivery once a week. We love it, it's great. 24

I mean it's interesting, we -- organic is important,

but we don't really need, need it for our marketing outlet.
But we still continue to be certified just because we, we
believe in, in the certification. We still believe in the
label.

BOARD MEMBER HUSEMAN: Okay. Thank you very much, Iappreciate your comments.

CHAIR SMITH: Nate, please, go ahead.

7

8 BOARD MEMBER POWELL-PALM: Hi, Michael. Good to see 9 you again. It seems like it was just yesterday we were in D.C. Was wondering if you could speak and take this in any direction 10 11 you want, how do we get more young farmers in places like 12 Oklahoma? I mean you all are doing the Lord's work out there. 13 And I feel like you've come across something that, you know, really speaks to how do you find, find the right spot, as we 14 talked about TOPP, as we talked about just new farmers in 15 16 general. What was the piece that you felt made it so you have spent this long and given this much to both farming and 17 18 organics?

MR. APPEL: Thanks, Nate, I appreciate that comment and question. And it's good to see you, too. Yeah, I mean that's something we, we struggle with, too. Because when we started 20 years ago, we -- if you would ask my 26 year old self would there be more organic farmers in 20 years, I would have been of course, it's growing, that's, that's the direction. And unfortunately we're still -- we're still out

1 here kind of by ourselves.

2	I don't I wish I had the answer to that, because
3	there is this wave of kind of newer, small scale vegetable
4	farming doing something similar to what we're doing, but they
5	have chosen this, you know, unfortunately this regenerative
6	label route or labeling themselves. There's no certification
7	involved with what they're doing.
8	But that's and it's really frustrating us. And I
9	don't I don't I don't understand it. If anyone could
10	help me understand it, that would be great, because I'd love
11	to, to be able to, to communicate with them the importance of
12	growing the organic movement. But, yes, that, that is
13	something we're still we're still trying to figure out down
14	here is like how, how to reach these folks.
15	BOARD MEMBER POWELL-PALM: Well, I'll follow-up with
16	you. But thank you us so much, Mike.
17	MR. APPEL: Thank you.
18	CHAIR SMITH: Thanks for being with us today,
19	Michael.
20	MR. APPEL: Thank you.
21	CHAIR SMITH: Okay. Next up we have Sydni Arnone.
22	And then Johanna Phillips. And then Ron Alexander.
23	MS. ARNONE: Hi, thank you. My name is Sydni Arnone
24	and I am Manager of Government Relations for the International
25	Food Additives Council. IFAC is a global association

representing manufacturers and end-users for food ingredients. 1 2 IFAC supports relisting of citric and lactic acids, and 3 microorganisms, yeast, potassium, and sodium citrates, 4 potassium phosphate, and tocopherols. So both citric and 5 lactic acid are important components of organic production and have broad functionality that makes it essential in many б organic foods, and relisting ensures consistency in existing 7 8 organic offerings and to meet growing demand.

9 The handling subcommittee asked if NOSB should 10 consider removing the addition -- I'm sorry, consider 11 recommending the addition of sanitation to citric acid for 12 applied processes to use in organic version of citric acid when 13 commercially available. It's IFAC's understanding that 14 approximately one percent of the citric acid market is 15 certified organic.

Domestically produced citric acid market continues to be nonorganic and the suppliers of certified organic citric acid are from small volume importers. To ensure the continuity of supply for the organic market given the small lines of certified organic and the extensive use of citric acid, IFAC does not support the addition of sanitation.

The subcommittee asked for manufacturers to describe how they ensure no excluded methods are used when including enzymes, microorganisms, or yeast into organic formulation. I will let you know that ingredient manufacturers are able to

provide statements as to the manufacturing methods used in the production of the ingredient and they do receive requests from end product manufacturers for them, which then they are provided.

5 If excluded methods are used, the manufacturer is 6 responsible for knowing that and is used -- and it is used in 7 communicating -- and is used to communicating that to the food 8 manufacturer. IFAC is also not aware of any ancillary 9 substances that should be prohibited for use due to excluded 10 methods.

11 The subcommittee asked if there are organic 12 tocopherols commercially available. IFAC is not any -- aware 13 of any commercially available certified organic tocopherols.

14 They also asked if there is an adequate considerable supply of non-synthetic tocopherols to meet commercial needs. 15 16 It is IFAC's understanding that all commercially available 17 mixed tocopherols would be considered non-synthetic per Section 18 4.6 definition. Mixed tocopherols are not transformed during the extraction process. The extracted mixed tocopherols is the 19 same unaltered tocopherols that occurs in oil seed and all 20 21 processing aids in finished products are not served any technical or functional effect. 22

Lastly, IFAC supports relisting of potassium
phosphate and petitions the NOSB to amend it to -- or add the
letter S to the end of phosphate, as well as moving for

annotation. We ask the subcommittee refer to IFAC's petition 1 2 and updated submission. Thank you for your time. Thanks so much for your comments, 3 CHAIR SMITH: 4 It looks like there's a couple of questions. Wood and Sydni. 5 then Brian. Wood, please, go ahead. Sydni, I just want to make sure б BOARD MEMBER TURNER: 7 I heard you correctly. So when you were saying the 8 manufacturer provides a statement about excluded methods, can you just say more about that? Like what does that -- what does 9 that -- I mean what does that mean? What is that -- what is 10 11 that based -- what is the information based on and is it, is it 12 effectively an affidavit? And what's the -- tell me more about 13 what that, how that works. 14 MS. ARNONE: You're spot on. It is effectively an affidavit. One of our members pulled up an example that they 15 16 frequently send out and it pretty much effectively states that, 17 you know, this is not produced utilizing any excluded means. 18 So I can see if we can get a sample of what that would look like, if the Board is interested. 19 BOARD MEMBER TURNER: Sure, I'd love to see that. 20 I'm sure Brian has a good follow-up question here. 21 22 CHAIR SMITH: Before Brian goes, if you want to pass 23 that to Michelle, she can circulate it to the Board. Thanks, Sydni. Go ahead, Brian. 24

BOARD MEMBER CALDWELL: Thanks, Sydni. My question

Burke Court Reporting & Transcription (973) 692-0660

25

1 is just a little bit more about the citric acid. If there is 2 a, you know, commercial availability clause with the 3 annotation, I don't see how it would really, you know, change, 4 change the practices of the industries very much at all. And 5 but it, the point of it would be to encourage more production 6 of organic citric acid. So I'm just, you know, could you just 7 elaborate a little bit more on that?

8 MS. ARNONE: So from my understanding, when it comes 9 down to like certifiers coming in and having to prove that percentage every time of, or how would they prove that it 10 11 wasn't available for them to utilize, the organic version. Ιt 12 comes because you've added additional steps. There's not -there's less than one percent survival with certified organic. 13 It's a very small amount. However, every time supposed to 14 15 prove it.

BOARD MEMBER CALDWELL: Well, so it sounds like it 16 17 would just be a little bit of extra effort on, on the, you 18 know, the applicant's part, the certified producer's part. So, I don't know, I'm just -- I'm just putting that, like trying to 19 put a little perspective here. It doesn't seem like it would 20 21 be a bit ask. And yet it might, it might really push a market 22 that doesn't, doesn't now have any, you know, any or maybe 23 caller market would be a better way to say it. It doesn't have a call right now. So thanks. I appreciate your answer. 24 I can completely understand, you know, I 25 MS. ARNONE:

would call it devil's advocate on my side, and on your side you 1 2 call me devil's advocate, which is good. It's good for 3 conversation. But it's also something to consider with -- I don't think we're fully out of lovely COVID and all the trauma 4 5 we've all experienced with that, supply chain issues and things like that. So it's also taking that into consideration of б 7 supply chain issues, if that might also cause (audio 8 distortion) in the future. 9 CHAIR SMITH: Thanks for your time, today, Sydni. MS. ARNONE: Thank you. 10 11 CHAIR SMITH: Okay. Next up, Johanna Phillips, then 12 Ron Alexander, and then Bryce Irlbeck. 13 MS. PHILLIPS: Okay. Thank you. I am Johanna 14 Phillips speaking for Strengthening Organic Systems. We're an 15 organic advising firm. I am the Director of Business 16 Development and Technical Affairs. So good morning or good 17 afternoon depending on where you are. And dear Board members 18 and NOP, thank you for the opportunity to comment today. 19 Comments provided are in conjunction with our submitted written

21 Residue testing serves as a compliance monitor and 22 deterrent, monitoring and deterrent against the mislabeling and 23 contamination of organic products. As the market for organic 24 products grows, propelled by trusting the seal, it becomes 25 imperative to keep instruction abreast with current technology

20

comments.

and best practices. Advancements in analytical methodologies
 have enhanced our capability to detect contaminants with great
 precision in various stages of the supply chain.

While useful, current guidance on residue testing fails to capture those advancements. This gap undermines our ability to effectively deter fraud and guarantee the integrity of organic products. We propose specific upgrades to enhance the rigor and scope of NOP's residue instructions.

9 Specifically, for NOP 2610, sampling procedures 10 residue testing, this instruction is vague in several areas 11 such as sample size, type, collection methods across different 12 product types including crops, livestock, and processed good. 13 We advocate for detailed science-based sampling framework that 14 reflects the diversity of the organic sector and aligns with 15 established best practices.

For NOP 2611, instruction for laboratory selection 16 17 criteria, and the associated guidance NOP 2611-1, prohibited 18 pesticides for NOP residue testing, these instructions focus narrowly on pesticide residues. We suggest expanding the 19 instructions to include other synthetic substances, ensuring 20 21 laboratory selection is inclusive of other prohibited materials 22 and methods. We support established re-review timeframes to 23 ensure that current information is always included in the 24 instruction.

25

For NOP 2613, responding to results from pesticide

residue testing, this instruction is a valuable resource and 1 2 has several opportunities to be enhanced. We recommend 3 establishing concrete instructions for determining an action level that does not penalize operations impacted by 4 5 unintentional drift or contamination more stringently in commodities without intolerance established. For concentrates б 7 or dried herbs, we suggest a concentration factor be 8 established to reduce reasons to avoid testing and to provide fair market for all products. 9

To maintain the credibility of the organic label and 10 11 protect consumer confidence, it's essential that our residue 12 testing procedures evolve not only to catch fraud, but to deter Updating the NOP instructions is necessary to this goal 13 fraud. and to maintain consumer confidence in the label. SOS is 14 committed to collaborating closely. Thank you so much for your 15 time. 16

17 CHAIR SMITH: Thanks, Johanna. Any questions for18 Johanna? Oh, I see a couple. All right, Amy.

VICE CHAIR BRUCH: Hey, Johanna. Thank you for 19 20 joining us, today. Thanks for SOS's comments, too, especially 21 on the residue testing, very informative information we glean 22 from there. I'm trying to balance lots of public comments in 23 And as we look at the guidance documents and this arena. updating them, and potentially, you know, expanding them to 24 include more than just pesticide residues, as some commenters 25

1 had mentioned we need more information on that.

2 We look at some commenters were saying we need 3 prescriptive type information in these instructions documents. 4 And others were saying we need, you know, the thought process. 5 So I kind of struggle sometimes with the thought process because we don't always know what we don't know. So where do б 7 you lie in that recommendation for the Board with the 8 prescriptiveness, keeping things up to date, and balancing kind of just the, the teaching of the knowledge? 9

MS. PHILLIPS: That is such a good question, Amy. 10 So 11 I will say where I land in that conversation about 12 prescriptiveness is it really depends on the resources of the entity utilizing the instruction. So my suggestion would be 13 that there be adequate explanation and direction to resources 14 with an explanation that if like for a certifier, for example, 15 might develop internal policies, you know, much like certifiers 16 17 outlying for operations that they can supply alternative solutions. Certifiers have the opportunity to propose 18 alternatives to NOP in their instructions and how they plan to 19 comply with the requirements. 20

What I think is really critically missing from these NOP instructions is that certifiers lean on these not only to help operations understand what the requirements are, but also to help guide their approach and process. So when they're too limited in approach, then you miss all of these separate 1 categories of products and potential contaminants in the 2 enforcement.

3

4

VICE CHAIR BRUCH: Thank you. I appreciate that. CHAIR SMITH: Kim, please, go ahead.

5 BOARD MEMBER HUSEMAN: Thank you. And thank you for 6 your comments. My question is around labs and the ability for 7 the labs to be able to provide results in a timely fashion. 8 What is your -- can you give us just a little bit more lens in 9 your thought process around the timeliness of labs for the test 10 results?

MS. PHILLIPS: Yeah, so I do -- I'll qualify this a little bit to say that until January I was in the certification and regulatory enforcement space, so I'm, I'm a technical advisor now, and so I'm out of that space. So my experience is I've, I've seen and reviewed hundreds of lab results. And I used to work for the State of Idaho, also.

17 Lab timeliness is a non-issue from the standpoint of 18 like if you're done the prework and you understand where you would send a sample to based on what you are looking for in 19 20 your sample, and having it properly prepared so that the lab 21 can accept the sample and that it's in an adequate volume to do 22 what they're looking for, labs typically turn things around in 23 a really timely manner and they have established timeframes. So I don't think there is a timeliness issue across the 24 certification space on getting results. 25

If, if we're talking from the producer standpoint and 1 2 self-testing, I think it's possible that there could be delays 3 But I wouldn't imagine that labs give a different type there. of service based on what their customer is using it for. 4 5 Thank you very much. BOARD MEMBER HUSEMAN: Ι б appreciate all the work that you guys do over at SOS. 7 MS. PHILLIPS: Thank you. 8 CHAIR SMITH: Thanks, Johanna. I saw Nate had his 9 hand up, but then he put it down so maybe Amy asked his 10 question. Nate, are you good? 11 BOARD MEMBER POWELL-PALM: I'm good. I just -- I mean to fight the urge to comment, I just really appreciate you 12 saying that, Johanna, that these are professional operations. 13 They're going to flip these test results around. We just need 14 to make sure inspectors are well-trained to be collecting the 15 16 results. So thank you so much. 17 MS. PHILLIPS: Yeah, thank you. 18 CHAIR SMITH: Okay. Thanks, Johanna. Appreciate 19 your time today. 20 MS. PHILLIPS: Thank you. Okay. Ron Alexander, you're up next. 21 CHAIR SMITH: 22 Then we have Bryce Irlbeck, then Emily Moyer. Please state 23 your name and affiliation, and then you can get started. MR. ALEXANDER: Okay. We're not going to use my 24 slides? 25

I was just going to say --1 MS. ARSENAULT: 2 CHAIR SMITH: Sorry, my bad. 3 No problem at all. MR. ALEXANDER: Thank you for I'll move through them very, very quickly. 4 that. There's only 5 My name is Ron Alexander. I have my own compost a few. consulting company. I was also on the U.S. Composting Council б 7 Board several times. My comments are related to modernizing 8 the NOP regulations. Next. 9 This is who I am. My wife and I have also worked in listing hundreds of products through OMRI and CDFA. 10 We are 11 known for not liking teats and used to run the national compost 12 quality program for 10 years. Next, please. So I just wanted to first just reiterate the obvious 13 and that was compost has become a staple for our -- for this 14 15 industry. It's an important product now and I really hope the 16 efforts that we do here together improve the review process, 17 product quality without unduly raising the cost of the products 18 or the process to compost end-users. Next, please. These are my general comments. 19 I'm just going to go through them very quickly. You can go to the next one, please. 20 21 My first main comment is the compost definition with the 22 regulations are somewhat outdated. There is a bunch of process 23 information and they're probably not necessary at this point. This is the AFCO definition that's being used by the 50 state 24 departments of ag by the regulators of soil amendments. 25 This

Burke Court Reporting & Transcription (973) 692-0660

129

is one that I would suggest, you know, the Board evaluate.
 Next, please.

Also, upfront C/N ratios requirements into -- in the regulations and the process are somewhat outdated. C/N ratio for completed products is something that could be talked about. But upfront C/N ratios are seen as best management practices now and not requirements at all, as far as large scale composting.

9 The other thing is having alternative sanitization 10 standards, I think, is very, very important moving forward. 11 Just a typical two different, three different types of times 12 and temperature and turns for compost. It's a big old industry 13 and I think we need more ability to prove that we can sanitize 14 the product that we can. Next, please.

15 It's also important that we continue to have access 16 to craft paper bags. I know that one of the things that we 17 looked up -- looked at potentially is the inks used, which are 18 primarily pretty darn clean inks, today. But there -- it must be noted that craft paper bags are really important for 19 feedstock collection. Being able to write on the bags is very 20 21 important to provide instructions and reduce inner 22 contamination. So I think that that's an important thing I 23 just want to mention. Next one, please.

And then finally I'm a horticulturist by training, a plant and soil scientist. Again, I ran the national compost

testing program. I preach quality. I am very concerned about synthetic contaminants in compost and the feedstocks. But we have to really be hard and very, very tough to develop standards. And we have to be very, very cautious, because if we do it incorrectly we can really negatively impact product availability. That's all.

CHAIR SMITH: Thanks, Ron.

7

8 MR. ALEXANDER: And then finally if there's any9 questions I can help you with. Thank you.

10 CHAIR SMITH: Yeah, perfect. Thank you so much.
11 Looks like you have a couple of questions here. Nate, please
12 go ahead.

SECRETARY LEWIS: Hey, Ron. Thanks for coming today.
I had a couple of questions. One is do you see any downsides
or is there any risk to eliminating the C to N ratio entirely?
What's the -- what's the con on that pro/con list?

MR. ALEXANDER: Right. The, the front side of the thing for feedstocks up front I don't see a great risk, okay. I don't see a great risk. Most people understand if you're going to put a compost into the soil, we have to be at a 20 to 1 or a 25 to 1 C/N ratio to go in the soil. For a mulch product, those numbers can go pretty sky high, frankly, and not be overly deleterious.

24 But I, I think the front end feedstock C/N ratios is 25 probably old science and can go. You can always discuss C/N ratio I think on the back end for stuff specifically that goes
 in the soil. I did a lot of work in England for 10 years.
 They showed the research when they have high C/N compost going
 in the ground, literally no nitrogen gets to the plant.

5 SECRETARY LEWIS: Fair enough, appreciate that. And then as a follow-up, one of the contaminants in compost that 6 7 I'm most concerned about and I think probably the Board members 8 and stakeholders are going to get sick of me talking about 9 this, but I'm trying to have everyone channel their inner fruit sticker. I understand that fruit stickers remain a perennial 10 11 problem in compost, organic or otherwise. What do you see as 12 an opportunity for organic to lead in eliminating that particular piece of garbage that comes in on pre-consumer and 13 post-consumer food waste? 14

15 Yeah. And I think, I think most of MR. ALEXANDER: 16 the contamination I see in the industry is from post-consumer 17 materials. Pre-consumer is, is much more homogeneous and 18 clean. I do think some of the, the sticker scare is, is somewhat overblown, though it's mind-blowing to me that we're 19 using these stupid things. And we have to make these things 20 21 out of non-synthetic materials, I mean. And I, I argue we can 22 do that, you know what I mean?

23 So I don't have a great answer for that. I could say 24 the materials can be screened out, but they can and they can't. 25 If they shrivel up and get small, they may go through a screen.

I will tell you that on the West Coast, especially California 1 2 where food waste contamination is huge, we're seeing people 3 screen at one-eighth and one-quarter inch just to get clean 4 compost. And realistically there's few places around the 5 country that that's financially realistic, because if the compost is wet, you can't screen it that fine. So this is a б 7 huge dilemma. It's a huge dilemma. It will be our dilemma for 8 a while, yeah.

9 SECRETARY LEWIS: Thanks. Thanks, Ron, I appreciate 10 you being here.

11

MR. ALEXANDER: Yeah, sure.

12 CHAIR SMITH: Mindee, please, go ahead.

BOARD MEMBER JEFFREY: Yeah, thanks, Ron. 13 Nothing hurts my feelings more than watching fruit stickers come down 14 in my sifted pile of compost, so really feel the pain of that 15 16 I read in your comment that you are not generally one. 17 supportive of the BPI petition. And I was wondering if you 18 could unpack that for me a little bit. Is it that it's an infrastructure problem, it's screening because we can't really 19 separate compostables from plastics, or is it a concern for how 20 21 those constituents end up in finished compost?

22 MR. ALEXANDER: Well, I think I, I really want to get 23 deeply into it. There are synthetic materials in those 24 products, so unless there is an exemption for those specific 25 materials I don't know how you get around that. But generally

in the composting industry, very sadly I'm supportive of the concept, but these materials are typically screened out with plastic and land silt. Any of the materials that are 3D in nature, not film, it's really hard to get them to compost fast enough during a typically composting process. And it pains me. It pains me. But it's, it's a difficult dilemma. It's a difficult dilemma.

8 CHAIR SMITH: Thanks, Ron. Brian, please, go ahead. 9 BOARD MEMBER CALDWELL: Yeah. Thanks, Ron, really appreciate your comments. In that definition that you put up, 10 11 I, I just want to make sure I got it right. But it described 12 the process of composting, but it said nothing about the 13 inputs. Am I right? So that sort of anything could be composted as long as it goes through that process? 14

MR. ALEXANDER: Well, anything that's, that's -- I mean we basically with this definition, which I helped develop, by the way, all honesty we try to be feedstock agnostic. I have no issues with plant and material-based materials, you know.

I'm not trying to pass through any synthetic materials. I'm just stating that we try to -- we try to develop a defendable -- a defendable and logical, something that is both scientific and commercial when developing this thing for AFCO. Really, the goal is to catch products that aren't compost and making sure they can't call themselves

1 compost with that definition.

BOARD MEMBER CALDWELL: Yeah, thanks, because definitely one of the big issues that we're working with here is, is what the feedstocks can be. So, you know, great. Okay, thanks.

6 MR. ALEXANDER: Listen, I have no issues with most of 7 everything you guys do as far as feedstocks. We have, again, 8 we've put hundreds of products through. Okay. Thank you for 9 your time.

10 CHAIR SMITH: Thank you so much for your comments,11 today.

MR. ALEXANDER: By the way, if there is anything that myself or the U.S. Composting Council can do to support your efforts, we would be happy to do that.

15 CHAIR SMITH: Thank you.

16 MR. ALEXANDER: Sure.

17 CHAIR SMITH: Okay. Next up, we have Bryce Irlbeck.18 Then Emily Moyer and then Zach Porter.

MR. IRLBECK: I'll start the video, there we go, perfect. Good afternoon, everyone. My name is Bryce Irlbeck from Western Iowa. I'm an organic producer in corn, and soybeans, and alfalfa. I'm also founder of the business AgriSecure that helps other producers digitally work through the certification process. And we currently do about 50,000 acres or 30 producers, so pretty heavily invested in the

1 organic industry.

2 I came here today to discuss two topics, the first 3 being the importation of organic grains. The second is of the 4 organic transition initiative. I'll start with the organic 5 grains importation. I just want to make it very clear we are losing organic farms and organic acres at a pretty incredible б 7 rate out in the country. And it's really coming from the 8 importation of grain. And I'll get into a little bit of 9 sustainability.

We're importing from countries like Russia, Turkey, and Africa, and one of those countries we've had billion dollar -- billion dollar companies pull out for ethical and moral reason, yet we're still importing. Another country that we have a very difficult time of food insecurity, yet we're still importing from them. And it really comes to the gut punch of the farmer on those organic importations.

And then we added in the extra rigorous certification process, which I have no, no problem with. But we didn't really curb any of the grain importation or imported across seas as well.

And bringing back the sustainability side of this is we have a lot of grain coming in. The farmers are not sustainable any more. We have corn and soybean rotations as our last chance or you don't have small grains because most of the country that imports it in is not sustainable. Our import

companies are not sustainable. The support groups are not sustainable. And the services that we need to, to have this organic ecosystem are not sustainable. And once they leave, they're never coming back. That's the important thing that I'd like everybody to think about.

б We don't have two years to fix this, we have months 7 before this thing comes down and doesn't work for anyone. And 8 then the call to action is really we need to do what the organic U.S. producer has to do, bring that across seas for the 9 testing and everything, as well as testing ships that come 10 11 over, as many people have talked about before. I won't go into 12 details. And make it the same as the U.S. grower has to go 13 through, because I really don't believe that's, that's 14 happening right now.

15 With the last 45 seconds, I'll talk about OTI, 16 because I think it's important. The OTI plan was great. And it's a great idea to, to work with organic growers and promote 17 18 the organic industry. But that was about all that was great about that was the idea. The local level USDA people worked 19 very hard. We worked with them. They are very good people. 20 21 They had zero information, exactly zero information on how the 22 program worked. They had exactly zero information of how to 23 make this go through.

And the goalpost of cleanliness has changed quite a few times throughout the last three months of process. And we still don't know where it is, today. And we're in the field planting. So I -- it is a disaster from the national and state levels. I want to iterate that the USDA level was good, but it still looks like they are changing the goalpost and we won't even get to utilize the program this year.

6 CHAIR SMITH: Thanks, Bryce, for your comments. 7 Looks like you have a question from Allison. Allison, please, 8 go ahead.

9 BOARD MEMBER JOHNSON: Thanks, Bryce, for being here 10 and bringing up the organic transition initiative. Can you 11 tell us a little bit more specifically about who you're running 12 into challenges with at the local level? Is it NRCS, or FSA, 13 or which type of office, and what program you were trying to 14 apply for.

15 So the OTI, organic transition MR. IRLBECK: Yeah. 16 program. And we weren't running into trouble at the local The local people are very helpful. They just had zero 17 office. 18 information about the entire program. And we, we have three different counties that we are in so we -- and two states that 19 we worked with probably 17 different people. Zero information 20 21 that those people were given from the top of the program.

So we would sign up and then the local people thought we were good. We had all our information. The State came back and said, no, you're missing all this information that they never told us we needed. You're kicked out of the program. We

fought that for 15 days, probably 20, 30 meetings, and they let 1 2 us back in. And then they kicked us out again for some 3 So from our standpoint, it really feels like technical reason. 4 they are trying to make that program not utilized. 5 BOARD MEMBER JOHNSON: Was this the NRCS funding? б MR. IRLBECK: Correct. 7 BOARD MEMBER JOHNSON: Yeah, okay. Really helpful to 8 Thank you for bringing those specifics. know. 9 I have all the emails, too, and MR. IRLBECK: correspondence. We kept track of it, if you guys want to see 10 11 it. 12 BOARD MEMBER JOHNSON: Yeah. I'm sorry you went 13 through that. I'm hoping things will get easier as the, the program matures. But, yeah, it's so frustrating when you have 14 15 this opportunity and you're not able to take advantage. So I 16 appreciate you bringing it. 17 MR. IRLBECK: Yep. CHAIR SMITH: 18 Nate, please, go ahead. BOARD MEMBER POWELL-PALM: Bryce, when you were 19 20 saying sustainable, you mean economically sustainable, correct? 21 MR. IRLBECK: Yeah. I mean everything has to be 22 economically sustainable to keep it -- keep people in it, to 23 provide that food, to provide that rotation, and provide the outcome of organic. 24 BOARD MEMBER POWELL-PALM: And one follow-up on the 25

1 823. You're able to grow the one ton of biomass per acre for 2 cover crops because you're both irrigated and you're in a rain 3 zone than say, Michael, who you heard from earlier, and yet 4 you're still having trouble getting this through, correct? Am 5 I hearing you right?

6 MR. IRLBECK: Correct. For, for the -- so clarify 7 that question, Nate, please?

BOARD MEMBER POWELL-PALM: Sure, yeah. So as part of
823, the requirement that you produce one ton of biomass for
your cover crops, that wouldn't be a problem for you guys.

11MR. IRLBECK: We didn't even get that far.12BOARD MEMBER POWELL-PALM: Got it, okay.

MR. IRLBECK: I mean we, we -- it was -- it's they didn't even know that.

BOARD MEMBER POWELL-PALM:

15

MR. IRLBECK: And I want to -- I want to reiterate the local people at the USDA and NRCS have been great. It's not their fault. It's coming from the top. The top never told them anything about the program. And still to this day it's been difficult to get much out of.

Yeah.

21 BOARD MEMBER POWELL-PALM: And just to finish up, 22 you, both for your operation, as well as other farmers feel 23 like this is a program that would benefit them and would be 24 used if we had some more local education and support? 25 MR. IRLBECK: Definitely. I think you promote a lot

of organic transition, as well as learning, and what it does is 1 2 it, it takes the, the risk -- it mitigates the risk. Ιt 3 doesn't take it completely away. But when you transition organic, there is a good chance you're going to lose money. 4 5 And it helps you try things, do things that might help you in the future. So it's just not a program that pays for this б 7 It pays for you to learn and understand how to do things vear. 8 right, instead of getting into it and trying to get through it. 9 BOARD MEMBER POWELL-PALM: Thank you. CHAIR SMITH: Amy, please, go ahead. 10 11 VICE CHAIR BRUCH: Yeah. Bryce, thanks for your 12 time, today, and supporting the residue testing. I wanted to 13 ask you on the 823, I asked Michael this earlier, are you aware of any producers that were awarded an 823, the OTI EQIP 823? 14 15 MR. IRLBECK: I am not. I was told we were one of 16 very few that signed up. So it's very perplexing that -- and 17 we know the other people that signed up. But I don't know if 18 the program actually exists. I'm going to put it that way. It's yet to be determined. 19 20 VICE CHAIR BRUCH: More to come. Thank you, Bryce. 21 MR. IRLBECK: Yep. 22 CHAIR SMITH: Thanks for being with us, today, Bryce, 23 and for your comments. MR. IRLBECK: Thank you. Next up, we have Emily 24 Moyer, then Zach Porter, and then Tony Michaels. If you could 25

just state your name and affiliation, and then you can get
 started, Emily.

3 Yes, good afternoon. Hi, everyone. MS. MOYER: My 4 name is Emily Moyer. I'm the Vice President of Regulatory 5 Compliance and Global Food Safety at International Fresh Produce Association. So I first want to thank you as always б 7 for the opportunity to provide these remarks as the Board is 8 conducting your sunset review of organic materials and, and reviewing your spring discussion documents. 9

IFPA represents over 2,500 companies from every 10 11 segment of the fresh produce and floral industry. That 12 includes over 500 companies who are directly involved in the 13 production of organic fruit, and vegetables, and flowers. My 14 comments are also representative of our IFPA organics committee, which is made of 24 produce industry professionals 15 16 who represent again a diversity of organic produce commodities, 17 operation types, regions, and experience.

A number of materials being reviewed next week are of great importance to our organic members, for which we have provided support in our written comments. For the interest of time, I am focusing my comments today on the carbon dioxide petition proposal, as well as peroxyacetic acid.

We do understand the crop subcommittee expressed hesitation in approving a petition filed in 2020 that would add carbon dioxide to the National List for use as a plant or soil amendment under Section 205.601(j), and understand the limitations of that petition. And ultimately the motion was not passed. IFPA members have found that CO2 that comes from natural growth production is especially important for controlling production systems on farms. It has especially been valuable for controlled environment agriculture, because relying on the ambient CO2 levels is not as precise.

8 TA production does continue to grow and provide 9 opportunity to supply fresh grown organic produce year round. But in order to optimize these production methods, there are 10 11 times when the CO2 levels need to be increased. So as 12 standards for these types of growing operations are clarified hopefully sometime in the future, IFPA does encourage the Board 13 to evaluate or reevaluate the necessity, necessity and 14 15 compatibility for the use of CO2 as a plant or soil amendment.

Finally, just in regard to peroxyacetic acid, IFPA and, and myself as a food safety professional cannot overstate its necessity for sanitizing of equipment and tools in fresh produce harvest and handling environments. It is one of the most common antimicrobials used by our members for this purpose.

PAA is also used as an antimicrobial agent in produce wash water to prevent cross-contamination in washing tanks and for the cleaning of irrigation pipelines. If PAA wasn't available, we worry that the production of safe organic fresh

produce would be substantially impacted, hence our strong
 support.

3 So thank you again for the opportunity to present 4 oral comment. And as always we appreciate this work.

5 CHAIR SMITH: Thanks so much. That buzzer goes off 6 and every time, even though I'm like looking on it, it like 7 shakes me. Anyway, Logan, please, go ahead.

BOARD MEMBER PETREY: Hi, thank you. Thanks for your comments, especially on the carbon dioxide. We haven't had a lot of -- a lot of comments, you know, against or support until now of the CO2 at this listing. And I just want to mention also in the petition, it is actually extremely vague for that listing as a crop and soil amendment giving it's really no information.

We were waiting until actually the TR is the only thing that provided any information of its use, its need, its importance for that. The petition really, really focused on using it for irrigation water, acidifying that. And so that really directed the Board, you know, kind of forcing something else. Even though it was listed in the petition, there was not a lot of information in it.

22 Saying that, just curious what -- do you know what 23 methods or what materials are being used for that in organic 24 greenhouses currently, since CO2 is not allowed?

25

MS. MOYER: So I don't -- sorry? I don't personally

know the production methods, but it is something that I can 1 2 speak with our members and get a little bit more details on. 3 And I appreciate your explanation as to the petition, because I 4 understand just in reading through that discussion document the 5 limitations. So that's something I think we can certainly, you know, for our members get better information that would be б 7 needed on, on that side for the soil amendment and planting 8 limit portion.

9 BOARD MEMBER PETREY: That would be great, because 10 it's not, you know, the material itself that we're really 11 nervous about, it's the use and we don't understand that. So 12 we're really just limited to the information on the TR without 13 anybody coming on and commenting how they would use it or how 14 it's needed.

We haven't heard from any greenhouse user or any indoor -- nobody has come on and said they need that. So if it is that needed, we would love to hear from people who would use it, you know, more and really help convince us that's there, you know, that's a possibility. It's just that was what we were working with.

And we could see from comments from PCS, they kind of mention the same thing. So I'll encourage them to try to get growers or, or just more information for us. So thank you for your time. I appreciate it.

25

MS. MOYER: I appreciate it. I can absolutely make a

note for that for the fall. 1 2 CHAIR SMITH: Thanks so much, Emily, for your 3 comments today. Thank you. 4 MS. MOYER: 5 CHAIR SMITH: Okay. Next up, we have Zach Porter. Then Tony Michaels. And after Tony, we have Hilary Near. б 7 MS. ARSENAULT: Kyla, I think Zach is not on the 8 phone with us. We're going to swing back at the end of the day 9 to see if he was able to join. CHAIR SMITH: Oh, yep, that's right. I saw that 10 Sorry about that. Tony Michaels, then you're up next. 11 note. 12 And then Hilary Near and then Harry Rice. MS. ARSENAULT: I don't believe Tony is with us, 13 either. Let me check one more time. 14 15 CHAIR SMITH: Tony, I see --16 MS. ARSENAULT: On the phone? 17 CHAIR SMITH: Yeah, is on the phone. Oh, maybe not 18 sure if on the phone, but --MS. ARSENAULT: Just one second. 19 I'm not seeing his 20 phone number in the four phone numbers we have on the call. Okay, thanks, Michelle. We will circle 21 CHAIR SMITH: 22 back to Zach and Tony. Then we have Hilary Near and then Harry 23 And then we'll take a break. Hilary, if you could just Rice. state your name and affiliation, and then you can get started. 24 25 Thanks.

MS. NEAR: Hilary Near, Commercial Zero Waste Senior Coordinator at the City & County of San Francisco, our environment department. So I'm here, thank you, Board, for to comment specifically regarding the definition of compost, which would result in the inclusion of certified compostable foodware and bags as a feedstock, and compost lodge working operations.

7 In the City and County of San Francisco, we've 8 offered compost separated organic selection for over 25 years 9 to our population of over 80,000 people, many of whom live in 10 multi-family housing, almost two-thirds we estimate. And the 11 especially compostable plastic liners and bags have been really 12 important to capturing those food scraps generated from 13 independent apartments down to collection points.

14 And we have actually gone so far as to require everyone, meaning all businesses, all residents have to have 15 16 access to it, and have to participate in organic selection. We 17 have very, you know, significant results related to that. We 18 also really rely on these associated food contact materials and foodware. We have regulated those to the amount of, you know, 19 requiring packaging to be reusable, preferred, and then recycle 20 21 or compostable with the aim of achieving zero waste and 22 capturing more of the organics generated in our city.

It means that -- our city's density means that we have to capture food scraps in order to meet our climate goals. We can't rely on sort of yard debris or leaf collection. We have to go after that food scraps. And the certified
 compostable products are a really important piece of closing
 the loop on them.

So it has also been obviously, as Ron alluded, we do 4 5 have high contamination. It's very hard to educate everyone, even with the vast investment, you know, millions of dollars б and many multi-legal staff to show for it. And we do see that 7 8 these products are really important to reducing contamination of conventional plastics. People have access, for example, to 9 conventional -- or, excuse me, compostable produce bags, which 10 11 every grocery store has to provide with their sometimes organic produce. Any produce should be sold in those that residents 12 can use then for their close the loop and put them in their 13 14 green cart.

In closing, I'll just reiterate that food guidelines 15 16 and rules that effectively limit composters from taking these 17 materials create further barriers for who has got collection 18 programs. And we're really asking the National Organic Program to consider this comprehensive view of attempting to close the 19 loop, and the role of these products in allowing especially 20 21 organic farming in California to continue and use food scraps 22 that a dense community like San Francisco produce, to buy back 23 food into our city. So thank you again. And admire your work. CHAIR SMITH: Thanks for your comments, Hilary. It 24 25 looks like we do have a question. Nate, please, go ahead.

SECRETARY LEWIS: Hi, Hilary, thanks for your 1 2 comments. I'm curious if you can provide some insight into 3 your experience with the non-film compostable products and whether those, like forks, clamshells, whatever, so anything 4 5 beyond the bag, and how those can help or don't help this waste reduction goal. I understand the, the bag consideration. б 7 MS. NEAR: Yeah. 8 SECRETARY LEWIS: Similar to what we heard from Ron 9 about the craft bags or leaf pickup and that kind of stuff. 10 MS. NEAR: Yes. 11 SECRETARY LEWIS: But I'm curious about like the 12 forks and the clamshell, I mean all this other single-use stuff. Does that move the needle in your mind or is it really 13 just about the bags? 14 15 MS. NEAR: We're, we're very attached to the bags. 16 So I think that's -- I'm glad you picked up on that nuance. 17 Bags are really important. And although there is still a lot 18 of greenwashing, we're really hopeful in California, the labeling piece, we have additional policy that will go into 19 effect to limit any, similar to Washington, any use of the 20 21 green film outside of -- and the labeling of compostable 22 outside of certified compostable. So we're confident of that. 23 Obviously, your all's decision on this piece is really key to the -- to the policy picture and the landscape 24 here in our options. To answer your question, many businesses 25

are also very attached to the convenience. I mean we saw a ton of backsliding around COVID. So they like if they're offering food conveniently to go, they get less contamination if they're able to just choose all compostable, right?

5 It helps capture, that's the story and you've heard 6 it probably reflected EPI, biocycle, many of our -- and our 7 producers highlight that. And we have seen that performance 8 for places like our venues, Chase Center, for example, Oracle 9 Park. They invest in those and then they can do less sorting 10 on the back end because our hauler does process, process those.

We're also though very much a testing ground, because our customers will pay the premium for compostable or green products. So we do get a lot of greenwashing. And I would say I've stood at those piles at our large compost facility and the things that don't make it through are the bio-base label or the, you know, not to name a brand, but, yeah, tear-wear that are not actually certified compostable.

18 And we've seen probably most recently in the composting contortions really comprehensive study of 10 19 facilities that across the board, whether liners or a different 20 21 thicker resin, they perform. And it's sometimes the labeling 22 issues I think that, that end of issue that Ron mentioned where 23 there's just so much conventional plastic that they have to screen to get that out. And the machinations don't distinguish 24 between whether the PLA cup or a PET polypropylene cup. 25 So

1 that's the thing, it's the same issue at our facilities.

2 CHAIR SMITH: Thanks, Hilary. Brian, please go3 ahead.

4 BOARD MEMBER CALDWELL: Hi, Hilary. Thanks for your 5 comments. And, yeah, I think your goals of, of your program is really laudable. But we have a composting facility near us. б Ι 7 live near New York that has basically two streams. One does 8 not include food waste and that is allowed to be sold as, as to 9 organic operations. And then there is another stream that has food waste that is not sold as organic. So what, what is 10 11 the -- I mean what would be the practical impact of just of you 12 guys just, you know, saying, well, this is great, we've got this good compost stuff, but it's not going to be sold to 13 organic farms, but could be used by landscapers or whoever else 14 15 wants it.

16 MS. NEAR: Yeah, thanks for that, Brian. Two 17 thoughts. One is that we -- our composter did invest in that 18 at our request. So they need significant investments to keep separate piles to supply to, you know, farms and, and customers 19 who wanted that organic certification, and still meet our, our 20 21 request to process our material without, yeah, with compostable 22 products which were not -- are now allowing synthetic. So we 23 did do that.

24 We've since sort of consolidated operations and I 25 think, as Ron mentioned, like financially it's just not possible for our facilities to keep those dual piles. I think you may have seen comments from NAFA Recycling, which is in our neighborhood as well. To that point, they do keep dual piles and they would really like the option to combine them, to serve those needs.

Given effectively the definitions of composting, you
know, could use some revision to align with the ASCM standards
and the fact that those materials are completely transformed
through the composting process. So I'm hoping the NOP
considers that so that composters have the option.

And then the second thought was that our -effectively, our state law will not -- we will not have that option. So if you all don't include these products that meet the ASCM standard as an allowed synthetic, it will close the loop. It will -- we will not be allowed to accept those materials or process them in California in 2026.

17 BOARD MEMBER CALDWELL: So the -- I'm sorry, just to 18 follow through on this.

19

MS. NEAR: Yeah.

BOARD MEMBER CALDWELL: You're saying that the state law includes a requirement that it be allowed for organic in it?

MS. NEAR: Yes. That was -- yes, that's what happened. AB1201 defined and that's obviously one of the reasons BPI worked hard to get this in front of you all and

demonstrate the value of some certified compostable products, 1 2 including them and feeding organic farms. 3 BOARD MEMBER CALDWELL: Yeah, that -- okay, that 4 I -- that piece explains a lot. And, of course, just thinking 5 out loud, of course, we, we have to try to do what we think is б best for the entire country. And so it goes beyond state law, 7 but, you know --8 MS. NEAR: Of course. 9 BOARD MEMBER CALDWELL: That clarifies. Thank you very much. 10 11 MS. NEAR: Yeah, I recognize the challenge. And, yes, respect all of the -- all that you're balancing. 12 Allison, please go ahead. 13 CHAIR SMITH: BOARD MEMBER JOHNSON: Thanks so much for being here, 14 Obviously, you've done a lot of work on the action to 15 Hilary. 16 get more municipalities composting and make sure that we are 17 closing that loop. So I appreciate you taking the time to show 18 up somewhere that isn't in your usual orbit to help all of these pieces work together. 19

And I'm curious do you have, to a virtual room full of organic people, if there are other places where we need to be showing up to make sure that we're weighing in on what meets the definition of compostable, how we can be sort of cleaning up the, the input chain so that if we do get all of these pieces lined up to comply with California state law and allow

California compost to be still used on organic farms. What
 other pieces need to come together and where can other folks
 here be making their voices heard?

MS. NEAR: Yeah, a lot -- yeah, there's a lot to clean up. I think Ron's open invitation to U.S. Composting Council is a significant one. They're really important to holding those conversations, if that answers your question, Allison, like who, you know, who is bringing that together.

9 I think California is really unique in that we sort of have our own little micro-cause, I think I saw a comment in 10 11 the -- in the chat around that. But although we are just 12 California, I think a lot of communities and NRGC is 13 representative of that, in that the case study is like I've done a lot of conferences or we're leaning on a lot of also 14 15 integrating the food waste prevention with our state law, the 16 SB-1383, regulating short-live climate pollutants, being one.

17 So I think, you know, what you do here, this 18 landscape, and how it impacts California is going to be really significant federally. And I think those, those national 19 organizations, Allison, your question, are the U.S. Composting 20 21 Council primarily and BPI, inasmuch as they helped pose that 22 conversation around compostable products particularly. 23 BOARD MEMBER JOHNSON: Thank you. Thanks so much for being with us, 24 CHAIR SMITH: 25 Hilary.

1

MS. NEAR: Yes.

2 CHAIR SMITH: We have Harry Rice up. And then we're 3 going to take a break. And then so, Harry, if you could state 4 your name and affiliation, and then get started.

5 MR. RICE: Great, thank you. Hi, my name is Harry Rice and I am with the Global Organization for EPA and DHA 6 7 Omega-3s, GOED for short. We represent the worldwide industry for EPA and DHA, the primary launch of Omega 3 fatty acids 8 found in fish oil. Our membership is built on a quality 9 standard unparalleled in the market and our mission is to 10 11 increase consumption of EPA and DHA, and to ensure that our 12 members' products -- or our members purchase quality products 13 that consumers can trust. GOED appreciates the work of the NOSB handling subcommittee in reviewing fish oil as part of the 14 15 2026 Sunset Review.

As we did in 2015 and again in 2019, GOED continues to support the inclusion of fish oil in 7 C.F.R. 205.606, non-organically produced agricultural products allowed as ingredients in or on processed products labeled as organic. Because the National Organic Program does not have production standards for aquaculture, fish and thus fish oil cannot be commercially available as organic.

Since fish oil does not exist as organic, consumers who prefer organic products should have access to those products made with non-organically produced fish oil. During previous sunset reviews, sustainability has been the most contentious issue regarding the inclusion of fish oil under 7 C.F.R. 205.606 and we are disappointed that the National Organic Program chose not to act upon NOSB's 2021 recommendation to modify the fish oil annotation.

As we communicated in both our written and oral comments in both the spring and fall of 2021, GOED and its member companies who supply the category, support stable fishing practices, and reviewed a modification of fish oil annotation as an acceptable solution to address sustainability concerns, to ensure that fish oil is compatible with organic practices.

At the same time, we have expressed previously that there is no fish species in the world that is caught primarily for fish oil production, a concern that's been raised in the past, would contribute significantly to sustainability debate. Fish oil is always a value-added byproduct of fishmeal or seafood production, because the proteins value is much greater than that of the oil.

GOED believes that protecting our oceans and natural resources is paramount. Maintaining our oceans is not only good environmental stewardship, but also ensures sustainable growth in the Omega-3 industry as a whole. Fortunately, most of the fisheries from which fish oils are sources have either been certified or are currently pursuing certification by the

Marine Stewardship Council, who are the well respected programs
 and organizations which exist solely to improve global
 sustainability of the Omega-3 industry.

In conclusion, GOED encourages the NOSB to retain fish oil on the National List. And please do not ever hesitate to contact GOED with any questions related to fish oil or any other EPA or DHA product. Thank you for your time and tireless efforts.

9 CHAIR SMITH: Thanks so much, Harry, for your 10 comments. Does anyone have questions for Harry? Oh, I see 11 Wood. Wood, please, go ahead.

BOARD MEMBER TURNER: I just want to thank you for your comment about the (audio distortion) action. I appreciate that -- appreciate that comment. Thank you.

15 CHAIR SMITH: Okay. Thanks for joining us, today.16 MR. RICE: Take care.

17 CHAIR SMITH: Okay, everybody, we are going to take a
18 break. Let's come back at 20 after. That's 13 minutes. Okay,
19 great.

20

(Off the record from 3:07 p.m. to 3:20 p.m.)

21 CHAIR SMITH: Okay. Sorry for not announcing the 22 people coming up. So thanks, Jared or Andea for posting that. 23 Just so everybody is aware, we're running about 20 minutes 24 behind, so not too shabby. Up next we have Rob MacGregor, then 25 Nicole Dehne, and then Heather Spalding. Rob, if you could

state your name and affiliation for the record, and then you
 can get, get going.

3 thank you. I'm Rob MacGregor with MR. MacGREGOR: 4 Horizon Organic Dairy. Hello members of the Organic Standards 5 I'd first like to thank you for allowing me to address Board. the Board during the semi-annual meeting. I'm a large vendor б 7 and who has worked in the dairy industry for 15 years. Ι 8 currently work for Horizon Organic as a milk quality and animal 9 welfare manager.

I've seen many changes and advancements in my career on how animals are cared for and the focus that is now put on the welfare and well-being of the animal. I'm very excited about and fully support the NOSB having the opportunity to approve meloxicam for use in organic cattle.

15 Dehorning is a necessary practice in dairy facilities 16 across the country. Removal of horns protects caretakers who 17 work around the cattle on a daily basis. It also protects 18 other animals in the herd from aggressive or dominant animals that would be even more dominant with a set of horns. 19 I have seen firsthand cows who have used their horns quite viciously 20 21 on other animals in the herd to fight for bunk space, water 22 access, and meadow line spaces.

Dehorning, while necessary, is also a painful procedure as horn tissue is removed via, via thermal burning. Rightfully so, the dairy industry is beginning to move to 1 multi-modal pain control when performing the procedure. This 2 involves using lidocaine for immediate procedural pain control 3 and a longer acting anti-inflammatory for longer term pain 4 control.

5 Currently, organic dairy producers have limited options available for anti-inflammatory methods they can use. 6 Aspirin is available, but its effects have been shown to be 7 8 short-lived. Banamine is also available, but it is difficult to give and it must be given in IV, and so many producers are 9 scared to give it. There are also natural substances that are 10 11 currently allowed for pain control, but these have not scientifically been shown to be effective. 12

Meloxicam is an anti-inflammatory drug that is 13 commonly used in humans, horses, conventional dairy, and small 14 It has the benefit over the two medications 15 animal medicine. 16 that I previously mentioned in that it has been shown in 17 multiple sites to be more effective to control pain than 18 aspirin in ruminants. When compared to Banamine, it is routinely administered in pill form, making it much easier to 19 give to calves, who often have veins that are hard to find. 20

Adding meloxicam to the approved substances list would give dairy producers a safe, reliable, and easy to administer medication that will help them to meet the welfare demands of the public that is becoming more and more aware of where their food comes from and how it is produced.

My main focus today was to offer support for the use 1 2 of meloxicam. But I would also like to offer my support for 3 the continued uses of Xylazine on organic dairies as it sunsets. This is a common sedative in dairy practice that can 4 5 be used in a variety of situations, including for anxious animals and for practices or surgery that require sedations. б 7 Additionally, I would like to offer my support for the 8 continued use of the parasiticides moxidectin and fenbendazole. I agree that the regular use of these should not be a crutch to 9 offset -- practices, but I strongly feel that -- is necessary. 10 11 Thank you.

12 CHAIR SMITH: Thanks much, Rob. Any questions for
13 Rob? I don't see any. Thanks so much for your comments today.
14 MR. MacGREGOR: Thank you.

15 CHAIR SMITH: Okay. Next up we have Nicole Dehne, 16 then Heather Spalding, and then Ginny Olson. You can state 17 your name and affiliation, and then get started, Nicole. 18 Thanks.

MS. DEHNE: Great, thanks, Kyla. My name is Nicole Dehne. I'm the certification director for Vermont Organic Farmers and we represent close to 750 organic producers in the state of Vermont. I'd like to thank the NOSB and the NOP for all of your hard work. And today I am commenting on compost. So VOF does not support a change in the regulations to redefine compost feedstocks. We feel organic farmers in

Vermont would be negatively affected by this change. As we all know, compost is a critical input that farmers in Vermont use to improve quality and health. We are concerned that changing the regulations to allow more synthetic feedstocks in approved compost would risk serious contamination for organic land.

VOF does run our own compost approval program. б We 7 ask composters to fill out an application that describes the 8 feedstocks they use, the composting process, and ask them how they mitigate the risk of contamination from specific 9 feedstocks. They fill out the application and have an onsite 10 11 inspection every two years. Once approved, we identify them as 12 compost approved for use in organic farms. And this allows our 13 producers to understand that their compost meets the NOP 14 guidance for compost, but it also provides some assurance that 15 these composters are addressing contamination risks from feedstocks. 16

So our approved composters are required to screen feedstocks for plastic and compostables before the composting process begins. We agree 100 percent these contaminants are not removed during this step, but it is still an important step to reduce the contamination of the final product. An even better step is not accepting food waste that allows compostable products and some of our composters start there.

24 Commercial compost operations in Vermont have 25 identified that it's feasible and preferred to avoid allowing

1 compostable products to enter compost. We hear from our 2 composters that there is no way for them to tell the difference 3 between the compostables in the plastic, and that because of that all these materials have to be prescreened at the same 4 5 In fact, the majority of composters in Vermont have time. stopped taking food waste that contain compostable products б 7 because it increases the amount of petroleum-based products that end up in the feedstock. 8

9 So we're worried that changing the regulations to 10 allow for some compostables will result in the allowance of 11 plastic. And then both of these -- both of these materials 12 will be screened out in the final compost process versus 13 prescreening, resulting in a compost with more potential 14 contaminants.

15 So in general, we feel that compost approved for use 16 on organic farms should meet more stringent standards. Because 17 composting processes can concentrate contaminants, you must be 18 extremely diligent about what feedstocks are allowed to be used. And, finally, this regulation change would not help 19 It would put them at more risk for potential 20 organic farmers. 21 soil contamination and it would not improve the quality of the 22 compost that they rely on. Okay, I had plenty of time.

CHAIR SMITH: Thanks, Nicole. A couple of questionsfor you. Go ahead, Mindee.

25

BOARD MEMBER JEFFREY: Hi, Nicole. Thank you so much

for your comments. I really appreciate the work you guys are doing up there in Vermont. And I was wondering on a couple of fronts if you could tell me about the two-year inspection cycle, like what the visibility that gives you in evaluating compost, because we know some there are not inspection requirements for every compost. So just wanted to hear a little bit more about how that's helping you.

8 And then just kind of in the philosophical thinking of how can we get to reduce contamination, one idea I've been 9 wondering about is if post-consumer versus post-producer of 10 11 food waste feedstock could be an interesting path. And I was 12 wondering if as your composters are looking at feedstocks they decide not to take, if that's a distinction that you see out 13 14 there in that like it could be easier for us to source food 15 waste that isn't as contaminated from a brewery and their spent 16 grain more so than from a brewery serving burgers and we're 17 taking all of that. So just wondering thoughts on that.

18 MS. DEHNE: Sure, okay. So we implemented our compost approval program, we pretty much stole our model from 19 MOFGA, who had a great system led by Eric Sideman a long time 20 21 ago. And the, the idea there was to be able to review the 22 compost well, that we needed to do a full application, and that 23 we needed to visit the site to see, you know, that we could -very similar to organic certification. That we can see that 24 this is actually what they're doing on their site. We can look 25

for any management issues. We can look to see what the finished compost looks like. We can see the feedstocks before they go in, that sort of thing. So we do it every two years. That's sort of a compromise. And we, we only charge like \$350. So it's really a service to our producers, is how we see that.

For your second question, I think -- what I think maybe you're getting at or how I am interpreting that is what we're seeing our composters do is they're being choosy about their feedstocks. And I do think that taking food waste from consumers is probably the most difficult feedstock to take, right? So I think they just are having to look for different options.

And, you know, we've seen composters, as I heard 13 somebody else mention earlier, that did do two different, you 14 15 know, did different piles. One piles that were approved for 16 use for organic producers and ones that weren't. So I guess 17 we're advocating for -- it is a wicked problem. It's a 18 difficult thing. But we feel like we need to keep the compost standards for -- the compost that's going on organic farms more 19 stringent. So looking at those feedstocks more carefully. 20 21 Okay, thanks. Nate, please, go ahead. CHAIR SMITH: Thanks, Nicole. Let's see, I was 22

22 SECRETARY LEWIS: Thanks, Nicole. Let's see, I was 23 curious, oh, yeah, I'm just getting through my notes here. I 24 was curious about how you all apply the C to N ratio 25 requirement in your evaluation. And whether you would like to

1 see it jettisoned, as we've heard other people comment. 2 MS. DEHNE: I've heard other people comment and I 3 don't feel like I have enough expertise to comment on it. But 4 I have -- this process is making me want to bring some of our 5 composters that are really knowledgeable to the next NOSB comments session so that you can ask them the question, because б 7 I don't know the answer to that. But right now, we're gearing 8 to the NOSB regs. 9 SECRETARY LEWIS: Yeah. Let Carl know we want to see him. 10 11 Exactly. MS. DEHNE: 12 SECRETARY LEWIS: At least -- at least on the Zoom, 13 if not in Portland. MS. DEHNE: Okay. I think Zoom would be -- would be 14 15 accessible. 16 CHAIR SMITH: I was going to say, you know, just 17 thinking of timing, too, like maybe put -- have them put some 18 things in the like open docket, just because it's like -- I don't know, anyway, if we're at proposal stage or whatever, 19 20 like it might be helpful to like hear as the proposal is being 21 written versus when it's already drafted. 22 MS. DEHNE: Got you, yes. Okay. 23 Thanks, Nicole. Anybody else have CHAIR SMITH: questions --24 25 MS. DEHNE: Thank you.

CHAIR SMITH: -- for Nicole? I'm not seeing any.
 Okay, thank you so much, Nicole. Next up we have Heather
 Spalding, then Ginny Olson, and then Mike Dill.

4 MS. SPALDING: Good afternoon, chairman -- excuse me, 5 Chairwoman Smith and members of the NOSB. I'm Heather Spalding, deputy director of Maine Organic Farmers and б Gardeners Association, MOFGA. We're a broad-based community 7 8 working to create a food system that's healthy and fair for Through education, training, and advocacy we're helping 9 all. farmers thrive, making more local organic food available, and 10 11 building sustainable communities. We certify 526 organic farms 12 in processing operations, representing roughly \$120 million in 13 sales. And we have more than 15,000 members. And we're also a member of the National Organic Coalition. 14

I appreciate the opportunity to emphasis a few of the work items of concern to MOFGA, the nitrogen rule, synthetic materials in compost, and inerts and pesticides. Briefly, we urge you and NOP to push EPA to issue comments on the NOSB recommendations in the organic nitrogen omnibus rule and we're just worried that the longer it takes for EPA to respond, the less likely action will happen.

Following up on Nicole's comments, we strongly oppose the allowance of synthetic materials into compost used in organic management. We know that PFOS is showing up in compost. And it's, it's a real concern. We've tested for it.

Maine farms are struggling with the adverse effects of the government turning a blind eye to forever chemicals in biosolids that were used for fertility. And that crisis really should underscore the urgency for adopting a more -- a precautionary approach to materials that we're using in our food and ag system, especially in the organic sector.

7 We have at least 68 farms in Maine that have serious 8 PFOS contamination and more than 600 residential wells in one 9 community have been contaminated by PFOS in sludge used for 10 fertility on neighboring farmland. We know that those numbers 11 are going to go up significantly with EPA's recent announcement 12 about maximum contamination levels in the water, stricter 13 standards.

14 This is not unique to Maine, of course. It's happening everywhere. It's just Maine has been testing. 15 And, 16 again, we've been testing for PFOS in allegedly compostable 17 dinnerware. We know it's showing up and we know it's 18 contaminating the, the compost. So we just really want to take more of a precautionary approach to that. And, and again that 19 also includes plastics that could be, you know, microplastics 20 21 that are increasingly showing up in compost.

And then we also want to urge the NOSB to adopt the rigorous review process for the so-called inert ingredients in pesticides to ensure that the toxic materials that otherwise would not be permitted on the National List are kept out of

products for organic management. And my time is up. But I 1 2 really appreciate all you do. Thank you very much. 3 Thanks so much, Heather. Does anyone CHAIR SMITH: 4 have questions for Heather? I see one from Nate. Nate, 5 please, go ahead. б BOARD MEMBER POWELL-PALM: Hi, Heather. Thanks for 7 your comments today. I wanted to reference back, refer back to 8 your written comments about testing. Is there a reason that certifiers, especially private nonprofit certifiers can't 9 adjust their fee schedules to accommodate any sort of business 10 11 challenge? I understand state certifiers are going to need 12 legislative action to change fee schedules. But your comment said that you have a fixed fee schedule and that would make it 13 hard for you to adequately test your operations. 14 I was 15 wondering why you can't change that as an organization. 16 MS. SPALDING: Yeah, thank you very much for the --17 for the question. And I didn't touch that -- I didn't touch on 18 that in my oral comments. I'm not a superfast talker. So, but yeah, so this is, you know, MOFGA, you know, since the 19 beginning, we're over 50 years old now. We -- since the 20 21 beginning, we've really tried to make certification accessible and affordable for all. 22 23 We work really hard to do that. We are lean and we have a really tight budget. I suppose we could do that, but we 24 really feel that, you know, we want -- we are grateful for all 25

the work that has taken place to uphold the integrity of the organic label, and strengthening organic enforcement is incredibly important. We just want to -- I guess the message that I was trying to get across there is really that we want to make sure that the cost to -- not only to the accredited certifying organics, but also the, the producer seeking certification are not going to be unbearable.

8 And, you know, we already know that the cost share 9 program has been, you know, limited and has been reduced, and then kind of rebounded. There's uncertainty in the future 10 11 about how that funding is going to be available to help people 12 become certified. So I quess the answer is we really would rather be very clear and consistent, and strive to keep our 13 certification costs as low and affordable as possible. 14 And that's just the, the model that we've embraced, rather than, 15 16 you know, sort of an ala carte or just adding on additional 17 fees all the time, and passing those along to our producers.

BOARD MEMBER POWELL-PALM: All right, appreciate that. For importers bringing in say \$50 to \$100 million, do they need a \$1,500 certification? Is it ethical to have them only at a \$1,500 certification?

MS. SPALDING: Yeah, I, I -- it's a good point, right? I mean I, I agree that we're not -- that's, that's sort of a different league from what we're -- what we're working with. But -- 1 BOARD MEMBER POWELL-PALM: Totally, yeah. And I 2 don't meant to put you on the spot or anything. I think it's a 3 really good question. How do we make sure that we're equipped 4 to play ball in the arena that we're currently dealing with to 5 make sure that for all the farmers we've heard from today, we're able to level the playing field in the certification. б So 7 really appreciate your thoughts on that.

8 MS. SPALDING: Yeah. I think that it's, it's certainly something I, I wish that Chris Grigsby, who is our 9 certification, MOFGA's certification services director, I wish 10 11 he were here to answer that question much better than I can. 12 But I certainly will pull together a specific response, you know, more informed response. And we have -- one of our staff 13 members will be in Milwaukee next week and we'll be sure to, to 14 15 convey that.

BOARD MEMBER POWELL-PALM: Perfect. All right, thank you so much.

MS. SPALDING: Thank you.

18

CHAIR SMITH: Thanks, Heather. Nate Lewis, I saw you 19 20 had your hand up and then you took it down. Are you good? 21 Awesome. Thanks so much, Heather, for being with us. Okav. 22 MS. SPALDING: Thank you. 23 CHAIR SMITH: Next up is Ginny Olson, and then Mike Dill, and then Sara Neagu-Reed. Do we have Ginny? 24 MS. ARSENAULT: Ginny is on the line with us. 25 Her

1 phone is unmuted, but her camera is not on. Ginny, it looks 2 like you're not muted on my end. If you're talking, we can't 3 hear you.

MS. HOLM: You can try -- did you try star-6?
CHAIR SMITH: Okay. Maybe we will move onto Mike
Dill and, Ginny, you can try to work on getting yourself
unmuted and we can circle or check on you after Mike. How does
that sound? Great, okay. Mike, name and affiliation, and then
hop to it.

MR. DILL: All right. Good afternoon, my name is Mike Dill and I'm representing the Organic Produce Wholesalers Coalition, otherwise known as OPWC. Today, I'll be commenting on three topics, as well as one general idea for improving the NOSB experience.

First, this meeting was a doozie, 269 page packet, 15 topic areas, 56 sunset materials, and many, many questions for stakeholder response, often several questions per topic. It's really astonishing the amount of thought and work that the 15 -I mean 15 Board members put into this single meeting, as well as the effort required by the organic community to respond.

The problem is such an extensive range and depth of topics makes it impossible for commenters to provide sustansive -- substantive feedback within the 30-day timeframe. OPWC would like to offer the following ideas to foster more in-depth exchange of ideas and information. One, we could move all

discussion topics to a townhall format throughout the year with 1 2 a 60-day advance notice period. Two, dedicate the spring 3 meeting to sunset materials and research priorities only. Three, reserve the fall meeting for proposals and sunset 4 5 materials only, those topics that are up for a vote. And then, four, we could make the spring meeting virtual and the fall б 7 meeting in-person to reduce expenses, cut our carbon footprint, 8 and increase the equity of participation opportunities.

9 Next, OPWC supports the proposal on improving support 10 for organic transition, but we would like the subcommittee to 11 add a reference to the farm bureau in Section 3 of the 12 proposal. We think that this is an important investment in 13 relationship and trust-building with a group that we simply 14 cannot afford to overlook.

15 Additionally, OPWC would like the NOSB to work with stakeholders to create a definition for the terms transition, 16 17 transition and/or transitional land. The industry uses the 18 term transition extensively. Yet, the closest thing we have to a definition in OFA or the NOP is a reference to a three-year 19 eligible period. Neither OFA nor NOP use the term transition 20 21 as it relates to land. The result is that transition is a 22 concept not linked to land undergoing any ecological 23 transition.

24 On the topic of organic food system capacity and 25 constraints, OPWC would like to re-emphasize our concern about the possibility of negative impacts on organic markets if programs and -- if programs incurring transition are not balanced with equal or greater emphasis on growth and development of markets for organic products. In our comments, we offer several suggestions, one of which is prioritizing regulation and enforcement of eco-sustainable regenerative and all other green claims made on agricultural products.

8 Finally, on the topic of compost, OPWC disagrees that biodegradable plastics and other potential components of 9 compost should be included in a definition of the term compost 10 11 feedstocks. Instead, we favor a listing for biodegradable 12 plastics and input such as PLU stickers as compost on 205.601, 13 along with a listing for prohibited feedstocks as well. Regulating compost feedstocks via the National List will allow 14 15 for greater flexibility, the use of annotations to refine 16 listings, and quicker action whenever AST and standards are 17 amended in the future. Thank you.

18 CHAIR SMITH: Thanks, Mike. Questions for Mike? Go19 ahead, Amy.

VICE CHAIR BRUCH: Yeah, Mike, thanks for joining us today. I just wanted to say thank you. I know the time is short. But I appreciate the comments that OPWC did put together. They're really informative. And then not a question, but another just thank you for bringing up the idea we need to reach out to other groups.

The farm bureau comment that you guys wrote about and that you just spoke about I think is really important as we look to grow our industry. We've got reach across the aisle and work with a bunch of different groups, the ones that we haven't worked with before as well. That was really powerful. And I, I am thinking how we can go about doing that in the future. So thanks for bringing that up.

8 MR. DILL: You're welcome. I feel the farm bureau 9 has a lot of influence. And then there's a lot of 10 inconsistency in how those state farm bureaus or even regional 11 farm bureaus work. Some are more friendly to organic and some 12 are we'll just say not so friendly.

13 VICE CHAIR BRUCH: Mm-hmm. Do you have any thoughts 14 on other groups? Farm bureau was a good one. Any other groups 15 come to mind?

I mean there's, there's a lot of them out 16 MR. DILL: 17 You know in terms of groups that are consistent across there. states, I think the farm bureau is, is definitely the one to 18 Again, I just -- yeah, I feel they're, they're the 19 focus on. ones with the most influence. Land grant universities, but 20 21 again that's kind of hit or miss, too. So, yeah. Let's start 22 with the farm bureau. If anything, bring them to where 23 they're, you know, accepting of organic and not advocating against organic. And that's just like if we can get there, 24 I'll be happy. And then we can work on having them actually 25

1 advocate for organic consistently.

2 VICE CHAIR BRUCH: Thank you. 3 Nate, please, go ahead. CHAIR SMITH: BOARD MEMBER POWELL-PALM: Mike, I appreciate your 4 5 comments about it being a lot, a lot of material to work through. But I think you always just sort of, you know, do 6 7 yourself justice by bringing such good comments. And so we're 8 like if you can manage it, it's fine. So you need to lower your game a little bit, because those are great. Really, I 9 just want to say I really appreciate you bringing some events. 10 11 Instead of just complaining about how the process isn't working 12 or how you don't like it, you're telling us what we could try 13 So thank you so much. out.

For the last four, six, eight meetings even we've talked about how do we grow this market. And I just wanted to give a huge shoutout to your Organic is the Answer work, because that is the sort of stuff I was hoping the community would do. And you guys are doing it. So really appreciate all the extra work that's gone into spreading the word about organic.

21 MR. DILL: All right. Well, thank you, Nate. And I 22 just wanted to -- I mean to your point, in the last couple of 23 meetings we have not been able to comment on all the topics we 24 would have liked to have. We did not have a substantive 25 comment on any of the crop insurance stuff, residue testing.

So, you know, we would like to be able to do a little bit more 1 2 homework, a little more research and provide better comments on 3 all those topics. But I think that's where we see that the groups that are commenting on multiple comments -- or topics 4 5 across different scopes, that's where we see that struggle. So if I were just a composter, I could, you know, 60-day or б 7 30-days is great for compost. But when we're trying to hit 8 everything, it's just it's -- we just can't do the quality work So I just hope that, you 9 that we could if we had more time. know, as we think about what the NOSB could become, that we 10 11 look at some of these alternatives and see what the NOP did 12 with like their townhall session prior to SOE or prior to the 13 market development grant. Those were really effective in getting quick feedback. And then something like compost, I 14 think, where we need some quick response and a direction to go, 15 16 that's a good format to, to look at so we don't have to wait 17 six months and then, you know, keep waiting in six-month 18 increments. So, anyways, thanks.

Thank you again, yes. 19 BOARD MEMBER POWELL-PALM: CHAIR SMITH: Nate, you took the words right out of 20 I was also going to say thanks for coming with out 21 my mouth. 22 of the box thinking and solutions. It's certainly something 23 that we will sure talk more about amongst ourselves and with the program to see if any of those are actionable. 24 So 25 appreciate it. Go ahead, Jerry.

BOARD MEMBER D'AMORE: I just want to say thank you for quietly acknowledging that we're operating a full person short now as a board. Thanks for that.

MR. DILL: Yeah. So and I, I apologize. At every meeting I wish that I would save a little bit of room to give some acknowledgement to how great the Board is. But every word counts when we're looking to keep it at 500 words or less with a minutes. And so I apologize, but you all are doing fantastic work and we really appreciate everything you do.

10 CHAIR SMITH: Okay. Wait, don't go anywhere yet.11 Wood, go ahead.

12 BOARD MEMBER TURNER: Yeah, I just want to say, Mike, I think you really did summarize though I think just to -- just 13 to put a point on that. You know you were talking about trying 14 to be an expert on all the different issues, like if you were -15 - if you were one -- if you were focused on one area, one area 16 17 of the value chain, you could -- you could really deliver 18 highly substantive comments. And I think that, to me, when I heard you say that, that actually to me is the challenge that 19 we face as a 14-person body, trying to figure out how to be 20 21 experts on all these issues across the value chain. It's very, 22 very, very difficult. So thank you for saying that.

23 MR. DILL: No, absolutely. And it's, again, it's 24 amazing what you -- what you're doing. And for us, one area is 25 produce. So we try to do logistics, soil, crop production, I

177

mean every aspect of, of produce. And so, yeah, I totally get 1 2 it. It's overwhelming. I don't know how you all stay on top 3 But kudos to you all, especially -of it.

4 CHAIR SMITH: It's really awesome and you should --5 there's going to be a call for nominations coming up very soon, and it's very rewarding and a really awesome experience, so б 7 come join our group. Don't let Mike and Wood scare you off. 8 MR. DILL: No comment. We'll see you in Milwaukee. 9 BOARD MEMBER TURNER: I'm speaking through -- I'm

speaking through the -- I'm not trying to scare anybody. 10

11 BOARD MEMBER JEFFREY: But, yeah, you need to have a 12 lot of fun with your NOSB friends, so here, here, Madam Chair. 13

MR. DILL: All right, thank you.

16

CHAIR SMITH: Thanks, Mike. Okay. Ginny, do we have 14 15 your sound working?

MS. OLSON: Okay. Can you hear me now?

17 CHAIR SMITH: Yes. Okay, great. So one second. So 18 we'll have Ginny, and then we'll have Sara Neagu-Reed, and then Alice Runde. Go ahead and state your name and affiliation, and 19 20 then you can get started.

21 MS. OLSON: Okay. Hi, I'm Ginny Olson. I'm a crop 22 insurance agent with Lockton Companies. And I actually have a 23 positive and then I have a question. So the positive is on differing practices. I, I recently had a farmer who has been 24 planting spring rye with his soybeans. And I submitted the 25

request to RME to get approval for it, because he does not roll
 or crimp his rye.

So I was asking for approval to insure his soybeans with the spring planted rye and he would let the rye go dormant. And actually RME came back and said they consider that a good growing practice, so I didn't have to submit the request. And my farmer can go ahead and insure it without any issue. So that's a huge win. It was a really good positive. So, yeah, I'm just happy on that.

And so the other -- the other point that I have or 10 11 it's actually a question is, you know, Bryce had mentioned 12 earlier like, you know, there are farmers that are leaving organic. From the crop insurance world, one of the reasons I 13 think, personally, is that it's, it's really hard to get that 14 yield built up. And so, for example, if I have a farmer that 15 16 is transitioning to organic completely new to organics, the first four years I have to give them -- or actually the first 17 18 three, if he gets 100 percent of the county T as he built up his history for transition then, of course, his average yield 19 20 increases.

So, for example, with the transition, it's 140 bushel farm. He'll, he'll start building up his, his yield history on his transition, and then the fourth year he becomes organic in the crop insurance world. When he becomes organic then I have to get -- I have to go back to the start and give him 100

percent county T. So, for example, 140 county T on transition
 and then he starts over on organic, then he gets 140.

3 What my question is, is, you know, do you think RME 4 would consider or are they considering possibly letting us use 5 those transitional yields for his organic. Because many times, you know, by the time he has his transitional yield built up, б 7 let's say that 140 T is now 170 bushel average, could I use 8 that 170 bushel when he becomes organic. And I'm just curious to see if, if you're heard that request or if you know that's 9 in the works possibly. 10

11 CHAIR SMITH: Okay. Thanks for your comment, Ginny. 12 It looks like maybe Amy and Nate had some comments back and 13 some questions for you. And so, Amy, please go ahead.

VICE CHAIR BRUCH: Yeah. Thanks, Kyla. Ginny, 14 thanks for joining us today and then providing your oral 15 16 comments. It's always nice to hear about the progress we're 17 making with your first comment on the producer with good 18 farming practices. That's really a great story of success. We've got, you know, we've got to celebrate the successes and 19 20 we've still got to work on things.

And your part two, you kind of posed a question to the Board on that one. I'm going to pose it back to you as an agent. It seems like you've participated in the process before. You've worked with a lot of organic and transition producers. Would that be beneficial what you -- what your

question was if from an agent perspective, if producers are able to use their transitional yield information to help quickly or more quickly build their organic APH?

MS. OLSON: I, personally, think so just because I see that that yield is -- it keeps increasing over time. And so I, I think it's -- I, personally, think so. I think you can definitely see the, the mind shift change when they realize, oh, now I have to -- you know, I'm building -- I'm building up my yield and now I have to go back to the beginning when I get to organic.

11 So, yeah, I, personally, think so. I think it would be a great option maybe to give that, you know, let the farmer 12 choose maybe. Because back in the day -- back in the day, you 13 know, when farmers were conventional and then they were 14 transitioning, we could use their conventional yield. Now I'm 15 16 not saying we go back to using conventional yields. But I'm 17 just saying if they're, if they're in that transition stage 18 would that be a potential just to give the farmer an option. AUTOMATED VOICE: Recording stopped. 19 20 VICE CHAIR BRUCH: Thank you. That's really helpful, 21 Ginny. Appreciate it. I don't know if that was intentional or 22 CHAIR SMITH: 23 if someone pressed the recording pause button? AUTOMATED VOICE: Recording in progress. 24 Go ahead, Nate. 25 CHAIR SMITH: Thanks.

BOARD MEMBER POWELL-PALM: Thanks, Ginny, so much for your comment. I really appreciate you both bringing the good news and I want to just, you know, again give my colleague Amy Bruch a shoutout for making crop insurance a focus of the Board over the last few years. We are seeing tangible changes and it's really incredible.

7 But I also want to thank you for that question, 8 because that very question is the sort of data gathering that 9 then, you know, when we come up with recommendations or ideas, we can put forth the idea of using that transitional history 10 11 and probably into the organic yield history. So thanks for 12 thinking about these things and bringing ideas, rather than just, you know, just complaints or just questions. So really 13 appreciate the solution oriented-nature of your comments. 14

15

MS. OLSON: Thank you.

16 CHAIR SMITH: Okay. Thanks for being with us today, 17 Ginny. Thanks for your comments. Glad we got your sound 18 working.

19

MS. OLSON: Thank you.

CHAIR SMITH: Okay. Up next we have Sara Neagu-Reed, followed by Alice Runde, and then Milo Petruziello. Okay. Sara, state your name and affiliation, and then you can get started. Thanks.

24MS. NEAGU-REED: Sounds good. Good afternoon. My25name is Sara Neagu-Reed and I serve as the director of

production, environmental policy, at the International Fresh Produce Association. As my colleague, Emily Moyer, shared earlier, our trade association represents over 2,500 companies from every global fresh produce supply chain segment, including over 500 companies directly involved in the organic fresh fruit, vegetables, and floral supply chain.

For the interest of time, I will focus my comments
today on the residue testing for a global supply chain and
climate induced farming risk in crop insurance discussion
documents.

11 First, in regard to the residue testing for a global 12 supply chain discussion document, IFPA believes it is critical 13 to take appropriate steps to ensure that organic operations are compliant with regulations, deter fraud, and provide 14 15 contaminated products from entering the organic supply chain. 16 However, creating more rigorous testing requirements must be 17 done cheerfully to ensure standards can be met and are not a 18 barrier to organic production.

19 Currently, residue testing is already conducted on 20 organic farms through third party certifiers. Additionally, 21 organic certifiers are required to sample five percent of their 22 clients. As NOSB considers this recommendation, it is 23 essential that any enforcement updates to residue testing 24 remains science-based and consistent with international 25 standards. Moreover, IFPA members have expressed concern if

1 testing gets more refined that producers will have difficulty 2 detecting residue at increasingly low levels, which would 3 negatively impact organic designations.

4 In regard to the climate-induced farming risk and 5 crop insurance discussion document, despite clear climate benefits there remains an existing gap in insurance available б 7 with these organic products. For example, one member explained 8 that they recently suffered from a virus outbreak with organic tomatoes across Arizona farms. Unfortunately, crop insurance 9 is not available to those growers in the state and as a result 10 11 have been struggling with solutions to cover their losses.

12 IFPA supports quality factor consideration during 13 loss adjustment, assuring agents have expertise in organic markets for revenue protection and ensuring adequate length of 14 15 timing for infield adjuster review. Additionally, I want to 16 reiterate IFPA's support for the continued use of objective, 17 science-based decision-making as NOSB considers proposed changes to the National List. Each of the materials being 18 reviewed is of utmost importance to organic producers, which 19 our weigh-in comments elaborate on. 20

21 We are encouraged as always by analysts thoughtful 22 discussions of critical issues impacting the organic fresh 23 produce industry. Thank you for your time today.

24 CHAIR SMITH: Thanks so much, Sara. It looks like 25 you have a question from Wood. Wood, please, go ahead.

BOARD MEMBER TURNER: Sara, I just want to make sure 1 2 I understand what you just said. I thought I heard you say 3 more refined testing would limit residue detection at low 4 levels. Is that -- did you say that? And could you -- could 5 you help me understand what that means? I didn't follow that comment, if that's what you said. You said -- I wrote down б 7 more refined testing would limit residue detection in low 8 levels. Is that wrong or did I --9 MS. NEAGU-REED: Oh, can you hear me? I was trying to unmute myself when you were speaking and I was unable to do 10 11 Can you hear me now? so. 12 CHAIR SMITH: Yeah, you're good. Okay. Can you -- I'm sorry, can you 13 MS. NEAGU-REED: repeat the question? 14 15 BOARD MEMBER TURNER: I wrote down that you said more refined testing would limit residue detection at low levels. 16 Т 17 just want to make sure I heard that correctly. And if I did, 18 what is -- can you say more about that? MS. NEAGU-REED: Yes, absolutely. It was just a 19 concern that if there was more rigorous testing that our 20 21 growers would have more difficulty in, in detecting the residue. 22 23 BOARD MEMBER TURNER: Okay. I'm not sure I understand that, but feel free to say more if you want. 24 I'm just trying to -- that doesn't make sense to me, but --25

CHAIR SMITH: Amy, please, go ahead.

1

25

VICE CHAIR BRUCH: Sure. Sara, thanks for joining us today and providing oral comments that compliment your written comments. It's helpful to have for the crop insurance discussion produce viewpoints and examples. And I'm happy that you brought a few of those forward in your written comments.

7 But I had a question on your residue testing 8 comments, as well. You mentioned that we need to try to maintain consistency with international standards. I believe 9 that's what, what you had mentioned. Can you elaborate a 10 11 little bit more on that, especially since the data that we're receiving is Europe has pretty strict standards and actually 12 more standards for residue testing potentially than what the 13 U.S. has. 14

MS. NEAGU-REED: Yeah, absolutely. 15 And that is 16 something that our growers have indicated is, is concerning to 17 them when it comes to trying to review what the EU standards 18 are versus the U.S., especially with more that they are pursuing and for the perspective they're receiving. 19 To get some more detailed responses on exactly what those concerns 20 21 are, I would have to go back to our group and, and share those 22 back with you all.

23 VICE CHAIR BRUCH: Sure, that would be great, if you 24 don't mind.

MS. NEAGU-REED: Absolutely.

CHAIR SMITH: Sara, if you are able to get that 1 2 information, then you can pass it to Michelle Arsenault. 3 MS. NEAGU-REED: Yes. CHAIR SMITH: And she can forward it to the rest of 4 5 the Board. Nate has a question. And then I see Franklin's б hand up, as well. So, Nate, please, go ahead. 7 BOARD MEMBER POWELL-PALM: I just wanted to follow-up 8 a little bit with what you were saying with the question of If I heard -- if I'm hearing you right, it's more so 9 Wood. that the more we test, the more we'll buy. Not the more we 10 test, the less we'll buy. 11 Correct? MS. NEAGU-REED: That's correct. 12 I'm sorry if I 13 wasn't clear on that. BOARD MEMBER POWELL-PALM: Okay, thank you. 14 CHAIR SMITH: Okay. Good clarification there. 15 Wood, 16 did that help you? 17 BOARD MEMBER TURNER: Immensely, thank you. 18 CHAIR SMITH: Great. Franklin, please, go ahead. BOARD MEMBER QUARCOO: Well, I was going to follow-up 19 20 on that question, but this clarifies it for me, too. 21 CHAIR SMITH: Wonderful. 22 MS. NEAGU-REED: My apologies for the distraction of 23 the unmuting and not being clear on that. CHAIR SMITH: No worries. Yeah, we should maybe warn 24 25 commenters, too, like on the in-between times, like between,

anyway, that you have to like sort of stay unmuted or else you 1 2 get locked out of the mute. Anyway, thanks so much, Sara, for 3 being with us today and thanks for your comments. Okay. Next up we have Alice Runde, then Milo Petruziello, and then Justin 4 5 Alice, you have some slides which are coming up, Raikes. б perfect. Please state your name and affiliation, and then you 7 can get started.

8 MS. RUNDE: Thanks, Kyla. Good afternoon. My name 9 is Alice Runde. I'm the operations director at the National 10 Organic Coalition or NOC. Next slide, please.

NOC is extremely grateful for the tremendous work that the NOSB leads and we think it's crucial for the NOSB as public representatives of the organic community to actively seek to center racial equity in the organic movement. Racial equity needs to be centered in organic for the following reasons:

One, diversity is an essential tenet of organic. Also, system increases has disenfranchised farmers of color. We need to acknowledge indigenous knowledge and the narratives elevated when talking about organic practices. And, finally, collective liberation, understanding that addressing challenges that farmers of color face at disproportionate rates would help all farmers. Next slide, please.

24The USDA equity commission as was referenced in25previous comments analyze how USDA's programs and policies

1 contribute to suspending discrimination. In February, the 2 commission published their final report which provided 66 3 recommendations. In our written comments, we highlight a few 4 examples of recommendations that seem particularly relevant to 5 the NOSB and NOP. Next slide, please.

Here, I'd like to elevate the first recommendation in б 7 the reports, institutionalized equity. As Lily Hawkins of OFA 8 said, the report says lasting and long-term organizational change requires consistent leadership attention, adequate 9 resources, and accountability. Especially because NOSB members 10 11 only, only certify the appointment, it is important that any 12 equity practices, resources, and accountability mechanisms be institutionalized in the NOSB processes and supported by the 13 NOP. We encourage the NOSB to work on this idea and to ask for 14 recommendations from the public and organizations experienced 15 16 in this area. Next slide, please.

On this slide and in our written comments, NOC suggests several ways to institutionalize equity in NOSB processes. For example, by, by including racial equity training in the onboarding process for new NOSB members and by including work agenda items that directly address racial equity in organic. Next slide.

An example of institutionalizing equity would be to build a culture of equity inclusion at the NOSB level and adjust barriers to participation for diverse representation on the NOSB. One way to a culture of equity inclusion at the NOSB level would be to set agreements about how to work together. Everyone appointed at the Board was selected because of their outstanding skillsets, but it takes a group acknowledgement to make sure that all Board members have equal chances to voice their opinions.

Community agreements can help make power dynamics 7 8 more visible and ensure everyone in the room gets to contribute One way to address various -- for diverse 9 to the process. representation on the NOSB is to leverage a technical 10 11 specialist role. Their focus is to ease the burden of Board 12 service. We would like further clarification on the process 13 that Board members use to request support and if there are limits to the support offered. We believe that the NOP should 14 not be a gatekeeper for support or output of that staff, and in 15 16 our written comments we provide suggestions for a transparent 17 process. With many upcoming Board positions needing to be 18 filled, we encourage this transparency so that we talk -- when we talk and encourage qualified people to apply, we can 19 20 accurately tell them what support they might be able to expect.

21 Thank you so much for your work and your commitment 22 to organic agriculture.

CHAIR SMITH: Thanks so much, Alice. Any -- I can't see. It looks like there's two hands raised and that would be Allison and then Wood. Allison, please, go ahead.

1 BOARD MEMBER JOHNSON: Thanks so much for your 2 comments, Alice. I'm sure NOC and OFA's and other's attention 3 to the racial equity in organic, I'm really glad to see it 4 continuing to come up as a thread and we're spending a lot of 5 time thinking about what we can put into action as a Board. We lost your last slide there, but I would love to see a little б 7 bit more. You're suggesting barrier and participation in 8 organic, if we could take another look. If you have thoughts about what else the Board can do where we're looking at ways to 9 explore the Equity Commission's report and recommendations in 10 11 the fall, and really welcome other thoughts about how we can 12 address some of these barriers from where the Board sits.

13 MS. RUNDE: Yeah, thank you so much for the question. 14 So this slide was also referenced by Amy. Thank you so much 15 for pointing it out. It's in our written comments. This is a 16 resource that was developed thanks in large part to a human 17 capital initiative with OFA, NOC, IOIA, FM North America, ACA, 18 and it really highlights some of the barriers to organic certification. And we've done a few exercises with hundreds of 19 people trying to identify which points of these barriers could 20 21 be tackled by which types of organizations. And I think we all plug in on specific areas. 22

I think it would be interesting for the NOSB, themselves, to determine which areas might be most relevant to the NOSB's work depending on the work agenda items and your

priorities. And then I'm happy to work with NOC members as 1 2 well to determine where we think the NOSB might have most leverage in addressing these barriers. 3 4 BOARD MEMBER JOHNSON: Great. Thanks so much. 5 MS. RUNDE: Thanks so much for the question, Allison. б CHAIR SMITH: Wood, please, go ahead. 7 BOARD MEMBER TURNER: Alice, great comments. Ι 8 really appreciate your comments and this is very important. What I really love about them, kind of to Mike's comments 9 earlier, is how, how solution-oriented they are and how 10 11 action-oriented they are. So thank you for that. 12 I, I just want to point out that this is a question specifically about research priorities. And I know we heard 13 several comments in the written comments about including 14 content or including research priorities around racial equity. 15 16 And I, I don't -- what I didn't see in those comments were what 17 those -- what those research priorities might be, what those 18 research topics might be. I think where your -- where you're focusing your comments around actions is great. I just don't 19 quite understand the research piece of it. 20 21 And so I, I'd love to hear more about that if you all 22 those any concrete thoughts on that at this stage or I can just 23 -- I'm just floating the comment out to the community to say, hey, if you want to -- if you want to see these in the research 24 priority, let's talk specifically about what you want to know 25

1 about.

2	MS. RUNDE: Yeah, that's a really great question.
3	And I, I'm also very action-oriented, so I really appreciate
4	that comment. I think one thing we've elevated in previous
5	versions of our comments are research on barriers to organic
6	certification. And I think we have more and more research
7	around that and we've been able to synthesize it. And I think
8	now the research that's needed is how to address those
9	barriers. And I'm sorry I wasn't that clear in our comments,
10	but I'm happy to circle back with more tangible suggestions.
11	BOARD MEMBER TURNER: That's great. I just I'm
12	just trying to I'm just trying to actually just figure out
13	what the if there is a research question. And so that's
14	that helps me. That helps me, thanks.
15	MS. RUNDE: Thank you.
16	CHAIR SMITH: Thanks, Alice. I was just going to say
17	surprisingly five years goes darn quick, like shocking. Like
18	we start here like, oh, my gosh, five years is forever, and
19	then it's like a blink of an eye really. I believe there will
20	be a report out on during PDS on the wonderful work that our
21	food technologist support persons have been providing to the
22	Board. So you can look forward to that and hopefully that will
23	help in your engagement with potential candidates. Amy, you
24	have a question. Please, go ahead.
25	VICE CHAIR BRUCH: Thank you, Kyla. Thank you,

Alice, for your comments, really appreciate them and the 1 2 written ones, as well. Just kind of a thought question. We've 3 heard from a lot of producers that are organically certified right now with some of the challenges that they're 4 5 experiencing. For the community, how should we balance our time for recruitment of new organic producers and the retention б 7 of the current ones in our -- in our existing community. What 8 should be the balance, the ratio of that?

9 MS. RUNDE: I'm laughing because I feel like it's such huge question that I'm not quite in a position to answer. 10 11 But I will put in a plug for our meeting in Milwaukee, we'll 12 have a panel of farmers, local farmers, six local farmers, a couple of which have been certified and have chosen not to 13 certify anymore. So I think hearing from them directly about 14 why those chose not to certify anymore and are still using a 15 16 lot of organic practices would be really helpful in sharing 17 that messages -- that message as well with us as organic 18 advocates. I'm sorry, I don't have a good answer.

VICE CHAIR BRUCH: No problem. 19 Thank you. And 20 thanks for letting us know about that panel, appreciate it. 21 Thanks, Alice. Thanks for spending CHAIR SMITH: 22 some time with us today and for your comments. 23 MS. RUNDE: Yeah, thank you so much. 24 CHAIR SMITH: Yep. Okay, up next we have Milo Petruziello, Justin Raikes is after Milo. And then Jackie 25

DeMinter. Milo, please, state your name and affiliation, and
 then you can get started.

MR. PETRUZIELLO: Hi, good afternoon. 3 I'm Milo 4 Petruziello, policy director at Ohio Ecological Food and Farm 5 Association. Our organic certification program certifies about 1,100 organic farmers and food processors in 12 states. And б 7 our policy work represents a broad coalition of farmers, 8 gardeners, and food advocates across Ohio and our certification 9 region. I appreciate the opportunity to comment on behalf of our organization, the farmers who certify, and our 10 11 non-certified members, particularly those who are non-farm --12 who do not farm and rely on the integrity of the organic label 13 in making food choices.

14 So I'm going to comment related to the possibility of allowing compostable packaging that meets certain ASTM 15 16 standards and to organic compost. We are quite alarmed by this 17 possibility. We think this creates an unacceptable avenue for 18 these products, many of which contain PFOS, as Heather pointed out earlier. And would put them in position to be allowed on 19 organic farms with no scrutiny of their composition. 20 This 21 would represent an official approval for applying PFOS to 22 organic farms is our concern.

You know, we don't see how organic farmers would benefit. There is no evidence that allowing these materials in organic compost would improve its quality, posture or 1 availability. We are concerned it would negative affect 2 quality, in fact, as composting -- we're concerned that 3 composting is not sufficient to convert these products not non-toxic substances that can be utilized by plants and soil 4 5 organisms.

And we fear that the risk to public faith in organics б 7 is massive. Awareness of the pervasiveness of PFSO and its 8 health risks is increasing. I mean you can see it in a simple Google search. PFOS has been linked to liver and kidney 9 disease, alter thyroid function, led to insulin degradation, 10 11 adverse reproductive and developmental outcomes, and cancer. 12 These chemicals cycle through the soil, have appeared in crops, 13 dairy, and meat products.

14 We know that PFOS contamination is already affecting farms as instances in Michigan and Maine unfortunately 15 16 demonstrated. And allowing compostable products treated with PFOS into organic production would only make this problem 17 18 worse. So I, I really urge the NOSB to consider the impact approving these products would have on public trust. You can 19 imagine a world where the average consumer buying organic to 20 21 avoid chemical exposure learns that PFOS is expressly allowed 22 in organic compost. And what would we say to that person.

23 So I just want to thank all of you for your service to the organic community and for taking my comments. 24 25

Thanks so much, Milo. Questions for CHAIR SMITH:

1 Milo? I see Nate has his hand up. Nate, please, go ahead. 2 SECRETARY LEWIS: Hi, Milo. I had a question about 3 OFA's comments on methionine. And I, I was intrigued, because 4 you offer the possibility of aligning with or you suggest the 5 possibility of aligning with Canada and the EU where we would make natural sources the first option, and then methionine б 7 would be a second option of the natural sources are not 8 available.

9 And my clarification question is whether or not you 10 would support such a thing with the quantity restrictions that 11 we currently have of two pounds per ton or would it be not 12 restrictions except for that natural preference in the -- in 13 the annotation? And Milo probably can't unmute himself. There 14 you go.

MR. PETRUZIELLO: Thank you. Thank you for that question, Nate. Honestly, I would really refer that comment to one of my colleagues, either Sal Bigham (phonetic) or Matt Bagley (phonetic), whom I believe are both on the schedule to comment. That really their, their expertise and they can speak to that part.

21 SECRETARY LEWIS: Great. I will repeat the question 22 then and maybe make it a little more tight. That wasn't a very 23 tight question. So thanks.

24 CHAIR SMITH: Okay. I don't see any other questions 25 for you, Milo. Thanks so much for your comments today and

1 spending some time with us.

2

5

MR. PETRUZIELLO: Thank you.

3 CHAIR SMITH: Okay. Up next we have Justin Raikes,4 then Jackie DeMinter, and then Mark Way.

MR. RAIKES: Hello?

6 CHAIR SMITH: Yep, I can hear you. Yep, name and 7 affiliation, and then you can get started.

8 MR. RAIKES: Yeah, absolutely. I'm Justin Raikes. 9 I'm a fifth generation row crop farmer in Nebraska who is able to return to the farm because of the NOP. You know, unlike so 10 11 many other types of farming discussed years ago, the promise of 12 organic production is included a steady market where prices didn't crash or skyrocket. You know, in the last two years 13 we've gone from a \$50 a bushel of organic soybeans down to \$17 14 a bushel soybeans. And it's tough to keep going with prices 15 like that. 16

As you know, large price movements in one organic commodity will impact all others that could be grown on the same acre. So that volatility has trickled down into every other crop we could potentially grow. And for us that's currently corn, wheat, alfalfa, peas, buckwheat, soybeans, and rye. And we've seen movements in all of those markets.

23 So on our farm, we, we strive to pay living wages to 24 all of our, you know, all of our employees. We support a lot 25 of families. We've been able to do that and provide stability

for those folks and those families because of the steady price 1 2 environment, similar to when we, we first got started. You 3 know, this price volatility really has a lot to do with this flood of imports that's coming in. And there's ample evidence 4 5 that these imports are coming from countries that a) don't have their own secure domestic food supplies and b) let alone a б 7 regulatory framework that is comparable to NOP and, you know, 8 reflects the work that you all put into this.

9 The other thing I want to say is imports also appear 10 to fail a mass balance -- a basic mass balance test like the 11 ones we are required to do as part of our certification every 12 year. We're grateful the NOSB is working to ensure integrity 13 is being maintained and the playing field level discussion 14 document on testing at CACS. Read that document and the SOE 15 rule. But we also need more. And we appreciate the SOE rule.

16 We fully support increased testing. This five 17 percent rule is just not enough. Practically speaking, all of 18 our production gets tested. Why do we have different standards is the practical question. We need everyone to be talking 19 about how we can place value on domestic organic commodities 20 21 market and the benefit it brings to farmers keeps America's organic farmers growing. This has to work for us as a business 22 23 and everybody else. Cheap foreign supply will not.

Furthermore, many efforts to encourage newtransitional acres will not succeed if the organic standards

are not uniformly enforced. Finally, I just wanted to thank 1 2 RMA for continuing to make steady progress. Appreciate all the incremental changes there. And we would also support the 3 carryover transition yield to an organic search. Thank you. 4 5 Thanks, Justin. Nate, please, go CHAIR SMITH: ahead. б 7 BOARD MEMBER POWELL-PALM: Thank you, Justin, Yeah. 8 for taking the time to be with us today. Just to be clear, you're -- I know you are, you're a fan of using testing as an 9 enhanced tool to make sure the playing field is level. Is that 10 11 correct? 12 MR. RAIKES: Absolutely. BOARD MEMBER POWELL-PALM: Okay, really appreciate 13 14 it. Thank you. Kim, please, go ahead. 15 CHAIR SMITH: 16 BOARD MEMBER HUSEMAN: Thank you, Justin, for your 17 comments. I have two questions. The first one is around price 18 volatility. And help me understand outside of a global supply chain, what other tools would be effective to help mitigate the 19 volatile environment of organic farming? 20 MR. RAIKES: Well, I think, you know, there have been 21 22 a lot of ideas discussed in these -- in these meetings. You 23 know, I think every effort that can be made to ensure integrity helps so that we're dealing with the same, you know, the, the 24 25 legitimate pool of acres, let's say, to start with.

The volatility, to me, is new because of, you know, 1 2 to me it looks like there's a lot of linkage with conventional 3 or conventional pricing, which ought not really be there. And so I think, you know, part of my argument here is that's, 4 5 that's volatility that shouldn't exist or should take -- or should have a lot different shape than it's -- than it's been б taking. And our observation is that that's increased 7 8 dramatically over the time that we've been -- we've been in the 9 program.

So, you know, in terms of additional, additional 10 11 steps, you know, outside of the enforcement of the rules, you 12 know, I think the efforts underway on the crop insurance front are all positive to keep the, you know, producers supported in 13 the event of failures and so forth. And, you know, that's, 14 that's been proven to be a key part of the price volatility 15 16 solution on the conventional side as well. You know, I --17 those are the big ones to me is let's make sure we're enforcing 18 the rules evenly and, you know, encouraging. And if we are doing that, transitioning new acres in is easier, frankly. And 19 so I mean that's the long-term solution. And that's, that's 20 21 what I -- I get a little frustrated when I hear certain 22 end-users talking about the need for imports because the 23 domestic production doesn't exist or the volatility of domestic If we had more acres there, you know, we would 24 production. have a bigger base to work off of, which inherently is going to 25

reduce some of the production. We're not going to have more
 acres if we're, we're undercutting domestic price.

3 BOARD MEMBER HUSEMAN: Okay. So as we talk about 4 price discovery and volatility, we've go the supply side that 5 we've discussed. But then there is the demand side, right? That's the other -- the other half to this price discovery. б 7 And any thoughts on how we can promote some of the, the 8 demands? I'm seeing that there is some concern there with the 9 elevated growth patterns that we saw in some organic streams that would be tributary to your supply -- to your supply. 10 11 Those, those have been challenged as well. So I think that's 12 on the demand side.

MR. RAIKES: Well, look, I, I think that if I'm following the thrust of your question here, I think, you know, we have livestock as well, so we sit on conventional, so we --Is see this on both sides. And you can't have, you know, sky high prices and have the livestock portion of this thing work to the extent we're in the feed grain. That's a little bit different issue on the food grade side.

But, you know, that's kind of the point, though, is if we've got -- the source of extreme volatility here I think is as, you know, as we've kind of cracked down on some stuff that maybe wasn't, you know, so legit, you know, you create this temporary period where everyone, you know, there's big exposure on the buy side and, and, you know, that's going to be bad for the dairy guys and bad for the, you know, the demand
 side of the equation.

3 What we want I think is the same thing as what they 4 want, which is we want a steady, you know, we don't need the 5 sky high. We need steady. And that's, that's kind of what we're arguing for. And I think that's how both grow. б Because 7 you can see absolutely on the demand side, you can see, you 8 know serious destruction to your business and your ability to continue on is a growing concern if you've got to live through 9 these massive price spikes and you get, you know, positioned 10 11 wrong into them or something like that.

12 So I, I agree. And I think that I totally understand 13 where the other side of the trade is coming from. And to me the answer is that's why we kind of -- we've kind of got to get 14 to a steady middle ground where, you know, not both sides are 15 16 getting screwed or one side is getting screwed for a while, 17 then the other side gets screwed, you know, and vice versa. 18 And I think, I think having this outside, more of this outside supply that as a producer it's hard to know what's going on 19 with that and how to hedge against that or, you know, how to 20 21 deal with that exactly, it just makes everything more difficult. 22

So I -- partly, too, a pitch for sunlight, you know,
because transparency is a good business action on this
situation.

1 BOARD MEMBER HUSEMAN: I like that wording. Okav. 2 And then my last component to this is can you elaborate on any 3 fragmented logistics or, you know, your outlets, I think you 4 mentioned maybe food grade is kind of where you like to go with 5 your products. Can you speak to the logistics aspect of it, whether it's rail, trucked, off-farm pickup, deliver to an б 7 elevator, and if you're noticing anything within your community that would or would not lean toward some constraints in that 8 9 spectrum.

The vast majority of our trade is truck. 10 MR. RAIKES: 11 That's regional truck. We don't do a lot of rail, so I don't really have any comments there. You know I think a lot of 12 industries are, are seeing the same thing that's happening 13 generally in ag right now, where we had this mass inflationary 14 period and then now we're kind of in a contraction. So there's 15 16 a lot of pressure on the truckers. There's a lot of pressure 17 on everybody on that across a lot of different industries right 18 now.

BOARD MEMBER HUSEMAN: Do you truck your own products or do you use third-party?

MR. RAIKES: We third-party the majority of it. BOARD MEMBER HUSEMAN: Okay. And have you noticed any changes in those -- I'm sorry, Jerry. I promise this is my last component. But have you noticed any inflation or any changes in the cost for, for the trucking aspect to your --

MR. RAIKES: Yeah, absolutely. I mean the insurance stuff is crazy. The, the parts are crazy. The materials are crazy. I mean fuel is moderated somewhat. But everything else is, is not. I particular stated the insurance piece.

5 BOARD MEMBER HUSEMAN: Okay. Well, thank you, and I'll just follow -- finish off with saying that I hear your, б 7 your thoughts when we talk about the end-user and the demand 8 side of it. And we start throwing in these pieces and then, you know, we get to that final price as it makes its way to the 9 door, to be processed for consumption. You don't want to lose 10 11 focus on that, because that makes an uphill battle for you, Thanks for 12 too, to get that product there. So thanks again. Thanks for -- I'm in Colorado, so not too far from 13 farming. you. Colder weather is ahead. You're going to get that rain 14 hopefully before you get some product in the ground. Maybe 15 16 you've already got it there, but I really appreciate all you 17 do.

18 MR. RAIKES: No, thank you.

19 CHAIR SMITH: Okay, Jerry. Please, go ahead.
20 BOARD MEMBER D'AMORE: Hey, Justin. Nice hearing
21 from you. I, I had a tough time following some of it. But I
22 think generally speaking you were addressing the overall
23 profitability back to the farm. And then there are a lot of
24 things that, that are, are coming at you sideways that prevent
25 that. But if I listened carefully and this is just sort of a

1 yes or no question, would most of your concerns if not all of 2 your concerns be fully addressed by, quote, a level playing 3 field? Yeah, I think so. 4 MR. RAIKES: 5 BOARD MEMBER D'AMORE: Great. That, yeah, thank you б very much. 7 No problem. MR. RAIKES: 8 CHAIR SMITH: The devil is in the details on how to 9 get there, though, Jerry. BOARD MEMBER D'AMORE: Oh, come on, school mom. 10 Give 11 me a break. 12 Brian, please, go ahead. CHAIR SMITH: BOARD MEMBER CALDWELL: Yeah, Justin, thank you so 13 I, I think given you kind of broaden out some of these 14 much. issues with, with the price volatility and, and spikes and 15 16 valleys. And just want -- I represent, sit in the consumer, 17 public interest chair here and just want to say that, it hurts 18 the farmers. It hurts the crop growers. It hurts the livestock producers. And then it goes to the consumers, who 19 20 both lose faith in the product and are -- and are hit by, you know, high prices. 21 22 MR. RAIKES: Yes. 23 BOARD MEMBER CALDWELL: So we're, we're smashing the 24 whole system when, when we have these spikes. So thank you 25 very much for, for bringing that to us.

MR. RAIKES: Thank you.

1

2 CHAIR SMITH: Okay. Thanks, Justin. Appreciate your
3 comments and for spending some time with us, today. Next up,
4 we have Jackie DeMinter, then Mark Way, and then Richard
5 Tetherow.

6 MS. DeMINTER: Good afternoon. My name is Jackie 7 DeMinter. I am a certification policy manager at MOSA. Thank 8 you for the opportunity to comment. We certify over 1,820 9 organic operations in the U.S. I'm summarizing a few points 10 from our written comments today.

11 Residue testing is an important part of verifying 12 organic integrity. And updates to residue testing requirements 13 will need to consider how to incorporate all desired residues 14 and compliance measures. It is important residue testing have 15 action levels and guidance.

16 670(b) does not seem to include collecting samples of 17 fertility inputs or livestock waste. This test -- this ties 18 into the sunset reviews for moxidectin and for fenbendazole 19 (phonetic) which asks about testing to verify compliance with 20 emergency use. We do not require test results.

Fecal testing is encouraged at 238(d) under fecal monitoring. And we verify the pest management plan in place, but testing is not required.

670 does not seem to open the door to require testinglive animal manure to verify the necessity for emergency

1 parasiticide use.

2 670(c) allows for periodic residue testing of organic
3 products and samples, can include waste. But animal manure
4 isn't our first thought of an example for this reference of
5 waste, nor is manure our first thought of organic products that
6 should be tested, either. No part of the standards seem to
7 require testing of manure for parasite load to determine
8 compliance with 238.

9 This also ties into the compost discussion. 670(b) 10 covers the testing of agricultural inputs when there is 11 suspicion of prohibited contact or methods, and does not seem 12 to include compost while the compost is being produced to 13 ensure compliance with production standards.

14 NOP Guidance 5021 introduces testing as a way for 15 certified operations to show compliance with compost production 16 requirements, but again testing is not mandated.

We do not support the introduction of a di minimis concept in the compost evaluation, either. Synthetic compost feed stock should be listed. As for compost production, it's noteworthy that the majority of compost MOSA deems unrestricted is based on NOP 5006 or 5021. We rarely rely on 203(c)(2).

The proposed mushroom standards introduce simple compost production regulations. And the same simple approach could be used for all compost. We encourage the compost discussion to be careful not to over-regulate the farmer just

trying to make their own fertility inputs. Compost is second
 only to manure as a primary input on organic operations. Most
 policy aligns with ACA best practices for compost review.

Thank you NOSB for all of the work you do.

5 CHAIR SMITH: Thanks, Jackie. A couple of questions6 here for you. Nate, please, go ahead.

4

BOARD MEMBER POWELL-PALM: Hey, Jackie. Thank you
for your comments. Could you sort of give us kind of a gut
feeling on when MOSA does their five percent operations residue
testing, do you feel like your testing operations that are most
a risk to the supply chain or do you feel like they are done
sort of routinely without risk being taken into much of a
consideration?

14 MS. DeMINTER: I think risk is very much taken into our practices and procedures at MOSA. In fact, all of our 15 reviewers go through a complete risk analysis on an annual 16 17 basis now for all of our clients and implement -- do some checkboxes in an event in our database that indicate what, what 18 a risk on operations would be and give guidance to the next 19 step in line for where that should land. And if residue 20 21 testing is part of that, those are very specifically flagged in 22 our database and we have reports that are ran so that our 23 inspection department can assign those out.

And so short answer, yes, they are based on risk largely. I don't think we just randomly pick two terribly 1 operations for residue testing.

BOARD MEMBER POWELL-PALM: And if I might follow-up, what, what is the source of the information to establish that Like how do you decide what, what is risky?

5 MS. DeMINTER: I think that largely depends on the 6 operation. And I would point to a public reference is the ACA 7 risk best practices, risk management -- I can't remember the 8 exact name of it, document that guides certifiers through 9 determining what risks are and on what types of operations.

And our system of checkboxes goes through, you know, a variety of different types of risks, not only related to pesticides or residue sampling, but also for other supply chain factors. And now, of course, we're introducing supply chain traceability audits into that for risk factoring in as well.

BOARD MEMBER POWELL-PALM: Would that risk matrix bychance be something you could send to Michelle?

MS. DeMINTER: I think that it's right on the ACA website available now to ACA members. And I'm not sure if -- though I think Gail actually said just recently that anybody could request a copy of anything and she would be happy to send it to them. So -- Kyla, go ahead?

CHAIR SMITH: I'm happy to share it. I can get it tothe Board. Thanks, Jackie.

24BOARD MEMBER POWELL-PALM: Thank you, Jackie.25CHAIR SMITH: Very helpful.

MS. DeMINTER: Instrumental and designing our overall
 risk factoring for risk assessment on our operations. I think
 most certifiers probably use it as a guidance.

4 CHAIR SMITH: Iteration of it for sure, yeah.5 Mindee, please, go ahead.

б BOARD MEMBER JEFFREY: Thank you so much. Always 7 really appreciate your comments, MOSA's comments, and the work 8 that you're doing out there. So thank you. And looking at the compost question and reading your comment, I think I noted that 9 you said something along the lines of we don't want to see 10 11 compost become a similar circumstance as regards to ASTM 12 standards. And I was wondering if you could unpack that for me a little bit. Are you saying that the ASTM standards that 13 we're already referencing are more of a composition standard 14 and the potential for using one in compost is more of a 15 16 breakdown standard? Or can you help me just unpack that a 17 little bit.

MS. DeMINTER: I'm actually just reviewing that
paragraph of our standards so --

BOARD MEMBER JEFFREY: That's fair, totally fair. MS. DeMINTER: -- of our comments. I think that the -- I think that what we're saying is we don't want to see compost be over-regulated such that we aren't going to be able to allow it. Where we ended up with the bio -- degradable biowaste mulch film is a like standstill and nothing is out

there that's allowed to be used. And the paper pots, I think just throwing that in there, that was a very long, extended process to get to an agreeable position without enough information at the onset of developing that. So making sure that we have complete information before we start diving into regulatory writing or revision.

CHAIR SMITH: Thanks, Jackie. Are you all set,
Mindee? Good, okay. Amy, please, go ahead. And then I have a
question.

VICE CHAIR BRUCH: Yeah, Jackie, thanks for your time 10 11 today representing MOSA's comments. As you were talking, I 12 think, answering Nate's question, I just had a question kind of pop into my mind about the five percent. Right now the 13 guidance is that certified -- that we're testing five percent 14 of certified operations. When you're looking at that ACA 15 16 matrix and applying that to the operations that you certify, 17 are we -- is five percent kind of a low bar for testing? Do 18 like when you look at your current operations, I'm not sure how many there are, but if you're backing into that ACA risk 19 assessment would it be of interest to potentially test more 20 21 than five percent based on the risk factors? And I'm kind of 22 coupling that with what we're hearing today from farmer 23 observations, you know, a lot more imports are coming in. Yeah, I didn't know if five percent sounded like a low bar 24 25 based on the risk that the community feels, at this moment.

MS. DeMINTER: I think you're dipping into two, two
 different subjects.

3

VICE CHAIR BRUCH: Okay.

MS. DeMINTER: One is the five percent standard that 4 5 we have to comply with to do five percent of our operations with residue testing particularly. But the risk assessment б 7 template, if you will, that I'm referencing from ACA is --8 engages a whole lot of other risks on whether or not we should do unannounced inspections on those operations, which of course 9 pesticide residue and sampling can come into, you know, 10 11 unannounced inspection protocol.

12 But we're looking at the risk assessment as a 13 guidance for determining who we go and do unannounced 14 inspections on, which there again is a five percent 15 requirement. So we have that five percent requirement and then 16 also the five percent requirement to do residue testing on five 17 percent of our operations. And for MOSA, you know, that lands 18 us a -- didn't do the math with exactly where we're at, but you know 100 and some operations. And we, as a certifier, high, 19 high -- estimate high for how many we need, because there is 20 21 always the circumstance where you can't collect it, the 22 inspector forgot to collect it. There are things that we bump 23 up against.

24 But if it's a residue test that we're doing for 25 measuring, or for, for a complaint, or a surveillance investigation of some sort, we're always, you know, collecting that. And it's counting toward our five percent overall, but we're still going out and collecting that, even if we have already met our five percent and we need to do more, go above the five percent in order to do the evaluation or the investigation. Does that answer your question?

7 VICE CHAIR BRUCH: Yeah, that's helpful. Thank you.8 Appreciate that.

9 CHAIR SMITH: Okay. Jackie, my question, I don't 10 think MOSA commented on the TR template, if I'm remembering 11 correctly, but I'm going to ask you anyway. So any thoughts on 12 any of the additional questions on the TR template? Would they 13 be helpful in material review? Just what's your hot take?

14 MS. DeMINTER: How about I give that some, some thought after this meeting. And I would be happy to send you 15 more comments on that. It wasn't a document that we dove into 16 17 and prepared comments on. And I want to think like improving 18 the template for gathering, you know, and reporting appropriate information, we use those TR template, you know, the TRs as a 19 resource for gathering material, you know. So we're often 20 21 referencing those.

And one of the things that I personally like that came into it recently is ancillaries and other ingredients, and including anything of concern there. But I would be happy to look at that specifically to other questions, Kyla, and offer

214

1 more detailed feedback.

2 CHAIR SMITH: So thanks so much. If you have more, 3 anything, any other thoughts, yeah, please feel free to pass 4 that along to Michelle and she can get it to the Board. 5 Appreciate it. Thanks so much for your comments, today. Okay, next up we have Mark Way, then Richard Tetherow, and then Emily 6 7 Musgrave. Mark, if you could just state your name and 8 affiliation, and then you could get started.

9 MR. WAY: You bet. Hi, good afternoon. My name is 10 Mark Way. I'm the president and CEO of York State Bank. We 11 are a community bank located in Nebraska, and part of a group 12 of nine banks. If all of our group was rolled into one bank, 13 we'd be the number three ag lending bank in America by volume.

14 Today, I'd like to give you a banker's perspective on financing organic farming operations and the critical nature of 15 16 commodity pricing. As with any lending, cash flow is critical. 17 As bankers, we spend time analyzing both the current production 18 cycle, as well as future cycles to ensure that short and long-term debt obligations can be serviced. We have found 19 organic prices and practices lead to higher breakeven points 20 21 than what we see in conventional farming. Thus, there's a 22 necessity for the presence of premium pricing in the 23 marketplace.

24These higher break evens are a result of a25cost -- higher, larger cost structure. I'll highlight just a

few of those. One primary example is weed management. 1 2 Adequate weed control measures dictate more intensive efforts 3 equating to more passes through each field. Consequently, this increase is time allocation for field management and labor, as 4 5 well as greater fuel cost. This also leads to an increase in wear and tear on equipment, in turn representing higher б 7 expenses from frequent repairs and replacement. In addition, 8 investment in extra equipment is often necessary in an operation to meet the narrow windows of time available for 9 adequate weed control. 10

11 Some other key cost differences from conventional 12 agriculture show up in fertility sourcing and crop inventory 13 delivery. Input and delivery channels create added transportation expense due to the lack of local access points. 14 15 But more significant than that, facilities cost for storage can be much greater. We see fertilizer being sourced earlier and 16 17 the need for crop inventory to be held longer. In fact, as 18 lenders we often finance three separate production cycles within the same calendar year as we finance the crop growing in 19 20 the field, last year's crop in storage, and next year's inputs.

Given the cost structural differences, our concern looking forward is primarily in market prices. In general, organic producers face greater uncertainty in pricing. There's no track or board of trade. This means less market efficiency and fewer hedging tools available. Therefore, it is imperative

that adequate price premiums for organic products are present. 1 2 Whether your point of view is macro or in my case 3 it's more micro, as we work directly with local producers, a serious threat to the sustainability of American organic 4 5 farming is inequitable market place. It is imperative that we ensure the integrity of organic imports. We must have б 7 standards that preserve a level playing field for domestic and 8 foreign products. 9

9 Foreign producers are facing similar high cost 10 constraints, as outlined earlier. And as a result, it's not 11 practical for other nations to profitably deliver imports at a 12 lower price point than our U.S. producers. If they can, 13 something is amiss.

14 CHAIR SMITH: Thank you, Mark, for your comments.15 Any questions for Mark? Nate, please, go ahead.

16 BOARD MEMBER POWELL-PALM: Mark, I just want to say 17 thank you so much for joining us today. It really calls to see 18 someone in your position paying attention to our community. If I hear you right, your concerns echo the concerns of many of 19 the farmers that we heard from today, that we need to get --20 21 MR. WAY: Certainly. BOARD MEMBER POWELL-PALM: -- to get price 22 23 stabilization if we're going to see capitals stay and helping Is that right? 24 organic grow. 25 MR. WAY: Absolutely, absolutely. We see a lot of

producers. They -- it requires a little bit more leverage, as I outlined with the need for multiple operating lines and so forth like that. There's the financing needs can be greater, especially bridging the gap over the through the transition years and so forth like that, that having a stable price environment is going to be critical, you know, for the long run.

8 BOARD MEMBER POWELL-PALM: Absolutely. Really
9 appreciate you being here with us, today. I'll hand it off to
10 Franklin. Thank you.

11

MR. WAY: You're welcome.

BOARD MEMBER QUARCOO: Yes. Mark, very interesting presentation. Now how labor cost factor into some of this input, imports that come into the country like labor costs?

15 Well, I guess I can't speak to the, the MR. WAY: 16 import. But on, you know, at the local level, what we see from 17 the labor standpoint is, as I mentioned, the, the need to be in 18 the field more frequently elicits more, more labor cost. The surveying of the fields, being out there, making sure that all 19 of the, the practices are being conducted on a timely basis 20 21 elicits more labor.

And then to the point of weed control, at times weeds will sometimes get outside of the parameters that we like to see on the production side, in which case then we kind of go back to the old school manual labor, people walking through the

1 fields and physically removing the -- removing the weeds so 2 that the -- they're not competing with the crop that's trying 3 to be raised. BOARD MEMBER QUARCOO: Okay. So you are not trying 4 5 to look at the cost of production domestically compared to б international, because I thought --MR. WAY: No, no. 7 8 BOARD MEMBER QUARCOO: -- that's something about 9 price point and I don't know whether you saw that in labor cost outside the United States versus here. 10 11 MR. WAY: No. I can't -- no, not in regard to that. But as, as you -- as we compare our local producers that are in 12 the, the conventional farming practices versus organic, we see 13 a much larger labor cost for the organic production locally. 14 15 BOARD MEMBER QUARCOO: Thank you. MR. WAY: You're welcome. 16 17 CHAIR SMITH: You've got a couple more questions 18 coming your way, Mark. Kim, please, go ahead. 19 MR. WAY: Okay. 20 BOARD MEMBER HUSEMAN: There I go. Thank you, Mark, 21 for your comments to day. I really appreciate --22 MR. WAY: You're welcome. 23 BOARD MEMBER HUSEMAN: -- your lens in the space. As we talk about some of the risk management tools that organic 24 farmers have or the lack thereof, what are your thoughts on 25

other hedging mechanisms that could be employed to help farmers other than a back-to-back sale. I know we talked about Chicago Board of Trade not being an effective tool today. But if there were some kind of a mechanism from that pricing structure to hedge risk, do you think that that could be beneficial to this community?

7 MR. WAY: Absolutely. One of the things that, that 8 we see and I, I touched on briefly was the fact that the storage of the inventory sometimes can be a little bit longer 9 than we see on the conventional side. And part of that has to 10 11 do with the premium that can be obtained by giving up 12 optionality and the marketing of the product. It can -- that can present itself in buyer calls and that type of thing. And 13 so it puts, puts the producer in a position where they don't 14 necessarily know what their cash flow is going to look like as 15 16 they go through the year. And if those deliveries get pushed 17 further and further into the year, there's carrying costs with 18 that. There is also potential loss in the quality of, of the product that's been stored. 19

And so there, there is added risk in there that a lot of times you don't see again on the -- on the conventional side. And any, any ways to mitigate risk is going to be -- is going to have value to the end producer.

24 BOARD MEMBER HUSEMAN: Thank you. And I hear that 25 loud and clear. We're talking about price volatility and 220

trying to find mechanisms to, you know, minimize the swing in that pendulum to create an environment. And I think there's multiple facets to it. And that's why I think having the, the lens from your perspectives on this side of it's so important. So thanks, again.

6

7

MR. WAY: Thank you.

CHAIR SMITH: Jerry, please, go ahead.

8 BOARD MEMBER D'AMORE: Yeah, I actually took my hand 9 down because I, I was going down the same path that Franklin was going to go down. I, too, thought I heard that the -- that 10 11 the overseas was saddled with the same kind of issues that we 12 And while that may be true, they're, they're vastly are. different. And Franklin, I think, hit the biggest one which 13 is -- which is labor. There's also inputs. There's also 14 in-country regulations. At the end of the day, cheating is 15 16 highly worthwhile for these people.

17 MR. WAY: Unfortunately, yes.

18 BOARD MEMBER D'AMORE: Yeah.

19 CHAIR SMITH: Thanks, Jerry. Logan, please, go20 ahead.

BOARD MEMBER PETREY: Thanks, Jerry. I'm glad you asked that question, because I was just going to hit on part of Franklin's and the labor would be a big thing. And then just kind of give perspective on a corn crop here, this is without hand weeding, but it's looking like it's only maybe 10 percent

or less of the total cost of production. And so even though the biggest thing, variance between countries, third world country or here where the labor would be huge on that variance, it shouldn't affect the total input cost, that line item at least. Now if you're hand-weeding, you're going to bump up to 25, 30 percent more. But that's just to give an idea.

7 CHAIR SMITH: Thanks so much. Thanks for your
8 comments, Mark, and for spending some time with us, today.
9 Okay. Up next we have Richard Tetherow, which, Richard, are
10 you on the line? I think we're not finding you.

11 MS. ARSENAULT: I don't see Richard in line with us. 12 CHAIR SMITH: Okay. I'm going to do a circle back round at the end of the -- of the list here, which is a couple 13 of people to get -- just do one last sweep for anybody who we 14 might have missed today. So if no Richard, then Emily Musgrave 15 16 is next, then we have Walter Goldstein, and Robin Olson. 17 Emily, you can state your name and affiliation, and then get 18 started.

MS. MUSGRAVE: Can you hear me, okay? Great. Good afternoon. My name is Emily Musgrave. I'm the Organic Regulatory Manager at Driscoll's. For those of you that don't know, we have independent growers who grow berries, both organic and conventional, strawberries, raspberries, blueberries, and blackberries.

25

So as always, I would like to thank the NOSB for

their tremendous commitment by serving on the Board. My comments focus on the continued allowance of the following materials: hydrogen peroxide, horticultural oils, pheromones, ferric phosphate, potassium bicarbonate, and magnesium sulfate.

5 Additionally, I am a voluntary member of the 6 International Fresh Produce Association, IFPA's organics 7 committee. And Driscoll supports the comments made by IFPA.

8 Driscoll supports the continued listing of hydrogen peroxide for use in organic production as both an algicide, 9 disinfectant, and sanitizer, as well as plant disease control. 10 11 Hydrogen peroxide is widely used by Driscoll's growers for 12 cleaning irrigation lands. It is an essential tool for dripline maintenance for organic growers. It is widely used by 13 growers as an IPM practice for plant disease control, as it 14 kills spores in fungal colonies. 15

Driscoll supports the continue listing of horticultural oils for use in organic production as they are a critical tool for the organic industry as a whole. The entire organic industry is dependent on horticultural oils. These oils are an integral part of the IPM strategy as they kill fundal pathogens and insects.

Driscoll supports the continued listing of pheromones as an approved material on the National List as a tool for insect management. Pheromones are the primary way organic growers control many different species of moths. The use of

1 pheromones as a mating disrupter is a principal way organic 2 growers combat the light brown apple moth and many other 3 invasive pests.

Driscoll supports the continued listing of ferric phosphate in organic production. Many growers use ferric phosphate as slug and snail damage is prevalent across all four berry types. Ferric phosphate is an integral component of growers' IPM strategies.

9 Driscoll supports the continued listing of potassium bicarbonate in organic production. Potassium bicarbonate is 10 11 used as a fungicide to control powdery mildew across all four 12 berry types, but it's extremely important in strawberries. 13 Potassium bicarbonate is a key rotational product with sulfur and oils particular to decrease plant stress. Potassium 14 15 bicarbonate is also an essential component to organic growers' 16 IPM strategies.

Driscoll supports the continued listing of magnesium sulfate as an approved material on the National Organic List. Magnesium fertilization is critical to plant health across all berry types. The plants will suffer without the proper levels of magnesium.

And I also just wanted to say thanks for hanging in, everybody. I know this is late in the day. So thanks to the Board and just thanks to the National Organic Standards Board for the opportunity to comment and their commitment to

1 protecting the integrity of the program.

2 CHAIR SMITH: Thanks so much, Emily. Any comments or 3 questions for -- not comments, questions, questions I need for 4 Emily? I don't see any. So thank you, Emily, for your 5 comments today and have a good rest of your day. Thanks for 6 being with us.

It looks like we have a handful of speakers 7 Okav. 8 that are signed up. I don't think that several of them are So I think Brian Baker maybe is next on deck, because I 9 here. think -- I'm just going to read who is on my list, but I think 10 11 we couldn't find them. Walter Goldstein, Robin Olson, and Ron 12 DeBoer, I think are all not here. I'm going to do one final 13 sweep.

Okay, great. So Brian Baker is up next. And then Ron DeBoer will be after Brian. And then I'll sweep one final time for anybody we might have missed. And then that will get us through the end of the day. So, Brian, please state your name and affiliation, and you can go.

MR. BAKER: Well, I didn't expect to be up so soon. 19 Thanks for the opportunity to address you. 20 Thanks. Brian 21 Baker, Bellcare & Concerns (phonetic), Eugene, Oregan. Please 22 consider my written comments submitted with Chuck Benbrooks. 23 Today, today's comments are around the discussion papers residue testing for the global supply chain and inert 24 ingredients in organic pesticide products. 25

Key points. A growing body of scientific evidence 1 2 supports the health claim that organic foods significantly 3 reduces dietary risk from exposure to pesticides relative to 4 conventional food. However, fraud, negligence, and unavoidable 5 circumstances all mean that organic food is not pesticide residue free. Organic certifiers have a growing database of б 7 pesticide residues found in organic food. Analysis of that 8 data can target sampling of crops and pesticides that pose the greatest risk to the eaters of organic food. 9

Many positive samples of organic food are for postharvest chemicals that are evidence of either co-mingling or improper handling. It is easier to buy conventional food and sell it as organic than it is to grow conventional food and sell it as organic. Glycosylates, metabolites and EPA registered plant pesticides that are transgenic crops are missing in the current guidelines and discussion documents.

Unavoidable residual environment contamination needs 17 18 to be addressed. The FDA does not handle samples labeled as organic any differently from any other samples. The FDA does 19 not inform the NOP and responsible certifiers when the FDA 20 21 finds a sample labeled as organic that tests positive. The FDA 22 does not enforce the NOP threshold of five percent EPA 23 contamination for products labeled as organic and regards that as USDA's responsibility. 24

25

The FDA should report to the USDA and to the

respective certifiers when they discover pesticides in organic 1 2 food. The USDA and its accredited certifiers should 3 investigate FDA's reported findings. The USDA should 4 acknowledge the growing body of scientific evidence that 5 supports the claim that organic food is safer than conventional food. Organic food must meet all safety requirements for all б food, and on top of that is required by law to provide greater 7 8 protections to human health from pesticides and other human 9 health risks.

Regarding inert ingredients or as I prefer to call 10 11 them co-formulants, my key points are registrants and the EPA 12 need to cooperate with the NOSB so it can make informed 13 decisions about what ingredients are being asked to be added to the National List. The process requires full transparency and 14 15 public access to information regarding the ingredients in 16 question. Once the EPA and registrants agree to cooperate with 17 the NOSB, it will then be possible for the public to engage in 18 the long overdue task of identifying what co-formulants meet organic standards. 19

20 Thank you for your service. I welcome your 21 questions.

22 CHAIR SMITH: Thanks so much, Brian. I see a23 question from Dilip. Dilip, please, go ahead.

24BOARD MEMBER NANDWANI: Thanks, Brian. I really25appreciate your portion. You talked some time on some of the

topics in the past. But this topic, organic pesticides in organic food is very interesting and also important, because any common consumer of organic food, he or she, they have the understanding that it's pesticide-free. So this is, to me, is an important area.

You mentioned I believe some of the reasons why we б 7 have this pesticide residue in organic food. But can you a 8 little bit provide more for your insights, top two or three reasons pesticides coming into organic food? Is it because of 9 use or organic pesticides by farmers in the community or is it 10 11 from the dirt from the sort of duster plane, or the 12 neighboring, you know, farmers? Or what could be the possible 13 top two or three reasons. Thank you.

MR. BAKER: Okay. Thank you, Dilip. Yes, with my experience as, as working in certification, as well as doing research, the three main reasons, the first would be drift or, you know, what, what the neighbors are doing.

18 The second, which I mentioned, is post-harvest handling where, for example, diphenylamine is a post-harvest 19 treatment for apples. And we've known for over 20 years that 20 21 DPA volatilizes at low temperatures and controlled atmosphere 22 storage. If you have organic and conventional apples that have 23 -- that have been treated with DPA, the organic apples are going to test positive if they're in the same chamber. 24 We know It's avoidable. 25 that.

Another reason, you know, is legacy pesticides such 1 2 as DDT, cording, you know, these persistent, some call the 3 forever chemicals, that translocate from the soil into certain We've known for 40 years that if you have DDT in the 4 crops. 5 soil, you're going to -- potatoes and carrots are going to accumulate those pesticides. We can test the soil for the б 7 presence and avoid planting organic crops in that soil. It's 8 avoidable.

9 Finally, you know, it's fraud. And some of these samples are very hot. Any, any time you see more than one 10 11 pesticide residue in a crop, that should be a red flag. That 12 should be evidence that deliberate -- these pesticides are 13 being applied deliberately. And, you know, I haven't done a thorough analysis of the FDA data, but, you know, there's some, 14 15 you know, there are some samples that have come in to FDA that 16 are, are labeled organic.

FDA doesn't report those results for a good two years, doesn't make the data available on their website for a good two years after the samples have been run and the results are back. So we're missing out on a big chunk of evidence that fraud is being committed by not working with the FDA and getting, getting their data.

BOARD MEMBER NANDWANI: You mentioned DDT. It is banned. But do you think that still it is coming for one or other sources and it is data or information service there?

MR. BAKER: There is DDT being used in, in other part
 of the world.

BOARD MEMBER NANDWANI: Okay.

3

How much and in what specific countries, 4 MR. BAKER: 5 you know, there are other organochlorines where, you know, DDT may have been banned in those countries, but they're still б 7 using BHC or toxaphene, other, other organic chlorines that are 8 going to come into certain crops. And, you know, that, that can be a problem with something like ginger, for example. 9 You know, you're growing root crops in tropical conditions. 10

11 Yeah, so, you know -- but, yeah, I mean DDT that was 12 applied in the -- in the 1960's is still turning up in organic 13 crops.

14 BOARD MEMBER NANDWANI: Yeah. That was the cause of this, you know, in the bald eagle, we all know that. 15 Some of 16 the vegetables and fruits, they have high organic fruits and 17 vegetables, they have a high pesticide residue. And a lot of 18 consumers, they told me that they don't want to buy because then they learn. And you mentioned organic apple. And I think 19 a couple of other vegetables I would say is the sweet pepper, 20 21 also. Do you know about --

MR. BAKER: Yeah, sweet -- yeah, you know, we -- there was one sweet pepper sample, it was actually frozen sweet peppers that came up from Mexico. And there were like 17 different residues on, on that sample. It was labeled organic.

Why? And again that was, you know, that was in 2022. 1 It 2 wasn't until 2024 when those results were reported. So those -- that food was long gone. 3 4 BOARD MEMBER NANDWANI: Thank you for coming. Ι 5 appreciate it. MR. BAKER: б Thank you. 7 CHAIR SMITH: Thanks, Brian. Yeah, appreciate your 8 comments today. Thanks for joining us. Okay. Up next I think we have Ron DeBoer. Ron, are you there? I heard you're here. 9 MS. ARSENAULT: Yeah, Ron is on the phone. Ron, you 10 11 might have to hit star-6 to unmute yourself. 12 (Pause.) Okay. Can you hear me? 13 MR. DeBOER: CHAIR SMITH: 14 Yes. MR. DeBOER: Am I on? 15 16 CHAIR SMITH: Yes, you are here. Yes, so please 17 state your name and affiliation, and then you can get started. 18 MR. DeBOER: Yes. My name is Ron DeBoer and I am an organic farmer in Nebraska. I am, you know, Justin talked 19 20 earlier, I have been organic farming corn and beans for 21 probably the last five or six years. And within them five or 22 six years, the price was really good. I was able to keep going 23 and keep my farm operating, because I was able to rely on the organic stuff that I sold. 24 I'm at the point now where organic is down and the 25

price of soybeans and corn is down in organic. And I'm trying to bring attention to the price of organic in soybeans due to I think we have too much imports. And I think we need to make stricter regulations on imports, because it's an unfair market. Some of the imports are coming in less than cost of production.

6 There does not seem to be a good handle on preventing 7 fraudulent imports in the discussion documents being presented 8 by the CACS. Committee is a great start. Crop insurance has 9 gotten better in organics and we're grateful that you all have 10 a healthy highlight of that in the areas where farmers would be 11 able to improve.

But we need to grow organic markets. And I think the best way probably to do that is not to bring in so much imports and to rely on the farmers in the United States to take care of everybody, because I think if more people see what the price is and see that we're supporting our farmers around here, I think it would improve on a lot of other farmers wanting to get into it. Thank you.

Thanks, Ron, for your comments. 19 CHAIR SMITH: Any 20 questions for Ron? I just have one comment that I was going to 21 make and I appreciate all the farmers that are coming to speak 22 -- to speak about struggles with imports. And I can -- I've 23 heard that the time is -- like there is a real urgency. And I know that there are some things that happened within the 24 strengthening organic enforcement rulemaking that will take 25

1 some time to roll out and to, to see the impact of.

And so, but I did just want to highlight that every, every import that is coming into the country is now going to be required to have an NOP import certificate. And certifiers are going to need to have processes in place for issuing those with accurate information. And NOP is going to be focusing on that in our accreditation audits. It's a major focus.

8 So I know that it's like not going to happen fast 9 enough, I think, you know, for a lot of folks. And I just 10 wanted to, to highlight that is coming and it is -- anyway, 11 hopefully it will be impactful for fraudulent imports and 12 cheaters that are out there, that there's going to be some 13 operations and perhaps certifiers existing the market.

So, anyway, Jerry, please, go ahead.

BOARD MEMBER D'AMORE: Yeah. 15 Thank you for that 16 comment, too. I guess what also has to be said particularly as 17 we're talking about limited time and, and getting something 18 done is that this is not the right forum for anything other than the -- than the SOE and, quote, leveling the playing 19 If we want to start talking about limiting what comes 20 field. 21 into this country, this is not the body to talk to. Thanks. 22 CHAIR SMITH: Thanks, Jerry. Okay. Any other 23 comments or questions for Ron? Thanks, Ron, for sticking with

24 us and for your comments today.

25

14

MR. DeBOER: I do have a question.

1 CHAIR SMITH: Okay. I don't know if we're 2 entertaining questions. This is a -- this is a speak and then 3 we ask the speaker questions. But --MR. DeBOER: Who would I -- he said you're not 4 5 the -- who, who should I go to, senators and that kind of stuff? б 7 CHAIR SMITH: Yeah, I think that's a bigger issue 8 beyond our authority to have any impact on trade relations. 9 So, yeah, I'm not sure the best person to reach out to. Α congress person might be a good start. 10 11 MR. DeBOER: Okay. Thank you. 12 CHAIR SMITH: Yep, you bet. Okay. Our last speaker may be Tony Michaels. I'm aware that Tony is on the line. 13 And I'm going to then do one final sweep to see if we -- if anybody 14 15 else has joined us. But, Tony, are you there? 16 MR. MICHAELS: Yes, I am. 17 CHAIR SMITH: I believe Tony -- okay, perfect. 18 MR. MICHAELS: Yep, yep. Awesome, great. Okay, Tony, state your 19 CHAIR SMITH: 20 name and affiliation, and then you can get started. 21 Tony Michaels. I'm with EVEA Farm MR. MICHAELS: 22 Management. We farm in, in Western Nebraska. I don't know 23 what it is about Nebraska people, but we talk about the same So I'm not on the trade limitation side few topics, it seems. 24 25 of things, but I do think we can continue to speed up and do a

better job on measuring the, the crops, the organic certified,
 or apparently organic crops that are coming in from overseas.
 We should be making a lot of direct measurements at the port of
 entry.

We should -- I think there's a lot of things we can continue to do to cut down on the likelihood that there is fraud coming from overseas. The fluctuations in that source just seem too, too nonlinear compared to the farming practices to be, be completely just due to agricultural supply and demand kind of things. So I think if we can -- if we can do that, that would be great.

And then I'd like to reiterate and I forget what the 12 13 person's name was from the insurance company earlier on in the day that, that we -- there is no -- if you're farming 14 transition, you're going through the same practices as your 15 going to use for organic, you should be able to count that 16 improvement towards your, your yield when you're calculating 17 18 your APH for, for organic. And it seems like that's a pretty logical thing to, to do, and just sort of help us get to good 19 20 yield goals for the, the insurance products when, when we're 21 organic.

And so I'd just like to support both of those things and thank you very much for doing such a great job. And sorry for keeping you here longer than the end of the program. So thank you. 1 CHAIR SMITH: Oh, you did nothing of the sort, sir. 2 It's all these fellow board members who just have so much to 3 say and ask people about. But we really appreciate you 4 sticking with us. Kim, please, go ahead.

5 BOARD MEMBER HUSEMAN: All right. Unapologetically, 6 we're going to spend more time. And thank you, Tony, for being 7 here today and giving your comments. As a fellow border state 8 farmer, I grew up in Southeast Wyoming, farming in the sand 9 hills.

10

MR. MICHAELS: Mm-hmm.

BOARD MEMBER HUSEMAN: Tell me a little bit about as an organic farmer in Western Nebraska, how do you transport your products to market? And any kind of bottlenecks or fragmented infrastructure to the logistics component to moving organic products?

MR. MICHAELS: Yeah, so when we set -- because we 16 took over these acres only a few years ago and we're in the 17 18 latter stages of transition for it, though our team has farmed in other parts of Nebraska for years. We thought that through 19 by design. And so we -- a good chunk of our crops are going 20 21 into feeding cattle and organic grass-finished cattle to be 22 processed at that Gordon slaughterhouse facility. So that was 23 part of getting a plan that matches the, the geography. 24

24Otherwise, yeah, the logistics of moving the stuff25around are, are a royal pain. And that's one of the limits to

1 making these choices. It's a great place actually to do 2 organic grow crops. But it is challenging from the cost and 3 infrastructure standpoint.

And the other things we're doing is for ingredients that we're looking at creating out of some of our crops where we would do some of the secondary processing onsite. The nice thing, this area is challenging because of the ability to get fertility is limited, and so being able to do beef and actually walk those animals onto the pivots at various parts in the rotation allows us to get some of that fertility back.

11 But, but we do want to create some very specific sort 12 of plant protein ingredient thing where we can get a value-add 13 on the farm and then it's a smaller volume of higher, higher value corp. But it's something you've got to think about ahead 14 of time. Because if you just randomly go into a spot and start 15 16 growing, and hope that there is some way you can get it to 17 market, you know, you're setting yourself up for some 18 challenges.

BOARD MEMBER HUSEMAN: That's right. And having a complimentary rotation program that can feed into those livestock diets as well, I understand the challenges and with you luck in your -- in your planting this spring. And thank you again for your comments, today.

24 MR. MICHAELS: Thank you, guys.

25

CHAIR SMITH: Thanks, Tony, for, yeah, circling back

1 around here. I'm glad we were able to catch you. Okay. I'm 2 going to do one final call for everybody that we missed today. 3 So if you're on the phone, star-6 to unmute. This is your 4 Michael -- I'm sorry, Matthew Fitzgerald? change. 5 (No response.) CHAIR SMITH: Grant Marcuccio? 6 7 (No response.) 8 CHAIR SMITH: Klein Njoume? 9 (No response.) CHAIR SMITH: Courtney Lorenz? 10 11 (No response.) 12 CHAIR SMITH: Derrick Nyirenda? 13 (No response.) CHAIR SMITH: Zach Porter? 14 15 (No response.) CHAIR SMITH: Richard Tetherow? 16 17 (No response.) CHAIR SMITH: Walter Goldstein? 18 19 (No response.) CHAIR SMITH: Rob -- Robin Olson? 20 21 (No response.) 22 CHAIR SMITH: Okay. I think this concludes our 23 public comment webinar for today. Thank you all who provided comments to the Board today and for sticking with us. 24 We didn't do too bad, only 22 minutes over. We will reconvene on 25

1	Thursday, April 25th, at 11:00 Eastern. And thanks Board
2	members for all of your questions and for your attention. We
3	did it.
4	(Whereupon, at 5:22 p.m., the Webinar was adjourned,
5	to reconvene on Thursday, April 25, 2024 at 11:00 a.m. EST.)
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16 17	
18	
19	
20	
21	
22	
23	
24	
25	

Г

CERTIFICATION

This is to certify that the attached proceeding before the:

NATIONAL ORGANIC STANDARDS BOARD

IN THE MATTER OF: SPRING 2024 PUBLIC COMMENT WEBINAR

PLACE: ZOOM

DATE: April 23, 2024

was held according to the record, and that this is the original, complete, true and accurate transcript which has been compared to the recording accomplicated at the bearing.

Edine Molekope

Elaine M. LaRosee, CDLR Official Reporter

	- Vol. 1	
April	23, 2024	

Spring 2024 Meeting				April 23, 2024
	34:16	acetone (1)	44:23	39:1;110:24;206:2;
\$	absent (1)	110:1	active (5)	226:18
Φ	11:20	achieving (1)	39:7,10;44:4;45:5;	addressing (6)
\$1,500 (2)	Absolutely (16)	147:21	85:10	59:20;66:6;161:15;
169:20,21	49:13;83:12;90:24;	acid (31)	actively (2)	188:21;192:3;205:22
\$100 (1)	145:25;177:23;	42:25;51:7;86:15;	46:15;188:13	adequate (8)
169:19	185:19;186:15,25;	88:10;89:6;92:19,20,	actual (2)	120:14;126:14;
\$11.50 (1)	198:8;200:12;203:7;	22,23,25;93:1,2,4,5;	24:14,16	127:21;184:14;189:9;
27:13	205:1;217:25,25;	96:24;97:6,8,16,18,	Actually (44)	216:2,10;217:1
\$12 (1)	218:8;220:7	19;119:5,11,12,14,16,	25:12,17;28:18;	adequately (1)
27:13	absorbed (1)	18,20;122:1,6;	29:13,18;41:24;	168:14
\$120 (1)	34:6	142:22;143:16	51:17;55:21;56:23;	adhere (1)
166:12	ACA (26)	acidifying (1)	58:6;74:15;75:14,17;	21:20
\$17 (1)	14:16;15:6,13,19,	144:18	76:23;77:16,18;	adjourned (1)
198:14	22;16:4,9,11,15,23;	acids (6)	78:12,16,22;101:9;	239:4
\$200,000 (1)	17:12;18:4;22:3;49:6;	51:8,9;80:11;95:25;	106:8,10;107:23;	adjust (2)
75:20	92:21;98:1,2,11;	119:2;155:8	116:21;141:18;	168:10;189:25
\$350 (1)	191:17;209:3;210:6,	acknowledge (3)	144:12,15;147:14;	adjusted (1)
164:4	17,18;212:15,19;	9:20;188:19;227:4	150:17;163:25;	40:10
\$40 (1)	213:7	acknowledged (1)	174:25;177:19;	adjuster (1)
27:9	ACA's (3)	93:14	178:22;179:5,11,17;	184:15
\$50 (2)	14:24;17:6;18:1	acknowledgement (2)	186:12;193:12;	adjustment (1)
169:19;198:14	accept (2)	177:6;190:4	210:19;211:18;221:8;	184:13
\$7 (2)	127:21;152:15 acceptable (1)	acknowledging (2) 49:19;177:2	230:23;237:1,8 Adam (11)	administer (1) 159:23
27:15,15	156:10	49:19;177:2 acre (4)	91:16,17,18,21;	administered (1)
\$750 (1)	acceptance (2)	73:7;78:4;140:1;	94:3,7;95:4,5,10;	159:19
78:6	31:18;32:11	198:19	96:21;97:23	Administration (1)
\$8 (1)	accepting (3)	Acres (13)	add (10)	93:23
27:15	81:3;161:22;174:23	22:14,25;33:11;	20:5;21:19;51:4;	administrations (1)
٨	access (11)	73:24;100:8;135:25;	54:23;55:14;95:1;	60:6
A	28:14;68:6,10;	136:6;199:25;200:25;	97:13;120:24;142:24;	admire (1)
A D1201 (1)	82:17;130:15;147:16;	201:19,24;202:2;	172:11	148:23
AB1201 (1) 152:24	148:9;155:24;158:22;	236:17	added (6)	admit (1)
Abby (10)	216:14;227:15	across (29)	93:5;122:12;	41:7
45:19;53:8,10,13;	accessible (2)	26:19,19;53:19;	136:17;216:13;	adopt (3)
55:18,19;58:14,15,17;	165:15;168:21	64:20;83:5;89:7;	220:20;227:13	31:25;54:6;167:22
60:14	accessory (5)	107:9;108:20;109:17;	Adding (2)	adopter (1)
ability (7)	93:14,19;95:16;	110:18;111:14;	159:21;169:16	103:21
9:1;16:13;124:6;	96:1,16	117:13;124:11;	addition (10)	adopting (1)
127:6;130:13;203:8;	accommodate (1)	127:24;136:19;137:9;	15:1,21;20:10;	167:4
237:7	168:10	150:20;158:16;169:4;	80:20;90:14;96:16;	advance (3)
able (39)	accomplish (3)	174:3,17;176:5;	119:10,11,21;216:7	11:25;32:10;172:2
5:15,17;7:11;14:3;	59:12;107:15;	177:21;184:9;195:8;	additional (15)	Advancements (3)
23:6;35:11;42:4;44:9;	108:12	204:17;224:6,11,19	15:11;16:25;18:5;	124:1,5;158:10
49:1;51:16;62:4;67:1;	accomplished (1)	Act (4)	20:20;55:4;75:18;	advances (4)
70:13;75:16;118:11;	110:9	9:11;39:17;81:10;	98:4,6,8;122:12;	99:1,2,3,3
119:25;127:7;130:20;	According (1)	156:4	149:19;169:16;	advantage (2)
139:15;140:1;146:9;	80:9	Acting (3)	201:10,10;214:12	72:22;139:15
150:4;163:21;170:6;	accountability (2)	8:20,24;159:3	Additionally (5)	adverse (3)
175:23;176:1;181:2;	189:10,12	action (13)	160:7;172:15;	84:15;167:1;196:11
187:1;190:20;193:7;	accreditation (2)	9:6;58:10;78:11;	183:20;184:15;223:5	advising (1)
198:9,25;211:23;	65:17;233:7	125:3;137:8;153:15;	additive (1)	123:15
231:22,23;232:11;	Accredited (10)	157:13;166:21;	20:19	advisor (1)
235:16;237:8;238:1	14:15,19,22;16:24;	168:12;173:16;191:5;	Additives (1)	127:14 Advisory (2)
above (4)	17:3;31:2;92:14;	203:24;207:15	118:25	Advisory (2)
33:19;79:21;81:4;	109:21;169:5;227:2	actionable (1)	address (13)	5:5;9:11
214:4	accumulate (1) 229:6	176:24 action-oriented (2)	58:10;64:4;66:2; 67:1;107:5;112:7;	advocacy (3) 12:10;70:7;166:9
above-ground (1)	accurate (1)	192:11;193:3	156:10;158:5;189:21;	advocate (5)
76:21	233:6	actions (1)	190:9;191:12;193:8;	19:19;123:1,2;
abreast (1)	accurately (1)	192:19	225:20	19.19,125.1,2, 124:13;175:1
123:25	190:20	activate (1)	addressed (4)	advocates (2)
abroad (1)	170.20			

Min-U-Script®

- Vol. 1 April 23, 2024

Spring 2024 Meeting			[April 23, 2024
194:18;195:8	208:16;213:14;	65:23;66:1	190:23;191:2;192:7;	199:6
advocating (2)	220:21;221:5;231:1;	agronomic (1)	193:16;194:1,21	along (7)
164:17;174:23	237:23	31:7	align (1)	20:11;37:2;65:20;
aeroponics (1)	against (7)	ahead (85)	152:7	169:17;173:13;
34:19	37:8;105:24;	16:17;18:12;25:1;	aligning (2)	211:10;215:4
AFCO (2)	123:22;144:10;	30:6,18;35:6;36:17;	197:4,5	alter (1)
129:24;134:24	174:24;203:20;	41:18;49:16;53:5;	alignment (1)	196:10
Affairs (1)	213:23	55:18;58:16;66:10;	65:1	altered (1)
123:16	agencies (3)	67:17;69:6;70:4;	aligns (3)	54:17
affect (3)	14:20,21;17:3	75:25;77:21;83:8,17;	20:24;124:14;209:3	alternative (2)
101:12;196:1;222:4	agency (3)	86:13;87:7;89:19;	alkylphenol (4)	126:17;130:9
affected (1)	58:24;80:9,17	90:4;94:5;96:21;	42:6,12,13,14	alternatives (3)
161:1	agenda (7)	102:6;103:11;104:18,	allegedly (1)	20:21;126:19;
affecting (1)	44:24;64:2,7;66:2;	24;109:7;111:1;	167:16	176:11
196:14	103:16;189:21;	115:20;116:7;117:7;	alleviate (1)	although (2)
affidavit (2)	191:25	121:5,24;127:4;	20:2	149:17;154:11
121:12,15	agent (5)	131:12;133:12;134:8;	Alliance (1)	always (19)
affiliation (36)	47:8;143:22;	138:8;139:18;141:10;	56:12	9:5;12:13;25:24;
8:5;13:15;19:15;	178:22;180:23;181:1	144:7;148:25;151:3;	all-inclusive (1)	36:3;41:9;110:10;
22:12;32:25;38:17;	agents (6)	153:13;157:11;	82:16	124:23;126:6;131:25;
43:10;45:20;53:11;	47:1,5,7,14;84:14; 184:13	162:24;164:21;168:5; 173:19;175:3;176:25;	Allison (12)	142:6;144:4;156:17;
60:19;63:22;73:20; 79:14;81:19;87:6;	aggregation (1)	175:19;175:5;176:25; 177:11;178:19;179:7;	11:1;36:17;94:3,5; 138:7,7;153:13;	175:6;180:16;184:21; 211:6;213:21;214:1;
99:19;100:5;106:24;	68:11	180:13;181:25;	154:8,20;190:25,25;	211.0,213.21,214.1, 222:25
114:21;128:23;142:1;	aggressive (1)	180:15,181:25, 184:25;186:1;187:6,	194.8,20,190.25,25, 192:5	amazed (1)
146:24;155:4;158:1;	158:18	18;190:25;192:6;	allocate (1)	26:3
160:17;171:8;178:19;	ag-input (2)	193:24;197:1;200:6,	39:5	amazing (1)
182:22;188:6;195:1;	50:15,15	15;205:14,19;206:12;	allocation (1)	177:24
198:7;215:8;222:17;	ag-inputs (1)	209:6;210:21;211:5;	216:4	ambient (1)
225:18;231:17;	47:13	212:8;217:15;219:18;	allow (15)	143:7
234:20	agnostic (1)	221:7,20;227:23;	9:2;34:15;84:7,10,	amend (1)
affiliations (1)	134:17	233:14;236:4;237:14	20,22;94:23;96:8;	120:24
13:4	ago (10)	aids (1)	108:7,7;153:25;	amended (1)
afford (2)	23:8;24:7;27:8;	120:21	161:4;162:10;173:14;	173:17
88:3;172:14	44:10;74:3;99:21;	aim (1)	211:24	amendment (6)
affordable (3)	117:22;163:21;	147:21	allowance (4)	31:4;91:4;143:1,15;
68:11;168:22;	198:11;236:17	aisle (1)	93:15;162:10;	144:13;145:7
169:14	ag-products (1)	174:3	166:23;223:2	amendments (2)
Africa (3)	47:13	ala (1)	allowed (20)	88:3;129:25
61:1;62:1;136:11	agree (9)	169:16	13:20;23:14;24:16;	America (2)
African (1) 108:9	12:13;44:17;72:17; 73:4;160:9;161:19;	Alan (12) 60:18;63:19;67:11,	34:23;40:2;72:12;	191:17;215:13
afternoon (14)	169:23;203:12;	12,16,20;69:4,7;70:4,	84:1,8;93:20;144:24; 151:8;152:14,15,21;	American (4) 61:12,15;81:1;
43:12;81:21;91:20;	227:16	5;71:12;73:9	155:18;159:11;	217:4
123:17;135:20;142:3;	agreeable (1)	alarmed (1)	162:18;195:19;	America's (1)
166:4;171:10;182:24;	212:3	195:16	196:21;212:1	199:21
188:8;195:3;207:6;	Agreement (2)	albeit (1)	allowing (12)	amino (7)
215:9;222:20	31:17;32:2	80:2	32:12;39:13;56:8;	42:24;51:7,8,9;
afterwards (1)	agreements (2)	Albertson's (1)	71:19;85:21;148:20;	80:11;95:23,25
51:14	190:2,7	71:1	151:22;158:5;161:25;	amiss (1)
ag (4)	agrees (1)	Alexander (15)	195:15,24;196:16	217:13
129:25;167:6;	64:25	118:22;123:12;	allows (6)	ammonia (2)
204:14;215:13	agricultural (10)	128:21,24;129:3,5;	12:16;88:13;	50:19;51:5
again (33)	47:8;52:2,11,12;	131:8,17;132:15;	161:12,22;208:2;	ammonium (2)
9:4;16:16;19:12;	63:15;85:3;155:18;	133:11,22;134:15;	237:10	46:3,5
20:25;28:13;32:12;	173:7;208:10;235:9	135:6,12,16	all's (1)	among (2)
38:21;59:25;63:4;	agriculture (8)	alfalfa (3)	149:23	65:21;93:10
102:25;116:5;117:9;	31:8;44:18;71:4;	61:8;135:22;198:21	alluded (1)	amongst (3)
130:25;135:7;139:2;	82:5;87:20;143:6;	algicide (1)	148:4	12:18;112:3;176:23
142:16;144:3;148:23;	190:22;216:12	223:9	almost (4)	amount (7)
155:16;167:16,19; 174:19,21;176:19;	AgriSecure (1) 135:23	Alice (12) 57:19;178:19;	24:18;33:11;75:14; 147:10	76:18;100:10; 108:18;122:14;
177:23;182:3;205:12;	agroforestry (2)	182:21;188:4,5,9;	alone (1)	147:19;162:7;171:18
1,1,23,102,3,203,12,	"BI 0101 0501 y (4)	102.21,100. - 7, <i>J</i> , <i>J</i> ,		11/11/102.7,171.10

amounts (1) 167:11 66:1 85:11:89:12:159:21; 187:2;222:11;231:10 80:7 announcing (1) apply (3) 161:4.11.12.17: articulated (1) 138:14:164:24; ample (1) 157:21 162:15:164:15; 41:21 199:4 annual (2) 190:19 223:23;224:18 **ASCM (2)** 65:24;209:16 applying (3) 152:7,14 Amy (33) approving (2) 142:24;196:19 10:7,9;16:17;18:12; annually (1) 78:15:195:21; Asian (1) 25:1;26:13;40:16; 15:7 212:16 approximately (1) 100:8 appointed (1) 41:17;48:3,20;49:18; answered (3) 119:14 aside (2) 47:19;69:16;110:23 190:3 April (3) 74:14;103:2 55:18;56:10;62:19; 77:20,21;102:5; anti-inflammatory (3) appointment (1) 15:8:239:1.5 aspect (5) 103:11;104:1;109:6, 159:3,6,13 189:11 aquaculture (1) 29:8;48:25;178:1; antimicrobial (1) appreciate (93) 155:21 7;125:18;126:10; 204:5,25 128:9;141:10;173:19; 143:22 16:21;17:21;26:18; area (8) Aspirin (2) 180:12,13;182:3; antimicrobials (1) 28:22;33:9;35:8;38:1, 56:17;63:13; 159:7,18 assessed (2) 186:1;191:14;193:23; 143:20 4;40:18,19;41:13,20; 177:16,16,24;189:16; 42:17;44:14;48:6,12; 31:16;80:18 212:8 anxious (1) 228:5;237:7 Amy's (1) 49:19;57:4;64:24; 160:5areas (7) assessing (1) 18:12 anymore (2) 66:7,10;69:7;70:5; 15:21;65:9;124:10; 98:12 analysis (5) 194:14,15 76:2;78:25;83:14; 171:16;191:22,24; assessment (4) 17:16;87:16; anyways (2) 87:19;94:19;104:11, 232:10 211:2;212:20; 209:16;226:7;229:14 103:8;176:18 17:105:1,20,22; arena (2) 213:6,12 106:12,15,17;109:9; assign (1) analysts (1) apartments (1) 125:23;170:4 184:21 147:13 110:22;111:3;114:14; argue (1) 209:23 analytical (1) **APH (2)** 115:25;117:6,19; 132:21 assignment (1) 124:1 181:3;235:18 122:24;127:3;128:6, arguing (1) 40:9 analyze (1) apologies (1) 12,18;132:5;133:9; 203:6 Assistant (2) 134:10;139:16;144:4; 188:25 187:22 argument (1) 8:20,25 analyzing (1) apologize (3) 145:3,24,25;153:17; 201:4 associate (1) 215:17 26:21;177:4,8 157:13,14;163:1; Arizona (3) 14:23 ancillaries (2) app(1)166:15;168:2;169:18; 31:17:32:1:184:9 associated (4) 98:7:214:23 116:21 170:7;173:22;175:4, arm (1) 31:8:46:18:124:17: ancillary (1) apparently (1) 80:18 147:18 10.18:176:25:177:9: 120:8 235:2 181:21:182:2,14; arms (1) Association (17) appear (1) and/or (1) 192:8;193:3;194:1, 58:11 14:16;22:22;33:5,6; 199:9 Arnone (9) 172:17 20;195:9;199:15; 34:20;43:14;63:25; 200:2,13;205:16; 106:20;114:20; 71:14;92:15;108:11; Andea (1) appeared (1) 157:22 207:2;211:7;214:8; 118:21,23,23;121:14; 118:25;142:6;166:7; 196:12 122:8,25;123:10 215:5;218:9;219:21; 183:2.3:195:5:223:6 Andrea (3) **Appel** (10) 99:16;106:19; 7:3;9:21;11:23 227:25;231:5,7; Association's (1) around (45) Andy (10) 114:19,22,22;116:3, 232:21;236:3 6:12:15:9:19:9: 24:20 91:17;99:15;100:7; 18;117:19;118:17,20 appreciated (4) 27:15;29:4;30:5;34:6, Assurance (2) 101:25;102:7;103:12; applaud (1) 19:13:45:10:57:6; 18:37:1:38:10:53:7; 91:22;161:14 104:16,21;105:1; 19:25 104:20 58:12;59:6;62:19; assuring (1) 106:14 applause (1) appreciates (2) 63:20;66:20;73:11; 184:13 86:15;90:2;96:23; 9:24 animal (12) 44:25;155:13 AST (1) 19:24;20:1,2,9,13; 97:23;98:6;99:11; 173:16 apple (3) appreciative (1) 88:25;224:2;230:19 42:20;107:3;158:8, 12:7 100:3;102:21;109:6; **ASTM (3)** 12;159:15;207:25; 195:15;211:11,13 apples (4) approach (10) 114:3;127:6,9,22; 87:11;228:20,22,23 208:3 21:25;66:6;87:22; 128:14;133:4,25; astonishing (1) animals (6) applicable (1) 96:1;115:11;126:24, 150:2;154:11,22; 171:18 158:11,18,18,21; 92:14 25;167:5,19;208:23 158:17:192:15,19; atmosphere (1) 160:6:237:9 applicant's (1) approaches (1) 193:7:200:17:225:23: 228:21 annotating (2) 122:18 98:12 232:16;236:25;238:1 atop (1) 85:19,20 application (6) 99:3 appropriate (3) arrives (1) 64:18;75:2;88:14; 97:20;183:13; annotation (9) 108:18 attached (2) 161:7,10;163:22 214:18 ARSENAULT (37) 149:15;150:1 42:7;43:2;84:17; 97:13;121:1;122:3; applications (1) approval (5) 5:3,4,10;9:21;10:1, attacks (2) 89:2 161:6;163:19; 156:5,10;197:13 3,6,9,14,17,19,24; 9:16:13:7 annotations (1) applied (6) 179:1,3;195:21 11:1,4,6,9,11,14,17, attempting (1) 173:15 39:14:75:4:97:16: approve (1) 19;13:22;14:1,9;30:9, 148:19 announce (2) 119:12;229:13; 158:14 14:32:20:67:12: Attendees (1) 13:14;20:2 230:12 approved (14) 91:18;129:1;146:7, 5:21 applies (1) 39:22;40:12;80:15; 13,16,19;170:25; attending (1) announcement (1)

Burke Court Reporting & Transcription (973) 692-0660

- Vol. 1 April 23, 2024

- Vol. 1 April 23, 2024

Spring 2024 Meeting				April 25, 2024
67:22	40.2 14.141.2	headr (5)	boof(1)	24.1.20.22.26.7.
	40:3,14;141:3	bank (5)	beef (1)	24:1;30:23;36:7;
attention (10)	Awesome (5)	25:15;215:10,11,	237:8	43:24;46:12;57:2;
38:23;55:7;64:24;	38:16;170:21;	12,13	beep (2)	67:1;77:8;94:12;
82:20;94:17;189:9;	178:4,6;234:19	bankers (1)	8:10;14:5	102:22;103:1;108:20;
191:2;217:18;232:2;	р	215:17	beginning (5)	122:23;145:6;161:22;
239:2	B	banker's (1)	13:4;158:25;	170:11;176:2;232:9;
audience (1)		215:14	168:20,21;181:9	235:1
9:6	back (65)	banks (1)	begins (1)	Beyond (9)
audio (2)	7:5;10:1;18:3,4,12,	215:12	161:19	38:20;40:21;41:21;
123:7;157:13	16;19:9;30:5;38:10;	banned (2)	begs (1)	51:7;83:5,20;149:5;
audits (3)	51:11;53:7;61:3,4;	229:24;230:6	51:4	153:6;234:8
65:17;210:14;233:7	63:20;69:20;73:3,4,	bar (5)	behalf (5)	BHC (1)
August (1)	11,23;74:20;75:8;	5:24;73:16;82:25;	15:2;19:19;81:6;	230:7
63:4	79:5,8,10;85:20,24;	212:17,24	116:8;195:9	bicarbonate (6)
Aurora (1)	86:6,19;89:3;94:8;	barrier (3)	behavior (1)	88:9;223:4;224:10,
20:4	95:8,9;100:3;108:25;	57:9;183:18;191:7	108:14	10,13,15
authentic (1)	112:9,14;132:1;	barriers (13)	behemoths (1)	big (14)
111:22	136:21;137:4;138:23;	16:1;25:8,10;57:7,	34:7	9:24;59:3,11;64:1;
authority (8)	139:2;146:8,22;	13;148:17;189:25;	behind (6)	70:9;101:12;103:20;
40:1;47:2,5,8,16;	148:22;150:10;	191:12,18,20;192:3;	37:14;46:17;76:17;	105:15;130:12;135:3;
48:24;49:20;234:8	157:18;168:7,7;	193:5,9	82:19;116:16;157:24	201:17;202:24;
authorized (1)	179:5,25;180:12,22;	Barton (4)	believes (5)	221:23;229:20
48:9	181:9,13,13,16;	38:13;43:8,12,14	19:24;59:16;82:21;	bigger (2)
autoimmune (1)	186:21,22;193:10;	base (2)	156:20;183:12	201:25;234:7
69:18	205:23;218:25;	76:9;201:25	Bell (7)	biggest (4)
AUTOMATED (3)	222:12;229:20;	based (21)	14:11;19:9,11,16,	25:8;105:6;221:13;
5:9;181:19,24	237:10,25	9:10;17:1;41:6;	16;21:24;22:8	222:2
availability (9)	backbone (2)	56:3;60:22,23;77:14;	Bellcare (1)	Bigham (1)
56:3;87:22,25;	70:20;71:17	79:17,24;89:21;	225:21	197:17
96:23;97:10,14;	backing (1)	97:25;98:15;108:4;	below (2)	Bill (1)
122:2;131:6;196:1	212:19	121:11,11;127:19;	31:19,21	58:7
available (28)	backsliding (1)	128:4;208:21;209:24;	Benbrooks (1)	billion (2)
6:5;16:15;18:20;	150:2	212:21,25	225:22	136:11,12
20:21;50:10;59:20;	back-to-back (1)	basic (1)	beneficial (4)	billions (2)
74:12;97:7;101:5;	220:2	199:10	33:16;90:15;	70:10,11
119:13;120:12,13,16;	bad (6)	basically (7)	180:25;220:5	bin (2)
122:11;143:25;	99:10;107:21;	103:24;107:7;	benefit (8)	27:25;114:8
155:22;159:6,7,8;	129:2;203:1,1;238:25	110:3,4;116:23;	78:1,4;79:21;101:6;	binding (1)
166:10;169:11;184:6,	bag (2)	134:16;151:7	140:23;159:15;	39:17
10;197:8;210:18;	149:5,6	basis (3)	195:24;199:21	bio (1)
216:9,25;229:18	Bagley (1)	158:17;209:17;	benefits (9)	211:24
avenue (1)	197:18	218:20	16:14;17:6,12;31:7;	bioactive (1)
195:17	bags (10)	battle (2)	64:18,19;100:16,23;	95:2
average (4)	130:16,19,20;	71:9;205:11	184:6	bio-base (1)
62:10;179:19;	147:6,11;148:10;	bean (1)	berries (1)	150:15
180:7;196:20	149:9,14,15,17	90:21	222:22	biocycle (1)
avoid (5)	Baker (9)	beans (1)	berry (3)	150:6
9:15;125:8;161:25;	225:9,14,19,21;	231:20	224:7.12.20	biodegradable (2)
196:21;229:7	228:14;230:1,4,22;	bear (1)	besides (1)	173:9,11
avoidable (2)	231:6	83:23	27:2	biodiversity (1)
228:25;229:8	balance (5)	bearing (1)	best (22)	84:4
awarded (3)	125:22;194:5,8;	49:9	19:1;38:1;89:11;	Biofach (1)
78:10,10;141:14	199:10,10	became (1)	92:15,17,21;98:1,11;	17:4
aware (12)	balanced (1)	26:9	101:23;103:19,22;	biologically (1)
17:6;22:4;89:24;	173:3	become (8)	111:24;112:1;115:23;	85:10
94:13;99:24;109:13;	balancing (2)	23:25;54:5;59:7;	124:1,15;130:6;	biology (1)
120:8,12;141:13;	126:8;153:12	64:6;129:14;169:12;	153:6;209:3;210:7;	69:24
157:23;159:24;	bald (1)	176:10;211:11	232:13;234:9	biomass (3)
234:13	230:15	becomes (5)	bet (4)	76:22;140:1,9
Awareness (1)	ball (1)	113:12;123:24;	103:10;106:18;	biosolids (1)
196:7	170:4	179:23,24;180:8	215:9;234:12	167:3
away (7)	Banamine (2)	becoming (1)	better (22)	biowaste (1)
away (7)	150.9.19	150.24	12.14.19.9.20.16	211.25

8:13,14,16;28:2;

159:8,18

12:14;18:8;20:16;

159:24

211:25

Spring 2024 Meeting		I		April 23, 2024
bird (1)	118:15;121:6,19,20,	bottlenecks (1)	174:7;175:7,10;	bunk (1)
110:18	23,25;122:16;123:17;	236:13	182:2,12;206:25	158:21
bit (46)	126:7;127:5;128:5,	bottom (1)	brings (1)	burden (3)
18:6;19:10;29:7;	11;129:7;130:1;	73:17	199:21	65:15,18;190:11
36:12;48:8;51:12;	132:7;133:13;134:9;	bought (1)	broad (7)	burdened (1)
52:10,16,22;54:24;	135:2;138:9;139:5,7,	72:4	31:9;42:8;69:17;	65:7
57:20;69:8;70:7;	12,19,25;140:8,12,15,	box (2)	82:15,17;119:6;195:7	burdens (1)
76:13;96:7;98:2;	21;141:9;142:7;	7:14;176:22	broad-based (1)	15:25
100:21;112:6;113:19;	143:13;144:8,19;	BPI (3)	166:7	burdensome (1)
114:24;115:23;	145:9;147:3;150:20;	133:17;152:25;	broaden (1)	65:12
116:14;122:1,7,17,21;	151:4;152:17,20;	154:21	206:14	bureau (6)
127:8,12;133:18;	153:3,9,14;154:23;	BP's (1)	broader (3)	172:11;174:1,8,14,
136:8;138:11;145:2;	157:12;158:5,6;	85:19	69:1;95:18;104:4	18,22
163:7;175:9;176:1;	162:25;168:6;169:18;	bragging (1)	broadest (1)	bureaus (2)
177:5;186:11;187:8;	170:1,16;171:19;	105:7	68:16	174:10,11
191:7;202:18;211:13,	175:4;176:19;177:1,	brand (1)	broadly (1)	burgers (1)
17;218:1;220:9;	3,6,12;178:9,11;	150:16	43:3	163:16
228:8;236:11	180:22;182:1,4;	brands (5)	broken (1)	Burkina (1)
blackberries (1)	185:1,15,23;187:5,7,	16:4;34:9,14;68:5,	33:14	62:2
222:24	14,17,19;190:3,5,11,	13	brought (3)	burning (1)
bladder (1)	13,17;191:1,5,9,12;	breaches (1)	15:15;90:2;186:6	158:24
80:13	192:4,7;193:11,22;	101:21	brown (1)	bushel (8)
blanks (1)	200:7,13,16;202:3;	break (9)	224:2 Breach (42)	27:9,13,15;179:21;
42:4	204:1,19,22;205:5,20;	51:20;73:10;79:2,5;	Bruch (43)	180:7,8;198:14,15
blending (1) 108:8	206:5,10,13,23;209:7;	146:23;155:3;157:18; 206:11;215:24	10:7,8;16:18;17:8,	bushels (2) 63:6,7
blind (1)	210:2,15,23,24;211:6, 20;215:4;216:24;	breakdown (1)	21;18:13,24;26:15; 28:7,21;40:17;41:12;	business (10)
167:2	217:16,22;218:8,12;	211:16	48:4;49:4,15;55:19;	18:2;81:12;88:5;
blink (1)	217:10,22,218.8,12, 219:4,8,15,20,23;	breakeven (1)	57:4;58:14;62:20;	114:6;123:15;135:22;
193:19	220:3,24;221:8,18,21;	215:20	63:17;77:22;78:24;	168:10;199:22;203:8,
blood (1)	223:1;224:24,24;	breast (1)	103:12;104:16;109:8;	24
85:14	227:24;229:23;230:3,	85:14	110:22;125:19;127:3;	businesses (2)
blue (1)	14;231:4;233:15;	bred (1)	141:11,20;173:20;	147:15;149:25
100:13	236:2,5,11;237:19;	79:24	174:13;175:2;180:14;	busy (5)
blueberries (2)	238:24;239:1	brewery (2)	181:20;182:4;186:2,	16:21,22;18:17;
33:3;222:24	Board's (4)	163:15,16	23;193:25;194:19;	22:18;33:10
blueberry (2)	9:11;45:1;64:4,24	Brian (25)	212:10;213:3;214:7	button (6)
33:12,24	boat (2)	10:15,17,19;25:1,2;	Brunswick (1)	6:6,7,19;7:13;8:3;
Board (238)	107:16;114:10	89:18,18;102:5,5;	33:4	181:23
5:6,6,14;6:3,15;	body (7)	121:5,21,22,24;134:8;	Bryce (11)	buy (9)
9:10,12;10:2,16,18,	80:20,24;81:10;	151:2,16;206:12;	123:12;128:22;	68:12;72:1;105:4;
23,25;11:3,5,8,10,13,	177:20;226:1;227:4;	225:9,14,15,17,20;	135:17,20;138:6,9;	148:22;187:10,11;
16,18;12:2,19;13:11,	233:21	227:22,24;231:7	139:19;141:11,20,22;	202:25;226:12;
18;15:20;16:4,9,11;	bombers (1)	bridge (1)	179:11	230:18
19:18;22:15;25:3; 26:12;29:2,25;32:14;	5:22	36:9 bridging (1)	buckwheat (1)	buyer (3)
20:12;29:2,25;32:14; 33:4,8;35:3,7;36:15,	boots (1) 62:6	bridging (1) 218:4	198:21 budget (1)	27:14;29:8;220:13 buyers (8)
18,22;37:13;38:3,20;	border (1)	brief (1)	168:24	23:17;27:17;29:13;
41:22;44:6,19;53:13;	236:7	65:23	buffers (1)	35:21,21;36:1,10,11
54:6;58:17;60:14;	borrow (1)	briefly (5)	26:3	buying (2)
66:11;67:9,22;68:19;	97:1	5:19;68:1;74:5;	build (2)	32:6;196:20
69:7;70:5;71:11,20;	Both (32)	166:17;220:8	181:3;189:24	buzzer (1)
72:15,16;76:1,6,12;	7:23;22:22;26:20;	bright (1)	building (8)	144:5
77:2,19;83:9,14;84:2;	27:14;31:16;33:16;	14:3	15:21;27:1;43:22;	byproduct (1)
86:14;87:16,21;	43:17,23;70:13;	bring (8)	103:17;166:11;	156:17
89:13,20;90:3;94:6;	72:21;82:5;87:20;	65:1,5;116:3;137:9;	179:22;181:8,8	
95:5,9,12;96:18;	91:5;117:17;119:4;	165:4;174:22;232:2,	built (4)	С
102:7,10,16,19;	134:23;140:2,22;	13	155:9;179:15,18;	
103:14,16;104:25;	156:6,7;162:11,11;	bringing (18)	180:6	C/N (7)
105:19;106:12;107:9;	182:2;197:18;202:16;	17:6;77:23;82:20;	bump (2)	130:3,4,6;131:21,
111:2,6;113:5;	203:6,15;206:20;	83:21;109:15;136:21;	213:22;222:5	24,25;132:3
114:14;115:1,3,8,21,	215:17;222:22;223:9;	138:10;139:8,16;	bunch (2)	CACS (4)
24;116:8,9;117:5,8;	235:22	154:8;169:19;173:24;	129:22;174:4	61:19;111:7;

Min-U-Script®

Burke Court Reporting & Transcription (973) 692-0660

(5) bird - CACS

- Vol. 1 April 23, 2024

199:14:232:8 48:15,25;49:10; 50:16;51:10,13: calcium (2) 86:2,17 53:11:58:1.8:60:7.19. calculating (1) 22;62:15,16,23; 235:17 63:22;64:6;67:15; Caldwell (21) 68:9,13;70:2,17; 10:15,16;25:3; 71:25;73:21;75:4,12, 26:12:89:20:90:3; 12,13;76:7,17,19; 102:7,10,16,19; 77:16,24;78:1;79:13; 121:25;122:16;134:9; 81:19,20;83:10,12; 135:2;151:4;152:17, 85:3;86:21,21;87:7; 20;153:3,9;206:13,23 88:2,3,4:90:2,6:95:7; calendar (1) 97:15,17;99:18; 216:19 100:3,6;101:12,16,24; calibrate (1) 102:20,25;106:24; 98:18 111:15,25;114:6,21; California (19) 116:14;121:8,18,18, 31:17;32:1;81:22; 23;122:25;126:17; 82:4,13,14,22;83:2,5; 127:8,21;128:23; 107:24;133:1;148:21; 129:20;130:13,14; 131:5,9,22,25,25; 149:18:152:16; 153:25;154:1,9,12,18 132:21,24,24;135:4, call (25) 13;138:10;142:1; 10:2;11:22,23; 145:1,5,25;146:24; 13:13,19;20:17;26:6; 148:13;149:2,5; 42:9;44:19;57:12; 150:9;153:23;154:2; 67:22;69:17;78:7; 155:13;158:2;159:6; 79:3;107:6;122:24; 160:4,16;162:17; 123:1,2;134:25; 163:9,24,25;164:1,2; 137:8;146:20;178:5; 165:6:170:11:171:4. 227:10;229:2;238:2 6,7:174:6,24,25; called (7) 175:8;178:16,20; 6:15;7:19;24:12; 179:7:181:6:182:10, 53:8;63:21;96:17,24 22;183:17;185:9,11, caller (1) 13,13,18;186:10; 122:23 187:2,4;188:7;190:7, calling (3) 19:191:5,9,11: 5:6;26:17;105:21 192:22;193:22;195:2; 196:4,8,19;197:19; calls (2) 217:17:220:13 198:6,7:199:20; calves (1) 200:23:202:7:203:7. 159:20 7;204:2,5;208:3; came (7) 209:23;210:22; 65:24;112:10; 211:16;213:10;215:4, 136:2;138:23;179:5; 19;216:15;217:12; 214:23;230:24 218:3;220:9,11,12,13; camera (5) 222:17,19;225:18; 7:22,23,24;10:6; 226:8;227:12;228:7; 171:1 229:6;230:9;231:13, can (249) 17;232:22;234:20,25; 6:1,7,8,17,18,21; 235:5,10,10;237:12, 7:10,21;8:13;10:13, 16,20 14;13:14,22;17:13; Canada (1) 18:20,25;19:7,9; 197:5 20:15;21:9,23;22:12; Cancer (3) 80:17;81:1;196:11 24:23;26:6,10;29:4,6, 21;30:17;31:6;32:5, cancers (1) 22,25;33:19;34:1,2; 80:12 35:4,7,10,16,21,22; candidates (1) 36:1,9,24:37:10,13; 193:23 38:17;40:10,13;41:3; capability (1) 43:11;44:13,22;45:8, 124:2 20,21;47:13,23,25; capable (1)

59:8 capacity (4) 15:21;82:2;108:22; 172:24 capital (2) 15:15;191:17 capitals (1) 217:23 caption (1) 6:6 captioning (2) 6:5.8 capture (3) 124:5;147:24;150:5 capturing (2) 147:12,22 carbon (5) 90:10;142:21,25; 144:9;172:7 carcinogen (2) 80:8,21 carcinogens (1) 80:20 care (6) 19:24;20:1;44:12; 115:12;157:16; 232:14 cared (1) 158:11 career (2) 107:2;158:10 careful (2) 33:17:208:25 carefully (2) 164:20;205:25 caretakers (1) 158:16 cargo (11) 108:18,19;112:10, 11,23;113:7,23,24,25; 114:3,7 Carl (1) 165:9 Carolyn (2) 10:20,22 carried (1) 24:3carrot (1) 33:23 carrots (1) 229:5 carry (1) 15:12 carrying (1) 220:17 carryover (1) 200:4 cart (1) 148:14 carte (1) 169:16 case (4) 70:2;154:13;217:2;

218:24 cases (7) 28:14,15,18;29:19; 34:17:65:12:98:21 cash (2) 215:16;220:15 Cat (2) 56:10:57:2 catastrophic (1) 88:22 catch (3) 125:12;134:24; 238:1 catch-up (1) 21:13 categories (2) 40:6;127:1 category (3) 34:24;42:8;156:8 cattle (4) 158:14,17;236:21, 21 caught (1) 156:14 cause (3) 80:12;123:7;230:14 caution (1) 80:24 cautious (1) 131:4 CC(1) 6:6 CCOF(3)81:23;82:2,21 CDFA(1) 129:10 celebrate (2) 20:25;180:19 celery (5) 79:23,23;80:5,10, 21 Cell (1) 95:11 center (4) 5:23;63:2;150:8; 188:14 centered (1) 188:15 Central (6) 60:24;62:15;73:24; 75:10;76:3;100:9 **CEO**(1) 215:10 cert (1) 110:16 certain (7) 49:7;75:4;109:11; 195:15;201:21;229:3; 230:8 certainly (13) 48:20;52:18;53:2; 57:23:58:9:66:8: 89:25;90:25;145:5;

- Vol. 1 April 23, 2024

170:9,12:176:22; 217:21 certificate (2) 107:25;233:4 certification (39) 12:10:14:19,21; 15:12,24;16:1;18:2; 19:21;34:16;44:16, 20;57:8;81:4;91:24; 117:3;118:6;127:12, 25;135:24;136:17; 151:20;156:25; 160:20;163:24; 168:21;169:7,14,20, 21;170:6,10,10; 191:19;193:6;195:5, 8;199:11;207:7; 228:15 certified (35) 21:8,11;23:1;29:20; 33:2,11;34:3;48:10; 74:2;80:4,8;81:23; 82:3;92:4,6;117:2; 119:15,17,20;120:13; 122:13,18;147:5; 148:1;149:22;150:17; 153:1;156:25;169:12; 194:3,13;208:15; 212:14,15;235:1 certifier (10) 15:4,10:54:22; 65:16:92:17:110:3.3. 4:126:15:213:19 Certifiers (48) 14:16;15:7,17; 16:24;17:2;21:9,18; 34:14;47:23;48:20, 21;49:1,6,9,19;50:7, 10;52:5,11;65:8,21; 66:6:81:3,5:92:10,14; 93:10;95:17;97:25; 98:8:99:9:122:9; 126:16,18,22;168:9,9, 11;183:20,21;210:8; 211:3;226:6,20; 227:1,2;233:4,13 certifies (1) 195:5 certify (8) 22:20;166:11; 189:11:194:14.15; 195:10;207:8;212:16 certifying (8) 16:23;17:3;47:1,5, 7,7,14;169:6 **CFR** (2) 155:17;156:3 chain (28) 21:13;30:25;35:15; 46:9,16:47:24:48:7, 16;101:13;107:14; 109:21;112:1;123:5, 7;124:3;153:24;

Spring 2024 Meeting				-
177:17,21;183:4,6,8,	209:5;210:22,25;	chat (8)	118:5;194:13	
12,15;200:19;209:11;	211:4;212:7,10;	5:23;6:1,4;7:4,14;	Chris (1)	
210:12,13;225:24	213:3;214:7,9;215:2;	9:16;19:8;154:11	170:9	
chains (4)	217:14;219:17;221:7,	chats (1)	Chuck (1)	
34:5,5;68:7;112:6	19;222:7,12;225:2;	6:2	225:22	
chair (271)	227:22;231:7,14,16;	0.2 Cheap (1)	chunk (2)	
6:16;8:15;9:12;	232:19;233:22;234:1,	199:23	229:20;236:20	
10:5,8;12:2,4;13:25;	7,12,17,19;236:1;	cheaper (1)	circle (11)	
14:7,10,14;16:17,18;	237:25;238:6,8,10,12,	34:16	19:9;30:5;38:10;	
17:8,21,25;18:11,13,	14,16,18,20,22	cheaters (1)	53:6;63:20;73:11;	
24;19:3,5;21:23;22:2,	chairman (1)	233:12	100:3;146:21;171:7;	
9,21;24:25;26:13,15;	166:4	cheating (1)	193:10;222:12	
28:7,21,24;30:2,5,13,	chairs (1)	221:15	circling (2)	
15,18;32:15,18,21,24;	68:21	check (6)	73:22;237:25	
35:5;36:17;38:6,9,15;	Chairwoman (1)	85:24;86:6;91:24;	circulate (1)	
40:15,17;41:12,17;	166:5	93:9;146:14;171:7	121:23	6
43:6;45:14;48:2,4;	challenge (3)	checkboxes (2)	circumstance (2)	
49:4,15,16;51:20;	153:11;168:11;	209:18;210:10	211:11;213:21	0
53:4;55:18,19;57:4;	177:19	cheerfully (1)	circumstances (1)	
58:14,15;60:17;	challenged (1)	183:17	226:5	(
62:18,20;63:17,18;	202:11	chemical (7)	citations (1)	
66:4;67:10,15,17,19;	challenges (11)	28:19;101:2,7,11;	80:25	(
69:4;70:4;73:9,16,19;	29:7;37:15;54:13;	105:12;106:2;196:21	citrates (1)	
75:23;77:20,22;	59:20;84:4;87:19;	chemically (1)	119:3	
78:24;79:1,10;81:14,	138:12;188:21;194:4;	85:10	citric (17)	(
17;83:7,15;85:17;	237:18,21	chemicals (6)	86:15;96:24;97:6,8,	
86:2,7,10,13,16,21,	challenging (3)	105:17;106:9;	16,18,19;119:2,4,11,	
24;87:4;89:17;90:4;	88:1;237:2,7	167:2;196:12;226:11;	12,14,16,17,20;122:1,	(
91:12,14,19;94:3;	chamber (1)	229:3	6	
95:4,7;96:21;97:23;	228:24	cherries (1)	City (4)	(
99:5,14,18;100:1;	chance (7)	87:11	147:2,7,22;148:23	
101:25;102:4;103:11,	6:11;33:9,24;111:9;	Chicago (1)	city's (1)	(
12;104:16,18,21,24;	136:24;141:4;210:16	220:2	147:23	
106:14,18,23;109:5,8;	chances (1)	chicken (1)	claim (2)	
110:22,25;114:17,19;	190:5	59:6	226:2;227:5	
115:18;116:7;117:7;	change (15)	chickens (1)	claims (2)	
118:18,21;121:3,22;	6:8,24;8:13;35:19;	62:13	51:2;173:7	(
123:9,11;125:17,19;	84:21;122:3,4;	children (1)	clamshell (1)	
127:3,4;128:8,18,21; 129:2;131:7,10;	160:24;161:1;162:19; 168:12,15;181:7;	67:7	149:12	(
133:12;134:8;135:10,	189:9;238:4	chime (1) 71:21	clamshells (1) 149:4	
15,17;138:6;139:18;	changed (2)	chimed (1)	clarification (5)	•
141:10,11,20,22;	101:2;137:24	70:25	46:25;47:23;	
144:5;146:2,5,10,15,	changes (11)	China (2)	187:15;190:12;197:9	
17,21;148:24;151:2;	15:15;37:15;65:17;	112:12;113:21	clarified (1)	
153:13;154:24;155:2;	87:22;111:13;158:10;	chloride (2)	143:12	
157:9,15,17,21;	182:5;184:18;200:3;	86:2,17	clarifies (2)	
160:12,15;162:23;	204:23,25	chlorines (1)	153:9;187:20	(
164:21;165:16,23;	changing (4)	230:7	clarify (4)	
166:1;168:3;170:19,	6:25;138:4;161:3;	choice (1)	47:4,12;66:16;	
23;171:5;173:18,20;	162:9	116:23	140:6	(
174:13;175:2,3;	channel (1)	choices (2)	clarity (4)	
176:20;177:10;178:4,	132:9	195:13;237:1	22:1;41:23;55:11;	
12,14,17;180:11,14;	channeling (1)	choline (1)	60:5	(
181:20,22,25;182:16,	82:7	95:25	Clark (3)	
20;184:24;185:12;	channels (2)	choose (4)	8:19,23,24	(
186:1,2,23;187:1,4,	23:15;216:13	34:1;97:4;150:4;	classic (1)	
15,18,21,24;190:23;	character (1)	181:13	67:24	(
192:6;193:16,25;	13:7	choosy (1)	Classification (5)	
194:19,21,24;196:25;	charge (2)	164:8	92:7,10,16,21;93:4	(
197:24;198:3,6;	29:23;164:4	chose (2)	classified (1)	
200:5,15;205:19;	Chase (1)	156:4;194:15	80:19	(
206:8,12,17;207:2;	150:8	chosen (2)	clause (1)	
	1		1	L

- Vol. 1 April 23, 2024

122:2

clean (6) 71:17,18;130:18; 132:18;133:3;154:5 cleaning (3) 143:24;153:23; 223:12 cleanliness (1) 137:24 clear (13) 41:21;43:23;44:18; 55:13;102:8;136:5; 169:13;184:5;187:13, 23;193:9;200:8; 220:25 clearly (1) 13:9 click (1) 6:6 clicking (1) 7:12 clients (4) 81:5,6;183:22; 209:17 climate (6) 63:11;84:4;147:24; 154:16;183:9;184:5 climate-induced (1) 184:4 cling (1) 71:17 close (12) 6:8;9:20;29:6; 53:16;58:8;63:5,7; 107:2;148:13,19; 152:14;160:21 closed (2) 6:5,6 closely (1) 125:15 closer (1) 96:7 closest (1) 172:18 closing (5) 68:24;81:2;148:2, 15;153:17 CO2 (6) 143:3,7,11,15; 144:11,24 **Coalition** (5) 53:14;166:14; 171:12;188:10;195:7 Coast (3) 29:11;62:3;133:1 co-dependency (1) 72:7 codex (1) 64:23 codified (1) 60:12 codify (1) 60:2

- Vol. 1 April 23, 2024

Spring 2024 Meeting				April 23, 2024
codling (1)	203:13;205:24;	101:25;106:15;111:3;	97:18;159:14	complexing (1)
88:20	212:23;219:18;228:9;	114:15;115:18;117:6;	communicate (2)	84:13
co-formulants (2)	229:24;231:4;232:5,	121:3;123:19,20;	70:13;118:11	complexity (2)
227:11,18	21;233:3,10;235:2,7	125:20,22;127:6;	communicated (1)	15:11;36:2
coherent (1)	co-mingling (1)	129:7,19;134:10;	156:6	compliance (9)
59:8	226:11	135:10;138:6;141:23;	communicating (2)	47:11;93:22;
cohesive (1)	comment (73)	142:14,20,21;144:9,	120:7,7	123:21;142:5;207:14,
16:7	5:12,13;6:3;8:15;	10;145:21;146:3;	communication (1)	19;208:8,13,15
Colder (1)	13:5,6;15:3;16:15;	148:24;149:2;151:5;	43:24	compliant (1)
205:14	18:15;22:17;28:8;	152:2;156:7;157:10;	communities (4)	183:14
Colfer (6)	32:13;33:9;40:8;44:3,	160:13;163:1;165:6;	16:2;70:21;154:12;	complicated (5)
22:11;30:16,17,19,	9;45:12;46:7,10,24;	166:18,22;168:7,8,18;	166:11	37:22;99:4;108:24;
20;32:17	48:12;51:11;52:19;	173:4,22;175:5,7;	community (35)	112:8,17
coliform (3)	55:22;56:11;58:21;	176:2,4;177:18;	12:7,15;14:23;18:3;	compliment (1)
31:12,19,23	65:23;66:12;72:25;	180:12,16;182:14,17;	22:16;24:24;26:5;	186:3
collaborating (1)	78:2;81:24;82:1;	183:7;184:20;186:3,	42:9;43:21;53:15;	complimentary (1)
125:15	89:15;92:3;94:2,22;	4,6,8;188:3,25;189:3,	60:2;68:24;70:16,25;	237:20
collaboration (1)	103:2;115:6;116:11;	17;190:16;191:2,15;	71:22,24;72:7;98:19;	comply (4)
14:19	117:19;123:18; 128:12;129:21;	192:7,8,9,14,14,16,	148:22;166:7;167:9;	80:15;126:20;
collapses (1) 110:13	128:12;129:21; 133:16;144:4;147:4;	19;193:5,9;194:1,22; 196:24;197:3,25;	171:20;175:17; 188:13;190:7;192:23;	153:25;213:5 component (6)
colleague (5)	154:10;157:13,14;	200:17:204:12:207:3,	194:5,7;196:24;	90:19;204:2,24;
18:8;57:19;97:1;	165:1,2,3;168:12;	10;209:8;211:7,7,21;	204:7;212:25;215:11;	224:7,15;236:14
182:3;183:2	174:1;175:23,25;	212:11;214:16,17;	217:18;220:6;228:10	components (2)
colleagues (1)	178:8;180:11,17;	215:5;217:14;219:21;	companies (12)	119:5;173:9
197:17	182:2;185:6;192:23;	222:8;223:2,7;225:2,	14:24;68:6,15;71:5;	composing (1)
collect (2)	193:4;195:9,14;	3,5,22,23;231:8;	136:12;137:1;142:10,	67:5
213:21,22	197:16,19;207:8;	232:19;233:23,24;	12;156:8;178:22;	composition (2)
collecting (4)	211:9;224:25;232:20;	236:7;237:23;238:24	183:3,5	195:20;211:14
128:15;207:16;	233:16;238:23	commercial (9)	company (3)	Compost (96)
214:1,3	commented (3)	63:12;81:9;97:10,	91:23;129:6;235:13	31:4,5,11,15;32:1,
collection (5)	66:13;105:10;	14;120:15;122:2;	comparable (1)	12,13;66:13,15;67:4;
124:11;130:20;	214:10	134:23;147:1;161:24	199:7	84:8;87:18,20,25;
147:13,25;148:17	commenter (1)	commercially (6)	compare (2)	88:1;90:7,13;91:1;
collective (1)	8:7	20:21;119:13;	57:1;219:12	129:5,11,14,18,21;
188:21 colon (1)	commenters (10) 6:15;9:4;12:22;	120:12,13,16;155:22 commission (2)	compared (7) 28:15;31:24;51:2;	130:12,25;131:2,20; 132:3,6,11;133:4,6,
80:13	30:10;40:23;90:12;	188:24;189:2	88:14;159:18;219:5;	15,21;134:4,25;
colonial (1)	125:25;126:2;171:22;	Commission's (2)	235:8	135:1;147:4,6,8;
33:12	187:25	64:6;191:10	compatibility (2)	150:14;151:13;154:1;
colonies (1)	commenting (9)	commit (1)	84:24;143:15	160:23,25;161:2,5,6,
223:15	22:19;28:7;43:24;	16:9	compatible (1)	12,13,14,24;162:1,12,
color (2)	44:6;109:9;145:13;	commitment (7)	156:11	13,15,22;163:5,6,19,
188:18,22	160:23;171:12;176:4	71:3,3;94:1;116:10;	compete (2)	22;164:2,18,19;
Colorado (2)	comments (177)	190:21;223:1;224:25	72:23;82:23	166:17,23,25;167:18,
67:21;205:13	8:6;12:12,19,24;	committed (5)	competing (1)	21;173:8,10,10,12,14;
combat (1)	14:25;15:2,5;16:12;	15:13,19;107:22;	219:2	176:7,14;195:16,25;
224:2	18:1,5,9,16,18;19:19;	125:15;229:21	complaining (1)	196:22;208:9,12,12,
combine (1)	20:14;24:20;25:4;	Committee (7)	175:11	15,18,18,19,20,23,24,
152:4	28:22;32:15;36:19;	5:5;9:11;22:21;	complaint (1)	24;209:1,3;211:9,11,
combining (1)	38:6,22;40:18;41:20,	33:6;142:15;223:7;	213:25	15,23
71:1	25;42:1;43:15,17,20;	232:8	complaints (1)	compostable (22)
comfortable (1) 69:11	44:5,11;47:20;48:6,9;	committing (1) 107:25	182:13	84:7;147:5,11,21;
coming (38)	51:22;55:7,20;56:1; 57:6;58:19;63:18;	Commodities (5)	complete (3) 93:10;209:16;212:5	148:2,10;149:3,21,22; 150:4,12,17;151:21;
14:11;15:6;18:9;	66:4,10,24;69:4;70:6;	107:1,3;125:6;	completed (1)	150:4,12,17,151:21, 153:1,23;154:22;
19:11;41:2;50:9;74:7;	71:22;73:9;75:23;	142:16;199:20	130:5	161:22;162:1,6;
94:14;101:21;108:9;	76:2;79:1;80:25;	commodity (2)	completely (7)	167:16;195:15;
112:11;113:21;122:9;	81:15;83:4,7,10;	198:18;215:16	101:22;102:14;	196:16
131:13;136:7,22;	85:17,19;87:2,15;	common (5)	122:25;141:3;152:8;	compostables (5)
137:4;140:18;145:13;	89:17;90:1;92:3,11,	92:15;102:24;	179:16;235:9	66:19;133:20;
157:22;176:21;178:5;	19;93:9;94:7;97:17;	143:20;160:4;228:3	complex (1)	161:18;162:3,10
188:5;199:4,5;	98:4;99:15;100:2;	commonly (2)	37:24	composted (1)
	1			l

134:14 composter (3) 67:5;151:17:176:6 composters (12) 148:16:152:10; 161:7,15,17,23;162:2, 5;163:12;164:8,13; 165:5 **Composting** (18) 129:6:130:8:134:1, 5,12;135:13;150:19; 151:6:152:6.9; 153:16;154:5,20; 161:8,18;162:17; 196:2,3 compound (1) 80:1 comprehensible (1) 13:11 comprehensive (2) 148:19:150:19 compromise (1) 164:4 con (1) 131:16 concentrate (1) 162:17 concentrates (1) 125:6 concentration (1) 125:7 concept (4) 32:7:134:2:172:22; 208:18 concern (16) 50:11;65:7;100:18; 112:3;133:20;156:15; 166:16,25;172:25; 183:25;185:20; 195:22;202:8;203:9; 214:24;216:21 concerned (9) 54:21:66:14:82:17: 101:10;131:1;132:7; 161:3;196:1,2 concerning (2) 100:16;186:16 concerns (12) 13:12;36:19;50:8; 65:6;80:3;156:11; 186:20;206:1,2; 217:19.19:225:21 concert (2) 36:7:37:19 concludes (1) 238:22 conclusion (1) 157:4 concrete (3) 21:20;125:3;192:22 condemned (2) 38:20:41:20 conditions (2)

69:19:230:10 conducted (2) 183:19;218:20 conducting (1) 142:8 conferences (2) 15:7;154:14 confidence (3) 101:17;125:11,14 confident (1) 149:22 conflict (1) 10:21 conflicts (1) 64:22 confusion (1) 99:7 Congress (2) 79:18:234:10 conjunction (2) 50:21:123:19 connect (2) 7:17;19:22 connected (1) 12:14 connection (2) 18:14;36:10 consensus (1) 58:19 **Consequently** (1) 216:3 conservationist (1) 78:13 conservative (2) 94:23;96:7 conservatively (1) 114:7 consider (14) 41:23:66:2:88:12: 92:24:99:2:119:10, 10:123:3:148:19: 179:5;180:4;196:18; 207:13;225:22 considerable (2) 100:10;120:14 consideration (4) 123:6;149:6; 184:12;209:13 considered (1) 120:17 considering (3) 53:19;97:12;180:4 considers (3) 152:10;183:22; 184:17 consistency (9) 22:6;44:23;53:23; 64:11,18,20;93:10; 119:7;186:9 consistent (10) 14:18;16:7;64:21; 88:15:92:17.21; 169:13;174:17;

183:24:189:9 consistently (1) 175:1 consolidate (1) 71:1 consolidated (1) 151:24 consolidation (10) 34:4,7,12;35:9; 36:20;37:7;70:10,23; 72:13,20 constituents (1) 133:21 constraints (5) 82:2;116:17; 172:25;204:8;217:10 consult (1) 19:20 consulting (2) 54:3;129:6 Consumer (14) 32:3:37:2:69:9.12. 13:81:1:101:16.20: 116:22;125:11,14; 196:20;206:16;228:3 consumers (15) 16:6;32:6;80:3; 81:12;83:22;101:19; 105:5;107:13,13; 116:23:155:13.23; 164:10:206:19; 230:18 consumption (3) 100:12:155:11: 205:10 contact (7) 31:1;52:3,23;53:1; 147:18;157:6;208:11 contain (5) 31:12,13:80:21; 162:6;195:18 contained (1) 39:23 container (2) 22:4;44:24 containers (5) 44:15,21;53:23; 54:19;113:23 containing (1) 84:14 contaminants (7) 124:2:127:1:131:2: 132:6;161:19;162:14, 17 contaminate (1) 32:4 contaminated (3) 163:15;167:9; 183:15 contaminates (1) 84:9 contaminating (1)

contamination (22) 66:18.21:67:3: 123:23;125:5;130:22; 132:16:133:2:148:5. 8:150:3:161:5.9.15. 21;162:21;163:9; 167:8.12:196:14: 226:17,23 contemplate (1) 69:1 content (7) 23:16,18:51:1,3; 98:18:103:7:192:15 contentious (1) 156:2 context (4) 56:13;76:8;84:2; 93:2 continue (22) 5:14;9:1,7,22; 15:17,22;16:7;35:2, 19:43:19:54:20: 55:15;62:15,16; 117:2;130:15;143:8; 148:21;203:9;223:16; 234:25;235:6 continued (14) 15:10:34:7:88:21; 93:15;100:15;160:3, 8;184:16;223:2,8,22; 224:4,9,17 continues (5) 38:25:45:25:68:24; 119:16:155:16 continuing (2) 191:4;200:2 continuity (1) 119:18 continuous (2) 84:3:89:14 continuously (1) 20:1 contortions (1) 150:19 contract (1) 23:7 contracted (2) 27:22;40:11 contraction (1) 204:15 contribute (4) 83:11;156:16; 189:1;190:8 control (15) 6:7;88:16,19;159:1, 2,4,11,17;216:2,10; 218:22;223:10,14,25; 224:11 controlled (2) 143:6:228:21 controlling (2) 34:24:143:5 controls (2)

- Vol. 1 April 23, 2024

17:11:41:6 convenience (2) 40:11:150:1 conveniently (1) 150:3 conventional (37) 21:2;25:19,22; 28:16,19;32:8;54:16; 61:5;72:19,21;73:1; 88:19:102:12,14; 103:5;148:9,10; 150:23:159:14; 181:14,15,16;201:2,3, 16;202:15;215:21; 216:11;219:13; 220:10,21;222:23; 226:4,12,13;227:5; 228:22 conventionally (3) 24:4,8;28:9 conversation (6) 59:25:60:3.8:123:3: 126:11:154:22 conversations (2) 17:18;154:7 convert (2) 61:4;196:3 convey (2) 35:22;170:15 convince (1) 145:18 cooking (1) 62:12 Cool (1) 42:16 **co-op** (2) 19:19;21:3 cooperate (2) 227:12,16 **Cooperative/Organic** (1) 19:17 co-ops (1) 72:8 **Coordinator** (1) 147:2 copious (1) 80:7 copy (1) 210:20 cording (1) 229:2 corn (25) 23:5,17;27:2,12,13; 28:8,16;29:10;61:6,7, 8,8,16;63:6,7;90:21; 100:12,13,14;135:21; 136:23;198:21; 221:24;231:20;232:1 Cornell (1) 103:3 corner (1) 6:19 corp (1)

167:18

71:15

184:11

73:17

68:6

27:24

237:5

179:2

237:14 corporate (2) 34:9:79:22 corporatism (1) 73:3 correctional (1) 82:12 correctly (3) 121:7;185:17; 214:11 correspondence (1) 139:10 cost (25) 28:10,18;61:16; court (1) 78:5;88:16;129:17; 169:5,8;204:25; 215:25,25;216:5,11, 15,21;217:9;218:13, 18;219:5,9,14;222:1, 4;232:5;237:2 cost-prohibitive (1) cover (9) 26:24 costs (8) 25:19;28:8,20; 29:18;88:1;169:14; 218:14;220:17 couldn't (1) 225:11 Council (7) 87:10:118:25: 129:6;135:13;154:6, 21:157:1 count (1) cows (1) 235:16 countdown (2) **CPG** (1) 13:23;14:4 counter (1) 69:23 counties (1) craft (3) 138:19 counting (1) crash (1) 214:2 countries (14) 41:9;62:3,8;63:13; 108:10,21;109:11,25; crazy (3) 136:10,11;199:5; 222:2;230:4,6 country (14) 26:20;41:2;61:25; 65:9;133:5;136:7,13, 25:153:6:158:16; 218:14;222:3;233:3, 21 country's (1) 87:13 counts (1) 177:7 county (6) 74:15;147:2,7; 179:18:180:1.1 couple (22) 25:13;27:5;48:9;

84:11 102:1;104:22;111:6; 121:4:125:18:131:11. crisis (1) 14;162:23;163:2; 167:3 175:22;194:13;209:5; crisp (1) 33:23 219:17;222:13; 230:20 CRISPR (2) coupling (1) 54:14;58:22 212:22 criteria (5) 31:18;32:1,11; course (13) 14:22:40:10:67:23; 46:18:124:17 69:24;104:10;117:24; critical (21) 49:11,11:58:12; 153:4,5,8;167:14; 65:18:81:25:82:10: 179:19;210:13;213:9 83:23;84:2;85:5; 87:23;107:12;110:11, 13;161:2;183:12; Courtney (5) 83:17;87:5;91:15, 184:22;215:15,16; 15;238:10 218:6;223:18;224:19 courts (1) critically (2) 88:12;126:21 108:17 Croeck (1) 75:13:76:19.21.24: 30:16 100:10,22;140:2,10; crop (47) 23:9,23,25;24:3,7,9, covered (2) 12,21;25:7;26:20; 55:3;64:15 27:1;31:2;33:6,12; covering (1) 44:25;45:2,3;61:6,21; 63:3,4;76:19,24; covers (1) 142:23;144:13; 208:10 175:25;177:25; COVID (3) 178:21:179:13,24; 116:18:123:4:150:2 182:4:183:9:184:5.9: 186:4:198:9,20; 158:20 201:12:206:18: 216:12,17,19,20; 219:2;221:24;229:11; cracked (1) 232:8 CROPP (1) 202:22 19:16 130:16,19:149:9 cropping (3) 75:13;76:19;100:22 198:13 crops (26) 23:15;27:3;31:7; crashed (1) 33:16;39:14;44:21; 62:24;76:21;88:7; 205:2,2,3 100:10;124:12;140:2, create (11) 10;196:12;226:8,15; 35:20;72:1;80:11; 229:4,7;230:8,10,13; 235:1,2;236:20; 108:13;148:17;166:8; 172:16;202:23; 237:2,5 216:13;221:2;237:11 cross-contamination (5) 52:23;53:1;89:9; created (3) 70:3;71:25;83:21 108:6;143:23 crowd (1) creates (1) 34:10 195:17 creating (4) crucial (2) 53:23;66:2;183:16; 38:23;188:12 cruising (1) credibility (1) 53:5 125:10 crushing (1) crimp (1) 62:10 crutch (1) crises (1) 160:9

crux (1) 113:16 Crystal (1) 33:3 **CSA (3)** 116:19,20,22 C-to-N(2)90:13,19 culture (2) 189:24;190:1 **cup** (2) 150:25,25 curb (1) 136:19 curbside (1) 67:5 curious (16) 36:21;37:3;42:20; 46:18;48:17;66:12; 94:13;99:20;100:15; 144:22;149:2,11; 153:20:164:23,24; 180:8 current (14) 20:23;34:18;61:16; 67:8;92:9,24;94:21; 123:25;124:4,23; 194:7;212:18;215:17; 226:16 currently (19) 8:20:33:4:39:20; 40:22:48:22:49:19: 51:18:92:20:107:15; 135:24:144:24: 156:25;158:8;159:5, 11;170:4;183:19; 197:11:198:21 custom (1) 49:2 customer (2) 110:15;128:4 customers (6) 33:22;35:23,25; 107:13;150:12; 151:19 customize (1) 6:17 cut (4) 77:9;94:7;172:7; 235:6 cycle (3) 163:4;196:12; 215:18 cycles (2) 215:18;216:18 D daily (1) 158:17 dairies (1) 160:3 Dairy (13)

- Vol. 1 April 23, 2024

20:4;21:2;57:24; 158:4.7.15.25:159:5. 14,22;160:4;196:13; 203:1 Dalton (1) 22:14 damage (1) 224:6 **D'Amore (10)** 10:17,18;97:1; 177:1;205:20;206:5, 10;221:8,18;233:15 **Dan** (9) 81:18;83:17;87:4,7, 9;89:17,20;90:5; 91:12 danger (1) 69:25 dangerous (1) 80:1 darn (2) 130:18:193:17 data (11) 24:15;25:16;56:2; 110:2;182:8;186:11; 226:8;229:14,18,22, 25 database (3) 209:18,22;226:6 databases (1) 56:22 date (1) 126:8 day (15) 9:24;12:6;46:12; 99:2;107:12;140:19; 146:8;181:13,13; 219:21:221:15; 224:23;225:5,17; 235:14 days (6) 21:3,5:31:9:114:5, 6:139:1 DC (1) 117:9 **DDT** (7) 72:10;229:2,4,23; 230:1,5,11 Deakin (15) 30:16;32:19;38:12; 73:12,15,15,18,19,22, 23;76:5,11,16;77:11; 78:12 deal (2) 39:15;203:21 dealing (3) 97:6;170:4;200:24 dear (1) 123:17 debate (1) 156:16 DeBoer (10) 225:12,15;231:9,

64:1;69:5;82:3;90:12;

13,15,18,18;233:25; 234:4.11 debris (1) 147:25 debt (1) 215:19 decades (1) 108:1 decide (3) 28:3:163:13:210:4 decided (2) 26:11:61:4 decision (2) 93:3:149:23 decision-making (1) 184:17 decisions (5) 77:7;84:19;88:3,4; 227:13 deck (3) 57:18:81:18:225:9 decks (2) 11:23.24 decorum (1) 16:13 decrease (2) 27:4;224:14 dedicate (1) 172:2 dedicated (1) 22:16 deems (1) 208:20 deep (5) 33:23;56:17;92:20; 98:20;99:9 deeper (2) 46:4.4 deeply (1) 133:23 defend (2) 35:3;79:19 defendable (2) 134:22,22 defer (2) 18:10;46:8 defiance (1) 34:13 define (2) 13:9;65:21 defined (2) 17:10:152:24 defining (1) 82:4 definitely (6) 103:6;106:7;135:3; 140:25;174:18;181:7 definition (15) 82:7,15,18,21; 120:18;129:21,24; 134:10.16:135:1: 147:4;153:23;172:16, 19:173:10

definitions (1) 152:6 degradable (1) 211:24 degradation (1) 196:10 degree (1) 48:23 **Dehne** (10) 157:25:160:15,19, 20;163:18;165:2,11, 14,22,25 **Dehorning** (2) 158:15,23 delays (1) 128:2 deleterious (2) 80:16;131:23 deliberate (1) 229:12 deliberately (1) 229:13 deliberative (1) 87:21 deliver (5) 18:21;80:1;177:17; 204:6;217:11 deliveries (1) 220:16 delivers (2) 78:3.6 delivery (4) 79:24:116:24: 216:13.13 demand (8) 110:20;119:8; 202:5,12:203:1,7; 205:7:235:9 demands (2) 159:24:202:8 **DeMinter** (14) 195:1:198:4:207:4, 6,7;209:14;210:5,17; 211:1,18,21;213:1,4; 214:14 democracy (1) 9:6 demonstrate (1) 153:1 demonstrated (1) 196:16 dense (1) 148:22 density (1) 147:23 department (2) 147:3;209:23 departments (2) 34:8;129:25 dependent (1) 223:19 depending (2) 123:17;191:25

depends (2) 126:12:210:5 deploy (1) 103:20 depth (1) 171:21 deputy (1) 166:6 derivation (1) 50:23 derived (2) 50:24;51:6 **Derrick (3)** 87:5;91:16;238:12 describe (1) 119:22 described (1) 134:11 describes (1) 161:7 deserve (2) 64:12;107:21 design (1) 236:20 designations (1) 184:3 designing (1) 211:1 desired (1) 207:13 despite (1) 184:5 destroy (1) 112:14 destruction (1) 203:8 detailed (5) 55:7:96:15:124:13: 186:20:215:1 detailing (1) 92:4 details (7) 38:22;40:8,13; 83:10;137:12;145:2; 206:8 detect (1) 124:2 detecting (2) 184:2;185:21 detection (5) 31:19,21;185:3,7, 16 deter (7) 46:8,9,16;47:24; 124:6;125:12;183:14 determine (4) 56:19;191:24; 192:2:208:7 determined (4) 40:7:54:14:93:19; 141:19 determining (4) 46:19;125:3;210:9;

213:13 deterrent (2) 123:22,22 detriment (2) 105:11.12 detrimental (3) 101:8,11;105:14 develop (6) 72:6;80:4;126:16; 131:3:134:16.22 developed (3) 72:5,7;191:16 developing (5) 16:4;80:8;116:21; 134:23;212:4 development (5) 15:4;16:3;123:16; 173:4;176:13 developmental (1) 196:11 devil (1) 206:8 devil's (2) 123:1.2 **DHA (6)** 95:23;96:4;155:6,8, 11;157:7 di (1) 208:17 diagram (2) 47:22:51:12 dial (1) 7:16 dialogue (2) 15:9:65:21 dichromates (1) 80:11 dictate (1) 216:2 didn't (1) 225:19 dietary (1) 226:3 diets (1) 237:21 difference (5) 41:3;52:10,16;88:4; 162:2 differences (3) 17:23;216:11,21 different (48) 5:24:6:11:24:9: 31:18;41:5;50:13; 52:15;60:6;65:9; 76:10,10;78:17;91:2; 100:4,5,11,25;104:3, 6;105:17;107:17; 111:7;113:11,19; 116:22;124:11;128:3; 130:11,11:138:19,20; 150:20;164:11,14,15; 169:24;174:4;176:5; 177:15;199:18;201:6; - Vol. 1 April 23, 2024

202:19:204:17; 210:11:213:2:221:13: 223:25:230:25 differentiate (1) 86:4 differently (3) 60:6:90:21:226:19 differing (1) 178:24 difficult (14) 24:10;36:3;51:16; 54:5;109:3;134:6,7; 136:14;140:20;159:8; 164:10,18;177:22; 203:22 difficulties (1) 6:1 difficulty (2) 184:1;185:21 digestive (2) 69:18;80:11 digitally (1) 135:23 dilemma (5) 133:7,7,7;134:6,7 diligent (1) 162:18 diligently (1) 21:10 Dilip (5) 11:4,6:227:23,23; 228:14 **Dill** (12) 166:3:170:24: 171:6,10,11;174:8,16; 175:21;177:4,23; 178:8,13 dimes (2) 107:19;108:24 Dimitri (1) 10:20 dinnerware (1) 167:17 dioxide (3) 142:21,25;144:9 diphenylamine (1) 228:19 dipping (1) 213:1 dips (1) 42:5 direct (6) 37:8;82:8;87:14; 91:2,8;235:3 directed (1) 144:19 direction (6) 107:17;114:12; 117:10,25;126:14; 176:15 directly (8) 25:4:89:16:109:21; 142:12;183:5;189:21;

Min-U-Script®

Burke Court Reporting & Transcription (973) 692-0660

(11) debris - directly

- Vol. 1 April 23, 2024

232:1:235:6

downsides (1)

228:21,23

drafted (1)

165:21

dragged (1)

dramatically (1)

drastically (2)

23:3;101:13

84:10

201:8

draw(1)

55:6

dried (1)

drift (3)

125:7

dripline (1)

223:13

Driscoll (7)

223:7,8,16,22;

222:21:223:11

224:4,9,17

Driscoll's (2)

driven (1)

116:22

driving (1)

110:17

dropped (1)

dropping (2)

72:9,10

93:22;159:13

75:10;76:21

23:5;24:9;28:19;

88:5;115:5,8,8;

Drug (2)

dry (2)

dual (2)

due (9)

dug (1)

94:8

during (14)

193:20

duster (1)

dwarf (1)

33:19

190:7

dynamics (1)

228:11

152:1,3

61:18

131:14

dozen (1)

68:5

DPA (2)

spring zoz i hiteening		
194:14;217:3	37:1	226:16;232:7
Director (15)	display (1)	doesn't (1)
8:21,25;14:16;	34:23	122:22
53:14;63:24;79:16;	displayed (1)	dollar (2)
81:22;83:20;123:15;	7:10	136:12,12
160:20;166:6;170:10;	disproportionate (1)	dollars (6)
182:25;188:9;195:4	188:22	70:11;78:4;81:4;
directors (1)	disrupter (1)	107:19;108:23;148:6
38:20	224:1	domestic (11)
dirt (2)	disrupters (1)	23:15,19;25:7;
68:18;228:11	84:15	107:23,23;199:6,20;
disagree (1)	disruption (2)	201:23,23;202:2;
9:17	88:23;89:5	217:7
disagrees (1)	distinct (1)	domestically (4)
173:8	46:24	58:11;101:14;
disappointed (1)	distinction (2)	119:16;219:5
156:3	52:10;163:13	dominance (1)
disaster (1)	distinguish (1)	34:10
138:2	150:24	dominant (2)
disasters (2)	distortion (3)	158:18,19
24:4,18	34:13;123:8;157:13	dominated (1)
disconnect (1)	distraction (1)	34:8
74:13	187:22	don't (15)
discourage (1)	distribution (1)	22:3;43:6;45:19;
78:15	34:11	51:18;78:21;122:3;
discover (1)	dive (4)	127:24;131:18;
227:1	46:4;48:7;70:6;	132:23;136:24;137:6;
discovery (2)	92:20	199:5;211:22;220:14;
202:4,6	diverge (1)	225:8
discrepancies (3)	69:8	done (21)
22:4;54:22;93:24	divergence (1)	8:17;13:16;23:17;
discrimination (1)	115:9	25:22;46:21;56:12,
189:1	diverse (5)	21;60:12;78:25;
discuss (4)	24:11,17;70:15;	108:2;109:1,13;
24:22;69:1;131:25;	189:25;190:9	116:5;127:18;153:15;
136:2	diversity (5)	154:14;183:17;
discussed (3)	33:18;76:19;	191:19;209:11;
198:11;200:22;	124:14;142:16;	229:13;233:18
202:5	188:17	door (3)
discussion (18)	divert (1)	28:14;205:10;
32:13;46:10;87:17;	38:23	207:24
89:3;96:23;142:9;	dives (1)	doozie (1)
145:4;172:1;183:9,	98:21	171:15
12;184:5;186:5;	diving (1)	dormant (1)
199:13;208:9,25;	212:5 Division (2)	179:5 DOT (1)
225:23;226:16;232:7 discussions (2)	Division (2) 8:21,25	DOT (1) 29:20
99:11;184:22	^{0.21,23} DL (1)	dots (2)
disease (8)	92:22	7:13;8:1
63:11,14;69:18;	DL-Methionine (1)	doubling (1)
80:10;88:15;196:10;		
	20.18	_ · · ·
	20:18 D-Malic (1)	65:13
223:10,14	D-Malic (1)	65:13 doubt (2)
223:10,14 disenfranchised (1)	D-Malic (1) 92:23	65:13 doubt (2) 79:21;91:25
223:10,14 disenfranchised (1) 188:18	D-Malic (1) 92:23 docket (3)	65:13 doubt (2) 79:21;91:25 dove (1)
223:10,14 disenfranchised (1) 188:18 disguise (1)	D-Malic (1) 92:23 docket (3) 18:19,22;165:18	65:13 doubt (2) 79:21;91:25 dove (1) 214:16
223:10,14 disenfranchised (1) 188:18 disguise (1) 95:16	D-Malic (1) 92:23 docket (3) 18:19,22;165:18 document (11)	65:13 doubt (2) 79:21;91:25 dove (1) 214:16 dovetails (1)
223:10,14 disenfranchised (1) 188:18 disguise (1) 95:16 disinfectant (2)	D-Malic (1) 92:23 docket (3) 18:19,22;165:18 document (11) 32:13;46:10;48:11;	65:13 doubt (2) 79:21;91:25 dove (1) 214:16 dovetails (1) 59:5
223:10,14 disenfranchised (1) 188:18 disguise (1) 95:16 disinfectant (2) 89:8;223:10	D-Malic (1) 92:23 docket (3) 18:19,22;165:18 document (11) 32:13;46:10;48:11; 111:7;145:4;183:12;	65:13 doubt (2) 79:21;91:25 dove (1) 214:16 dovetails (1) 59:5 down (29)
223:10,14 disenfranchised (1) 188:18 disguise (1) 95:16 disinfectant (2)	D-Malic (1) 92:23 docket (3) 18:19,22;165:18 document (11) 32:13;46:10;48:11; 111:7;145:4;183:12; 184:5;199:14,14;	65:13 doubt (2) 79:21;91:25 dove (1) 214:16 dovetails (1) 59:5 down (29) 26:13;27:11,15;
223:10,14 disenfranchised (1) 188:18 disguise (1) 95:16 disinfectant (2) 89:8;223:10 disingenuous (1) 80:5	D-Malic (1) 92:23 docket (3) 18:19,22;165:18 document (11) 32:13;46:10;48:11; 111:7;145:4;183:12;	65:13 doubt (2) 79:21;91:25 dove (1) 214:16 dovetails (1) 59:5 down (29)
223:10,14 disenfranchised (1) 188:18 disguise (1) 95:16 disinfectant (2) 89:8;223:10 disingenuous (1)	D-Malic (1) 92:23 docket (3) 18:19,22;165:18 document (11) 32:13;46:10;48:11; 111:7;145:4;183:12; 184:5;199:14,14; 210:8;214:16	65:13 doubt (2) 79:21;91:25 dove (1) 214:16 dovetails (1) 59:5 down (29) 26:13;27:11,15; 50:5;70:7;71:14;74:1,
223:10,14 disenfranchised (1) 188:18 disguise (1) 95:16 disinfectant (2) 89:8;223:10 disingenuous (1) 80:5 dismayed (1)	D-Malic (1) 92:23 docket (3) 18:19,22;165:18 document (11) 32:13;46:10;48:11; 111:7;145:4;183:12; 184:5;199:14,14; 210:8;214:16 documents (7)	65:13 doubt (2) 79:21;91:25 dove (1) 214:16 dovetails (1) 59:5 down (29) 26:13;27:11,15; 50:5;70:7;71:14;74:1, 1;77:15;78:21;

147:13:170:20:185:6, 15:198:14.19:202:22: Ε 221:9,9,10:231:25; eager (1) 45:2 eagle (1) 230:15 earlier (12) 105:11;140:3; 141:13:164:14; 179:12;183:3;192:10; 195:19;216:16; 217:10;231:20; 235:13 early (4) 21:5;31:9;46:17; 112:9 Earth (5) 12:5,6,8,17;101:6 ease (2)16:12:190:11 easier (5) 139:13;159:19; 108:6;125:5;228:16 163:14:201:19; 226:12 East (1) 29:11 eastern (3) 29:10,11;239:1 easy (5) 25:21;37:22;51:3; 115:2;159:22 eat (1) 62:9 eaters (1) 226:9 echo (1) 217:19 ecological (3) 68:25;172:22;195:4 economic (2) 68:19:72:6 economically (2) 139:20,22 economy (2) 68:21;71:18 eco-sustainable (1) 80:7;93:13;120:9; 173:6 216:14;232:2;235:9 ecosystem (3) 33:16;105:15;137:3 ecosystems (1) 37:20 13:3;33:10;65:16; edible (1) 31:1 120:18;134:5;155:25; educate (3) 158:6;161:20;184:12; 16:5;36:4;148:5 education (7) 14:19:26:1:44:16; 77:7;100:16;140:24; 166:9 educational (2) 14:17;16:8 effect (3)

93:17;120:22; 149:20 effective (5) 159:12,17;176:13; 200:19:220:3 effectively (9) 16:2;56:22;121:12, 14,16;124:6;148:16; 152:6,12 8:1 effects (4) 84:15,16;159:7; 167:1 efficacy (1) 88:24 efficiency (2) 16:13;216:24 effort (9) 16:6,8,10;25:25; 65:4;66:25;122:17; 171:20;200:23 efforts (12) 16:5;19:25;45:25; 46:16;64:4;92:2; 129:16:135:14:157:8: 199:24;201:12;216:2 egg (3) 29:13,13;59:6 eggs (1) 29:14 eh (1) 14:8 eight (3) 24:6;61:1;175:14 eighth (1) 4 22:25 either (11) 73:6:91:4:94:14; 105:7:112:22:146:14: 156:24;197:17;208:6, 18:226:11 elaborate (4) 122:7;184:20; 186:10;204:2 elaboration (1) 40:20 elders (1) 69:19 elevate (1) 189:6 elevated (3) 188:20;193:4;202:9 elevator (1) 204:7 elicits (2) 218:18,21 eligible (1) 172:20 eliminate (1) 84:25 eliminates (1) 15:25 eliminating (3) 84:13;131:15;

132:12 93:16,23:94:8; elimination (1) 107:12:108:13: 85:12 111:20,24;115:4; **Ellie** (12) 120:3,25;131:24; 14:10,12,12,15; 132:1;133:21;146:8; 16:17,18;17:21,25; 150:10,22;162:8; 18:11,15;19:3;49:5 171:2;220:23;221:15; ellipsis (1) 222:13:225:17; 235:24 else (11) ended (1) 6:25;26:6;144:20; 211:24 151:14:164:14; endocrine (1) 165:23:188:1:191:9: 84:15 199:23;205:3;234:15 end-user (1) email (1) 205:7 45:16 end-users (4) emails (1) 54:15;119:1; 129:18;201:22 139:9 embedded (1) enemies (1) 70:21 88:24 embraced (1) enforce (2) 169:15 96:4;226:22 emerged (1) enforced (1) 15:8 200:1 enforcement (14) emergency (2) 207:20,25 12:11;15:16;34:18; 53:18;65:3;108:2,16; emerging (1) 54:13 127:2,13;169:2; Emily (15) 173:6;183:23;201:11; 115:23;128:22; 232:25 135:18;141:24;142:2, enforcing (1) 4:146:2:183:2:215:6: 201:17 222:15,17,20;225:2,4, engage (3) 9:2;12:12;227:17 Emily's (1) engagement (1) 193:23 115:8 emphasis (2) engages (1) 166:15;173:3 213:8 employed (1) engaging (4) 220:1 9:5:12:15:22:5; employees (1) 52:11 198:24 engineer (2) empower (1) 68:3;99:8 engineered (2) 35:10 55:10;99:12 enabled (1) 5:23 engineering (1) enables (2) 68:2 England (1) 16:1;89:1 encourage (14) 132:2 20:20;21:11;31:25; enhance (1) 64:5:65:20:87:21; 124:7 122:5;143:13;145:22; enhanced (3) 189:14;190:18,19; 124:2;125:2;200:10 199:24;208:24 enjoy (2) 19:4;33:23 encouraged (2) 184:21;207:21 enough (10) 14:4;63:16;74:23; encourages (1) 75:21;132:5;134:5; 157:4 encouraging (2) 165:3;199:17;212:3; 56:15:201:18 233:9 end (30) ensure (20) 8:15:14:5:18:25: 14:18;47:10;61:23; 19:1;68:3;74:18;91:9;

119:18,23;124:23; 155:11:156:11: 167:24:183:13,17; 190:8:199:12:200:23: 208:13:215:18:217:6 ensures (2) 119:7;156:22 ensuring (2) 124:20;184:14 enter (2) 23:14;162:1 entering (2) 47:24:183:15 entertain (1) 42:1 entertaining (1) 234:2 entire (9) 6:23,25;7:8;47:11; 75:20;108:1;138:18; 153:6;223:18 entirely (2) 97:8;131:15 entities (3) 81:9;109:18;110:6 entity (1) 126:13 entry (1) 235:4 environment (18) 15:4,18:36:7:62:23, 25:69:22:71:17: 75:10:84:23:88:17: 100:17:143:6:147:3: 199:2;200:20;218:6; 221:2;226:17 environmental (2) 156:22;183:1 environmentally (1) 105:7 environments (2) 15:11:143:19 envision (1) 15:24 enzymes (1) 119:24 **EPA** (12) 54:3,4;155:6,8,11; 157:7;166:18,20; 226:14,22;227:11,16 **EPA's (2)** 85:10:167:11 **EPI** (1) 150:6 EQIP (7) 74:9,9;75:19,21; 77:23;78:10;141:14 equal (2) 173:3;190:5 equate (1) 80:8 equating (1) 84:18;85:6;107:11; 216:3

- Vol. 1 April 23, 2024

equation (2) 49:12:203:2 equipment (4) 89:8:143:18:216:6. 8 equipped (1) 170:3 equitable (1) 64:13 equity (20) 64:3,4,5,8,9;172:8; 188:14,15,24;189:7, 12.18.19.21.23.24; 190:1;191:3,10; 192:15 equivalency (5) 40:22;41:1,4,8;57:2 Eric (1) 163:20 err (1) 80:24 escalating (1) 84:11 esophagus (1) 80:13 especially (18) 21:21;28:20;96:6; 115:2;125:20;133:1; 143:4,5;144:9; 147:11;148:20;167:6; 168:9:178:3:186:11, 18:189:10:218:4 essential (10) 19:25;20:19;88:18; 89:4;119:6;125:11; 183:23;188:17; 223:12:224:15 essentially (1) 96:11 **EST** (1) 239:5 establish (2) 39:18;210:3 established (6) 31:10;124:15,22; 125:6,8;127:23 establishing (3) 40:5;82:9;125:3 estimate (3) 39:19;147:10; 213:20 Esu (1) 9:22 etc (3) 48:14;56:3;57:16 ethical (3) 81:12;136:12; 169:20 ethoxylates (7) 42:6,11,12,14,14; 84:12.14 EU (4) 17:23;56:14;

186:17:197:5 194:7;233:13 40:9:210:8 156:13:183:25 125:7;184:12; expressly (1) Eugene (1) Exactly (9) exists (1) 218:13 76:11,16;99:8; factoring (2) 196:21 225:21 141:18 210:14:211:2 Europe (1) 137:21,22;165:11; exit (1) extend (1) 186:12 186:20;203:21; 6:22 70:9 factors (2) evaluate (3) 213:18 expand (1) extended (1) 210:13:212:21 90:23;130:1;143:14 212:2 Faeh (17) example (18) 61:20 46:19;47:17;57:24; expanding (3) extends (1) 91:17;99:15,17,20; evaluated (2) 112:5;121:15;126:15; 55:23;124:19; 9:16 100:7,7;102:3,9,13, 39:3,20 evaluating (1) 148:9:150:8:179:15, 125:24 extension (1) 18;103:10,24;104:19, 163:4 21;180:1;184:7; expect (3) 102:21 23;105:10,23;106:16 evaluation (4) 189:19,23;208:4; 51:8;190:20;225:19 extensive (4) fail (2) 216:1;228:19;230:9 expedite (2) 28:5:199:10 39:3:164:25: 60:25:87:14: 208:18;214:5 examples (4) 114:2,3 119:20:171:21 fails (1) expeller (1) EVEA (1) 39:11;47:22;186:5; extensively (1) 124:5 234:21 108:8 failures (2) 189:4 172:18 Even (26) exceed (1) expense (1) 104:6;201:14 extent (1) 9:17;12:11;24:10; 216:14 fair (8) 108:21 202:18 26:2;29:17;36:12; expenses (2) 45:3;61:11;99:14; exceeds (1) extra (5) 51:21;56:16;71:6; 108:22 172:7;216:7 100:18;122:17; 125:9;132:5;166:8; 80:21;82:12;95:25; Excellent (5) experience (11) 136:17;175:19;216:8 211:20,20 105:5;109:19;138:5; 10:6;16:14;17:8; 48:16:56:4:62:1.22; extract (3) fairness (1) 140:11,14;144:6,20; 18:24:66:15 102:24;127:14; 46:4,5;71:4 110:17 148:6:158:19;161:21; faith (3) except (3) 142:17;149:3;171:14; extracted (3) 174:10;175:14;214:3; 6:25;24:18;197:12 178:6;228:15 108:8,19;120:19 107:14;196:6; 222:1 exchange (1) experienced (3) extraction (1) 206:20 evenly (1) 171:25 25:14;123:5;189:15 120:19 fall (8) extreme (2) 16:7;18:5;40:12; 201:18 excited (7) experiences (2) evens (1) 58:13;61:9;74:10, 45:2;104:9 24:18:202:21 146:1;156:7;172:4,6; 11,16;75:16;158:12 215:24 experiencing (1) extremely (4) 191:11 event (2) exciting (1) 194:5 144:12:162:18; falls (1) 201:14:209:18 9:5 experimented (1) 188:11:224:12 113:19 excluded (23) events (2) 89:22 eve (7) familiar (1) 15:9:175:10 54:17.25:55:4.12: expert (2) 7:14;10:21;65:18; 71:13 ever-growing (1) 58:23:59:12,18,21; 58:9:177:15 69:2;98:24;167:2; families (3) 193:19 14:23 60:12;92:7,11,16; expertise (6) 34:1;198:25;199:1 20:16:56:17:94:1; ever-increasing (1) 98:7.13.13.15.24; family (6) F 99:2;119:23;120:5,9; 22:24;33:17:60:25; 165:3;184:13;197:19 15:11 everybody (20) 121:8.17 62:15:74:1:106:6 experts (3) 55:16:98:20:177:21 fan (1) 8:12:10:8:45:23; excuse (2) face (3) 67:21;76:7;78:7; 148:10:166:4 explained (1) 177:20;188:22; 200:9 79:10,11:87:9; execute (2) 184:7 216:23 fancy (1) explains (1) 104:11;114:10,11; 17:13;48:15 facets (1) 6:10 executed (2) 153:4 fantastic (1) 137:5;157:17,23; 221:3 explanation (3) 49:10;77:25 199:23;204:17; facilitate (1) 177:8 224:23;232:15;238:2 execution (1) 126:14,15;145:3 9:12 far (18) exploration (1) 27:16,18;29:11; everybody's (1) 18:18 facilities (7) 114:10 50:1 **Executive** (4) 82:12;89:10; 66:13;68:25;82:14; 14:16;53:13;79:16; explore (1) everyone (14) 150:20;151:1;152:1; 89:11;101:9,11; 7:1;8:24;9:14,15; 83:19 191:10 158:15:216:15 104:8;106:2;109:19; exempt (1) 74:16;132:9;135:20; explored (3) facility (4) 111:19;130:7;135:7; 52:18,22;53:2 62:11:150:14: 140:11:147:14: 142:3;147:15;148:5; 21:7 190:3,8;199:19; exemption (1) export (2) 151:6;236:22 205:13 202:24 62:4;108:21 facing (2) Farge (1) 133:24 everywhere (2) exercises (1) 79:17 exposed (1) 70:1;217:9 70:16;167:15 99:21 farm (59) 191:19 fact (16) evidence (7) exist (4) exposure (3) 23:5;24:2;25:21; 19:21;22:14,20,23, 195:24;199:4; 155:23;157:2; 196:21;202:25; 27:20,24;29:12; 24;23:4,7;24:2,4,9,15, 226:1,11;227:4; 201:5,23 226:3 46:16:56:13:61:14; 17;25:18;33:3,11,17, 229:12,20 existential (1) exposures (1) 106:4:152:8:162:5: 20,24;35:2;36:1;37:2; evolve (1) 84:4 106:6 196:2;209:15;216:17; 58:7;61:2,3,4,9; 125:12 existing (5) expressed (4) 220:8 62:17:63:1:73:24; exact (2) 44:22;119:7;184:6; 82:14;142:23; factor (3) 74:1,3;82:1;100:8,23;

Burke Court Reporting & Transcription (973) 692-0660

- Vol. 1 April 23, 2024

- Vol. 1 April 23, 2024

Spring 2024 Meeting		[April 23, 2024
101.1.102.15 22.	126.6.142.5.151.14	121.24.124.17.147.6.	90.2.216.25	226.21
101:1;103:15,23;	136:6;143:5;151:14,	131:24;134:17;147:6;	89:2;216:25	226:21
105:17;106:7;114:23;	19;153:2;154:1;	162:8;163:11;164:10	field (23)	fine (3)
116:16;172:11;174:1,	161:12;162:16;	feedstocks (19)	20:20;23:19;25:6;	52:8;133:6;175:8
8,10,11,14,18,22;	164:19;166:11;167:1,	66:20;131:2,18;	41:4,16;44:24;61:24;	finish (6)
179:22;195:4,12;	7;183:20;184:9;	135:4,7;160:25;	95:18;100:12;107:7,	8:10;21:23;53:19;
198:10,23;205:23;	195:20,22;196:15	161:4,8,10,16,18;	10;108:13;138:1;	111:14;140:21;205:6
231:23;234:21,22;	farm's (1)	162:18;163:12;164:2,	170:6;199:13;200:10;	finished (5)
237:13	22:18	9,20;173:11,13,14	206:3;216:3,4,20;	90:13;91:3;120:21;
farmed (1)	fashion (1)	feel (32)	217:7;218:18;233:20	133:21;164:2
236:18	127:7	20:23;21:24;27:9,	fields (3)	firm (1)
farmer (33)	Faso (1)	12;28:5;41:20;69:11;	33:14;218:19;219:1	123:15
19:20;24:14;26:9;	62:2	74:13;77:5,8,14;	fifth (1)	first (32)
33:7;43:16,18;44:3,7,	fast (2)	107:16,17;108:16;	198:9	14:11;21:6;39:16,
18;45:1;60:22,23;	134:4;233:8	109:3;113:2;117:13;	fight (2)	25;42:5;43:16;44:6;
61:11,12,15;64:2;	fatigue (1)	133:15;140:22;	128:12;158:21	54:25;64:3;74:24;
73:6,25;74:7;77:25;	15:9	160:10,25;162:15;		78:3;97:11;102:5;
			fighting (1)	
115:14;136:16;	fatty (1)	164:18;165:3;168:25;	71:9	109:16;116:11;
178:24;179:7,15;	155:8	174:8,19;185:24;	figure (5)	129:13,21;136:2;
181:12,18;198:9;	fault (1)	194:9;209:10,11;	25:6;61:3;118:13;	142:6;158:5;171:15;
208:25;212:22;	140:18	215:3	177:20;193:12	179:17,17;180:17;
231:19;236:8,12	favor (1)	feeling (2)	figured (1)	183:11;189:6;197:6;
farmers (83)	173:11	32:19;209:9	112:18	199:2;200:17;208:4,
19:22;21:2,19;	FDA (13)	feelings (1)	figuring (1)	5;228:16
22:22;23:10;24:2,19;	112:11,12,22,22;	133:14	61:24	firsthand (2)
25:4;26:19;28:2,5;	226:18,19,20,21,25;	feels (2)	filed (1)	21:1;158:20
33:5,5;34:19,20;	229:14,15,17,21	139:3;212:25	142:24	Firstly (1)
43:14,23;45:4,4;	FDA's (1)	fees (3)	fill (4)	21:9
61:17;63:25;64:12;	227:3	81:5;114:2;169:17	42:4;55:2;161:7,10	fish (17)
65:25,25;68:4;72:2,3,	fear (1)	Feldman (13)	filled (1)	155:9,14,17,21,21,
20;73:1;74:16,23;	196:6	79:7,13;81:18;	190:18	23,25;156:2,5,9,11,
75:9;81:12,23;82:6,8,	feasible (1)	83:17,19,19;86:1,3,9,	film (3)	14,15,17,24;157:5,6
10,11,16,23,24;104:5,	161:25	12,19,23;87:3	134:4;149:21;	fisheries (1)
10;107:9;115:3;	feature (1)	fellow (3)	211:25	156:24
116:19;117:11,15,23;	6:14	105:5;236:2,7	final (9)	fishing (1)
136:22;140:22;	features (1)	felt (1)	15:16;161:21;	156:9
160:21,25;161:2;	6:10	117:16	162:12;189:2;205:9;	fishmeal (1)
162:20;166:6,10;	February (1)	fenbendazole (2)	225:12,15;234:14;	156:17
170:5;179:12;181:14;	189:1	160:8;207:18	238:2	fit (1)
188:18,22,23;194:12,	fecal (5)	fermentation (4)	Finally (13)	42:25
12,12;195:6,7,10,23;	31:12,18,23;	55:8,9,12;98:23	16:11;44:25;89:6;	Fitzgerald (7)
199:21,22;206:18;	207:21,21	ferric (4)	107:25;108:2;130:24;	14:11;19:6;30:6;
217:20;219:25;220:1;	feces (1)	223:4;224:4,5,7	131:8;143:16;162:19;	38:11;73:12;79:3;
228:10,12;232:10,14,	85:14	fertility (7)	173:8;188:20;200:1;	238:4
16,17,21	Federal (1)	167:3,10;207:17;	229:9	five (29)
farmer's (1)	9:10	209:1;216:12;237:8,	finance (3)	13:24;24:14,14;
116:20	federally (1)	10	25:15;216:18,19	54:10;68:7;74:2;
farming (35)	154:19	fertilization (1)	financial (3)	114:6;183:21;193:17,
23:24;24:3,6;25:22;	fee (3)	224:19	25:9,9,13	18;199:16;209:9;
26:2,5;62:22;73:25;	168:10,12,13	fertilizer (5)	financially (2)	212:13,14,17,21,24;
76:3;100:17;101:2,3,	feed (11)	30:21;31:3;63:9;	133:5;151:25	213:4,5,14,15,16,16;
6,7,12;105:4;106:4;	20:19;29:14;42:19;	115:11:216:16	financing (2)	214:2,4,5;226:22;
116:14;117:17;118:4;	61:23;62:12;107:4,	fertilizers (2)	215:15;218:3	231:21,21
148:21;180:18;183:9;	24;114:9;202:18;	36:5;54:2	find (14)	fix (4)
184:4;198:11;200:20;	208:19;237:20	few (22)	5:25;7:14,18;15:20;	58:1;69:25;70:2;
205:13;215:15,21;	feedback (5)	6:22;20:15;27:8;	19:6;26:22;29:21;	137:6
217:5;219:13;231:20;	78:24;87:17;	44:9;47:21;64:20;	37:9;91:25;117:14,	fixed (1)
235:8,14;236:8	171:23;176:14;215:1	68:5;70:19;72:11;	14;159:20;221:1;	168:13
farmland (1)	feeding (2)	129:5;133:4;137:25;	225:11	fixes (1)
167:10	153:2;236:21	141:16;166:15;182:5;	finding (2)	7:5
farms (26)	feeds (1)	186:6;189:3;191:19;	29:17;222:10	flag (2)
21:12;24:12;25:17;	33:25	207:9;216:1;234:24;	findings (2)	14:5;229:11
33:13;36:12;37:19;	feedstock (8)	236:17	64:6;227:3	flagged (1)
63:12;82:3;101:2;	65:11;130:20;	fewer (2)	finds (1)	209:21
05.12,02.5,101.2,	05.11,150.20,			207.21

Burke Court Reporting & Transcription (973) 692-0660

- Vol. 1 April 23, 2024

Spring 2024 Meeting				April 23, 2024
flexibility (1)	6:9	58:18	226:4;229:9,21;235:7	45:3;120:22
173:15	food (89)			
		forms (1)	fraudulent (4)	functionality (2)
flies (3)	12:9;30:25;31:15,	92:14	58:10;108:14;	8:4;119:6
72:9,9,10	25;32:4,8,8,10,11;	formulas (1)	232:7;233:11	functionally (1)
flip (1)	33:25;36:8,21;37:19;	95:24	free (3)	97:7
128:14	50:14;62:8,16;66:17,	formulation (1)	185:24;215:3;226:6	fundal (1)
floating (1)	18,19;68:8;71:14;	119:24	freeze (2)	223:21
192:23	76:6;82:1,12;87:23;	forth (4)	95:4,4	funding (5)
flood (1)	93:22;95:1,2;101:13;	182:10;201:14;	frequent (1)	16:5;74:12;75:19;
199:4	105:8;113:12,15,19;	218:3,5	216:7	139:5;169:11
floral (2)	115:17;118:25;119:1;	fortunate (6)	frequently (2)	fungal (1)
142:11;183:6	120:7;132:14;133:2;	26:1,4;27:16;29:5,	121:16;218:18	223:15
Florida (1)	136:14;139:23;142:5;	10;49:7	fresh (11)	fungicide (1)
25:24	143:17;147:12,18,24;	Fortunately (1)	89:7;142:5,11;	224:11
flow (4)	148:1,15,21,23;150:3;	156:23	143:9,18,25;183:1,4,	further (14)
47:22;51:12;	151:8,10;154:15;	forum (2)	5;184:22;223:6	15:23;22:1;24:23;
215:16;220:15	159:25;161:22;162:6;	100:5;233:18	friendly (2)	48:8;52:18,23;65:20;
flowers (1)	163:11,14;164:9;	forward (20)	174:11,12	70:23;71:1;99:11;
142:13	166:8,10;167:6;	12:18;32:9,10;38:1;	friends (2)	148:17;190:12;
flu (1)	172:24;193:21;195:4,	44:23;53:21;54:7;	29:16;178:12	220:17,17
110:18	6,8,13;199:6;202:19;	55:17;58:24;59:2,4;	front (9)	Furthermore (2)
fluctuations (1)	204:4;226:4,5,7,9,10,	60:4,10;64:10;68:25;	73:13;92:12;94:23;	64:17;199:24
235:7	12,13;227:2,5,6,6,7;	130:10;186:6;187:4;	99:9;131:17,18,24;	future (17)
FM (1)	228:2,3,7,9;231:3	193:22;216:22	152:25;201:12	16:9,16;17:11;35:2;
191:17	foods (5)	foster (1)	fronts (1)	37:16;41:15;53:20;
focus (16)	80:22;85:1;96:11;	171:24	163:3	68:16;69:2;83:24;
46:7;52:19;65:19;	119:7;226:2	fought (2)	froze (1)	123:8;141:6;143:13;
66:9;68:19;81:25;	foodware (2)	71:7;139:1	95:5	169:10;173:17;174:7;
124:18;158:11;160:1;	147:5,19	found (6)	frozen (1)	215:18
174:19;182:4;183:7;	footprint (1)	23:22;85:13;143:3;	230:23	~~~~
190:11;205:11;223:2;	172:7	155:9;215:19;226:7	fruit (15)	G
233:7	forage (1)	foundation (4)	07.12 15.00.11 10	
			87:13,15;88:11,19,	
focused (3)	42:19	37:23;44:17;46:1;	22;89:9,11;90:20;	Gail (1)
focused (3) 47:20;144:17;	42:19 force (1)	37:23;44:17;46:1; 88:25	22;89:9,11;90:20; 91:3,5;132:9,10;	210:19
focused (3) 47:20;144:17; 177:16	42:19 force (1) 88:2	37:23;44:17;46:1; 88:25 founder (1)	22;89:9,11;90:20; 91:3,5;132:9,10; 133:14;142:13;183:6	210:19 gain (2)
focused (3) 47:20;144:17; 177:16 focusing (4)	42:19 force (1) 88:2 forcing (1)	37:23;44:17;46:1; 88:25 founder (1) 135:22	22;89:9,11;90:20; 91:3,5;132:9,10; 133:14;142:13;183:6 fruits (2)	210:19 gain (2) 59:19;68:19
focused (3) 47:20;144:17; 177:16 focusing (4) 107:3;142:21;	42:19 force (1) 88:2 forcing (1) 144:19	37:23;44:17;46:1; 88:25 founder (1) 135:22 four (8)	22;89:9,11;90:20; 91:3,5;132:9,10; 133:14;142:13;183:6 fruits (2) 230:16,16	210:19 gain (2) 59:19;68:19 gaining (1)
focused (3) 47:20;144:17; 177:16 focusing (4) 107:3;142:21; 192:19;233:6	42:19 force (1) 88:2 forcing (1) 144:19 forefront (1)	37:23;44:17;46:1; 88:25 founder (1) 135:22 four (8) 34:6;84:25;146:20;	22;89:9,11;90:20; 91:3,5;132:9,10; 133:14;142:13;183:6 fruits (2) 230:16,16 frustrated (1)	210:19 gain (2) 59:19;68:19 gaining (1) 68:10
focused (3) 47:20;144:17; 177:16 focusing (4) 107:3;142:21; 192:19;233:6 folks (13)	42:19 force (1) 88:2 forcing (1) 144:19 forefront (1) 85:15	37:23;44:17;46:1; 88:25 founder (1) 135:22 four (8) 34:6;84:25;146:20; 172:6;175:14;179:17;	22;89:9,11;90:20; 91:3,5;132:9,10; 133:14;142:13;183:6 fruits (2) 230:16,16 frustrated (1) 201:21	210:19 gain (2) 59:19;68:19 gaining (1) 68:10 gallery (1)
focused (3) 47:20;144:17; 177:16 focusing (4) 107:3;142:21; 192:19;233:6 folks (13) 5:3;73:11;77:6,6;	42:19 force (1) 88:2 forcing (1) 144:19 forefront (1) 85:15 foreign (3)	37:23;44:17;46:1; 88:25 founder (1) 135:22 four (8) 34:6;84:25;146:20; 172:6;175:14;179:17; 224:6,11	22;89:9,11;90:20; 91:3,5;132:9,10; 133:14;142:13;183:6 fruits (2) 230:16,16 frustrated (1) 201:21 frustrating (4)	210:19 gain (2) 59:19;68:19 gaining (1) 68:10 gallery (1) 6:20
focused (3) 47:20;144:17; 177:16 focusing (4) 107:3;142:21; 192:19;233:6 folks (13) 5:3;73:11;77:6,6; 96:11,15;97:4,18;	42:19 force (1) 88:2 forcing (1) 144:19 forefront (1) 85:15 foreign (3) 199:23;217:8,9	37:23;44:17;46:1; 88:25 founder (1) 135:22 four (8) 34:6;84:25;146:20; 172:6;175:14;179:17; 224:6,11 fourth (5)	22;89:9,11;90:20; 91:3,5;132:9,10; 133:14;142:13;183:6 fruits (2) 230:16,16 frustrated (1) 201:21 frustrating (4) 115:8;116:5;118:8;	210:19 gain (2) 59:19;68:19 gaining (1) 68:10 gallery (1) 6:20 game (7)
focused (3) 47:20;144:17; 177:16 focusing (4) 107:3;142:21; 192:19;233:6 folks (13) 5:3;73:11;77:6,6; 96:11,15;97:4,18; 98:14;118:14;154:2;	42:19 force (1) 88:2 forcing (1) 144:19 forefront (1) 85:15 foreign (3) 199:23;217:8,9 foreseeable (1)	37:23;44:17;46:1; 88:25 founder (1) 135:22 four (8) 34:6;84:25;146:20; 172:6;175:14;179:17; 224:6,11 fourth (5) 22:23;60:22,23;	22;89:9,11;90:20; 91:3,5;132:9,10; 133:14;142:13;183:6 fruits (2) 230:16,16 frustrated (1) 201:21 frustrating (4) 115:8;116:5;118:8; 139:14	210:19 gain (2) 59:19;68:19 gaining (1) 68:10 gallery (1) 6:20 game (7) 68:20;70:14;71:6,
focused (3) 47:20;144:17; 177:16 focusing (4) 107:3;142:21; 192:19;233:6 folks (13) 5:3;73:11;77:6,6; 96:11,15;97:4,18; 98:14;118:14;154:2; 199:1;233:9	42:19 force (1) 88:2 forcing (1) 144:19 forefront (1) 85:15 foreign (3) 199:23;217:8,9 foreseeable (1) 16:16	37:23;44:17;46:1; 88:25 founder (1) 135:22 four (8) 34:6;84:25;146:20; 172:6;175:14;179:17; 224:6,11 fourth (5) 22:23;60:22,23; 73:25;179:23	22;89:9,11;90:20; 91:3,5;132:9,10; 133:14;142:13;183:6 fruits (2) 230:16,16 frustrated (1) 201:21 frustrating (4) 115:8;116:5;118:8;	210:19 gain (2) 59:19;68:19 gaining (1) 68:10 gallery (1) 6:20 game (7)
focused (3) 47:20;144:17; 177:16 focusing (4) 107:3;142:21; 192:19;233:6 folks (13) 5:3;73:11;77:6,6; 96:11,15;97:4,18; 98:14;118:14;154:2; 199:1;233:9 folks' (1)	42:19 force (1) 88:2 forcing (1) 144:19 forefront (1) 85:15 foreign (3) 199:23;217:8,9 foreseeable (1) 16:16 forests (1)	37:23;44:17;46:1; 88:25 founder (1) 135:22 four (8) 34:6;84:25;146:20; 172:6;175:14;179:17; 224:6,11 fourth (5) 22:23;60:22,23; 73:25;179:23 fragmented (3)	22;89:9,11;90:20; 91:3,5;132:9,10; 133:14;142:13;183:6 fruits (2) 230:16,16 frustrated (1) 201:21 frustrating (4) 115:8;116:5;118:8; 139:14 FSA (1) 138:12	210:19 gain (2) 59:19;68:19 gaining (1) 68:10 gallery (1) 6:20 game (7) 68:20;70:14;71:6, 12;72:24;108:13; 175:9
focused (3) 47:20;144:17; 177:16 focusing (4) 107:3;142:21; 192:19;233:6 folks (13) 5:3;73:11;77:6,6; 96:11,15;97:4,18; 98:14;118:14;154:2; 199:1;233:9 folks' (1) 96:25	42:19 force (1) 88:2 forcing (1) 144:19 forefront (1) 85:15 foreign (3) 199:23;217:8,9 foreseeable (1) 16:16 forests (1) 33:14	37:23;44:17;46:1; 88:25 founder (1) 135:22 four (8) 34:6;84:25;146:20; 172:6;175:14;179:17; 224:6,11 fourth (5) 22:23;60:22,23; 73:25;179:23	22;89:9,11;90:20; 91:3,5;132:9,10; 133:14;142:13;183:6 fruits (2) 230:16,16 frustrated (1) 201:21 frustrating (4) 115:8;116:5;118:8; 139:14 FSA (1) 138:12 fuel (2)	210:19 gain (2) 59:19;68:19 gaining (1) 68:10 gallery (1) 6:20 game (7) 68:20;70:14;71:6, 12;72:24;108:13;
focused (3) 47:20;144:17; 177:16 focusing (4) 107:3;142:21; 192:19;233:6 folks (13) 5:3;73:11;77:6,6; 96:11,15;97:4,18; 98:14;118:14;154:2; 199:1;233:9 folks' (1) 96:25 follow (8)	42:19 force (1) 88:2 forcing (1) 144:19 forefront (1) 85:15 foreign (3) 199:23;217:8,9 foreseeable (1) 16:16 forests (1) 33:14 forever (3)	37:23;44:17;46:1; 88:25 founder (1) 135:22 four (8) 34:6;84:25;146:20; 172:6;175:14;179:17; 224:6,11 fourth (5) 22:23;60:22,23; 73:25;179:23 fragmented (3)	22;89:9,11;90:20; 91:3,5;132:9,10; 133:14;142:13;183:6 fruits (2) 230:16,16 frustrated (1) 201:21 frustrating (4) 115:8;116:5;118:8; 139:14 FSA (1) 138:12 fuel (2) 205:3;216:5	210:19 gain (2) 59:19;68:19 gaining (1) 68:10 gallery (1) 6:20 game (7) 68:20;70:14;71:6, 12;72:24;108:13; 175:9
focused (3) 47:20;144:17; 177:16 focusing (4) 107:3;142:21; 192:19;233:6 folks (13) 5:3;73:11;77:6,6; 96:11,15;97:4,18; 98:14;118:14;154:2; 199:1;233:9 folks' (1) 96:25 follow (8) 44:12;71:11;75:14;	42:19 force (1) 88:2 forcing (1) 144:19 forefront (1) 85:15 foreign (3) 199:23;217:8,9 foreseeable (1) 16:16 forests (1) 33:14 forever (3) 167:2;193:18;229:3	37:23;44:17;46:1; 88:25 founder (1) 135:22 four (8) 34:6;84:25;146:20; 172:6;175:14;179:17; 224:6,11 fourth (5) 22:23;60:22,23; 73:25;179:23 fragmented (3) 29:7;204:3;236:14 framework (2) 124:13;199:7	22;89:9,11;90:20; 91:3,5;132:9,10; 133:14;142:13;183:6 fruits (2) 230:16,16 frustrated (1) 201:21 frustrating (4) 115:8;116:5;118:8; 139:14 FSA (1) 138:12 fuel (2) 205:3;216:5 full (12)	210:19 gain (2) 59:19;68:19 gaining (1) 68:10 gallery (1) 6:20 game (7) 68:20;70:14;71:6, 12;72:24;108:13; 175:9 gap (4)
focused (3) 47:20;144:17; 177:16 focusing (4) 107:3;142:21; 192:19;233:6 folks (13) 5:3;73:11;77:6,6; 96:11,15;97:4,18; 98:14;118:14;154:2; 199:1;233:9 folks' (1) 96:25 follow (8) 44:12;71:11;75:14; 78:16,22;152:18;	42:19 force (1) 88:2 forcing (1) 144:19 forefront (1) 85:15 foreign (3) 199:23;217:8,9 foreseeable (1) 16:16 forests (1) 33:14 forever (3) 167:2;193:18;229:3 forget (11)	37:23;44:17;46:1; 88:25 founder (1) 135:22 four (8) 34:6;84:25;146:20; 172:6;175:14;179:17; 224:6,11 fourth (5) 22:23;60:22,23; 73:25;179:23 fragmented (3) 29:7;204:3;236:14 framework (2) 124:13;199:7 Francisco (3)	22;89:9,11;90:20; 91:3,5;132:9,10; 133:14;142:13;183:6 fruits (2) 230:16,16 frustrated (1) 201:21 frustrating (4) 115:8;116:5;118:8; 139:14 FSA (1) 138:12 fuel (2) 205:3;216:5 full (12) 6:22;12:21;18:18,	210:19 gain (2) 59:19;68:19 gaining (1) 68:10 gallery (1) 6:20 game (7) 68:20;70:14;71:6, 12;72:24;108:13; 175:9 gap (4) 17:16;124:5;184:6;
focused (3) 47:20;144:17; 177:16 focusing (4) 107:3;142:21; 192:19;233:6 folks (13) 5:3;73:11;77:6,6; 96:11,15;97:4,18; 98:14;118:14;154:2; 199:1;233:9 folks' (1) 96:25 follow (8) 44:12;71:11;75:14;	42:19 force (1) 88:2 forcing (1) 144:19 forefront (1) 85:15 foreign (3) 199:23;217:8,9 foreseeable (1) 16:16 forests (1) 33:14 forever (3) 167:2;193:18;229:3	37:23;44:17;46:1; 88:25 founder (1) 135:22 four (8) 34:6;84:25;146:20; 172:6;175:14;179:17; 224:6,11 fourth (5) 22:23;60:22,23; 73:25;179:23 fragmented (3) 29:7;204:3;236:14 framework (2) 124:13;199:7	22;89:9,11;90:20; 91:3,5;132:9,10; 133:14;142:13;183:6 fruits (2) 230:16,16 frustrated (1) 201:21 frustrating (4) 115:8;116:5;118:8; 139:14 FSA (1) 138:12 fuel (2) 205:3;216:5 full (12)	210:19 gain (2) 59:19;68:19 gaining (1) 68:10 gallery (1) 6:20 game (7) 68:20;70:14;71:6, 12;72:24;108:13; 175:9 gap (4) 17:16;124:5;184:6; 218:4
focused (3) 47:20;144:17; 177:16 focusing (4) 107:3;142:21; 192:19;233:6 folks (13) 5:3;73:11;77:6,6; 96:11,15;97:4,18; 98:14;118:14;154:2; 199:1;233:9 folks' (1) 96:25 follow (8) 44:12;71:11;75:14; 78:16,22;152:18;	42:19 force (1) 88:2 forcing (1) 144:19 forefront (1) 85:15 foreign (3) 199:23;217:8,9 foreseeable (1) 16:16 forests (1) 33:14 forever (3) 167:2;193:18;229:3 forget (11)	37:23;44:17;46:1; 88:25 founder (1) 135:22 four (8) 34:6;84:25;146:20; 172:6;175:14;179:17; 224:6,11 fourth (5) 22:23;60:22,23; 73:25;179:23 fragmented (3) 29:7;204:3;236:14 framework (2) 124:13;199:7 Francisco (3)	22;89:9,11;90:20; 91:3,5;132:9,10; 133:14;142:13;183:6 fruits (2) 230:16,16 frustrated (1) 201:21 frustrating (4) 115:8;116:5;118:8; 139:14 FSA (1) 138:12 fuel (2) 205:3;216:5 full (12) 6:22;12:21;18:18,	210:19 gain (2) 59:19;68:19 gaining (1) 68:10 gallery (1) 6:20 game (7) 68:20;70:14;71:6, 12;72:24;108:13; 175:9 gap (4) 17:16;124:5;184:6; 218:4 gaps (1)
focused (3) 47:20;144:17; 177:16 focusing (4) 107:3;142:21; 192:19;233:6 folks (13) 5:3;73:11;77:6,6; 96:11,15;97:4,18; 98:14;118:14;154:2; 199:1;233:9 folks' (1) 96:25 follow (8) 44:12;71:11;75:14; 78:16,22;152:18; 185:5;205:6	42:19 force (1) 88:2 forcing (1) 144:19 forefront (1) 85:15 foreign (3) 199:23;217:8,9 foreseeable (1) 16:16 forests (1) 33:14 forever (3) 167:2;193:18;229:3 forget (11) 19:14;22:11;38:16;	37:23;44:17;46:1; 88:25 founder (1) 135:22 four (8) 34:6;84:25;146:20; 172:6;175:14;179:17; 224:6,11 fourth (5) 22:23;60:22,23; 73:25;179:23 fragmented (3) 29:7;204:3;236:14 framework (2) 124:13;199:7 Francisco (3) 147:2,7;148:22	22;89:9,11;90:20; 91:3,5;132:9,10; 133:14;142:13;183:6 fruits (2) 230:16,16 frustrated (1) 201:21 frustrating (4) 115:8;116:5;118:8; 139:14 FSA (1) 138:12 fuel (2) 205:3;216:5 full (12) 6:22;12:21;18:18, 18;59:21;93:22;	210:19 gain (2) 59:19;68:19 gaining (1) 68:10 gallery (1) 6:20 game (7) 68:20;70:14;71:6, 12;72:24;108:13; 175:9 gap (4) 17:16;124:5;184:6; 218:4 gaps (1) 55:2
focused (3) 47:20;144:17; 177:16 focusing (4) 107:3;142:21; 192:19;233:6 folks (13) 5:3;73:11;77:6,6; 96:11,15;97:4,18; 98:14;118:14;154:2; 199:1;233:9 folks' (1) 96:25 follow (8) 44:12;71:11;75:14; 78:16,22;152:18; 185:5;205:6 followed (1)	42:19 force (1) 88:2 forcing (1) 144:19 forefront (1) 85:15 foreign (3) 199:23;217:8,9 foreseeable (1) 16:16 forests (1) 33:14 forever (3) 167:2;193:18;229:3 forget (11) 19:14;22:11;38:16; 43:10;45:19;53:10;	37:23;44:17;46:1; 88:25 founder (1) 135:22 four (8) 34:6;84:25;146:20; 172:6;175:14;179:17; 224:6,11 fourth (5) 22:23;60:22,23; 73:25;179:23 fragmented (3) 29:7;204:3;236:14 framework (2) 124:13;199:7 Francisco (3) 147:2,7;148:22 frank (1)	22;89:9,11;90:20; 91:3,5;132:9,10; 133:14;142:13;183:6 fruits (2) 230:16,16 frustrated (1) 201:21 frustrating (4) 115:8;116:5;118:8; 139:14 FSA (1) 138:12 fuel (2) 205:3;216:5 full (12) 6:22;12:21;18:18, 18;59:21;93:22; 97:16;98:19;153:20;	210:19 gain (2) 59:19;68:19 gaining (1) 68:10 gallery (1) 6:20 game (7) 68:20;70:14;71:6, 12;72:24;108:13; 175:9 gap (4) 17:16;124:5;184:6; 218:4 gaps (1) 55:2 garbage (2)
focused (3) 47:20;144:17; 177:16 focusing (4) 107:3;142:21; 192:19;233:6 folks (13) 5:3;73:11;77:6,6; 96:11,15;97:4,18; 98:14;118:14;154:2; 199:1;233:9 folks' (1) 96:25 follow (8) 44:12;71:11;75:14; 78:16,22;152:18; 185:5;205:6 followed (1) 182:21	42:19 force (1) 88:2 forcing (1) 144:19 forefront (1) 85:15 foreign (3) 199:23;217:8,9 foreseeable (1) 16:16 forests (1) 33:14 forever (3) 167:2;193:18;229:3 forget (11) 19:14;22:11;38:16; 43:10;45:19;53:10; 60:19;63:21;81:18;	37:23;44:17;46:1; 88:25 founder (1) 135:22 four (8) 34:6;84:25;146:20; 172:6;175:14;179:17; 224:6,11 fourth (5) 22:23;60:22,23; 73:25;179:23 fragmented (3) 29:7;204:3;236:14 framework (2) 124:13;199:7 Francisco (3) 147:2,7;148:22 frank (1) 60:3	22;89:9,11;90:20; 91:3,5;132:9,10; 133:14;142:13;183:6 fruits (2) 230:16,16 frustrated (1) 201:21 frustrating (4) 115:8;116:5;118:8; 139:14 FSA (1) 138:12 fuel (2) 205:3;216:5 full (12) 6:22;12:21;18:18, 18;59:21;93:22; 97:16;98:19;153:20; 163:22;177:2;227:14	210:19 gain (2) 59:19;68:19 gaining (1) 68:10 gallery (1) 6:20 game (7) 68:20;70:14;71:6, 12;72:24;108:13; 175:9 gap (4) 17:16;124:5;184:6; 218:4 gaps (1) 55:2 garbage (2) 66:13;132:13
focused (3) 47:20;144:17; 177:16 focusing (4) 107:3;142:21; 192:19;233:6 folks (13) 5:3;73:11;77:6,6; 96:11,15;97:4,18; 98:14;118:14;154:2; 199:1;233:9 folks' (1) 96:25 follow (8) 44:12;71:11;75:14; 78:16,22;152:18; 185:5;205:6 followed (1) 182:21 following (10)	42:19 force (1) 88:2 forcing (1) 144:19 forefront (1) 85:15 foreign (3) 199:23;217:8,9 foreseeable (1) 16:16 forests (1) 33:14 forever (3) 167:2;193:18;229:3 forget (11) 19:14;22:11;38:16; 43:10;45:19;53:10; 60:19;63:21;81:18; 87:6;235:12	37:23;44:17;46:1; 88:25 founder (1) 135:22 four (8) 34:6;84:25;146:20; 172:6;175:14;179:17; 224:6,11 fourth (5) 22:23;60:22,23; 73:25;179:23 fragmented (3) 29:7;204:3;236:14 framework (2) 124:13;199:7 Francisco (3) 147:2,7;148:22 frank (1) 60:3 Franklin (6)	22;89:9,11;90:20; 91:3,5;132:9,10; 133:14;142:13;183:6 fruits (2) 230:16,16 frustrated (1) 201:21 frustrating (4) 115:8;116:5;118:8; 139:14 FSA (1) 138:12 fuel (2) 205:3;216:5 full (12) 6:22;12:21;18:18, 18;59:21;93:22; 97:16;98:19;153:20; 163:22;177:2;227:14 fully (11)	210:19 gain (2) 59:19;68:19 gaining (1) 68:10 gallery (1) 6:20 game (7) 68:20;70:14;71:6, 12;72:24;108:13; 175:9 gap (4) 17:16;124:5;184:6; 218:4 gaps (1) 55:2 garbage (2) 66:13;132:13 gardeners (4)
focused (3) 47:20;144:17; 177:16 focusing (4) 107:3;142:21; 192:19;233:6 folks (13) 5:3;73:11;77:6,6; 96:11,15;97:4,18; 98:14;118:14;154:2; 199:1;233:9 folks' (1) 96:25 follow (8) 44:12;71:11;75:14; 78:16,22;152:18; 185:5;205:6 followed (1) 182:21 following (10) 15:3;31:11;76:25;	42:19 force (1) 88:2 forcing (1) 144:19 forefront (1) 85:15 foreign (3) 199:23;217:8,9 foreseeable (1) 16:16 forests (1) 33:14 forever (3) 167:2;193:18;229:3 forget (11) 19:14;22:11;38:16; 43:10;45:19;53:10; 60:19;63:21;81:18; 87:6;235:12 forgot (2)	37:23;44:17;46:1; 88:25 founder (1) 135:22 four (8) 34:6;84:25;146:20; 172:6;175:14;179:17; 224:6,11 fourth (5) 22:23;60:22,23; 73:25;179:23 fragmented (3) 29:7;204:3;236:14 framework (2) 124:13;199:7 Francisco (3) 147:2,7;148:22 frank (1) 60:3 Franklin (6) 11:14,15;187:18;	22;89:9,11;90:20; 91:3,5;132:9,10; 133:14;142:13;183:6 fruits (2) 230:16,16 frustrated (1) 201:21 frustrating (4) 115:8;116:5;118:8; 139:14 FSA (1) 138:12 fuel (2) 205:3;216:5 full (12) 6:22;12:21;18:18, 18;59:21;93:22; 97:16;98:19;153:20; 163:22;177:2;227:14 fully (11) 15:13;16:21;17:13;	210:19 gain (2) 59:19;68:19 gaining (1) 68:10 gallery (1) 6:20 game (7) 68:20;70:14;71:6, 12;72:24;108:13; 175:9 gap (4) 17:16;124:5;184:6; 218:4 gaps (1) 55:2 garbage (2) 66:13;132:13 gardeners (4) 30:22;33:5;166:7; 195:8
focused (3) 47:20;144:17; 177:16 focusing (4) 107:3;142:21; 192:19;233:6 folks (13) 5:3;73:11;77:6,6; 96:11,15;97:4,18; 98:14;118:14;154:2; 199:1;233:9 folks' (1) 96:25 follow (8) 44:12;71:11;75:14; 78:16,22;152:18; 185:5;205:6 followed (1) 182:21 following (10) 15:3;31:11;76:25; 97:25;166:22;171:24;	42:19 force (1) 88:2 forcing (1) 144:19 forefront (1) 85:15 foreign (3) 199:23;217:8,9 foreseeable (1) 16:16 forests (1) 33:14 forever (3) 167:2;193:18;229:3 forget (11) 19:14;22:11;38:16; 43:10;45:19;53:10; 60:19;63:21;81:18; 87:6;235:12 forgot (2) 109:5;213:22	37:23;44:17;46:1; 88:25 founder (1) 135:22 four (8) 34:6;84:25;146:20; 172:6;175:14;179:17; 224:6,11 fourth (5) 22:23;60:22,23; 73:25;179:23 fragmented (3) 29:7;204:3;236:14 framework (2) 124:13;199:7 Francisco (3) 147:2,7;148:22 frank (1) 60:3 Franklin (6) 11:14,15;187:18; 218:10;221:9,13	22;89:9,11;90:20; 91:3,5;132:9,10; 133:14;142:13;183:6 fruits (2) 230:16,16 frustrated (1) 201:21 frustrating (4) 115:8;116:5;118:8; 139:14 FSA (1) 138:12 fuel (2) 205:3;216:5 full (12) 6:22;12:21;18:18, 18;59:21;93:22; 97:16;98:19;153:20; 163:22;177:2;227:14 fully (11) 15:13;16:21;17:13; 22:3;54:11;55:1;	210:19 gain (2) 59:19;68:19 gaining (1) 68:10 gallery (1) 6:20 game (7) 68:20;70:14;71:6, 12;72:24;108:13; 175:9 gap (4) 17:16;124:5;184:6; 218:4 gaps (1) 55:2 garbage (2) 66:13;132:13 gardeners (4) 30:22;33:5;166:7;
focused (3) 47:20;144:17; 177:16 focusing (4) 107:3;142:21; 192:19;233:6 folks (13) 5:3;73:11;77:6,6; 96:11,15;97:4,18; 98:14;118:14;154:2; 199:1;233:9 folks' (1) 96:25 follow (8) 44:12;71:11;75:14; 78:16,22;152:18; 185:5;205:6 followed (1) 182:21 following (10) 15:3;31:11;76:25; 97:25;166:22;171:24; 188:15;202:14;	42:19 force (1) 88:2 forcing (1) 144:19 forefront (1) 85:15 foreign (3) 199:23;217:8,9 foreseeable (1) 16:16 forests (1) 33:14 forever (3) 167:2;193:18;229:3 forget (11) 19:14;22:11;38:16; 43:10;45:19;53:10; 60:19;63:21;81:18; 87:6;235:12 forgot (2) 109:5;213:22 forks (2)	37:23;44:17;46:1; 88:25 founder (1) 135:22 four (8) 34:6;84:25;146:20; 172:6;175:14;179:17; 224:6,11 fourth (5) 22:23;60:22,23; 73:25;179:23 fragmented (3) 29:7;204:3;236:14 framework (2) 124:13;199:7 Francisco (3) 147:2,7;148:22 frank (1) 60:3 Franklin (6) 11:14,15;187:18; 218:10;221:9,13 Franklin's (2)	22;89:9,11;90:20; 91:3,5;132:9,10; 133:14;142:13;183:6 fruits (2) 230:16,16 frustrated (1) 201:21 frustrating (4) 115:8;116:5;118:8; 139:14 FSA (1) 138:12 fuel (2) 205:3;216:5 full (12) 6:22;12:21;18:18, 18;59:21;93:22; 97:16;98:19;153:20; 163:22;177:2;227:14 fully (11) 15:13;16:21;17:13; 22:3;54:11;55:1; 61:24;123:4;158:13;	210:19 gain (2) 59:19;68:19 gaining (1) 68:10 gallery (1) 6:20 game (7) 68:20;70:14;71:6, 12;72:24;108:13; 175:9 gap (4) 17:16;124:5;184:6; 218:4 gaps (1) 55:2 garbage (2) 66:13;132:13 gardeners (4) 30:22;33:5;166:7; 195:8 gatekeep (1) 72:13
focused (3) 47:20;144:17; 177:16 focusing (4) 107:3;142:21; 192:19;233:6 folks (13) 5:3;73:11;77:6,6; 96:11,15;97:4,18; 98:14;118:14;154:2; 199:1;233:9 folks' (1) 96:25 follow (8) 44:12;71:11;75:14; 78:16,22;152:18; 185:5;205:6 followed (1) 182:21 following (10) 15:3;31:11;76:25; 97:25;166:22;171:24; 188:15;202:14; 205:21;223:2	42:19 force (1) 88:2 forcing (1) 144:19 forefront (1) 85:15 foreign (3) 199:23;217:8,9 foreseeable (1) 16:16 forests (1) 33:14 forever (3) 167:2;193:18;229:3 forget (11) 19:14;22:11;38:16; 43:10;45:19;53:10; 60:19;63:21;81:18; 87:6;235:12 forgot (2) 109:5;213:22 forks (2) 149:4,12	37:23;44:17;46:1; 88:25 founder (1) 135:22 four (8) 34:6;84:25;146:20; 172:6;175:14;179:17; 224:6,11 fourth (5) 22:23;60:22,23; 73:25;179:23 fragmented (3) 29:7;204:3;236:14 framework (2) 124:13;199:7 Francisco (3) 147:2,7;148:22 frank (1) 60:3 Franklin (6) 11:14,15;187:18; 218:10;221:9,13 Franklin's (2) 187:5;221:23	22;89:9,11;90:20; 91:3,5;132:9,10; 133:14;142:13;183:6 fruits (2) 230:16,16 frustrated (1) 201:21 frustrating (4) 115:8;116:5;118:8; 139:14 FSA (1) 138:12 fuel (2) 205:3;216:5 full (12) 6:22;12:21;18:18, 18;59:21;93:22; 97:16;98:19;153:20; 163:22;177:2;227:14 fully (11) 15:13;16:21;17:13; 22:3;54:11;55:1; 61:24;123:4;158:13; 199:16;206:2	210:19 gain (2) 59:19;68:19 gaining (1) 68:10 gallery (1) 6:20 game (7) 68:20;70:14;71:6, 12;72:24;108:13; 175:9 gap (4) 17:16;124:5;184:6; 218:4 gaps (1) 55:2 garbage (2) 66:13;132:13 gardeners (4) 30:22;33:5;166:7; 195:8 gatekeep (1)
focused (3) 47:20;144:17; 177:16 focusing (4) 107:3;142:21; 192:19;233:6 folks (13) 5:3;73:11;77:6,6; 96:11,15;97:4,18; 98:14;118:14;154:2; 199:1;233:9 folks' (1) 96:25 follow (8) 44:12;71:11;75:14; 78:16,22;152:18; 185:5;205:6 followed (1) 182:21 following (10) 15:3;31:11;76:25; 97:25;166:22;171:24; 188:15;202:14; 205:21;223:2 follow-up (14)	42:19 force (1) 88:2 forcing (1) 144:19 forefront (1) 85:15 foreign (3) 199:23;217:8,9 foreseeable (1) 16:16 forests (1) 33:14 forever (3) 167:2;193:18;229:3 forget (11) 19:14;22:11;38:16; 43:10;45:19;53:10; 60:19;63:21;81:18; 87:6;235:12 forgot (2) 109:5;213:22 forks (2) 149:4,12 form (1)	37:23;44:17;46:1; 88:25 founder (1) 135:22 four (8) 34:6;84:25;146:20; 172:6;175:14;179:17; 224:6,11 fourth (5) 22:23;60:22,23; 73:25;179:23 fragmented (3) 29:7;204:3;236:14 framework (2) 124:13;199:7 Francisco (3) 147:2,7;148:22 frank (1) 60:3 Franklin (6) 11:14,15;187:18; 218:10;221:9,13 Franklin's (2) 187:5;221:23 frankly (3)	22;89:9,11;90:20; 91:3,5;132:9,10; 133:14;142:13;183:6 fruits (2) 230:16,16 frustrated (1) 201:21 frustrating (4) 115:8;116:5;118:8; 139:14 FSA (1) 138:12 fuel (2) 205:3;216:5 full (12) 6:22;12:21;18:18, 18;59:21;93:22; 97:16;98:19;153:20; 163:22;177:2;227:14 fully (11) 15:13;16:21;17:13; 22:3;54:11;55:1; 61:24;123:4;158:13; 199:16;206:2 fumaric (2)	210:19 gain (2) 59:19;68:19 gaining (1) 68:10 gallery (1) 6:20 game (7) 68:20;70:14;71:6, 12;72:24;108:13; 175:9 gap (4) 17:16;124:5;184:6; 218:4 gaps (1) 55:2 garbage (2) 66:13;132:13 gardeners (4) 30:22;33:5;166:7; 195:8 gatekeep (1) 72:13 gatekeeper (1)
focused (3) 47:20;144:17; 177:16 focusing (4) 107:3;142:21; 192:19;233:6 folks (13) 5:3;73:11;77:6,6; 96:11,15;97:4,18; 98:14;118:14;154:2; 199:1;233:9 folks' (1) 96:25 follow (8) 44:12;71:11;75:14; 78:16,22;152:18; 185:5;205:6 following (10) 15:3;31:11;76:25; 97:25;166:22;171:24; 188:15;202:14; 205:21;223:2 follow-up (14) 17:9;77:2;86:7,22;	42:19 force (1) 88:2 forcing (1) 144:19 forefront (1) 85:15 foreign (3) 199:23;217:8,9 foreseeable (1) 16:16 forests (1) 33:14 forever (3) 167:2;193:18;229:3 forget (11) 19:14;22:11;38:16; 43:10;45:19;53:10; 60:19;63:21;81:18; 87:6;235:12 forgot (2) 109:5;213:22 forks (2) 149:4,12 form (1) 159:19	37:23;44:17;46:1; 88:25 founder (1) 135:22 four (8) 34:6;84:25;146:20; 172:6;175:14;179:17; 224:6,11 fourth (5) 22:23;60:22,23; 73:25;179:23 fragmented (3) 29:7;204:3;236:14 framework (2) 124:13;199:7 Francisco (3) 147:2,7;148:22 frank (1) 60:3 Franklin (6) 11:14,15;187:18; 218:10;221:9,13 Franklin's (2) 187:5;221:23 frankly (3) 107:21;131:22;	22;89:9,11;90:20; 91:3,5;132:9,10; 133:14;142:13;183:6 fruits (2) 230:16,16 frustrated (1) 201:21 frustrating (4) 115:8;116:5;118:8; 139:14 FSA (1) 138:12 fuel (2) 205:3;216:5 full (12) 6:22;12:21;18:18, 18;59:21;93:22; 97:16;98:19;153:20; 163:22;177:2;227:14 fully (11) 15:13;16:21;17:13; 22:3;54:11;55:1; 61:24;123:4;158:13; 199:16;206:2 fumaric (2) 93:1,2	210:19 gain (2) 59:19;68:19 gaining (1) 68:10 gallery (1) 6:20 game (7) 68:20;70:14;71:6, 12;72:24;108:13; 175:9 gap (4) 17:16;124:5;184:6; 218:4 gaps (1) 55:2 garbage (2) 66:13;132:13 gardeners (4) 30:22;33:5;166:7; 195:8 gatekeep (1) 72:13 gatekeeper (1) 190:15
focused (3) 47:20;144:17; 177:16 focusing (4) 107:3;142:21; 192:19;233:6 folks (13) 5:3;73:11;77:6,6; 96:11,15;97:4,18; 98:14;118:14;154:2; 199:1;233:9 folks' (1) 96:25 follow (8) 44:12;71:11;75:14; 78:16,22;152:18; 185:5;205:6 following (10) 15:3;31:11;76:25; 97:25;166:22;171:24; 188:15;202:14; 205:21;223:2 follow-up (14) 17:9;77:2;86:7,22; 95:7;113:6;116:12;	42:19 force (1) 88:2 forcing (1) 144:19 forefront (1) 85:15 foreign (3) 199:23;217:8,9 foreseeable (1) 16:16 forests (1) 33:14 forever (3) 167:2;193:18;229:3 forget (11) 19:14;22:11;38:16; 43:10;45:19;53:10; 60:19;63:21;81:18; 87:6;235:12 forgot (2) 109:5;213:22 forks (2) 149:4,12 form (1) 159:19 format (2)	37:23;44:17;46:1; 88:25 founder (1) 135:22 four (8) 34:6;84:25;146:20; 172:6;175:14;179:17; 224:6,11 fourth (5) 22:23;60:22,23; 73:25;179:23 fragmented (3) 29:7;204:3;236:14 framework (2) 124:13;199:7 Francisco (3) 147:2,7;148:22 frank (1) 60:3 Franklin (6) 11:14,15;187:18; 218:10;221:9,13 Franklin's (2) 187:5;221:23 frankly (3) 107:21;131:22; 201:19	22;89:9,11;90:20; 91:3,5;132:9,10; 133:14;142:13;183:6 fruits (2) 230:16,16 frustrated (1) 201:21 frustrating (4) 115:8;116:5;118:8; 139:14 FSA (1) 138:12 fuel (2) 205:3;216:5 full (12) 6:22;12:21;18:18, 18;59:21;93:22; 97:16;98:19;153:20; 163:22;177:2;227:14 fully (11) 15:13;16:21;17:13; 22:3;54:11;55:1; 61:24;123:4;158:13; 199:16;206:2 fumaric (2) 93:1,2 fun (1)	210:19 gain (2) 59:19;68:19 gaining (1) 68:10 gallery (1) 6:20 game (7) 68:20;70:14;71:6, 12;72:24;108:13; 175:9 gap (4) 17:16;124:5;184:6; 218:4 gaps (1) 55:2 garbage (2) 66:13;132:13 gardeners (4) 30:22;33:5;166:7; 195:8 gatekeep (1) 72:13 gatekeeper (1) 190:15 gather (1)
focused (3) 47:20;144:17; 177:16 focusing (4) 107:3;142:21; 192:19;233:6 folks (13) 5:3;73:11;77:6,6; 96:11,15;97:4,18; 98:14;118:14;154:2; 199:1;233:9 folks' (1) 96:25 follow (8) 44:12;71:11;75:14; 78:16,22;152:18; 185:5;205:6 following (10) 15:3;31:11;76:25; 97:25;166:22;171:24; 188:15;202:14; 205:21;223:2 follow-up (14) 17:9;77:2;86:7,22; 95:7;113:6;116:12; 118:15;121:21;132:6;	42:19 force (1) 88:2 forcing (1) 144:19 forefront (1) 85:15 foreign (3) 199:23;217:8,9 foreseeable (1) 16:16 forests (1) 33:14 forever (3) 167:2;193:18;229:3 forget (11) 19:14;22:11;38:16; 43:10;45:19;53:10; 60:19;63:21;81:18; 87:6;235:12 forgot (2) 109:5;213:22 forks (2) 149:4,12 form (1) 159:19 format (2) 172:1;176:16	37:23;44:17;46:1; 88:25 founder (1) 135:22 four (8) 34:6;84:25;146:20; 172:6;175:14;179:17; 224:6,11 fourth (5) 22:23;60:22,23; 73:25;179:23 fragmented (3) 29:7;204:3;236:14 framework (2) 124:13;199:7 Francisco (3) 147:2,7;148:22 frank (1) 60:3 Franklin (6) 11:14,15;187:18; 218:10;221:9,13 Franklin's (2) 187:5;221:23 frankly (3) 107:21;131:22; 201:19 fraud (15)	22;89:9,11;90:20; 91:3,5;132:9,10; 133:14;142:13;183:6 fruits (2) 230:16,16 frustrated (1) 201:21 frustrating (4) 115:8;116:5;118:8; 139:14 FSA (1) 138:12 fuel (2) 205:3;216:5 full (12) 6:22;12:21;18:18, 18;59:21;93:22; 97:16;98:19;153:20; 163:22;177:2;227:14 fully (11) 15:13;16:21;17:13; 22:3;54:11;55:1; 61:24;123:4;158:13; 199:16;206:2 fumaric (2) 93:1,2 fun (1) 178:12	210:19 gain (2) 59:19;68:19 gaining (1) 68:10 gallery (1) 6:20 game (7) 68:20;70:14;71:6, 12;72:24;108:13; 175:9 gap (4) 17:16;124:5;184:6; 218:4 gaps (1) 55:2 garbage (2) 66:13;132:13 gardeners (4) 30:22;33:5;166:7; 195:8 gatekeep (1) 72:13 gatekeeper (1) 190:15 gather (1) 36:24 gathering (3)
focused (3) 47:20;144:17; 177:16 focusing (4) 107:3;142:21; 192:19;233:6 folks (13) 5:3;73:11;77:6,6; 96:11,15;97:4,18; 98:14;118:14;154:2; 199:1;233:9 folks' (1) 96:25 follow (8) 44:12;71:11;75:14; 78:16,22;152:18; 185:5;205:6 followed (1) 182:21 following (10) 15:3;31:11;76:25; 97:25;166:22;171:24; 188:15;202:14; 205:21;223:2 follow-up (14) 17:9;77:2;86:7,22; 95:7;113:6;116:12; 118:15;121:21;132:6; 139:25;187:7,19;	42:19 force (1) 88:2 forcing (1) 144:19 forefront (1) 85:15 foreign (3) 199:23;217:8,9 foreseeable (1) 16:16 forests (1) 33:14 forever (3) 167:2;193:18;229:3 forget (11) 19:14;22:11;38:16; 43:10;45:19;53:10; 60:19;63:21;81:18; 87:6;235:12 forgot (2) 109:5;213:22 forks (2) 149:4,12 form (1) 159:19 format (2) 172:1;176:16 former (2)	37:23;44:17;46:1; 88:25 founder (1) 135:22 four (8) 34:6;84:25;146:20; 172:6;175:14;179:17; 224:6,11 fourth (5) 22:23;60:22,23; 73:25;179:23 fragmented (3) 29:7;204:3;236:14 framework (2) 124:13;199:7 Francisco (3) 147:2,7;148:22 frank (1) 60:3 Franklin (6) 11:14,15;187:18; 218:10;221:9,13 Franklin's (2) 187:5;221:23 frankly (3) 107:21;131:22; 201:19 fraud (15) 46:8,9,16;107:5,6,	22;89:9,11;90:20; 91:3,5;132:9,10; 133:14;142:13;183:6 fruits (2) 230:16,16 frustrated (1) 201:21 frustrating (4) 115:8;116:5;118:8; 139:14 FSA (1) 138:12 fuel (2) 205:3;216:5 full (12) 6:22;12:21;18:18, 18;59:21;93:22; 97:16;98:19;153:20; 163:22;177:2;227:14 fully (11) 15:13;16:21;17:13; 22:3;54:11;55:1; 61:24;123:4;158:13; 199:16;206:2 fumaric (2) 93:1,2 fun (1) 178:12 function (2)	210:19 gain (2) 59:19;68:19 gaining (1) 68:10 gallery (1) 6:20 game (7) 68:20;70:14;71:6, 12;72:24;108:13; 175:9 gap (4) 17:16;124:5;184:6; 218:4 gaps (1) 55:2 garbage (2) 66:13;132:13 gardeners (4) 30:22;33:5;166:7; 195:8 gatekeeper (1) 72:13 gather (1) 36:24

Burke Court Reporting & Transcription (973) 692-0660

55:10 gearing (1) 165:7 general (8) 52:5;62:24;97:15; 117:16;129:19; 162:15;171:13; 216:22 generally (7) goal (5) 36:4:39:12:77:5; 133:16,25;204:14; 205:22 generated (2) 147:12,22 generation (5) 22:24;60:22,23; 73:25;198:9 generic (1) 85:9 genetic (1) 54:14 genetically (2) 54:17;55:10 geography (1) 236:23 gets (9) 99:12;112:8;132:4; 179:18;180:2;184:1; 190:8;199:18;203:17 Ghana (6) 60:25:62:3,10,22; 63:3.12 ginger (1) 230:9 Ginny (15) 160:16;166:3; 170:23,24,25;171:1,6; 178:14,18,21;180:11, 14;181:21;182:1,17 gist (1) 107:7 given (8) 21:12;117:17; 119:19;138:21;152:6; 159:9;206:14;216:21 gives (1) 163:4 giving (6) 19:18;20:14;48:23; 144:13;220:11;236:7 glad (6) 42:16;149:16; 182:17;191:3;221:21; 238:1 glean (1) 125:21 global (21) 46:9;48:7,12,17,21; 64:11,12;65:1;68:17, 22,24;107:3;118:25; 142:5;155:6;157:2; 183:4,8,11;200:18;

globally (2) 79:19 49:1:101:15 government (3) Glycosylates (1) 113:17:118:24; 226:14 167:2 grace (3) **GMO (3)** 9:18;19:13;21:12 23:16,18;71:4 GMOs (1) grade (3) 47:3 33:20;202:19;204:4 grain (9) 79:21:85:12; 25:6:26:9:29:19; 125:13;134:24;149:6 107:3;136:8,19,22; goalpost (2) 163:16:202:18 137:24;138:4 grains (13) goals (4) 22:24;23:11,13,21; 59:12;147:24; 58:10;61:23,25; 100:11;101:21,24; 151:5;235:20 **GOED** (7) 136:3,5,24 155:7,13,16;156:7, gram (4) 20;157:4,6 31:12,19,22,24 goes (10) grams (2) 31:14,20 29:10;105:24; Grant (10) 121:22;132:1;134:14; 144:5;153:6;193:17; 19:12;22:10;30:13, 206:19;210:10 14;38:11;73:12;79:3; Goldstein (3) 174:20;176:13;238:6 222:16;225:11; graphic (2) 238:18 57:7,18 Good (95) grasp (1) 10:5,8,9,16,17,18, 77:8 19,24,25;11:1,3,4,5,8, grass-finished (1) 236:21 10,11,13,14,16,17,18, 19:12:4:19:17:25:12: grateful (9) 27:1:30:17,19:33:1; 9:1,23:12:6;64:3; 43:12,12;45:22;52:8, 65:4;168:25;188:11; 199:12:232:9 9;56:10;61:22;71:2; great (63) 81:21;90:5,14;91:20; 98:14,17;104:5; 14:14;16:8;18:23; 32:24:35:18:45:22; 117:8,20;121:21; 123:2,2,16,16;124:12; 46:1;48:19;50:12; 126:10;128:10,11; 56:9;67:16,17;73:2, 135:20;137:20;138:3, 19;75:8;87:8;90:3,7; 23;141:4;142:3; 91:19:101:23:106:18; 151:13;156:22;166:4; 116:3,24;118:10; 169:22;170:3,20; 124:2;131:18,19; 171:10;174:14;175:7; 132:23;135:4;137:16, 176:16;179:6,8; 17,18;140:17;142:19; 180:17;182:2,24,24; 145:9;151:12;155:5; 185:12;187:15;188:8; 157:19;160:19; 194:18;195:3;203:24; 163:20;171:8;175:9; 207:6;212:8;215:9; 176:7;177:6;178:17; 222:19:225:5:229:17, 180:18;181:12; 19;231:22;232:6; 186:23;187:18;192:4, 7,19;193:2,11; 234:10;235:19; 197:21;206:5;222:19; 236:20 225:14;232:8;234:19; goods (1) 235:11,23;237:1 21:16 Google (1) greater (12) 196:9 39:9;44:23;56:15; Gordon (1) 65:1;156:18;173:3, 236:22 15:216:5,16,23; gosh (1) 218:3;227:7 193:18 greatest (1) governing (1) 226:9

green (4) 148:14:149:21: 150:12:173:7 greenhouse (2) 44:24;145:15 greenhouses (3) 53:23;54:19;144:24 Greens (2) 31:17;32:2 greenwashing (2) 149:18;150:13 grew (2) 73:25;236:8 Grigsby (1) 170:9 grinding (1) 40:14 Grocers (2) 67:21;107:8 grocery (7) 33:22;34:5,24; 35:12;70:10;91:24; 148:11 ground (9) 16:20;62:6,7;77:6; 103:3;132:4;150:11; 203:15;205:15 group (16) 9:24;17:11;22:5; 40:7;44:16;45:8; 58:18:66:24:98:3; 104:1:172:13:178:7: 186:21;190:4;215:11, 12 groups (15) 16:23;17:10,16,19; 40:10;45:5;58:7;70:8; 137:1;173:25;174:4, 14,14,17;176:4 grow (23) 16:6;26:25;27:3; 28:9:33:25:36:6.21; 68:12;76:24;105:9; 115:17,17;140:1; 143:8;174:3;175:15; 198:20;203:6;217:24; 222:22;226:13; 232:12;237:2 grower (4) 17:10,11;34:3; 137:12 growers (35) 30:22;34:25;35:20; 36:10,11;37:17; 54:15;57:15;72:18, 19;87:10;88:11,16; 89:1,15,22;90:1,20, 21;91:3,8;107:23; 137:17;145:23; 184:10:185:21; 186:16;206:18; 222:22;223:11,13,14, 25;224:2,5

- Vol. 1 April 23, 2024

growers' (3) 47:11;224:8,15 growing (21) 27:21;34:21,22; 61:7;62:24;76:21,23; 108:22;117:24; 118:12;119:8;143:12; 179:6;199:22;203:9; 216:19;226:1,6; 227:4;230:10;237:16 grown (8) 26:8:33:2:44:21: 46:19;79:25;100:13; 143:9;198:18 grows (1) 123:24 growth (4) 143:4;156:23; 173:3;202:9 guarantee (1) 124:6 Guardian (1) 32:3 guess (13) 40:25;41:10,15; 51:14;52:7;56:3; 99:25;105:17;164:16; 169:3,12;218:15; 233:16 guidance (22) 46:25:47:18,22; 52:15;60:1,2,6,7;66:7, 8;92:24;93:3;124:4, 17;125:23;161:14; 207:15:208:14; 209:19;211:3;212:14; 213:13 guide (1) 126:24 guidelines (2) 148:15:226:16 guides (1) 210:8 guise (1) 96:16 gut (2) 136:15;209:8 guy (1) 62:6 guys (20) 6:12:13:22:25:23; 30:4,17;45:21;99:24; 104:14,19;115:16; 128:6;135:7;139:10; 140:10;151:12;163:1; 174:1;175:18;203:1; 237:24 Η half (4) 27:8;29:23;35:1; 202:6

225:24

hand (12) 6:14:10:1:12:1: 26:13:115:22:128:9; 170:20:187:6:197:1: 218:9:221:8.25 handed (1) 77:15 handful (3) 34:9;68:7;225:7 hand-in-hand (1) hay (1) 34:13 handle (6) 63:16:106:5: 111:16,17;226:18; 232:6 handler (2) 92:5,8 handling (11) 21:18;43:19;55:6; 88:7;92:8;94:15; 119:9:143:19:155:14; 226:12;228:19 hands (4) 77:14;78:8;86:25; 190:24 hand-weeding (1) 6 222:5 hang (4) 72:2;77:20;102:4; 104:21 hanging (1) 224:22 happen (3) 15:7;166:21;233:8 happened (2) 152:24;232:24 happening (5) 62:7,13;137:14; 167:15;204:13 happy (16) 12:5;24:22;45:9,9; 86:19:100:2:135:14; 174:25;179:9;186:5; 192:1;193:10;210:20, 22;214:15,24 hard (25) 9:21;23:11;27:21; 58:19,25;59:15; 60:13;68:18;71:7; 72:23;89:14;111:14; 115:21;116:4;131:3; 134:4;137:20;148:5; 152:25;159:20; 160:23;168:14,23; 179:14;203:19 Harry (7) 146:12,22;155:2,3, 5:157:9,10 harvest (3) 25:25;143:19; 226:11 hate (1) 105:11

haul (1) 29:21 hauler (1) 150:10 hedge (2) hauling (1) 29:19 Hawkins (7) 53:9:60:18:63:19, 23,24;66:23;189:7 held (2) 22:24 Hello (7) hazardous (1) 84:9 head (1) help (34) 59:17 headway (1) 26:22 health (16) 27:2;31:5;42:20; 44:8;80:16,18;84:4, 24;103:21;105:7; 161:3;196:8;224:19; 226:2;227:8,9 healthier (4) 36:7;101:20;106:4, healthy (4) 12:17;115:17; 166:8;232:10 hear (40) 8:10:10:13,14:25:4; 30:17:32:22:35:7: 38:21:41:20:43:19: 44:13;45:22;60:22; 67:15;76:3,12;77:9; 81:20;97:7;100:3; 105:21:107:6.8; 13 145:17;162:1;163:6; 165:20;171:3;178:16; 180:16:185:9,11; helps (7) 192:21;198:6;201:21; 205:6;217:19;220:24; 222:19;231:13 heard (30) 23:24;43:18;45:4; 57:20;59:21;65:12; herbs (1) 68:18;70:7;99:22; 125:7 121:7;140:3;145:15; herd (2) 149:8;150:5;154:3; 164:13;165:1,2; 170:5;177:19;180:9; 185:2,17;187:9; 192:13;194:3;217:20; 157:5 221:10;231:9;232:23 hearing (6) 12:18;140:5;187:9; 194:14;205:20; 110:2 212:22 Hev (12) hears (1) 101:20 Heather (11) 9:22;157:25; 160:16;166:2,5;

168:3,4,6;170:19,21; 195:18 heavily (1) 135:25 203:20;220:5 hedging (2) 216:25;220:1 82:25;216:17 8:23;91:19,20,20; 106:21;158:4;198:5 24:23;35:16;45:9; 47:25;55:2;74:18; 77:13;78:8;98:18; 104:9;111:17;118:10; 126:23,24;131:9; 141:5;145:18;149:5, 5;153:18;159:23; 162:19:169:11:181:2: 185:5;187:16;188:22; 190:7;193:23;200:18, 19;211:16;220:1; 235:19 helped (3) 29:23;134:16; 154:21 helpful (21) 17:19:36:23:37:4; 41:22:42:17:51:17: 96:18:98:10,17,20; 99:3.6:138:17:139:7: 165:20;181:20;186:4; 194:16;210:25;214:7, helping (3) 163:7;166:9;217:23 19:22;135:23; 141:5;150:5;193:14, 14;200:24 Hence (2) 22:18;144:1 158:18,21 Here's (2) 113:9,9 hesitate (1) hesitation (1) 142:24 hexane (1) 29:2;35:7;83:9; 90:5;98:21,24; 112:13:125:19: 131:13;192:24; 205:20;209:7

Hi (26) 32:21:35:8:48:4: 53:10,12;58:17; 60:21;62:20;63:23; 66:11;81:20;83:19; 106:25;117:8;118:23; 142:3;144:8;149:1; 151:4;155:5;162:25; 168:6;178:21;195:3; 197:2:215:9 high (23)28:12:31:24:51:2; 54:1:82:25:84:6: 88:23;90:13;103:4; 108:20;109:11; 131:22;132:3;148:5; 202:17;203:5;206:21; 213:19,20,20;217:9; 230:16,17 higher (9) 27:17;28:17;56:5; 215:20,24,25;216:6; 237:13.13 higher-risk (1) 25:18 high-level (1) 70:6 highlight (8) 37:6;54:25;150:7; 189:3;215:25;232:10; 233:2,10 highlighted (1) 57:7 highlighting (2) 83:16;103:15 highlights (1) 191:18 highly (2) 177:18:221:16 highly-processed (1) 71:4 high-risk (1) 65:22 Hilary (11) 146:6,12,22,23; 147:1;148:24;149:1; 151:2,4;153:15; 154:25 hills (1) 236:9 himself (1) 197:13 hinderance (1) 21:19 Historically (1) 46:15 history (6) 24:16;94:9;179:19, 22;182:10,11 hit (6) 174:21:176:7: 206:20;221:13,22; 231.11

- Vol. 1 April 23, 2024

Hold (3) 45:21;112:11,13 holder (1) 73:7 holders (1) 68:17 holding (4) 43:25:68:6.15: 154:7 holistic (1) 19:24 Holly (2) 44:2.13 Holm (2) 9:21:171:4 home (6) 12:8;29:3;30:22; 61:3;67:5;90:12 homework (1) 176:2 homogeneous (1) 132:17 Honestly (1) 197:16 honesty (1) 134:17 honor (1) 96:2 hook (1) 105:20 hop (1) 171:9 hope (9)21:11;35:2;55:15; 71:8;79:11;90:5; 129:15;176:9;237:16 hopeful (2) 20:10;149:18 hopefully (9) 14:4:22:6:26:22: 110:23;113:4;143:13; 193:22:205:15; 233:11 hoping (4) 27:25;139:13; 152:9;175:17 Horizon (3) 20:4;158:4,8 hormones (1) 47:3 horn (1) 158:24 horns (3) 158:16,19,20 horses (1) 159:14 Horticultural (7) 87:10;88:8,11; 89:21;223:3,17,19 horticulturist (1) 130:24 host (3) 7:20;33:15,18

hot (5) 18:12:70:12:95:11: 214:13:229:10 hour (1) 10:20 house (1) 71:18 housing (1) 147:10 hover (1) 5:25 hub (1) 19:21 Hudson (10) 14:10,13,15,15; 17:1,14,22;18:7,23; 19:4 huge (9) 23:5;105:25;133:2, 7,7;175:16;179:8; 194:10:222:3 human (9) 15:15:80:16:84:24: 85:14,14:100:12; 191:16;227:8,8 humans (3) 88:24;105:5;159:14 hundred (1) 68:5 hundreds (6) 78:4:81:3:127:15; 129:10:135:8:191:19 hurts (4) 133:14;206:17,18, 18 husband (1) 116:8 Huseman (24) 10:22,23;29:2,25: 111:2,6:113:5; 114:14:116:8:117:5: 127:5;128:5;200:16; 202:3;204:1,19,22; 205:5;219:20,23; 220:24;236:5,11; 237:19 hydrogen (4) 88:9;223:3,8,11 hydroponic (3) 44:20;53:24;54:19 hydroponics (3) 34:18:44:15,19 Ι I'm (2) 37:3;60:23 Idaho (1) 127:16 idea (17) 18:23;36:6;48:14; 64:14;77:4;98:14,22;

163:9,21:171:13; 173:24:182:10: 189:14:222:6 ideas (8) 24:20:35:10:94:10: 171:24,25;182:9,12; 200:22 identified (4) 54:15;94:24;96:13; 161:25 identify (4) 7:15;39:16;161:11; 191:20 identifying (2) 15:23;227:18 idolize (2) 68:9,13 IFAC (6) 118:25;119:2,20; 120:8,12,23 IFAC's (3) 119:13:120:16; 121:1 IFPA (9) 142:10,14;143:3, 13,16;183:12,25; 184:12;223:7 IFPA's (2) 184:16;223:6 Illinois (4) 29:16:60:24,24; 62:15 imagine (3) 21:6;128:3;196:20 immediate (1) 159:2 immediately (2) 39:21:112:11 **Immensely** (1) 187:17 impact (12) 12:8;26:23;46:1; 84:23:88:16:131:5: 151:11:184:3:196:18; 198:18;233:1;234:8 impacted (3) 17:17;125:4;144:1 impactful (1) 233:11 impacting (1) 184:22 impacts (3) 21:1;154:18;173:1 impartially (1) 81:10 imperative (4) 81:10;123:25; 216:25;217:5 implement (2) 77:18:209:17 implementation (3) 21:4;65:4,5 implemented (7)

16:21:17:9:54:12; 77:16:93:16:112:25: 163:18 implementing (2) 65:8:102:16 import (4) 136:25;218:16; 233:3,4 importance (5) 88:8:118:11; 142:19;144:17; 184:19 important (45) 9:7;25:11;26:19; 31:4;43:25;45:1;55:5, 23;57:10;58:5;77:24; 88:12;90:22;91:5; 94:15;95:19;101:4; 116:25;119:5;129:15; 130:10,15,19,21,22; 137:4,16;143:4; 147:12:148:2.8: 149:17;154:6;161:20; 169:3;172:12;174:2; 189:11;192:8;207:11, 14;221:4;224:12; 228:2,5 importantly (2) 68:12;81:12 importation (4) 136:3.5.8.19 importations (1) 136:16 imported (7) 23:3,11,21:61:23, 25,25;136:19 importer (4) 108:25:109:1.14: 113:2 importers (3) 113:1:119:18: 169:19 importing (3) 136:10,13,15 Imports (26) 23:3,6;26:20;41:1; 57:16;58:11;61:14; 64:14;107:20,20; 136:25;199:4,5,9; 201:22;212:23;217:6, 11;218:14;232:3,4,5, 7,13,22;233:11 impossible (2) 75:14;171:22 impressed (1) <u>9</u>:23 improper (1) 226:12 improve (10) 20:1;31:5,6;129:16; 157:2;161:3;162:21; 195:25:232:11,17 improved (1)

20:9 improvement (3) 54:9;84:3;235:17 improving (5) 52:24;61:21; 171:13:172:9:214:17 inasmuch (1) 154:21 in-between (1) 187:25 incentives (1) 82:8 inch (1) 133:3 inches (1) 75:11 include (12) 53:21;92:9;98:18; 99:7,10;124:20; 125:25;151:8;152:13; 207:16:208:3,12 included (6) 12:18;99:11; 104:10:124:23; 173:10:198:12 includes (4) 14:21;142:12; 152:21:167:20 including (17) 14:22;20:15;32:11; 43:17:80:25:81:11; 100:11:119:23: 124:12:153:2:160:5: 183:4:189:19.21: 192:14,15;214:24 inclusion (6) 93:12;147:5; 155:17;156:2;189:24; 190:1 inclusive (1) 124:21 inconsistency (1) 174:10 inconsistent (1) 21:18 inconsistently (1) 65:8 incorporate (1) 207:13 incorrectly (1) 131:5 in-country (1) 221:15 increase (7) 23:5;65:14;76:18; 155:11;172:8;216:4,5 increased (7) 64:19;65:7;75:19; 100:25;143:11; 199:16:201:7 increases (4) 103:6:162:7; 179:20:188:18

- Vol. 1 April 23, 2024

increasing (6) 25:8:28:20:53:22: 102:23;181:5;196:8 increasingly (2) 167:21;184:2 incredible (2) 136:6;182:6 incredibly (2) 80:5;169:3 incremental (1) 200:3 increments (1) 176:18 incurring (1) 173:2 indeed (2) 13:22;101:18 independent (8) 35:11,12;70:20; 71:14,24;72:8; 147:13;222:22 independents (2) 71:16.16 in-depth (2) 64:15;171:24 index (1) 20:6 India (1) 108:12 Indiana (1) 29:17 indicate (2) 13:18:209:18 indicated (1) 186:16 indigenous (2) 33:13:188:19 indirect (1) 37:8 individual (4) 13:8:64:25:95:22: 96:3 individually (1) 39:2 Individuals (1) 13:5 indoor (1) 145:16 induced (1) 183:9 industrialize (1) 43:4 industries (3) 122:4;204:13,17 industry (27) 31:16,25;43:4; 62:17;81:2;89:7; 105:25;108:20; 110:12;129:15; 130:12;132:16;134:1; 136:1;137:18;142:11, 15:155:7:156:23: 157:3;158:7,25;

99:10;137:17,19;

201:25

100:17

51:17

103:14

injury (1)

34:25

inks (2)

inner (2)

80:2

input (19)

34:15

insect (2)

223:21

149:2

228:8

39:25

213:22

128:15

97:22

insist (1)

initial (1)

172:17;174:3;184:23; 223:18.19 industry's (1) 87:15 inequitable (1) 217:5 inert (13) 38:21:39:3,9,10,12, 23;40:9;85:6;87:17; 89:3;167:23;225:24; 227:10 inerts (9) 39:15,19;40:7,20; 41:2;59:18;85:9; 87:20:166:17 inexpensive (1) 50:17 infant (1) 95:24 infield (1) 184:15 infiltrates (1) 106:10 inflation (1) 204:24 inflationary (1) 204:14 influence (3) 54:6;174:9,20 inform (1) 226:20 information (45) 36:24:55:3:59:20; 69:14:75:1:77:17: 84:21,23;97:24;98:8, 10;99:10;101:5; 102:22,25;104:13; 121:11:124:23: 125:21;126:1,3; 129:23;137:21,21,22; 138:18,20,23,24; 144:14,16,21;145:6, 12,23;171:25;181:2; 187:2;210:3;212:4,5; 214:19;227:15; 229:25;233:6 informative (2) 125:21;173:23 informed (4) 45:3,4;170:13; 227:12 INFRA (2) 71:13,21 infrastructure (3) 133:19;236:14; 237:3 ingredient (4) 62:2;119:25;120:2; 237:12 ingredients (23) 38:21;39:4,8,8,9,10, 10,12,23;40:9;84:25; 85:6;87:18;89:4;

instances (1) 119:1;155:19;167:23; 196:15 214:23;225:25; instead (3) 227:10,13,15;237:4 inherently (1) 141:8:173:11: 175:11 institutionalize (1) 189:18 institutionalized (2) initially (1) 189:7,13 **Institutionalizing (2)** initiative (11) 74:9,10,19,22;75:4, 64:8;189:23 institutions (1) 5,19,21;136:4; 138:10:191:17 82:12 initiatives (1) instructing (1) 85:8 instruction (7) 5:18;123:25; 124:10,16,24;125:1; 130:17,18 126:13 instructions (9) 130:21:132:9 124:8,18,20;125:3, innocuous (1) 13;126:3,19,22; 130:21 in-person (3) instrument (1) 15:6;43:17;172:7 15:14 **Instrumental** (1) 30:24;43:21;48:15, 211:1 17;49:10;50:1,3,9; insulin (1) 52:3;91:8;92:5; 196:10 111:11:153:24:161:2; insult (1) 173:12:209:2:216:13; 34:25 218:14:222:4 insurance (29) input-focused (1) 23:23,25;24:3,7,13, 18.21:26:20:33:6: inputs (14) 44:25;45:2,3;61:21; 20:17;31:1;39:2; 175:25;178:22; 47:8;48:14;49:20; 179:13,24;182:4; 183:9;184:5,6,9; 52:2.13:134:13: 186:4;201:12;205:1, 207:17;208:10;209:1; 216:20:221:14 4;232:8;235:13,20 insure (2) 99:23;223:24 179:3.7 integral (3) insects (1) 33:17;223:20;224:7 insecurity (2) integrated (2) 25:10;136:14 89:1,5 insight (1) integrating (1) 154:15 integrities (1) insights (1) 70:9 integrity (32) 15:14,22;17:13; inspection (5) 23:20;34:17;38:24; 161:11;163:3,5; 46:13;48:1;53:17; 209:23;213:11 57:22;64:15;70:8; inspections (2) 81:11;82:19;101:14; 213:9,14 103:14;107:11; inspector (1) 109:14;110:12,13; 111:25;112:20; inspectors (1) 113:18;115:7;124:6; 169:1:195:12:199:12: instance (1) 200:23;207:12;217:6; 225:1

intend (1) 68:3 intended (2) 65:20:79:25 intense (1) 15:10 intensive (2) 39:7:216:2 intent (4) 21:14;47:10;76:17; 111:24 intention (1) 65:14 intentional (1) 181:22 intentions (1) 112:2 interactions (1) 43:21 interest (7) 25:18;81:9;82:15; 142:20;183:7;206:17; 212:20 interested (4) 74:20;78:19,20; 121:19 interesting (5) 116:25:163:11; 191:23;218:12;228:2 interim (4) 18:22;93:17;94:25; 96:13 internal (3) 17:10;41:5;126:16 international (17) 48:16;49:5;55:24, 25:56:2,13:64:19: 80:17;91:22,23; 118:24;142:5;183:1, 24;186:9;219:6;223:6 internationally (3) 48:15:49:8.11 interpretation (5) 14:18;22:7;64:18; 93:13,18 interpretations (1) 64:23 interpreting (1) 164:7 intimate (1) 114:25 into (85) 7:3;17:7;23:9;28:4; 33:21;35:12;36:11; 41:2;42:25;46:5;48:7; 49:25;52:3;58:25; 59:5;61:5,25;62:11, 11;65:1;67:4;68:14, 14,15;70:7,14;71:12; 74:21;77:3;78:12,21; 84:11;89:3;90:25; 101:21,22;106:10; 112:10;119:24;123:6;

- Vol. 1 April 23, 2024

130:3;131:20;133:23; 136:8:137:11:138:12. 16;141:8;148:23; 149:2,19;166:23; 171:19:175:19; 182:11;191:5;196:17; 198:19;199:8;203:11; 207:18;208:9;209:12, 14;210:14;212:5,13, 19:213:1,10:214:16, 23;215:12;218:13,14; 220:17;228:9;229:3; 230:8;232:17;233:3, 21;236:21;237:15,20 intolerance (1) 125:6 intrigued (1) 197:3 introduce (3) 67:18;84:9;208:22 introduced (1) 11:21 introduces (1) 208:14 introducing (1) 210:13 introduction (1) 208:17 invaluable (1) 61:20 invasive (1) 224:3 inventory (3) 216:12.17:220:9 invest (2) 150:9;151:17 invested (1) 135:25 investigate (2) 32:4:227:3 investigation (2) 214:1,6 investment (4) 113:1;148:6; 172:12;216:8 investments (2) 82:8;151:18 invitation (1) 154:5 invite (1) 8:16 involved (7) 17:12;19:1;100:19; 115:9;118:7;142:12; 183:5 involvement (1) 12:15 involves (1) 159:2 iodine (2) 42:5;84:17 IOIA (1) 191:17

Spring 2024 Meeting				April 23, 2024
Iowa (3)		59:5	Kim (10)	70:25;71:8,22;72:2,
	-	juice (1)	10:22,24;28:24;	4
27:17;76:15;135:21	J			-
IP (1) 113:15		97:2	110:25;115:20;116:7;	kudos (1)
	Jackie (11)	Julia (6)	127:4;200:15;219:18;	178:3
IPM (4)	194:25;198:4;	38:13;43:7,9,13;	236:4	Kumar (1)
223:14,20;224:8,16	207:4,6;209:5,7;	45:14,15	kind (64)	9:22
Irlbeck (18)	210:23,24;212:7,10;	justice (1)	14:2;17:22;18:14,	Kyla (24)
123:12;128:22;	214:9	175:7	20,22;26:8;37:9,23;	9:12;10:3;12:2,3;
135:17,19,20;138:15;	Jake (1)	Justin (11)	41:14;42:8;43:2;	14:9,23;17:17;18:13;
139:6,9,17,21;140:6,	83:19	188:4;194:25;	50:10;58:2;60:7;71:8;	35:8;45:22;53:3,12;
11,13,16,25;141:15,	January (3)	198:3,8;200:5,7,16;	78:14;89:23;90:16,	71:12;77:3;87:8;
21,24	15:8;93:14;127:12	205:20;206:13;207:2;	17;94:11,21;95:21;	91:18;111:2;146:7;
irrigated (2)	Jared (7)	231:19	96:1;98:22;101:5,5;	160:19;180:14;188:8;
75:8;140:2	8:19,22,24;10:3;		103:16;107:18;	193:25;210:21;
irrigation (3)	11:21,23;157:22	K	110:20;113:11;	214:25
143:24;144:18;	Javier (2)		114:24;115:13;118:1,	Kyla's (1)
223:12	11:19,20	Karlin (1)	3;126:5,8;144:19;	18:14
ISO (4)	Jay (9)	18:7	145:21;149:9;163:8;	
48:10;49:2,14,14	42:3;79:7,13;81:18;	Kastel (5)	169:10;174:21;	L
ISO-2200 (1)	83:16,18;85:17,18;	79:6,12,15,16;	180:21;192:9;194:2;	
31:2	86:25	81:16	202:20,22;203:5,14,	La (1)
issue (29)	Jeffrey (13)	Keegan (15)	14;204:4,15;206:14;	79:17
18:9;20:23;23:2;	10:24,25;11:3;	91:17;99:16;	209:8;212:12,17,21;	lab (9)
28:1;29:15;34:19;	58:17;60:14;66:11;	106:19,21,21,25,25,	218:24;220:4;221:11,	109:21,22,23,23;
38:23;39:15;44:19;		25;109:16;110:23;	24;234:5;235:10;	112:16,18;127:15,17,
55:8;60:13;63:5;67:1;	67:9;69:7;133:13;	111:5,19;113:9;	236:13	20
75:7;81:25;90:12,19;	162:25;178:11;211:6,	114:16,18	kinds (1)	label (14)
112:10;113:12,15,16;	20	keep (29)	59:4	34:9;50:22,23;51:2;
127:24;150:22;151:1;	Jerry (11)	7:14;10:21;12:16;	S9.4 Klein (5)	64:13;81:11;101:19;
	10:17,19;176:25;			
156:2;166:18;179:8;	204:23;205:19;206:9;	18:20;28:6;55:16;	43:8;45:17,18,18;	117:4;118:6;125:10,
202:19;234:7	221:7,19,21;233:14,	58:13;60:16;64:5;	238:8	14;150:15;169:2;
issues (29)	22	69:2;71:8;85:15;	Kline (2)	195:12
13:10;24:22;25:13;	jettisoned (1)	94:18;98:24;105:20;	73:13;79:4	labeled (7)
44:8;53:17;55:8;	165:1	123:25;139:22,22;	Klokkenga (5)	93:21;155:19;
58:13;59:4,18;64:1;	job (3)	151:18;152:1,3;	53:9;60:18,21,21;	226:18,21,23;229:16;
68:25;74:21;84:3,6;	35:2;235:1,23	164:18;169:13;	63:1	230:25
85:5;92:15;110:19;	Johanna (11)	176:17;177:7;198:15;	knew (1)	labeling (6)
123:5,7;134:18;	9:21;114:20;	201:13;231:22,23	108:1	21:15;22:4;118:6;
135:3,6;150:22;	118:22;123:11,13;	keeping (6)	knowing (3)	149:19,21;150:21
164:1;177:15,21;	125:17,18,19;128:8,	28:2;75:13;115:7,	59:21;70:24;120:6	labelling (1)
184:22;206:15;	13,18	13;126:8;235:24	knowingly (1)	23:20
221:11	Johnson (16)	keeps (2)	107:25	labels (1)
issuing (1)	11:2;36:18;38:3;	181:5;199:21	knowledge (5)	39:12
233:5	94:6;95:5,9,12;96:18;	kept (2)	91:2;104:6;115:1;	labor (14)
it's (1)	138:9;139:5,7,12;	139:10;167:25	126:9;188:19	34:16;115:4;216:4;
151:13		key (6)	knowledgeable (1)	218:13,14,17,18,21,
item (4)	153:14;154:23;191:1;	149:24;201:15;	165:5	25;219:9,14;221:14,
44:24;64:7;66:2;	192:4	216:11;224:13;226:1;	known (5)	23;222:3
222:4	join (3)	227:11	39:21;129:11;	laboratories (2)
items (8)	10:22;146:9;178:7	kicked (2)	171:12;228:20;229:4	49:3,14
34:9;45:8;57:9;	joined (2)	138:25;139:2	knows (2)	laboratory (2)
64:2;103:16;166:16;	63:21;234:15	kicking (1)	67:7;77:8	124:16,21
	joining (21)	16:19	Kris (3)	
189:21;191:25	5:12;10:10,20;21:3;			labs (5)
iterate (1)	26:16;29:3;48:5;	kidding (1)	60:21;62:20;63:17	127:6,7,9,22;128:3
138:3	55:19;62:20;77:22;	14:8	Krisopher (1)	lack (11)
Iteration (1)	103:13;104:16;105:1;	kidney (1)	62:18	34:18;36:5;39:8;
211:4	115:19;125:20;	196:9	Kristopher (2)	54:21;55:11;57:24;
IV (1)	157:15;173:20;	kids (2)	53:9;60:17	58:10;64:21;108:1;
159:9	180:15;186:2;217:17;	69:19;74:3	Kroeck (9)	216:14;219:25
Ivory (1)	231:8	kill (1)	32:21,23;33:1,1;	lacks (1)
62:2	joke (1)	223:20	35:17;36:16;37:5;	34:16
	25:24	kills (1)	38:5,8	lactic (2)
	juggernaut (1)	223:15	Kroger (5)	119:2,5
	J		_	

laid (1) latter (1) 88:25 236:18 laudable (1) Lake (1) 63:1 151:6 laughing (1) Lakewood (1) 67:21 194:9 land (10) launch (1) 75:10;115:12; 155:8 126:11;134:3;161:5; law (9) 172:17,21,22;174:20; 39:5:80:15:81:3: 209:20 152:12,21;153:6,25; lands (2) 154:15;227:7 213:17;223:12 laws (1) landscape (2) 79:19 149:24;154:18 lead (5) landscapers (1) 19:21;84:13;91:2; 132:12;215:20 151:14 Langager (9) leader (1) 81:18;83:17;87:4,8, 30:21 9;89:24;90:8,24; leadership (3) 91:13 83:21;85:5;189:9 language (2) leading (3) 40:4:42:6 18:5;34:19;91:23 languages (1) leads (3) 6:11 91:9;188:12;216:5 large (13) leaf (3)33:18;34:5,14; 88:20;147:25;149:9 54:21;77:12;101:20; Leafy (2) 102:17;110:20;130:7; 31:17;32:1 150:14:158:6:191:16; league (1) 198:17 169:24 largely (7) lean (4) 68:4:93:13:101:8; 55:15:126:22; 107:2;108:14;209:25; 168:23;204:8 210:5 leaning (1) 154:14 larger (3) 26:9;215:25;219:14 learn (6) large-scale (1) 56:24:76:13: 103:20,22;141:7; 68:4 largest (2) 230:19 39:10:107:22 learning (3) larynx (1) 21:8;35:1;141:1 80:13 learns (1) 196:21 last (25) 27:4,24;28:16; least (7) 21:9;28:6;55:25; 31:15;33:2;47:15; 54:24;65:13;79:3; 165:12,12;167:7; 222:5 82:3;113:6;136:24; 137:15,25;175:14,22; leave (3) 182:5;191:6;198:13; 26:3;89:10;137:3 204:2,24;216:20; leaving (1) 179:12 222:14;231:21; 234:12 led (3) 110:19;163:20; lasting (1) 189:8 196:10 left (6) Lastly (3) 23:23;65:23;120:23 7:24;70:19,20; 72:11;73:8;115:4 late (1) 224:23 legacy (1) latent (1) 229:1 44:23 legislative (1) later (2) 168:12 57:20;66:25 legit (1)

202:23 legitimate (1) 200:25 lenders (1) 216:18 lending (3) 62:21;215:13,16 length (2) 65:12;184:14 lens (7) 37:16,21;64:9; 111:3;127:8;219:23; 221:4 less (14) 28:15;31:18,20; 56:6;95:3;122:13; 150:3,9;166:21; 177:7;187:11;216:24; 222:1;232:5 letter (3) 79:19;112:13; 120:25 letting (4) 95:18;96:15;180:4; 194:20 level (31) 15:18;16:6;23:19; 41:4,16;61:23;71:7; 73:7;74:8,14,17,23; 77:25,25;88:15; 103:4:107:7,10: 108:13:125:4:137:19: 138:3,12;170:6; 189:24:190:2:199:13: 200:10;206:2;217:7; 218:16 leveling (1) 233:19 levels (11) 31:6:138:3:143:7. 11;167:12;184:2; 185:4,8,16:207:15; 224:20 lever (2) 58:24;59:11 leverage (5) 18:19,22;190:10; 192:3;218:1 Lewis (37) 10:9,13;41:19;42:3, 13,16;43:5;49:17; 60:18:63:19:67:11. 14,16,16,18,20,20; 69:16;70:18;71:13, 23;73:5;90:5,9;96:22; 131:13;132:5;133:9; 149:1,8,11;164:22; 165:9,12;170:19; 197:2,21 liberation (1) 188:21 lidocaine (1) 159:2

lie (1) 126:7 lies (1)68:17 life (3) 20:25;35:1;101:9 light (3) 14:3:69:13:224:2 lightening (1) 58:3 lighter (1) 88:13 lights (1) 14:2 liked (1) 175:24 likelihood (1) 235:6 likely (3) 62:13;80:21;166:21 liking (1) 129:11 Lillian (3) 60:18:63:19:66:4 Lily (5) 53:9;63:24;66:22; 67:10;189:7 **limit** (10) 31:20,21,22;54:1; 145:8;148:16;149:20; 185:3.7.16 limitation (1) 234:24 limitations (2) 143:2;145:5 limited (9) 36:13;46:20;47:3; 126:25;145:12;159:5; 169:9;233:17;237:8 limiting (1) 233:20 limits (2) 190:14;236:25 Linda (3) 44:2,4,13 Linda's (1) 45:16 line (16) 30:9,10;42:23; 53:19;65:20;66:20; 91:18:102:4:111:14; 158:22:170:25: 209:20;222:4,10,11; 234:13 lined (1) 153:25 liners (2) 147:11;150:20 lines (4) 37:3:119:19; 211:10;218:2 linkage (1) 201:2

- Vol. 1 April 23, 2024

linked (2) 172:22:196:9 list (31) 7:12,15,25;8:20; 20:5,11,18,22;39:21; 40:1,5,6;42:4;55:9; 85:4,10,22;86:24; 97:9;131:16;142:25; 157:5;159:21;167:25; 173:14:184:18; 222:13;223:23; 224:18;225:10; 227:14 listed (5) 20:6;39:12;47:10; 144:20;208:19 listen (2) 113:15;135:6 listened (1) 205:25 listening (1) 5:19 listing (21) 40:12;84:20;85:9; 88:21;93:25;94:10, 14,17;95:22,22; 129:10;144:11,13; 173:11,13;223:8,16, 22;224:4,9,17 listings (1) 173:16 literally (2) 81:8:132:4 little (49) 13:25;18:6;29:7; 36:12;48:8;51:12; 52:10,16,22;57:19; 69:8;70:6;76:13;96:7; 98:2;112:6,8;113:19; 114:24:115:23; 116:14;122:1,7,17,20; 127:8,12:133:18; 136:8;138:11;145:2; 154:10;163:7;175:9; 176:1,2;177:5; 186:11;187:8;191:6; 197:22;201:21; 202:18;211:13,17; 218:1;220:9;228:8; 236:11 live (10) 6:6;27:16;58:25; 67:6;101:19;105:3; 147:9;151:7;203:9; 207:25 liver (1) 196:9 lives (1) 101:20 livestock (16) 19:25;20:8,11; 27:14;39:14;41:24; 53:17,18;57:25;

- Vol. 1 April 23, 2024

Spring 2024 Meeting				April 23, 2024
65:11;124:12;202:15,	31:5;189:8;201:20;	29:12;35:12;49:9,22;	178:12	218:25
17;206:19;207:17;	215:19	52:19;56:24;61:22;	magnesium (5)	manuals (1)
237:21	long-time (1)	87:3;93:8;94:20,25;	88:9;223:4;224:17,	111:10
living (3)	44:2	95:14;97:3,17,19;	19.21	manufactured (1)
75:13;76:18;198:23	look (32)	98:14,20;100:14;	main (4)	80:22
Liz (7)	12:18;37:13,16;	103:8,24;105:3;	75:5;129:21;160:1;	manufacturer (5)
14:11;19:9,11,14,	46:5;50:13,18,23;	107:6,18,21;110:10,	228:16	30:24;31:3;120:5,8;
16;22:2,2	52:20;55:22;60:11;	17;111:20;113:17;	Maine (8)	121:8
L-Malic (6)	78:5,20;85:20;90:20;	132:2;136:22;140:25;	33:4,4;166:6;167:1,	manufacturers (5)
92:19,20,22,25;	98:22;110:8;121:18;	144:10,10,21;149:17;	7,14,15;196:15	91:1;119:1,22,25;
93:4,5	125:23;126:2;163:25;	150:13;153:4,15;	maintain (4)	120:3
load (5)	164:1,11;174:3;	154:4,4,12,14,14;	23:20;125:10,14;	manufacturing (2)
23:17;25:16;27:25;	176:11,16;191:8;	174:9,9,16;175:5,5;	186:9	30:22;120:1
69:21;208:7	193:22;202:13;	178:12;180:24;191:4;	maintained (2)	manure (9)
lobby (1)	212:18;214:25;219:5;	194:3,16;198:24;	112:21;199:13	28:14;31:11,13,14;
81:5	220:15	199:3;200:22;201:2,	maintaining (2)	207:25;208:3,5,7;
lobbyists (1)	looked (3)	6;204:11,12,16,16,17;	110:13;156:21	209:2
81:2	56:13;130:17,17	205:23;212:23;213:8;	maintenance (1)	many (34)
local (27)	looking (31)	217:25;220:20;	223:13	17:5;21:3;23:9,24;
29:12,13;34:5,10;	17:15,22;37:21;	230:17;232:17;233:9;	major (3)	24:12;30:22;31:7;
71:24;72:3;73:2;	48:11,12,13,13,20;	235:3,5	32:10;36:8;233:7	58:6;110:9;111:25,
74:15,17,23,25;78:13;	51:23;53:21;61:6,20;	lots (3)	majority (8)	25;112:4;119:6;
91:24;137:19;138:12,	69:10;73:11;90:10,	94:10;100:22;	33:22;34:24;75:9;	137:11;147:9;148:7;
16,17,22;140:17,24;	25;94:24;103:17;	125:22	87:12;162:5;204:10,	149:25;150:6;158:10;
166:10;194:12,12;	127:19,22;144:6;	loud (3)	21;208:20	159:9;171:16,16;
216:14;217:3;218:16;	163:12;164:20;177:7;	14:6;153:5;220:25	makes (6)	180:5;190:17;195:18;
219:12 locally (3)	191:9;211:8;212:15; 213:12;216:22;	love (10) 25:4;26:16;70:12;	49:4;119:6;171:22; 203:21;205:9,11	198:11;199:24; 212:19;213:20;
36:14;104:2;219:14	213:12;216:22; 221:25;237:5	116:24;118:10;	making (22)	217:19;223:25;224:2,
locate (1)	looks (20)	121:20;145:17;191:6;	13:6;24:10,17;	5;226:10
7:10	24:25;68:3;69:5;	192:9,21	48:24;58:23;59:1,8;	March (1)
located (2)	76:10;83:8;89:18;	lovely (1)	73:5;77:7;108:24;	63:3
60:24;215:11	102:1;115:19;121:4;	123:4	134:25;154:3;159:19;	Marcuccio (7)
locked (1)	131:11;138:4,7;	loving (1)	165:4;166:10;180:17;	19:12;22:10;30:13;
188:2	148:25;164:2;171:1;	74:4	182:4;195:13;212:4;	38:11;73:12;79:4;
Lockton (1)	180:12;184:24;	low (12)	218:19;235:3;237:1	238:6
178:22	190:24;201:2;225:7	65:6;88:16,16,24;	maladies (1)	marginalized (1)
lodge (1)	loop (5)	169:14;184:2;185:3,	69:25	16:2
147:6	148:3,13,20;	7,16;212:17,24;	malign (1)	marine (3)
log (2)	152:15;153:17	228:21	13:7	115:25;116:3;157:1
7:4,5	loopholes (3)	lower (3)	manage (1)	Mark (19)
Logan (6)	53:16;58:1,8	28:18;175:8;217:12	175:8	79:6,12,13,15;
11:9,11;72:15;	Lord's (1)	low-risk (3)	management (21)	81:14,14;91:25;
100:8;144:7;221:19	117:12	65:15,19,21	20:1,9;75:7,7,12;	198:4;207:4;215:6,7,
logical (2)	Lorenz (4)	luck (1)	89:1,5;102:24;103:5,	10;217:14,15,16;
134:22;235:19	83:17;87:5;91:15;	237:22	6;130:6;164:1;	218:12;219:18,20;
logistics (10)	238:10	lungs(1)	166:24;168:1;207:22;	222:8
29:4,7;70:7;71:20;	lose (4) 68:20;141:4;	85:14 Jymphome (1)	210:7;216:1,4; 219:24;223:24;	market (43)
116:16;177:25;204:3,		lymphoma (1)		12:16;15:4;16:3,4;
5;236:14,24 Lome (1)	205:10;206:20 losing (1)	80:12	234:22 Manager (5)	29:4,24;34:10,12; 36:11;61:10;69:16;
62:3	136:6	Μ	8:20;118:24;158:9;	70:9;72:1,14;82:10,
long (14)	loss (4)	171	207:7;222:21	11,23;101:22;107:1;
24:10;37:18;59:19;	82:2;88:22;184:13;	M&I (2)	managing (1)	111:4,15,17;112:3;
60:1;71:7;113:6,6;	220:18	50:20;51:1	96:25	116:20;119:14,16,19;
117:17;134:14;	losses (1)	MacGregor (4)	mandated (1)	122:21,23;123:23;
163:20;212:2;218:6;	184:11	157:24;158:3,3;	208:16	125:9;155:10;175:15;
227:18;231:3	lost (6)	160:14	manipulation (1)	176:13;198:12;
longer (9)	36:9;57:23;86:24;	machinations (1)	54:14	199:21;216:22,24;
23:6,10;24:8;159:3,	95:9,12;191:6	150:24	manner (1)	217:5;232:4;233:13;
3;166:20;216:17;	lot (80)	macro (2)	127:23	236:13;237:17
220:9;235:24	17:4;18:15,25;	18:15;217:2	manual (4)	marketing (5)
Long-term (4)	25:16;26:2,4,18;	Madam (1)	9:12;12:24;84:22;	23:14;31:17;32:2;

117 1 220 12	10 5 6
117:1;220:12	19:5,6
marketplace (7)	9;38:1
36:20;64:13;97:19;	238:4
108:1;110:14,21;	Matthw
215:23	14:11
markets (18)	Matt's (
26:20;27:10,21;	30:11
28:13;29:12;34:16;	matures
35:22;37:7;57:15;	139:14
61:20;68:12,14;70:9;	maturit
173:1,4;184:14;	44:21
198:22;232:12	maximu
Marni (2)	167:12
18:7,8	may (21
mass (3)	5:24,2
199:10,10;204:14	7:15,2
massive (2)	24:13
196:7;203:10	80:21;
matches (1)	132:25
236:23	230:6
material (19)	Maybe (
18:21;47:15;49:7;	10:10
50:19;80:14;81:7;	16;19:
87:16;88:12;92:15;	7;32:1
96:25;97:18;98:14;	40:25
145:10;151:21;175:5;	50:4;5
214:13,20;223:23;	8;60:9
224:18	76:13
material-based (1)	100:3:
134:18	122:22
materials (48)	164:7
39:16;47:2,4;49:9;	180:12
64:21,25;81:9;84:7,9,	187:24
23;85:1;88:6;92:4;	202:23
94:13;95:18;96:23;	221:2:
115:25;116:4;124:21;	McClus
132:17,21,24;133:23,	56:11
25;134:2,3,18,21;	MEA (1
142:8,18;144:23;	25:15
147:18;148:17;152:8,	meadow
	158:22
16;162:4,11;166:17,	
23;167:5,24;171:16;	meal (6)
172:3,5;184:18;	62:12
195:24;205:2;223:3	112:12
math (1)	mean (3
213:18	17:22
mating (3)	71:15
88:23;89:4;224:1	103:25
matrix (2)	109:19
210:15;212:16	116:2:
Matt (13)	121:1
91:17;99:15;	132:2
106:19,20,21,25;	139:20
109:8;110:22;111:3;	149:12
113:15;114:14,17;	169:2
197:17	174:16
matter (9)	196:8
31:6;61:14;64:24;	3;226
76:21;90:15;100:24,	meaning
25;102:23;103:7	147:1:
matters (1)	meaning
19:21	54:9;6
Matthew (11)	meaning

19:5,6,6,10;30:6,8,	82:18
9;38:11;73:12;79:3;	means (8) $2(.20)(17.70.24)$
238:4 Motthw (1)	36:20;66:17;70:24;
Matthw (1)	121:17;147:23,23;
14:11 Mattia (1)	185:5;216:24
Matt's (1)	meant (2)
30:11	21:15;170:2
matures (1)	meantime (1)
139:14	54:13
maturity (1)	measurements (1)
44:21	235:3
maximum (1)	measures (2)
167:12	207:14;216:2
may (21)	measuring (2)
5:24,25;6:10,12;	213:25;235:1
7:15,20;8:3,17;23:12;	meat (1)
24:13;54:15;55:10;	196:13
80:21;85:9;96:7;99:1;	meats (1)
132:25;152:2;221:12;	80:19
230:6;234:13	mechanism (1)
Maybe (48)	220:4
10:10;17:23;18:6,	mechanisms (3)
16;19:6,7;28:17;29:6,	189:12;220:1;221:1
7;32:19;37:1;38:1;	media (2)
40:25,25;42:4;43:8;	44:11,13
50:4;51:21,23;52:7,8,	medical (1)
8;60:9;68:7;75:8;	96:11
76:13;91:14;99:7,11;	medication (1)
100:3;109:11;111:23;	159:23
122:22;128:9;146:17;	medications (1)
164:7;165:17;171:5;	159:15
180:12;181:12,13;	medicine (2)
187:24;197:22;	69:24;159:15
202:23;204:4;205:15;	meditating (1)
221:25;225:9	41:14
McCluskey (1)	meet (13)
56:11	40:10;45:6;84:3;
MEA (1)	119:8;120:15;147:24;
25:15	151:20;152:13;
meadow (1)	159:23;162:16;216:9;
158:22	227:6,18
meal (6)	meeting (22)
62:12;108:8,8,19;	5:7,11,14,16;6:25;
112:12;113:21	7:8;9:7,9;40:12;
mean (38)	43:18;45:11;84:6;
17:22;69:10,10;	158:6;171:15,19;
71:15,22;72:16;	172:3,4,6,7;177:5;
103:25;105:23;106:7;	194:11;214:15
109:19;110:11;114:5;	meetings (6)
116:25;117:12,20;	9:9;66:9;139:1;
121:10,10;128:12;	175:14,23;200:22
132:21,22;134:16;	meets (6)
139:20,21;140:13;	50:6;91:10,10;
149:12;150:1;151:11;	153:22;161:13;
169:23;171:19;	195:15
174:16;175:22;178:1;	megaphones (1)
196:8;201:20;205:1,	70:2
3;226:5;230:11	melamine (6)
meaning (1)	112:10,15;113:10,
147:15	12,22,22
meaningful (2)	meloxicam (8)
54:9;68:22 meaningless (1)	20:5,8,10,14; 158:14;159:13,21;

160:2 **MEMBER (163)** 10:16,18,23,25; 11:3,5,8,10,13,16,18; 14:24;19:20;25:3; 26:12;29:2,25;35:7; 36:15,18;38:3;44:4; 58:17;60:14;66:11; 67:9;69:7;70:5;71:11, 20;72:15,16;76:1,6, 12;77:2,19;83:9,14, 20;86:14;89:20;90:3; 94:6;95:5,9,12;96:18; 102:7,10,16,19; 104:25;105:19; 106:12;111:2,6; 113:5;114:14;115:21; 116:8;117:5,8; 118:15;121:6,20,25; 122:16;127:5;128:5, 11;133:13;134:9; 135:2;138:9;139:5,7, 12,19,25;140:8,12,15, 21;141:9;144:8; 145:9;151:4;152:17, 20;153:3,9,14; 154:23;156:8;157:12; 162:25;166:14;168:6; 169:18;170:1,16; 175:4:176:19:177:1, 12;178:9,11;182:1; 184:7;185:1,15,23; 187:7,14,17,19;191:1; 192:4,7;193:11; 200:7,13,16;202:3; 204:1,19,22;205:5,20; 206:5,10,13,23;209:7; 210:2,15,24;211:6,20; 217:16,22;218:8,12; 219:4,8,15,20,23; 220:24;221:8,18,21; 223:5;227:24;229:23; 230:3,14;231:4; 233:15;236:5,11; 237:19 members (51) 6:3;8:16;10:2; 12:19;13:9,11,18,19; 14:24;15:3,13;16:23, 25;17:2;22:15;34:20; 43:18;44:18;45:1,5; 64:2;67:22;79:17,18; 89:13;102:1;114:24; 121:15;123:17;132:7; 142:19;143:3,20; 145:2,6;155:12; 158:4;166:5,13; 170:14;171:19; 183:25;189:10,20; 190:5,13;192:1; 195:11;210:18;236:2; 239:2 members' (1)

- Vol. 1 April 23, 2024

155.12

155:12
membership (3)
14:21;55:16;155:9 Menes (9)
38:13;43:8;45:17,
21,23;48:19;49:13;
50:12;52:17
mention (7)
46:2,3;78:2;130:23;
144:11;145:22; 164:14
mentioned (25)
16:22;26:23;29:5;
40:23;48:8;49:5;
50:17;57:8,12,18;
77:3;109:10;126:1; 150:22;151:25;
150:22;151:25; 159:16;179:11;186:8;
10;204:4;218:17;
228:6,18;229:23;
230:19
mentor (1)
33:7 montors (2)
mentors (2) 26:5,5
message (3)
7:20;169:3;194:17
messages (2)
9:16;194:17
met (4) 37:10;45:7;183:17;
214:4
metabolites (3)
95:1,13;226:14
methanol (1) 110:1
methionine (7)
42:18,21,22,24;
43:2;197:3,6
method (2) 54:17;103:19
methodologies (2)
49:24;124:1
methods (31)
54:20,25;55:4,13;
58:23;59:13,19,22; 60:12;92:7,11,16;
98:7,13,13,15,25;
99:2;103:22;119:23;
120:1,5,10;121:8;
124:11,22;143:10;
144:23;145:1;159:6; 208:11
Mexico (1)
230:24
Michael (23)
30:16;32:18,18,19,
20;38:11;73:12,15,19
/ 1°/1°/4°/n°/°///
23;75:24;76:2;77:10, 20,22;78:25;79:2;
20,22;78:25;79:2; 115:18;117:8;118:19;
20,22;78:25;79:2;

141:25:146:6.11; 30:21 234:13.16.18.21.21: Milo (11) 236:10.16:237:24 Michelle (15) 5:3;8:23,24;9:21; 10:1,12;12:4;13:17, 20;44:12;121:23; 146:21;187:2;210:16; 215:4 194:11Michigan (1) mind (8) 196:15 micro (1) 217:3 micro-cause (1) 154:10 132:19 microorganisms (2) 119:3,24 Microplastic (1) 85:13 microplastics (2) 84:10;167:20 mine (1) middle (3) 100:18 73:6,8;203:15 mineral (1) mid-scale (1) 93:12 65:19 Midwest (1) 26:19 94:7 minimal (1) mid-west (1) 75:8 56:4 might (30)7:13:12:13:13:7; 37:10 25:13:30:7:41:12: minimis (1) 45:10;65:8;67:1;77:2; 208:17 78:17;86:7,14;98:15; 122:21,21;123:7; 221:1 126:16;141:5;165:20; minute (1) 190:20;191:24;192:2, 66:24 17,18;210:2;222:15: minutes (8) 225:16;231:11; 234:10 mike (35) 7:23;8:19;10:1,6; miracle (1) 12:1;14:2;38:13;43:8; 69:24 45:17,19,23;48:2,4; 9:22 53:4;81:21;99:16; 106:19;114:19,20,22; 115:23;118:16;166:3; 123:22 170:23;171:5,7,8,11; miss(2)173:18,18,20;175:4; 177:12;178:7,14 missed (3) Mike's (1) 192:9 238:2 mildew (1) missing (5) 224:11 milk (3) 21:21;85:14;158:8 229:20 mill (1) mission (5) 107:24 million (2) 166:12:169:19 millions (1) 101:8 148:6 mitigate (3) millionths (1)

220:22 mitigates (1) 182:21;188:4; 141:2 194:24,25;195:1,3; mixed (4) 196:25;197:1,2,13,25 Milwaukee (8) mixtures (1) 5:15,16;44:4;45:7; 39:13 Mm-hmm (3) 56:11:170:14:178:8; 28:21;174:13; 236:10 69:9;115:14;116:1; model (5) 149:13:174:15:181:7; 186:24;212:13 163:19:169:15 mind-blowing (1) moderated (1) 205:3 modernizing (1) Mindee (12) 10:24;11:1;58:16, 129:7 16;60:15;66:10;69:5. modification (1) 17;133:12;162:24; 156:9 211:5;212:8 modify (1) 156:5 MOFGA (4) 168:19 minerals (5) MOFGA's (1) 42:19,23;43:1;93:8; 170:10 mom (1) 206:10 moment (3) minimally (1) 60:9,10:212:25 momentum (1) 18:20Monday (1) minimize (1) 44:4money (2) 75:22;141:4 monitor (1) 123:21 8:7;44:10;104:13; monitoring (2) 109:6;157:18,23; 123:22:207:22 177:8;238:25 monoculture (2) 68:4:71:4 Montana (7) Mirenda (1) 75:10,20;76:4,8; 77:17;78:17,23 Montanna (1) mislabeling (1) 73:25 month (1) 126:25;174:21 12:5 months (3) 222:15;225:16; 137:6.25:176:17 moral (1) 136:13 53:7;126:21; moratorium (1) 138:24;226:16; 44:20 more (169) 14:17,24;30:23; 46:11;155:10 misunderstood (1) 161:9;200:19;

48:24:52:15:54:5: 56:21;58:1,4,8,9; 60:3:65:11:66:7.7; 68:22;70:7,14,15; 65:11:120:17,18,19 72:24;76:13;77:5; 78:25;80:2,21;90:2, 14;91:4;95:3;101:15; 102:20,25;104:22; 105:13,14;110:19,25; 111:21;115:10,11; 116:14;117:11,23; 56:14:116:19,22; 121:9,12;122:1,5,7; 125:5,25;126:1; 127:8;130:13;132:17; 133:14;136:23; 138:11;140:24; 141:20;145:2,18,23; 146:14;147:22; 153:16;158:19; 159:17,24,24;161:4; 162:13,16,20;163:7, 16;164:19,20;166:10, 163:20;166:7,16: 13;167:4,8,19; 170:13:171:24: 174:11;176:1,2,9,23; 181:3;183:16;184:1; 185:3,7,15,18,20,21, 24;186:11,13,18,20; 187:9,10,10,10;190:8; 191:7:192:21:193:6, 6,10;197:22;199:15; 201:24:202:1:203:18. 21;211:14,15;212:20, 23;214:4,16;215:1,2; 216:2,3,15;217:3; 218:1,18,18,18,21; 219:17;222:6;228:8; 229:10:232:15:236:6 Moreover (1) 183:25 morning (32) 10:5,8,9,16,17,18, 19,24,25;11:1,3,4,5, 10,11,13,14,16,17,18, 19;12:4;19:17;30:17, 19;32:23;33:1;43:13, 13;45:6,22;123:16 **MOSA (6)** 207:7;208:20; 209:9,15;213:17; 214:10 MOSA's (2) 211:7;212:11 most (26) 15:17;28:14,15; 29:10;39:11;43:13; 53:16;68:11;96:12; 7:13;12:17;16:2; 17:9;18:6;20:12,12, 131:19;132:7,15; 20;24:10;25:6,11,14, 135:6;136:24;143:20; 18,20,25;26:9,10; 150:18:156:1.23; 28:9;31:12,13;35:1; 164:10;174:20; 37:13:38:21.24:40:7; 191:24;192:2;206:1; 43:3,19,24;44:7;45:3; 209:2,10;211:3

- Vol. 1 April 23, 2024 mostly (4) 17:4;27:21;95:19; 116:18

moth (2) 88:20;224:2 Mother (1) 12:17 moths (1) 223:25 motion (1) 143:2 motivation (1) 46:17 motivations (1) 37:14 mouth (1) 176:21 move (20) 15:23;34:15;44:22; 49:25;54:7;56:20; 58:3:59:4:64:10; 68:25;73:3;97:11,15, 21;103:21;129:4; 149:13;158:25;171:5, 25 moved (1) 74:2 movement (12) 15:14;21:15;37:23; 56:7:59:9.24:64:11, 12,19;65:2;118:12; 188:14 movements (2) 198:17.22 moving (10) 55:16;58:24;59:2; 73:4:87:1:116:16; 120:25;130:10; 236:14.24 moxidectin (2) 160:8:207:18 Mover (9) 128:22;135:18; 141:25;142:3,4; 144:25;145:25;146:4; 183:2 **MPN (6)** 31:12,13,18,20,22, 23 MROs (3) 47:23:48:9,22 much (110) 16:19;24:25;25:3; 26:12;28:15;30:2; 31:18;32:16;35:4; 38:3;43:7;45:14;48:2; 50:18;53:12;54:5; 55:17;56:2;57:5,17; 58:17;60:14;62:18; 66:11:76:1:77:19: 79:1,15;81:13,23; 83:6,15:86:22:89:14, 17;91:12;94:3;103:4;

- Vol. 1 April 23, 2024

Spring 2024 Meeting	Γ	I		April 23, 2024
104.25.106.10.100.5.	142.17.195.10	6.107.1 1 16.200.5.	65.25.66.7.60.1 15.	norman (1)
104:25;106:10;109:5;	143:17;185:10	6;197:1,1,16;200:5;	65:25;66:7;69:1,15;	newer (1)
116:1;117:5,17;	NT	209:6;217:15	72:7;76:13;77:5,16,	118:3
118:16;121:3,16;	Ν	Nate's (1)	17,24;78:8;108:16;	news (1)
122:4;125:15;126:16;		212:12	114:11;117:1,1;	182:3
128:5,16;131:10;	NAFA (1)	National (43)	126:1,2,4;128:14;	next (78)
132:17;135:10;	152:2	5:4,5;8:20,25;9:9;	130:13;137:2,8;	5:15;7:8,12,24,25;
140:20;144:5;146:2;	name (77)	12:2;15:1,20;16:6;	143:11;144:16;	13:14;14:12;16:16;
150:11,23;153:10,14;	7:9,13,17,25;8:5;	20:5,11,18;32:14;	145:16;151:18;	18:21;19:5,9,11;
154:24;156:18;157:9;	13:15;19:14;22:11,	40:5;53:14;54:2;55:9;	153:21;154:2;164:18;	20:14;22:9;28:14;
159:19;160:12,13;	13;30:19;32:25;33:1;	64:20;68:14;71:7;	168:11;169:20;	30:15;32:18;38:9,12;
162:25;163:19;166:2;	34:6;35:3;38:17,19;	74:6,8,14,17;85:4;	173:25;175:8;176:15;	43:7;44:15;45:17;
168:2,3,16;170:11,17,	43:10,13;45:19,23;	129:11;130:25;138:2;	178:11;186:8;188:19;	53:6,8;54:22;59:10;
21;175:13;182:1;	46:17;53:10;60:19,	142:25;148:18;	199:15,19;201:22;	60:17;63:18;67:10;
184:24;188:2;190:21,	21;63:22,24;73:14,17,	154:19;155:20;156:3;	203:4,5;207:13;	81:17;83:16;87:4;
23;191:1,13,14;192:4,	20,23;79:13,15;80:2;	157:5;166:14;167:25;	213:20;214:4;216:17;	90:6;91:14,16;99:15;
5;194:23;196:25;	81:19,21;87:6,9;	173:14;184:18;188:9;	217:20;218:2,17;	106:19;114:19;
197:25;206:6,14,25;	91:20;99:19;100:5,7;	223:23;224:18,24;	225:3;227:12;232:3,	118:21;123:11;
209:12,14;211:6;	106:23;114:21,22;	227:14	12;233:5	128:21;129:8,12,18,
215:2,5;216:16;	118:23;128:23;129:5;	nations (1)	needed (9)	20;130:2,14,23;
217:17;219:14;222:7;	135:20;142:1,4;	217:11	61:3;84:17;138:25;	135:17;141:24;
225:2;227:22;230:4;	146:24;150:16;155:4,	Natural (11)	145:7,14,17;163:22,	142:18;146:5,11;
232:3,13;235:23;	5;158:1;160:17,19;	67:20;68:5;70:19;	23;193:8	157:24;160:15;165:5;
236:2	171:8,10;178:19;	71:14;88:24;143:4;	needing (2)	166:2;170:14,23;
		156:20;159:10;197:6,	39:16;190:17	
mulch (4) 90:14;91:4;131:21;	182:22,25;188:6,8;		needle (5)	172:9;182:20;188:3, 10,23;189:5,16,22;
211:25	195:1;198:6;207:6;	7,12 nature (5)		
	210:8;215:7,9;		97:11,15,21;	194:24;198:3;207:3; 209:19;215:6;216:20;
multi-family (1)	222:17,20;225:18;	37:25;83:24;98:15;	103:21;149:13	
147:10	231:17,18;234:20; 235:13	134:4;215:15	needs (18)	222:9,16;225:9,14;
multigenerational (1) 84:16		Neagu-Reed (13)	10:11;19:22;24:14;	231:8
0.112.0	names (2)	170:24;178:18;	52:7,17,22;53:2;	nice (3)
multi-legal (1)	13:3;19:13	182:20,24,25;185:9,	69:13;72:5,6;91:10; 06:11 17:120:15:	180:16;205:20;
148:7	Nandwani (8)	13,19;186:15,25;	96:11,17;120:15;	237:6
multi-modal (1)	11:4,5,8;227:24;	187:3,12,22	152:5;188:15;218:3;	Nicole (10)
159:1	229:23;230:3,14;	near (18)	226:17	157:25;160:15,17,
multiple (5)	231:4	54:1;146:6,12,22;	negative (5)	19;162:23,25;164:22;
24:4;159:17;176:4;	nanoparticles (1)	147:1,1;149:7,10,15;	31:19,21;105:12;	165:23;166:1,2
218:2;221:3	98:7	151:6,7,16;152:19,23;	173:1;196:1	Nicole's (1)
municipalities (1)	nanotech (4)	153:8,11;154:4;155:1	negatively (3)	166:22
153:16	99:4,9,20;100:4	nearing (1)	131:5;161:1;184:3	Nigeria (1)
Musgrave (4)	nanotechnology (2)	61:16	negligence (1)	63:12
215:7;222:15,19,20	99:12,24	nearly (2)	226:4	nimble (1)
mushroom (1)	narratives (2)	54:4;92:5	neighbor (1)	58:8
208:22	69:23;188:19	neat (1)	91:19	nine (1)
musical (1)	narrow (1)	26:7	neighborhood (1)	215:12
68:21	216:9	Nebraska (9)	152:3	nitrate (3)
must (16)	narrowly (1)	100:9;104:2;198:9;	neighboring (2)	50:21;51:3,5
13:3;39:1,5,20,21;	124:19	215:11;231:19;	167:10;228:12	nitrates (3)
83:24;84:1,3,13,19;	nasty (1)	234:22,23;236:12,19	neighbors (6)	80:10,19,21
130:18;159:9;162:17;	112:13	necessarily (5)	26:2;28:16,19;	nitrogen (20)
183:16;217:6;227:6	Nate (52)	76:14;95:20;97:15;	102:21;105:5;228:17	50:8,9,17,18,19,20,
mute (3)	10:9,9,14;11:11,14;	111:22;220:15	Neither (1)	20;51:1,1;53:22,25;
5:21;8:2;188:2	35:6,17;41:18,18;	necessary (8)	172:20	54:2;63:8;79:24;80:7;
mute/unmute (1)	49:16;50:13;51:19;	64:9;89:3;125:13;	nervous (1)	90:11,16;132:4;
8:4	70:4,18,25;73:14;	129:23;158:15,23;	145:11	166:16,19
muted (3)	75:24,25;83:8,8;	160:10;216:8	net (1)	Njoume (5)
66:21,22;171:2	86:13;90:4;94:4;	necessity (5)	82:2	43:8;45:18;73:13;
Myers (12)	96:21;102:5;104:18,	143:14,14,18;	new (21)	79:4;238:8
19:12;22:10,13,13;	24;117:7,19;128:8,	207:25;215:22	18:21;20:11;29:21;	Noah (2)
25:12;27:6;28:12,23;	10;131:11;139:18;	need (68)	33:3;44:20;54:5,13;	45:6,7
29:1,9;30:1,4	140:7;148:25;164:21;	16:6;21:8;27:2;	67:5;74:8,19;103:20,	noble (1)
myself (8)	168:4,4;170:19;	32:8;43:23;55:13;	23,23;117:15;151:7;	33:13
56:9;66:24;67:18;	175:3,21;176:20;	56:18,20;58:3;59:7;	179:16;189:20;194:6;	nobody (1)
109:1,19;135:13;	180:12;181:25;187:5,	60:3,5;61:22;62:9;	199:24;201:1,19	145:16
	1	1	1	1

Burke Court Reporting & Transcription (973) 692-0660

Spring 2024 Meeting	1			
NOC (14)	92:2,24;93:2,18,19,	noteworthy (1)	107:10;184:16	5:14;195:21
53:14,19;55:1,7,20;	21;116:5;123:18;	208:20	objectives (1)	officially (1)
			0	
58:6,18;59:16;	124:9,16,17,18,25;	notice (1)	75:12	5:6
188:10,11;189:17;	125:13;126:19,22;	172:2	obligations (1)	offline (1)
191:2,17;192:1	129:8;152:9;160:22;	noticed (2)	215:19	95:7
NOC's (2)	161:13;166:18;	204:22,24	obnoxious (1)	offput (1)
55:16;57:14	172:19,20;176:11;	noticing (1)	14:5	116:15
nominations (1)	189:5,14;190:14;	204:7	observation (1)	offset (1)
178:5	198:10;199:7;208:14,	notify (1)	201:7	160:10
non (1)	21;226:20,22;233:4,6	39:23	observations (1)	often (9)
52:12	NOP's (3)	noting (1)	212:23	17:18;37:25;68:17;
nonagricultural (1)	64:7;93:13;124:8	92:5	obtained (1)	88:19;159:20;171:17;
93:20	nor (2)	notion (1)	220:11	214:20;216:8,18
non-certified (1)	172:20;208:5	83:25	Obu (1)	oftentimes (1)
195:11	no-rinse (1)	novel (1)	9:22	114:2
non-certifier (1)	89:12	69:19	obvious (1)	Ohio (5)
14:23	normally (1)	nowhere (1)	129:13	22:14,25;26:8;
none (1)	86:3	27:24	obviously (8)	195:4,8
110:12	North (4)	NPEs (4)	27:6,7;86:4;113:11;	oil (17)
non-farm (1)	73:24;75:9;76:3;	42:9,11,13,14	148:4;149:23;152:24;	62:12;120:20;
195:11	191:17	NRCS (9)	153:15	155:9,14,17,21,23,25;
non-film (1)	northeastern (1)	74:6,8;76:13;77:5,	occurs (1)	156:2,5,9,11,15,17,
149:3	22:25	6;102:21;138:12;	120:20	19;157:5,6
non-GMO (2)	Northern (2)	139:5;140:17	oceans (2)	oils (12)
69:10,15	74:1;107:24	NRGC (1)	156:20,21	88:8,11,12;89:21,
non-Hodgkin's (1)	Northwest (3)	154:12	OFA (20)	22,23;156:24;223:3,
80:12	87:10,12,15	NSP (1)	22:20,22;33:6;	17,19,20;224:14
non-issue (1)	NOSB (82)	114:23	43:18,23;44:12,15,18,	Oklahoma (2)
127:17	5:6;8:15,16;13:11,	NSS (1)	25;45:1;64:3,14,23,	114:23;117:12
nonlinear (1)	19;15:1;17:19;31:25;	91:22	25;65:4;66:25;	old (5)
235:8	32:13;39:13,25;40:1,	nuance (1)	172:19,20;189:7;	117:22;130:12;
non-members (1)	11;43:16;44:5,22;	149:16	191:17	131:25;168:20;
17:4	45:24;53:25;54:11,	number (10)	OFA's (5)	218:25
nonorganic (3)	18;57:8;58:22;59:8;	7:18;27:13;30:11;	22:23;65:24;66:20;	Olson (12)
84:25;101:21;	60:2,12;64:6;65:10;	33:19;47:1,7;94:10;	191:2;197:3	160:16;166:3;
119:17	68:2;79:18;83:5,20,	142:18;146:20;	off (18)	170:23;178:16,21,21;
non-organic (1)	20,23;84:19;85:7,7,	215:13	6:8;7:4;12:1;16:19,	181:4;182:15,19;
52:11	16;89:16;92:2,13;	numbers (3)	20;18:11;33:21;79:9;	222:16;225:11;
non-organically (2)	93:25;96:2,4;114:25;	131:22;146:20;	85:4;94:8;102:22;	238:20
155:18,25	115:5;119:9;120:24;	167:10	116:16;144:5;157:20;	Omega (1)
non-pesticide (1)	155:14;157:4;158:13;	numerous (2)	178:7;201:25;205:6;	155:8
50:1	160:22;165:5,8;	21:2;55:7	218:9	Omega-3 (2)
nonprofit (3)	166:5,18;167:22;	nutrient (2)	offer (10)	156:23;157:3
14:17;70:8;168:9	171:14;172:15;	93:12;94:7	15:3;16:12;27:22;	Omega-3s (1)
nonretail (2)	176:10;178:12;	Nutrients (10)	160:1,2,7;171:24;	155:7
21:14;22:4	183:22;184:17;	93:8,14,19,24;	173:5;197:4;214:25	omnibus (2)
non-synthetic (6)	188:12,12;189:5,10,	95:16,23;96:2,3,13,16	offered (3)	53:22;166:19
54:2;85:22;86:5;	13,14,18,20,24;190:1,	nutrition (1)	23:7;147:8;190:14	OMRI (1)
120:15,17;132:21	1,10;191:23;192:2;	96:10	offering (1)	129:10
non-synthetics (1)	196:18;199:12;209:4;	nutritional (1)	150:2	onboarding (1)
85:21	222:25;227:12,17	96:9	offerings (1)	189:20
non-toxic (1)	NOSB's (3)	nutritive (1)	119:8	once (12)
196:4	39:7;156:4;191:25	90:16	offers (2)	5:23;20:25;23:8;
nonylphenol (4)	note (9)	Nyirenda (3)	43:20;68:23	28:13;56:18;68:18;
42:10,11;84:12,14	5:7;7:15;11:20;	87:6;91:16;238:12	45:20,08:25 off-farm (1)	112:17;113:25;
42:10,11,84:12,14 nonylphenols (1)	44:2;45:15;86:10,17;	07.0,91.10,230.12	204:6	112:17,115:25, 116:24;137:3;161:11;
84:14	146:1,11	0	office (8)	227:16
84:14 NOP (55)	noted (7)	U	26:17;29:3;74:25;	one (121)
6:2;7:7;9:20;11:21;	7:6;65:10;69:23;	ooth (1)	77:4,8;78:13;138:13,	
		oath (1)	17	12:7,14,15;15:8;
16:11;19:18;20:6;	82:2;92:19;130:19;	79:18		18:1,13;23:9,17;
38:22;39:5,13,21,23;	211:9 notes (3)	oats (1)	offices (2) 74:15,17	24:13;25:14,20; 27:19,20,25;28:2;
47:17;60:3;65:16,21;	notes (3) 85:20 24:164:23	61:7 objective (2)	,	
66:5;68:2;85:8;89:13;	85:20,24;164:23	objective (2)	official (2)	29:13;30:11;36:24;

38:23:42:18:46:12; 238:25 47:1,15;50:8,13; on-screen (1) 54:22;55:8,21;56:16, 7:20 17;59:15;63:3;68:7; onset (1) 70:11;71:23;74:21; 212:4 75:5;76:21;77:3;78:2; onsite (2) 79:3,20;84:6;85:18; 161:10;237:6 90:9;94:4,8;101:10; onto (4) 103:16,17;107:24; 34:8;39:15;171:5; 110:25;111:7;113:5; 237:9 119:14;121:15; open (8) 122:13:129:20:130:1, 9:14;18:19,22; 16,23;131:14;132:6; 29:24;59:25;154:5; 165:18;207:24 133:16;135:3;136:11; 139:25;140:1,9; opening (2) 141:15;143:19; 12:3;60:11 146:14,19;151:7,17; operating (7) 25:16;47:11;64:13; 152:24;154:6,16; 163:9;164:15;167:8; 65:17;177:2;218:2; 168:4;170:13;171:13, 231:23 25;173:5;174:14,18; operation (7) 177:16,16,16,24; 78:6;92:6;100:10; 178:17;179:13; 140:22;142:17;210:6; 180:22;184:7;188:17; 216:9 190:1,9;193:4; operations (43) 197:17;198:17; 21:7,10,12;44:21; 65:6,15,19,22;88:2; 200:17;203:16; 211:15;213:4;214:22; 92:5;94:15;116:15; 215:12;216:1;220:7; 125:4;126:17,23; 221:13:222:14; 128:13:143:12:147:6; 225:12,15;229:10,24; 151:9,24;161:24; 230:23:232:20: 166:12;168:14; 234:14:236:25:238:2 183:13:188:9:207:9; one-eighth (1) 208:15;209:2,9,10,19; 133:3 210:1,9;211:2; one-quarter (1) 212:15,16,18;213:5,9, 133:3 17,19;215:15;233:13 ones (13) opinions (1) 16:25;35:20;48:6; 190:6 91:1:104:4:110:1: opportunities (4) 164:16;174:4,20; 43:24;107:23; 194:2,7;199:11; 125:2:172:8 201:17 opportunity (33) 14:25;16:12;19:18; on-farm (1) 21:17 22:17;33:9;43:20; ongoing (1) 45:12;46:10,13; 83:3 63:23;78:11;81:24; onion (1) 82:5,10,11;83:4; 108:3 89:15;92:3;94:1; online (4) 105:4;123:18;126:18; 5:17;15:5,7;16:12 132:12;139:15;142:7; only (37) 143:9;144:3;158:13; 5:18;8:2;13:19; 166:15;195:9;207:8; 224:25;225:20 24:13;31:2;34:6; 46:21;48:9;49:20; oppose (1) 61:6;68:4,5,7;72:11; 166:22 optimize (1) 75:4,11,20;84:22; 85:21;125:12;126:22; 143:10 129:4;144:15;156:21; option (11) 164:4:169:5,21; 16:15;22:17;89:11; 172:3,5;189:11,11; 97:5;152:4,10,13; 196:17;209:2;210:11; 181:12,18;197:6,7

7:22:39:5 optionality (1) 220:12 options (4) 97:7;149:25;159:6; 164:12 OPWC (7) 171:12,23;172:9, 15,25;173:8,22 Oracle (1) 150:8 oral (7) 16:14;20:14;144:4; 156:6;168:18;180:15; 186:3 orbit (1) 153:18 order (8) 5:7;13:13;23:12; 62:9;116:23;143:10; 147:24:214:5 Oregan (1) 225:21 organ (1) 84:16 Organic (527) 5:4,5;9:1,10;12:2,6, 9,10,16;14:18;15:1, 13,15,16,20,22;16:1, 4,8;17:24;19:24,25; 20:3,4,4,8,11,13,19, 24;21:3,3,15,16,19; 22:1,16,20,22,24; 23:1,3,5,10,12,15,19, 20,24;24:1,9,11,13, 17,19,24;25:6,17; 26:2,9;27:10;28:8; 30:20,20,21,22,24; 31:1,2,4,6,7,9;32:6,7, 11.12.14:33:2.5.5; 34:1,13,14,20,23,23; 35:12,13,14;36:3; 37:8,18,23;38:24; 39:4,14,20,22;40:2; 42:9;43:14;44:3,7,17; 45:4,23,25;46:1,13, 17,20;47:10,12,13,24, 25;48:1;52:12,21,24; 53:14,15,16,18,18,22; 54:2,8,8,10,15;55:23; 56:3,7,12,12,15,20; 57:7,13,15,21,22,24; 58:9;60:1;61:5,5,10, 12,15,20,21;62:16; 63:8,25;64:4,9,11,11, 12,13,14,17,19,20; 65:2,3,15,25;68:4,9, 13,16,22,24;69:2,10, 14,15;70:14,21;71:2, 3;72:1,13,18,21,25; 73:1,23;74:2,6,8,9,9, 9,19,22;75:3,6,7,12; 76:9,14;77:6,9,13;

80:4,8;81:11,23;82:1, 1,6,23;83:1,3,22,25; 84:8,10,12,13,24; 85:1,7,12,15;87:13, 20,23;88:1,11,18,22; 89:9,11;90:15;91:5, 23;93:7,11,21;95:2, 15;96:9,23;97:5,7,19; 100:9,16,18,23,24,25; 101:3,6,14,17,18,18, 19,22,24;102:12,13, 17,23,23;103:6,7; 104:3,4,9;107:1; 108:4,11;110:16; 115:6,7;116:25; 117:23;118:12;119:5, 7,8,12,15,17,19,20,24; 120:11,13;122:6,11, 13;123:14,15,23,23; 124:7,14;125:10; 132:11,12;135:21; 136:1,3,4,4,6,6,16; 137:3,9,17,18;138:10, 15;139:24;141:1,4; 142:8,13,16,19;143:9, 25;144:23;147:8,16; 148:11,18,21;151:9, 10,14,20;152:21; 153:2,21;154:1; 155:19,20,22,23,24; 156:4,11:158:4,4,8, 14;159:5;160:3,20,21, 25;161:5,12;162:16, 20;163:24;164:16,19; 166:6,10,11,14,19,24; 167:6;168:1;169:2,2; 171:11,20;172:10,24; 173:1,4;174:11,23,24; 175:1,16,20;179:13, 16,23,24;180:2,5,8, 24;181:3,10;182:11; 183:5,13,15,18,20,21; 184:3,7,8,13,19,22; 188:10,13,14,15,17, 20;189:22;190:22; 191:3,8,18;193:5; 194:6,16,17;195:5,6, 12,16,20,22,23,25; 196:17,20,22,24; 198:12,14,17;199:20, 22,25;200:4,20; 202:9;207:9,12; 208:2,5;209:2; 215:15,20;216:23; 217:1,4,6,24;219:13, 14,24;222:20,23; 223:9,13,17,18,19,24; 224:1,5,10,15,18,24; 225:25;226:2,5,6,7,9, 10,13,14,19,21,23; 227:1,5,6,19;228:1,2, 3,7,9,10,22,23;229:7, 16;230:7,12,16,19,25;

- Vol. 1 April 23, 2024

231:19,20,24,25; 232:1,2,12,25;235:1, 2,16,18,21;236:12,15, 21;237:2 organically (7) 24:6;28:9;62:5,5; 85:3;106:4;194:3 **OrganicEve** (1) 79:16 organics (21) 21:22;30:23;31:2; 46:12;52:21;76:7; 79:20;85:5;105:3,4,8; 113:14;115:10; 117:18;142:14; 147:22;169:6;179:16; 196:6;223:6;232:9 organism (1) 98:23 organisms (3) 33:18;55:10;196:5 organization (6) 14:17;20:4;80:18; 155:6;168:15;195:10 organizational (1) 189:8 organizations (9) 44:17;47:15;49:8; 80:4;81:7;154:20; 157:2;189:15;191:21 organochlorines (1) 230:5 oriented-nature (1) 182:14 origin (3) 20:25;53:17;57:25 originally (2) 53:8:63:21 **OSP**(1) 65:12 others (4) 16:20;20:14;126:4; 198:18 other's (1) 191:2 Otherwise (6) 19:8;89:2;132:11; 167:24;171:12; 236:24 **OTI** (4) 137:15,16;138:15; 141:14 ought (1) 201:3 ours (1) 29:12 ourselves (3) 56:5;118:1;176:23 out (98) 10:21;13:21;15:6, 12,16;18:3;20:17; 24:13;25:6,17;29:16; 30:8;34:10;36:1,12;

221:25;236:17;

optional (2)

40:13:41:15:45:24; 22:24;23:6;24:5;27:4; 51:17.21:52:9:59:11: 31:15:39:8:40:2: 61:3,17,24;67:21; 54:10:59:19:60:4: 68:13;70:24,24; 72:15;81:4;82:3;93:9; 72:13;74:7;75:15; 103:3;107:18;108:23; 77:9;84:12;90:7;93:9; 128:6;137:11;142:10, 94:18;96:17,24; 12;147:8,9;159:15; 98:24:101:9:104:5: 168:20;180:2;181:5; 105:2,8;108:9,21; 182:5;183:3,5;201:8; 109:25;111:7;112:16, 207:8;218:4;228:20; 18;114:1;115:14,16; 236:17;238:25 overabundance (1) 117:12,25;118:13; 121:16;123:4;127:14; 110:18 132:21,24;134:2; overall (5) 136:7,12;138:25; 20:9;100:25; 205:22;211:1;214:2 139:2;140:20;150:24; 153:5;161:7,10; overblown (1) 162:12;163:13; 132:19 167:25;173:25; overdue (1) 174:16;175:13; 227:18 overlap (1) 176:20,21;177:20; 74:5 188:2:191:15:192:12. 23;193:12,20;195:19; overload (1) 206:14;209:23;211:8, 104:14 25;214:3;218:19; overlook (2) 229:20;233:1,12; 68:21;172:14 234:9;237:5 overly (3) 65:7;82:17;131:23 outbreak (2) 69:17;184:8 overnight (1) outcome (2) 106:1108:14:139:24 over-regulate (1) 208:25 outcomes (1) 196:11 over-regulated (1) outdated (2) 211:23 129:22:130:4 overseas (4) 56:6;221:11;235:2, outdoor (1) 7 21:20 outlet (1) oversight (5) 12:11;39:8;41:4; 117:1 outlets (2) 46:8:67:8 29:4;204:3 overstate (1) outlined (2) 143:17 217:10;218:2 overview (1) outlines (1) 78:20 overwhelming (1) 77:1 178:2 outlying (1) 126:17 own (14) 6:7,17;29:14,19; output (2) 36:8;190:15 51:20;109:17;110:5, outreach (4) 5;129:5;154:10; 17:11:64:8:74:23; 161:6;199:6;204:19; 209:1 77:7 outright (1) owned (1) 34:13 68:5 outside (9) owners (1) 17:5;149:21,22; 19:20 200:18;201:11; 203:18,18;218:23; Р 219:10 outstanding (1) **PAA (3)** 190:4 89:10;143:22,24 over (40) Pacific (2) 5:25;6:23;7:8;8:19; 87:12.15

package (1) 33:21 packaging (3) 67:3:147:20:195:15 packers (2) 87:11:89:15 packet (1) 171:15 packing (1) 89:9 page (1) 171:15 paid (3)26:5;27:17,23 pain (9) 20:2,9;133:15; 159:1,2,3,11,17; 236:25 painful (1) 158:23 pains (3) 101:23;134:5,6 palm (1) 87:13 panel (2) 194:12,20 paper (3) 130:16,19;212:1 papers (1) 225:23 paperwork (3) 23:12:65:10.14 paragraph (1) 211:19 parallel (1) 37:7 parameters (1) 218:23 paramount (1) 156:21 parasite (1) 208:7 parasiticide (1) 208:1 parasiticides (1) 160:8 Park (1) 150:9 parse (1) 94:18 part (44) 6:2;9:7;12:6;24:2; 26:8;27:16;30:25; 33:17:37:20:39:10: 42:12;44:1,15;48:22, 24;49:6;52:18;59:23; 62:16;64:6;85:1; 104:1;109:16,23; 110:20;122:18,18; 140:8;155:14;180:21; 191:16;197:20; 199:11:201:4,15; 207:11;208:6;209:21;

215:11;220:10; 221:22;223:20;230:1; 236:23 participant (4) 7:12,25;107:1; 111:17 participants (2) 7:15;112:4 participate (6) 9:3;16:13,15;22:22; 61:10;147:16 participated (1) 180:23 participating (1) 46:15 participation (4) 43:16;172:8; 189:25;191:7 particles (1) 85:13 particular (8) 18:9;50:19;56:20; 90:19;94:17;132:13; 205:4;224:14 particularly (9) 37:4;90:15;94:15, 15;154:22;189:4; 195:11;213:6;233:16 partly (3) 28:12;49:22;203:23 partner (3) 48:25:49:17:70:16 partnered (1) 32:3 partnering (2) 16:10:48:21 partners (5) 19:23;40:22;41:1,5; 64:22 partnership (3) 15:19;20:3;72:5 parts (6) 54:10;56:22; 109:16;205:2;236:19; 237:9 party (2) 112:18;183:20 pass (5)39:16;121:22; 134:20;187:2;215:3 passed (4) 53:25;75:2;85:7; 143:3 passes (2) 54:5;216:3 passing (1) 169:17 passion (1) 24:2 passionate (1) 24:1past (5) 23:6;53:14;54:10;

156:16;228:1 path (5) 60:4,5;113:19; 163:11:221:9 pathogens (1) 223:21 patterns (1) 202:9 Pause (3) 95:6;181:23:231:12 pay (6) 25:17;28:14;114:2, 3;150:12;198:23 paying (1) 217:18 payments (1) 81:4 pays (2) 141:6,7 **PCS** (1) 145:21 **PDS** (1) 193:20 pear (1) 88:25 pears (1) 87:11 peas (2) 100:11:198:21 penalize (1) 125:4 pendulum (1) 221:2 Pennsylvania (2) 29:11:76:15 people (55) 9:2;11:24;26:3,10; 27:17:28:15:33:23; 36:4,8;69:20;70:1; 74:11,17,20;75:16; 78:15,19;81:12; 101:11:102:21,24; 106:3,7,8;107:7; 110:9;115:4;131:19; 133:2;137:11,19,20; 138:17,20,21,22; 139:22;140:17; 141:17;145:17;147:9; 148:9;153:21;157:22; 165:1,2;169:11; 190:19;191:20; 218:25;221:16; 222:14:232:15; 234:23;236:3 people's (1) 104:9 pepper (2) 230:20,23 peppers (1) 230:24 per (10) 31:12,13,19,20,22,

23;120:17;140:1;

- Vol. 1 April 23, 2024

Spring 2024 Meeting	1		1	April 23, 2024
171:17;197:11	235:13	195:18,21;196:9,14,	pipelines (1)	148:9;167:20;173:9,
peracetic (2)	perspective (18)	17,21	143:24	148.9,107.20,173.9,
88:10;89:6	48:12,17;55:25;	PFSO (1)	pit (1)	play (5)
percent (35)	66:20;69:8,12;90:16;	196:7	21:20	6:11,12;21:13;
17:1;23:8;28:9,17;	98:6;105:2;110:6;	Pheromone-based (1)	pitch (1)	83:21;170:4
52:21;81:8;101:1,18;	112:9,24;116:15;	88:23	203:23	playing (13)
108:21;109:10;	122:20;181:1;186:19;	pheromones (7)	pivot (1)	23:19;41:4,16;
119:14;122:13;	215:14;221:24	88:8,18,21;223:3,	63:2	61:23;107:7,10;
161:19;179:18;180:1;	perspectives (3)	22,24;224:1	pivotal (1)	108:13;170:6;199:13;
183:21;199:17;209:9;	36:25;50:13;221:4	Phillips (10)	53:15	200:10;206:2;217:7;
212:13,14,17,21,24;	pervasiveness (1)	114:20;118:22;	pivots (1)	233:19
212.13,14,17,21,24, 213:4,5,14,15,16,17;	196:7	123:11,13,14;126:10;	237:9	Please (84)
213:4,5,14,15,10,17, 214:2,4,5;221:25;	pest (4)	127:11;128:7,17,20	PLA (1)	6:14;7:2,9;8:5,10;
214.2,4,5,221.25, 222:6;226:22	88:24;89:1,5;	philosophical (1)	150:25	9:17;13:15;36:17;
percentage (3)	207:22	163:8	place (13)	44:23;58:16;66:2,10;
16:23;111:23;	pesticide (17)	philosophy (2)	15:17;71:8;108:17;	69:5;77:21;89:18;
122:10	32:7;39:11,12;	20:24;71:17	109:2;111:8;112:25;	92:3;102:6;103:11;
perennial (2)	46:21;69:21;89:2;	phone (18)	116:16;169:1;199:20;	104:18,24;109:7;
33:14;132:10	115:11;124:19,25;	5:18;7:16,16,17;	207:22;217:5;233:5;	111:1;115:20,23;
Perfect (6)	125:25;213:10;	8:2;10:10;30:11;	237:1	116:7;117:7;121:5;
81:21;131:10;	225:25;226:5,7;	67:12;95:11;146:8,	placed (1)	127:4;128:22;129:12,
135:20;170:16;188:6;	228:7;229:11;230:17	16,17,18,20,20;171:1;	65:18	127.4,128.22,129.12, 18,20;130:2,14,23;
234:17	pesticide-free (1)	231:10;238:3	placenta (1)	131:11;133:12;134:8;
perform (2)	228:4	phones (1)	85:15	138:7;139:18;140:7;
72:21;150:21	pesticides (26)	5:22	places (10)	141:10;144:7;148:25;
performance (1)	32:4;36:5;38:20;	phonetic (5)	5:24;37:10;43:13;	151:2;153:13;157:5,
150:7	40:21;46:23;47:3,21;	80:12;197:17,18;	76:10,14;78:17;	11;164:21;168:5;
performing (1)	48:13;49:21,23;	207:19;225:21	117:11;133:4;150:8;	175:3;180:13;184:25;
159:1	83:20;124:18;166:17;	phosphate (7)	153:21	186:1;187:6,18;
perhaps (1)	167:24;210:12;226:3,	119:4;120:24,25;	placing (1)	188:6,10,23;189:5,16;
233:13	8,15;227:1,8;228:1,9,	223:4;224:5,6,7	79:21	190:25;192:6;193:24;
period (7)	10;229:1,6,12	phrase (1)	plan (6)	195:1;197:1;200:5,
13:3;24:5;75:2;	Pesticide's (1)	97:1	54:23;55:14;	15;205:19;206:12;
172:2,20;202:24;	41:21	physically (1)	126:19;137:16;	209:6;211:5;212:8;
204:15	pests (4)	219:1	207:22;236:23	215:3;217:15;219:18;
periodic (2)	63:11,14;88:19;	pick (4)	plane (1)	221:7,19;225:17,21;
52:5;208:2	224:3	57:20;107:19;	228:11	227:23;231:16;
permitted (6)	PET (1)	108:23;209:25	Planet (1)	233:14;236:4
13:5;93:11,25;99:8,	150:25	picked (1)	12:8	pleased (2)
8;167:25	petition (14)	149:16	planning (1)	15:3;16:5
peroxide (4)	20:6,6;46:3;84:7,	pickup (2)	98:3	pleasure (1)
88:9;223:3,9,11	19;121:1;133:17;	149:9;204:6	plans (1)	19:4
peroxyacetic (2)	142:22,24;143:2;	picture (5)	65:18	plenty (1)
142:22;143:16	144:12,17,20;145:3	59:3,12;64:1;	plant (17)	162:22
perplexing (1)	petitioned (3)	101:12;149:24	23:10;25:23,24;	plethora (1)
141:16	20:5;95:20,20	piece (13)	61:2;63:3,4;130:25;	51:10
persistent (1)	petitions (1)	49:12;57:22;58:12;	132:4;134:18;142:25;	PLU (1)
229:2	120:24	59:15;103:3;117:16;	143:15;223:10,14;	173:12
person (11)	Petrey (6)	132:13;148:2;149:19,	224:14,19;226:15;	plug (2)
5:15;13:14;17:11;	11:9,10;72:16;	23;153:4;192:20;	237:12	191:22;194:11
41:13;56:11;62:10;	144:8;145:9;221:21	205:4	planted (1)	pm (5)
90:6;177:2;196:22;	petroleum (1)	pieces (4)	179:4	79:9,9;157:20,20;
234:9,10	89:21	153:19,25;154:2;	planting (6)	239:4
personal (4)	petroleum-based (1)	205:8	33:15;138:2;145:7;	point (29)
6:18;9:16;13:6;	162:7	pile (1)	178:25;229:7;237:22	17:16;26:7;35:15;
35:20	Petruziello (7)	133:15	plants (2)	49:21;51:21;52:9;
personally (7)	182:21;188:4;	piles (6)	196:4;224:20	65:5;70:24,24;73:5;
105:16;144:25;	194:25;195:3,4;	150:14;151:19;	plastic (7)	83:25;99:14;105:7;
179:14;181:4,6,11;	197:15;198:2	152:1,3;164:15,15	66:19;134:3;	108:4;122:5;129:23;
214:22	PFAS (1)	pill (1)	147:11;150:23;	152:3;169:22;175:22;
Persons (2)	84:10	159:19	161:18;162:3,11	177:14;179:10;
13:3;193:21	PFOS (10)	pin (1)	plastics (6)	192:12;202:20;210:6;
person's (1)	166:24;167:8,9,16;	8:12	85:12;133:20;	217:2,12;218:22;
	l	1		l

10

7:7

29:8

219:9;231:25 pointed (3) 13:23;18:3;195:18 pointing (1) 191:15 points (8) 21:5:147:13: 191:20;207:9;215:20; 216:14;226:1;227:11 poisoning (1) 105:13 policies (5) 12:23;84:21;111:8; 126:16:188:25 policy (20) 9:5,11;12:23;22:21; 33:6;44:16;48:25; 55:13;63:24;65:24; 66:1;81:22;91:22; 149:19,24;183:1; 195:4,7:207:7:209:3 political (1) 68:25 politics (2) 115:9;116:6 pollutants (1) 154:16 pollution (1) 31:8 polypropylene (1) 150:25 pool(1)200:25 **pop** (2) 41:12;212:13 popcorn (2) 61:8:100:12 popping (1) 59:22 population (1) 147:9 port (2) 113:7;235:3 Porter (4) 135:18;141:25; 146:5;238:14 portion (5) 31:1;52:20;145:8; 202:17;227:25 Portland (1) 165:13 ports (1) 108:25 pose (5) 39:9;88:20;154:21; 180:22;226:8 posed (1) 180:21 posited (1) 31:10 position (11) 9:17;18:8;40:3,20; 57:14;85:5;194:10;

195:19:212:3:217:18; poultry (4) 220:14 20:12.19:43:4: positioned (2) 53:18 57:3;203:10 pounds (1) positions (1) 197:11 190:17 powder (5) positive (12) 79:23,23;80:5,10, 12:8;49:25;50:5; 21 109:24;111:16; powdery (1) 178:23,23:179:8; 224:11 201:13;226:10,21; Powell-Palm (47) 228:24 11:12,13:35:7; positives (1) 36:15;70:5;71:11,20; 51:14 72:15;76:1,6,12;77:2, possibility (7) 19;83:9,14;86:14; 104:25;105:19: 52:25;145:19; 173:1;195:14,17; 106:12;117:8;118:15; 197:4,5 128:11;139:19,25; possible (10) 140:8,12,15,21;141:9; 21:11;37:11;78:16, 168:6;169:18;170:1, 22;89:25;128:2; 16:175:4:176:19; 152:1:169:14:227:17: 182:1:187:7.14: 228:12 200:7,13;209:7; possibly (4) 210:2,15,24;217:16, 64:7;101:24;180:4, 22;218:8 power (1) post- (1) 190:7 powerful (2) 226:10 post-consumer (6) 32:8;174:5 66:13,18:67:2; **PowerPoint** (2) 132:14,16:163:10 6:23:38:14 posted (1) practical (3) 151:11:199:19; post-harvest (2) 217:11 228:18,19 Practically (1) posting (1) 199:17 157:22 practice (10) post-producer (1) 64:21:75:15.16: 163:10 76:17.20.25:158:15: posture (1) 160:4;179:6;223:14 195:25 practices (33) potassium (9) 75:4:84:1:92:15,16, 88:9;119:3,4; 18,21;98:1,11;100:20, 120:23;223:4;224:9, 21;103:20;104:2; 10,13,14 122:4;124:1,15; potatoes (1) 130:6;156:9,12; 229:5 160:6,10;178:24; potential (14) 180:18;188:20; 189:12;194:16;209:3, 42:7;52:23;53:1; 89:9;97:12;99:23; 15;210:7;215:20; 127:1;162:13,20; 218:20:219:13:235:8, 173:9:181:18:193:23: 15 211:15;220:18 preach (1) potentially (12) 131:1 17:15;39:2;41:5; preacher (1) 82:9;90:14;95:16; 105:15 109:10;125:24; precautionary (2) 130:17;186:13; 167:5,19 198:20;212:20 precedence (1) potentials (1) 108:17 precise (1) pots (1) 143:7 212:1 precision (1)

124:3 pre-consumer (2) 132:13,17 precursor (1) 93:1 predominant (1) 110:1 predominantly (1) 116:19 prefer (2) 155:24;227:10 preference (1) 197:12 preferred (2) 147:20;161:25 premium (3) 150:12;215:22; 220:11 premiums (1) 217:1 preparation (2) 44:5:45:11 prepare (1) 13:15 prepared (3) 100:2;127:20; 214:17 prescreened (1) 162:4 prescreening (1) 162:13 prescriptive (1) 126:3 prescriptiveness (2) 126:8,12 presence (2) 215:22;229:7 present (5) 13:10;99:24;144:3; 217:1;220:13 presentation (2) 6:24:218:13 presented (1) 232:7 presenting (1) 57:19 presents (1) 82:5 preservative (1) 80:1 preservatives (1) 80:23 preserve (1) 217:7 preserved (1) 80:22 President (2) 142:4;215:10 pressed (1) 181:23 pressing (1) 53:16 pressure (5)

- Vol. 1 April 23, 2024

15:10,17,18; 204:16.16 pressures (1) 57:16 pretty (18) 56:4:78:3:91:1; 95:17;102:24,24; 103:4;112:18;113:2, 3;121:16;130:18; 131:22;135:25;136:6; 163:19;186:12; 235:18 prevalent (1) 224:6 prevent (4) 5:22;47:23;143:23; 205:24 preventing (1) 232:6 prevention (2) 107:6;154:15 previous (6) 56:1;92:19;93:13; 156:1;188:25;193:4 previously (5) 15:2;21:7;40:7; 156:13;159:16 prework (1) 127:18 price (31)23:4,7:27:4,23; 37:2:61:16.17: 110:14,16,16;198:17; 199:1,3;200:17; 201:15:202:2,4,6; 203:10;205:9;206:15; 217:1,12,22;218:5; 219:9;220:25;231:22; 232:1.2.15 prices (10) 24:9:27:18.22:28:6: 198:12,15:202:17; 206:21;215:20; 216:22 pricing (9) 26:24;27:8;37:2; 110:21;201:3;215:16, 22;216:23;220:4 primarily (4) 130:18;154:21; 156:14:216:22 primary (5) 50:25;155:8;209:2; 216:1;223:24 principal (1) 224:1 prior (3) 55:3;176:12,12 priorities (7) 53:21:103:17; 172:3;192:1,13,15,17 prioritize (1) 53:20

Min-U-Script®

Burke Court Reporting & Transcription (973) 692-0660

(31) pointed - prioritize

- Vol. 1 April 23, 2024

Spring 2024 Meeting				April 23, 2024
prioritizing (1)	233:5	44:24;54:20;61:17;	151:5;155:20;156:4;	protections (2)
173:5	processing (6)	66:1;70:21;84:8;85:7;	161:6;163:19;169:9;	24:8;227:8
priority (5)	61:1;68:11;104:14;	87:18,23;88:19,23;	176:24;195:5;201:9;	protects (2)
20:22;46:14;84:6;	120:21;166:12;237:6	91:6;93:20;119:5;	225:1;235:24;237:20	158:16,17
85:13;192:25	processors (4)	120:2;122:5;142:13;	programs (9)	protein (4)
private (2)	95:1,15;108:11;	143:4,5,8,10,25;	64:20;74:6;77:14;	50:24,25;51:6;
34:9;168:9	195:6	145:1;155:20;156:15,	89:1;148:18;157:1;	237:12
pro/con (1)	procurement (1)	18;177:25;183:1,18;	173:2,2;188:25	proteins (2)
131:16	82:9	196:17;198:12;	progress (6)	51:8;156:18
probably (24)	produce (35)	199:18;201:23,24;	5:9;56:23;58:2;	protocol (1)
8:13;19:13;28:12;	31:16,24;32:6;	202:1;208:13,15,19,	180:16;181:24;200:2	213:11
50:8,8;63:4,5,13;	33:21;34:8;35:25;	23;215:17;216:18;	prohibited (18)	proud (1)
80:19;91:1;101:15;	36:7;50:14;62:8,16;	218:24;219:5,14;	23:13,16,22;46:22;	12:17
129:23;131:25;132:7;	76:23;87:12;89:7;	222:1;223:9,17;	47:2,4,5,16,21,23;	prove (5)
138:20;139:1;150:6,	101:23;140:9;142:6,	224:5,10;232:5	50:1,8;52:4;120:9;	112:14;122:9,10,
18;164:10;182:11;	11,15,16;143:9,19,22;	products (91)	124:17,21;173:13;	15;130:13
197:13;211:3;231:21;	144:1;148:10,12,12,	21:16;23:3;24:7;	208:11	proven (1)
232:13	22;171:11;177:25;	30:20,21;38:24;39:4,	prohibition (2)	201:15
problem (22)	178:1;183:2,4;	11,22,24;41:1;45:24;	92:11;98:13	provide (30)
26:6,6;41:12;57:4;	184:23;186:5;223:6	46:17;47:3;52:2,12,	Project (2)	9:18;14:25;18:4;
68:9;70:22;72:19;	produced (10)	13,25;55:8,9;62:4;	22:21;39:6	19:19;20:15;22:6;
95:12;107:14;110:7;	21:17;62:5,9;92:25;	85:3,6;86:4;87:23;	proliferate (1)	47:21;83:4;88:15,15;
111:21;129:3;132:11;	119:16;121:17;	88:14;89:5;91:3;93:7,	54:20	89:15;98:3;120:1;
133:19;136:18;	155:18,25;159:25;	11,20;95:2;96:8,10;	promise (2)	125:8;127:7;130:21;
140:10;164:17;	208:12	101:17,21,24;109:10,	198:11;204:23	139:23,23,23;142:7;
171:21;194:19;	producer (11)	15;120:21;123:23,24;	promising (1)	143:8;148:11;149:2;
196:17;206:7;230:9	17:16,18;73:24;	124:7;125:9;127:1;	23:9	171:22;176:2;183:14;
problems (3)	128:1;135:21;137:9;	129:10,17;130:5;	promote (3)	190:16;198:25;227:7;
7:2,5;70:3	169:6;180:17;203:19;	133:24;134:24;135:8;	137:17;140:25;	228:8
procedural (1)	220:14,23	148:2,8,20;149:3;	202:7	provided (10)
159:2	producers (45)	150:13;151:22;	promoted (1)	24:8;47:17;93:21;
procedure (2)	20:9,19,22;21:6,19;	152:13;153:1;154:22;	10:11	97:25;120:4;123:19;
158:24;159:1 procedures (8)	23:20;57:12,13,21,24;	155:12,12,18,19,24,	prop (1) 70:8	142:20;144:16;189:2; 238:23
9:11;12:23;17:10;	61:21;68:10;72:3,13; 78:1,4,8,10;83:22;	25;161:23;162:1,6,7; 168:1;173:4,7;	propelled (1)	provider (1)
84:22;111:8;124:9;	135:23,25;141:14;	183:15;184:7;195:18;	123:24	91:23
125:12;209:15	150:7;159:5,9,22;	196:3,13,16,19;204:5,	proper (1)	provides (2)
process (58)	160:21;161:13;164:5,	19:208:3,5;217:1,8;	224:20	121:8;161:14
9:5,8,14;12:10;	16;169:17;180:25;	225:25;226:23;	properly (1)	providing (5)
35:19;36:9;39:18;	181:1;184:1,19;	235:20;236:13,15	127:20	13:6;82:11;180:15;
40:13,24;41:8;44:1,	194:3,6;201:13;	professional (2)	proponent (1)	186:3;193:21
22;58:7;62:21;63:8;	206:19;216:23;217:3,	128:13;143:17	105:16	Proxy (1)
83:6,11;84:19;92:25;	9,12;218:1;219:12	professionals (2)	proposal (5)	13:5
104:17;108:4;109:9;	producer's (1)	80:6;142:15	142:22;165:19,20;	public (30)
112:17,24;116:21;	122:18	profit (1)	172:9,12	5:12;6:2,3;9:4,7;
120:19;126:4,5,24;	produces (1)	79:22	proposals (1)	12:12,24;13:5,6,9;
127:9;129:16,18,22;	33:20	profitability (1)	172:4	18:1;36:4,12;44:1;
130:4;134:5,12,14;	producing (3)	205:23	propose (4)	51:22;56:1;58:19;
135:24;136:18;	12:9;21:22;37:19	profitable (1)	39:25;47:22;124:7;	100:16;101:6;125:22;
137:25;150:10,10;	product (27)	62:14	126:18	159:24;188:13;
151:21;152:9,16;	24:18;31:11;34:2;	profitably (2)	proposed (9)	189:15;196:6,19;
161:8,19;162:12;	36:8;52:3;58:11;	23:6;217:11	40:4;51:12;53:22;	206:17;210:6;227:15,
165:4;167:23;175:11;	90:14;91:9;96:9,10;	profit-sharing (1)	93:15;94:25;96:13;	17;238:23
180:23;189:20;190:9,	106:10;116:16;120:3;	22:23	97:24;184:17;208:22	publication (1)
12,17;212:3;227:14	124:12;129:15,17;	Program (47)	prostate (1)	40:1
processed (11)	130:14;131:5,22;	5:4;9:1;15:1,20;	80:13	publicly (1)
31:11,13,14;62:11;	157:7;161:21;205:12,	28:4;54:3;67:1,5;	protect (6)	34:7
79:25;80:19;84:25;	15;206:20;220:12,19;	74:6,8,18;75:6;77:7,	37:17;48:1;79:19;	publish (1)
124:12;155:19;	224:13	16,18,24;78:1,2,6;	81:10;112:5;125:11	39:21
205:10;236:22	production (63)	129:12;131:1;137:22;	protecting (3)	published (1)
processes (6) 64:7:110:12:	24:16;25:6,7;28:11,	138:5,13,16,18,21,25;	15:22;156:20;225:1	189:2 pull (7)
64:7;119:12; 162:17;189:13,19;	19;32:12;34:11,15, 15;39:4,20,23;40:2;	139:4,14;140:19,23; 141:6,18;148:18;	protection (1) 184:14	pull (7) 18:3;36:25;112:16,
102.17,109.13,19,	13,37.4,20,23;40:2;	141.0,10,140.10;	104.14	10.5,50.25,112.10,

Burke Court Reporting & Transcription (973) 692-0660

(32) prioritizing - pull

19:114:1:136:12; 170:12 pulled (3) 101:22;107:25; 121:15 pulling (1) 18:16 punch (1) quantified (1) 136:16 26:23 purchase (2) quantities (1) 101:16;155:12 97:8 pure (1) quantity (2) 71:20 purple (1) Quarcoo (7) 33:24 purpose (2) 75:6;143:21 94:16 purposes (1) 89:23 queue (1) pursued (1) 43:9 quick (13) 60:2 pursuing (2) 156:25;186:19 push (7) 32:9;37:8;56:6; 60:10;97:4;122:21; 193:17 166:18 quicker (3) pushed (1) 220:16 quickly (9) put (38) 7:3:19:7:26:13: 29:14:67:4:78:11: 181:3.3 90:1:94:16:98:2; quiet (1) 108:16,25;109:2; 13:25 111:23;112:11,13; quietly (1) 114:7,7,8;122:20; 177:2 128:9;131:20;134:10; quite (10) 135:8:141:18:148:13: 158:11;162:20; 165:17,17;170:2; 171:19;173:22; 177:14:182:10:191:5; quo (3) 194:11;195:19;199:8 puts (2) quote (7) 220:14,14 putting (2) 87:22;122:19 Q racial (9) **QAI (8)** 91:25;92:4,6,13,19, 21;93:1,4 192:15 QAIs (1) radar (1) 97:25 17:15 Raikes (17) **QAI's** (1) 92:16 qualified (1) 190:19 qualify (1)

67:23,24;68:22; rain (2)140:2:205:14 84:18;91:22;101:24; rainfall (2) 110:14;129:12,17; 131:1;155:9,12; 75:11:76:23 rainv (1) 158:8;161:3;162:21; 176:8;184:12;195:25; 63:2 196:2;220:18 raise (4) 6:14;23:7;24:13; 29:14 raised (4) 64:2;156:15; 190:24;219:3 56:19;197:10 raising (5) 22:24;57:17;76:6; 11:15,16;187:19; 115:22;129:17 218:12;219:4,8,15 Ramy (6) 22:11;30:15,16,19; questionable (1) 32:15,16 ran (3) 74:1;130:25;209:22 randomly (2) 12:20;16:22;38:10; 209:25;237:15 49:13;77:3;78:9; range (5) 89:20;103:2;113:6; 28:10;33:15;36:25; 115:6;176:14,15; 45:2;171:21 ranks (1) 12:18 58:2;114:4;173:16 rap(1)107:21 18:25;21:11;46:2; rarely (1) 58:9:87:1:129:4.20; 208:21 raspberries (1) 222:23 rate (3) 88:14:108:9:136:7 rates (2) 31:24:188:22 25:5;37:25;42:25; rather (3) 169:13,15;182:12 97:8:100:21:137:24: 158:20:192:20; ratio (8) 194:10;195:16 90:11.19:130:4: 131:15,21;132:1; 93:16,18;94:21 164:24;194:8 ratios (6) 90:13;91:2,9;130:3, 67:24;93:15,16,19, 23;206:2;233:19 6;131:24 raw (1) R 62:2 reach (6) 16:2;41:15;118:14; 64:3.4.9:188:14.14: 173:25;174:3;234:9 189:19.21:191:3: reached (2) 73:10;79:2 react (1) 80:10 read (5) 188:5;194:25; 74:7;76:17;133:16; 198:3,5,8,8;200:12, 199:14;225:10 21;202:13;204:10,21; reading (2) 205:1,18;206:4,7,22; 145:4:211:9 ready (5) 14:12,13;19:14; 97:8;114:1

Real (9) 22:20:28:1:29:15; 38:10:39:15:58:1: 103:15:166:25; 232:23 realistic (1) 133:5 realistically (1) 133:4 reality (1) 114:5 realize (3) 54:16:105:14:181:7 realized (1) 74:7 really (175) 14:6;16:21;17:19; 26:7,17,18,21;35:8, 14;36:6,8,19;37:10, 13,18,18,23;38:1; 40:18;41:11,20,22; 42:17:48:6,17:49:19; 50:25;55:23;56:10, 18;57:6,10;58:4,12; 59:15:60:13:68:16; 69:11,14,15;74:10; 75:1,6,22;76:8;77:23; 78:1;88:4;90:13; 96:14,18;97:20;99:9; 103:25:104:5,11,17; 105:1,20,22;106:15; 108:15:109:9:111:3. 14:115:25:116:4.22; 117:1,14;118:8; 122:3,21;126:12,21; 127:23;128:12; 129:15:130:19:131:3. 5;133:15,19,22;134:4, 9,24;136:7,15,19; 137:8,13:139:3,7: 144:13,17,17,19; 145:10,12,18;147:11, 18;148:2,8,18;149:13, 17,18,24;150:19; 151:6;152:4;154:6,9, 18;163:1;164:5; 165:5;167:3,18; 168:2,21,23,24,25; 169:4,12;170:3,7; 171:18;173:23;174:2, 5:175:9,10,18: 176:13;177:9,13,17; 178:4,6;179:8,14; 180:18;181:20;182:2, 6,13;191:3,11,18; 192:8,9;193:2,3,19; 194:1,16;196:18; 197:16,19;199:3; 200:13;201:3;204:12; 205:16:211:7:217:17; 218:8;219:21;227:24; 231:22;236:3 realms (1)

- Vol. 1 April 23, 2024

16:3 rearrange (1) 6:18 reason (7) 23:13:52:2,18; 136:13;139:3;168:8; 229:1 reasonable (3) 28:6;29:18,22 reasons (8) 125:8;152:25; 179:13;188:16;228:6, 9,13,16 Rebekah (7) 79:6,12;81:17,22; 83:7,9,15 rebounded (1) 169:10 recall (3) 85:18,25;86:1 receive (5) 23:4,18;40:25;91:7; 120:2 received (2) 21:17;109:20 receiving (3) 109:11;186:12,19 recent (2) 69:11;167:11 recently (8) 25:14;32:5;107:24; 150:18:178:24:184:8: 210:19:214:23 reclassify (1) 46:3 recognize (2) 21:10:153:11 recognized (3) 12:25;13:2;21:5 recommend (2) 42:6;125:2 recommendation (6) 39:17;41:6;126:7; 156:5;183:22;189:6 recommendations (15) 54:1,11;58:23;59:1, 8;60:2;84:22;85:8; 96:3;166:19;182:9; 189:3,4,15;191:10 recommended (1) 32:6 recommending (1) 119:11 reconvene (2) 238:25;239:5 record (6) 6:2;8:5;13:4;79:9; 157:20:158:1 recorded (1) 7:6 recording (6) 5:8,9,10;181:19,23, 24

127:11

quality (23)

31:5;56:19;62:24;

207:1

204:6.11

rail (2)

recordkeeping (1) 15:25 recruitment (1) 194:6 recycle (1) 147:20 Recycling (1) 152:2 red (3) 27:21,23;229:11 redefine (1) 160:25 reduce (8) 32:7;89:8;125:8; 130:21;161:21;163:9; 172:7;202:1 reduced (2) 23:3;169:9 reduces (3) 15:24,25;226:3 reducing (2) 31:8:148:8 reduction (2) 87:25:149:6 reductionist (1) 115:10 redundancies (2) 15:25:34:17 redundant (1) 85:23 re-emphasize (1) 172:25 reevaluate (1) 143:14 refer (4) 24:19;121:1;168:7; 197:16 reference (6) 97:17:168:7: 172:11,19:208:4; 210:6 referenced (2) 188:24;191:14 referencing (3) 211:14;213:7; 214:21 refine (1) 173:15 refined (4) 184:1;185:3,7,16 reflect (1) 93:6 reflected (1) 150:6 reflecting (1) 12:5 reflects (2) 124:14;199:8 reforming (1) 24:1refrain (1) 13:6 regard (4)

143:16:183:11; 184:4:219:11 regarded (1) 20:13 Regarding (10) 20:17:21:4:92:10; 93:11,13;111:7; 147:4;156:2;227:10, 15 Regardless (1) 93:24 regards (3) 116:17;211:11; 226:23 regeneration (1) 83:2 regenerative (8) 82:4,9,15,18,22,24; 118:5:173:6 region (1) 195:9 regional (5) 16:5;34:5,10; 174:10:204:11 regions (1) 142:17 registered (2) 6:15:226:15 registrants (3) 39:22:227:11.16 registration (1) 13:3 Registry (1) 80:10 regs (1) 165:8 regular (3) 52:21:69:19:160:9 regularity (1) 46:21 regularly (1) 23:15 regulated (1) 147:19 regulating (2) 154:16;173:14 regulation (6) 17:24;31:9;54:5; 87:20;162:19;173:6 regulations (19) 14:18:47:12:51:23; 57:1:59:1:64:23: 66:14:91:10:93:23; 129:8,22;130:4; 160:24;161:4;162:9; 183:14;208:23; 221:15;232:4 regulators (1) 129:25 regulatory (12) 15:14;57:1,25;58:2, 8;60:4;64:17;127:13; 142:4;199:7;212:6;

222:21 reinforcing (1) 103:8 reiterate (5) 129:13:140:16; 148:15:184:16; 235:12 reject (2) 84:7;112:22 rejecting (1) 23:21 relate (1) 54:25 related (14) 23:24;41:24;42:5, 18;55:8;87:17;96:22; 100:4;110:21;129:7; 147:17;157:6;195:14; 210:11 relates (1) 172:21 Relations (2) 118:24:234:8 relationship (2) 35:22;172:13 relationships (1) 35:20 relative (1) 226:3 relay (2) 6:1:94:22 relaved (1) 94:9 release (2) 112:22:113:8 released (1) 32:5 relevant (2) 189:4:191:24 reliable (1) 159:22 relist (1) 20:18 relisting (4) 93:5;119:2,7; 120:23 rely (7) 147:18,25;162:22; 195:12;208:21; 231:23;232:14 relying (1) 143:7 remain (2) 62:14:132:10 remaining (1) 63:13 remains (5) 51:15;54:24;93:17; 183:24;184:6 remarks (4) 8:22;12:3;13:7; 142:7 remember (3)

13:15:42:2:210:7 remembering (1) 214:10 remind (1) 9:14 reminded (1) 18:13 reminder (2) 8:6;12:23 reminders (1) 12:20 Removal (1) 158:16 remove (1) 57:9 removed (3) 93:6;158:24;161:20 removing (4) 97:8;119:10;219:1, 1 rename (1) 7:11 repairs (1) 216:7 repeat (2) 185:14;197:21 repeated (1) 85:8 repeatedly (2) 15:8:38:22 repercussions (1) 82:21 replace (1) 85:9 replacement (1) 216:7 report (7) 64:6:189:2.8: 191:10:193:20: 226:25;229:17 reported (2) 227:3:231:2 reportedly (1) 80:12 reporting (1) 214:18 Reports (5) 32:3;81:1;112:21; 189:7;209:22 represent (8) 16:24;19:16;87:10; 142:16:155:7:160:21: 195:21;206:16 representation (2) 189:25;190:10 representative (2) 142:14;154:13 representatives (1) 188:13 represented (1) 93:21 representing (6) 30:20:119:1:

- Vol. 1 April 23, 2024

166:12;171:11; 212:11:216:6 represents (4) 82:10:142:10: 183:3:195:7 reproductive (1) 196:11 request (15) 18:1,3;19:7;39:21; 47:4,12:65:16:66:3; 151:18,21;179:1,7; 180:9;190:13;210:20 requesting (1) 46:4 requests (2) 46:25;120:2 require (9) 21:25;39:17;41:9,9; 147:14;160:6;207:20, 24:208:7 required (11) 15:12;39:5;79:18; 80:7;161:17;171:20; 183:21;199:11; 207:23;227:7;233:4 requirement (8) 21:13,15;140:9; 152:21:164:25; 213:15,15,16 requirements (12) 90:11:92:10; 113:22:126:20.23: 130:3,7:163:6; 183:16:207:12: 208:16:227:6 requires (4) 112:25;189:9; 218:1:227:14 requiring (4) 56:20;58:22;80:15; 147:20 re-review (1) 124:22 research (24) 19:21,22;20:20,21; 80:5,17;85:13;103:3, 15,16;132:3;172:3; 176:2;192:13,15,17, 18,20,24;193:5,6,8, 13;228:16 reserve (1) 172:4 reshuffle (1) 95:22 residential (1) 167:8 residents (2) 147:15;148:12 residual (1) 226:17 residue (46) 23:2:46:9:48:6; 49:17,22;51:7;52:5;

Burke Court Reporting & Transcription (973) 692-0660

$\begin{array}{c c c c c c c c c c c c c c c c c c c $	 225;65:5,8, 7;94:25; 16,19; 17 (4) ;97:4; (1) 3;94:25; :11,18 .) 12:20; 1;161:6;
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	 225;65:5,8, 7;94:25; 16,19; 17 (4) ;97:4; (1) 3;94:25; :11,18 .) 12:20; 1;161:6;
141:12;175:25;183:8, 11,19,23;184:2;185:3, 7,16,22;186:7,13; 207:11,12,14:208:2; 209:9,20;210:1,12; 213:6,10,16,24; 213:6,10,16,24; 229:11;230:17217:10178:6RME (3) 179:1,5;180:3rubber (1) 50:6207:11,12,14:208:2; 209:9,20;210:1,12; 213:6,10,16,24; 229:11;230:17162:13146:12,23;155:2,5, 6;157:1650:5,6;101:1315:16;51:2209:9,20;210:1,12; 213:6,10,16,24; 229:11;230:17109:24;113:7;114:6; 25;128:14,16;147:17; 25;128:14,16;147:17; 25;128:14,16;147:17; residues (9) 207:20;229:17,19; 207:20;229:17,19; 207:20;229:17,19; 207:20;229:17,19; 207:20;229:17,19; 230:25Rob (6) 150:2196:14;166: 150:2170:12 79:12 resistance (1) 59:970:12;73:2 70:12;73:2rid (2) 70:12;73:2Robin (3) 221:19;73:6;76:3,12; 71:9;73:6;76:3,12; 70:12;79:7;87:8; 70:12;79:7;87:8; 70:12;114,19,24,25; 70:12;114,19,24,25; 125:1;191:16; 20;71:14,19,24,25; 20;71:14,19,24,25; 125:1;191:16; 20;71:14,19,24,25; 20;71:14,19,24,25; 125:1;191:16; 20;71:14,19,24,25; 125:1;191:16; 20;71:14,19,24,25;178:22,79:7;87:8; 131:17;134:11,13; rollers (1)ruber (1) 102:179:1;233:1 rollers (1)	 225;65:5,8, 7;94:25; 16,19; 17 (4) ;97:4; (1) 3;94:25; :11,18 .) 12:20; 1;161:6;
11,19,23;184:2;185:3, 7,16,22;186:7,13; 207:11,12,14;208:2; 209:9,20;210:1,12; 49:25;50:5;93;3; 213:6,10,16,24; 225:24;226:6;228:7; 225:24;226:6;228:7; 225:24;226:6;228:7; 124:25;127:7,10,15, 25;128:14,16;147:17; residues (9) 32:7;46:21;48:14; 32:7;46:21;48:14; resume (1)Rice (6) 146:12,23;155:2,5, 6;157:16 Roh (6)179:1,5;180:3 road (3)50:6 rule (18) 207:4;215:6;222:9, 41:21 41:21 24:93:15,17residues (9) 32:7;46:21;48:14; 109:12;124:19; resime (1)25;128:14,16;147:17; 25;128:14,16;147:17; richer (1)Rob (6) 157:24,25;158:3; 160:12,13;238:2096:14;166: 209:12;21:1 24:15;28:11 222:16;225:11; 238:20200:12;21:1 222:22;16;225:11; 238:20residues (9) 32:7;46:21;48:14; 109:12;124:19; resume (1)207:20;229:17,19; 238:2068:22 right (57) 238:20Robin (3) 20:12;21:1 238:2020:12;21:1 222:16;225:11; 238:2020:12;21:1 232:25resin (1) 59:933:22;34:4;68:6,6, 7,14;70:17;71:211:20;12:1;14:15; 79:10:3; resistance (1) retailer (2)61:9;79;10:3; 78:22;79:7;87:8; 78:22	 225;65:5,8, 7;94:25; 16,19; 17 (4) ;97:4; (1) 3;94:25; :11,18 .) 12:20; 1;161:6;
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	 225;65:5,8, 7;94:25; 16,19; 17 (4) ;97:4; (1) 3;94:25; :11,18 .) 12:20; 1;161:6;
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	 225;65:5,8, 7;94:25; 16,19; 17 (4) ;97:4; (1) 3;94:25; :11,18 .) 12:20; 1;161:6;
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	 225;65:5,8, 7;94:25; 16,19; 17 (4) ;97:4; (1) 3;94:25; :11,18 .) 12:20; 1;161:6;
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	 225;65:5,8, 7;94:25; 16,19; 17 (4) ;97:4; (1) 3;94:25; :11,18 .) 12:20; 1;161:6;
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	7;94:25; 16,19; 17 (4) ;97:4; (1) 3;94:25; ::11,18 .) 12:20; 1;161:6;
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	16,19; 17 (4) ;97:4; (1) 3;94:25; :11,18) 12:20; 1;161:6;
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	17 (4) ;97:4; (1) 3;94:25; 1:11,18 1) 12:20; 1;161:6;
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	(4) ;97:4; (1) 3;94:25; 1:11,18 1) 12:20; 1;161:6;
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$;97:4; (1) 3;94:25; 1:11,18 1) 12:20; 1;161:6;
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$;97:4; (1) 3;94:25; 1:11,18 1) 12:20; 1;161:6;
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	 (1) 3;94:25; 1:11,18) 12:20; 1;161:6;
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3;94:25; 1:11,18 1) 12:20; 1;161:6;
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3;94:25; 1:11,18 1) 12:20; 1;161:6;
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1:11,18 1) 12:20; 1;161:6;
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1:11,18 1) 12:20; 1;161:6;
resistance (1) 59:9retailer (2) 70:12;73:242:15;60:9,10;70:1; 71:9;73:6;76:3,12; 71:9;73:6;76:3,12; 190:1183:21;148:20; 190:11148:16;201 ruminants (1 190:11resolution (1) 26:22retailers (18) 35:9,11,18;68:15; 125:1;191:16; 20;71:14,19,24,25;78:22;79:7;87:8; 90:21;108:11;110:20; 113:12,16;117:14; 122:24;125:18; 215:12roll (3) 8:16;9:10;1 53:5;129:1 215:12resource (3) 214:2070:13,14,15,15,15,19, 20;71:14,19,24,25; 72:8,20;112:5113:12,16;117:14; 122:24;125:18; 131:17;134:11,13;rolled (1) rollers (1)8:16;9:10;1 218:7;229:	1:11,18 1) 12:20; 1;161:6;
59:970:12;73:271:9;73:6;76:3,12;190:11ruminants (1resolution (1)retailers (18)78:22;79:7;87:8;roll (3)159:1826:2235:9,11,18;68:15;90:21;108:11;110:20;10:2;179:1;233:1rum (8)resource (3)70:13,14,15,15,15,19,113:12,16;117:14;rolled (1)8:16;9:10;1125:1;191:16;20;71:14,19,24,25;122:24;125:18;215:1253:5;129:1214:2072:8,20;112:5131:17;134:11,13;rollers (1)218:7;229:	1) 12:20; 1;161:6;
resolution (1)retailers (18)78:22;79:7;87:8;roll (3)159:1826:2235:9,11,18;68:15;90:21;108:11;110:20;10:2;179:1;233:1run (8)resource (3)70:13,14,15,15,15,19,113:12,16;117:14;rolled (1)8:16;9:10;1125:1;191:16;20;71:14,19,24,25;122:24;125:18;215:1253:5;129:1214:2072:8,20;112:5131:17;134:11,13;rollers (1)218:7;229:	12:20; 1;161:6;
resolution (1)retailers (18)78:22;79:7;87:8;roll (3)159:1826:2235:9,11,18;68:15;90:21;108:11;110:20;10:2;179:1;233:1run (8)resource (3)70:13,14,15,15,15,19,113:12,16;117:14;rolled (1)8:16;9:10;1125:1;191:16;20;71:14,19,24,25;122:24;125:18;215:1253:5;129:1214:2072:8,20;112:5131:17;134:11,13;rollers (1)218:7;229:	12:20; 1;161:6;
26:2235:9,11,18;68:15;90:21;108:11;110:20;10:2;179:1;233:1run (8)resource (3)70:13,14,15,15,15,19,113:12,16;117:14;rolled (1)8:16;9:10;1125:1;191:16;20;71:14,19,24,25;122:24;125:18;215:1253:5;129:1214:2072:8,20;112:5131:17;134:11,13;rollers (1)218:7;229:	1;161:6;
resource (3)70:13,14,15,15,15,19,113:12,16;117:14;rolled (1)8:16;9:10;1125:1;191:16;20;71:14,19,24,25;122:24;125:18;215:1253:5;129:1214:2072:8,20;112:5131:17;134:11,13;rollers (1)218:7;229:	1;161:6;
125:1;191:16; 214:2020;71:14,19,24,25; 72:8,20;112:5122:24;125:18; 131:17;134:11,13;215:12 rollers (1)53:5;129:1 218:7;229:	1;161:6;
214:20 72:8,20;112:5 131:17;134:11,13; rollers (1) 218:7;229:	
	19
resources (11) retain (2) 137:14;140:5;141:8; 88:20 Runde (12)	
3 9:6;56:23;70:1; 5 7:15;157:4 1 46:10;150:4;164:11; Ron (25) 5 7:19;178:	19;
82:17;97:3;98:2; retention (3) 165:7;169:18,23; 118:22;123:12; 182:21;188	3:4,8,9;
126:12,14;156:21; 57:13;58:12;194:6 170:16;171:10; 128:21;129:5;131:7, 191:13;192	
189:10,12 return (2) 175:21;176:20; 13;133:9,13;134:8,9; 15;194:9,2	
respect (5) 113:23;198:10 178:13;187:9;194:4; 148:4;149:8;150:22; running (7)	2
9:18;25:20;29:24; reusable (1) 202:5;204:14,17; 151:25;225:11,15; 30:6;37:7;7	74.2 21.
	157:25
respected (1) revenue (1) 217:19,24;233:18; 232:19,20;233:23,23 Russia (1)	
157:1184:14236:5;237:19Ron's (1)136:10	
respectful (1) revenues (1) Rightfully (1) 154:5 rye (5)	
9:15 81:8 158:25 room (4) 178:25;179):2,4,4;
respective (1) reverse (5) rigor (1) 71:21;153:20; 198:22	
227:1 68:1,3;83:23;106:1, 124:8 177:5;190:8	
respond (6) 2 rigorous (4) root (1) S	
45:10;49:24;51:25; review (34) 136:17;167:23; 230:10	
52:14;166:20;171:20 39:7,16,18,18; 183:16;185:20 roots (2) saddled (1)	
responding (1) 40:10,13,20;41:2; rise (1) 75:13;76:18 221:11	
124:25 47:15;49:7,9;55:2; 88:1 rotation (6) sadly (1)	
response (14) 65:17;66:1;81:7;85:1, risk (40) 23:9;24:11;61:6; 134:1	
54:4;170:12,13; 2,7;88:6;92:6,9,13,15; 65:6;67:3;80:18; 139:23;237:10,20 safe (3)	
171:17;176:15;238:5, 98:14;111:9;129:16; 87:24;100:22;131:15, rotational (2) 88:15;143:	25;
7,9,11,13,15,17,19,21 142:8;155:15;163:21; 18,19;141:2,2;161:5, 27:1;224:13 159:22	
responses (1) 167:23;184:15; 9;162:20;183:9; rotations (2) safer (2)	
186:20 186:17;209:3;214:13 184:4;196:6;209:11, 33:18;136:23 32:8;227:5	
responsibility (1) reviewed (6) 12,14,16,19,24;210:4, roughly (1) safety (10)	
226:24 55:12;95:21; 7,7,14,15;211:2,2; 166:12 31:15,25;3:	2.10.
responsible (2) 127:15;142:18;156:9; 212:19,21,25;213:6, round (3) 52:24;113:	
120:6;226:20 184:19 12;219:24;220:5,20, 9:24;143:9;222:13 142:5;143:	17;227:6
responsive (1)reviewer (1)22;226:3,9roundabout (1)Safeway (1)	
58:4 91:21 risk-based (4) 96:12 71:1	
rest (2) reviewers (2) 15:23;21:25;66:6; route (2) Sal (1)	
187:4;225:5 40:11;209:16 98:12 37:25;118:6 197:17	
restriction (2) reviewing (6) risks (9) routinely (2) sale (1)	
20:23;96:4 16:3;64:25;80:25; 31:8;32:7;39:9; 159:19;209:12 220:2	
restrictions (2) 142:9;155:14;211:18 161:15;196:8;210:9, row (1) sales (1)	
197:10,12 reviews (3) 11;213:8;227:9 198:9 166:13	•
result (7) 94:10;156:1;207:18 risky (3) rowing (2) salmonella (3	
111:16;147:5; revision (3) 66:17,18;210:4 107:17;114:12 31:13,20,23	5

- Vol. 1 April 23, 2024

screwed (3) same (35) saving (17) 47:9:54:16 127:19:210:16.21; 9:18:24:7.8:28:18: 45:24:72:17:121:7: 203:16.16.17 seeing (20) 214:15 scrutinizing (1) 30:9,14:32:20; 47:16,16;49:1;65:5; 126:2.4:128:13: senior (2) 72:19;80:1,23;82:3, 139:20:144:22: 94:17 49:22:66:17:85:19: 91:21:147:1 25:89:23:107:10; 151:12:152:20; scrutiny (2) 108:9,19;109:25; sense (3) 114:10,11,12;120:20; 177:22:181:16.17: 65:7;195:20 110:1;111:20;115:9, 49:4;68:16;185:25 seafood (1) 137:12;145:22;151:1; 187:8;205:6;211:13, 9;133:2;146:19; sensible (1) 156:13:162:4:198:19; 22 156:18 164:8;166:1;182:5; 21:24 SB-1383 (1) seal (4) 202:8;204:13 sent (3) 200:24;203:3;204:13; 208:23;216:19;221:9, 154:16 34:1,23;48:1; seek (2) 109:20,22;110:3 11;228:24;234:23; scale (5) 123:24 15:20;188:14 sentence (2) seeking (2) 235:15 102:17;115:2,14; 8:11:21:23 search (2) 196:9;200:4 86:4:169:6 sample (11) 118:3:130:7 separate (6) 108:18:109:22; scare (3) seem (10) 69:14,15;126:25; seas (2) 121:18;124:11; 132:18;178:7,10 136:20;137:9 37:7;41:8;122:20; 133:20;151:19; 127:19,20,21;183:21; 189:4;207:16,24; 216:18 scared (1) season (3) 226:21;230:23,25 15:6;33:10;76:23 208:6,11;232:6;235:8 separated (1) 159:10 seemingly (1) sampled (1) 147:8 scenarios (1) seasons (1) separation (1) 114:1 21:25 63:3 97:19 sampler (1) schedule (7) seat (1) seems (6) 69:12 114:1 13:13;22:18;30:7; 68:20 21:14:49:4:117:9; September (1) samples (14) 53:5;79:8;168:13; sec (1) 180:23:234:24: 93:17 109:17,20;112:16, 197:18 38:16 235:18 serious (5) 19,20;114:2;207:16; scheduled (2) Second (15) segment (2) 15:15;161:5;167:7; 208:3;226:10,18,19; 5:13;73:10 39:16;40:4;42:18; 142:11;183:4 203:8;217:4 229:10,15,19 schedules (2) 56:9;57:5;64:11; Seitz (10) serve (5) 168:10,12 sampling (6) 71:12;136:3;146:19; 91:16,20,21;94:19; 22:21;33:4;91:21; 49:17;124:9,13; school (2) 152:11;164:6;178:17; 95:11,14;96:20; 152:4;182:25 206:10;218:25 210:12;213:10;226:8 197:7;209:1;228:18 97:14;98:10;99:6 served (1) San (3) schools (1) secondarily (1) selected (1) 120:21 147:2,7;148:22 82:12 109:14 190:3 serves (2) sand (2)science (3) secondary (1) selection (4) 56:14:123:21 59:17:236:8 84:18:106:9:131:25 237:6 124:16,21;147:8,16 service (15) sanitation (3) science-based (4) Secondly (2) self (1) 22:16;24:24;33:8; 37:12;45:13;67:22; 89:8;119:11.21 83:22:124:13; 21:14;111:13 117:23 183:24;184:17 self-regulate (2) sanitization (1) seconds (2) 68:8;85:16;110:14; 13:24;137:15 scientific (6) 111:15,18 130:9 128:4:164:5:190:12; **SECRETARY (21)** self-regulating (1) 196:23;227:20; sanitize (1) 84:21,23;87:21; 134:23;226:1;227:4 229:25 111:20 130:13 10:13;41:19;42:3, sanitizer (2) scientifically (2) 13,16;43:5;49:17; self-testing (1) serviced (1) 89:7;223:10 69:21:159:12 90:5.9:96:22:131:13: 128:2 215:19 132:5;133:9;149:1,8, sanitizers (1) scientist (1) sell (4) services (3) 116:17,20;226:13, 91:24;137:2;170:10 89:12 130:25 11;164:22;165:9,12; sanitizing (1) scope (1) 197:2,21 14 serving (4) 124:8 143:18 Section (3) seller (1) 32:14;35:3;163:16; 120:17;143:1; 27:14 Sara (10) scopes (1) 223:1 170:24;178:18; selling (2) session (3) 176:5 172:11 9:13;165:6;176:12 182:20,22,25;184:24; sections (1) 35:15;68:5 **Scott (13)** 19:12;22:9,10,11, 185:1;186:2;187:1; 92:14 semester (1) sessions (1) 188:2 13;24:25;25:3;26:16; sector (5) 18:21 9:2 sat (1) 28:21,25;29:2,25; 58:10:63:15:83:1; semester's (1) set (7) 30:3 124:14:167:6 41:22;74:14;75:15; 113:13 44:5 save (1) scraps (4) secure (1) semi-annual (1) 158:19;190:2;212:7; 147:12,24;148:1,21 199:6 236:16 177:5 158:6 SEMPA (1) Seth (10) sedations (1) saved (1) screen (11) 6:18,22,23;8:12; 30:16;32:21,22; 24:4160:6 71:14 14:2,4;132:25;133:3, sedative (1) Senate (1) 33:1;35:5,5,7,8; savvy (1) 36:18:38:6 95:17 6:150:24:161:17 160:4 113:13 saw (11) screened (3) seed (12) senators (1) sets (1) 18:1:42:3:51:22; 132:24;134:2; 53:22;54:8,8,10; 234:5 6:22 90:11;128:8;146:10; 162:12 55:21,23;56:3,7,12, send (9) setting (4) 150:1;154:10;170:19; screening (1) 15,21;120:20 7:15:33:21:83:10; 28:5;56:5;75:9; 202:9;219:9 133:19 seeds (2) 112:14;121:16; 237:17

- Vol. 1 April 23, 2024

Spring 2024 Meeting				April 23, 2024
settled (1)	shortage (1)	signs (1)	23;189:5,16,17,22;	165:16,23;166:1,5;
44:19	15:15	72:2	191:6,14	168:3;170:19,23;
seven (1)	short-live (1)	silo (1)	slides (5)	171:5;173:18;175:3;
24:14	154:16	21:20	6:21;11:25;38:15;	176:20;177:10;178:4,
several (16)	short-lived (1)	silt (1)	128:25;188:5	14,17;180:11;181:22,
20:13;21:7;34:14;	159:8	134:3	slip (1)	25;182:16,20;184:24;
49:5;53:15;55:9;92:8;	shortly (1)	similar (12)	96:15	185:12;186:1;187:1,
114:25;124:10;125:2;	22:5	28:10;42:21;43:2;	sludge (1)	4,15,18,21,24;190:23;
129:7;171:17;173:5;	shouldn't (1)	52:24;107:15;118:4;	167:9	192:6;193:16;194:21,
189:18;192:14;225:8	201:5	149:8,20;163:24;	slug (1)	24;196:25;197:24;
shabby (1)	shoutout (2)	199:2;211:11;217:9	224:6	198:3,6;200:5,15;
157:24	175:16;182:4	similarities (1)	small (25)	205:19;206:8,12;
shakes (1) 144:7	show (5) 109:24;148:7;	17:23 Similarly (1)	33:19;34:5;37:17; 68:9,17;70:19;71:16,	207:2;209:5;210:22, 25;211:4;212:7;
shall (1)	153:17;208:15;	68:12	16,19,24,25;72:13,20;	214:9;215:2;217:14;
13:6	216:12	simple (10)	73:1,6;107:8;115:2,	219:17;221:7,19;
shape (2)	showed (1)	37:25;50:16;51:3,9;	14;118:3;119:18,19;	222:7,12;225:2;
9:5;201:6	132:3	108:17;114:13,13;	122:14;132:25;	227:22;231:7,14,16;
share (13)	showing (7)	196:8;208:22,23	136:24:159:14	232:19;233:22;234:1,
6:21,23;36:19,25;	12:11;72:2;106:14;	simply (3)	smaller (6)	7,12,17,19;236:1;
43:14;44:12;78:5;	153:22;166:24;	67:24;92:22;172:13	34:25;70:15;73:4;	237:25;238:6,8,10,12,
83:1,3;102:25;169:8;	167:17,21	single (1)	88:13;107:8;237:13	14,16,18,20,22
186:21;210:22	shown (4)	171:19	smashing (1)	snack (1)
shared (1)	100:24;159:7,12,16	single-use (1)	206:23	79:11
183:2	shrivel (1)	149:12	Smith (227)	snail (1)
sharing (4)	132:25	sit (2)	9:12;10:4,5;12:2,4;	224:6
11:23;44:11;104:6;	shy (1)	202:15;206:16	13:25;14:7,10,14;	so-called (5)
194:16 shelf (1)	40:3 sick (1)	site (2) 163:23,25	16:17;17:25;18:11; 19:3,5;21:23;22:2,9;	38:21;39:3,9;85:6; 167:23
68:6	132:8	sites (1)	24:25;26:13;28:24;	social (3)
shell (1)	side (30)	159:17	30:2,5,13,15,18;	44:11,13;68:25
83:10	7:24;50:3,14,15,15;	sits (2)	32:15,18,21,24;35:5;	Society (1)
shelter (1)	80:24;105:12;115:25;	94:11;191:12	36:17;38:6,9,15;	81:2
33:15	123:1,1;131:17;	sitting (1)	40:15;41:17;43:6;	sodium (1)
shelves (2)	136:21;145:7;201:16;	113:7	45:14;48:2;49:16;	119:3
34:8;92:1	202:4,5,12,19,25;	situation (2)	51:20;53:4;55:18;	SOE (12)
shift (1)	203:2,7,13,16,17;	29:20;203:25	58:15;60:17;62:18;	16:20;17:9,17;21:4;
181:7 ship (1)	205:8;218:24;220:10,	situations (3)	63:18;66:4;67:10,15,	65:5,14,19;110:8;
27:18	22;221:4;234:24 Sideman (1)	108:5;109:20;160:5 six (6)	17,19;69:4;70:4;73:9, 16,19;75:23;77:20;	176:12;199:14,15; 233:19
shipped (1)	163:20	61:2;175:14;	79:1,10;81:14,17;	soft (1)
21:16	sides (2)	176:17;194:12;	83:7,15;85:17;86:2,7,	27:23
shippers (1)	202:16;203:15	231:21,22	10,13,16,21,24;87:4;	soil (45)
87:11	sideways (1)	six-month (1)	89:17;90:4;91:12,14,	27:2;31:5,5,6;
shipping (1)	205:24	176:17	19;94:3;95:4,7;96:21;	44:17;47:9;75:13;
113:24	siding (1)	size (2)	97:23;99:5,14,18;	76:19;78:13;90:15;
ships (1)	81:2	6:9;124:11	100:1;101:25;102:4;	100:14,17,19,19,23,
137:10	sifted (1)	sizes (1)	103:11;104:18,21,24;	24,25;101:7,9,9,12;
Shistar (9)	133:15	88:2	106:14,18,23;109:5;	102:23;103:21;
38:9,14,19,19;41:7;	sign (2)	skillsets (1)	110:25;114:17,19;	105:13;115:7,12,15,
42:2,11,15,24 shocked (1)	21:20;138:22 signed (4)	190:4 sky (3)	115:18;116:7;117:7; 118:18,21;121:3,22;	17;129:25;130:25; 131:20,21;132:2;
24:7	13:2;141:16,17;	131:22;202:16;	123:9,11;125:17;	142:25;143:15;
shocking (1)	225:8	203:5	127:4;128:8,18,21;	144:13;145:7;162:21;
193:17	significant (6)	skyrocket (1)	129:2;131:7,10;	177:25;196:4,12;
shop (2)	88:20;147:17;	198:13	133:12;134:8;135:10,	229:3,5,6,7
34:14;71:23	151:18;154:6,19;	slate (1)	15,17;138:6;139:18;	soils (1)
shores (1)	216:15	12:21	141:10,22;144:5;	33:18
49:8	significantly (3)	slaughterhouse (1)	146:2,5,10,15,17,21;	sold (7)
short (8)	156:16;167:11;	236:22	148:24;151:2;153:13;	47:13;93:21;
16:7;93:10;115:6;	226:2	slide (13)	154:24;155:2;157:9,	148:12;151:8,10,13;
155:7;173:22;177:3;	signify (1)	5:18;11:23,24;	15,17,21;160:12,15;	231:24
209:24;215:18	19:8	12:22;57:18;188:10,	162:23;164:21;	sole (2)

96:9.10 solely (2) 21:21:157:2 solids (1) 31:19 solution (4) 156:10:182:14: 201:16,20 solution-oriented (1) 192:10 solutions (4) 24:21:126:18; 176:22:184:11 solvent (2) 108:8,19 solvents (1) 109:24 somebody (3) 26:6;105:10;164:14 someone (5) 68:12;76:24;100:3; 181:23;217:18 sometime (1) 143:13 sometimes (11) 7:4,16;29:17;36:9; 71:10;111:13;126:5; 148:11:150:21; 218:23;220:9 somewhat (5) 74:13:129:22; 130:4:132:19:205:3 somewhere (3) 63:7;114:8;153:18 son (1) 100:8 soon (5)7:7;8:17;79:8; 178:5:225:19 soonish (1) 22:5 sorry (29) 10:19;13:1;56:8; 66:21,22;73:13,14,16; 77:9,11;86:25;95:11, 20;96:12;115:21; 119:10;129:2;139:12; 144:25;146:11; 152:17;157:21; 185:13;187:12;193:9; 194:18;204:23; 235:23;238:4 sort (31) 35:13;36:25;42:9; 50:6;59:5;66:16; 90:12;97:5;103:4; 134:13;147:25; 151:24;153:23;154:9; 164:3,4;168:10; 169:16,23:175:6,17; 182:8;188:1;205:25; 209:8,12;214:1; 228:11;235:19;236:1;

237:11 sorting (1) 150:9 **SOS** (2) 125:14:128:6 **SOS's (1)** 125:20 sound (6) 8:8,9;21:24;171:8; 178:15:182:17 sounded (1) 212:24 sounds (4) 76:7;80:14;122:16; 182:24 source (8) 50:24,25;96:9,10; 163:14;202:21;210:3; 235:7 sourced (3) 62:1,2;216:16 sources (5) 50:25;156:24; 197:6,7;229:25 sourcing (1) 216:12 South (1) 100:9 southeast (2) 71:15:236:8 Sov (1) 108:11 sovbean (8) 28:18:62:9.11.12: 108:19;112:12; 113:21;136:23 sovbeans (18) 23:4;27:2,7,7; 28:17;61:7,7,16;62:4; 100:13:135:22; 178:25;179:3;198:14, 15,21;232:1,2 space (9) 29:5;43:25;68:7; 107:2;127:13,14,25; 158:21;219:23 spaces (1) 158:22 spade (2) 105:21,21 Spalding (10) 157:25;160:16; 166:3,4,6;168:16; 169:22;170:8,18,22 speak (20) 7:11,20;8:7;18:6,8; 22:17;23:23;29:6; 33:9;63:23;85:25; 97:20;117:10;145:2; 197:19;204:5;218:15; 232:21.22:234:2 **SPEAKER (5)** 10:11;11:6;13:23;

234:3,12 Speakers (11) 7:9;12:24,25,25; 13:1,2,5,13;64:15; 66:25;225:7 speaker's (2) 9:17;13:12 speaking (10) 64:1;66:25;78:7; 105:23;123:14;178:9, 10;185:10;199:17; 205:22 speaks (1) 117:14 Specialist (3) 5:5;91:22;190:11 specialty (1) 27:21 species (3) 33:15;156:14; 223:25 specific (11) 45:8;85:11,20;91:9; 124:7:133:24:161:9: 170:12;191:22;230:4; 237:11 specifically (16) 21:6;36:22;74:8,19; 96:17,24;112:12; 113:20;124:9;132:1; 138:11:147:4:192:13, 25:209:21:214:25 specifics (4) 24:20;76:20;78:21; 139:8 spectrum (1) 204:9 speed (2) 58:3;234:25 spend (3) 35:24:215:17:236:6 spending (5) 191:4;194:21; 198:1;207:3;222:8 spent (4) 35:1;107:2;117:17; 163:15 spikes (3) 203:10;206:15,24 spirit (2) 79:19;84:3 spoke (3) 44:9;113:13;174:2 spoken (2) 57:21;101:16 spores (1) 223:15 spot (5) 95:11;117:14; 121:14;170:2;237:15 spouses (1) 116:9 spread (2)

102:20:103:9 spreading (1) 175:19 Spring (9) 33:3,10:142:9; 156:7;172:2,6; 178:25;179:4;237:22 Springs (1) 114:23 squeeze (3) 94:21;97:2,22 stability (1) 198:25 stabilization (1) 217:23 stable (3) 82:11;156:8;218:5 staff (5) 11:21;89:13;148:7; 170:13;190:15 stage (3) 165:19;181:17; 192:22 staged (1) 113:25 stages (2) 124:3;236:18 stagnated (1) 54:9 stakeholder (2) 43:21;171:17 stakeholders (5) 81:11:83:5:92:9: 132:8:172:16 stance (1) 55:24 standard (8) 31:10;35:4;70:11; 152:14:155:10: 211:14,16;213:4 Standards (53) 5:6;8:21,25;9:10; 12:2;20:12;32:14; 34:14;37:9,9,10,13; 48:10;53:19;54:21, 23;56:5,6;65:1;67:23; 68:2,3,22;69:2;90:11; 130:10;131:4;143:12; 152:7;155:21;158:4; 162:16;164:19; 167:13:173:16; 183:17,25;186:9,12, 13,17;195:16;199:18, 25;208:6,13,22; 211:12,13,19;217:7; 224:24;227:19 standpoint (5) 127:17;128:1; 139:3;218:17;237:3 standstill (1) 211:25 staple (1) 129:14

- Vol. 1 April 23, 2024

star-6 (5) 8:3,3;171:4;231:11; 238:3 start (24) 5:8;8:6;13:16; 22:15;23:2;45:24; 50:4;79:6;109:5; 114:12;135:19;136:4; 161:23;174:21; 179:22,25;193:18; 200:25;205:8;212:5; 232:8;233:20;234:10; 237:15 started (39) 8:9;12:21;22:12; 32:25;38:18;43:11; 45:20;53:11;60:20; 61:2,11;63:22;73:21; 79:14;81:19;87:7; 99:19;100:6,18; 103:25;106:4,24; 114:21:117:22: 128:23;142:2;146:24; 155:4:160:17:178:20: 182:23;188:7;195:2; 198:7;199:2;215:8; 222:18;231:17; 234:20 starting (3) 17:16:63:3:93:2 starts (3) 83:2:112:8:180:2 start-up (1) 68:13 state (60) 8:5;13:15;19:14; 32:24:38:17:43:10: 45:19;53:10;60:19; 62:6;63:21;71:7; 73:20;75:20;77:25; 79:13;81:19;82:4,7, 13,14,22,24;83:2,4; 87:6;99:18;101:21; 106:23;114:20; 127:16;128:22; 129:24;138:2,23; 142:1;146:24;152:12, 20;153:6,25;154:15; 155:3;158:1;160:16, 22;168:11;174:10; 178:19;182:22; 184:10;188:6;195:1; 215:7,10;222:17; 225:17;231:17; 234:19;236:7 stated (2) 55:22;205:4 statement (4) 50:23;109:12; 113:16:121:8 statements (2) 81:1:120:1 States (11)

63:6;68:20;80:20; 104:4:109:18:121:16: 138:19:174:18:195:6; 219:10:232:14 stateside (1) 113:7 stating (2) 62:3;134:21 status (3) 93:16,18:94:21 stay (5) 72:23;99:3;178:2; 188:1:217:23 staying (2) 29:12:88:5 steady (6) 198:12;199:1; 200:2;203:4,5,15 S-tech (1) 31:21 step (6) 32:10;54:3;161:20, 20,22;209:20 stepping (2) 107:18;108:23 steps (6) 15:12;19:1;67:24; 122:12;183:13; 201:11 stewardship (2) 156:22;157:1 stick (2) 59:17:62:18 sticker (3) 21:21:132:10,18 stickers (4) 67:6:132:10; 133:14:173:12 sticking (4) 21:5;233:23;236:4; 238:24 still (38) 18:21;27:25;34:6; 54:4;61:13:66:21; 69:11;96:7;102:18, 18;108:3;115:15,16, 17;116:1,1;117:2,3, 25,25;118:13,13; 136:13,15;138:1,4; 140:4,19;149:17; 151:20;154:1;161:20; 180:20:194:15:214:3: 229:24;230:6,12 stock (1) 208:19 stole (1) 163:19 stomach (1) 80:13 Stonyfield (1) 20:3 stood (1) 150:14

stop (1)61:24 stopped (2) 162:6:181:19 storage (4) 216:15,20;220:9; 228:22 store (2) 33:21;148:11 stored (3) 21:16,17;220:19 stores (3) 35:12,24;71:23 story (4) 16:8;35:11;150:5; 180:18 straight (1) 42:17 straightforward (2) 112:18;113:3 strategic (1) 64:8 strategies (2) 224:8.16 strategy (1) 223:20 strawberries (2) 222:23:224:12 stream (3) 67:4.8:151:9 streams (2) 151:7:202:9 strengthen (2) 47:25:62:17 strengthening (6) 15:16;53:17;65:3; 123:14;169:2;232:25 stress (2) 15:9;224:14 strict (1) 186:12 stricter (2) 167:12;232:4 stringent (3) 41:2;162:16;164:20 stringently (1) 125:5 strive (2) 169:13;198:23 strong (4) 40:3,20;84:15; 144:1 strongly (9) 31:25;32:6;88:21; 107:18;108:16;109:3; 113:3;160:10;166:22 structural (1) 216:21 structure (2) 215:25;220:4 struggle (6) 62:8:63:10:112:7: 117:21;126:5;176:5

struggles (1) 232:22 struggling (4) 25:5:115:22:167:1: 184:11 studies (1) 32:5 study (2) 150:19;154:13 stuff (18) 61:22;74:7;76:20; 90:23;103:25;104:15; 113:2:132:1:149:9. 13;151:13;175:17,25; 202:22;205:2;231:24; 234:6;236:24 stupid (1) 132:20 subclass (1) 42:12 subcommittee (11) 18:4:55:6:87:17: 90:10;119:9,22; 120:11;121:1;142:23; 155:14;172:10 subcommittees (1) 88:7 subject (1) 92:8 subjects (1) 213:2 submission (1) 121:2 submit (2) 46:22:179:6 submitted (12) 15:2;41:25;46:2,3, 6;52:19;55:20; 112:20,21;123:19; 178:25:225:22 submitting (1) 48:5 subsequent (1) 93:16 subsequently (1) 93:6 subsidized (1) 82:24 substance (6) 47:21;50:2;52:4; 85:21:92:22:93:2 substances (24) 20:6;23:14,16,22; 40:5,6;46:23;47:6,17, 24;80:9,15;84:2,8,20; 85:11;92:8,8;93:11; 120:9;124:20;159:10, 21:196:4 substantially (3) 27:11:31:6:144:1 substantive (3) 171:23;175:24; 177:18

substitute (2) 40:4.12 substrates (1) 55:11 subtraction (1) 15:21 succeed (2) 62:15;199:25 success (3) 35:18:36:14:180:18 successes (2) 104:6;180:19 successful (5) 75:17;76:25;78:16; 80:6:89:4 successfully (2) 26:10;77:17 succinctly (1) 13:10 suffer (2) 72:19;224:20 suffered (1) 184:8 suffering (1) 69:20 sufficient (4) 42:20;56:19;84:20; 196:3 sugars (1) 99:22 suggest (4) 124:19:125:7: 130:1:197:4 suggested (1) 64:1 suggesting (1) 191:7 suggestion (1) 126:13 suggestions (5) 50:2;111:10;173:5; 190:16;193:10 suggests (1) 189:18 sulfate (3) 88:9;223:4;224:18 sulfur (1) 224:13 summarize (2) 5:19;177:13 summarizing (1) 207:9 summation (1) 92:13 sunflower (1) 23:5 sunflowers (3) 23:4:26:24:27:7 sunlight (1) 203:23 sunset (17) 20:17:84:19:85:1,2; 87:16;88:6;92:4,6,9; - Vol. 1 April 23, 2024

96:24;142:8;155:15; 156:1:171:16:172:3. 4:207:18 sunsets (3) 40:6;41:25;160:4 super (1) 110:13 superfast (1) 168:18 supplied (1) 85:3 supplier (3) 30:24;109:21,22 suppliers (1) 119:17 supplies (2) 87:25;199:6 supply (39) 21:13;32:4;35:15; 46:9,16;47:24;48:7; 107:3,14:109:18,21; 110:19:112:1.6: 119:19;120:15;123:5, 7;124:3;126:17; 143:9;151:19;156:8; 183:4,6,8,12,15; 199:23;200:18;202:4, 10,10;203:19;209:11; 210:12,13;225:24; 235:9 supplying (1) 107:11 support (46) 14:24:20:18.20: 42:19,21,22;43:1; 59:21;61:24;65:21; 75:18:82:16:83:25: 84:21:88:21:91:11: 103:13,18;119:21; 124:22;135:13;137:1; 140:24;142:20;144:2, 10:155:17:156:8; 158:13;160:1,2,7,24; 172:9;184:16;190:13, 14,15,20;193:21; 197:10;198:24; 199:16;200:3;208:17; 235:22 supported (3) 71:25;189:13; 201:13 supporting (5) 11:22;73:2;116:10; 141:12;232:16 supportive (2) 133:17;134:1 supports (16) 55:1;64:14;93:4; 119:2;120:23;172:9; 184:12:223:7,8,16,22; 224:4,9,17;226:2; 227:5 supportzoomus (1)

Min-U-Script®

Burke Court Reporting & Transcription (973) 692-0660 (39) stateside - supportzoomus

				ripin 23, 2024
7:3	234:14	202:3;205:7;219:24;	techniques (3)	23:2,21;46:9,19,20;
suppose (1)	sweet (6)	233:21;234:23	20:1;34:21,22	48:6,15,18;49:10,18,
168:24	33:23;87:11;	talked (11)	technological (2)	23,24;50:1,2,7;51:11;
supposed (4)	230:20,22,23,24	27:6;29:16;56:1;	<u> </u>	
	swing (2)		34:21,22 technologies (1)	52:1,5;61:22,24;
95:21;99:23; 116:12;122:14	146:8;221:1	117:15,15;130:5;	98:16	64:14;101:15;109:13,
<i>,</i>		137:11;175:15;220:2;		17,18;110:5;111:8;
supposedly (1)	switch (1)	227:25;231:19	technologist (1)	113:2;123:21;124:4,
72:2	32:6	talker (1)	193:21	10,18;125:1,8,12,21;
sure (52)	switched (2)	168:18	technology (2)	131:1;137:10,10;
7:9;9:18;22:13;	24:6;27:20	talking (22)	99:2;123:25	141:12;150:11;
27:6;29:9;38:10;42:8;	Sydni (9)	8:17;27:1;35:25;	tee (1)	167:15,16;168:8;
45:21;46:24;49:4;	106:19;114:19;	57:15;60:16;69:9;	18:12	175:25;183:8,11,16,
73:22;77:24;81:21;	118:21,23;121:4,6,24,	74:11;77:12;105:4;	telling (2)	19,23;184:1;185:3,7,
87:1;90:6;99:4;106:3,	25;123:9	108:15;113:11;128:1;	67:18;175:12	16,20;186:7,13;
25;114:16;121:6,20,	sync (1)	132:8;171:2;177:14;	temperature (1)	199:14,16;200:9;
21;128:15;133:11;	83:24	188:20;199:19;	130:12	207:11,12,14,19,21,
134:11,25;135:16;	synthesize (1)	201:22;212:11;	temperatures (1)	23,24;208:2,7,10,14,
140:8;146:18;153:16,	193:7	220:25;233:17,20	228:21	16;209:10,10,21;
22;163:18;169:5;	synthetic (24)	talks (2)	template (10)	210:1;212:14,17;
170:3,5,14;176:23;	36:5;39:4,19;42:24;	52:1,4	18:4;55:2,3;59:6;	213:6,16;225:24
185:1,17,23;186:2,23;	46:5;50:9;69:24;71:3;	tangible (2)	97:24;213:7;214:10,	tests (8)
190:5;191:2;200:10;	79:24;84:8;92:25;	182:5;193:10	12,18,19	23:17;50:10,16;
201:17;210:18;211:4;	93:1,1,3;124:20;	tank (1)	temporary (1)	51:7,10;100:24,25;
212:4,18;218:19;	131:2;133:23;134:20;	21:21	202:24	226:21
234:9	151:22;152:14;161:4;	tanks (1)	tended (1)	Tetherow (4)
surface (2)	166:16,23;208:18	143:23	33:13	207:5;215:6;222:9;
33:19;89:10	synthetically (1)	tap (1)	tenet (1)	238:16
surfactants (1)	80:22	8:3	188:17	thanking (1)
84:13	synthetics (1)	target (1)	tent (2)	22:15
surgery (1)	40:2	226:8	17:7;82:16	Thanks (203)
160:6	system (25)	targeted (1)	term (8)	5:12;10:14;12:4;
surprise (1)	15:24,24;17:13;	108:12	42:10;59:19;82:4,	14:9;16:11,17,19;
21:6	22:1;40:14;57:25;	targets (1)	19;159:3;172:18,20;	17:14;18:11;19:3;
surprisingly (1)	58:3,8;61:11;64:17,	82:9	173:10	22:2,9;24:25;25:3;
193:17	22;65:18;79:24;	tart (1)	terms (7)	29:25;30:2;32:15;
surrounded (1)	80:11;82:1;108:5,6,7;	33:23	59:24;88:6;91:7,8;	35:5;36:18;38:6,6;
33:14	163:20;166:8;167:6;	task (2)	1 / 7.16.1 / 1.1 /.	
			172:16;174:17;	40:15,17,18;41:17,19;
surveillance (1)	172:24;188:18;	5:24;227:18	201:10	43:7;45:14,22;48:2;
213:25	172:24;188:18; 206:24;210:10	5:24;227:18 taskbar (2)	201:10 terribly (3)	43:7;45:14,22;48:2; 49:15;50:12;53:4;
213:25 survey (2)	172:24;188:18; 206:24;210:10 systems (10)	5:24;227:18 taskbar (2) 6:7;7:24	201:10 terribly (3) 109:3;112:17;	43:7;45:14,22;48:2; 49:15;50:12;53:4; 55:18,19,20;58:15;
213:25 survey (2) 65:24;69:11	172:24;188:18; 206:24;210:10 systems (10) 19:25;47:11;53:24;	5:24;227:18 taskbar (2) 6:7;7:24 tastings (1)	201:10 terribly (3) 109:3;112:17; 209:25	43:7;45:14,22;48:2; 49:15;50:12;53:4; 55:18,19,20;58:15; 60:14,15;62:18;
213:25 survey (2) 65:24;69:11 surveying (1)	172:24;188:18; 206:24;210:10 systems (10) 19:25;47:11;53:24; 54:19,23;57:1;66:2;	5:24;227:18 taskbar (2) 6:7;7:24 tastings (1) 35:25	201:10 terribly (3) 109:3;112:17; 209:25 Terry (11)	43:7;45:14,22;48:2; 49:15;50:12;53:4; 55:18,19,20;58:15; 60:14,15;62:18; 63:18,23;66:4;67:10;
213:25 survey (2) 65:24;69:11 surveying (1) 218:19	172:24;188:18; 206:24;210:10 systems (10) 19:25;47:11;53:24;	5:24;227:18 taskbar (2) 6:7;7:24 tastings (1) 35:25 taxing (1)	201:10 terribly (3) 109:3;112:17; 209:25 Terry (11) 38:9,12,12,16,19;	43:7;45:14,22;48:2; 49:15;50:12;53:4; 55:18,19,20;58:15; 60:14,15;62:18; 63:18,23;66:4;67:10; 69:4,7;70:4;73:9,22;
213:25 survey (2) 65:24;69:11 surveying (1) 218:19 survival (1)	172:24;188:18; 206:24;210:10 systems (10) 19:25;47:11;53:24; 54:19,23;57:1;66:2; 84:16;123:14;143:5	5:24;227:18 taskbar (2) 6:7;7:24 tastings (1) 35:25 taxing (1) 115:3	201:10 terribly (3) 109:3;112:17; 209:25 Terry (11) 38:9,12,12,16,19; 40:15,17;41:17,19;	43:7;45:14,22;48:2; 49:15;50:12;53:4; 55:18,19,20;58:15; 60:14,15;62:18; 63:18,23;66:4;67:10; 69:4,7;70:4;73:9,22; 75:22,23;76:1;77:23;
213:25 survey (2) 65:24;69:11 surveying (1) 218:19 survival (1) 122:13	172:24;188:18; 206:24;210:10 systems (10) 19:25;47:11;53:24; 54:19,23;57:1;66:2;	5:24;227:18 taskbar (2) 6:7;7:24 tastings (1) 35:25 taxing (1) 115:3 teaching (1)	201:10 terribly (3) 109:3;112:17; 209:25 Terry (11) 38:9,12,12,16,19; 40:15,17;41:17,19; 43:6,7	43:7;45:14,22;48:2; 49:15;50:12;53:4; 55:18,19,20;58:15; 60:14,15;62:18; 63:18,23;66:4;67:10; 69:4,7;70:4;73:9,22; 75:22,23;76:1;77:23; 79:1;81:14,15;83:7,
213:25 survey (2) 65:24;69:11 surveying (1) 218:19 survival (1) 122:13 survive (4)	172:24;188:18; 206:24;210:10 systems (10) 19:25;47:11;53:24; 54:19,23;57:1;66:2; 84:16;123:14;143:5 T	5:24;227:18 taskbar (2) 6:7;7:24 tastings (1) 35:25 taxing (1) 115:3 teaching (1) 126:9	201:10 terribly (3) 109:3;112:17; 209:25 Terry (11) 38:9,12,12,16,19; 40:15,17;41:17,19; 43:6,7 test (35)	43:7;45:14,22;48:2; 49:15;50:12;53:4; 55:18,19,20;58:15; 60:14,15;62:18; 63:18,23;66:4;67:10; 69:4,7;70:4;73:9,22; 75:22,23;76:1;77:23; 79:1;81:14,15;83:7, 15,16;85:17;87:2,3,8,
213:25 survey (2) 65:24;69:11 surveying (1) 218:19 survival (1) 122:13 survive (4) 68:10,18;71:16,19	172:24;188:18; 206:24;210:10 systems (10) 19:25;47:11;53:24; 54:19,23;57:1;66:2; 84:16;123:14;143:5 T TA (1)	5:24;227:18 taskbar (2) 6:7;7:24 tastings (1) 35:25 taxing (1) 115:3 teaching (1) 126:9 team (4)	201:10 terribly (3) 109:3;112:17; 209:25 Terry (11) 38:9,12,12,16,19; 40:15,17;41:17,19; 43:6,7 test (35) 8:8;13:17,21;47:2,	43:7;45:14,22;48:2; 49:15;50:12;53:4; 55:18,19,20;58:15; 60:14,15;62:18; 63:18,23;66:4;67:10; 69:4,7;70:4;73:9,22; 75:22,23;76:1;77:23; 79:1;81:14,15;83:7, 15,16;85:17;87:2,3,8, 9;89:17,20;90:3;
213:25 survey (2) 65:24;69:11 surveying (1) 218:19 survival (1) 122:13 survive (4) 68:10,18;71:16,19 suspending (1)	172:24;188:18; 206:24;210:10 systems (10) 19:25;47:11;53:24; 54:19,23;57:1;66:2; 84:16;123:14;143:5 T TA (1) 143:8	5:24;227:18 taskbar (2) 6:7;7:24 tastings (1) 35:25 taxing (1) 115:3 teaching (1) 126:9 team (4) 9:20,23;11:22;	201:10 terribly (3) 109:3;112:17; 209:25 Terry (11) 38:9,12,12,16,19; 40:15,17;41:17,19; 43:6,7 test (35) 8:8;13:17,21;47:2, 5,8,16;49:20,20;50:3,	43:7;45:14,22;48:2; 49:15;50:12;53:4; 55:18,19,20;58:15; 60:14,15;62:18; 63:18,23;66:4;67:10; 69:4,7;70:4;73:9,22; 75:22,23;76:1;77:23; 79:1;81:14,15;83:7, 15,16;85:17;87:2,3,8, 9;89:17,20;90:3; 91:12;94:3,6;96:21;
213:25 survey (2) 65:24;69:11 surveying (1) 218:19 survival (1) 122:13 survive (4) 68:10,18;71:16,19 suspending (1) 189:1	172:24;188:18; 206:24;210:10 systems (10) 19:25;47:11;53:24; 54:19,23;57:1;66:2; 84:16;123:14;143:5 T TA (1) 143:8 table (1)	5:24;227:18 taskbar (2) 6:7;7:24 tastings (1) 35:25 taxing (1) 115:3 teaching (1) 126:9 team (4) 9:20,23;11:22; 236:18	201:10 terribly (3) 109:3;112:17; 209:25 Terry (11) 38:9,12,12,16,19; 40:15,17;41:17,19; 43:6,7 test (35) 8:8;13:17,21;47:2, 5,8,16;49:20,20;50:3, 17,20,21,21;51:1,3,	43:7;45:14,22;48:2; 49:15;50:12;53:4; 55:18,19,20;58:15; 60:14,15;62:18; 63:18,23;66:4;67:10; 69:4,7;70:4;73:9,22; 75:22,23;76:1;77:23; 79:1;81:14,15;83:7, 15,16;85:17;87:2,3,8, 9;89:17,20;90:3; 91:12;94:3,6;96:21; 99:14;100:6;101:25;
213:25 survey (2) 65:24;69:11 surveying (1) 218:19 survival (1) 122:13 survive (4) 68:10,18;71:16,19 suspending (1) 189:1 suspicion (1)	172:24;188:18; 206:24;210:10 systems (10) 19:25;47:11;53:24; 54:19,23;57:1;66:2; 84:16;123:14;143:5 T TA (1) 143:8 table (1) 90:22	5:24;227:18 taskbar (2) 6:7;7:24 tastings (1) 35:25 taxing (1) 115:3 teaching (1) 126:9 team (4) 9:20,23;11:22; 236:18 tear (1)	201:10 terribly (3) 109:3;112:17; 209:25 Terry (11) 38:9,12,12,16,19; 40:15,17;41:17,19; 43:6,7 test (35) 8:8;13:17,21;47:2, 5,8,16;49:20,20;50:3, 17,20,21,21;51:1,3, 13;52:11;108:25;	43:7;45:14,22;48:2; 49:15;50:12;53:4; 55:18,19,20;58:15; 60:14,15;62:18; 63:18,23;66:4;67:10; 69:4,7;70:4;73:9,22; 75:22,23;76:1;77:23; 79:1;81:14,15;83:7, 15,16;85:17;87:2,3,8, 9;89:17,20;90:3; 91:12;94:3,6;96:21; 99:14;100:6;101:25; 102:7;103:8,12,13;
213:25 survey (2) 65:24;69:11 surveying (1) 218:19 survival (1) 122:13 survive (4) 68:10,18;71:16,19 suspending (1) 189:1 suspicion (1) 208:11	172:24;188:18; 206:24;210:10 systems (10) 19:25;47:11;53:24; 54:19,23;57:1;66:2; 84:16;123:14;143:5 T TA (1) 143:8 table (1) 90:22 tackled (1)	5:24;227:18 taskbar (2) 6:7;7:24 tastings (1) 35:25 taxing (1) 115:3 teaching (1) 126:9 team (4) 9:20,23;11:22; 236:18 tear (1) 216:6	201:10 terribly (3) 109:3;112:17; 209:25 Terry (11) 38:9,12,12,16,19; 40:15,17;41:17,19; 43:6,7 test (35) 8:8;13:17,21;47:2, 5,8,16;49:20,20;50:3, 17,20,21,21;51:1,3, 13;52:11;108:25; 109:11;112:21;113:7;	43:7;45:14,22;48:2; 49:15;50:12;53:4; 55:18,19,20;58:15; 60:14,15;62:18; 63:18,23;66:4;67:10; 69:4,7;70:4;73:9,22; 75:22,23;76:1;77:23; 79:1;81:14,15;83:7, 15,16;85:17;87:2,3,8, 9;89:17,20;90:3; 91:12;94:3,6;96:21; 99:14;100:6;101:25; 102:7;103:8,12,13; 104:16;106:14;109:5,
213:25 survey (2) 65:24;69:11 surveying (1) 218:19 survival (1) 122:13 survive (4) 68:10,18;71:16,19 suspending (1) 189:1 suspicion (1) 208:11 sustainability (7)	172:24;188:18; 206:24;210:10 systems (10) 19:25;47:11;53:24; 54:19,23;57:1;66:2; 84:16;123:14;143:5 T TA (1) 143:8 table (1) 90:22 tackled (1) 191:21	5:24;227:18 taskbar (2) 6:7;7:24 tastings (1) 35:25 taxing (1) 115:3 teaching (1) 126:9 team (4) 9:20,23;11:22; 236:18 tear (1) 216:6 tear-wear (1)	201:10 terribly (3) 109:3;112:17; 209:25 Terry (11) 38:9,12,12,16,19; 40:15,17;41:17,19; 43:6,7 test (35) 8:8;13:17,21;47:2, 5,8,16;49:20,20;50:3, 17,20,21,21;51:1,3, 13;52:11;108:25; 109:11;112:21;113:7; 114:8;127:9;128:14;	43:7;45:14,22;48:2; 49:15;50:12;53:4; 55:18,19,20;58:15; 60:14,15;62:18; 63:18,23;66:4;67:10; 69:4,7;70:4;73:9,22; 75:22,23;76:1;77:23; 79:1;81:14,15;83:7, 15,16;85:17;87:2,3,8, 9;89:17,20;90:3; 91:12;94:3,6;96:21; 99:14;100:6;101:25; 102:7;103:8,12,13; 104:16;106:14;109:5, 8;114:17;115:18;
213:25 survey (2) 65:24;69:11 surveying (1) 218:19 survival (1) 122:13 survive (4) 68:10,18;71:16,19 suspending (1) 189:1 suspicion (1) 208:11 sustainability (7) 136:9,21;156:1,10,	172:24;188:18; 206:24;210:10 systems (10) 19:25;47:11;53:24; 54:19,23;57:1;66:2; 84:16;123:14;143:5 T TA (1) 143:8 table (1) 90:22 tackled (1) 191:21 tainted (1)	5:24;227:18 taskbar (2) 6:7;7:24 tastings (1) 35:25 taxing (1) 115:3 teaching (1) 126:9 team (4) 9:20,23;11:22; 236:18 tear (1) 216:6 tear-wear (1) 150:16	201:10 terribly (3) 109:3;112:17; 209:25 Terry (11) 38:9,12,12,16,19; 40:15,17;41:17,19; 43:6,7 test (35) 8:8;13:17,21;47:2, 5,8,16;49:20,20;50:3, 17,20,21,21;51:1,3, 13;52:11;108:25; 109:11;112:21;113:7; 114:8;127:9;128:14; 168:14;187:10,11;	43:7;45:14,22;48:2; 49:15;50:12;53:4; 55:18,19,20;58:15; 60:14,15;62:18; 63:18,23;66:4;67:10; 69:4,7;70:4;73:9,22; 75:22,23;76:1;77:23; 79:1;81:14,15;83:7, 15,16;85:17;87:2,3,8, 9;89:17,20;90:3; 91:12;94:3,6;96:21; 99:14;100:6;101:25; 102:7;103:8,12,13; 104:16;106:14;109:5, 8;114:17;115:18; 116:2;117:19;118:18;
213:25 survey (2) 65:24;69:11 surveying (1) 218:19 survival (1) 122:13 survive (4) 68:10,18;71:16,19 suspending (1) 189:1 suspicion (1) 208:11 sustainability (7) 136:9,21;156:1,10, 16;157:3;217:4	172:24;188:18; 206:24;210:10 systems (10) 19:25;47:11;53:24; 54:19,23;57:1;66:2; 84:16;123:14;143:5 T TA (1) 143:8 table (1) 90:22 tackled (1) 191:21 tainted (1) 112:15	5:24;227:18 taskbar (2) 6:7;7:24 tastings (1) 35:25 taxing (1) 115:3 teaching (1) 126:9 team (4) 9:20,23;11:22; 236:18 tear (1) 216:6 tear-wear (1) 150:16 teat (1)	201:10 terribly (3) 109:3;112:17; 209:25 Terry (11) 38:9,12,12,16,19; 40:15,17;41:17,19; 43:6,7 test (35) 8:8;13:17,21;47:2, 5,8,16;49:20,20;50:3, 17,20,21,21;51:1,3, 13;52:11;108:25; 109:11;112:21;113:7; 114:8;127:9;128:14; 168:14;187:10,11; 199:10;207:17,20;	43:7;45:14,22;48:2; 49:15;50:12;53:4; 55:18,19,20;58:15; 60:14,15;62:18; 63:18,23;66:4;67:10; 69:4,7;70:4;73:9,22; 75:22,23;76:1;77:23; 79:1;81:14,15;83:7, 15,16;85:17;87:2,3,8, 9:89:17,20;90:3; 91:12;94:3,6;96:21; 99:14;100:6;101:25; 102:7;103:8,12,13; 104:16;106:14;109:5, 8;114:17;115:18; 116:2;117:19;118:18; 121:3,23,25;122:24;
213:25 survey (2) 65:24;69:11 surveying (1) 218:19 survival (1) 122:13 survive (4) 68:10,18;71:16,19 suspending (1) 189:1 suspicion (1) 208:11 sustainability (7) 136:9,21;156:1,10, 16;157:3;217:4 sustainable (14)	172:24;188:18; 206:24;210:10 systems (10) 19:25;47:11;53:24; 54:19,23;57:1;66:2; 84:16;123:14;143:5 T TA (1) 143:8 table (1) 90:22 tackled (1) 191:21 tainted (1) 112:15 takeaways (1)	5:24;227:18 taskbar (2) 6:7;7:24 tastings (1) 35:25 taxing (1) 115:3 teaching (1) 126:9 team (4) 9:20,23;11:22; 236:18 tear (1) 216:6 tear-wear (1) 150:16 teat (1) 42:5	201:10 terribly (3) 109:3;112:17; 209:25 Terry (11) 38:9,12,12,16,19; 40:15,17;41:17,19; 43:6,7 test (35) 8:8;13:17,21;47:2, 5,8,16;49:20,20;50:3, 17,20,21,21;51:1,3, 13;52:11;108:25; 109:11;112:21;113:7; 114:8;127:9;128:14; 168:14;187:10,11; 199:10;207:17,20; 212:20;213:24;	43:7;45:14,22;48:2; 49:15;50:12;53:4; 55:18,19,20;58:15; 60:14,15;62:18; 63:18,23;66:4;67:10; 69:4,7;70:4;73:9,22; 75:22,23;76:1;77:23; 79:1;81:14,15;83:7, 15,16;85:17;87:2,3,8, 9:89:17,20;90:3; 91:12;94:3,6;96:21; 99:14;100:6;101:25; 102:7;103:8,12,13; 104:16;106:14;109:5, 8;114:17;115:18; 116:2;117:19;118:18; 121:3,23,25;122:24; 123:9;125:17,20;
213:25 survey (2) 65:24;69:11 surveying (1) 218:19 survival (1) 122:13 survive (4) 68:10,18;71:16,19 suspending (1) 189:1 suspicion (1) 208:11 sustainability (7) 136:9,21;156:1,10, 16;157:3;217:4 sustainable (14) 15:18;27:9,13;	172:24;188:18; 206:24;210:10 systems (10) 19:25;47:11;53:24; 54:19,23;57:1;66:2; 84:16;123:14;143:5 T TA (1) 143:8 table (1) 90:22 tackled (1) 191:21 tainted (1) 112:15 takeaways (1) 105:6	5:24;227:18 taskbar (2) 6:7;7:24 tastings (1) 35:25 taxing (1) 115:3 teaching (1) 126:9 team (4) 9:20,23;11:22; 236:18 tear (1) 216:6 tear-wear (1) 150:16 teat (1) 42:5 teats (1)	201:10 terribly (3) 109:3;112:17; 209:25 Terry (11) 38:9,12,12,16,19; 40:15,17;41:17,19; 43:6,7 test (35) 8:8;13:17,21;47:2, 5,8,16;49:20,20;50:3, 17,20,21,21;51:1,3, 13;52:11;108:25; 109:11;112:21;113:7; 114:8;127:9;128:14; 168:14;187:10,11; 199:10;207:17,20; 212:20;213:24; 228:24;229:6	43:7;45:14,22;48:2; 49:15;50:12;53:4; 55:18,19,20;58:15; 60:14,15;62:18; 63:18,23;66:4;67:10; 69:4,7;70:4;73:9,22; 75:22,23;76:1;77:23; 79:1;81:14,15;83:7, 15,16;85:17;87:2,3,8, 9;89:17,20;90:3; 91:12;94:3,6;96:21; 99:14;100:6;101:25; 102:7;103:8,12,13; 104:16;106:14;109:5, 8;114:17;115:18; 116:2;117:19;118:18; 121:3,23,25;122:24; 123:9;125:17,20; 128:8,18;131:7,13;
213:25 survey (2) 65:24;69:11 surveying (1) 218:19 survival (1) 122:13 survive (4) 68:10,18;71:16,19 suspending (1) 189:1 suspicion (1) 208:11 sustainability (7) 136:9,21;156:1,10, 16;157:3;217:4 sustainable (14) 15:18;27:9,13; 83:24;136:23,25;	172:24;188:18; 206:24;210:10 systems (10) 19:25;47:11;53:24; 54:19,23;57:1;66:2; 84:16;123:14;143:5 T TA (1) 143:8 table (1) 90:22 tackled (1) 191:21 tainted (1) 112:15 takeaways (1) 105:6 talk (23)	5:24;227:18 taskbar (2) 6:7;7:24 tastings (1) 35:25 taxing (1) 115:3 teaching (1) 126:9 team (4) 9:20,23;11:22; 236:18 tear (1) 216:6 tear-wear (1) 150:16 teat (1) 42:5 teats (1) 129:11	201:10 terribly (3) 109:3;112:17; 209:25 Terry (11) 38:9,12,12,16,19; 40:15,17;41:17,19; 43:6,7 test (35) 8:8;13:17,21;47:2, 5,8,16;49:20,20:50:3, 17,20,21,21;51:1,3, 13;52:11;108:25; 109:11;112:21;113:7; 114:8;127:9;128:14; 168:14;187:10,11; 199:10;207:17,20; 212:20;213:24; 228:24;229:6 tested (7)	43:7;45:14,22;48:2; 49:15;50:12;53:4; 55:18,19,20;58:15; 60:14,15;62:18; 63:18,23;66:4;67:10; 69:4,7;70:4;73:9,22; 75:22,23;76:1;77:23; 79:1;81:14,15;83:7, 15,16;85:17;87:2,3,8, 9;89:17,20;90:3; 91:12;94:3,6;96:21; 99:14;100:6;101:25; 102:7;103:8,12,13; 104:16;106:14;109:5, 8;114:17;115:18; 116:2;117:19;118:18; 121:3,23,25;122:24; 123:9;125:17,20; 128:8,18;131:7,13; 133:9,9,13;134:8,9;
213:25 survey (2) 65:24;69:11 surveying (1) 218:19 survival (1) 122:13 survive (4) 68:10,18;71:16,19 suspending (1) 189:1 suspicion (1) 208:11 sustainability (7) 136:9,21;156:1,10, 16;157:3;217:4 sustainable (14) 15:18;27:9,13; 83:24;136:23,25; 137:1,2,3;139:20,20,	172:24;188:18; 206:24;210:10 systems (10) 19:25;47:11;53:24; 54:19,23;57:1;66:2; 84:16;123:14;143:5 T TA (1) 143:8 table (1) 90:22 tackled (1) 191:21 tainted (1) 112:15 takeaways (1) 105:6 talk (23) 17:18;23:24;26:21;	5:24;227:18 taskbar (2) 6:7;7:24 tastings (1) 35:25 taxing (1) 115:3 teaching (1) 126:9 team (4) 9:20,23;11:22; 236:18 tear (1) 216:6 tear-wear (1) 150:16 teat (1) 42:5 teats (1) 129:11 technical (10)	201:10 terribly (3) 109:3;112:17; 209:25 Terry (11) 38:9,12,12,16,19; 40:15,17;41:17,19; 43:6,7 test (35) 8:8;13:17,21;47:2, 5,8,16;49:20,20;50:3, 17,20,21,21;51:1,3, 13;52:11;108:25; 109:11;112:21;113:7; 114:8;127:9;128:14; 168:14;187:10,11; 199:10;207:17,20; 212:20;213:24; 228:24;229:6 tested (7) 23:13,15;47:13;	43:7;45:14,22;48:2; 49:15;50:12;53:4; 55:18,19,20;58:15; 60:14,15;62:18; 63:18,23;66:4;67:10; 69:4,7;70:4;73:9,22; 75:22,23;76:1;77:23; 79:1;81:14,15;83:7, 15,16;85:17;87:2,3,8, 9;89:17,20;90:3; 91:12;94:3,6;96:21; 99:14;100:6;101:25; 102:7;103:8,12,13; 104:16;106:14;109:5, 8;114:17;115:18; 116:2;117:19;118:18; 121:3,23,25;122:24; 123:9;125:17,20; 128:8,18;131:7,13; 133:9,9,13;134:8,9; 135:2,5;138:6,9;
213:25 survey (2) 65:24;69:11 surveying (1) 218:19 survival (1) 122:13 survive (4) 68:10,18;71:16,19 suspending (1) 189:1 suspicion (1) 208:11 sustainability (7) 136:9,21;156:1,10, 16;157:3;217:4 sustainable (14) 15:18;27:9,13; 83:24;136:23,25; 137:1,2,3;139:20,20, 22;156:22;166:11	172:24;188:18; 206:24;210:10 systems (10) 19:25;47:11;53:24; 54:19,23;57:1;66:2; 84:16;123:14;143:5 T TA (1) 143:8 table (1) 90:22 tackled (1) 191:21 tainted (1) 112:15 takeaways (1) 105:6 talk (23) 17:18;23:24;26:21; 27:3;29:5;38:21;41:3;	5:24;227:18 taskbar (2) 6:7;7:24 tastings (1) 35:25 taxing (1) 115:3 teaching (1) 126:9 team (4) 9:20,23;11:22; 236:18 tear (1) 216:6 tear-wear (1) 150:16 teat (1) 42:5 teats (1) 129:11 technical (10) 6:1;7:2;20:15;55:1;	201:10 terribly (3) 109:3;112:17; 209:25 Terry (11) 38:9,12,12,16,19; 40:15,17;41:17,19; 43:6,7 test (35) 8:8;13:17,21;47:2, 5,8,16;49:20,20;50:3, 17,20,21,21;51:1,3, 13;52:11;108:25; 109:11;112:21;113:7; 114:8;127:9;128:14; 168:14;187:10,11; 199:10;207:17,20; 212:20;213:24; 228:24;229:6 tested (7) 23:13,15;47:13; 110:10;166:25;	43:7;45:14,22;48:2; 49:15;50:12;53:4; 55:18,19,20;58:15; 60:14,15;62:18; 63:18,23;66:4;67:10; 69:4,7;70:4;73:9,22; 75:22,23;76:1;77:23; 79:1;81:14,15;83:7, 15,16;85:17;87:2,3,8, 9;89:17,20;90:3; 91:12;94:3,6;96:21; 99:14;100:6;101:25; 102:7;103:8,12,13; 104:16;106:14;109:5, 8;114:17;115:18; 116:2;117:19;118:18; 121:3,23,25;122:24; 123:9;125:17,20; 128:8,18;131:7,13; 133:9,9,13;134:8,9; 135:2,5;138:6,9; 141:11,22;144:5,8;
213:25 survey (2) 65:24;69:11 surveying (1) 218:19 survival (1) 122:13 survive (4) 68:10,18;71:16,19 suspending (1) 189:1 suspicion (1) 208:11 sustainability (7) 136:9,21;156:1,10, 16;157:3;217:4 sustainable (14) 15:18;27:9,13; 83:24;136:23,25; 137:1,2,3;139:20,20, 22;156:22;166:11 sustansive (1)	172:24;188:18; 206:24;210:10 systems (10) 19:25;47:11;53:24; 54:19,23;57:1;66:2; 84:16;123:14;143:5 T TA (1) 143:8 table (1) 90:22 tackled (1) 191:21 tainted (1) 112:15 takeaways (1) 105:6 talk (23) 17:18;23:24;26:21; 27:3;29:5;38:21;41:3; 62:23;68:1;72:3;74:5;	5:24;227:18 taskbar (2) 6:7;7:24 tastings (1) 35:25 taxing (1) 115:3 teaching (1) 126:9 team (4) 9:20,23;11:22; 236:18 tear (1) 216:6 tear-wear (1) 150:16 teat (1) 42:5 teats (1) 129:11 technical (10) 6:1;7:2;20:15;55:1; 91:21;120:22;123:16;	201:10 terribly (3) 109:3;112:17; 209:25 Terry (11) 38:9,12,12,16,19; 40:15,17;41:17,19; 43:6,7 test (35) 8:8;13:17,21;47:2, 5,8,16;49:20,20;50:3, 17,20,21,21;51:1,3, 13;52:11;108:25; 109:11;112:21;113:7; 114:8;127:9;128:14; 168:14;187:10,11; 199:10;207:17,20; 212:20;213:24; 228:24;229:6 tested (7) 23:13,15;47:13; 110:10;166:25; 199:18;208:6	$\begin{array}{r} 43:7;45:14,22;48:2;\\ 49:15;50:12;53:4;\\ 55:18,19,20;58:15;\\ 60:14,15;62:18;\\ 63:18,23;66:4;67:10;\\ 69:4,7;70:4;73:9,22;\\ 75:22,23;76:1;77:23;\\ 79:1;81:14,15;83:7,\\ 15,16;85:17;87:2,3,8,\\ 9;89:17,20;90:3;\\ 91:12;94:3,6;96:21;\\ 99:14;100:6;101:25;\\ 102:7;103:8,12,13;\\ 104:16;106:14;109:5,\\ 8;114:17;115:18;\\ 116:2;117:19;118:18;\\ 121:3,23,25;122:24;\\ 123:9;125:17,20;\\ 128:8,18;131:7,13;\\ 133:9,9,13;134:8,9;\\ 135:2,5;138:6,9;\\ 141:11,22;144:5,8;\\ 146:2,21,25;148:24;\\ \end{array}$
213:25 survey (2) 65:24;69:11 surveying (1) 218:19 survival (1) 122:13 survive (4) 68:10,18;71:16,19 suspending (1) 189:1 suspicion (1) 208:11 sustainability (7) 136:9,21;156:1,10, 16;157:3;217:4 sustainable (14) 15:18;27:9,13; 83:24;136:23,25; 137:1,2,3;139:20,20, 22;156:22;166:11 sustansive (1) 171:22	172:24;188:18; 206:24;210:10 systems (10) 19:25;47:11;53:24; 54:19,23;57:1;66:2; 84:16;123:14;143:5 T TA (1) 143:8 table (1) 90:22 tackled (1) 191:21 tainted (1) 112:15 takeaways (1) 105:6 talk (23) 17:18;23:24;26:21; 27:3;29:5;38:21;41:3; 62:23;68:1;72:3;74:5; 100:23;107:20;	5:24;227:18 taskbar (2) 6:7;7:24 tastings (1) 35:25 taxing (1) 115:3 teaching (1) 126:9 team (4) 9:20,23;11:22; 236:18 tear (1) 216:6 tear-wear (1) 150:16 teat (1) 42:5 teats (1) 129:11 technical (10) 6:1;7:2;20:15;55:1; 91:21;120:22;123:16; 127:13;139:3;190:10	201:10 terribly (3) 109:3;112:17; 209:25 Terry (11) 38:9,12,12,16,19; 40:15,17;41:17,19; 43:6,7 test (35) 8:8;13:17,21;47:2, 5,8,16;49:20,20;50:3, 17,20,21,21;51:1,3, 13;52:11;108:25; 109:11;112:21;113:7; 114:8;127:9;128:14; 168:14;187:10,11; 199:10;207:17,20; 212:20;213:24; 228:24;229:6 tested (7) 23:13,15;47:13; 110:10;166:25; 199:18;208:6 testimony (1)	$\begin{array}{c} 43:7;45:14,22;48:2;\\ 49:15;50:12;53:4;\\ 55:18,19,20;58:15;\\ 60:14,15;62:18;\\ 63:18,23;66:4;67:10;\\ 69:4,7;70:4;73:9,22;\\ 75:22,23;76:1;77:23;\\ 79:1;81:14,15;83:7,\\ 15,16;85:17;87:2,3,8,\\ 9;89:17,20;90:3;\\ 91:12;94:3,6;96:21;\\ 99:14;100:6;101:25;\\ 102:7;103:8,12,13;\\ 104:16;106:14;109:5,\\ 8;114:17;115:18;\\ 116:2;117:19;118:18;\\ 121:3,23,25;122:24;\\ 123:9;125:17,20;\\ 128:8,18;131:7,13;\\ 133:9,9,13;134:8,9;\\ 135:2,5;138:6,9;\\ 141:11,22;144:5,8;\\ 146:2,21,25;148:24;\\ 149:1;151:2,4,16;\\ \end{array}$
213:25 survey (2) 65:24;69:11 surveying (1) 218:19 survival (1) 122:13 survive (4) 68:10,18;71:16,19 suspending (1) 189:1 suspicion (1) 208:11 sustainability (7) 136:9,21;156:1,10, 16;157:3;217:4 sustainable (14) 15:18;27:9,13; 83:24;136:23,25; 137:1,2,3;139:20,20, 22;156:22;166:11 sustansive (1)	172:24;188:18; 206:24;210:10 systems (10) 19:25;47:11;53:24; 54:19,23;57:1;66:2; 84:16;123:14;143:5 T TA (1) 143:8 table (1) 90:22 tackled (1) 191:21 tainted (1) 112:15 takeaways (1) 105:6 talk (23) 17:18;23:24;26:21; 27:3;29:5;38:21;41:3; 62:23;68:1;72:3;74:5;	5:24;227:18 taskbar (2) 6:7;7:24 tastings (1) 35:25 taxing (1) 115:3 teaching (1) 126:9 team (4) 9:20,23;11:22; 236:18 tear (1) 216:6 tear-wear (1) 150:16 teat (1) 42:5 teats (1) 129:11 technical (10) 6:1;7:2;20:15;55:1; 91:21;120:22;123:16;	201:10 terribly (3) 109:3;112:17; 209:25 Terry (11) 38:9,12,12,16,19; 40:15,17;41:17,19; 43:6,7 test (35) 8:8;13:17,21;47:2, 5,8,16;49:20,20;50:3, 17,20,21,21;51:1,3, 13;52:11;108:25; 109:11;112:21;113:7; 114:8;127:9;128:14; 168:14;187:10,11; 199:10;207:17,20; 212:20;213:24; 228:24;229:6 tested (7) 23:13,15;47:13; 110:10;166:25; 199:18;208:6	$\begin{array}{r} 43:7;45:14,22;48:2;\\ 49:15;50:12;53:4;\\ 55:18,19,20;58:15;\\ 60:14,15;62:18;\\ 63:18,23;66:4;67:10;\\ 69:4,7;70:4;73:9,22;\\ 75:22,23;76:1;77:23;\\ 79:1;81:14,15;83:7,\\ 15,16;85:17;87:2,3,8,\\ 9;89:17,20;90:3;\\ 91:12;94:3,6;96:21;\\ 99:14;100:6;101:25;\\ 102:7;103:8,12,13;\\ 104:16;106:14;109:5,\\ 8;114:17;115:18;\\ 116:2;117:19;118:18;\\ 121:3,23,25;122:24;\\ 123:9;125:17,20;\\ 128:8,18;131:7,13;\\ 133:9,9,13;134:8,9;\\ 135:2,5;138:6,9;\\ 141:11,22;144:5,8;\\ 146:2,21,25;148:24;\\ \end{array}$

19;162:23;164:21,22; 236:19 tight (6) 171:12:173:21; 165:23:168:3.6: thoughtful (1) 77:20:102:4: 180:15:182:16:183:8: 184:21 170:19,21;173:18,20; 104:21:168:24; 184:23;186:3;188:3; 174:7;176:18,21; thoughts (20) 197:22.23 194:22;197:25;200:8; 35:16;36:22;40:21; 177:3;178:14;180:11, tile (3) 207:3,10:212:11,22; 14,15;181:25;182:1, 56:7;57:11;59:3; 7:10;8:11;13:23 215:5,14;217:17,20; till (8) 11,16,17,23;184:24; 90:18;97:1;151:17; 218:9;220:3;222:8, 186:2:188:2.3.8; 163:17:170:7:174:13; 38:16:100:14; 15:225:5,23:231:8; 102:11,12,12,13,17; 233:24;236:7;237:23; 190:23;191:1,16; 191:8,11;192:22; 192:4.5:193:14.16; 202:7;205:7;214:11; 103:5 238:2,23,24 194:20,21,21;196:25; 215:3;219:25 tillage (4) today's (2) 197:23,25;200:5; 100:18,21;102:14, 110:14;225:23 thousand (2) 205:12,12,13;207:2; 70:19:72:11 15 together (11) 209:5;210:23;212:7, thousands (1) tilled (1) 36:25;53:16;83:1; 10;215:2,5;221:5,19, 81:4 33:12 90:1;129:16;153:19; 21;222:7,7;224:22,23, thread (1) timeframe (1) 154:2,8;170:12; 24;225:2,5,20,20; 171:23 173:23;190:2 191:4 227:22,24;231:7,8; threat (3) timeframes (2) toggle (1) 82:5;88:20;217:4 232:19;233:21,22,23; 124:22;127:23 8:3 237:25;239:1 threatened (1) timeliness (3) toggling (1) 127:9,17,24 6:19 that's (1) 38:24 55:23 threatening (1) timely (4) Togo (1) that'll (1) 61:15 58:10;127:7,23; 62:3 14:4 three (22) 218:20 told (7) theme (2) 7:13;8:1,7;43:15; timer (9) 78:14;101:18; 15:8;57:20 46:24;53:21;84:18; 8:7,8,9,11;13:16,17, 113:14;138:25; therefore (2) 109:6,16;110:15; 21;14:4;109:6 140:18;141:15; 83:23;216:25 times (11) 114:22;130:11; 230:18 thereof (1) 137:25;138:18; 24:5;33:12;115:5; tomato (1) 219:25 171:13:172:4:179:18; 129:7:130:11:137:25; 46:19 thermal (1) 215:13;216:18;228:8, 143:11:180:5:187:25; tomatoes (1) 158:24 218:22:220:21 184:9 13.16 thicker (1) three-year (1) timetable (1) ton (7) 150:21 172:19 40:556:12;57:23;76:21; timing (2) 140:1,9;150:1;197:11 threshold (2) thinking (14) 165:17;184:15 49:10;58:21;59:12; 31:23;226:22 **Tony** (15) thrive (1) 64:5;76:8;83:22; tireless (2) 141:25;146:6,6,11, 13,15,22;234:13,13, 45:25:157:7 97:12;153:4;163:8; 166:10 165:17;174:6;176:22; tissue (1) 15,17,19,21;236:6; thriving (1) 182:12;191:5 12:17 158:24 237:25 third (5) throughout (4) tocopherols (8) took (6) 39:18:65:3:112:18; 46:16:104:4; 119:4;120:12,13, 65:4:103:3:170:20; 183:20;222:2 137:25;172:1 15,17,18,19,20 176:20;221:8;236:17 third-party (2) throwing (2) today (97) tool (5) 204:20,21 5:7,13;6:22;12:11; 205:8;212:2 200:10;220:3; thorough (2) thrust (1) 19:18;22:17,19;29:3; 223:12,18,23 40:23;229:14 202:14 30:2;33:9;38:7;40:17; tools (4) thoroughly (1) 143:18;200:19; Thursday (5) 43:15;46:7,7;48:5; 31:16 5:14;6:22;18:9; 55:20;57:12;62:21; 216:25;219:24 thoroughness (1) 239:1,5 63:18,24,25;64:16; top (11) 40:19 thus (3)68:1,19:76:3:77:23: 20:22:28:4:33:7; 85:4;155:21;215:21 Though (13) 79:1;81:5,15,25; 53:21:138:21:140:18. 12:13;56:16;57:11; thyroid (2) 82:20;88:13;89:15; 18:178:2:227:7; 80:14;196:10 228:8,13 132:19;144:6,20; 103:13;105:1;106:14; tied (2) topic (8) 150:11;177:13; 109:4,9;110:17,21; 202:20;206:9;210:19; 69:20;77:14 111:3,8;114:17; 16:9;45:1;54:18; 222:1;236:18 tie-in (1) 115:19;118:18;123:9, 171:16,17;172:24; 173:8:228:1 thought (16) 17:19 18;125:20;128:19; 41:14;77:11;126:4, tiered (1) 130:18;131:13; topics (16) 5;127:9;138:22; 96:1 135:11;136:2;138:1; 15:4:26:18,21; 152:11:171:18:185:2: ties (4) 141:12,22;142:21; 43:15;54:25;136:2; 194:2:208:4.5; 89:3:90:16:207:17: 146:3;157:15;160:1, 171:13,22;172:1,5; 214:15;219:6;221:10; 208:9 13,23;168:7;170:5; 175:23:176:3.4:

- Vol. 1 April 23, 2024

192:18;228:1;234:24 TOPP(1) 117:15 total (6) 17:2;31:19;50:18, 20;222:1,4 Totally (4) 170:1:178:1: 203:12;211:20 touch (3) 17:4;168:17,17 touched (3) 26:18;109:23;220:8 tough (5) 88:2,5;131:3; 198:15;205:21 touted (1) 75:5 toward (4) 15:21,23;204:8; 214:2 towards (3) 13:23;56:20;235:17 townhall (2) 172:1;176:12 toxaphene (1) 230:7 toxic (6) 39:2,13;69:21;80:9; 106:5;167:24 toxicity (1) 88:24 TR (9) 18:3;55:3;59:6; 97:24;144:15;145:12; 214:10,12,19 traceability (1) 210:14 track (3) 56:23:139:10: 216:24 tractor (2) 22:19;26:17 trade (8) 64:22;183:3; 203:13;204:10; 216:24;220:3;234:8, 24 traded (1) 34:7 tradition (1) 72:8 traditionalist (1) 115:12 train (1) 77:5 training (4) 66:8;130:24;166:9; 189:20 trainings (2) 64:9:66:9 transcript (2) 6:6:7:7

Burke Court Reporting & Transcription (973) 692-0660 (41) that's - transcript

Spring 2024 Meeting		I		April 25, 2024
transformational (2)	94:22;104:7;108:13;	turned (2)	31:24	United (5)
78:3;84:1	168:21	23:8;114:3	unaltered (1)	63:6;68:20;109:17;
transformed (2)	tropical (4)	Turner (14)	120:20	219:10;232:14
120:18;152:8	62:23,24;63:11;	11:17,18;115:21;	unanimous (2)	units (1)
transgenic (1)	230:10	121:6,20;157:12;	54:1,1	24:12
226:15	trouble (4)	177:12;178:9;185:1,	unannounced (3)	universities (1)
	14:1;29:17;138:16;		213:9,11,13	174:20
transition (26)		15,23;187:17;192:7;		
26:11;75:19;	140:4	193:11	Unapologetically (1) 236:5	unknown (1)
103:18;136:4;138:10,	TRs (3)	turning (2)		39:13
15;141:1,3;172:10,16,	59:22;98:18;214:19	167:2;230:12	unavoidable (2)	unless (1)
17,18,20,21,23;173:2;	truck (3)	turns (1)	226:4,17	133:24
179:19,21,23;180:1,	204:10,11,19	130:12	unbearable (1)	unlike (1)
24;181:17;200:4;	trucked (1)	twice (1)	169:7	198:10
218:4;235:15;236:18	204:6	5:23	uncertainty (2)	unlikely (1)
transitional (6)	truckers (1)	two (40)	169:10;216:23	62:7
172:17;180:5,6;	204:16	5:13;13:14;16:3;	uncertified (1)	unlimited (1)
181:2;182:10;199:25	trucking (4)	30:10;45:5;47:7;	68:17	70:1
transitioning (7)	29:17,18,22;204:25	50:13;54:25;55:21;	unclear (1)	unload (1)
21:2;28:3,3;78:5;	True (9)	61:1;63:2;74:3;75:3;	21:18	113:22
179:16;181:15;	30:20,20;31:2;	84:12;102:20;103:16;	under (19)	unmute (10)
201:19	45:23;46:11,17;	113:11;130:11;136:2;	6:10;7:25;15:18;	5:22;7:19,21,21;
transitions (4)	69:23;86:15;221:12	137:6;138:19;151:7,	47:2;49:2;63:2;64:13;	56:9;66:23;185:10;
74:10,19,22;75:3	truly (3)	16;159:15;161:11;	85:10;88:6;93:21;	197:13;231:11;238:3
translocate (1)	21:24;23:11;67:4	164:3,14;172:2;	94:21;95:15,18;	unmuted (5)
229:3	trust (6)	180:21;190:24;	96:15;102:23;113:19;	10:10;19:7;171:1,7;
transparency (6)	34:2;72:6;101:19;	197:11;198:13;	143:1;156:2;207:21	188:1
58:22;111:21,25;	110:11;155:13;	200:17;209:25;213:1,	undercutting (1)	unmuting (1)
190:18;203:24;	196:19	1;228:8,13;229:17,19	202:2	187:23
227:14	trust-building (1)	two-step (1)	undergo (1)	unnecessary (1)
transparent (3)	172:13	92:25	85:7	16:1
9:14;112:4;190:16	trusting (1)	two-thirds (1)	undergoing (1)	unpack (3)
transport (1)	123:24	147:10	172:22	133:18;211:12,16
236:12	try (25)	two-year (1)	undermines (2)	unparalleled (1)
transportation (1)	17:12;18:24;19:1;	163:3	101:22;124:5	155:10
216:14	35:25;42:2;62:14;	T-yields (1)	underscore (2)	unpeeling (1)
trauma (1)	94:18,22;96:2;97:21;	24:15	88:8;167:4	108:3
123:4	98:12,19;103:23;	type (6)	underway (1)	unprecedented (1)
travel (1)	134:17,21,21;141:5;	62:24;124:11;	201:12	34:4
16:14	145:22;153:5;171:4,	126:3;128:3;138:13;	undisputed (1)	unregulated (1)
treat (1)	4,6;175:12;177:25;	220:13	40:1	81:7
63:15	186:8	types (14)	unduly (1)	unrestricted (1)
treated (2)	trying (41)	43:20,23;96:8;	129:17	208:20
196:16;228:23	25:5;36:6;37:6,9,	124:12;130:11;	unfair (1)	unspecified (1)
treatment (1)	24;41:16;71:15;	142:17;143:12;	232:4	84:7
228:20	72:20,21;76:13;	191:21;198:11;210:9,	unfortunate (1)	up (150)
treatments (1)	96:25;97:5;103:21;	11;224:7,12,20	26:25	8:9;12:11;13:2;
20:2	107:15;108:12;110:9;	typical (1)	Unfortunately (8)	14:3,10,12;16:9;18:5,
tree (9)	115:17;118:13;	130:11	34:12;51:15;	9;19:5,11;22:9;24:21;
87:15;88:11,19,22;	122:19;125:22;132:9;	typically (5)	107:16;117:25;118:5;	28:5;29:24;30:15;
89:9;90:20;91:3,5;	134:20;138:13;139:4;	93:7;94:23;127:22;	184:9;196:15;221:17	32:18;33:14;37:8,16;
93:3	141:8;169:4;176:7;	134:2,5	unhealthy (1)	38:9,12,16;39:10;
tremendous (3)	177:14,20;178:10;		106:8	41:13;43:7,9;44:8,15;
108:9;188:11;223:1	185:9,25;186:17;	U	UNIDENTIFIED (1)	45:17;48:21,25;
trend (1)	191:20;193:12,12;		10:11	50:19;51:4,8;53:6,8;
69:18	209:1;219:2,4;221:1;	Ultimately (2)	uniformly (1)	54:18;56:5;57:9,20;
tributary (1)	232:1	112:21;143:2	200:1	59:22,25;60:17;
202:10	Tube (1)	umbrella (1)	unintentional (1)	63:19;65:24;67:10;
trickled (1)	103:25	42:10	125:5	68:4;70:8;72:2;73:7,
198:19	Turkey (1)	unable (2)	unique (4)	25;74:2;77:23;81:17;
tricky (2)	136:10	5:21;185:10	42:22;72:18;154:9;	83:16;85:2;87:4;90:2,
94:8,20	turn (7)	unacceptable (1)	167:14	16;91:14,16;92:6;
tried (7)	6:8,15;7:11,22;	195:17	unit (1)	94:12;97:17;99:15;
38:22;69:23;89:25;	8:19;127:22;216:6	unacceptably (1)	24:15	106:14,19;107:19;

- Vol. 1 April 23, 2024

Burke Court Reporting & Transcription (973) 692-0660

- Vol. 1 April 23, 2024

				April 23, 2024
108:23;109:10;	17:24	55:10;56:22;63:8;	221:12	viciously (1)
114:19;116:3,12;	USDA (20)	92:24;105:12,17;	vegetable (3)	158:20
	14:18,22;23:20;		89:22;116:19;118:3	video (3)
118:21;121:15;		128:4;132:20;144:18;		7:10;8:11;135:19
123:11;126:8;128:9,	37:1;39:17;48:1;54:7,	159:2;167:5;181:16;	vegetables (7)	view (9)
21;130:17;131:18;	13;58:22;59:24;64:5;	182:10;194:15;200:9;	33:3;65:11;142:13;	
132:25;133:21;	68:23;83:23;137:19;	211:15;230:7	183:6;230:16,17,20	6:7,17,19,20;8:13;
134:10;135:17;	138:3;140:17;188:24;	usual (1)	veins (1)	60:6;105:8;148:19;
138:10,22;140:21;	226:25;227:2,3	153:18	159:20	217:2
141:16,17,24;146:5,	USDA-NOP (1)	usually (1)	vendor (1)	view/speaker (1)
11;149:16;153:18,22,	31:10	7:5	158:6	6:20
24,25;154:5;155:2;	USDA's (2)	Utah (1)	venues (1)	viewpoints (1)
157:22,24;160:15;	188:25;226:24	74:1	150:8	186:5
162:8;163:2;166:2,	use (71)	utilize (5)	verification (2)	views (1)
22,24;167:11,17,21;	6:14;8:7;21:17;	44:22;100:9;104:8;	92:7,17	83:21
168:1;170:20,23;	24:16;31:5;34:1,9;	122:11;138:5	verified (2)	violating (1)
172:5;173:24;174:7;	39:22;49:3;54:6,10,	utilized (5)	99:13,13	81:3
178:5;179:15,18,22;	14;61:24;62:12;	24:10;32:1;98:23;	verifies (1)	virtual (4)
180:6;181:8;182:9,	77:15;79:23;85:11;	139:4;196:4	92:22	9:2;43:17;153:20;
20;187:6;188:4,5;	88:11;89:10;91:4;	utilizing (4)	verify (7)	172:6
191:4;194:24;197:1;	92:4,6;95:13,15;	24:11;104:1;	64:14;92:10;	virtually (2)
198:3;207:3;211:24;	97:18;98:12,25;	121:17;126:13	109:14;110:11;	22:17;33:10
213:23;215:6;216:12;	106:2;119:12,20;	utmost (1)	207:19,22,25	virus (1)
220:11;222:5,9;	120:9;128:24;142:25;	184:19	verifying (1)	184:8
225:8,14,19;230:12,	143:15;144:16;		207:11	viscosity (1)
24;231:8;234:25;	145:11,13,17;148:13,	V	Vermont (7)	88:13
236:8;237:17	21;149:20;152:7;		160:20,22;161:1,2,	visibility (1)
upcoming (1)	158:14;159:6;160:1,	vague (2)	24;162:5;163:2	163:4
190:17	8,9;161:2,8,12;	124:10;144:12	versa (1)	visible (2)
update (1)	162:15;164:16;	valid (2)	203:17	8:11;190:8
55:2	172:20;173:15;180:4,	56:25;84:22	version (3)	visit (3)
updated (1)	7;181:2,15;184:16;	Validate (1)	80:4;119:12;122:11	7:2;33:24;163:23
121:2	190:13;204:20;	114:8	versions (2)	vitamin (1)
updates (2)	207:20;208:1;211:3;	Valley (4)	80:22;193:5	93:12
183:23;207:12	214:19;223:9,17,25;	19:17,24;20:3;21:3	versus (8)	vitamins (5)
updating (4)	224:5;228:10;235:16	valleys (1)	60:4;115:11;	42:19,23,25;93:8;
32:11;87:19;	used (50)	206:16	162:12;163:10;	94:7
125:13,24	20:8;30:22;31:4;	valuable (3)	165:21;186:18;	VOF (2)
upfront (2)	39:4,20;43:3,3;70:20;	111:11;125:1;143:6	219:10,13	160:24;161:6
130:3,6	72.11.00.1.00.12 14.	1 (0)		
	72:11;80:1;88:13,14;	value (9)	vessel (1)	VOICE (8)
upgrades (1)	89:6;93:7,22;95:24;	value (9) 48:16;70:13;153:1;	vessel (1) 113:24	
upgrades (1) 124:7		48:16;70:13;153:1;		VOICE (8)
124:7	89:6;93:7,22;95:24;	48:16;70:13;153:1; 156:18;177:17,21;	113:24	VOICE (8) 5:9;15:19;62:21;
	89:6;93:7,22;95:24; 97:18;98:15;102:11;	48:16;70:13;153:1;	113:24 veterinarians (1)	VOICE (8) 5:9;15:19;62:21; 104:17;111:4;181:19,
124:7 uphill (1) 205:11	89:6;93:7,22;95:24; 97:18;98:15;102:11; 103:2,3;119:23;	48:16;70:13;153:1; 156:18;177:17,21; 199:20;220:23; 237:14	113:24 veterinarians (1) 20:15	VOICE (8) 5:9;15:19;62:21; 104:17;111:4;181:19, 24;190:5
124:7 uphill (1)	89:6;93:7,22;95:24; 97:18;98:15;102:11; 103:2,3;119:23; 120:1,5,6,6,7;127:16;	48:16;70:13;153:1; 156:18;177:17,21; 199:20;220:23;	113:24 veterinarians (1) 20:15 via (7)	VOICE (8) 5:9;15:19;62:21; 104:17;111:4;181:19, 24;190:5 voices (1)
124:7 uphill (1) 205:11 uphold (1)	89:6;93:7,22;95:24; 97:18;98:15;102:11; 103:2,3;119:23; 120:1,5,6,6,7;127:16; 129:11,24;130:17;	48:16;70:13;153:1; 156:18;177:17,21; 199:20;220:23; 237:14 value-add (1)	113:24 veterinarians (1) 20:15 via (7) 6:4;92:25;93:11;	VOICE (8) 5:9;15:19;62:21; 104:17;111:4;181:19, 24;190:5 voices (1) 154:3
124:7 uphill (1) 205:11 uphold (1) 169:1 upon (2)	89:6;93:7,22;95:24; 97:18;98:15;102:11; 103:2,3;119:23; 120:1,5,6,6,7;127:16; 129:11,24;130:17; 140:24;143:20,22; 144:23;151:14;154:1;	48:16;70:13;153:1; 156:18;177:17,21; 199:20;220:23; 237:14 value-add (1) 237:12	113:24 veterinarians (1) 20:15 via (7) 6:4;92:25;93:11; 95:21;158:24,24; 173:14	VOICE (8) 5:9;15:19;62:21; 104:17;111:4;181:19, 24;190:5 voices (1) 154:3 volatile (1) 200:20
124:7 uphill (1) 205:11 uphold (1) 169:1 upon (2) 7:19;156:4	89:6;93:7,22;95:24; 97:18;98:15;102:11; 103:2,3;119:23; 120:1,5,6,6,7;127:16; 129:11,24;130:17; 140:24;143:20,22;	48:16;70:13;153:1; 156:18;177:17,21; 199:20;220:23; 237:14 value-add (1) 237:12 value-added (1)	113:24 veterinarians (1) 20:15 via (7) 6:4;92:25;93:11; 95:21;158:24,24;	VOICE (8) 5:9;15:19;62:21; 104:17;111:4;181:19, 24;190:5 voices (1) 154:3 volatile (1)
124:7 uphill (1) 205:11 uphold (1) 169:1 upon (2)	89:6;93:7,22;95:24; 97:18;98:15;102:11; 103:2,3;119:23; 120:1,5,6,6,7;127:16; 129:11,24;130:17; 140:24;143:20,22; 144:23;151:14;154:1; 158:20;159:14;160:5;	48:16;70:13;153:1; 156:18;177:17,21; 199:20;220:23; 237:14 value-add (1) 237:12 value-added (1) 156:17 valued (1)	113:24 veterinarians (1) 20:15 via (7) 6:4;92:25;93:11; 95:21;158:24,24; 173:14 viability (3)	VOICE (8) 5:9;15:19;62:21; 104:17;111:4;181:19, 24;190:5 voices (1) 154:3 volatile (1) 200:20 volatility (11)
124:7 uphill (1) 205:11 uphold (1) 169:1 upon (2) 7:19;156:4 upper (1) 6:19	89:6;93:7,22;95:24; 97:18;98:15;102:11; 103:2,3;119:23; 120:1,5,6,6,7;127:16; 129:11,24;130:17; 140:24;143:20,22; 144:23;151:14;154:1; 158:20;159:14;160:5; 162:19;166:23;167:3, 9;208:24;212:1;	48:16;70:13;153:1; 156:18;177:17,21; 199:20;220:23; 237:14 value-add (1) 237:12 value-added (1) 156:17 valued (1) 61:11	113:24 veterinarians (1) 20:15 via (7) 6:4;92:25;93:11; 95:21;158:24,24; 173:14 viability (3) 60:4;61:15;82:1 VICE (43)	VOICE (8) 5:9;15:19;62:21; 104:17;111:4;181:19, 24;190:5 voices (1) 154:3 volatile (1) 200:20 volatility (11) 198:19;199:3; 200:18;201:1,5,15,23;
124:7 uphill (1) 205:11 uphold (1) 169:1 upon (2) 7:19;156:4 upper (1) 6:19 urea (1)	89:6;93:7,22;95:24; 97:18;98:15;102:11; 103:2,3;119:23; 120:1,5,6,6,7;127:16; 129:11,24;130:17; 140:24;143:20,22; 144:23;151:14;154:1; 158:20;159:14;160:5; 162:19;166:23;167:3, 9;208:24;212:1; 223:11,13;224:11;	48:16;70:13;153:1; 156:18;177:17,21; 199:20;220:23; 237:14 value-add (1) 237:12 value-added (1) 156:17 valued (1) 61:11 variance (2)	113:24 veterinarians (1) 20:15 via (7) 6:4;92:25;93:11; 95:21;158:24,24; 173:14 viability (3) 60:4;61:15;82:1 VICE (43) 10:8;16:18;17:8,21;	VOICE (8) 5:9;15:19;62:21; 104:17;111:4;181:19, 24;190:5 voices (1) 154:3 volatile (1) 200:20 volatility (11) 198:19;199:3; 200:18;201:1,5,15,23; 202:4,21;206:15;
124:7 uphill (1) 205:11 uphold (1) 169:1 upon (2) 7:19;156:4 upper (1) 6:19 urea (1) 63:8	89:6;93:7,22;95:24; 97:18;98:15;102:11; 103:2,3;119:23; 120:1,5,6,6,7;127:16; 129:11,24;130:17; 140:24;143:20,22; 144:23;151:14;154:1; 158:20;159:14;160:5; 162:19;166:23;167:3, 9;208:24;212:1; 223:11,13;224:11; 230:1	48:16;70:13;153:1; 156:18;177:17,21; 199:20;220:23; 237:14 value-add (1) 237:12 value-added (1) 156:17 valued (1) 61:11 variance (2) 222:2,3	113:24 veterinarians (1) 20:15 via (7) 6:4;92:25;93:11; 95:21;158:24,24; 173:14 viability (3) 60:4;61:15;82:1 VICE (43) 10:8;16:18;17:8,21; 18:13,24;26:15;28:7,	VOICE (8) 5:9;15:19;62:21; 104:17;111:4;181:19, 24;190:5 voices (1) 154:3 volatile (1) 200:20 volatility (11) 198:19;199:3; 200:18;201:1,5,15,23; 202:4,21;206:15; 220:25
124:7 uphill (1) 205:11 uphold (1) 169:1 upon (2) 7:19;156:4 upper (1) 6:19 urea (1) 63:8 urge (7)	89:6;93:7,22;95:24; 97:18;98:15;102:11; 103:2,3;119:23; 120:1,5,6,6,7;127:16; 129:11,24;130:17; 140:24;143:20,22; 144:23;151:14;154:1; 158:20;159:14;160:5; 162:19;166:23;167:3, 9;208:24;212:1; 223:11,13;224:11; 230:1 useful (1)	48:16;70:13;153:1; 156:18;177:17,21; 199:20;220:23; 237:14 value-add (1) 237:12 value-added (1) 156:17 valued (1) 61:11 variance (2) 222:2,3 varies (1)	113:24 veterinarians (1) 20:15 via (7) 6:4;92:25;93:11; 95:21;158:24,24; 173:14 viability (3) 60:4;61:15;82:1 VICE (43) 10:8;16:18;17:8,21; 18:13,24;26:15;28:7, 21;40:17;41:12;48:4;	VOICE (8) 5:9;15:19;62:21; 104:17;111:4;181:19, 24;190:5 voices (1) 154:3 volatile (1) 200:20 volatility (11) 198:19;199:3; 200:18;201:1,5,15,23; 202:4,21;206:15; 220:25 volatilizes (1)
124:7 uphill (1) 205:11 uphold (1) 169:1 upon (2) 7:19;156:4 upper (1) 6:19 urea (1) 63:8 urge (7) 44:19;54:7,22;	89:6;93:7,22;95:24; 97:18;98:15;102:11; 103:2,3;119:23; 120:1,5,6,6,7;127:16; 129:11,24;130:17; 140:24;143:20,22; 144:23;151:14;154:1; 158:20;159:14;160:5; 162:19;166:23;167:3, 9;208:24;212:1; 223:11,13;224:11; 230:1 useful (1) 124:4	48:16;70:13;153:1; 156:18;177:17,21; 199:20;220:23; 237:14 value-add (1) 237:12 value-added (1) 156:17 valued (1) 61:11 variance (2) 222:2,3 varies (1) 109:18	113:24 veterinarians (1) 20:15 via (7) 6:4;92:25;93:11; 95:21;158:24,24; 173:14 viability (3) 60:4;61:15;82:1 VICE (43) 10:8;16:18;17:8,21; 18:13,24;26:15;28:7, 21;40:17;41:12;48:4; 49:4,15;55:19;57:4;	VOICE (8) 5:9;15:19;62:21; 104:17;111:4;181:19, 24;190:5 voices (1) 154:3 volatile (1) 200:20 volatility (11) 198:19;199:3; 200:18;201:1,5,15,23; 202:4,21;206:15; 220:25 volatilizes (1) 228:21
124:7 uphill (1) 205:11 uphold (1) 169:1 upon (2) 7:19;156:4 upper (1) 6:19 urea (1) 63:8 urge (7) 44:19;54:7,22; 128:12;166:18;	89:6;93:7,22;95:24; 97:18;98:15;102:11; 103:2,3;119:23; 120:1,5,6,6,7;127:16; 129:11,24;130:17; 140:24;143:20,22; 144:23;151:14;154:1; 158:20;159:14;160:5; 162:19;166:23;167:3, 9;208:24;212:1; 223:11,13;224:11; 230:1 useful (1) 124:4 useless (1)	48:16;70:13;153:1; 156:18;177:17,21; 199:20;220:23; 237:14 value-add (1) 237:12 value-added (1) 156:17 valued (1) 61:11 variance (2) 222:2,3 varies (1) 109:18 variety (5)	113:24 veterinarians (1) 20:15 via (7) 6:4;92:25;93:11; 95:21;158:24,24; 173:14 viability (3) 60:4;61:15;82:1 VICE (43) 10:8;16:18;17:8,21; 18:13,24;26:15;28:7, 21;40:17;41:12;48:4; 49:4,15;55:19;57:4; 58:14;62:20;63:17;	VOICE (8) 5:9;15:19;62:21; 104:17;111:4;181:19, 24;190:5 voices (1) 154:3 volatile (1) 200:20 volatility (11) 198:19;199:3; 200:18;201:1,5,15,23; 202:4,21;206:15; 220:25 volatilizes (1) 228:21 Volta (1)
124:7 uphill (1) 205:11 uphold (1) 169:1 upon (2) 7:19;156:4 upper (1) 6:19 urea (1) 63:8 urge (7) 44:19;54:7,22; 128:12;166:18; 167:22;196:18	89:6;93:7,22;95:24; 97:18;98:15;102:11; 103:2,3;119:23; 120:1,5,6,6,7;127:16; 129:11,24;130:17; 140:24;143:20,22; 144:23;151:14;154:1; 158:20;159:14;160:5; 162:19;166:23;167:3, 9;208:24;212:1; 223:11,13;224:11; 230:1 useful (1) 124:4 useless (1) 24:18	48:16;70:13;153:1; 156:18;177:17,21; 199:20;220:23; 237:14 value-add (1) 237:12 value-added (1) 156:17 valued (1) 61:11 variance (2) 222:2,3 varies (1) 109:18 variety (5) 56:20;59:18;	113:24 veterinarians (1) 20:15 via (7) 6:4;92:25;93:11; 95:21;158:24,24; 173:14 viability (3) 60:4;61:15;82:1 VICE (43) 10:8;16:18;17:8,21; 18:13,24;26:15;28:7, 21;40:17;41:12;48:4; 49:4,15;55:19;57:4; 58:14;62:20;63:17; 77:22;78:24;103:12;	VOICE (8) 5:9;15:19;62:21; 104:17;111:4;181:19, 24;190:5 voices (1) 154:3 volatile (1) 200:20 volatility (11) 198:19;199:3; 200:18;201:1,5,15,23; 202:4,21;206:15; 220:25 volatilizes (1) 228:21 Volta (1) 63:1
124:7 uphill (1) 205:11 uphold (1) 169:1 upon (2) 7:19;156:4 upper (1) 6:19 urea (1) 63:8 urge (7) 44:19;54:7,22; 128:12;166:18; 167:22;196:18 urgency (2)	89:6;93:7,22;95:24; 97:18;98:15;102:11; 103:2,3;119:23; 120:1,5,6,6,7;127:16; 129:11,24;130:17; 140:24;143:20,22; 144:23;151:14;154:1; 158:20;159:14;160:5; 162:19;166:23;167:3, 9;208:24;212:1; 223:11,13;224:11; 230:1 useful (1) 124:4 useless (1) 24:18 user (1)	48:16;70:13;153:1; 156:18;177:17,21; 199:20;220:23; 237:14 value-add (1) 237:12 value-added (1) 156:17 valued (1) 61:11 variance (2) 222:2,3 varies (1) 109:18 variety (5) 56:20;59:18; 100:11;160:5;210:11	113:24 veterinarians (1) 20:15 via (7) 6:4;92:25;93:11; 95:21;158:24,24; 173:14 viability (3) 60:4;61:15;82:1 VICE (43) 10:8;16:18;17:8,21; 18:13,24;26:15;28:7, 21;40:17;41:12;48:4; 49:4,15;55:19;57:4; 58:14;62:20;63:17; 77:22;78:24;103:12; 104:16;109:8;110:22;	VOICE (8) 5:9;15:19;62:21; 104:17;111:4;181:19, 24;190:5 voices (1) 154:3 volatile (1) 200:20 volatility (11) 198:19;199:3; 200:18;201:1,5,15,23; 202:4,21;206:15; 220:25 volatilizes (1) 228:21 Volta (1) 63:1 volume (4)
124:7 uphill (1) 205:11 uphold (1) 169:1 upon (2) 7:19;156:4 upper (1) 6:19 urea (1) 63:8 urge (7) 44:19;54:7,22; 128:12;166:18; 167:22;196:18 urgency (2) 167:4;232:23	89:6;93:7,22;95:24; 97:18;98:15;102:11; 103:2,3;119:23; 120:1,5,6,6,7;127:16; 129:11,24;130:17; 140:24;143:20,22; 144:23;151:14;154:1; 158:20;159:14;160:5; 162:19;166:23;167:3, 9;208:24;212:1; 223:11,13;224:11; 230:1 useful (1) 124:4 useless (1) 24:18 user (1) 145:15	48:16;70:13;153:1; 156:18;177:17,21; 199:20;220:23; 237:14 value-add (1) 237:12 value-added (1) 156:17 valued (1) 61:11 variance (2) 222:2,3 varies (1) 109:18 variety (5) 56:20;59:18; 100:11;160:5;210:11 various (7)	113:24 veterinarians (1) 20:15 via (7) 6:4;92:25;93:11; 95:21;158:24,24; 173:14 viability (3) 60:4;61:15;82:1 VICE (43) 10:8;16:18;17:8,21; 18:13,24;26:15;28:7, 21;40:17;41:12;48:4; 49:4,15;55:19;57:4; 58:14;62:20;63:17; 77:22;78:24;103:12; 104:16;109:8;110:22; 125:19;127:3;141:11,	VOICE (8) 5:9;15:19;62:21; 104:17;111:4;181:19, 24;190:5 voices (1) 154:3 volatile (1) 200:20 volatility (11) 198:19;199:3; 200:18;201:1,5,15,23; 202:4,21;206:15; 220:25 volatilizes (1) 228:21 Volta (1) 63:1 volume (4) 119:18;127:21;
124:7 uphill (1) 205:11 uphold (1) 169:1 upon (2) 7:19;156:4 upper (1) 6:19 urea (1) 63:8 urge (7) 44:19;54:7,22; 128:12;166:18; 167:22;196:18 urgency (2) 167:4;232:23 urges (1)	89:6;93:7,22;95:24; 97:18;98:15;102:11; 103:2,3;119:23; 120:1,5,6,6,7;127:16; 129:11,24;130:17; 140:24;143:20,22; 144:23;151:14;154:1; 158:20;159:14;160:5; 162:19;166:23;167:3, 9;208:24;212:1; 223:11,13;224:11; 230:1 useful (1) 124:4 useless (1) 24:18 user (1) 145:15 users (2)	48:16;70:13;153:1; 156:18;177:17,21; 199:20;220:23; 237:14 value-add (1) 237:12 value-added (1) 156:17 valued (1) 61:11 variance (2) 222:2,3 varies (1) 109:18 variety (5) 56:20;59:18; 100:11;160:5;210:11 various (7) 16:5;43:20;109:18;	113:24 veterinarians (1) 20:15 via (7) 6:4;92:25;93:11; 95:21;158:24,24; 173:14 viability (3) 60:4;61:15;82:1 VICE (43) 10:8;16:18;17:8,21; 18:13,24;26:15;28:7, 21;40:17;41:12;48:4; 49:4,15;55:19;57:4; 58:14;62:20;63:17; 77:22;78:24;103:12; 104:16;109:8;110:22; 125:19;127:3;141:11, 20;142:4;173:20;	VOICE (8) 5:9;15:19;62:21; 104:17;111:4;181:19, 24;190:5 voices (1) 154:3 volatile (1) 200:20 volatility (11) 198:19;199:3; 200:18;201:1,5,15,23; 202:4,21;206:15; 220:25 volatilizes (1) 228:21 Volta (1) 63:1 volume (4) 119:18;127:21; 215:13;237:13
124:7 uphill (1) 205:11 uphold (1) 169:1 upon (2) 7:19;156:4 upper (1) 6:19 urea (1) 63:8 urge (7) 44:19;54:7,22; 128:12;166:18; 167:22;196:18 urgency (2) 167:4;232:23 urges (1) 92:13	89:6;93:7,22;95:24; 97:18;98:15;102:11; 103:2,3;119:23; 120:1,5,6,6,7;127:16; 129:11,24;130:17; 140:24;143:20,22; 144:23;151:14;154:1; 158:20;159:14;160:5; 162:19;166:23;167:3, 9;208:24;212:1; 223:11,13;224:11; 230:1 useful (1) 124:4 useless (1) 24:18 user (1) 145:15 users (2) 111:21,24	48:16;70:13;153:1; 156:18;177:17,21; 199:20;220:23; 237:14 value-add (1) 237:12 value-added (1) 156:17 valued (1) 61:11 variance (2) 222:2,3 varies (1) 109:18 variety (5) 56:20;59:18; 100:11;160:5;210:11 various (7) 16:5;43:20;109:18; 110:19;124:3;190:9;	113:24 veterinarians (1) 20:15 via (7) 6:4;92:25;93:11; 95:21;158:24,24; 173:14 viability (3) 60:4;61:15;82:1 VICE (43) 10:8;16:18;17:8,21; 18:13,24;26:15;28:7, 21;40:17;41:12;48:4; 49:4,15;55:19;57:4; 58:14;62:20;63:17; 77:22;78:24;103:12; 104:16;109:8;110:22; 125:19;127:3;141:11, 20;142:4;173:20; 174:13;175:2;180:14;	VOICE (8) 5:9;15:19;62:21; 104:17;111:4;181:19, 24;190:5 voices (1) 154:3 volatile (1) 200:20 volatility (11) 198:19;199:3; 200:18;201:1,5,15,23; 202:4,21;206:15; 220:25 volatilizes (1) 228:21 Volta (1) 63:1 volume (4) 119:18;127:21; 215:13;237:13 volumes (1)
124:7 uphill (1) 205:11 uphold (1) 169:1 upon (2) 7:19;156:4 upper (1) 6:19 urea (1) 63:8 urge (7) 44:19;54:7,22; 128:12;166:18; 167:22;196:18 urgency (2) 167:4;232:23 urges (1) 92:13 usage (7)	89:6;93:7,22;95:24; 97:18;98:15;102:11; 103:2,3;119:23; 120:1,5,6,6,7;127:16; 129:11,24;130:17; 140:24;143:20,22; 144:23;151:14;154:1; 158:20;159:14;160:5; 162:19;166:23;167:3, 9;208:24;212:1; 223:11,13;224:11; 230:1 useful (1) 124:4 useless (1) 24:18 user (1) 145:15 users (2) 111:21,24 uses (3)	48:16;70:13;153:1; 156:18;177:17,21; 199:20;220:23; 237:14 value-add (1) 237:12 value-added (1) 156:17 valued (1) 61:11 variance (2) 222:2,3 varies (1) 109:18 variety (5) 56:20;59:18; 100:11;160:5;210:11 various (7) 16:5;43:20;109:18; 110:19;124:3;190:9; 237:9	113:24 veterinarians (1) 20:15 via (7) 6:4;92:25;93:11; 95:21;158:24,24; 173:14 viability (3) 60:4;61:15;82:1 VICE (43) 10:8;16:18;17:8,21; 18:13,24;26:15;28:7, 21;40:17;41:12;48:4; 49:4,15;55:19;57:4; 58:14;62:20;63:17; 77:22;78:24;103:12; 104:16;109:8;110:22; 125:19;127:3;141:11, 20;142:4;173:20; 174:13;175:2;180:14; 181:20;186:2,23;	VOICE (8) 5:9;15:19;62:21; 104:17;111:4;181:19, 24;190:5 voices (1) 154:3 volatile (1) 200:20 volatility (11) 198:19;199:3; 200:18;201:1,5,15,23; 202:4,21;206:15; 220:25 volatilizes (1) 228:21 Volta (1) 63:1 volume (4) 119:18;127:21; 215:13;237:13 volumes (1) 108:21
124:7 uphill (1) 205:11 uphold (1) 169:1 upon (2) 7:19;156:4 upper (1) 6:19 urea (1) 63:8 urge (7) 44:19;54:7,22; 128:12;166:18; 167:22;196:18 urgency (2) 167:4;232:23 urges (1) 92:13 usage (7) 53:23;54:9;55:23;	89:6;93:7,22;95:24; 97:18;98:15;102:11; 103:2,3;119:23; 120:1,5,6,6,7;127:16; 129:11,24;130:17; 140:24;143:20,22; 144:23;151:14;154:1; 158:20;159:14;160:5; 162:19;166:23;167:3, 9;208:24;212:1; 223:11,13;224:11; 230:1 useful (1) 124:4 useless (1) 24:18 user (1) 145:15 users (2) 111:21,24 uses (3) 91:5;160:3;172:17	48:16;70:13;153:1; 156:18;177:17,21; 199:20;220:23; 237:14 value-add (1) 237:12 value-added (1) 156:17 valued (1) 61:11 variance (2) 222:2,3 varies (1) 109:18 variety (5) 56:20;59:18; 100:11;160:5;210:11 various (7) 16:5;43:20;109:18; 110:19;124:3;190:9; 237:9 vast (3)	113:24 veterinarians (1) 20:15 via (7) 6:4;92:25;93:11; 95:21;158:24,24; 173:14 viability (3) 60:4;61:15;82:1 VICE (43) 10:8;16:18;17:8,21; 18:13,24;26:15;28:7, 21;40:17;41:12;48:4; 49:4,15;55:19;57:4; 58:14;62:20;63:17; 77:22;78:24;103:12; 104:16;109:8;110:22; 125:19;127:3;141:11, 20;142:4;173:20; 174:13;175:2;180:14; 181:20;186:2,23; 193:25;194:19;	VOICE (8) 5:9;15:19;62:21; 104:17;111:4;181:19, 24;190:5 voices (1) 154:3 volatile (1) 200:20 volatility (11) 198:19;199:3; 200:18;201:1,5,15,23; 202:4,21;206:15; 220:25 volatilizes (1) 228:21 Volta (1) 63:1 volume (4) 119:18;127:21; 215:13;237:13 volumes (1) 108:21 voluntarily (1)
124:7 uphill (1) 205:11 uphold (1) 169:1 upon (2) 7:19;156:4 upper (1) 6:19 urea (1) 63:8 urge (7) 44:19;54:7,22; 128:12;166:18; 167:22;196:18 urgency (2) 167:4;232:23 urges (1) 92:13 usage (7)	89:6;93:7,22;95:24; 97:18;98:15;102:11; 103:2,3;119:23; 120:1,5,6,6,7;127:16; 129:11,24;130:17; 140:24;143:20,22; 144:23;151:14;154:1; 158:20;159:14;160:5; 162:19;166:23;167:3, 9;208:24;212:1; 223:11,13;224:11; 230:1 useful (1) 124:4 useless (1) 24:18 user (1) 145:15 users (2) 111:21,24 uses (3)	48:16;70:13;153:1; 156:18;177:17,21; 199:20;220:23; 237:14 value-add (1) 237:12 value-added (1) 156:17 valued (1) 61:11 variance (2) 222:2,3 varies (1) 109:18 variety (5) 56:20;59:18; 100:11;160:5;210:11 various (7) 16:5;43:20;109:18; 110:19;124:3;190:9; 237:9	113:24 veterinarians (1) 20:15 via (7) 6:4;92:25;93:11; 95:21;158:24,24; 173:14 viability (3) 60:4;61:15;82:1 VICE (43) 10:8;16:18;17:8,21; 18:13,24;26:15;28:7, 21;40:17;41:12;48:4; 49:4,15;55:19;57:4; 58:14;62:20;63:17; 77:22;78:24;103:12; 104:16;109:8;110:22; 125:19;127:3;141:11, 20;142:4;173:20; 174:13;175:2;180:14; 181:20;186:2,23;	VOICE (8) 5:9;15:19;62:21; 104:17;111:4;181:19, 24;190:5 voices (1) 154:3 volatile (1) 200:20 volatility (11) 198:19;199:3; 200:18;201:1,5,15,23; 202:4,21;206:15; 220:25 volatilizes (1) 228:21 Volta (1) 63:1 volume (4) 119:18;127:21; 215:13;237:13 volumes (1) 108:21

Min-U-Script®

Burke Court Reporting & Transcription (973) 692-0660

(43) upcoming - voluntary

Spring 2024 Meeting		(((())))		April 23, 2024
223:5	50:10;52:16;61:3;	8:21	89:6;223:11,13	184:25,25;187:9,15;
vote (1)	76:9;94:12;96:12;	welfare (5)	wider (1)	190:25;192:6
172:5	122:23;134:17;	20:10,13;158:9,12;	33:16	Woodlyn (1)
voted (1)	135:12;141:18;162:2;	159:23	widespread (1)	22:14
96:5	190:1,9;198:4;205:9;	well-aware (1)	82:22	word (7)
votes (1)	207:4;208:14;215:6,	60:9	wife (5)	102:20;103:9;
96:6	9,10;217:21,25;	well-being (2)	61:2;73:24;100:7;	102:20,105:2,8;
	218:11,15;219:7,11,	45:16;158:12	114:24;129:9	175:19;177:6
\mathbf{W}	16,18,19,22;220:7;	well-established (2)	wild (2)	worded (1)
•••	221:6,17;223:24;	49:23,24	33:3,12	13:1
wages (1)	224:1;232:13;237:16	well-represented (1)	willing (4)	wording (1)
198:23	ways (9)	91:25	41:25;74:18;77:13;	204:1
Wait (4)	15:23;24:9;49:24;	wells (1)	100:2	words (2)
38:15;63:4;176:16;	71:18;107:18;112:7;	167:8	win (1)	176:20;177:7
177:10	189:18;191:9;220:22	well-trained (1)	179:8	work (93)
waiting (3)	weak (1)	128:15	wind (1)	5:4;9:21,23;14:7;
18:17;144:15;	82:21	weren't (1)	108:6	15:12,22;16:19;
176:17	weaken (1)	17:6	window (2)	19:19;21:12;30:23;
walk (1)	37:9	weren't (3)	5:25:26:16	45:1,23,25;46:12,13;
237:9	wear (1)	74:20;138:16;	windows (1)	47:25;49:1;50:21;
walkabout (1)	216:6	164:16	216:9	53:13,20;54:23;
79:11	weather (1)	West (3)	winter (2)	55:14,16;56:12;
walking (1)	205:14	60:25;62:1;133:1	27:21,23	58:18;60:25;61:19;
218:25	web-based (1)	Western (3)	Wisconsin (1)	64:7;66:12;67:20;
wall (1)	16:14	135:21;234:22;	79:17	68:18;69:3,9;71:23;
21:20	Weber (6)	236:12	wish (7)	78:25;89:14;91:7;
Walter (3)	79:7,13;81:17,20,	wet (1)	13:10;45:16;79:17;	94:1;103:16;104:19;
222:16;225:11;	22;83:12	133:6	118:2;170:9,10;177:5	106:7,8,16;115:15,24;
238:18	webinar (3)	what's (20)	wishy-washy (1)	117:12;127:16;128:6;
wants (3)	7:6;238:23;239:4	25:22;36:2,9;42:22;	35:13	132:2;135:23;137:7,
76:7;110:15;151:15	webinars (2)	55:24;56:7;59:10,10;	within (14)	17;144:4;148:23;
warehouse (3)	5:12,13	67:4;74:24;98:8;	16:10;17:11,16;	153:15,19;155:13;
113:23,25;114:7	website (4)	103:19;109:12;110:9,	18:2;55:16;64:4;	158:8,17;160:23;
warn (1)	7:7;20:7;210:18;	16;121:12;131:16,16;	92:14;114:6;115:7;	163:1;166:16;168:23;
187:24	229:18	203:19;214:13	171:23;204:7;216:19;	169:1;171:6,18;
warranted (1)	weed (4)	Wheat (8)	231:21;232:24	172:15;174:4,11,25;
99:13	216:1,2,10;218:22	27:20,21,23,25;	without (16)	175:5,16,19;176:8;
wash (2)	weeding (1)	29:21,22;100:11;	14:5;16:13;68:10;	177:9;180:20;188:11;
33:20;143:23	221:25	198:21	70:24;84:20;91:25;	189:14,21;190:2,21;
washing (1)	weeds (2)	whenever (1)	110:12;125:6;129:17;	191:25,25;192:1;
143:23	218:22;219:1	173:16	145:12;151:21;179:7;	193:20;195:7;199:8,
Washington (1)	week (10)	whereas (1)	209:12;212:3;221:24;	22;201:25;202:17;
149:20	5:13,15;7:8;16:16;	63:6	209.12,212.3,221.24, 224:20	209:4;211:7;217:3
waste (20)	20:14;90:6;99:21;	Whereupon (1)	wonder (1)	workable (1)
66:17,18,19;67:2;	116:24;142:18;	239:4	40:21	68:11
132:14;133:2;147:1,	170:14	wherever (1)	wondered (1)	workaround (1)
21;149:5;151:8,10;	weigh (1)	9:3	18:5	79:25
154:15;161:22;162:6;	97:5	white (1)	wonderful (3)	worked (14)
163:11,15;164:9;	weigh-in (3)	61:8	100:14;187:21;	40:13;60:25;61:1;
207:17;208:3,5	83:6,11;184:20	whole (11)	193:20	113:10;116:4;129:9;
watch (1)	weighing (1)	9:24;11:22;29:20;	wondering (18)	137:19,20,22;138:20;
5:16	153:22	51:10;94:25;99:12;	18:19;25:7,9;35:10;	152:25;158:7;174:5;
watching (1)	weirdly (1)	112:10;156:23;	66:16;69:13;85:23;	180:24
133:14	13:1	206:24;213:8;223:18	98:1;103:19,22;	workgroup (3)
water (6)	Welcome (13)	wholesale (2)	117:10;133:17;163:2,	33:6;44:5;65:10
47:9;89:8;143:23;	5:3;16:18;19:4;	33:20;36:10	10,12,17;168:15;	workgroups (2)
144:18;158:21;	22:1;43:10;79:10;	wholesalers (2)	211:12	22:23;24:21
167:12	83:5;174:8;191:11;	68:8;171:11	wonders (1)	working (37)
wave (1)	218:11;219:16,22;	wicked (1)	34:22	10:6;11:6;15:4,10,
118:3	218.11,219.10,22, 227:20	164:17	Wood (16)	17;17:6,15;21:10;
way (43)	welcomed (1)	wide (2)	11:17,19;115:19,	22:5;37:20,24;40:7;
12:16;14:6;16:15;	98:7	33:15;45:2	20;121:4,5;157:11,	41:8;44:16;45:5;
37:18;43:19;45:9;	welcoming (1)	widely (3)	11;177:11;178:7;	46:11;50:14;58:7,13;
JI.10, TJ.17, TJ.7,	weicoming (1)	muciy (5)	11,177.11,170.7,	+0.11,50.14,50.7,15,

Burke Court Reporting & Transcription (973) 692-0660

Spring 2024 Meeting				April 25, 2024
66:14;76:4;81:21;		60:15	157:18	205.601j (1)
90:1,10;98:3;103:14;		00.15	137.10 137 (1)	143:1
	Y	Z	39:19	
135:3;145:20;147:6;		L		205.603 (1)
166:8;169:24;175:11;	yard (1)	7 1 (6)	140 (4)	20:5
178:15;182:18;	147:25	Zach (6)	179:21;180:1,2,7	205.605b (1)
199:12;228:15;	Yay (1)	135:18;141:25;	14-person (1)	93:12
229:21	11:6	146:5,7,22;238:14	177:20	205.606 (3)
works (7)	year (27)	Zamora (1)	15 (7)	85:2;155:17;156:3
22:18;24:1;41:11;	23:1,6;24:13;27:24;	11:20	31:15;46:11;139:1;	205.670 (1)
75:8;76:14;121:13;	28:16;34:20,20;54:4;	zero (7)	158:7;171:15,18,19	47:2
180:10	65:12,13,13;75:11,21;	137:21,21,22;	15,000 (1)	22 (1)
workshop (1)	76:22;85:2;88:3,7;	138:17,20;147:1,21	166:13	238:25
45:8	117:22;138:5;141:7;	zilch (1)	17 (2)	2200 (2)
world (16)	143:9;172:1;179:23;	116:5	138:20;230:24	49:2,14
17:2;30:23;33:22;	199:12;216:19;	zone (1)	170 (2)	238 (1)
46:12;50:9;56:22;	220:16,17	140:3	180:7,8	208:8
59:11;67:23;80:18;	years (54)	Zoom (13)	170.25 (1)	238d (1)
90:21;156:14;179:13,	23:8;24:3,6,14,14,	5:10,16,22,24,25;	49:14	207:21
24;196:20;222:2;	17;27:5,8;31:15;33:2;	6:5,7,17;7:4,24;9:24;	170.65 (1)	24 (1)
230:2	34:3;38:25;44:7,7;	165:12,14	49:2	142:15
worldwide (2)	46:11;53:15;54:10;		1960's (1)	25 (5)
91:24;155:7	61:1,1,2;72:4;74:3;	1	230:12	24:17;131:21;
worried (3)	82:3;88:5;100:13;			147:8;222:6;239:5
28:5;162:9;166:20	103:5;107:2;110:10;	1 (4)	2	250 (1)
worries (2)	114:25;117:22,23;	31:20;47:20;		63:7
6:24;187:24	129:12;132:2;137:6;	131:21,21	2 (2)	25th (1)
worry (4)	147:8;158:7;161:11;	1,000 (3)	23:8;47:20	239:1
74:16,18;75:15;		31:12,23;73:7	2,500 (3)	26 (1)
143:25	164:3;168:20;179:17;	1,100 (1)	22:25;142:10;183:3	117:22
worse (3)	182:5;193:17,18;	195:6	20 (13)	2610 (1)
12:14;72:9;196:18	198:11,13;218:5;	1,400 (1)	28:17;33:2;34:3;	124:9
worth (5)	228:20;229:4,18,19;	100:8	38:24;72:2;107:2;	2611 (1)
66:5;90:25;92:5;	231:21,22;236:17,19	1,600 (1)	117:22,23;131:20;	124:16
97:2,22	year's (2)	19:20	139:1;157:18,23;	2611-1 (1)
worthwhile (1)	216:20,20	1,820 (1)	228:20	124:17
221:16	yeast (2)	207:8	200 (1)	2613 (1)
write (1)	119:3,24	1:10 (1)	33:11	124:25
130:20	yellow (1)	79:9	2000s (1)	269 (1)
writing (1)	61:8	10 (10)	112:9	171:15
212:6	yep (16)	17:2;72:4;79:6,8,	2006 (1)	27 (1)
written (37)	26:16;28:23;30:4,	11;103:5;129:12;	93:18	93:17
15:2;24:20;28:8;	18;38:15;99:14,18;	132:2;150:19;221:25	2012 (2)	28 (1)
38:22;40:8,22;46:23;	139:17;141:21;	, ,	93:14,17	24:3
47:19;48:5,9;51:11;	146:10;194:24;198:6,	10,000 (2) 72:12;73:7	2015 (1)	24.3 2A (1)
47.19,48.3,9,51.11, 57:6;66:12,24;76:9;	6;234:12,18,18	,	155:16	80:19
78:22;80:25;87:14;	yesterday (2)	100 (8)		80.19
	12:5;117:9	31:18;52:20;68:13;	2018 (1)	3
92:3,11;93:9;97:17;	yield (15)	101:18;161:19;	54:11	3
123:19;142:20;156:6;	24:9,14;72:15;	179:18,25;213:19	2019 (2)	2 (6)
165:21;168:8;186:3,	179:15,19,22;180:6;	100,000 (1)	54:11;155:16	3 (6)
6;189:3,17;190:16;	181:2,5,9,15;182:11;	72:12	2020 (1)	31:13,22;47:20;
191:15;192:14;194:2;	200:4;235:17,20	11 (1)	142:24	155:8;172:11;177:8
207:10;225:22	yielding (2)	75:11	2021 (2)	3,000 (1)
wrong (3)	63:5,7	11:00 (2)	156:4,7	73:24
19:13;185:8;203:11	yields (4)	239:1,5	2022 (1)	3:07 (1)
wrote (3)	62:24;63:5;180:5;	11:01 (1)	231:1	157:20
174:1;185:6,15	181:16	5:2	2024 (3)	3:20 (1)
Wyoming (1)	York (3)	12 (3)	40:12;231:2;239:5	157:20
236:8	29:21;151:7;215:10	75:11;93:14;195:6	2026 (2)	30 (7)
	young (1)	12:54 (1)	152:16;155:15	28:9;31:20;44:7,7;
X	117:11	79:9	203c2 (1)	135:25;139:1;222:6
	Youngblood (8)	120 (1)	208:21	30-day (1)
Xylazine (1)		63:5	205.601 (1)	171:23
	45:19:55:6.12.15:			
160:3	45:19;53:8,12,13; 56:8;57:17;59:14;	13 (1)	173:12	30-days (1)

1 8 8		r
1767	02.6.25	
176:7	93:6,25	
34 a (1)	60-day (2)	
85:10	172:2;176:6	
35 (1)	64 (2)	
24:17	14:21;16:22	
3D (1)	66 (1)	
134:3	189:2	
134.3		
4	670 (1)	
4	207:24	
	670b (3)	
4 (2)	52:1;207:16;208:9	
31:14,22	670c (2)	
4.6 (1)	52:4;208:2	
120:18	68 (1)	
40 (1)	167:7	
	107.7	
229:4	7	
40-acre (2)	7	
63:2,2		
45 (2)	7 (2)	
104:13;137:15	155:17;156:3	
4b (1)	74 (1)	
85:11	17:3	
	75 (1)	
5	101:1	
	750 (1)	
5.22 (1)	160:21	
5:22 (1)	160:21	
239:4	0	
50 (5)	8	
23:7;108:20;		
109:10;129:24;	80,000 (1)	
10,12,12,		
168:20	147:9	
168:20	147:9	
168:20 50,000 (1)	147:9 823 (19)	
168:20 50,000 (1) 135:24	147:9 823 (19) 75:6,7,12,16;76:8,9,	
168:20 50,000 (1) 135:24 50/50 (1)	147:9 823 (19) 75:6,7,12,16;76:8,9, 20,25;77:4,23;78:6,	
168:20 50,000 (1) 135:24 50/50 (1) 111:23	147:9 823 (19) 75:6,7,12,16;76:8,9, 20,25;77:4,23;78:6, 10,15,22;140:1,9;	
168:20 50,000 (1) 135:24 50/50 (1) 111:23 500 (3)	147:9 823 (19) 75:6,7,12,16;76:8,9, 20,25;77:4,23;78:6,	
168:20 50,000 (1) 135:24 50/50 (1) 111:23 500 (3) 142:12;177:7;183:5	147:9 823 (19) 75:6,7,12,16;76:8,9, 20,25;77:4,23;78:6, 10,15,22;140:1,9; 141:13,14,14	
168:20 50,000 (1) 135:24 50/50 (1) 111:23 500 (3) 142:12;177:7;183:5 5006 (1)	147:9 823 (19) 75:6,7,12,16;76:8,9, 20,25;77:4,23;78:6, 10,15,22;140:1,9;	
168:20 50,000 (1) 135:24 50/50 (1) 111:23 500 (3) 142:12;177:7;183:5 5006 (1) 208:21	147:9 823 (19) 75:6,7,12,16;76:8,9, 20,25;77:4,23;78:6, 10,15,22;140:1,9; 141:13,14,14 9	
168:20 50,000 (1) 135:24 50/50 (1) 111:23 500 (3) 142:12;177:7;183:5 5006 (1)	147:9 823 (19) 75:6,7,12,16;76:8,9, 20,25;77:4,23;78:6, 10,15,22;140:1,9; 141:13,14,14	
168:20 50,000 (1) 135:24 50/50 (1) 111:23 500 (3) 142:12;177:7;183:5 5006 (1) 208:21	147:9 823 (19) 75:6,7,12,16;76:8,9, 20,25;77:4,23;78:6, 10,15,22;140:1,9; 141:13,14,14 9	
168:20 50,000 (1) 135:24 50/50 (1) 111:23 500 (3) 142:12;177:7;183:5 5006 (1) 208:21 5012 (1) 47:18	147:9 823 (19) 75:6,7,12,16;76:8,9, 20,25;77:4,23;78:6, 10,15,22;140:1,9; 141:13,14,14 9 90/120-day (1) 65:24	
168:20 50,000 (1) 135:24 50/50 (1) 111:23 500 (3) 142:12;177:7;183:5 5006 (1) 208:21 5012 (1) 47:18 5021 (2)	147:9 823 (19) 75:6,7,12,16;76:8,9, 20,25;77:4,23;78:6, 10,15,22;140:1,9; 141:13,14,14 9 90/120-day (1) 65:24 94 (1)	
168:20 50,000 (1) 135:24 50/50 (1) 111:23 500 (3) 142:12;177:7;183:5 5006 (1) 208:21 5012 (1) 47:18 5021 (2) 208:14,21	147:9 823 (19) 75:6,7,12,16;76:8,9, 20,25;77:4,23;78:6, 10,15,22;140:1,9; 141:13,14,14 9 90/120-day (1) 65:24 94 (1) 74:2	
168:20 50,000 (1) 135:24 50/50 (1) 111:23 500 (3) 142:12;177:7;183:5 5006 (1) 208:21 5012 (1) 47:18 5021 (2) 208:14,21 5033.1 (1)	147:9 823 (19) 75:6,7,12,16;76:8,9, 20,25;77:4,23;78:6, 10,15,22;140:1,9; 141:13,14,14 9 90/120-day (1) 65:24 94 (1) 74:2 96 (1)	
168:20 50,000 (1) 135:24 50/50 (1) 111:23 500 (3) 142:12;177:7;183:5 5006 (1) 208:21 5012 (1) 47:18 5021 (2) 208:14,21 5033.1 (1) 93:3	147:9 823 (19) 75:6,7,12,16;76:8,9, 20,25;77:4,23;78:6, 10,15,22;140:1,9; 141:13,14,14 9 90/120-day (1) 65:24 94 (1) 74:2 96 (1) 17:1	
168:20 50,000 (1) 135:24 50/50 (1) 111:23 500 (3) 142:12;177:7;183:5 5006 (1) 208:21 5012 (1) 47:18 5021 (2) 208:14,21 5033.1 (1) 93:3 50s (1)	147:9 823 (19) 75:6,7,12,16;76:8,9, 20,25;77:4,23;78:6, 10,15,22;140:1,9; 141:13,14,14 9 90/120-day (1) 65:24 94 (1) 74:2 96 (1) 17:1 99 (2)	
168:20 50,000 (1) 135:24 50/50 (1) 111:23 500 (3) 142:12;177:7;183:5 5006 (1) 208:21 5012 (1) 47:18 5021 (2) 208:14,21 5033.1 (1) 93:3 50s (1) 72:10	147:9 823 (19) 75:6,7,12,16;76:8,9, 20,25;77:4,23;78:6, 10,15,22;140:1,9; 141:13,14,14 9 90/120-day (1) 65:24 94 (1) 74:2 96 (1) 17:1	
168:20 50,000 (1) 135:24 50/50 (1) 111:23 500 (3) 142:12;177:7;183:5 5006 (1) 208:21 5012 (1) 47:18 5021 (2) 208:14,21 5033.1 (1) 93:3 50s (1) 72:10 526 (1)	147:9 823 (19) 75:6,7,12,16;76:8,9, 20,25;77:4,23;78:6, 10,15,22;140:1,9; 141:13,14,14 9 90/120-day (1) 65:24 94 (1) 74:2 96 (1) 17:1 99 (2)	
168:20 50,000 (1) 135:24 50/50 (1) 111:23 500 (3) 142:12;177:7;183:5 5006 (1) 208:21 5012 (1) 47:18 5021 (2) 208:14,21 5033.1 (1) 93:3 50s (1) 72:10 526 (1) 166:11	147:9 823 (19) 75:6,7,12,16;76:8,9, 20,25;77:4,23;78:6, 10,15,22;140:1,9; 141:13,14,14 9 90/120-day (1) 65:24 94 (1) 74:2 96 (1) 17:1 99 (2)	
168:20 50,000 (1) 135:24 50/50 (1) 111:23 500 (3) 142:12;177:7;183:5 5006 (1) 208:21 5012 (1) 47:18 5021 (2) 208:14,21 5033.1 (1) 93:3 50s (1) 72:10 526 (1) 166:11 56 (1)	147:9 823 (19) 75:6,7,12,16;76:8,9, 20,25;77:4,23;78:6, 10,15,22;140:1,9; 141:13,14,14 9 90/120-day (1) 65:24 94 (1) 74:2 96 (1) 17:1 99 (2)	
168:20 50,000 (1) 135:24 50/50 (1) 111:23 500 (3) 142:12;177:7;183:5 5006 (1) 208:21 5012 (1) 47:18 5021 (2) 208:14,21 5033.1 (1) 93:3 50s (1) 72:10 526 (1) 166:11	147:9 823 (19) 75:6,7,12,16;76:8,9, 20,25;77:4,23;78:6, 10,15,22;140:1,9; 141:13,14,14 9 90/120-day (1) 65:24 94 (1) 74:2 96 (1) 17:1 99 (2)	
168:20 50,000 (1) 135:24 50/50 (1) 111:23 500 (3) 142:12;177:7;183:5 5006 (1) 208:21 5012 (1) 47:18 5021 (2) 208:14,21 5033.1 (1) 93:3 50s (1) 72:10 526 (1) 166:11 56 (1) 171:16	147:9 823 (19) 75:6,7,12,16;76:8,9, 20,25;77:4,23;78:6, 10,15,22;140:1,9; 141:13,14,14 9 90/120-day (1) 65:24 94 (1) 74:2 96 (1) 17:1 99 (2)	
168:20 50,000 (1) 135:24 50/50 (1) 111:23 500 (3) 142:12;177:7;183:5 5006 (1) 208:21 5012 (1) 47:18 5021 (2) 208:14,21 5033.1 (1) 93:3 50s (1) 72:10 526 (1) 166:11 56 (1)	147:9 823 (19) 75:6,7,12,16;76:8,9, 20,25;77:4,23;78:6, 10,15,22;140:1,9; 141:13,14,14 9 90/120-day (1) 65:24 94 (1) 74:2 96 (1) 17:1 99 (2)	
168:20 50,000 (1) 135:24 50/50 (1) 111:23 500 (3) 142:12;177:7;183:5 5006 (1) 208:21 5012 (1) 47:18 5021 (2) 208:14,21 5033.1 (1) 93:3 50s (1) 72:10 526 (1) 166:11 56 (1) 171:16	147:9 823 (19) 75:6,7,12,16;76:8,9, 20,25;77:4,23;78:6, 10,15,22;140:1,9; 141:13,14,14 9 90/120-day (1) 65:24 94 (1) 74:2 96 (1) 17:1 99 (2)	
168:20 50,000 (1) 135:24 50/50 (1) 111:23 500 (3) 142:12;177:7;183:5 5006 (1) 208:21 5012 (1) 47:18 5021 (2) 208:14,21 5033.1 (1) 93:3 50s (1) 72:10 526 (1) 166:11 56 (1) 171:16 6	147:9 823 (19) 75:6,7,12,16;76:8,9, 20,25;77:4,23;78:6, 10,15,22;140:1,9; 141:13,14,14 9 90/120-day (1) 65:24 94 (1) 74:2 96 (1) 17:1 99 (2)	
168:20 50,000 (1) 135:24 50/50 (1) 111:23 500 (3) 142:12;177:7;183:5 5006 (1) 208:21 5012 (1) 47:18 5021 (2) 208:14,21 5033.1 (1) 93:3 50s (1) 72:10 526 (1) 166:11 56 (1) 171:16 6 60 (1)	147:9 823 (19) 75:6,7,12,16;76:8,9, 20,25;77:4,23;78:6, 10,15,22;140:1,9; 141:13,14,14 9 90/120-day (1) 65:24 94 (1) 74:2 96 (1) 17:1 99 (2)	
168:20 50,000 (1) 135:24 50/50 (1) 111:23 500 (3) 142:12;177:7;183:5 5006 (1) 208:21 5012 (1) 47:18 5021 (2) 208:14,21 5033.1 (1) 93:3 50s (1) 72:10 526 (1) 166:11 56 (1) 171:16 6 60 (1) 101:1	147:9 823 (19) 75:6,7,12,16;76:8,9, 20,25;77:4,23;78:6, 10,15,22;140:1,9; 141:13,14,14 9 90/120-day (1) 65:24 94 (1) 74:2 96 (1) 17:1 99 (2)	
168:20 50,000 (1) 135:24 50/50 (1) 111:23 500 (3) 142:12;177:7;183:5 5006 (1) 208:21 5012 (1) 47:18 5021 (2) 208:14,21 5033.1 (1) 93:3 50s (1) 72:10 526 (1) 166:11 56 (1) 171:16 6 60 (1) 101:1 600 (1)	147:9 823 (19) 75:6,7,12,16;76:8,9, 20,25;77:4,23;78:6, 10,15,22;140:1,9; 141:13,14,14 9 90/120-day (1) 65:24 94 (1) 74:2 96 (1) 17:1 99 (2)	
168:20 50,000 (1) 135:24 50/50 (1) 111:23 500 (3) 142:12;177:7;183:5 5006 (1) 208:21 5012 (1) 47:18 5021 (2) 208:14,21 5033.1 (1) 93:3 50s (1) 72:10 526 (1) 166:11 56 (1) 171:16 6 60 (1) 101:1 600 (1) 167:8	147:9 823 (19) 75:6,7,12,16;76:8,9, 20,25;77:4,23;78:6, 10,15,22;140:1,9; 141:13,14,14 9 90/120-day (1) 65:24 94 (1) 74:2 96 (1) 17:1 99 (2)	
168:20 50,000 (1) $135:24$ 50/50 (1) $111:23$ 500 (3) $142:12;177:7;183:5$ 5006 (1) $208:21$ 5012 (1) $47:18$ 5021 (2) $208:14,21$ 5033.1 (1) $93:3$ 50s (1) $72:10$ 526 (1) $166:11$ 56 (1) $171:16$ 6 60 (1) $101:1$ 600 (1) $167:8$ 605 (3)	147:9 823 (19) 75:6,7,12,16;76:8,9, 20,25;77:4,23;78:6, 10,15,22;140:1,9; 141:13,14,14 9 90/120-day (1) 65:24 94 (1) 74:2 96 (1) 17:1 99 (2)	
$\begin{array}{r} 168:20\\ \textbf{50,000 (1)}\\ 135:24\\ \textbf{50/50 (1)}\\ 111:23\\ \textbf{500 (3)}\\ 142:12;177:7;183:5\\ \textbf{5006 (1)}\\ 208:21\\ \textbf{5012 (1)}\\ 47:18\\ \textbf{5021 (2)}\\ 208:14,21\\ \textbf{5033.1 (1)}\\ 93:3\\ \textbf{50s (1)}\\ 72:10\\ \textbf{526 (1)}\\ 166:11\\ \textbf{56 (1)}\\ 171:16\\ \hline \textbf{6}\\ \hline \textbf{60 (1)}\\ 101:1\\ \textbf{600 (1)}\\ 167:8\\ \textbf{605 (3)}\\ 85:22;86:5;96:23\\ \end{array}$	147:9 823 (19) 75:6,7,12,16;76:8,9, 20,25;77:4,23;78:6, 10,15,22;140:1,9; 141:13,14,14 9 90/120-day (1) 65:24 94 (1) 74:2 96 (1) 17:1 99 (2)	
168:20 50,000 (1) 135:24 50/50 (1) 111:23 500 (3) 142:12;177:7;183:5 5006 (1) 208:21 5012 (1) 47:18 5021 (2) 208:14,21 5033.1 (1) 93:3 50s (1) 72:10 526 (1) 166:11 56 (1) 171:16 6 60 (1) 101:1 600 (1) 167:8 605 (3) 85:22;86:5;96:23 605a (2)	147:9 823 (19) 75:6,7,12,16;76:8,9, 20,25;77:4,23;78:6, 10,15,22;140:1,9; 141:13,14,14 9 90/120-day (1) 65:24 94 (1) 74:2 96 (1) 17:1 99 (2)	
168:20 50,000 (1) 135:24 50/50 (1) 111:23 500 (3) 142:12;177:7;183:5 5006 (1) 208:21 5012 (1) 47:18 5021 (2) 208:14,21 5033.1 (1) 93:3 50s (1) 72:10 526 (1) 166:11 56 (1) 171:16 6 60 (1) 101:1 600 (1) 167:8 605 (3) 85:22;86:5;96:23 605a (2) 93:5,6	147:9 823 (19) 75:6,7,12,16;76:8,9, 20,25;77:4,23;78:6, 10,15,22;140:1,9; 141:13,14,14 9 90/120-day (1) 65:24 94 (1) 74:2 96 (1) 17:1 99 (2)	
168:20 50,000 (1) 135:24 50/50 (1) 111:23 500 (3) 142:12;177:7;183:5 5006 (1) 208:21 5012 (1) 47:18 5021 (2) 208:14,21 5033.1 (1) 93:3 50s (1) 72:10 526 (1) 166:11 56 (1) 171:16 6 60 (1) 101:1 600 (1) 167:8 605 (3) 85:22;86:5;96:23 605a (2)	147:9 823 (19) 75:6,7,12,16;76:8,9, 20,25;77:4,23;78:6, 10,15,22;140:1,9; 141:13,14,14 9 90/120-day (1) 65:24 94 (1) 74:2 96 (1) 17:1 99 (2)	

UNITED STATES DEPARTMENT OF AGRICULTURE NATIONAL ORGANIC PROGRAM NATIONAL ORGANIC STANDARDS BOARD (NOSB) SPRING 2024 PUBLIC COMMENT WEBINAR Thursday, April 25, 2024 11:00 a.m., EST Day 2

1	National Organic Standards Board (NOSB) Members
2	Kyla Smith, NOSB Chair
3	Amy Bruch, NOSB Vice Chair (Virtual)
4	Nate Lewis, NOSB Secretary
5	Brian Caldwell
6	Jerry D'Amore
7	Carolyn Dimitri
8	Kim Huseman
9	Mindee Jeffery
10	Allison Johnson
11	Dilip Nandwani
12	Nate Powell-Palm
13	Logan Petrey (Virtual)
14	Franklin Quarcoo
15	Wood Turner
16	Javier Zamora (absent)
17	
18	
19	
20	
21	
22	
23	
24	
25	

1	USDA/National Organic Program Staff
2	Jared Clark, Acting Assistant Director, and
3	National List Manager, Standards
4	Andrea Holm, Agricultural Marketing Specialist, Standards
5	Johanna Mirenda, Agricultural Marketing Specialist,
6	Standards
7	Heather Kumar, NOSB Technical Support Staff
8	Esu Obu, NOSB Technical Support Staff
9	Michelle Arsenault, Advisory Committee Specialist
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
L	

1 PROCEEDINGS 2 (Time: 11:00 a.m.) MS. ARSENAULT: Welcome, folks. I think everybody is 3 4 in from the waiting room. Looks like we have about 47 people 5 online with us at the moment. We'll get started in just a 6 second. I know it's early on the West Coast for some. It's 7 early on the East Coast for me. Let me get one of the Board 8 members also here. 9 All right. Okay. If everybody is ready, I think I 10 have the top of the hour, 11 o'clock Eastern time, 8 Pacific. 11 We'll get started. 12 We're going to reconvene the meeting from Tuesday where we recessed for the evening. Thank you for joining, by 13 14 the way, the public comment webinars. This is Day Two of the two-day comment webinar, and then we will continue the meeting 15 16 next week in person in Milwaukee where the Board will be doing all their business, Board business, and voting, and et cetera. 17 So if you're online with us, you should see an 18 19 instruction slide. If you're on the phone only, I'm going to 20 go ahead and summarize briefly. So for attendees, you're going to be in mute, and unable to mute yourself during the call. 21 22 The chat is enabled, though. You'll find the chat button in 23 the center of the Zoom task bar so you can chat with each other 24 or relay technical difficulties to NOP. 25 Chats are not part of the public record, and I think

Andrea just added the phone numbers dial in and how to go about reporting technical difficulties. She put that in the chat for you guys. So chats are not part of the public record and are not a public comment. The Board members will not be answering guestions in the chat, but you're welcome to say hello to each other and chat with each other there.

7 Closed captioning is available in Zoom. If you click 8 the live transcript or the CC button -- it's kind of to the 9 right in the Zoom task bar -- you can control your own view. 10 You can turn captioning on or off. You can change the font And Zoom just launched a bunch of different languages, 11 size. 12 so you can change the language that you want to see, and if you 13 change it for yourself, you won't change it for everyone else, 14 so don't worry about that.

Please don't use the raised hand feature which you'll find in the Zoom task bar as well. All commenters had to register ahead of time, and the Board chair will call on them in turn.

You can customize your own view in Zoom, so you can rearrange what you see on your personal screen by going to the upper right corner and finding the view button. You can toggle between gallery view, speaker view. And also when we share slides, if you go to exit full screen, it won't take over your whole screen, and, again, it won't change anything for anybody else in the meeting, just for your personal view. We are going 1 to spotlight the speaker timer for everyone, which is in my 2 Zoom tile, so that should remain on your screen no matter what 3 view you are using.

4 If you're having technical problems, you can visit 5 support.zoom.us, or you can log off the meeting and log back in 6 which usually fixes the majority of problems. The webinar is 7 going to be recorded. I haven't started the recording yet, but 8 I just did. And we don't post the recording. We don't save 9 the recording or post the recording. We just have it as sort 10 of a backup. But we will have a full meeting transcript that we'll post to the NOP website as soon as the meeting is over 11 12 and the transcript's available. The transcriptionist is on the 13 call with us today.

So speakers, please make sure that your 14 All right. 15 name is displayed in your video tile so we can locate you when 16 it's your turn to speak. If you happen to be on the phone only 17 with us, we may reach out to you via the chat to make sure that's your phone number so we can mute and unmute you when it 18 19 comes time for you to speak, so keep an eye on the chat box in 20 case we have to reach out.

So we will ask you to unmute when you are called. So you might see a pop-up on the screen that says the host has asked you to unmute yourself. So you can unmute yourself and turn your camera on if you want. Cameras are optional. You don't have to be on camera. Both the mic and the camera widgets are on the bottom left side of your Zoom taskbar and also next to your name in the participant list under the ellipsis of the three dots. If you're on the phone only, and you don't have a mute button on your phone, you can use star six to toggle between mute and unmute.

7 So when you come to the mic, we ask that you please state your name and affiliation for the record at the start of 8 9 your comment. Kyla's going to remind you of that throughout 10 the day. Each commenter will have three minutes to speak, and we're going to use a timer that will sound when your time is 11 When you hear the beep, please finish your sentence. And, 12 up. again, the timer will be visible in my Zoom tile, which we'll 13 14 pin to the screen.

Now I'm going to turn the mic over to Jared Clark,
the National List Manager and Acting Assistant Director of the
Standards Division, for a few welcoming remarks.

18 Jared.

19 Thank you, Michelle. Hello again, MR. CLARK: 20 everyone. I'm Jared Clark, the Acting Assistant Director of 21 the Standards Division in the National Organic Program. Like 22 Michelle mentioned, today is a continuation of our two-day public comment webinar. Welcome back to those who attended on 23 24 Tuesday, and welcome to those who are attending for the first 25 time today.

We continue to be grateful for our ability to engage in these virtual sessions which allow people to participate from wherever they are. I think we saw some people calling from Tractors on Tuesday. That was nice to see. Thank you all again for engaging in this process to shape policy.

6 After today's webinar, we will reconvene next week in 7 Milwaukee, Wisconsin, in person. We also plan to livestream 8 that meeting as we did last fall. Information on how to access 9 those livestreams are on the NOSB meeting page on the USDA 10 website. Transcripts for all segments of these meetings will 11 be posted once they are complete, as Michelle mentioned.

12 This meeting, like all other meetings of the National Organic Standards Board, will be run based on the Federal 13 Advisory Committee Act and the Board's Policies and Procedures 14 15 Manual. Kyle Smith, our Board Chair, will facilitate this 16 session. We remind everyone that it's an open, transparent process, so we ask everyone to be respectful of each other and 17 avoid personal attacks. This extends also to chat messages. 18 19 Even if you disagree with the speaker's position, please be 20 sure to provide them the same respect and grace you would want 21 for yourself. I'll hand the mic back to Michelle, who will do 22 a roll call of Board members. Thank you.

MS. ARSENAULT: Thank you, Jared. All right. So as a way to do roll call and test people's mics and cameras, Kyla Smith.

1 CHAIR SMITH: I'm here. Good morning, everybody. 2 MS. ARSENAULT: Good morning. 3 Amy Bruch. Oh, here's Amy. VICE CHAIR BRUCH: Yes, good morning. 4 Thank you. 5 MS. ARSENAULT: Good morning, Amy. Nate, you're on the phone at the moment 6 Nate Lewis. 7 I think. He may be transitioning from -- ah, there Let's see. 8 I figured we caught him in between transition from he is. 9 phone to computer. 10 BOARD MEMBER LEWIS: I'm here. 11 MS. ARSENAULT: Welcome, Nate. 12 Brian Caldwell. 13 BOARD MEMBER ALDWELL: Good morning, everybody. 14 MS. ARSENAULT: Good morning. 15 Jerry D'Amore. 16 BOARD MEMBER D'AMORE: Hello from California. 17 MS. ARSENAULT: Welcome, Jerry. Carolyn Dimitri is going to be joining a little late, 18 19 but she'll be on the call in a bit. 20 Kim Huseman. 21 BOARD MEMBER HUSEMAN: Good morning. MS. ARSENAULT: Good morning, Kim. 22 23 Mindee Jeffery. 24 BOARD MEMBER JEFFERY: Yep. Good morning. 25 MS. ARSENAULT: Good morning, Mindee.

1 Allison Johnson. 2 BOARD MEMBER JOHNSON: Good morning. MS. ARSENAULT: Good morning. 3 4 Dilip Nandwani. 5 BOARD MEMBER NANDWANI: Good morning, all. 6 MS. ARSENAULT: Good morning, Dilip. 7 Logan Petrey. 8 BOARD MEMBER PETREY: Good morning from Florida. 9 MS. ARSENAULT: Hi, Logan. 10 Nate Powell-Palm. BOARD MEMBER POWELL-PALM: Good morning from Montana. 11 12 MS. ARSENAULT: Good morning. 13 Franklin Quarcoo. 14 BOARD MEMBER QUARCOO: Morning. 15 MS. ARSENAULT: Good morning, Franklin. 16 Wood Turner. 17 BOARD MEMBER TURNER: Good morning. And just a heads 18 up, I keep losing my audio, so just bear with me. I keep 19 joining, like rejoining and rejoining just to get it 20 reestablished, so I don't know what's going on but --MS. ARSENAULT: Okay. We'll keep an eye out for you 21 22 and get you those phone numbers which are in the chat in case 23 you need to dial in. 24 And Javier Zamora. Javier's not with us. 25 So we also have some NOP staff on the call Okay.

with us, backing us up. Andrea and Jared are sharing your slides today,, and so if you do have slides, give them a beat to get things loaded, and sometimes there's a little delay before everyone can see them in the meeting -- go bandwidth. Jo Mirenda's on the call with us. Heather Kumar, who is the food technologist, supports the Board, is on the call with us. And a couple other NOP staff members I see on the

8 line with us. So I'm going to hand off the mic now to Kyla
9 Smith, the Chair of the National Organic Standards Board, to
10 get us started for the day. Go, Kyla.

11

CHAIR SMITH: Thanks, Michelle.

Well, yes, just to echo some of what Jared said, welcome to those who are joining us for the first time today, and welcome back to those diehards who are holding strong for day two.

I know I really enjoy hearing everybody's
perspectives. I think, you know, obviously if the Board didn't
hear all these diverse perspectives, we'd be making these
decisions in a vacuum, and so it's really valuable that people
choose to show up today and give voice to our agenda topics.
And so, anyway, super grateful. And we have another very full
slate today, so I'm going to get us right into the day.

I do have a couple quick reminders. So just a reminder that there is a policy in our policies and procedures manual about public comments. All speakers who will be 1 recognized signed up during the registration period. Persons 2 must give their names and affiliations for the record at the 3 beginning of their public comment, and I'll remind speakers 4 throughout the day. Proxy speakers are not permitted.

5 Individuals providing public comment shall refrain 6 from making any personal attacks or remarks that might malign 7 the character of any individual. Members of the public are 8 asked to define clearly and succinctly the issues they wish to 9 present before the Board. This will give NOSB members a 10 comprehensible understanding of the speaker's concerns.

I will call on speakers in the order of the schedule 11 12 and will announce the next person or two in the queue so they 13 can prepare. Please, again, remember to state your name and 14 affiliation at the beginning, and then we'll start the timer, and in a minute here I'll have Michelle test out the timer. 15 16 Board members will indicate to me if they have any questions after the speaker is done, and I will call on them. 17 Only NOSB members are allowed to ask questions. 18

Our first speaker today will be Barry Flonnory.
After Barry will be John Rosenow, and then after John is Merry
Clark.

22 So before we have Barry join us, Michelle, can you 23 test out the timer?

24 MS. ARSENAULT: Not hearing it?

25 CHAIR SMITH: I think you have to switch -- did you

1 switch your microphone back over by the timer? 2 I did. MS. ARSENAULT: CHAIR SMITH: Oh, you did? 3 MS. ARSENAULT: I did switch it. 4 5 CHAIR SMITH: You know, it was super quiet at the 6 beginning last time, and then during people's comments I, like, 7 jumped every time. So I think it's going to be fine. 8 MS. ARSENAULT: I just toggled between mics, and I came back to it. Let's see if I kick-started it. 9 10 CHAIR SMITH: Oh, yes. Much louder. Yeah. 11 MS. ARSENAULT: All right. 12 CHAIR SMITH: Okay. So Barry, you can join us, and 13 don't forget to state your name and affiliation, and then you 14 can get started. 15 MS. HOLM: Barry was just here, and he's just 16 disappeared. Okay. 17 CHAIR SMITH: Thanks, Andrea. 18 Well, is John Rosenow with us? 19 MS. ARSENAULT: I don't see John, maybe unless he was 20 on -- we have a bunch of phone numbers with us, but I didn't 21 see his phone number. Merry Clark. Is Mary with us? 22 CHAIR SMITH: Okay. let's go to Merry, and then maybe we can circle back around. 23 24 So Merry, remember to state your name and 25 affiliation, and then you can get started.

1 MS. CLARK: Okay. Hi, everybody. Can you hear me? 2 I'm Merry Clark, and my parents -- this is Okay. All right. 3 I'm going to tell you a short story. John kind of a story. 4 and Merrill Clark started Roseland Organic Farms back in 1980, 5 and we had about 1500 acres, and it was actually the largest 6 organic farm in the state at that time. And, you know, there 7 were droughts and high interest rates, we pressed forward, and 8 by the 90s things were moving along, right?

And then my mom -- this is kind of part of the reason 9 10 I'm here -- she was on the NOSB in 1992, so she was actually the chair of the first livestock committee that existed. 11 And 12 as far as I understand, you're actually still kind of debating the same kind of issues that you were 30 years ago, and I guess 13 14 I'm trying to understand, you know, what's going on with those, 15 mainly the access to pasture. I think that's a big issue 16 that's still being discussed.

17 And after the problems that happened after my dad passed is that my brother took over the operation and, you 18 19 know, while it was certified organic all those years, then he 20 decided, okay, it's just going to be grass-fed, and the land 21 itself is going to be certified organic because he decided a 22 lot of problems with, you know, the expense, the time, the bureaucracy, the paperwork, and then, of course, there is a 23 24 decided lack of certified organic processors in this area of southwestern Michigan kind of, so he was like having to drive 25

1 farther and farther and farther to find that.

2 So also, when Whole Foods came into the area, that 3 also changed the ballgame guite a bit, too. So and also, 4 you've probably heard this before. I may be reiterating a 5 little bit, but the certified organic grass-fed beef is 6 competing, of course, with organic beef that's raised sort of in a CAFO. So that's kind of -- I know probably the Real 7 8 Organic Project people are talking about that, those issues, because that's kind of not a real level playing field, and I 9 10 think Dave Chapman's going to be on here. I don't know if he's going to talk about the same things, but probably. 11

So anyway, back to my mom. She's 86 now. She has Alzheimer's. She's in a nursing home. And the reason I know about this, she left a lot of notes about her experience on the NOSB, and so I'm turning all of that -- all of what she wrote -- into a book, and that's going to be coming out next May, but it's pretty much all her writing.

And I also wanted to know more about the Farm Systems Reform Act which I know is out there, and it's kind of in the Senate somewhere, and I just wanted to know more about what's happening with that, and I think my time is almost up. How did I -- did I --

CHAIR SMITH: Yes, you did great. Thanks so much.
Well, I'm fascinated to read this book when it comes out, I
must say. With my time on the Board, I have been thinking like

15

1 someone's got to, like, write a book. So anyway, I'll be 2 looking forward to it. I see you have a couple questions, 3 Merry, so if you want to just hang tight. 4 Jerry, please go ahead. 5 BOARD MEMBER D'AMORE: Thank you. Good morning. 6 Good morning, Merry. You said that Whole Foods came 7 in and changed things. How did it change your life? 8 MS. CLARK: Well, my brothers were doing -- well, you can't sell as much beef because there's all these -- this other 9 10 source which, of course, is not very -- it's not local, a lot of it is just not local, and so it definitely imposed on the 11 sales. All the beefs that we were selling, people just said, 12 oh, it's going over to South Bend, you know, Indiana. 13 That's 14 where it came in, and it just, yeah, it just -- the sales went 15 So that was part of the problems so -down. 16 BOARD MEMBER D'AMORE: Thank you. 17 CHAIR SMITH: Allison, please go ahead. 18 BOARD MEMBER JOHNSON: There we go. 19 Thank you so much for being here, Merry. It's 20 amazing to see the family legacies in organic are continuing, 21 and I'm really glad that you're here and still engaged. I just wanted to flag for you and others listening, 22 23 we as a board can provide recommendations to the U.S. 24 Department of Agriculture about -- so what we can do under the 25 existing laws. Something like the Farm System Reform Act is

1 new action proposed by Congress. So we're so glad to have you 2 here talking with us, and we're going to do everything we can 3 within our purview to address the issues that you've raised and 4 others have raised.

5 But it's also really important for everyone to be 6 talking to your members of Congress, writing to legislators. 7 This is appropriation season, so the budget for the U.S. 8 Government is under discussion, the Farm Bill is under 9 discussion. So definitely keep showing up here and also keep 10 showing up in your members of Congress' offices and by email 11 and phone calls.

You mentioned processing, and I'm curious to hear if you see it opening up. There have been a lot of funding opportunities coming through for processing generally in the meat sector and organic hopefully, and I'm curious if you have a sense of what it would take for your brother to re-up his certification for the herd and actually get those meat products to market as organic.

MS. CLARK: That's a whole other part of the story that I didn't quite get to, but, you know, my brothers are getting older, and I know it sounds like, well, how come you're not doing anything? You're the sister. But that's a whole other issue. But the answer is probably not because they aren't doing it to the level -- because, like I said, they're getting older and the next generation is like, oh, I don't know 1 what I want to do.

And then there's actually a solar company coming into the area and leasing some of our land, and so now a lot of it is going to become a solar farm, and I don't have a problem with that.

6 So the herd is very -- so they're not doing a whole 7 lot of -- so I actually don't know about this -- the processors 8 and all of that. I wouldn't know that because we've kind of -the business is much smaller than -- I'd have to ask my 9 10 brother, and I don't think he's looked around a whole lot. Ι don't know where he's going really right now, but probably not 11 to a certified organic processor because I know that's a whole 12 other -- I think it's going to Byron Center someplace. 13 So but I don't think that's a certified organic processor. Now that 14 was part of the problem is that, you know, that's -- there's 15 16 all those things that have to be done, and it's hard to --

BOARD MEMBER JOHNSON: Yeah, it's really complicated. Thank you. Definitely understand that there are a lot of considerations that go into this. So thanks for being here and sharing your story.

21

MS. CLARK: Thanks.

22 CHAIR SMITH: Nate, please go ahead.

BOARD MEMBER POWELL-PALM: Merry, this has been the best start to any NOSB Thursday I have ever had. What a great story. Thank you for joining us today.

1 A question I would have is -- I'm a beef guy,, I 2 really appreciate you bringing the beef question to bear -- and 3 I was wondering if you could speak to any evidence for CAFO 4 beef being the problem versus imported beef being the problem. 5 And by problem I just mean, you know, hard on American markets. 6 MS. CLARK: I'd say they're both. 7 BOARD MEMBER POWELL-PALM: Okay. Could you speak a 8 little bit more to -- I just can't find any CAFO beef. Like I 9 can't find any certified organic feedlots in the organic 10 integrity database. It all seems to be imported. So I was wondering if you could point us to some of those companies or, 11 you know, areas that you're seeing it come from. 12 MS. CLARK: I would not know that. I would not know. 13 14 I think it's all -- doesn't it all go to Burger King or 15 something like that. I would not know. 16 BOARD MEMBER POWELL-PALM: Oh, for organic, yeah, for 17 organic CAFO beef. Oh, of course, that's not Burger King. 18 MS. CLARK: 19 Organic CAFO beef. Yeah, I don't know. I don't know. I just 20 know that they're -- that you can call it certified organic 21 even if it was raised in that manner because --22 BOARD MEMBER POWELL-PALM: Totally, yeah. 23 I think that it maybe should not be. MS. CLARK: 24 BOARD MEMBER POWELL-PALM: Do you think that would 25 help our market, though, if none of it exists right now?

1 MS. CLARK: If none of --2 BOARD MEMBER POWELL-PALM: If no CAFO beef is making it to market right now, do you think changing --3 4 MS. CLARK: Meat organic? I mean, organic? 5 BOARD MEMBER POWELL-PALM: Yeah. Yeah. 6 MS. CLARK: Well, yeah, I think that's a whole thing 7 is here's got to be a lot of outreach because I don't think the 8 consumer, from a consumer standpoint, no one -- they don't know 9 because it's not, you know, the -- I don't know. That's a good 10 point because I don't know if the consumer really understands. I would love to follow up. 11 BOARD MEMBER POWELL-PALM: 12 Appreciate you being here today. They are important Yeah. 13 issues. 14 MS. CLARK: Okay. BOARD MEMBER POWELL-PALM: 15 Thank you. 16 You know, Dave's probably going to talk MS. CLARK: 17 about this. I don't know. Probably. But Dave Chapman. CHAIR SMITH: Oh, one more. 18 19 Mindee, please go ahead. 20 BOARD MEMBER JEFFERY: Well, Merry, I just wanted to thank you for coming in, and thank you and your family for all 21 22 of your service to the food system. 23 MS. CLARK: Thanks. 24 CHAIR SMITH: Thanks so much, Merry. Appreciate it. 25 And like, yeah, when the book comes out, get it circulate it

1 out like --Well, is it okay if I put it in the chat? 2 MS. CLARK: 3 But I didn't know if it was okay to let --4 BOARD MEMBER POWELL-PALM: Oh, yeah, go ahead. 5 MS. CLARK: I can put the title? 6 CHAIR SMITH: Yeah. Put it in the chat and put the 7 title. 8 MS. CLARK: Can I just tell you right now? 9 CHAIR SMITH: Sure. 10 MS. CLARK: It's called Dandelion Roots Run Deep. And I don't know if it's that, but --11 12 Okay. Yeah, put it in the chat. CHAIR SMITH: MS. CLARK: I didn't know that was like kosher or 13 whatever. But so it's both of us. So it's -- there's my mom, 14 15 so I put her name first because it's really mostly -- it's 16 I mean, she worked her whole life on it, and I said, hers. 17 well, I've got to do this. I have to. I just have to do it. CHAIR SMITH: Thanks for being with us today. 18 19 Appreciate your comments. 20 I believe we have Barry back on the line. Barry, are 21 you here? 22 MR. FLONNORY: Yes, I'm present. 23 CHAIR SMITH: Wonderful. Okay. Don't forget to 24 state your name and affiliation, and then you can get started 25 with your comments.

1 MR. FLONNORY: Barry Flonnory, BF Farm Enterprises. 2 We farm about a -- we own 163 acres, We're in Bartow, Georgia. 3 and we farm about 1,000 acres. I'm in the midst of transition, 4 and my three comments are of the NCRS Organic Transition 5 It's they have a poor or hard time administering the Program. 6 They don't know a lot of the policies and procedures. program. 7 And in conjunction with that, the Conservation Steward Program, 8 they don't know how to tie it together. And then the 9 Environmental Quality Incentive Program also, they don't know 10 how to manage the three of them.

Then the second one is the transition cost during the 11 12 period of transition. You're following organic practices, but at the end of the year you have to buy land and equipment doing 13 the transition. There's a lot of cost involved, and if they 14 15 can help with that also. And then during that three-year 16 period, you're doing organic practices but you're selling So if there's a way to help during that 17 conventional prices. 18 period, it would be greatly appreciated. And those are my 19 three comments.

CHAIR SMITH: Thanks so much.

21

20

25

MR. FLONNORY: Thank you.

CHAIR SMITH: Yeah, thanks so much, Barry. If you want to just hang tight for a couple minutes, we have some questions for you from some board members.

Nate, please go ahead.

1 BOARD MEMBER POWELL-PALM: Thank you so much for your 2 comments, Barry, and for joining us today. Could you speak a 3 little bit more to the programs you've applied for? Have you 4 tried to get some 823 funding? Or what all have you tried to 5 apply for with NRCS? We have heard from other farmers that 6 this is -- seems like an opportunity that's being missed, so 7 we'd love to hear just a few more details about that.

8 MR. FLONNORY: Yes, I applied for all three, the 9 Organic Transition Program, which they can hardly answer one 10 question, they could tell you the topic, and that's probably 11 it. She emailed, I think, the state representative, and they 12 didn't know either, so a lot of questions that were unanswered.

I've been a part of the Conservation Steward Program, CPS, but they don't know how to tie it to the organic transition. Same as the EQIP program. I have been receiving funds, but they don't know how to tie the Organic Transition Program to it. So it's a major concern because every cent helps when you're transitioning, and even after you transition.

BOARD MEMBER POWELL-PALM: Absolutely. Yeah, I know. I really appreciate that. You're in, I think, the Southeast TOPP region. And so, yeah, I would love to follow up with you to see how we can help you out, especially if you're TOPP. But thank you for taking the time to talk to us and raise these issues.

25

MR. FLONNORY: Thank you.

CHAIR SMITH:

Allison, please go ahead.

1

25

2 BOARD MEMBER JOHNSON: Hi, Larry. Thanks so much for 3 being here and for sharing that feedback. Even though it's 4 frustrating, I think the more that we start to air what is 5 working and not working the more we can offer recommendations 6 to USDA about how to improve how the different pieces of the 7 program work together. So I'm sorry you've gone through this, 8 and I hope we'll be able to help you improve it.

9 I'm curious to hear how the transition process has 10 gone for you aside from these programs not working, what 11 changes you're seeing on the farm, what opportunities are 12 opening up, and kind of what is causing you to stick with it 13 even though the support programs haven't been there in the way 14 that they should be yet.

15 MR. FLONNORY: It's -- I would say it's tough at 16 best,, but when you want to do something, and you have a will 17 to do it, you figure out a way to get it done. So it is very, 18 very -- I can say it's very, very tough. But I want a 19 transition. I want the working environment to be safe for the 20 employees and my family. I want to raise quality feed and So that's why I'm sticking with it. 21 food.

BOARD MEMBER JOHNSON: Thank you for your commitment. That's amazing. And hopefully we'll be able to smooth the path out for you in the years moving forward.

MR. FLONNORY: Thank you.

1 Amy, please go ahead. CHAIR SMITH: VICE CHAIR BRUCH: Allison kind of tackled my 2 question. But, Barry, thank you so much for joining us, and 3 4 definitely we want to make sure we can follow up and get you 5 the technical resources you need to be successful. This is a 6 great way to farm, and we want to make sure that you can, yeah, 7 have success. So thanks. 8 MR. FLONNORY: All right. Thank you. 9 Logan, please go ahead. CHAIR SMITH: 10 BOARD MEMBER PETREY: Hey, Barry. I'm Logan. I'm 11 actually in the Florida-Georgia area, so close to you. Yeah, thanks for coming on. And I was just curious, what are you --12 13 what kind of farming system do you have? Are you vegetable or 14 row crop? 15 MR. FLONNORY: It's row crop. 16 BOARD MEMBER PETREY: Pardon? 17 MR. FLONNORY: It's row crop. 18 BOARD MEMBER PETREY: Okav. 19 MR. FLONNORY: And right now I'm doing a lot of milo and soybeans. Once I get certified, we'll probably expand 20 21 more. 22 BOARD MEMBER PETREY: Okay. Great. Thank you. 23 MR. FLONNORY: Thank you. 24 CHAIR SMITH: One more from Nate. 25 BOARD MEMBER POWELL-PALM: Tiny, tiny question.

Barry, are you enrolled in the TOPP program as a transitioning mentee? MR. FLONNORY: Yes, I am. I have --

4 BOARD MEMBER POWELL-PALM: Okay. Good enough. 5 MR. FLONNORY: Yes, I have three representatives 6 that's helping me right now. 7 BOARD MEMBER POWELL-PALM: Awesome. All right. 8 MR. FLONNORY: Thank you. 9 CHAIR SMITH: Thanks, Nate. I was going to ask. 10 Barry, thanks so much for joining us, and Okay. really appreciate you taking the time -- or spending some time 11 with us this morning. Your comments were valuable. 12 13 MR. FLONNORY: Well, thank you,, and any time. 14 CHAIR SMITH: Okay. Do we have John Rosenau Great. 15 on the line? 16 MS. ARSENAULT: I'm still not seeing John, Kyla. We 17 have a bunch of unidentified phone numbers on the call with us, and speakers who signed up and didn't include their phone 18

19 number, so I can't match them.

20 CHAIR SMITH: Okay. John, if you're there, if you 21 could just chat in that you're there. We're going to move 22 along, but we want to circle back to you if you are here.

Okay. Sorry for not giving advance warning here to
Joe Freeze, but, Joe, you'll be up next. Then we have Aaron
Zimmerman and then Kestrel Burcham.

1 So Joe, are you there? 2 MS. ARSENAULT: I'm also not seeing Joe in the Zoom 3 participant list, and I see only on the phone. 4 CHAIR SMITH: Okay. 5 MS. ARSENAULT: And Aaron canceled this morning, 6 so --7 CHAIR SMITH: Oh, okay. Sorry. 8 MS. ARSENAULT: That's okay. 9 CHAIR SMITH: Yeah, make it onto my sheet. Okay. 10 Kestrel Burcham, are you there? 11 MS. BURCHAM: Yes, I'm here. 12 CHAIR SMITH: Oh, great. 13 MS. BURCHAM: Can you hear me okay? 14 CHAIR SMITH: I can hear you. It was breaking up a little bit, so we'll see how it goes as you start. But before 15 16 you start, let me just announce a couple --17 MS. BURCHAM: All right. CHAIR SMITH: -- hold on one second. Let me just 18 19 announce a couple down the line. 20 MS. BURCHAM: Sure. After Kestrel, we have Dan Giacomini 21 CHAIR SMITH: 22 and then Matt Begley. 23 Don't forget to state your name and affiliation, 24 Kestrel, and then you can get started. 25 MS. BURCHAM: Thanks. Good morning, members of the

NOSB and NOP Institute. I am the Policy Director for The
 Cornucopia Institute.

I'm going to be blunt. We are flooded with bad news. 3 4 Extreme weather patterns have continued into 2024 with 5 scientists worried that we have already breached the crucial 6 1.5 Celsius warming threshold outlined in the Paris Climate 7 Agreement. Consumer health continues to decline overall, due 8 in part to poor regulation of toxins in our environment. Our food system is fragile, and grades food, and nutrition 9 10 insecurity among the most vulnerable. I think many of us in this room would agree that organic food and farming can serve 11 12 as a balm to many of these problems.

I want policymakers and advocates to dream big and 13 14 truly invest in establishing organic production as an 15 alternative to harmful conventional practices rather than a 16 niche product only available to the privileged and ideologues. 17 Organic should be the floor as we move toward a food system that embraces agroecological principles of diversity, co-18 19 creation, resilience, human and social values, and circular and 20 solidarity economies.

To achieve that vision, organic as we know it needs to have high integrity, transparency, and prioritize environmental and human health. These goals require a consistent application of organic regulations. Some problems of consistency are being worked on by the Board and NOP right now, which we are thankful for, but there are always a few
 issues to address.

Specific concerns include: 1) The everyreen problem 3 4 of inert ingredients. Allowing synthetic inert ingredients to 5 still be used without being reviewed and listed on the National List flies against fundamental organic principles - especially 6 7 when we know many of the inert substances are dangerous to 8 human health and environment. We believe that all these ingredients must be listed and the NOP should allocate 9 10 resources as needed.

2) Soil is the foundation of organic agriculture. 11 12 Allowing hydroponic under the organic label is inconsistent with key requirements in the regulations. 13 The lack of consistency in this area is harmful for the organic marketplace 14 15 as a whole and undermines any promise of a food system aligned 16 with agroecological principles. We ask for the Board to call a moratorium on certification of new hydroponic operations until 17 this issue can be resolved. 18

The experiment that is the conventional food system is an absolute failure, especially from the human and environmental health standpoint. The lack of transparency and disregard of the precautionary principle are fundamental to that failure. Organic consumers trust the label. Many in the disabled community, including myself, rely on organic food to maintain functionality in some form. Research continues to

1 back up the environmental health benefits of organic food 2 despite pressure from anti-organic propaganda. 3 It will take hard work to protect food and farming 4 practices we support, but that work is needed to keep moving 5 the needle to a more sustainable and safe future for everyone. 6 In this way, I hope that the organic market organic marketplace 7 can be defined by the phrase: "Once you know better, do 8 better." Thank you for your time and hard work protecting 9 organic integrity. 10 CHAIR SMITH: Thanks, Kestrel. Do we have any questions for Kestrel? I'm not seeing 11 12 any. Thanks so much for your comments today. 13 I think we have Joe Freeze on the line, but we're 14 going to go to Dan and then Matt, and then we'll get Joe after 15 16 those two. So, Dan Giacomini, are you there? Wonderful. 17 State your name and affiliation, and then you can get going. 18 19 MR. GIACOMINI: Thank you. I am Daniel Giacomini. 20 I've been consulting in organics since the 1990s. I'm a former 21 member of the NOSB, serving as board chairman in 2010. Ι 22 support the relisting of all sunset items under consideration. 23 Specifically, I support the current listing of iodine on 603. 24 There's a concern with NPEs and iodine teat dips, but I'm not 25 aware of any such product still on the market.

I support relisting both fenbendazole and moxidectin. However, the NOP needs to review how certifiers are satisfying 238(d)(1), quote, organic livestock operation must have a comprehensive plan to minimize parasite problems, end quote, for recurring non-routine needs.

6 Following the current TR template review, I urge the 7 NOP and the NOSB to review the petition template process. As a 8 major contributor to the recently-submitted producer-supported petition on meloxicam, the current process is biased in favor 9 10 of the manufacturer, and this is a mistake. Adding of substances to the National List should be biased to the 11 12 producers and operations needing the substance. The bias should not be toward the manufacturer wanting to sell the 13 14 product.

The growing of aquatic plants is part of our industry, and I do not see where the value of CO2 in those systems received comment or was considered in the current review. If you reject the petition, please note that the aquatic plant sector's input was limited, and that a future petition to list CO2 from that sector should not be refused as an already-denied substance.

As others have stated, while the industry is booming, our individual farmers are struggling. Every action the NOP takes requiring more time and paperwork up and down the supply chain can increase production costs without improving farm 1 prices.

SOE was significant and welcome, but it will raise operation costs in time and money while offering very little opportunity to increase prices received by organic producers. Please consider this in your future rulemaking before our booming retail industry has no small U.S. farmers supplying it.

7 A petition requesting meloxicam to be added to 603 as 8 an oral pain relief medication is in the hands of the Livestock 9 Subcommittee. Research in pain mitigation in animal care is 10 far beyond where it was at the time of OFPA or even when the 11 pain relief substances were finally added to the National List. 12 Meloxicam is a substance that needs to be added now.

Meloxicam as petitioned would be an oral treatment which is less stressful than any other injection, and it is more effective at pain relief than the allowed oral options. Meloxicam relieves pain for a longer duration, requiring fewer treatments over a 24-hour period. Meloxicam provides improved pain relief with less stress. Please add meloxicam to the National List.

20 CHAIR SMITH: Dan, you have a couple questions.
21 Nate, please go ahead.

BOARD MEMBER POWELL-PALM: Dan, thank you for yourservice to the Board and your expertise today.

24 Could you speak a little bit to how certifiers can 25 manage and review the use of parasiticides better? Is there a 1 reasonable route to requiring more manure tests to try to see 2 actual quantitative test loads? Or what do you see as being 3 the next step to improving that utilization?

MR. GIACOMINI: I'm not aware of that level of technology. I'm not aware of what's really available there and the potential false negatives or positives that would be involved.

8 I would say that I think it's more on the front end 9 side of helping farmers prevent it. I'm not sure there's a lot 10 we can do in the case of an outbreak where a group of animals need to be treated. But I think once that occurs, rather than 11 12 just allowing it to become a routine, non-routine use that the certifiers work with the farmers to get into their organic 13 14 system plan how they're going to minimize the need in the 15 future.

BOARD MEMBER POWELL-PALM: Okay. Thank you.
CHAIR SMITH: Brian, you can go ahead.

BOARD MEMBER CALDWELL: Yeah, Dan, thanks so much foryour comments. Really appreciate them.

I want to follow up a little bit more on parasiticides. We've sort of enlisted a literature review of all the different types of approaches to parasite management in livestock. It's a pretty big project. And if you can forward any specific materials you have, particularly about like holistic, maybe non-pesticide type of management for parasites in livestock -- if you could forward that to Michelle, we'd really appreciate that, and then we can try to circulate that around and digest it within the Board.

So that's really important stuff, and as one of our previous callers said, you know, we've been talking about this issue for like 30 years, and so it's time to really kind of nail it down a little bit. So thanks so much.

8 MR. GIACOMINI: Yeah, let me just say that, you know, on that, the reason this comes up for me is because I was hired 9 10 as a consultant with Merck when they were at one point in time trying to get the awareness of Fenbendazole into the market, 11 12 and I really emphasized to them the need to encourage farmers to develop that plan if they had a situation where they needed 13 14 it multiple times, that it became that routine, non-routine. 15 And it just became aware to me that there didn't seem to be a 16 lot of interaction between the producers and the certifiers 17 that there even really needed to be a plan and what that plan would look like. 18

19 It would be interesting to see what the NOP -- if 20 they surveyed certifiers -- to see what any of them are looking 21 at as a plan now. And also in working with Merck, I told them, 22 you know, you guys supporting this from the plan position is 23 going to improve your opportunity to stay in the market and 24 stay on the National List as helping to be part of the solution 25 and not just an out that you're trying to exploit a problem. BOARD MEMBER CALDWELL: Great, Dan. And any information you might have on the elements of that plan, that's really what we're trying to nail down here, because we need that information as a basis. So really appreciate it.

MR. GIACOMINI: Yep.

5

6

CHAIR SMITH: Nate, please go ahead.

BOARD MEMBER LEWIS: Oh, there we go. Now I've beengiven the power to unmute myself.

9 Thanks, Dan. I had a question from your experience 10 on the Board around the conversation -- when you were on the Board -- around methionine and the Board's decision to apply a 11 12 restriction to that substance in contrast to, say, vitamins and minerals which are allowed without restriction. And I'm 13 14 curious if you could just kind of share just a short summary of 15 just what that conversation was like at the Board. Why add a 16 restriction to that essential amino acid?

MR. GIACOMINI: Well, I don't think at that point intime it would have ever passed without a restriction.

Synthetic amino acids was not something that was going to be allowed. It took a great amount of education and fighting a number of battles to even get it where it was.

We encouraged the industry that a fence was going to have to be put up, and over various times they came with that to us with a number of different ways. Is it methionine? Is it just added methionine? Is it to the total amount of 1 methionine in the diet? Is it cysteine methionine? Created 2 some problems in that they kept trying to change the best 3 target that they thought.

4 In the end, we wanted to get it on the list. We 5 wanted to get it on the list with a fence around it. And at the time we were -- and I think we reviewed methionine three 6 7 times while I was on the Board in the five-year period. So it 8 was in constant discussion. But it was, you know, what we put up then was one of the options that was presented to us. 9 It 10 seemed the most reasonable at the time, but we were very aware of the fact that it might not be the right one. 11 I know a 12 number of years ago they had some -- I believe it was some knuckle issues in chickens due to the ammonia levels due to 13 14 having to raise the natural sources of protein to get up to 15 certain levels, and I think those are animal welfare issues 16 that need to be discussed.

I don't think there were too many people on the 17 Board, especially on the Livestock Committee, that would say 18 19 now -- would say that that fence that we'd put up was only to 20 be reduced. If that fence was shown to us with evidence of 21 brood experience in the houses that it needed to be raised a 22 little bit, then I think that was where we intended. But we 23 wanted to get it on the list and get it -- you know, because at 24 that point in time, the poultry part of the industry was still 25 a developing part, and we wanted to encourage that.

1 But if we're not going to allow any animal slaughter 2 products, and that is part of the rule that we're going to hold 3 sacred, then there was no other way to balance the ration. I 4 mean, my basic is an animal nutritionist. I'm more dairy than 5 poultry, but when you look at the numbers, there's no way in a natural ration with no slaughter products and no animal 6 7 products, and we're not going to even account for the worms 8 that a normal bird -- I won't say that -- but birds can get, 9 you know, an area of ground can only hold so many birds to so 10 many earthworms, and it's just if we're not going to allow the slaughter products, and they need a different level of 11 12 methionine, we had to do something, or we felt we had to do 13 something.

It certainly had its objectors, but that was the 14 15 parameter. We worked with the industry and their task force 16 extensively to try and figure out what those were, but we were very comfortable that this might be the wrong number, and it 17 may be pushed in, we may be able to pull it in, we may need to 18 19 push it out. But let's see what it would take.

20 For a reasonable amount for the industry, getting away from them looking at birds as purely a financial number 21 22 and having to maintain conventional conversion rates and all 23 those things, this was a number that we felt was reasonable, 24 and that's what we're trying to look for.

25

It may have been wrong, and when you look at some of

37

1 the animal welfare comments regarding, you know, maybe it does, 2 But there's a lot of different interests that maybe it is. 3 have to be considered to come up with a reasonable, pragmatic 4 compromise, and that may evolve over time, but that's where we 5 sat, what we did, you know, back in those days. 6 BOARD MEMBER LEWIS: Great. Thank you so much. 7 That's super helpful. I appreciate it. 8 MR. GIACOMINI: Thank you. 9 CHAIR SMITH: We've got one more from Nate, and then 10 I'm still deciding. I might follow up. We'll see. Go ahead, Nate. 11 12 BOARD MEMBER POWELL-PALM: Thanks for letting us 13 throw so many questions at you, Dan. You said something that really sparked kind of a 14 passion point of mine, which is animal welfare in organic, and 15 16 I think when we talk about things like parasiticides, fenbendazole, moxidectin, you know, meloxicam, these pain 17 mitigation strategies, we're talking about animal welfare. 18 19 We're talking about we're asking these animals to be in service 20 of our human needs, and how can we make it easier on them. And I was wondering why or how you think we can start 21 22 talking more about organic being an animal welfare standard, 23 that we have the tools to make an excellent life for these 24 food-producing animals. How can we start engaging that more 25 authentically and bring that to be a bigger piece of awareness

1 for the organic seal?

2 MR. GIACOMINI: That's a tough question from the 3 standpoint that it is hard to hold on to great organic ideas 4 for ourselves. I've been to conferences where sub-therapeutic 5 levels of antibiotics was when it was a routine part of all of 6 conventional agriculture across all sectors. And it was really 7 apparent in the discussions -- and I think I even asked the 8 question and the commenters admitted -- it was a crutch to maintain the level of production they wanted in the 9 10 environmental state they put the animals in.

But since then, we don't have nearly that level of sub-therapeutic antibiotic use or, you know, different things. So we're getting to it in a lot of different ways. We're getting it into it in lower animal density. We're getting it into in cleaner environments. We're getting it into a lot of different ways.

The problem is every time we have a great idea, it's going to get used everywhere, and a number of the things that organics took back from the 50s in livestock farming that were totally lost are now routine again as if they were always there. So I think it's a matter of trying to decide what we can do best, but we do need some things.

You know, I remember when I was on the Board, Hugh Caraman (phonetic) was always of a particular substance on the crop list that would help keep snails and then liver flukes out 1 of pastures from wetlands. So it's doing all those different 2 kind of things.

How we then explain that to the consumer and then own animal welfare, I don't really know. I know that all the animal welfare organizations that have picked up since, even though organic has always tried to kind of own that as a standard between conventional, an additional animal welfare sticker has sort of become the standard.

I mean, I know one dairy farmer, he sells to a 9 10 broker, and he has to have, I think, four different animal welfare reviews because that's all the agencies that the 11 12 different end users -- the different end processors -- want to 13 be able to say they have. So how to keep it back all in 14 organic and show that we're the groundwork of it? Every time 15 we have a great idea, it's going to get taken up and used in 16 the market.

BOARD MEMBER POWELL-PALM: Well, we'd love for you to noodle on the idea of how can we take that all back for organic. Organic is the animal welfare label. So we'd love to follow up in future conversations with you on that. So thank you so much for your comments.

22 MR. GIACOMINI: The one difference though is that 23 animal organic is more of an end product. It's a production 24 system, but it's that marketing standard. It does not, and I 25 don't think it should -- I agree with you -- but I don't think 1 it should become the details of production that some of these 2 certificates try to tell producers how to get something done --3 not what it needs to get done, but they're trying to tell them 4 how to get something done, and that was a battle.

I don't know what the discussion on that has been in the last 10 years, but we tried, and certainly the program at that time tried to maintain, you know, we're looking at the end result. We want the cattle clean. We're not going to tell you what you have to do to keep them clean.

BOARD MEMBER POWELL-PALM: I really appreciate that.
Yeah.

12

I'll hand it off to Kim.

13 CHAIR SMITH: Just a reminder, guys, we're going to 14 like -- this is great, but like not that many commenters in 15 here, guys.

16 BOARD MEMBER HUSEMAN: Again, we're hitting all the 17 highlighted topics, the research priorities of the Livestock Subcommittee, and the Livestock Subcommittee is very near and 18 19 dear to my heart. While we're on that concept, can we follow 20 up with you regarding some of the nutritional packages, both in 21 the dairy and in the poultry segment, and discuss regionally 22 adaptable feed formulations, and how we can use rotational 23 crops to better provide optionality in some of these organic 24 diets to create some stability in the marketplace? Do you feel 25 like there's, like I said, that's a research priority of ours

-- do you feel like there's runway for improvement in the feed
 formulation side with organic products?

3 MR. GIACOMINI: Well, I think there's always an area 4 for improvement, and we always want to look for it where we 5 can. It's very difficult to, number one, assess mineral status 6 of a feed, of an individual crop, so if you're looking at the 7 fact that we're looking at multi-crops with different 8 subspecies in it, it's making it harder.

Different areas and different soils and different 9 10 temperatures and even different times of year have different tie-ups with non-nutritional items that can come up. 11 So even measuring the levels of a mineral in them is difficult. 12 Leveling the bioavailability of the minerals in those 13 substances is even more difficult. So it's not that it's a 14 15 It's just that it's extremely difficult. moving target.

16 I surveyed a number of nutritionists. A producer asked me, well, what would be the ideal plan? And I sort of 17 told him, I'd survey everybody I know. They came back, go to 18 19 NRC at 10 percent. And I said, okay, well, how do we assess 20 And they said, sample all the feeds and take that that? Others would say, sample all the feeds and cut that 21 number. 22 number in half. Others would say, you can sample all the feeds 23 and see whether anything's really screwed up, but really the 24 bioavailability on a lot of those is going to be so low that 25 you need a supplement for it anyway.

1 So assessing all those variables into what the animal 2 actually needs to be properly absorbed in the body is going to 3 make that extremely difficult. And the problem on the research 4 level is for the most part that is not -- for lack of a better 5 word -- that's not a patentable item. Most of the research 6 that's done is driven through grants from companies. There's 7 very little unattached "do the best thinking you can" grant 8 money that used to come from the federal government, for 9 instance, when I was in grad school. That money is not there. 10 So in order to get the money to do this kind of work, I don't know where you'd be looking to get a good continual supply of 11 12 it to conduct a research program.

BOARD MEMBER HUSEMAN: Thank you for your comments.I really appreciate that.

15 CHAIR SMITH: Okay. I do have one question, and that 16 is that from my experience and understanding in certification 17 and talking with some other certifiers, the parasite prevention 18 plan and the practices around preventative measures are all 19 included in the organic system plan. And routine use is their 20 pride, and it is obviously prohibited and, if so, 21 noncompliances are issued.

And so I guess I'm just wondering, from your experience, are you seeing that that's not happening? Like are there issues there? So I guess I'm just trying to like -there is an ACA best practices on this. I do believe that certifiers are -- anyway, so can you help me understand that? Are you seeing something out in the world that is like not -that there's a problem that we need to solve?

MR. GIACOMINI: I think there are some operations that are routinely -- that are trying to do the best they can. Others are just doing something as they feel they need it. I think, if anything, the use of parasiticides, good or bad, is probably underutilized to the benefit of the animal because producers are wanting to maintain the option and the opportunity for organic slaughter as well.

I'm not going to say that the animals are being abused because of that, and anything is being missed, but I think that if we had a better understanding of what it would take and how to help the animals along, maybe we can encourage a more proper use of these.

16 Not to say that we're going to have them used 17 everywhere and not to say that we're opening it up on the beef But I think an overall understanding, you know, quite 18 side. 19 frankly, the end user producers of these products are not the 20 most savvy individuals to the organic regulations. It's the interaction with their certifier of what's allowed, how the 21 22 rule has changed.

I really wonder sometimes how aware each individual producer really was of the fact when ivermectin came off the list. If they had been needing something and that was the only 1 thing on the list, then it became one of a couple of things on 2 the list, then it was no longer on the list, you know, to a lot 3 of them, oh, man, this is just a moving target. This is all 4 fouled up.

5 And, you know, so I think it's just a matter of 6 maintaining a level of communication, including this as a 7 I've seen some of the certifiers, you know, I mean, topic. 8 they can either work with the producer to explain what the plan Okay. How are you going to do it for resting 9 is going to do. 10 pastures? How are you going to do it for the different aspects to a check box? Do you have a plan? Yes. 11 Okay. Good. 12 You've got a plan.

So, you know, and that may be a little bit of an 13 14 exaggeration. I don't want to throw any certifiers under the bus either. But I don't think that the value -- what we're 15 16 trying to do -- what we tried to do with having these on the 17 list to begin with, it is a cost. Once you're an organic producer and you don't want to -- no longer have to transition 18 19 animals anymore or very few, there's a cost to using a product 20 like this, and it needs to be used very judiciously.

But it also needs to be -- we need to be evaluating how we can better work to use it properly and that it gets used within the rule. And just every two years, a different group of animals coming on and somebody saying, well, I had to use the parasiticide this year, if they're open to that. Are they

1 really working a plan to not need it in the future? 2 Thank you. CHAIR SMITH: Okay. Okay. Wonderful. MR. GIACOMINI: Good. 3 You did it. Thanks a lot, Daniel. 4 CHAIR SMITH: 5 Thanks, everybody. Great meeting. MR. GIACOMINI: 6 CHAIR SMITH: Okay. Matt Begley, then I have Peter 7 Gunther, then Tracey Dion. 8 Matt, are you with us? 9 MS. ARSENAULT: Matt is on the line. 10 MR. BEGLEY: Hello. Hi. Before you jump in, sorry, I forgot 11 CHAIR SMITH: that I was going to circle back around to Joe. So it's 12 13 actually going to be Matt, then Joe, then Peter, then Tracey. 14 Sorry about that. 15 MR. BEGLEY: No problem. 16 CHAIR SMITH: Matt, please state your name and 17 affiliation, and you can get started. MR. BEGLEY: All right. Thank you. My name is Matt 18 19 Begley, and I am the Materials Review Specialist at OEFFA, Ohio 20 Ecological Food and Farm Association. I'd like to thank you all on the Board for taking the time to listen to everyone's 21 22 comments. I think that's just great. It's great to be part of 23 an industry that does this. 24 I'd like to just give a few comments on peracetic 25 acid, methionine, and carbon dioxide. Peracetic acid is an

essential substance for sanitation in livestock production and food handling which I expect to remain on the National List. The listing at 205.603(a) for peracetic acid restricts the use of this substance to sanitizing facility and processing equipment but does not include a prohibition against direct contact with animals which is found in the phosphoric acid annotation.

8 We've recently had some requests to review the use of 9 peracetic acid for sanitizing robotic milking equipment. These 10 machines contain roller brushes which clean the teats before 11 milking cups are attached. Peracetic acid is used to sanitize 12 the brushes between animals, but will remain on brushes when 13 they contact the teats.

We don't allow peracetic acid to be used in this situation, but the lack of clarity in the annotation could lead to inconsistencies among certifiers. So we ask that the Board consider this application in their discussion of peracetic acid and that the annotation at 205.603 be updated if peracetic acid is not allowed to contact organic livestock in this manner.

20 Methionine is a necessary amino acid for poultry 21 animals, and supplementation is especially critical given that 22 the current organic standards restrict these animals to a 23 vegetarian diet. We strongly support the allowance of non-24 synthetic sources of methionine, including insects and 25 slaughter byproducts, to be allowed in seed to reduce or 1 eliminate the reliance on synthetic DL-methionine.

2 We suggest that organic sources could be allowed 3 without restriction on amount being said. If they're coming 4 from non-organic sources, we support research into methionine 5 levels contained in these sources to inform a restriction, something along the lines of pounds per restricted feedstock 6 7 per day. This would reduce the need for calculating actual 8 methionine intake which can be an undue burden for some of our 9 smaller growers.

And finally, I'd just like to voice our support against the petition for carbon dioxide in greenhouse production. Aside from the need for greenhouse production standards, we do not support the use of fossil fuel byproducts in organic production. Thank you.

15 CHAIR SMITH: Thanks, Matt. Looks like you have a 16 couple questions.

17

25

Nate, please go ahead.

BOARD MEMBER POWELL-PALM: Thanks for your comments, Matt. I just wanted to make sure I heard you right. OEFFA supports the incorporation of slaughter byproducts in poultry rations?

22 MR. BEGLEY: For the use of -- for the 23 supplementation of DL-methionine -- or, excuse me -- for the 24 supplementation of methionine only. Yes.

BOARD MEMBER POWELL-PALM: And that would be elevated

1 over synthetic methionine, so you'd want to see that used 2 first? MR. BEGLEY: Yes. I believe it's the -- I don't know 3 4 if it's just the Canadian standards or the EU also, but yeah, 5 it was like a hierarchy of natural sources. Maybe it was 6 organic sources, natural sources, and then synthetic sources. 7 BOARD MEMBER POWELL-PALM: I see what you're saying. 8 Thank you. 9 CHAIR SMITH: Logan, please go ahead. 10 BOARD MEMBER PETREY: Hi. Thank you. Okay. So a question about the CO2, and I see that you are against adding 11 12 it to the list. Curious, do you have or know of any 13 alternatives that greenhouse producer users are using for 14 adding or getting CO2 into stuff? 15 My understanding is that the CO2 is depleted, and 16 usually you could just vent the greenhouses, and but during colder weather and in colder climates you're going to have an 17 issue of lowering the temperatures which is really hurting the 18 19 entire point of the greenhouse. And so you're from a little 20 bit colder area than I am from, and so most of the greenhouses 21 around here don't have that issue because are too hot. Just 22 curious, do you have any alternatives for CO2?

23 MR. BEGLEY: I mean we don't really have anyone who's 24 supplementing CO2. A lot of greenhouse -- we're not a lot of 25 large greenhouse production, so I don't know what people are

I don't know if fermenting something in the greenhouse 1 doing. 2 would --BOARD MEMBER HUSEMAN: So the problem is CO2 can't be 3 substituted itself. I just didn't know if there were any other 4 5 methods to keep the greenhouse warm or something like that 6 to help that if they needed to vent or anything. 7 MR. BEGLEY: I don't really know. 8 BOARD MEMBER PETREY: Okay. Thank you. 9 MR. BEGLEY: Yeah, our concern is just the synthetic 10 fossil fuel byproducts. 11 BOARD MEMBER PETREY: Sure. 12 MR. BEGLEY: Yeah. 13 BOARD MEMBER PETREY: Great. Thank you. 14 MR. BEGLEY: Thanks. Appreciate y'all. Thanks so much for your comments, Matt. 15 CHAIR SMITH: 16 We have up next is Joe Freeze. Joe, are you Okay. 17 here with us? MS. ARSENAULT: Joe is on the call. It's muted. 18 19 Joe, if you don't have a mute button on your phone you can hit 20 star six to unmute yourself. Want to try that? It looks like he's having trouble unmuting himself, 21 22 Kyla. Oh, wait. 23 Oh, we see you, Joe. CHAIR SMITH: Oh, I think I 24 just saw -- can you say something? 25 MR. FREEZE: Yeah, are you there?

CHAIR SMITH: Yes, we got to you.

2 MR. FREEZE: Thank goodness. Quick introduction. My 3 name is Joe Freeze. I represent Albert Lea Blue River organic 4 seed, and the whole seed lineup. I've been in the seed 5 business 54 years. I have covered from anything west of 6 Michigan, Indiana and south, and that's part of my 7 responsibilities, so I've covered a lot of territory.

8 I've been in organics 15 years of the 54 years I've 9 been in the seed business. And the things that I want to 10 express concerns about are the imports, organic seed. 11 Basically speaking, organics makes up one, one and a half 12 percent of the total acres in the United States. Currently 70 13 percent of the soybeans and probably 30 percent of the corn is 14 imported.

We have the acres and the people that can do the job, but we're allowing imports coming in there that do not have the requirements of control, paperwork, and everything else that the American organic farmer has to put up with, and basically speaking, this kind of situation creates major issues.

Last year at one time soybeans were \$35 and now they're around 20. Corn was around 10 and a half, and now it's down to six and a half. These inconsistencies are not helpful with stabilizing any kind of industry, and it has put the organic farmer under a great deal of challenges.

25

1

And the other thing that I want to venture into is

the organic seed rule. I've been in this business 15 years,,
 and I keep hearing that they want to strive towards organic
 seed only. I still see no real major efforts on that part.

The organic seed industry, as far as row crops are concerned, we're quite capable of producing enough organic seed for the seed needed. But we're basically allowing almost 40 percent of the seed needs being covered by conventional non-GMO, and that's usually by bigger seed companies.

9 The investment of growing organic seed organically is 10 higher. The yields are probably somewhat less. As far as the 11 seed production is concerned, there's lots of challenges, but 12 we've got to compete and have competed with our competition --13 the non-CMO side, -- for years.

So we have the ability. All we have to do would be have a year or two to gear up to do that, as far as row crops are concerned. I can't necessarily speak for the vegetable side of the organic world, but I suspect that in a lot of cases this will be possible.

As far as certifiers are concerned, I don't think they fully understand the seed industry all that well. And basically speaking, they get paid by the acres. The larger the farmer, the more he's likely going to have an influence of what the certifiers allow and don't allow. And those are my three main points.

25

CHAIR SMITH: Thanks for your comments. Joe, it

looks like you have a couple questions. Wood, please go ahead.
 BOARD MEMBER TURNER: Hey, Joe. Thanks for your
 comments, and thanks for all the work you've been doing in
 seed.

I was curious, can you say a few more words about -you talked about the cost barriers for more producers in the U.S. being involved in the seed production. Can you just say a few more things about that? I'm just trying to get my head around sort of the key barriers, why there's not more seed.

Or maybe there is enough seed production, to your point, and so we shouldn't be opening the door to international production, but I'm just trying to get my head around that dynamic a little better. If you could just say why domestic seed producers maybe are not getting into the business.

Well, you know, you're talking 15 MR. FREEZE: Yes. 16 about, like I said, one, one and a half percent of the total As far as the seed production end of it is concerned, 17 acres. both inbreds -- as far as corn is concerned -- both inbreds 18 19 have to come in non-GMO, and basically speaking that creates 20 issues for the genetic developers in that they're trying to 21 develop traits into most of their newer genetics.

Basically speaking, it's more difficult to raise seed organically. It requires just more of an investment. And the thing is, the industry is capable of producing enough organic seed if the rule were put that all of the row crops and

1 probably a lot of the other crops had to be certified organic, 2 but you need a year or two heads up. Allison, please qo ahead. 3 CHAIR SMITH: 4 BOARD MEMBER JOHNSON: I think Kim was before me, 5 but --Yep, she wants you to go first. 6 CHAIR SMITH: 7 BOARD MEMBER JOHNSON: Okay. Thank you. 8 Thank you for your comments, Joe. This is an area 9 that I've been learning a lot about lately. And I think you 10 said something that's surprising, and I want to make sure I 11 heard you right. 12 Did you say you're supplying 40 percent of the conventional seed market? Or if I didn't get that right, could 13 14 you speak to -- so organic producers are one of your markets. Are there other producers buying untreated organic corn and soy 15 16 And if not, are there things you think we could do to seed? 17 sort of grow your market opportunities to help incentivize 18 production? 19 Well, yeah. Basically speaking, MR. FREEZE: 20 companies like Pioneer and LG will produce -- and they cover 21 about 40 percent of the total organic corn market seed-wise. 22 And simply, it's hard for smaller companies to try to pursue 23 only the organic route as far as supplying organic farmers. 24 It's a challenge, and initially when this first 25 started, yeah, probably the seed industry couldn't produce

1 enough organic seed. But a number of companies have gotten 2 involved with it, and they're capable of producing the seed 3 needed to be certified organic. 4 Okay. Great. Thank you for BOARD MEMBER JOHNSON: 5 clarifying. 6 MR. FREEZE: Mm-hmm. 7 CHAIR SMITH: Okay. And you've got one more question 8 here. 9 Kim, please go ahead. 10 BOARD MEMBER HUSEMAN: Thank you, Kyla. And thank you for your comments. 11 We really appreciate you joining us, Joe, and giving your perspective 12 13 from the seed aspect. 14 Outside of price, can you tell us what are other barriers for farmers to grow organic beans in the U.S.? 15 16 MR. FREEEZE: Well, the barriers basically is that 17 the price stability is so important, and there are challenges of somewhat less yield and the weed control issues that are 18 19 involved. And, quite frankly, the soybean prices the past 20 couple of years have varied anywhere from 20 to 35 and then back down to 20 again. And, like I said, farmers need 21 22 stability, and you cannot develop any kind of program and try 23 to maintain it if you have that kind of price instability. 24 BOARD MEMBER HUSEMAN: I understand the price 25 dynamic, but are there challenges throughout the growing cycle

that, you know, you talked about 30 percent of the demand is grown in the U.S., or 70 percent is imported to satisfy demand. I'm trying to -- and let's set price aside -- We understand the dynamic of the pricing model. But are there other grow challenges that kind of disincentivize a farmer from wanting to grow beans in the U.S.?

7 MR. FREEZE: Well, basically it's a matter of, you 8 know, the weed control is one of the biggest challenges. If he 9 can control his wheat, then he can have yields of 40 to 70 10 bushels TO the acre. That's not so much genetics or anything It's just with soybeans particularly it's weed 11 like that. 12 control and, basically speaking, there's some reluctance to try to pursue this simply because they want to look good with their 13 14 neighbors. And the incentives for growing soybeans 15 organically, like I said, there's no stability to it.

16 BOARD MEMBER HUSEMAN: Okay. Thank you, Joe. That's 17 helpful. I'm just trying to find other ways. I know the markets are volatile in all spectrums, and looking at ways that 18 19 we can try to help encourage the U.S. farmer to grow some more 20 organic beans. So I appreciate your time. Thank you.

21 MR. FREEZE: Yeah, well, it's the problem of cheap 22 imports. That's the problem.

23 CHAIR SMITH: Thanks for joining us today, Joe, and24 glad we got you off mute.

25

Okay. Up next we have Peter Gunther, then Tracey

1 Dion, and then Joseph Kibowatt.

2 Do we have Peter?

9

MS. ARSENAULT: Peter's on the line. We're just getting him unmuted here. Peter, it looks like you're on the phone line. So if you don't have a mute button, you can try star six to unmute yourself.

7 MR. GUNTHER: All right. Can you guys hear me?
8 CHAIR SMITH: Yes.

MR. GUNTHER: Can you hear me?

10CHAIR SMITH: Yep, we got you, Peter. State your11name and affiliation, and then you can get started.

MR. GUNTHER: All righty. My name is Peter Gunther, and I'm an organic farmer in Texas, and I raise peanuts, corn, wheat, and various hay. I've been certified organic since 2013, and organic has been a game changer for my operation, and I'm very grateful for all the work that the NOSB does to promote integrity.

A big issue facing organic farmers right now is unfair competition coming in from imports. I'm impressed that the Certification Subcommittee has heard this problem loud and clear, and want to express my support for using testing as a tool to make sure that imports that are coming over the border are actually legitimate.

24 The other thing I'd like to comment about is growing 25 the organic market. There's a great amount of energy and

1 resources being put into transitioning organic farmers to 2 organic, but it's going to be a tough sell if the market isn't 3 there when folks complete the transition. I'd like to say how 4 I support the work being done by CACS to highlight how we can 5 improve the overall organic market by understanding all of the 6 challenges. Thank you. 7 CHAIR SMITH: Thanks for your comment, Peter. Any --8 oh, got some questions here. 9 Kim, please go ahead. 10 BOARD MEMBER HUSEMAN: Hi, Peter. Thank you for your I have a couple of questions for you. 11 comments. 12 MR. GUNTHER: Okay. 13 BOARD MEMBER HUSEMAN: One is where do you farm in Texas? 14 15 MR. GUNTHER: West Texas. 16 BOARD MEMBER HUSEMAN: Okay. West Texas, east New Mexico. 17 MR. GUNTHER: BOARD MEMBER HUSEMAN: Which -- like Deaf Smith 18 19 County, Castro County? Where are you at? MR. GUNTHER: 20 Oh, it's like Cochran County, Hockley 21 County, Yoakum County, Gaines County. 22 Okay. Any of those fires BOARD MEMBER HUSEMAN: 23 impact you? 24 MR. GUNTHER: No, no. Thank God they were not 25 anywhere around me.

BOARD MEMBER HUSEMAN: No, I understand that. I'm very familiar with the West Texas farming community. So first I want to say thank you for being a West Texas organic farmer.

And the other question I have for you is when you look at talking about growing markets and outlets for your products, can you speak to where do your products go, and do you have any logistics or rail versus truck, any kind of barriers and bottlenecks in that space to help get your products where they need to go to help grow this market?

10 MR. GUNTHER: Okay. So the peanuts, they go to a local buying point, and there they get shelled and shipped off 11 12 to various buyers. So I don't have an issue with, you know, as far as trucking, we don't do anything on rail over here. 13 As far as the hay goes, corn, all that kind of stuff, that will 14 15 get sold to the local organic dairies and feed lots. So we 16 don't have an issue there with that.

We do have an issue with -- I know there's a lot of -- I know we've been getting a lot of hay imported from Mexico, and, you know, that dropped our hay market almost in half last year when that all hit over here.

As far as the peanut goes, I've been growing peanuts, like I said, for many years, and I've never seen a decrease in demand for U.S. grown peanuts, and we did this year. About two months ago, it was about the time whenever they start handing out contracts for all the local farmers, organic farmers, to, you know, kind of know how many acres they're going to get and all that. We've never been shorted on that, and this year they've cut most farmers, and not only on acres, but they also went down on price. And I'm told the reason that is is because the demand is not there.

And I don't know. I know there's a lot of peanuts being imported, and I know that we can't compete at those levels that they can bring it in at. I mean our conventional prices are about the same as other countries' organic prices coming in. That's with shipping over here and everything. So I feel like there's kind of a slowdown in that.

12 So I think the end users -- or the end buyers, I 13 should say -- is getting imports for a lot cheaper, and so 14 therefore they don't need as much organically grown peanuts 15 from the U.S, so that's really affecting our markets right now.

BOARD MEMBER HUSEMAN: Okay. Thank you, Peter. I want to highlight the diversity of farming operations and the different areas of the U.S. that we've been able to hear on the NOSB calls, and your voice and lens of the market space that you're in is very valuable. So thank you again for your time, Peter.

CHAIR SMITH: Amy, please go ahead.

22

VICE CHAIR BRUCH: Actually, Kim kind of touched on
my question. I wanted an overview of the peanut market.
Thank you, Peter, for providing that, and I agree

1 with Kim. It's wonderful to have the diversity of farmers' 2 voices on this call. Thank you so much. 3 I'll defer to Nate. BOARD MEMBER POWELL-PALM: 4 Thanks, Amy. 5 Thank you for your comments, Peter. Really 6 appreciate you make the time to join us today. I realize it's 7 a busy time of year. 8 Could you speak a little bit to when the assertion is made that American farmers are disadvantaged because somehow 9 10 there's a growing advantage in other countries, how good are we at growing peanuts? Are there other countries that can grow a 11 12 ton more than us that would result in these sort of lower 13 prices, or am I missing something there? 14 MR. GUNTHER: No. I mean it's my understanding that a lot of the peanuts that come from other countries, the 15 16 quality isn't great. And so, therefore, they try -- I think 17 what they're doing, and I don't know this, obviously I can't prove it -- but what I feel like is going on is they are, you 18 19 know, taking those peanuts from overseas, bringing them in, and 20 blending them with the American peanuts, the organic peanuts. And, of course, they're organic, too, is what they're saying. 21 22 So but there's nothing that proves that they are. 23 And so I feel like for those guys -- I mean we have 24 so many restrictions, and it takes so much more money for us to 25 grow the crop apparently than it does other countries, labor,

fuel, all things. And so I don't know -- I mean, I can't say that other countries can grow more of them. But if they're not held to the same standards as we are, then obviously they can grow them cheaper. I mean, I think they could grow them cheaper anyway, but I don't think it would be -- the difference shouldn't be that much.

7 BOARD MEMBER POWELL-PALM: Yes, I really appreciate 8 that. So it's not that there's an obvious reason they'd be 9 coming in cheaper, to make us consider are they coming in 10 legitimately. Is that correct?

MR. GUNTHER: Say it again. I didn't quite understand the question.

BOARD MEMBER POWELL-PALM: Yeah, it's not obvious that anyone can produce them cheaper. So then we would ask the question, are they coming in legitimately?

MR. GUNTHER: That is correct, because it takes so much manual labor and equipment to produce these peanuts that, you know, in other countries I'm sure their labor forces are a lot cheaper than ours are here. Obviously, they probably have cheaper equipment. There's a whole lot of things that, yes, they can do cheaper.

But I feel like we just are on a very unfair advantage, like we're not in a level playing field here. We have so many things that we have to abide by, and which is great. I mean we need that, obviously. And the reason they have that in place is because they know that if people are left
 unchecked, things go wrong.

And they don't have that in other countries. And so it's when they import it, and there's no one holding them accountable, then I just feel like why are we pushing the American farmer so hard to be legitimate when there is next to nothing being done to hold their feet to the fire or hold them accountable when it's imported into America? And so it's just very unfair for the American farmers.

10 And, I mean, it's hard enough as it is with inflation 11 and everything else. I mean all the farmers, we're talking 12 about it. So I don't know what the Board can do about that to 13 make a recommendation to get that ball rolling.

BOARD MEMBER POWELL-PALM: Well, we really appreciate hearing your voice and taking the time, and we'll keep working on these things. We really appreciate your time today.

17 MR. GUNTHER: Thank you.

18 CHAIR SMITH: Thanks, Peter.

19 Next up we have Tracey Dion, then Joseph Kibowatt,20 and then Guy Jodarski.

21 Tracey, state your name and affiliation, and then you 22 can get started.

MS. DION: Hello, NOSB. My name is Tracey Dion. My family and I converted our farm to certified organic in 2017. Coming from the conventional sugar beet world, our journey to organic farming has been one of discovery. Every day that we farm organically, we're not just helping our own businesses, but we're also having a ripple effect. All organic farmers are. From eliminating synthetic nitrogen to incorporating animals, organic is a type of farming that benefits everyone, and the consumer knows it.

7 I'm endlessly grateful for how much confidence the 8 consumer has placed in us as organic farmers. And it's all hats off to the founders who not only built this market but 9 10 pioneered the growing techniques that we have today. U.S. organic farmers have boosted their yields, and we're certainly 11 12 out-yielding our foreign competition. American organic farmers are the most efficient, highest-yielding organic producers in 13 the world, and I'll tell you, we knock the socks off of 14 15 everyone else when it comes to growing feedstuffs.

But despite being good farmers with good yields, we're facing a serious problem. Imported organic grains are being brought in well below the cost of production. And to be clear, there is no one who is out-yielding us when it comes to corn and soybeans. There's no one who has the technology potential to maximize organic production. So the only other advantage left is selling conventional grains as organic.

As American producers, we love competition. We're ready to compete, and we know we'll win. But we have to compete on a fair playing field. We have to have grain imported and sold in the U.S. as organic actually be organic.
 We have to have the same level of scrutiny on imported grains
 as we do on domestic grains.

4 I was so excited to see that NOSB is hearing and 5 amplifying farmers' concerns, especially when it comes to 6 testing. The CACS discussion document is a great start, but I 7 want to highlight one fact for you. Montana lost a major 8 export market for our wheat when Italy decided they were going to test down to the parts per billion for glyphosate, and they 9 10 found levels that are ambient in the environment. They denied import of that wheat into their country and sent it back to us. 11

12 It astounds me that not only is Europe testing 13 everything we send them, but we are hardly testing anything at 14 all that comes into the U.S. I appreciate the mandatory 5 15 percent testing, but we can do so much better. American 16 organic farmers need the system to do better. We need a fair 17 playing field, and testing imported grain is a great start. 18 Thank you.

CHAIR SMITH: Thank you, Tracey. Any comment orquestions for Tracey? I see one from Nate.

BOARD MEMBER POWELL-PALM: Thanks so much for joining us today, Tracey. We realize it's a busy time of year. You said something that really, you know, I think speaks to a lot of the questions we've heard over the last couple of days, that American farmers are pretty darn good at growing what we

1 grow -- corn, hay, soybeans. Like, there's not a lot of places 2 that grow them better than us. And so I've been trying to decide, is the 3 conversation we're having over the last few days a 4 5 protectionist movement, or is it just saying we want a fair And if I hear you, it sounds like American 6 playing field? 7 farmers are ready to go to the mats, but we want it to be fair. 8 We want to have the same expectations for all organic stuff 9 moving around the world. Am I hearing you right? 10 MS. DION: You are hearing me right, yes. 11 BOARD MEMBER POWELL-PALM: I really appreciate it 12 today. Thank you for joining us. 13 MS. DION: Thank you. 14 CHAIR SMITH: Thanks, Tracey. Thanks for joining us 15 today. 16 Next up we have Joseph Kibowatt, which we're unsure 17 if you are on the line. So if you are there, if you could let 18 yourself be known. If you're on the phone, star six, put it in 19 the chat. 20 Otherwise, we'll move to Guy Jodarski. Jodarski, Did I say that right? Guy, are you there? 21 sorry. 22 MR. JODARSKI: Well, yes. Good afternoon. 23 CHAIR SMITH: Yes,. 24 MR. JODARSKI: I'm having trouble with my camera. 25 I'm sorry. I apologize for that.

CHAIR SMITH: All right. No worries. You can state
 your name and affiliation --

MR. JODARSKI: My name is --

3

4

CHAIR SMITH: -- yep, and then get going.

5 MR. JODARSKI: Yep, my name is Guy Jodarski. I 6 represent CROPP Cooperative/Organic Valley. Thank you to the 7 NOP and the Board for the chance to provide comments on behalf 8 of our cooperative.

9 I work as a veterinarian for our farmer members and 10 with cooperative staff in the area of animal health. I lead 11 our veterinary team that works with farmers, industry partners, 12 and allied academic researchers. I also serve on the Livestock 13 Advisory Panel for OMRI and help review materials and inputs 14 for use in organic livestock production.

In regard to meloxicam, Organic Valley submitted a petition to the NOP to add meloxicam to the National List. The veterinary team at Organic Valley fully supports this petition. We believe this material will provide organic producers an improved tool to reduce pain and suffering of livestock.

20 Meloxicam is a non-steroidal anti-inflammatory agent 21 less likely to cause side effects than the currently available 22 option, flunixin. Meloxicam can control pain, inflammation, 23 and fever. It is widely used in humans, animals, and non-24 organic dairy production. Its long duration of activity and 25 ease of administration support the fact that meloxicam provides pain control for livestock superior to the currently available
 options allowed for organic production.

3 Regarding sunset materials, we support relisting the 4 following materials currently being reviewed for possible 5 sunset: Atropine as an antidote for poisoning; hydrogen 6 peroxide and iodine essential for wound care, surgical 7 procedures and equipment disinfection; magnesium sulfate for 8 medical treatment; tolazoline and xylazine essential for humane delivery of surgical procedures; trace minerals and vitamins, 9 10 nutritional support for immune function and essential 11 supplementation.

We support relisting fenbendazole and moxidectin on the National List. Good management eliminates the need for parasiticides in most cases. However, when management practices fail and parasitism is severe, there is a need for synthetic treatments as natural alternatives often fail under these conditions.

In response to the questions regarding these materials, are there suggestions to improve the annotation? The annotation could outline guidelines for emergency treatment. For example, documentation of parasite load by fecal examination, evidence of severe physical signs, and/or veterinary recommendation.

24 Which age class of animals do certifiers see their 25 clients requesting approval for emergency parasiticide use? Severe clinical parasitism is seen almost exclusively in 6 to
 18-month-old cattle, an exception being lungworms which affect
 both young stock and mature cattle.

Thank you for the opportunity to provide testimony to the Board. I'm happy to answer any questions.

6 CHAIR SMITH: Thanks so much, Guy. Any questions 7 from the Board? I see one from Nate.

8 BOARD MEMBER POWELL-PALM: Thank you, Dr. Guy. 9 Appreciate your comments today. We had really good 10 conversation earlier with Dan Giacomini about animal welfare, and I don't need to extend it quite that long for my question 11 12 But I was hoping you could speak to how do we get the to you. consumer aware of all that goes into animal welfare in 13 14 organics?

15 It seems like we have some of the most incredible 16 regulations for animal welfare, but that is never a 17 consideration when we're pitching organic to consumer for 18 animal livestock products. Any thoughts there?

MR. JODARSKI: Yeah, certainly. I think the problem is the animal welfare, you know, the topic was kind of seized by conventional and organic large producers who really designed certification systems that were really advantageous to the large operations, and specifically in regards to record keeping, numbers, data, that sort of thing.

25

I think we've really failed in being able to talk

about the freedom our animals have, the pasture, how important that is, the grazing, all the benefits that not only to the cattle but to the environment, to the soil. I think all those things have been missed, and we've really gotten caught in this bureaucracy of looking at animal welfare through certification systems that are really biased towards large systems with great record keeping systems.

8 BOARD MEMBER POWELL-PALM: I appreciate that. Thank9 you for your time today.

10 MR. JODARSKI: You're welcome.

11 CHAIR SMITH: Thanks for joining us.

12 Up next we have Ty O'Connor, then Judy Osowitz, and 13 then Lance Bruch.

14 Ty, are you there?

15 MR. O'CONNOR: I am here.

16 CHAIR SMITH: Wonderful. State your name and 17 affiliation, and then you can get to it. You've got your 18 assistant there with you today, I see.

MR. O'CONNOR: Yes, we are running rampant. We're starting to get all the -- everything planted, but I'm happy to join you guys. This is an awesome meeting so far.

Ty O'Connor from Ekalaka, Montana. We are a certified organic grain, pulses, and cattle in this part of the state. We run and operate on about 53,000 acres. We do about 13,000 acres of dry land farming. We use -- the cattle are very crucial to our cropping system, so I would say we are not
 a farmer without the cattle to be involved.

3 We've grown our operation consistently over the last 4 In the last couple years, we've added a USDA 10, 12 years. 5 organic certified beef and pork and sheep slaughtering facility As far as I know, this is probably the only 6 on the ranch. 7 ranch-owned USDA organic facility across the nation. We're 8 excited to -- I've got my helper with, so he's adding a little bit. Hold on. 9

We're excited to see USDA invest in organic via the Organic Transition Initiative, and there's a lot of good work to be done, but I do have one concern. The NRCS EQIP-Organic Transition Initiative could be a great program, but it is actively not being rolled out in Montana.

For the 823 program, in Montana we were only given 30 days in December of last year to sign up for that. The requirements set out did not take into consideration the regions like Montana and like where we farm down here, that we only get 10 inches of moisture.

Now, to be clear, we are really good at growing crops organically in Montana. We have a thriving organic community, and the EQIP money would certainly help enhance the transition. But as we speak, farmers in Montana are not being given the chance to participate in the programs that are so important to the success of Organic Transition Initiative. 1 I'm hoping that the whole organic community can work 2 together to have the NRCS open the sign-up periods for the 823 3 again in all states. It would also be very helpful for the 4 NRCS to publish each state's 823 sign-up deadline. This could 5 be a great opportunity for the organic around in the country. 6 I'm hoping we don't miss the boat by not making sure the 7 farmers get a fair chance to sign up for this. Thank you for 8 your time.

9 CHAIR SMITH: Thanks so much, Ty. It looks like you 10 and your assistant have some questions from the Board, so stick 11 with us here.

12

Brian, please go ahead.

BOARD MEMBER CALDWELL: Hi, Ty. Thanks a lot for your comments. I was really intrigued to hear that your processing facility includes hogs, and I'm just curious what you see the market for organic pork to be and what you see the barriers are to having more production.

MR. O'CONNOR: I would like to tell you that we are raising organic pork, but we are not. Our pork is conventional that we are raising just because we do not want to add another wrinkle of farrowing hogs out on our facility. So we do process pork, sheep, goats, but we do not run any organic ourselves.

BOARD MEMBER CALDWELL: Okay. Thanks.
MR. O'CONNOR: It's organic beef right now, but we

would encourage any other producers that are organic certified, if they need a place to harvest those animals, we can handle that.

CHAIR SMITH: Wonderful.

4

5

Wood, please go ahead.

6 BOARD MEMBER TURNER: Hi. I appreciate the 823 7 comments, but I'm another interested person about your 8 slaughterhouse. Can you say more about -- so has that 9 dramatically improved your ability to compete, and you mind if 10 I ask, did you self-finance, or how difficult was that to get 11 built?

MR. O'CONNOR: We self-financed. I had to put a ranch up for collateral because the banks don't want anything to do with a slaughtering facility. And I guess I thought this would put us like about six steps ahead in marketing and selling our organic product, and we have found out we are probably right back where we started.

So we are working on just kind of working our way out 18 19 locally, and we are doing non-organic product from the ranch 20 also, like our cull cows things that aren't certified. And then our organic product is pretty much solely going online 21 22 right now. So that's kind of it in a nutshell. I really 23 thought that we would be able to take advantage of, you know, 24 taking a couple steps forward by eliminating some middlemen, 25 but it's extremely hard to get into these big grocery stores.

1 CHAIR SMITH: Thanks, Ty.

2 Nate, please go ahead.

BOARD MEMBER POWELL-PALM: Thanks very much for your 3 comments today, Ty. 823, as far as I see it, is an effort by 4 5 the USDA to make the transition easier, to help folks get 6 through that transition. And I worry, as you describe it, that 7 we're going to have -- because it's such a short sign-up period 8 -- on paper not a lot of interest because not a lot of people 9 signed up.

From your vantage point, are there a lot of acres that were hunting for this kind of support? And if it was made available again, do you feel like that there would be a lot of people ready to sign up for 823?

14 MR. O'CONNOR: Oh, yeah, I would say there is a lot of acres that would be ready to sign up. When we looked at 15 16 this, and we started looking at the requirements, it wasn't suitable for eastern Montana, so we would have failed even if 17 we would have got signed up. But the sign-up period was so 18 19 And there's quite a few acres around our area in short. 20 eastern Montana that were interested in this program, but as soon as they started looking at the requirements, and then of 21 course they were already past the sign-up date because nobody 22 So yeah, I mean, I think it needs to be opened 23 knew about it. 24 up, and I think there would be a lot more interest in this 25 program, especially if it was made knowledgeable, and then we

1 made it more suitable for the climates in different regions. BOARD MEMBER POWELL-PALM: 2 Absolutely, yes. Thank you so much for that. We've heard a lot of farmers bring this 3 4 up as a concern, and so we're going to work to elevate it. 5 CHAIR SMITH: Thanks so much for joining us and 6 speaking comments to, yeah, your production, and we'll let you 7 get back to your day, and thanks to your assistant as well. 8 MR. O'CONNOR: Thank you, guys. Thanks, Tv. 9 BOARD MEMBER POWELL-PALM: 10 CHAIR SMITH: Okay. Up next we have Judy Osowitz, and then Lance Bruch, and then Charlotte Vallaeys. 11 12 Judy, are you there? I don't know if we have Judy. 13 I feel like we weren't finding her. 14 MS. ARSENAULT: We didn't find Judy, but there was a bunch of people on the phone only. 15 16 Judy, if you're one of the phone-only people, you can 17 hit unmute if you have an unmute button, or star six to unmute 18 yourself. 19 CHAIR SMITH: Okay. We'll move to Lance Bruch, and 20 then after Lance actually will be Steve Boyda, and then Mark 21 Smith, and then we'll take a break. 22 Lance, are you there? 23 MR. BRUCH: I am. Can you guys hear me? 24 CHAIR SMITH: I sure can. State your name and 25 affiliation, and then you can get started.

1 MR. BRUCH: Sure, you bet. Thanks for having me. Lance Bruch, and I'm in Northwest Iowa around Emmitsburg, kind 2 3 of a unique area for organics because there's a ton of organics 4 Really good area, good crops are growing. around here. It's 5 So all of that helps with efficiencies, and qood ground. 6 there's always somebody to lean on and ask questions and things 7 like that.

8 So all of that being said, you know, my biggest challenge would be -- as a lot of these other guys are saying 9 10 -- is the pricing. Last year we were selling beans for \$35, \$40 almost, and now they're half almost, and corn's the same. 11 12 And we always just want to make sure that the stuff that's coming in from foreign stuff is getting tested and it will get 13 like it's supposed to be, like they say it is, whether it 14 15 really is or not.

You know, I haul a load of corn to the elevator.
Every single load gets tested before I can dump it. So they
probe it, they run their tests on it. It takes ten minutes.
You sit there, they radio you out, and they dump it all.

If we're testing every load of corn and every load of beans from every farmer out here, you know, we probably need to do a better job with maybe some of the testing of the foreign stuff. Like same thing as some of these other guys have said. We're all kind of probably on the same page. When the prices change drastically as they have in the last year, you kind of 1 figure you know all what's going on.

2	So that would be something that, you know, we're in a				
3	good area. We can really produce good crops, and we have the				
4	efficiency to do that, and we have enough crop around in				
5	organic that markets are fairly close, so none of that poses				
6	much of a challenge. But, you know, we want to do it and be				
7	profitable at it or else it gets kind of futile. And as Joe				
8	from Albert Lea said before, raising soybeans at 20 bucks is a				
9	real challenge because trying to keep them clean is a barrier,				
10	and then you have to sell them for that price, at the end of				
11	the day it really doesn't work out very well.				
12	So that's mostly all I had. I just wanted to you				
13	made a comment, some of the other guys, about some of the				
14	foreign stuff and make sure we're testing if we need to to try				
15	and make sure that that stuff is what it's supposed to be when				
16	it's coming in.				
17	CHAIR SMITH: Thanks so much, Lance. It looks like				
18	we have a question here from Kim.				
19	Kim, please go ahead.				
20	VICE CHAIR BRUCH: Hi Lance. Thank you for your				
21	time. I know it's hard for farmers to be engaged this time of				
22	year, and I really appreciate you taking the time to meet with				
23	us today.				
24	MR. BRUCH: You bet.				
25	VICE CHAIR BRUCH: I have a couple of questions. My				

1 first one is do most of your row crops go to food or feed 2 outlets, and have you seen any change in the dynamic of the 3 outlets that you have for your crops?

MR. BRUCH: Most of mine are feed. There is neighbors doing some food, food-grade corn and things like that. I don't just because it takes a little bit more management from drying and stuff like that. That's got to be a little bit closer watched, and so I have not done it.

So I just -- So most of mine, 90 percent of it I 9 10 think around here probably goes to just feed stuff. So yeah, I mean there is a better price there I 11 dynamic-wise, no. 12 suppose, I think, from what I hear and stuff out of it, but takes a little harder to get there. And, you know, obviously 13 14 if you did it and it didn't make food stacks it would go to feed, which would be okay too, but, you know, you've got to 15 16 have a little bit better quality corn, higher test weight, and So that's why I don't. 17 dry it slower and stuff like that.

18 VICE CHAIR BRUCH: Okay. And then you mentioned that 19 you haul your crops to an elevator. So it sounds like you have 20 somewhat of a local outlet, and you truck your products 21 directly. Is that correct?

MR. BRUCH: Correct, yeah. Since there's enough acres around here and enough of a big enough organic area, the market is -- that's really helped kind of find some more markets. So most of my corn goes 30 miles, which is pretty good, and beans are maybe 50, and there are several elevators.
And then, you know, if you want to have the stuff picked up,
that's always an option. There's people doing that all the
time too.

5 So logistically-wise we're in really good shape, and 6 we're in a good area with a lot of good producers. So you 7 know, there's always -- if you need a question, you need help, 8 there's always somebody willing to help you. So that stuff all 9 helps raise really good crops, and there's availability for a 10 lot of different things that some of these places don't have.

A lot of hogs, a lot of chickens, the litter in the dirt is readily available so it helps raise a good crop. And so when you're raising good crops, good quality crops, you know, it's nice to get a fair price for it and, you know, I'm not 100 percent sure we're getting that. So that would be my one thing that I'd like to see, just a little bit tighter security from the standpoint down the road, I guess.

18 CHAIR SMITH: Excellent. No, thank you. It's good 19 to hear, too, the demand side and having optionality to move 20 products, and what that structure looks like too. So I 21 appreciate your comments.

22MR. BRUCH: You bet. Yeah, no problem.23CHAIR SMITH: Got a couple more here, Lance.24Nate, please go ahead.

25

BOARD MEMBER POWELL-PALM: Lance, thanks so much for

joining us today. Could you tell us a little bit more about the area that you farm in? Are you sort of in an organic desert? Do you have a lot of organic neighbors?

MR. BRUCH: No, I do, yeah. From me east about --I'm in Emmitsburg -- and if you go east 25 to 30 miles, 40 miles, you know. you can drive by about as many organic farms as conventional farms. So it's a huge area, and it's growing every year. There's more and more guys and acres, and more guys just going into organic.

10 So it's a cool area that way. It kind of got started by a few guys, several in the late 90s took ground out of CRP, 11 12 went into organic, and it's just really exploded since then. So I mean, that's basically why I started. My neighbors all 13 around me were doing it, and they wanted it done if I could so 14 15 that it helps some of with contamination for them. And I said, 16 well, I'll start doing some if you help me along the way. So 17 that's basically how I got into it.

So all of that has helped all these other people, and everybody talks to everybody it seems like a lot until you know it, and you learn a lot, and it's easy to -- you got problems, it's easy to kind of help each other along. Whereas, you know, if you're out in the middle of nowhere doing it by yourself, it would be a lot more challenging.

24 BOARD MEMBER POWELL-PALM: Thank you so much for 25 that. Could you describe kind of how good are your yields? 80

1 Not to put you on the spot, but do you feel like you are 2 competitive and you're a high yielder? Can you talk a little 3 bit about your corn and bean yields?

MR. BRUCH: Yeah, I think we're in a really good spot ground-wise. I mean we've got excellent farmland and ,you know, last year my farm was probably in the 190 range. Beans were 55, something like that.

8 So we have the capabilities to raise really good 9 vields. If you keep the weeds out and get a few timely rains 10 and do it outright, you can raise really good crops because fertility is good, land is good, and you get enough manure and 11 12 stuff like that, and you've got good ground, and you get everything set right, keep them clean, you can raise pretty 13 14 good crops doing that. So we're just in a super good area with 15 really good dirt, and all of that helps raise good crops.

BOARD MEMBER POWELL-PALM: And so my last piece to this question is, it sounds like there's 100,000 plus acres in your area. It sounds like you can raise good crops. It sounds like we can raise all of the feedstuffs that we need right here in America. Would you agree with that?

21 MR. BRUCH: No, I would totally agree with that. I 22 think there's a -- I mean if the price is a little bit better, 23 then you have more guys wanting to do it also, and so then you 24 just - you would raise more crops also.

25

And I don't know -- you guys know the numbers better

1 than me of course today, but I think we could absolutely raise 2 enough here because there's enough -- just right here, like I 3 say, there probably is close to 100,000 acres not too far away 4 in a maybe three or four-county area. And so why can't we just 5 expand that and raise our own crops here instead of getting 6 them from, you know, wherever? 7 BOARD MEMBER POWELL-PALM: Thank you. 8 MR. BRUCH: Yeah, thanks, Nate. 9 Amy, please qo ahead. CHAIR SMITH: 10 VICE CHAIR BRUCH: I just don't have my hand up soon Nate took my questions, actually, because I wanted to 11 enough. just learn a little bit more about Lance's area. 12 I thought it 13 was good to highlight that it's just a unique spot for growing 14 organic. So thanks, Lance, for joining us. Thanks, Nate, for your questions, too. 15 16 Yeah, no problem. Thanks for having me MR. BRUCH: 17 on, guys. CHAIR SMITH: Yeah, thanks so much, Lance. 18 19 next up do we have Steve Boyda? And then I Okay. 20 think we don't have Mark Smith, but after Steve goes -- maybe I'll do one sweep around for anybody who we missed in this 21 22 first chunk, and then we'll take a break. 23 Steve, you can state your name and affiliation, and 24 then get started. 25 Good afternoon, and thank you to MR. BOYDA: Yes.

1 the Board for the opportunity to make any comments. My name is 2 Steve Boyda. I'm an organic field crops producer in Northeast 3 Kansas, primarily growing corn, wheat, soybeans, which are the 4 staples for this region.

5 I'm commenting today on behalf of the field crop 6 producers who comprise the collective membership of OFARM, 7 where I serve as secretary. The primary concern for our 8 membership is the devastating market impact from the continuing 9 flow of imported organic feedstuffs. Markets for the primary 10 feed grains have fallen to levels that come near and are, in 11 some cases, even below actual production costs.

As we've mentioned in our written comments, the dismal market picture is causing some certified producers to abandon their organic commitment and certainly is putting a damper on increasing acreage through new transition. While we fully embrace the concept that it is much more than just a better market, economic viability is still the driving factor in making the final transition decision.

While we applaud the many and often successful initiatives to provide for transition assistance through new and creative government programs such as greater assistance through NRCS, improvements to federal crop insurance programs to better serve organics, the long-term viability of an organic operation is still based on economic profitability.

25

We fully support efforts underway to bring more

1 extensive residue testing into the picture. However, enacting 2 significant change still has many hurdles to overcome. One 3 area that could have the more immediate impact is to more fully 4 utilize existing authority for sampling and testing. The much 5 needed and now enacted elements of the SOE have passed or have 6 paved the way for greater scrutiny. The guestion is, are we 7 fully using the surveillance authority the SOE has created?

8 Much is said about risk-based decisions about where 9 to use this authority. Obviously, with the recent increase in 10 imports from Africa, the horse has left the barn long before a 11 mass balance audit can be completed.

12 Let me put it in a farmer's terms. If it looks like something is wrong, and it smells like something is wrong, it's 13 14 time to check it out. This is accomplished by boots-on-the-15 ground examination of the source of irregularities. Obviously, 16 the NOP now has significantly increased capacity to perform on their obligation as the organic industry watchdog. 17 Added certifier scrutiny, enhanced inspector training, and 18 19 initiatives to establish mass balance audits are all plausible 20 efforts.

It does appear, however, that the actual intervention in questionable activities still remain somewhat limited. While there are some sometimes legitimate concerns for government overreach, in our humble collective opinion there is plenty of opportunity to examine areas that just simply don't add up or smell right. So what is our ask of the settings of NOSB? We believe that there is room for a greater direct interaction in the NOP process. You spend significant time on evaluating of the ingredient list. Is the evaluation of NOP process and procedures subjected in that level of scrutiny? Possibilities that NOP oversight should be higher

7 priority for the study and debate, thus more specific guidance 8 improved. And thank you for allowing the staff comments.

9 CHAIR SMITH: Yeah, thanks so much, Steve. Appreciate10 your comments. Looks like you have a question from Amy.

Amy, please go ahead.

11

12

VICE CHAIR BRUCH: Sure.

Steve, thank you for joining us. 13 Thanks for your written comments as well as the oral ones. 14 I just had a 15 general question for you. When we look at the SOE, the 16 Strengthening of Organic Enforcement rule, the final rule talks about complex supply chains, and when we are talking in our 17 organic circles, we hear that a lot -- especially in feedstuffs 18 19 -- about these international complex supply chains.

I'm just curious, on your viewpoint, why do you think there's a need for the supply chain on something with a low margin, such as grains to be complex? Why do you think that is?

24 MR. BOYDA: Well, I look at it from a producer and, 25 you know, with SOE coming in, I'm going to have to put labels 1 on all my containers that ship to verify it stays there. How 2 do you do that on a barge that's coming from Ukraine and comes 3 over and dumps a whole bunch of so-called organic wheat in the 4 Midwest?

5 It's got to -- there has to be more complexity than 6 just trusting that it loads up, it ships over, and it's all 7 okay. There's too many possibilities of greed and fraud to 8 take place in between, and I just wish that the same scrutiny 9 was imposed on imports as what we have on our domestic 10 production.

CHAIR SMITH: Thank you, Steve. Appreciate that.
 Nate, please go ahead.

BOARD MEMBER LEWIS: Do you have any suggestions for specific tests we should be doing to detect some of these potentially fraudulent loads coming in?

MR. BOYDA: I think there's new testing on perhaps spraying for pests. There's a long ways to ship from over there to get here, and I'm afraid that sometimes there's stuff being sprayed to make sure that there isn't bugs, either beforehand or during transport.

And then also for herbicide residue. You can plant non-GMO, and it'll show non-GMO, but you can put a lot of sprays on that to keep the weeds out.

24BOARD MEMBER LEWIS: Thank you very much.25CHAIR SMITH: Thanks so much for your comments,

1 Steve.

2 I think we do have Mark Smith with us. Okay. Mark, are you there? You're here. Great. State 3 4 your name and affiliation, and then you can get started. 5 Unmuted, yeah. Hold on one second. We can't hear you. 6 MR. SMITH: How about now? 7 CHAIR SMITH: We got you. 8 MR. SMITH: Okay. My name is Mark Smith. I am a 9 producer, a livestock producer with Montana Organic Producer 10 Co-op, and I just appreciate the chance to be able to give this comment, and I wanted to comment today on the importance of the 11 12 Board supporting more and better ways of educating the public 13 on what organic is and what organic isn't. 14 For years now -- and, of course, I've been certified

now I think for 17 years my wife and I -- and we continually see the confusion at the consumer level where natural was as good as organic, it's not as good as organic, what organic actually is. And so just to make a comment to encourage that we would enforce this and -- would not enforce but would support this education program on what organic is.

And I had an example I wanted to show everybody. Even organic producers seem to be a little confused. And I brought a prop here. This is organic sour cream, and I'm just covering the brand name. And that's good. That's organic sour cream. But this particular producer then seems that he wants 1 to be able to say it's beyond organic right on the same 2 container.

And that's the kind of thing that an educated public -- this person that's making the sour cream, they wouldn't feel compelled to say beyond organic. If there was a substantial understanding of what organic is, it's the amount of regulation, the amount of rules, the elimination of all the toxins, poisons, all the things you know that you guys govern and that we're subject to.

I just would like to point this out because I think that there's a substantial amount of confusion in the marketplace, and so a thorough and robust program of educating consumers of what organic is and what it isn't.

I run into it all the time when I'm selling beef. 14 You know, well, what makes you different? Well, there's tons 15 16 and tons of things, and I can point out the things that these people that say, well, I'm as good as organic do. 17 For example, the mineral they feed. For example, how are they doing their 18 19 weeds? Those kinds of things destroy that I'm as good as 20 organic.

But if consumers actually knew what it meant, it wouldn't be such an issue. So please support a better, more robust, thorough marketing campaign to educate people better. Thanks.

25

CHAIR SMITH: Thanks for your comments, Mark. It

1 looks like you have a question from Jerry. 2 Jerry, please go ahead. Yeah, Mark. Thanks a lot. BOARD MEMBER D'AMORE: We have 3 4 an internal rule here that we're not supposed to comment to 5 commenters, but I'm going to break it, and thank you very much 6 for those comments. That's all I --7 MR. SMITH: Thank you. 8 BOARD MEMBER D'AMORE: Yes, sir. 9 CHAIR SMITH: Go ahead, Dilip. 10 BOARD MEMBER NANDWANI: Mark, thanks for your I wanted to just share, and that my question is, as 11 comments. you know that a lot of land grant universities and institutions 12 around the U.S., they are offering a lot of courses, and 13 14 extension also conducting a lot of workshops and educating organic, transitional, and all other stakeholders through 15 16 various forms of, you know, to convey the message what is organic, or tell the difference and educate them. 17 18 My quick question is that any thoughts you have what 19 other forms than -- traditionally what they are doing or what 20 we are doing in education is teaching courses, the workshops, the media, the videos, the fact sheets, and lots of other 21 22 There is information out there. Any thoughts you have forms. 23 other than all of these conventional ways what we are educating 24 so that, you know, we can keep in mind? Thank you. 25 Well, I'm not trying to say that there's MR. SMITH:

1 an absolute failure by no means. In fact, being here in 2 Montana, Montana State University over here in Bozeman, it's 3 got a whole four-year degree on this subject matter, and they 4 have a robust, robust thing.

5 So we're working from the ground up in that way. And 6 the programs that you mentioned are helpful. I would just urge 7 that perhaps we could double the effort, double the amount that 8 is out there because, you know, I just run into it. I've run 9 into it all my organic career, which is pretty substantially 10 long.

BOARD MEMBER NANDWANI: Totally I agree with your thoughts because many pockets in the U.S., especially in the rural areas where these programs are not able to reach, definitely there is a -- you know, more kind of education is needed, what is organic versus non-organic. So thank you for your comment again. I appreciate it.

17 MR. SMITH: Yeah. And, you know, it's generally, the general population as a whole. We have a thing here in 18 19 Billings, Montana, they have a home show, and we pioneered --20 actually brought our meat in there 18 years ago, was the first 21 meat producer to actually offer at the home show our product. 22 It was pretty effective. But since then, it seems like that there's still been this cloud of confusion that comes in over 23 24 why is natural not just as good as organic, I guess. So thank 25 you very much.

1 BOARD MEMBER NANDWANI: Thank you. 2 CHAIR SMITH: Nate, please go ahead. BOARD MEMBER POWELL-PALM: Thank you so much, Mark. 3 4 I just really want to highlight that I want to see more props 5 because that was absolutely fantastic to be seeing sort of the 6 messaging that's out there in the world. That's just great. 7 When you're thinking of talking to your consumers, 8 what are those main hooks that -- once you get that 9 conversation going, once you explain what organic is -- what do 10 you see as being the thing that excites them the most about 11 organic? 12 I really believe that it's probably MR. SMITH: twofold, mostly. I think clean, free of all pesticides, 13 14 herbicides, parasiticides, fungicides, all the "ides," all the 15 poison, right? It's clean. 16 And then secondly, hormones, right? Because many, many of my customers have children, and they're concerned about 17 this ridiculous 7, 8, 9, 10-year-old onset of puberty. And 18 19 I've watched over the last 18 years, I've seen, you know, 20 children grow up from very young to adults, and it's very 21 satisfying to see them year after year. So those two things, 22 clean and hormones, right? 23 BOARD MEMBER POWELL-PALM: That may be the campaign 24 right there. 25 MR. SMITH: I mentioned before, I mean because those

1 natural guys can say it's just as good as organic, but they 2 happen to slip the old growth hormone in as a calf, right? All 3 those kinds of things. Just as good as natural, but their 4 mineral supplement is made with the -- what I want to say, the 5 residue from sugar beet factories, and they put it in as a base to make it sweet for the cows. Well, sugar beet factory's GMO 6 7 sugar beets, and it's the base. Or they have no explanation 8 for how they treat their weeds other than to spray them. So 9 clean and hormone really is really the big two, I would say.

10BOARD MEMBER POWELL-PALM:Really appreciate you11giving comments today.Thank you.

12	CHAIR SMITH: 3	erry, you g	got another	one?
13	BOARD MEMBER D	AMORE: Plea	ase, if you	don't mind.
14	CHAIR SMITH: C	o ahead.		

BOARD MEMBER D'AMORE: Mark, I'd like to take you back to your presentation, and remind us all that what you did was not show us a confused consumer. You showed us a producer confusing consumers.

And I would suggest to this panel that that's the first step is cleaning up our own house, having all of us in this greater organic community speak with the same perspective and the same voice if possible, and then I think the consumer will fall in line when they hear a consistent message from all of us. Thank you.

25

MR. SMITH: Yeah, I think the only thing that is on

this beyond organic is that his cows he says are all grass-fed, and that would be the only thing that might be considered beyond organic. But, gee, I'm an organic 100 percent grass-fed farmer too, but I don't need to be able to say I'm beyond organic anyway because it's all there. The program's all there, and I appreciate that.

CHAIR SMITH: Go ahead, Franklin.

7

8 BOARD MEMBER QUARCOO: I just have a quick comment 9 about these different terminologies. I did receive a call 10 about a week -- or a little bit more than a week ago, and the 11 person said I just want to know the relationship between 12 sustainable agriculture, organic, regenerative, and climate 13 smart. It was an interesting discussion. So it's like the 14 person was asking how are these related?

So it looks like we have to get our terminologies straight and let people know what is what because there seems to be confusion on all sides. That's all I wanted to say.

MR. SMITH: Wow, Franklin, that's fantastic, because 18 19 organic is sustainable. We invented sustainable, and now it's 20 starting to be drafted just like they went with natural years 21 and years and years ago is just as good. But, good heavens, we 22 have to monitor and treat our ecosystems and do everything we 23 can think of possible to make sure that we're being 24 responsible, sustainable. You put the adjective on it, and 25 we're doing it, and the organic program's doing that. So qoing back to a thorough and redoubled effort of what organic is
 would be very much appreciated.

CHAIR SMITH: Okay. Wonderful. I also have a quick 3 question for you. Mark, are you aware that the National 4 5 Organic Program recently launched a toolkit aimed specifically 6 for consumers and retailers. And Franklin, who was just up 7 there, and Nate, their backgrounds are part of the toolkit but 8 there's lots of other things in there. So were you aware that 9 they launched sort of an education campaign that's available? 10 MR. SMITH: You know, I just have to be honest,

11 because I can't do anything else. I saw it attached to an 12 email. I didn't open it.

CHAIR SMITH: Okay. Great.

13

MR. SMITH: So I was aware. I was aware of it, but I didn't open it.

16 CHAIR SMITH: I know. Good. Well, I'm going to drop 17 a link in the chat for everybody, and spread the word because, 18 you know, I don't how many -- we have 112 people on the call. 19 So tell a friend to tell a friend, and then, you know, it's 20 going to spread like wildfire, hopefully.

21 MR. SMITH: See, that -- hearing that, that sparked 22 me just now. I can get that in the hands of every one of my 23 80-some beef customers to help them to tell their friends. And 24 if that toolkit -- and I'm sure it is, I haven't reviewed it --25 but my beef customers like to share. I give them an incentive

1 if they refer a customer too. If they sell a whole cow for me, 2 I give them a \$400 credit. So I do meaningful amounts, and 3 they do meaningful amounts for me. But the point is, is that that toolkit could be really handy, so thank you, Kyla. 4 5 CHAIR SMITH: Yep, you bet. I dropped a link in the 6 chat. So yes, appreciate you spreading the word. I'm just 7 going to do a quick --8 Thanks so much for your time, Mark. 9 I'm going to do a guick circle back around just to 10 make sure we don't have anybody from the morning. Then we're going to take a 15-minute break. We're behind. 11 I'm not 12 exactly sure how far behind we are. I'm going to try to do some quick math in my head. But do we have John Rosenow? 13 14 (No response.) 15 CHAIR SMITH: Joseph Kibowatt? 16 (No response.) CHAIR SMITH: 17 Judy Osowitz? 18 (No response.) 19 It is 1:20 on my time. So we're going to come Okay. 20 back at 35, which means we're 30 minutes behind. So we'll be 21 back at 35, and enjoy your break. Oh, and, Jared, thanks so much, or Andrea, for 22 23 putting up the slide. These are who's coming up next. Jess 24 Alger, Mark Holoubek, and Lisa Wade. 25 Okay. See you guys soon.

1 (Recessed at 1:20 p.m.; reconvened at 1:35 p.m.) 2 CHAIR SMITH: Okay. Next up we have Jess Alger, then 3 Mark Holoubek, then Lisa Wade 4 Do we have Jess? MS. ARSENAULT: It looks like I am not finding Jess. 5 6 And it indicates Andrea signed him up. 7 CHAIR SMITH: Jess, if you're on the phone, you may 8 need to try star six to unmute yourself. I don't believe Jess is here. 9 MS. HOLM: 10 CHAIR SMITH: Okay. Thanks, Andrea. Mark Holoubek, are you with us? 11 12 MR. HOLOUBEK: All right. Mark's here. 13 CHAIR SMITH: Wonderful. State your name and 14 affiliation, and then you can get --MR. HOLOUBEK: Mark Holoubek. I live in Butler 15 16 County, Nebraska, west of David City. I am a farmer, I'm a 17 certified crop advisor, a seed salesman, and a cow-calf 18 producer. 19 My comments basically center around the fact that the 20 row crop organic producers that I work with in the Midwest and 21 High Plains are under duress. I sell organic and non-GMO seed 22 in eight states, from New Mexico, Texas, up to South Dakota, as far east as Illinois, west to Colorado. 23 24 Interestingly enough, this year I've actually lost 25 growers in three of those states. In fact, I just got off the

phone with a customer that testified on Tuesday on this program, and he just canceled on the typical units of organic seed. I had three growers cancel last Thursday on the same day, and I talked to my grower in New Mexico today, and he lost his silage contract to his organic dairy just last week as well. So to put it in a nutshell, things are tough.

I grew up in the -- before any of you were probably born -- I went to college when things were good, and it was not 2012, it was 1977, and started farming in the 80s. And so are things that bad? No. Are they tough? Yes. I think if we can make them better through policy change, that's awesome.

I've listened to a bunch of your speakers and agree.
A level playing field is what we're after, and I certainly as a perspective as a supplier of organic seed would share that.

15 So my perspective is a little different. I can say 16 that the growers that I work with who are organic growers are 17 some of the very best growers that I work with. 30 percent of my sales are organic and non-GMO. In fact, I was an organic 18 19 grower a year ago, and I did something unique. I no-tilled 20 soybeans, it worked, but with the drought and the pricing, I sprayed the field around it. I'm not one of you anymore as far 21 22 as a grower.

My background, just to give you perspective, is I was actually an executive director of the Nebraska Soybean Board in 1996, and so I want to say thank you to all of you. I know how 1 much time it takes to serve on the Board, and I appreciate the 2 efforts, what you're doing for your fellow growers. So thank 3 you for that.

4 I actually worked with Pioneer in a satellite mapping 5 business with Boeing Aerospace as well, and a dot-com with John Deere in the late 90s, and the dot-com thing blew all those up, 6 7 so I got into the seed business. I've been there for 20 years. 8 And I can tell you that it's fun to work with organic people. We have all kinds of seed available because the sales are less 9 10 this year. You know, it's a great business, and I applaud you 11 for your efforts to try to support that industry. That's all I 12 have.

13 CHAIR SMITH: Thanks so much, Mark, and it looks like14 you have a question here from Kim.

15

Kim, please go ahead.

BOARD MEMBER HUSEMAN: Hi, Mark. Thank you for yourcomments and your perspective. It's really appreciated.

My comments or question to you centers around your outlets and the demand side for organic products, and what you're hearing from the people that you supply seed for and just your knowledge just as a producer as well. Have you seen any changes in the people that you're selling to or the demand side of the market?

24 MR. HOLOUBEK: In a general sense, my guys are having 25 trouble getting paid, and they're having trouble paying for 1 their seed because they're not getting paid. I mean I've got 2 guys that are carrying organic dairies for months at a time, 3 taking contractual payments. You know, they haven't gone to 4 court yet but there's been issues. Of course, on the warehouse 5 side for the grain, we've had some people go out of business in 6 this part of the country. We have some people who are very 7 reputable. We're finding that it's just tougher to get paid. 8 Business is slow.

Like I said, having survived the crash of the 80s, 9 10 which none of you can appreciate, it's not that bad. In fact, the bank in Davis City was the first one to fail in Nebraska in 11 12 219 people went out of business that day, and only 141 1985. ever farmed again. Not that bad, but I think it's probably 13 14 closer than people want to realize. Things are going to be 15 tough this year. I think people are going to come up real 16 short.

17 BOARD MEMBER HUSEMAN: Thanks, Mark. 18 CHAIR SMITH: Amy, please go ahead. 19 VICE CHAIR BRUCH: Sure. Mark, thank you for joining 20 us today. I wish better news is ahead for you. I apologize 21 for what you're going through. That's really a sad situation. I wanted to just jump into a new line item. 22 You mentioned about organic seed, and you have tons available 23 24 still. Can you talk about the viability and performance of 25 It's something that you've sold for quite a organic seed?

while, and just yield capacity and capability, I'd love to hear more about that from your perspective.

MR. HOLOUBEK: Yeah, I won't take too much time. Bottom line is it's about the genetics. Our company is based in Eastern Nebraska, and we are unique because we're licensed with every supplier of elite seed in the world. And so we've also developed our own proprietary line, and we're able to combine genetics and make a product that has actually worked, bred for this High Plains area.

And so to answer your question in a nutshell, I've got organic producers growing 212 and 214 field-average fields of organic corn using our genetics. So elite genetics and allowing -- we've been very aggressive to get elite genetics without the traits in them, and so that's given us a neat opportunity. It's partly why I have customers in so many states, not as many as I used to, but we're hanging in there.

17 So the genetic side is there if people want to work 18 with it. Our soybeans as well. We've got non-GMO and organic 19 soybeans that are really up to snuff, and they compete with 20 elite genetics.

VICE CHAIR BRUCH: Thank you, Mark.

21

22 CHAIR SMITH: Thanks so much for being with us today,23 Mark.

24 MR. HOLOUBEK: Oh, my pleasure. Continue to do what 25 you do. I appreciate it. CHAIR SMITH: Thanks.

1

7

2 Okay. Up next is Lisa Wade. I'm not sure if we have 3 Lisa on the line with us. Lisa, if you are there and you're on 4 the phone, you can try star six.

5 Otherwise, we'll move to Lynn Clarkson. After Lynn,
6 it's John Shepard. After John is Marni Karlin.

MR. CLARKSON: Okay. Can you hear me?

8 CHAIR SMITH: I sure can. State your name and9 affiliation, and then you can get started.

10 MR. CLARKSON: Thank you. My name is Lynn Clarkson. I'm here today as the CEO of Clarkson Grain Company. 11 We're 12 based in Illinois, been certified since the 1990s. We buy, condition, and process organic corn and soy for making organic 13 14 foods and ingredients. We serve clients, domestic and foreign. 15 We have the pleasure of seeing our organic ingredients in 16 grocery stores throughout the U.S.

We used to import crops to supplement domestic supply. Today we don't. Why not? Testing for residues, we find pesticides not legal in the United States, not legal anywhere but Brazil, and not legal anywhere in the world. With U.S. crushers now handling mostly foreign soy beans, it has become difficult for us to find clean, pesticide-free oil domestically.

24 My confidence in the integrity of U.S.-grown crops is 25 90 percent. For imported crops, less than 50 percent. We have purchased from Argentina, Brazil, Uruguay, China, India, and
 Ukraine. We quit because we could not trust the integrity of
 our foreign supply chains. We now buy crops only from the
 United States and Canada.

5 Tutoring organic certification is easy. Proving it's 6 difficult. The U.S. government offers institutional support 7 for organic integrity. These critically include commercial 8 codes and a functioning judicial system that occasionally 9 apprehends and punishes parties guilty of fraud.

10 Most organic imports come from countries that lack 11 institutional support and seemingly lack interest in stopping 12 fraud. It's critical to punish people for cheating to 13 discourage cheating, but in the countries supplying most of our 14 organic products, I do not see fraud being punished.

15 Randy Constant is/was the poster boy for dramatic 16 domestic fraud. Only after 20 years and perhaps \$200 million 17 in fraud was he apprehended and punished. Had Randy been a foreign supplier, I think he'd still be thriving, expanding 18 19 with the thought that the worst penalty might be loss of organic certification. He would feel free of institutional 20 21 constraint, free to continue committing fraud, intimidate 22 neighbors into silence, bribe or threaten inspectors, certifiers, and authorities. Why do I think that? Because 23 24 with 30 years' experience, I know Randy's behavioral brothers 25 in those countries. They cheat without concern for punishment. 1 I recommend that we test all crops and ingredients 2 coming to the United States labeled with organic for pesticide 3 residue, flag shipments exceeding tolerances and remove them 4 from the organic chain of commerce. Two, introduce a tolerance 5 level for adventitious GMO presence. Shipments exceeding that 6 tolerance should get extra attention. Three, regard individual 7 suppliers as part of the environment in which they live. Ιf 8 their nation state shows no enthusiasm for eliminating organic 9 fraud, remove certification from suppliers from that country.

As suppliers and buyers cheat without punishment, organic fraud is getting worse, not better. As a consequence, legitimate farmers and processors lose market and go out of business. Conventional buyers provide conventional stuff, putting behind organic certificates. The pain is real. Thank you.

16 CHAIR SMITH: Thanks for your comments, Lynn. 17 And it looks like you have a question from Nate. BOARD MEMBER POWELL-PALM: Lynn, I just wanted to say 18 19 thank you so much for your comments. We hear a lot from 20 farmers expressing this concern about the legitimacy of 21 imported organic feedstuffs, and it is rare to hear a business 22 like yours making that step to say you're going to support 23 American organic farmers and integrity at the same time by 24 focusing your supply chain on domestic opportunities. So thank 25 you so much.

When you think about the ability of American farmers to meet the needs of your demand, do you think we can do it? Can we grow enough feedstuffs here to meet the needs of our animal industry and our milling industries?

5 MR. CLARKSON: Absolutely, no question. U.S. 6 producers can easily meet it, if not overwhelm it, and I would 7 love to see that happen. The transition phase puts a lot of 8 people off. If there were a transition program for organic, it 9 would be easier to attract new people.

10 In the comments you heard earlier today about the bouncing around, the inconsistency in prices, the comments on 11 12 the range of prices have been somewhat wrong, but in general they're right on the money. Soybean prices were \$20 and went 13 above \$50 for about a month and a half and then dropped back 14 15 down today to \$18 to \$20. It is really hard for a farmer to plan his budget and make his investments without knowing what a 16 17 reliable range of prices would be. And we're talking a 200 percent variation in price. That's extraordinarily difficult. 18

19 Yields, we see farmers with organic corn yields above 20 200 bushels an acre on a regular basis. I'm not saying that's 21 I'm saying that's what you find in some places. average. We 22 see organic farmers with 60 bushel an acre soybean yields, so I 23 think the average for our country is probably just under 40. 24 But we have such a tremendous range of productive power in the 25 United States and so many natural advantages. There's no

1 question that the answer to your question to me is, yes, we 2 can. BOARD MEMBER POWELL-PALM: Really appreciate that. 3 4 Thank you so much. 5 MR. CLARKSON: You're welcome. 6 CHAIR SMITH: Kim, please qo ahead. 7 BOARD MEMBER HUSEMAN: Thank you, Lynn, for your 8 comments today. It's really, as Nate pointed out, important to 9 hear your lens in the market space. 10 I want to focus a little bit about the logistical 11 infrastructure in the organic product movement. Can you weigh in on your thoughts about moving organic grains within the 12 13 U.S., and if you see any constraints with that today? 14 MR. CLARKSON: Sure. There are some structural 15 issues here. One is most of the grain is raised between the 16 Alleghenies and the Rockies, and most of our population lives outside, on the east of the Alleghenies and west of the 17 Rockies. 18 19 The cost of moving material by land from the Midwest 20 to the coasts is almost identical to the cost of moving by water from Ukraine, Turkey, Nigeria, Togo, to the United 21 22 So there is a difficulty in matching the logistics States. 23 costs that others have once they get to water. 24 Unfortunately, we're a country with tremendous 25 coastlines that we don't use very well to serve ourself. So

1 rail would be helpful, but very few facilities are set up to 2 use rail, and so most farmers are tied into having to use trucks, and the cost of truck transportation from the Midwest 3 4 to the West is dramatic and very high. 5 BOARD MEMBER HUSEMAN: Thank you. I really 6 appreciate that. Being in the industry and understanding how 7 rail and truck movements tend to flow, I hear that loud and 8 So thank you very much for entertaining my question. clear. 9 MR. CLARKSON: You're very welcome. 10 CHAIR SMITH: Thanks so much for taking the time to 11 be with us today, Lynn. 12 MR. CLARKSON: Thank you, folks, for doing your jobs. 13 I appreciate it. 14 CHAIR SMITH: Okay. It looks like Lisa may be back on the line. Do we have Lisa? 15 16 So if we have her, we'll go Lisa, then John Shepherd, 17 then Marni. 18 MS. HOLM: We're watching for Lisa, but we don't see 19 her yet. 20 CHAIR SMITH: Okay. I'll keep circling back. So back to John. 21 John Shepherd, are you there? You guys are keeping 22 23 me on my toes today. Okay. State your name and affiliation, 24 and then you can get started. 25 MS. ARSENAULT: John, you are still muted. Actually,

1 John, we can't hear you. You don't show an unmuted link, so it 2 might be on your end. Nope. CHAIR SMITH: Still not. John, on your Zoom screen, 3 there's the audio-like icon on your toolbar, and there's like 4 5 the little caret. If you hit that, then the little thing will 6 pop up, and sometimes you have to switch your like microphone 7 setting. 8 (No response.) 9 CHAIR SMITH: No. Can't -- oh, you're going to try 10 to dial in on the phone? Okay. We'll come back to you. Okay. 11 Thanks so much. Sorry about that. 12 Marni, are you there, and are you ready? All righty. 13 MS. KARLIN: I am here and ready. Are you ready, 14 Kyla? 15 CHAIR SMITH: I am ready. 16 MS. KARLIN: Awesome. Thanks. Hi, I'm Marni Karlin. 17 I'm a consultant here today representing the Accredited Certifiers Association. Today I'm going to comment on 18 19 considering certifier perspectives, residue testing, and 20 comments to the open docket. First, considering certifier perspectives. 21 As my 22 colleague, Elly, noted on Tuesday, certifiers are experiencing 23 stress and fatigue as the complexity of certification 24 increases, creating continued intense pressure. ACA members 25 are fully committed to organic integrity and our role in

1 service of that integrity.

While Elly noted our commitment to building capacity, I'd like to note another important piece of this puzzle. Ensuring that any new regulatory or legislative mandates that might add to the complexity and pressure of certification are developed with the benefit of certifier's perspectives.

7 We often talk about the public-private partnership 8 and the importance of farmers in trade being at the table to 9 ensure that regulators and legislators consider the real-world 10 impact of policy change. We also need to be sure certifiers are at that table, bringing their real-world perspective. 11 12 Without the certifier voice represented from the beginning, we risk creating mandates that are not feasible or unnecessarily 13 14 place more stress and pressure on the system.

15 Of course, this is really a call-out to ourselves, 16 and it's true that we are already very ably represented here on 17 the Board and are proud of our strong partnership and working relationship with the NOP. The ACA commits to building on 18 19 these strengths in engagement with other policymakers and 20 stakeholders. Together we must think critically about moving 21 further toward a risk-based certification system that protects 22 organic integrity while being appropriate to the needs and risk 23 factors of all certified operations.

24 Residue testing. We appreciate the expertise the 25 CACS subcommittee has put into its work on residue testing. An updated testing program can help certifiers verify compliance and deter fraud. If something isn't truly organic, it should not be in the organic supply chain.

4 Such a testing program must also be feasible. 5 Particularly when certifiers are implementing the largest 6 update to the organic regulations in 20 years,, we must be 7 mindful of human capital and other resource constraints and use 8 a risk-based lens for compliance verification. Certifiers' 9 perspectives must be considered in development of any updated 10 residue testing program. We are critical to verifying compliance and best understand pressures on the system that 11 12 must be considered.

We respectfully request that discussion of this topic 13 continue in the fall to allow time for certifiers' perspectives 14 15 to be included in the risk-based approach to residue testing. 16 This would also allow the work to be informed by the sector's experience in implementing some of the new tools from SOE such 17 as supply chain traceability audits and other tools designed to 18 19 remove fraud from organic supply chains so we can see what's 20 working and where further checks may be needed to protect 21 integrity.

And finally, comments to the open docket. As you know, the short window for comments in advance of this meeting fell immediately after the SOE implementation deadline, and ACA members were understandably fully focused on SOE impacts at 1 that time. We commit to engaging with some of the important 2 topics on this meeting's agenda such as updates to the 3 template, and submitting comments to the open docket so the 4 Board can continue its important work. Thank you for your 5 service and this opportunity to comment.

6 CHAIR SMITH: Yeah. Okay. Thanks, Marni. It looks7 like we have a question from Amy.

8 VICE CHAIR BRUCH: Marni, thank you for joining us 9 and representing certifiers and their voice. I have a 10 question. You mentioned a few times risk-based system when 11 we're looking at applying residue testing, and I think that 12 that's great.

When we are looking at written comments this go around, especially from inspectors, they do talk about risk as well, and they're highlighting large vessels, imports. When we hear from our oral comments right now, we're hearing a lot of comments that the folks in the handling space are doing their own testing and seeing these residues.

How do we execute the plan to get more imports tested, one, based on a risk-based system, but two, I think the risks are there and even we're hearing mass balances for a while out of these countries, you know, what they have certified acres aren't matching their exports. How do we move the needle to get this in motion because I think risks are definitely clear and identified, and now what's the next step 1 to get this executed?

MS. KARLIN: Yeah, that's a great question. Thank you, Amy. So I think a next step is letting SOE play out a little bit. That's not the only next step, so I'm going to say more, but one piece, because I know that's not going to satisfy you, and it's not enough.

7 One piece, though, is SOE created so many new 8 enforcement tools and closed some loopholes, and we've had it in effect for five weeks, I think, at this point. And so 9 10 getting a chance to see how that works, how that closes the loopholes, how that requires additional auditing, requires 11 additional handlers and importers to be certified, brings more 12 folks into that fold of verification, I think is a critical 13 14 piece.

And I hear you, and I've heard the comments that that's not enough, right? And I appreciate that, and I speak representing the certifiers. I'm not a farmer, so I've been enjoying -- enjoying is the wrong word -- but I've been appreciating getting the input and the perspective of farmers on calls like this.

So I think there are some other steps. I think we can think creatively about what authority USDA already has to look at testing as a tool when risk is understood. I think that we can work -- certifiers and inspectors can work together to think about, okay, what can we do? Where do we see risk? Do we need to communicate with each other better certifier to certifier about risk that we're seeing, which we're going to be doing in the context of those supply chain traceability audits.

4 I think there is room for lots to be done. I think 5 that it's important to think about risk and to recognize that 6 risk may exist in imports. It may also exist in domestic, and 7 so we want to just understand what those risk factors are and 8 be testing against those risk factors, and then to understand 9 certifier pressures and workloads and how we're going to 10 feasibly do that.

I don't mean that we can't do it, but I mean we need to think seriously about how many people we have, how many testing facilities we have, all of these things, and make sure we build a system that we can actually implement. Does that help at all?

16 VICE CHAIR BRUCH: Yeah, that's helpful. Thank you. And one thing about working groups, there was some comments 17 about working groups from other members outside of the 18 19 certification body that were interested in helping to inform 20 instruction and update guidance and best practices. Is that something ACA would be open to having inspectors, members from 21 22 the private sector and industry involved in these conversations 23 as well as we're looking at best practices for residue testing? 24 MS. KARLIN: Well, I think it's not on us to tell you 25 all how you set up your working groups, but I will tell you how

Burke Court Reporting & Transcription (973) 692-0660

112

ACA sets up our working groups. So our working groups already do include a lot of those perspectives. We almost always, if not always -- I guess I can't be certain -- include inspector voices, and we have been growing our associate membership which includes other folks in the trade and other relevant stakeholders who have been involved.

So from the perspective of the ACA working groups, we are certainly open. And from the perspective of the NOSB working group, we would just love to be part of that, and you all would think about how that gets set up.

11 CHAIR SMITH: I just want to clarify that in order to 12 be on an ACA working group, you do need to be a member of ACA, 13 correct, Marni?

MS. KARLIN: That's right. Thank you. And we have an associate membership that is such that you don't have to be a certifier. You can be a stakeholder in the industry.

17 CHAIR SMITH: Kim, please go ahead.

18 MS. KARLIN: Thank you.

BOARD MEMBER HUSEMAN: Thank you, Marni, for your comments. I find them very insightful and always appreciate your lens.

My question -- and forgive my metaphor and putting you on the spot here a little bit -- but, say, SOE is the vessel and we're trying to turn it with an egg beater. Always take some time. What in your mind would be an effective amount 1 of time to start seeing the SOE implementation create change in 2 the market space we're in today?

That is a great question. And I'm going 3 MS. KARLIN: to attempt to answer it, but I'm also going to say that I'm not 4 5 the expert on this, right? I work with certifiers, but I'm not a certifier. And so when I think about the incredible efforts 6 7 that the certifiers have put in over the last year plus on 8 building systems to implement SOE, and then I think about, 9 okay, well, how does that all play out, I'm wary of putting any 10 clear time frame on it. 11 BOARD MEMBER HUSEMAN: I'm sorry to put you on the 12 It's just, yeah. spot. MS. KARLIN: No, and I appreciate -- I mean I 13 14 understand the question, and that's perhaps why I think that it's a both/and answer, right? We're going to let SOE play 15 16 out, and we're going to see what other tools we have to do other things at the same time because it is possible that to 17 really see the impact of SOE it could take some time. 18 It could 19 take a cycle of inspections. And I see Kyla nodding her head 20 as a certifier, so I think I'm on the right track here. And so that is why I think that it's not wrong --21 22 that my answer is not so let's just wait and see how SOE does,

23 we'll talk again in a few years. That's a ridiculous answer, 24 right? I think the right answer is let's let that play out. 25 Let's see what our other tools are. SOE gives certifiers a lot of tools to implement in a risk-based way, and so perhaps we need to work together to talk through what that looks like and what that should look like.

BOARD MEMBER HUSEMAN: Thank you, Marni. And if I
see you in Milwaukee, I owe you a drink.

MS. KARLIN: You don't owe me a drink. And you might see me in Milwaukee, I would love to see you, and you don't owe me a drink, it's fine.

9 BOARD MEMBER HUSEMAN: Well, I do appreciate your 10 lens, though, and I think this is a topic that just -- I 11 appreciate you giving a stab at that, too. I don't know if 12 there is an answer, but I really appreciate your lens of it so 13 much. Thanks.

MS. KARLIN: Thank you. I appreciated your metaphor.
CHAIR SMITH: Mindee, just one sec before you jump
in.

17 I agree, like at least a year for inspection cycle, and then there's also the certifier auditing cycles. And so if 18 19 certifiers are not implementing SOE in an effective manner, 20 then there will be fallout from that. And accreditation cycles 21 are all like a little bit different, but we should start to see 22 some impact, I would think, within a year's time of 23 implementation. That gives one, you know, and then 24 accreditations will be happening this year, accreditation 25 audits. So anyway, that's my hot take.

Go ahead, Mindee.

1

11

2 MS. KARLIN: And I guess, actually, Mindee, if I 3 could jump in with one more quick thing. I apologize.

In addition to what Kyla just said, you know, I think that as I understand it USDA is already -- or NOP, I should say -- is already sort of asking certifiers for information to demonstrate compliance and to demonstrate that they have systems in place, and so I think that those assessments are in progress. So I think that that year that Kyla is thinking about, the time has started. And it will take some time.

CHAIR SMITH: Mindee, please go ahead.

12 BOARD MEMBER JEFFERY: Thank you so much, Marni, and thank you to ACA and all the certifiers. As a retailer who 13 14 spent 15 years explaining organic to customers and advocating 15 for great messaging to brands, the presence of the ACA has 16 always been a really helpful tool for me to say, and there's not only certification and NOP, there's also ACA helping on 17 consistency issues. And so I have always been a fan of the 18 19 work of ACA in that it helps me convince customers and brands 20 of the great work that organic is doing when they have 21 questions.

My question for you is, when ACA does do a working group, are they often ongoing working groups? Are they specific working groups? And is there a timeframe for how long it takes ACA to work internally with your members and come back 1 with information?

2 MS. KARLIN: That's a great question, and I 3 appreciate it. And I think the answer is, it depends, and so 4 I'll flesh that out a bit.

5 You know, we do have some standing working groups that are ongoing and that sort of deal with ongoing topics. 6 7 When I think about for example my comment, I think that if we 8 could pull together some thought around the TR review template we'd work together, to me that would not be an ongoing topic, 9 10 that would be a finite let's get this done. Let's get the right minds in the room who are thinking about this, assess it, 11 12 pull together some comments and share them so that we can have 13 input in the system in the process.

14 I think, you know, we have been known to be very 15 nimble and agile and move something in as little as six weeks 16 to a couple of months. That takes a push, but I think it's So I guess when I male comments both in writing and doable. 17 orally that we'd love to have the opportunity to have that 18 19 input, I would do so in a way that respects the process that's 20 being done recognizing that there's a lot of process that's 21 behind us, and so perhaps would find ways to be agile and 22 nimble and responsive if offered that opportunity. Does that 23 answer your question?

24 BOARD MEMBER JEFFERY: Yeah, I totally appreciate all 25 the work that you guys are doing and the pressures and the

1 So just kind of curious about the ACA process, and impact. 2 thank you so much for the feedback and the work that you do. MS. KARLIN: Thank you. 3 Thanks, Marni. Thanks for being with 4 CHAIR SMITH: 5 us today. MS. KARLIN: 6 Thanks quys. 7 CHAIR SMITH: Okay. I'm aware that there are some 8 people who have rejoined. We're going to go back to John. He 9 was having some audio issues. And then for anybody who we 10 called and they were not here, I am going to wait and call them at the end of this next chunk before we take our afternoon 11 12 So that's my plan. break. 13 The scheduled break was to be at 2:20. We're running 14 a little behind. So we're going to hear from John, and then 15 next up is going to be Matt Nidlinger, and then Garth Kahl. 16 So, John, let's test your mic. 17 (Pause.) CHAIR SMITH: 18 No? 19 MS. HOLM: Hey, John, if you could share the last 20 four of your phone number to the chat, we can find you and ask 21 you to unmute. 22 (Pause.) 23 MS. ARSENAULT: Now I think he is asking you to move 24 to the next speaker. 25 Okay. Yeah, if you could put the last CHAIR SMITH:

1 four digits of your phone number in the chat, then we can, 2 yeah, ask you to unmute, and then you can do the star six. The 3 star six doesn't work until we ask you to unmute. MS. ARSENAULT: Lisa Wade also had audio issues, and 4 5 that's why, because we couldn't unmute. 6 MR. SHEPPARD: Can you hear me now? 7 CHAIR SMITH: We got you. 8 MR. SHEPPARD: Okay. Good. Thank you. And I'll get 9 started. Good afternoon. I'm John Sheppard, the Director in 10 the domestic trade association, Organic Soybean Processors of America, or OSPA. OSPA advocates for fair and free trade, 11 specifically the advancement of safe, reliable organic 12 I'm also the President of Sheppard Grain 13 livestock feed. 14 Sheppard Grain has produced organic soybean meal Enterprises. 15 for over two decades. Thank you for this opportunity to 16 address the NOSB. 17 Currently, the U.S. organic soybean market is rife 18 with fraud. In January, OSPA contracted with Agromeris to 19 accomplish a mass balance analysis of African exports of 20 organic soybean meal relative to available certified feedstock and production capabilities. The evidence is clear. 21 There is no way all the meal is born of certified organic soybeans. 22 My 23 written submission highlights this effort, and I encourage you 24 to refer to those comments.

25

I prepared two slides to describe a snapshot of

1 today's U.S. organic soybean market. This information is 2 derived from ImportInfo, the U.S. Customs import data reporting 3 subscription. In six weeks, 41,510 metric tons of organic 4 soybean meal was imported into the United States. This is an 5 annual rate of 360,000 metric tons, 70 percent of the current 6 U.S. annual demand of organic soybean meal. 60 percent was 7 imported from Turkish ports originating through the Black Sea 8 region. 35 percent came from Africa.

9 The meal is available to the U.S. market at \$70 to 10 \$90 a metric ton below the cost of producing domestic meal. 11 That equates to nearly a \$2 per bushel reduction of domestic 12 soybean value for domestic crushers to match the importer 13 pricing at the cost of production.

The next slide shows bill of lading description examples of imported organic protein. Organic soybean meal is accompanied by the description non-GMO, not treated with pesticides, which of course is innate if truly born of certified organic soybeans.

The import market currently has fraud competing against fraud for market share. Organic protein is exported prepaid, ETHC for seller's account. Organic meal is being pushed to the United States and sold on consignment. And why not? The exporting entities return U.S. dollars. The downside risk is merely selling the claimed organic meal as conventional. 1 The current U.S. organic soybean market has devolved 2 below stabilization, and immediate recovery efforts should be 3 made. OPSA supports the requirement for imported organic 4 soybean meal to be laboratory tested for solvents. This could 5 easily be implemented through the USDA and CBP. In addition, an audit of the five largest importers of organic soybean meal 6 7 from seed to meal will renew consumer confidence in imported 8 supply. Thank you.

9 CHAIR SMITH: Thanks for your comments, John, and for 10 the patience with the tech. It looks like you have a question 11 from Nate.

12

Nate, please go ahead.

BOARD MEMBER LEWIS: Thanks, John. You mentioned synthetic solvents being a potential contaminant in, quoteunquote, organic soybean meal from overseas. Do you have information on sort of industry-accepted testing methodologies for detecting those compounds that you could share with the Board?

MR. SHEPPARD: I've tested meal from my own account.
I've seen tested meal of others. And the solvent residual
testing is widely known throughout the United States
laboratories and easily accomplished.

BOARD MEMBER LEWIS: Okay. Great. Thanks. I think
what Amy and I are working on in terms of our testing
methodology update would be really helpful for certifiers to

have which specific tests at which specific types of laboratories detailed into some guidance documents so that they don't have to just go out and Google how do I do a solvent test? They have some specific guidance. So I think we're just trying to get down to the granular level there, and appreciate your expertise.

7

MR. SHEPPARD: Thank you.

8

CHAIR SMITH: Amy, please go ahead.

9 VICE CHAIR BRUCH: Yeah, John, thanks for joining us 10 today. Thanks for your commitment to integrity in the organic 11 space. Really appreciate that. You mentioned about solvents 12 as a way to detect fraud within soybean meal. Are there other 13 ways comparing conventional soybean meal versus organic soybean 14 meal for types of residue tests we could look at?

MR. SHEPPARD: A simple test is analyzing the oil content, the retained oil of organic soybean meal. Mechanical processing is not going to get below 6 percent retained oil, and if organic soybean meal is being peddled below 6 percent, then there's obviously something going on with that.

20 Solvent-extracted meal, on the other hand, could get 21 below 2 percent, 1 percent retained oil, and that's their 22 purpose is to extract all the oil from a conventional solvent-23 extracted process.

VICE CHAIR BRUCH: Thank you. And thanks forsubmitting the report to the written docket for comments.

Burke Court Reporting & Transcription (973) 692-0660

1 Really appreciate that information.

2

MR. SHEPPARD: You're welcome.

Thanks so much for your comments, John. 3 CHAIR SMITH: And sorry, I skipped Lisa Wade that was also 4 Okay. 5 having some unmute issues earlier. So we're going to go Lisa, 6 then Matt Nidlinger, then Garth Kahl. And thanks again for 7 everybody's patience and, you know, jockeying up and down the 8 list. So do we have Lisa's phone number that we can ask her to 9 unmute, and then we've got to do the star six thing, right? 10 Lisa was on, but I don't see her anymore. MS. HOLM: 5602 I think is the last 11 BOARD MEMBER POWELL-PALM: part of her phone. 12 Yeah, it looks like she dropped 13 MS. ARSENAULT: 14 I know she had a short window of time. Sorry, Kyla. again. 15 Thank you. 16 CHAIR SMITH: Okay. Back to Matt. Matt Nidlinger, 17 are you there? And then we have Garth Kahl, and then Luke 18 Giannforte. And if we get Lisa back on, we'll try to bump her 19 up. 20 So Matt, name and affiliation, and you can get 21 started. Thanks, Kyla. 22 MR. NIDLINGER: Awesome. Can 23 everybody hear me okay? Awesome. Good deal. Good afternoon. 24 My name is Matt Nidlinger. I am the organic grain manager for

25 Consolidated Grain and Barge Company.

1 CGB joined the organic market four years ago and now 2 operates 15 facilities throughout the Midwest where we procure 3 organic grain from local producers into our elevators, and then 4 we distribute out to end users by truck or rail when needed. 5 We primarily focus on the feed grade side of the business but do a little bit with food as well. Much like other commenters, 6 7 I'm here today to support the need for increased efforts in 8 fraud prevention, primarily through testing of organic grains.

So while SOE was a step in the right direction, the 9 10 next steps that I believe the NOSB should take is increasing the testing of commodities to ensure they are organic and they 11 12 have preserved that identity as they are handled through the supply chain. For us with CGB, we're testing every load of 13 14 organic grain for GMO purity before it is accepted into our facilities and into the supply chain. We've found this to be a 15 16 very cost-effective and time-efficient way to protect our I'd encourage the NOSB to increase the GMO 17 supply chain. testing standard for both domestic and imported commodities. 18 19 It's a very feasible solution to help out.

I also believe that chemical residue testing procedures should be enhanced to prevent fraud from entering the supply chain. In particular, NOP 2610, Instructions for Sampling Procedures, does not standardize testing of any specific frequency from what I can see, but rather leaves it open towards when fraud is suspected. When fraud is suspected, in my opinion, it's too late for taking samples and doing tests. I would encourage the NOSB to adapt a more stringent policy that proactively tests for chemical residues, and make those testing procedures statistically relevant as well. Areas where fraud is suspected can still be scrutinized, but don't let that be our only qualifier for a test.

8 I'd also like to point out that seed genetics and 9 chemicals are changing constantly. New genetics are on the 10 market annually, and that will continue. The NOSB will need to continue to evaluate testing protocols annually to ensure they 11 12 stay relevant. Another issue that will be coming to the forefront over the next few years will be gene-edited seed. 13 14 Currently, there is no test for gene-edited seed like there is for GMO. 15

I think these issues are very important to the sustainability of our industry. Testing and verification is critical to maintain the integrity of the label. I appreciate your time and will take any questions that you may have.

20 CHAIR SMITH: Thanks so much, Matt. Any questions
21 for Matt? It looks like yes from Kim.

Kim, please go ahead.

22

BOARD MEMBER HUSEMAN: Hi, Matt. I really appreciate
your comments and your perspective of the marketplace today.
I've asked this question to a few different folks, and I'm

going to ask you the same from your lens because I think yours is unique as well. As far as logistics and transportation in the U.S. of moving organic products from the farm to the end user, can you give me your perspective of any bottlenecks or constraints that we face today in the U.S.?

6 MR. NIDLINGER: Sure. Yeah, I appreciate the 7 question, Kim. The organic market is nowhere near as efficient 8 as the generic market today. I think part of the reason that CGB has found value in getting into the marketplace is 9 10 introducing more local facilities for producers to turn their grain into cash when they want to, and then distributing back 11 out hopefully by more efficient means of transportation too, 12 primarily on rail cars. So seven of the facilities that we 13 have certified to handle organic, seven out of the fifteen are 14 15 rail facilities. So we're primarily using rail to access the 16 east and west coast and down to Texas as well.

I've found that railroads do want additional business. Of course, it comes and goes, right, depending on what the economy is looking like. But they have been very receptive to trying to work with single car business, and we'll try to continue to grow upon that.

BOARD MEMBER HUSEMAN: Thank you. I appreciate that, and I hope that the NSFs, the UPs, and the CSXs of the world can bend there a little bit further too in this regard. MR. NIDLINGER: Absolutely. Thank you. 1 CHAIR SMITH: So many acronyms. I have a question 2 for you. You mentioned that your company does GMO testing. Do 3 you test for prohibitive pesticides or solvents that keep 4 getting mentioned here today? Do you do any testing like that?

5 MR. NIDLINGER: So CGB as a whole, we're one of the 6 largest exporters of identity-preserved grains annually, and so 7 primarily non-GMO commodities. And we will do some testing on 8 those shipments as customers require, and that would be done in 9 a lab setting.

On the organic side, we have not ventured down that path yet. I think it would be great to do, but for chemical residue testing it's not as feasible to do as GMO testing. GMO testing, you know, I can have a result at our facility within 10 minutes of the truck being sampled, whereas chemicals, we can't do that at any facility. You really have to send it off to a lab to get a true test of what's going on.

17 CHAIR SMITH: Thanks so much, Matt. Appreciate you18 being with us today.

19 Okay. We have now Garth Kahl, then Luke Giannforte,20 and then Craig Schmidt.

21 Garth, name and affiliation, and then you can get 22 started.

23 MR. KAHL: Yes. My name is Garth Kahl. I wear many 24 organic hats. I'm an organic grower stockman for 30 years, an 25 organic inspector, and a consultant with the Organic Integrity Cooperative Guild. I want to thank you for the opportunity to
 comment, and as always, thanks to the NOSB members for your
 service, and the NOP staff, especially Michelle, for your
 support.

5 You already have my written comments specifically on 6 the CACS discussion documents, residue testing for a global 7 supply chain, and organic food system capacity and constraint. 8 With respect to the former, I would draw your attention to the 9 comments made by IOA.

Most importantly, we need new testing screens, particularly for herbicizing crops and synthetic solvent residues in processed animal feed. In this vein, I particularly want to applaud Amy Bruch for her work on that market bill that will require more testing of bulk inputs. Go, Amy.

16 Mainly, I want to talk about the capacity and constraints document and to raise the alarm about the stampede 17 of organic livestock producers who are dropping certification 18 19 or leaving livestock farming altogether. As anyone who works 20 in organic certification will tell you, the last three years have seen a massive loss of organic dairy producers. 21 The 22 victims of a perfect storm, entrenched monopolistic conditions 23 in the dairy processing market, huge spikes in energy and 24 commodity prices, and labor shortages. Of the handful of 25 organic dairy producers I personally work with, two have

surrendered certification in the last two years, and another is
desperately trying to sell.

The organic beef industry is even more dismal mainly because there really is no price premium for organic grass-fed versus conventional grass-fed beef. In part this stems from consumers not knowing the benefits of organic beef, in addition to potentially fraudulent cattle changing organic price premiums whenever they do arrive.

9 While conventional producers can use cheaper hay, 10 hormones to facilitate breeding, and conventional parasiticides 11 and fly control, organic growers can use none of these. I have 12 personally seen nearly a dozen cow-calf operators who have 13 decided that, quote, organic beef just isn't worth it.

We in the realm of organic enforcement have done very little to address this crisis and in many ways have made it worse. In an attempt to address perceived or actual fraud, our response has been a raft of new record-keeping requirements and multiple updates to growers' OSP, in some cases, twice in the same year.

The NOP's 2023 livestock memo, the SOE, and the OLPS all hit producers like a hailstorm when they were recovering from the tornado that was the pandemic and inflation. Unfortunately, the NOP guidance and certifiers' interpretation of new standards are becoming increasingly prescriptive and less willing to accommodate the differences between operations.

Burke Court Reporting & Transcription (973) 692-0660

1 So all in all, the data just sound insensible.

2 Larger operators simply hire nutritionists to 3 document grazing compliance and consultants like me to 4 continually update their OSP documents. Smaller operators 5 mostly suffer, or worse, receive non-compliances for small 6 record-keeping lapses that don't really reflect a breach of 7 organic integrity.

8 Thank you very much. I welcome any questions. 9 CHAIR SMITH: Thanks so much, Garth. You have a 10 question from Amy.

11 Amy, please go ahead.

12 VICE CHAIR BRUCH: Yeah, Garth, thanks for joining us 13 today and submitting your written comments and the oral ones 14 and your commitment to integrity. Really appreciate it.

15 I wanted to just ask you if you could walk us through 16 some of the inspections that you've done at ports of entry with imported products and just how that testing procedure can 17 18 happen.

19 MR. KAHL: Yeah, great question and very timely. So, 20 you know, ships that are moving bulk products are imminently 21 trackable. So if, for example, an organic importer were to 22 tell their certifier they had an organic bulk ship coming, it's 23 very easy to track that vessel with free apps. You can track 24 that vessel.

25

Once it arrives, the key issue is getting access to

Ports are considered kind of like the secure area at 1 the port. 2 an airport, and anybody that works in a port has to have a TWIC 3 card, which is a Transportation Worker Identity Card. Once you 4 have that card, and once you have been authorized by the 5 shipping agent who is contracted by the importer to manage the 6 ship and hire the longshore crews and all of that, you can go 7 to the gate. You can say, I want to go visit the General 8 Hudson that's birthed at Pier 5, and you can walk out there with your hard hat and your high visibility vest. 9

10 At that point, you go, you identify yourself to the marine surveyors who are basically doing the same thing. 11 12 They're looking to make sure that the cargo didn't get contaminated underway, and the captain or the chief officer, 13 14 and you say, hi, my name is Garth Kahl. I'm here, I need to take a sample of this product, or I need to observe when you 15 16 open the holds that the product wasn't in some other way 17 contaminated. So it's not particularly difficult.

State agencies are already doing inspections of ships 18 19 for pests, or they're doing inspections of ships that are 20 leaving full of grain. So it's not a big lift for the shipping companies or the ports. Again, you need to have people who 21 22 have a TWIC card, and you need to be on what they call the door 23 So you need to work with the shipping agent and the list. 24 importer.

25

The key is the importer needs to be required to

131

1 inform the certifier when the ship leaves the port of origin so that the certifier can work with inspectors to get somebody 2 3 there at the right time. But once you know the General Hudson 4 is coming, it left Turkey on this date, it's easy enough to get 5 on the app and say, oh, yep, there it is. Okay. Oh, it's 6 cruising up the East Coast. Oh, it's going to go into New 7 York, it's going to go into New Jersey, or wherever it's going. 8 So it's not particularly difficult. It just is an area where 9 organic inspectors haven't worked much up until this point.

10 VICE CHAIR BRUCH: Thank you, Garth. I appreciate 11 that.

MR. KAHL: No, thank you. And thanks again for thatwork you've been doing on the market bill. That's awesome.

14 CHAIR SMITH: Nate, please go ahead.

BOARD MEMBER POWELL-PALM: Thank you so much for your comments, Garth, and for that technical expertise answering the question there. That was a big question on my mind as well.

Going back to your dairy comment, for so long it 18 19 seems like producers in the organic community have been 20 pointing fingers at other producers. They're not grazing, 21 they're cheating. As opposed to the buyer, who seems to have a 22 lot more control over how this market works and who gives 23 access to it. What do you see as the next step to making the 24 dairy market more fair so that we can keep producers in the 25 space and not lose them, either out of livestock production or

1 out of organic?

2	MR. KAHL: Well, there's several things. I mean
3	someone a previous commenter talked about the farm crisis in
4	the 80s. I mean, honestly, the farm crisis in the 80s, part of
5	that was brought about by the repeal of 1930s-era price
6	supports. So we used to have dairy price supports. You
7	couldn't haul milk from California, Arizona and dump it into
8	the Northeast because, you know, even in the 1930s, the
9	Roosevelt administration figured out that it cost more money to
10	produce 100 pounds of milk in the Northeast than in California
11	or Arizona.

You know, in the best-case scenario, we could do that in the organic market, absolutely. Now, that would be a big lift, and it would require an act of Congress, but in the ideal, we could go back to the 1930s in the organic market and have some regional price supports.

And following that, I think we need the same kind of targeted grants that the USDA is doing now to increase the ability for local dairies or local dairy cooperatives, small groups of operators, to do local bottling plants, to do valueadded, to do ice cream, to do cream, to do yogurt. That's a huge lift.

You know, I work with a 100 cow dairy. She really, really, really wanted to do a bottling plant. She ended up going out of business before these, you know, before the most 1 recent rounds of grants came out from the USDA, but something 2 like that could have saved her. The ability to market local 3 grass-fed milk to a local market, to local retailers, or even 4 at farmers' markets, would be huge.

5 So, you know, those are two solutions. There's 6 probably more, but we need ultimately to look at the economics 7 of it because as you say, it's not just, oh, well, so-and-so's 8 got 1,000 cows. They're cheating. Like no, so-and-so's in 9 compliance with the regulation. The bottom line is we're all 10 fighting over the foils here.

BOARD MEMBER POWELL-PALM: So appreciate that. And CACS, under the leadership of Amy, we've been looking at these bottlenecks through a different discussion document. So it sounds like you're saying that is worth the time, that we should be examining these issues more.

MR. KAHL: Yeah, absolutely. And then, again, I can't help but make another pitch for sounding sensible. I mean there's no reason -- we need to look at risk-based analysis. People say that here at every meeting but it really, you know, the rubber hits the road on dairy producers.

Dairy producers work harder than, honestly, anybody I know. And a small dairy producer, like that added paperwork burden or that added two hours of inspection because that's what it takes, that's a real burden. And when you're already getting bumped around by everything else, it feels like yet 1 another incoming punch.

2 So, you know, obviously we need integrity. We need to ensure the traceability is there. But there's got to be a 3 way to do this in a risk-based manner so we're not beating up 4 5 on people who are barely hanging on. 6 BOARD MEMBER POWELL-PALM: Amen. Thank you. 7 MR. KAHL: Thank you. 8 CHAIR SMITH: Okay. Up next is Luke Giannforte., 9 I'm so sorry if I'm like getting that last name wrong. 10 BOARD MEMBER POWELL-PALM: The only reason I know the answer to this is because it's the name of our governor. 11 It's 12 Giannforte. 13 CHAIR SMITH: Okay. Giannforte. Great. Do we have Luke, and I think --14 15 MR. GIANNFORTE: I'm --16 CHAIR SMITH: Wonderful. 17 MR. GIANNFORTE: Can you hear me? 18 CHAIR SMITH: Yes, I can. 19 MR. GIANNFORTE: Okay. 20 Let me just do like a call for some CHAIR SMITH: Then I had Craig Schmitt. 21 next up people. Then we're going to try for Joseph Kibowatt, and then Randy Mitchell. 22 And I know 23 that we're behind, and so hopefully this all works out for 24 everybody. 25 So, Luke, please state your name and affiliation, and 1 then you can get started.

2 MR. GIANNFORTE: Thank you. My name is Luke 3 Giannforte. I'm a certified organic farmer in Cazenovia, New 4 York. Our farm has been certified organic for 25 years. Our 5 rotation includes a variety of small grains along with row 6 crops and cover crops.

7 We sell our crops throughout the East Coast with a 8 focus on food grade markets, but also sell feed grade as well 9 as seed. We have had on-farm processing capabilities that 10 allow us to add value to most of the crops we grow as well as 11 reach different markets.

12 We recently received an Organic Market Development Grant from USDA, and we will use these funds to improve our on-13 14 farm processing of corn and soy meal that we then sell to local 15 organic dairies. I believe this grant is a great investment in 16 the organic community by the USDA. It will help grow the organic market from within by supporting businesses that have 17 already invested in this market. 18

I also think the smaller, simplified equipment-only option is a great way to help producers such as us by providing enough funding to be the catalyst to encourage us to take the next step forward. Many other grants available through other channels don't allow funds to be used for equipment, and oftentimes equipment is the main hurdle that is holding a producer back. I would strongly encourage USDA to make this a permanent program so producers can count on it being there to apply for and allow them to continue to grow the domestic organic market from the inside.

4 We have worked hard over the years to diversify our 5 market and the crops we sell, but that being said, we still 6 feel the depression in prices in the corn and soybean market in 7 At the OGRAIN meeting this winter in Wisconsin, recent years. 8 we had presenters say that the domestic producers need to produce less corn and soybeans to stabilize the market and 9 10 bring prices back up to a profitable level due to the steady stream of cheap imports. 11

That seemed backwards to me. We should be supporting our domestic producers and encourage them to meet the demand rather than yield to imports. We need to level the playing field and make sure that the imports that are coming are all playing by the same rules we are.

17 On our farm, we can trace any product that leaves our farm all the way back to the field it came from, and we must 18 19 prove we can do this any time we have an organic inspection by 20 our certifier. The organic producers in this country put a lot 21 of time and effort into meeting and often exceeding the 22 requirements of their organic label, and we expect that anyone foreign or domestic be held to the same standards. Thank you 23 24 all for allowing me the opportunity to speak and for all you 25 guys do to support the certified organic industry.

1 CHAIR SMITH: Thanks so much, Luke. Looks like you 2 have a couple questions here. 3 Kim, please qo ahead. BOARD MEMBER HUSEMAN: I'm good with this little 4 5 hand-raising thing. I could beat anybody at Family Feud. 6 Sorry. 7 Luke, I really appreciate your comments and the 8 highlight of the USDA Grant Program and look forward to hearing 9 more about how you're able to implement that to help bolster 10 the Northeast product availability for livestock entities and producers of row crops and small grains. 11 12 My question to you centers around your customer base. 13 Have you noticed in the past year or two changes in outlets for 14 your products? Can you speak a little bit to that aspect in 15 your demand side? 16 MR. GIANNFORTE: Yeah, we have a very diverse 17 customer base. So we sell anywhere -- some of our value-added products -- we'll sell anything from a pound-and-a-half bag of 18 19 flour to a tractor-trailer load of corn. So we have a very 20 diverse group of customers, so we've been sheltered a little 21 bit from some of the volatility and don't feel it quite so bad 22 because of that customer base. 23 But we definitely do feel some of our larger feed 24 customers are reaching out and saying, well, I can get feed 25 cheaper here, and it's -- they don't know where it's coming

1 from, and they question it. But as other people that have 2 spoken today have mentioned, the dairy industry has been tough 3 the last few years, and so they're looking to save every penny 4 they can. So the paperwork's there, but it makes everyone 5 scratch their heads.

CHAIR SMITH: Thank you, Luke.

Nate, please go ahead.

6

7

8 BOARD MEMBER POWELL-PALM: Luke, thanks so much for 9 your comments today. I just wanted to make sure I heard you 10 right that at OGRAIN, a pretty large organic conference this 11 winter, there were economists saying that we should lower 12 domestic production because of imports. Did I hear you right 13 there?

MR. GIANNFORTE: Yeah, they said that the only way we were going to see prices return to levels they were at a few years ago was to reduce production, you know, supply and demand. And the only thing that the people in that room had the ability to do was lower their production to reduce supply and increase demand, which seems awfully backwards to me.

BOARD MEMBER POWELL-PALM: Absolutely. I couldn't agree more. And so in thinking about the level playing field that we've heard so many farmers talk about over the last couple of days, an alternative to lowering domestic production would be to make sure that imports coming in are legitimate. Would you agree with that?

1 MR. GIANNFORTE: 100 percent Yes. 2 BOARD MEMBER POWELL-PALM: Okay. Well, really appreciate you taking the time. I wish I had a screenshot 3 4 going for all the tractor backgrounds that we've had of folks 5 in the field calling in, because this is gold, and I really 6 appreciate you taking the time during such a busy year. 7 MR. GIANNFORTE: Thank you. 8 BOARD MEMBER POWELL-PALM: Thank you, Luke. 9 CHAIR SMITH: Okay. So you guys are, like I said, 10 keeping me on my toes today. Trying to be as accommodating as 11 possible. Do we have Joseph Kibowatt? I know Joseph has to 12 leave. 13 MR. KIBOWATT: Okay. Thank you. I don't know, can 14 you hear me? 15 CHAIR SMITH: I can hear you. 16 MR. KIBOWATT: Okay. Thank you. 17 CHAIR SMITH: After Joseph, then we're going to go 18 Craig Schmitt, then Randy Mitchell. 19 And so, Joseph, name and affiliation, and you can get 20 started. 21 MR. KIBOWATT: Okay. So my name is Joseph Kibowatt, 22 and I'm the agronomist at Timeless Seeds. Timeless Seeds is a 23 company that was founded in 1987 in North-Central Montana by 24 four farmers, and it's a certified organic enterprise which 25 contracts with about four to five dozen growers. These are

family farms across Montana and the neighboring states, and we process and market U.S.-grown food-grade chickpea, lentils, and specialty grains that's Emmer and some barley. And our markets include domestic food distributors, natural food stores, food manufacturers in the U.S., and some in overseas.

6 So Timeless Seeds, we support the need for residue 7 testing for organic integrity, and also to protect the family 8 farms and processes. And my submission today is actually 9 bringing into focus our own experience here at Timeless Seeds, 10 what we've experienced with residue contamination on our 11 products that could not market, that were supposed to be 12 certified organic.

The strong need is because the damage that is often caused by the residue testing and contamination is always borne by the farmer, in this case, for our case, and also by extension processers like Timeless.

Part of the challenge is the loss of product certification and loss of expected income, and this is because sometimes we want to sell this product to, say, Europe, and they have the very strict testing needs. And when they test some of our products, once they find that they are out of spec for their market, we can't even market this organically in the U.S.

That being said, we've had situations where, like chickpeas coming in from Argentina, have access to U.S. 1 markets. They have the organic label and marketed at even 2 below the contract price that we have. A case in point very 3 recently was some chickpeas that were marketed in Oregon at 70 4 cents, which is, you know, from Argentina. How can we compete 5 with that? It's almost impossible.

6 So we really need to protect our markets because, 7 one, our growers are doing their best, and we can't have 8 products that are coming from overseas competing with our 9 farmers for the same markets. And also, some of these products 10 that are being tested are not registered for false crops when And we feel that we just need a 11 they are tested overseas. level playing field for everybody, whether it is domestic or 12 from overseas so that our farmers don't feel that they are 13 14 getting the short end of the stick.

15 Thank you for the opportunity to address the NOSB16 this afternoon. Thank you very much.

17 CHAIR SMITH: Thanks, Joseph.

18 Nate, please go ahead.

19BOARD MEMBER POWELL-PALM: Thank you, Joseph. Great20timing. Right on the money there, keeping us moving along.

When you were describing the amount of testing that other countries do on American products and put a stop sale on American-produced goods, it sounds like if we increase testing even a lot, we're only playing catch-up, that this is in no way an excess move but rather that we just haven't been using the 1 tools that so many other folks have been using for a really 2 long time. Would you agree with that?

MR. KIBOWATT: Absolutely. I think we need just to 3 increase the number of tests that we can. And also, you know, 4 5 because one thing is when everybody knows that there is a 6 market that's accessible, and we can access that market without 7 any barriers, I mean what are we doing to those people who are 8 trying to play by the book here domestically? I think we just 9 need to create a nice level playing field for everybody and 10 increase our testing. Absolutely. Thank you so 11 BOARD MEMBER POWELL-PALM: 12 much for your comments today and for your work out there. Thank you so much for being with us. 13 CHAIR SMITH: 14 Next up we have Craig Schmitt, then Randy Okay. Mitchell, then Kim Dykman. 15 16 Craiq? 17 MR. SCHMITT: Yeah, do you hear me okay? 18 CHAIR SMITH: I sure can. State your name and 19 affiliation, and then you can start. 20 MR. SCHMITT: Great. I'm Craig Schmitt. I'm a farmer in Northeast Montana, and I'm part of the Montana 21 22 Organic Producers Co-op. In addition to growing grain, I'm 23 also -- and the greens I do actually are for Joseph a bit as 24 well, who we just talked to. I grow lentils and chickpeas and

other thing. In addition to growing grain, though, I'm also

25

building a seed cleaning facility that will allow me to sell grain directly to customers, and it gets a little more value add by cleaning it, getting it ready for mills that we can sell direct and reduce a lot of cost that we tend to see in this transportation.

So with that, I did apply for this organic grant 6 7 which we were accepted with for the OMDG, and that has been a 8 huge help to get going on some of the equipment and the facilities that I need to do this kind of thing. 9 And I'm 10 actually planning on doing some of this cleaning for a lot of other area organic farmers in Northeast Montana so that we can 11 get more of the people in this area. We have to drive 360 12 miles one way to deliver grain many times, and it just, you 13 14 know, at your cost of \$2 a bushel just to get grain places is a 15 big expense.

So I'm excited to see that the USDA is helping with that, and I hope that that will continue every year because we continue building up facilities that will do these things, there's a lot of needs for that, and to get things on railcars cleaned and delivered. So that's one issue I'd like to talk about.

The other one is the market stability. There's organic consumers and everybody wants to have a stable market when you're farming. There are so many variables that controlling the price and the price getting out of hand because of imports and different things should not be it. I mean, the
 prices last year have changed huge.

Fortunately enough, I've gotten a couple of multiyear contracts for wheat, but there's a lot of farmers that don't know about those, and they're really hurting because of that, and they're not even -- some are going out of organic just due to the prices.

8 So anyway that's the two points I think I'd like to 9 make about these, in organic right now, I think that I'm 10 facing. So I think with that, I appreciate all the work you 11 guys do, and I just hope we can get there to keep moving things 12 forward.

So I don't know if there's any questions?
CHAIR SMITH: Looks like you've got one from Nate.
BOARD MEMBER POWELL-PALM: Thank you, Craig, for your
comments.

Two bucks a bushel, that's a lot of money. When we're talking about marketing grain, I mean what you described right there seems like one of the biggest barriers. How are we moving this grain less so that we can retain some of that value?

And if I heard you right, you were supportive of the Organic Marketing Development Grant, and I think you said you'd like to see it institutionalized, offered every year. Is that correct? 1 MR. SCHMITT: Yes, absolutely. I mean I'm setting up 2 cleaning. I have a cleaner I finally purchased. I've got to 3 get the bins connected to it, grain handling. There's lots of 4 things, scales when you're selling it direct. And there's a 5 lot of people in the area who would be able to use this as 6 well, that kind of funding for some equipment, so they can 7 actually really increase the prices and be viable. So yes, 8 absolutely, every year would be awesome.

9 BOARD MEMBER POWELL-PALM: Fantastic. I really10 appreciate that feedback. Thank you.

11

CHAIR SMITH: Amy, please go ahead.

VICE CHAIR BRUCH: Yeah, Craig, thanks for joining us. Love to hear your story, and nice work on the entrepreneurial piece of the organic farming with the vertical integration that you're introducing. That's incredible.

16 Can you talk about the process that you went through to ensure that you're putting in this vertical integration and 17 there's some markets at the end of the chain there? 18 You 19 mentioned you worked with some of the end users. Did you work 20 with them in advance before you put the -- before you're 21 putting the infrastructure in, or are you working on that now? 22 That's what actually gave me more of MR. SCHMITT:

the idea was that, yeah, we have contracts with the mills directly through the -- MOPC is a group in Montana -- a group of us are doing that, and one particular customer needs it in

1 2,000-pound totes that are on a truck. That's not normal 2 shipping for farmers. So there's some infrastructure and 3 things just to be able to handle that. And other customers may 4 want it in a little different way because maybe they're going 5 into the city where they can't have like mass, you know, semi-6 truckload of grain. So yes, it's because we have the market 7 already, and we have -- and we're growing it, and we're just 8 feeding it by supporting it with equipment. 9 VICE CHAIR BRUCH: Thank you. 10 CHAIR SMITH: Thanks so much for being with us today, 11 Craig. 12 Yeah, you're welcome. MR. SCHMITT: 13 CHAIR SMITH: Randy Mitchell, are you there? 14 After Randy will be Kim Dykman, then Maria Gerling. 15 MR. MITCHELL: Yes. 16 CHAIR SMITH: Okay. I'm here. Can you hear me? 17 MR. MITCHELL: CHAIR SMITH: 18 Yes. 19 MR. MITCHELL: Okay. 20 CHAIR SMITH: I think we have some slides for you? 21 Oh, great. MR. MITCHELL: Oh, yeah, just the talking points, 22 23 right. Yes. 24 CHAIR SMITH: Awesome. Okay. Name and affiliation, 25 and you can get started.

MR. MITCHELL: Yes. My name is Randy Mitchell. I'm Vice President of Nutrition and Research with Purdue Foods, which is a large organic broiler producer. I've got 30 years. -- I'm a practicing poultry nutritionist with 30 years of experience. Next, please.

6 And, really, one of the things I wanted to talk to 7 the Livestock Subcommittee specifically about was the sunset 8 date of DL-Methionine for poultry that's coming up in 2026. Most of you know the work of the Methionine Task Force, which 9 10 has long sought to ensure that organic poultry has access to sources of methionine and to search for credible options to 11 synthetic methionine. But, to date, no viable alternatives to 12 synthetic methionine has been found, and it is essential for 13 14 the health of organic poultry and sustainability of organic 15 poultry farming to keep the option for synthetic methionine 16 available. Next, please.

17 So but I also wanted to discuss four questions that 18 was put into the meeting notes from the Livestock Subcommittee, 19 so I wanted to address each one of those one by one. Next, 20 please.

21 So the first one is about the -- given the supply 22 interruptions of soybean products during 2022 -- what are other 23 organic options for methionine? And so I think organic canola 24 meal, organic sunflower meal, which are both available 25 domestically, and rice protein meal, which is an import product, are all sources of protein -- you can see the little graph on the side here -- with substantially higher methionine plus cysteine as a percent of total protein, and nutritionists look at methionine plus cysteine together because they're both sulfur-containing amino acids.

6 However, the other line there is looking at 7 digestible lysine which is a really critical amino acid for 8 broilers as they're rapidly growing. And one thing you'll see 9 is that these protein sources, while higher in methionine, are 10 deficient in lysine which is what is considered the second limiting amino acid for a corn soy-based diet. 11 So high 12 inclusions of these ingredients to meet the methionine requirement will result in unbalanced diets because of the 13 14 lysine deficiency. Next, please.

15 The second question was about whether or not USDA 16 organic regulations should be changed to align with Canadian regulations which are unrestricted on amino acid use, or even 17 the EU requirements which allow non-organic feed to be 18 19 contained. So and I think that adopting the Canadian 20 regulations to allow unrestricted amounts of synthetic amino 21 acids such as methionine and lysine, within the 5 percent non-22 organic allowance, would allow producers to feed a wider 23 variety of feed ingredients to have more balanced diets for leading to better health. 24

25

The Canadian standards also allow for the use of

1 phosphates for purposes of lowering phosphorus excretion. 2 Thanks so much, Randy. CHAIR SMITH: Any questions for Randy? And these slides will be 3 4 available to the Board -- just so you're aware of that -- so 5 we'll be able to look at the rest of these. It looks like we 6 have a couple questions. 7 So, Nate, please go ahead. 8 BOARD MEMBER POWELL-PALM: Thank you so much, Randy. 9 You are the guy we want to talk to on the Livestock 10 Subcommittee. These are -- thank you for answering the questions we asked. Really appreciate it. 11 12 When we're talking about animal welfare, and someone talked about earlier the effect of overfeeding protein in order 13 14 to catch up on these essential amino acids resulting in high ammonia levels in the barn --15 16 MR. MITCHELL: Right. 17 BOARD MEMBER POWELL-PALM: -- could you speak to the impact on birds that high ammonia levels have, and the welfare 18 19 considerations that go into that? 20 Sure, yeah. It's, you know, they can MR. MITCHELL: obviously result, in worst cases, even blindness and things 21 22 like that, but certainly respiratory problems, also 23 photodermatitis on the feet. 24 But the higher protein is more than just ammonia. 25 There is higher incidences of enteritis-type issues when you're allowing all that protein to -- the nitrogen to feed the lower intestines, it just really allows the pathogenic bacteria to really bloom and cause all kinds of problems.

BOARD MEMBER POWELL-PALM: Really appreciate that.5 Thank you.

6

CHAIR SMITH: Nate Lewis, please go ahead.

7 BOARD MEMBER LEWIS: Are there any downsides to 8 poultry health or nutrient or feed formulation to have sort of unrestricted amounts of methionine included in there? 9 Are 10 there any potentials for abuse on the use of methionine? Is there an incentive to overfeed methionine for some sort of 11 12 economic gain? I guess that's probably the heart of my 13 question.

14 MR. MITCHELL: Yeah, and that's a great question. Ιt 15 really is. Really, after you meet the requirement for 16 methionine, overfeeding methionine actually will do the 17 opposite and hurt productivity. It's a very well-described thing, and with any kind of amino acid, you feed too much of it 18 19 and it will actually cause birds to back off feed. And 20 methionine is actually quite expensive, so there's no reason to -- for a producer -- there's no economic incentive for a 21 22 producer to do that.

CHAIR SMITH: Brian, please go ahead.
 BOARD MEMBER CALDWELL: Yeah, thanks, Randy. Just
 wondering whether there's any like animal slaughter byproducts

that can supply methionine that are not currently allowed, but
 whether that would be a direction we might want to go.

MR. MITCHELL: Animal slaughter, well, it's strictly prohibited, yes. I mean there would be -- I mean, you know, obviously feather meal, which is something that would contain a high amount of cysteine, which is the other sulfur-containing amino acid, would have some. But that obviously would be outside of the purview right now of what the standards allow.

9 BOARD MEMBER CALDWELL: Yeah. Any mammal byproducts? 10 MR. MITCHELL: Mammal, yes. Certainly they would have some probably higher than -- a lot of it, the mammalian 11 12 animal proteins are really quite variable. So really depending on what constituents would actually make that up, they would be 13 14 -- they certainly could add some methionine to that, to the ration. 15

16 BOARD MEMBER CALDWELL: Good, thanks.

CHAIR SMITH: Kim, please go ahead.

17

BOARD MEMBER HUSEMAN: Hi, Randy. I really appreciate your lens as a nutritionist in the organic space. I think it's one that doesn't get heard as often, and so I'm so glad that you're here today, so thank you first.

Secondly, my question is around -- we've brought this up a couple of times -- is around animal welfare, and I'm curious from your perspective if you feel like the current optionality on some of the diet restrictions pose any kind of 1 an animal welfare concern.

2

M. MITCHELL: Yes, I do, and I see it. 3 I put a 4 picture in my presentation which I didn't get through fast 5 enough which -- and this occurs occasionally when we see poorly 6 processed soybean meal where -- and it was especially rapid 7 during the year 2022, which we spoke about, with really few 8 options about soybean meal. When it's not processed correctly, 9 either over-processed or under-processed, particularly cysteine 10 is unavailable to the animal, and you can't add enough to keep problems like that from occurring. 11

12 And it's not every flock, it's -- and also it's especially bad when it gets warm because during heat stress 13 14 you'll also have poorer absorption of amino acids. So it's 15 almost like a tipping point that you do, and I can tell you as 16 someone who is responsible for nutrition and responsible for 17 animal welfare, in an organic diet there is nothing you can do 18 for that chicken there, nothing. And it is a very helpless 19 feeling when you have -- when you go in to see a house like 20 that knowing you've got no other options what to do, so --21 BOARD MEMBER HUSEMAN: Thank you. 22 Thanks so much, Randy. Appreciate your CHAIR SMITH: 23 presentation.

24 MR. MITCHELL: Thank you. Thank you very much.
25 CHAIR SMITH: Yes. Okay. Up next we have Kim

154

I live

Burke Court Reporting & Transcription (973) 692-0660

I know that the certifier that we work with the closest has implemented new questions for certification pertaining to the SOE rules, but they're addressing fraud at

threatening our U.S. markets causing, in some instances, the 13 decertification of local U.S. organic acres due to market 14 conditions. 15 16 And how do we know and ensure that what a country is exporting is actually provable? Are those countries producing 17 the amount of organic crop that they are exporting? Why are we 18 19 accepting organic products from food insecure countries? It 20 should be imperative that every shipload of organic crop be 21 residue tested, not just 5 percent of the certifier's customers

6 in Western Nebraska where I work with 20 or so growers in
7 Nebraska, Colorado, Iowa, Illinois, and Georgia. AgriSecure
8 provides digital certification support.
9 We are concerned with fraud at the import levels -10 and we've been talking about this for the last couple of
11 sessions -- but while the new SOE rule was needed, it doesn't
12 go far enough to address the organic imports that are

I'm Kim Dykman with AgriSecure.

2 MS. DYKMAN: There we go. Can you hear me? 3 CHAIR SMITH: Sure can. State your name and 4 affiliation, and you can get started.

1 Dyckman, then Maria Gerling, then Dave Chapman.

MS. DYKMAN:

5

22

as is done now.

1 the local level with those questions. Every imported load of 2 organic crop should be subject to residue testing in order to 3 protect our U.S. growers. We need a level playing field.

4 We know that U.S. grown product is superior. At a 5 local level then, in keeping with the new SOE, how do we ensure 6 bills of lading provide an accurate tracking measure of organic 7 And how can we reconcile bills of lading to verify that crop? 8 there are no double sales? Can we establish two or three best 9 practices for fraud prevention at our local levels? I'm happy 10 to provide some best practices from my group of growers.

Yesterday, a post on social media echoed the confusion and open interpretation of SOE as some certifiers are requiring semi-trucks to placard for organic. The certifier our group works with said, no, bills of lading and organic paper trail for truckloads are enough for them.

16 So, and then just quickly, the 823 program at NRCS 17 I'm hearing from my growers -- while in spirit it was great for helping transition acres through the process -- the local 18 19 offices are not well informed, deadlines are missed. They 20 can't get the information they need to help growers through the 21 This is a great program for transitioning application process. 22 We need to support it and get more organic acres going acres. 23 in the pipeline. Thank you for serving on the Board and for 24 this opportunity to comment.

25

CHAIR SMITH: Thanks so much, Kim.

1 Any questions for Kim? I don't see anything. Oh, 2 hold on. I spoke too soon. 3 Amy, please qo ahead. 4 VICE CHAIR BRUCH: Sorry, I was slow to raise my hand 5 there. 6 Kim, thank you for joining us today. Thanks for your 7 work with helping farmers transition to organic and stay 8 organic. Can you talk about retention of acres with the 9 10 producers that you're working on or working with? Are they looking to grow? Are they looking to maybe decertify acres? 11 12 Or where are they at in the spectrum? I think they would grow. Several have 13 MS. DYKMAN: added fields this year that I work with, and some are 14 transitioning some new fields. But I've also lost three 15 16 different farms that decertified just because of market conditions. And two were in Kansas, and they had a hard time 17 getting their crop to a place that would provide a fair market 18 19 price just because of trucking costs, and they were just too 20 far out. And then I lost a quy that was organic feedlot, organic cattle, and it was just the -- he was just frustrated. 21 22 So same issue down the cattle side, just he lost processing --23 he's in Nebraska -- couldn't find a way to truck them where 24 they needed to go so that it made sense economically. 25 VICE CHAIR BRUCH: Thank you, Kim.

Thank you, everyone. MS. DYKMAN: CHAIR SMITH: Thank you so much. We have Maria Gerling, then Dave Chapman, then Okay. Doug Currier.

5 MS. GERLING: Yes, this is Maria Gerling. Hello. As a consumer of organic food, I should be able to expect that the 6 7 soil in which the organic food has been grown has been free of 8 non-organic synthetic chemicals for the past two years.

9 Additionally, there are seven universal points that 10 consumers of organic food must demand from organic agriculture. One, the use of decomposed organic matter in the soil where the 11 crops are planted. Two, the rotation of crops at use in 12 13 sustainable eco-agro system. Three, the recycling of organic waste in order to provide minerals and nutrients to the soil. 14 15 Four, the use of non-toxic controls that will not harm the 16 environment or human health.

Also, number five, the use of non-synthetic 17 fertilizers, herbicides, and pesticides. 18 Six, the consistent 19 use of the organic certification logo. Seven, authorize 20 officials to inspect and certify farmers, producers, 21 processors, distributors, wholesalers, retailers, involved in 22 the production of organic food.

23 Also, there are seven universal points that the 24 consumer should demand of the certified organic food on the shelves at the market. One, the food comes from organic 25

1

2

3

4

1 agriculture. Two, the food is free of synthetic additives. 2 Three, the food is hormone-free. Four, the food has not been 3 radiated. Five, the food has not been genetically altered. 4 Six, the food has labeling that lists the organic ingredients 5 and its respective organic certification logo. Seven, the 6 backing of authorized entities that control and certify the 7 products as organic. Without insisting on the above listed 8 points, the consumer will be ripped off. Thank you very much.

9 This is an example. I have an apple here. I have it 10 on my table during four months, and this is a mummy. I mean, what did they do to this apple? I'm sure that radiation is one 11 12 of the -- is what they did to it. So everything -- another You have products that the only thing is, oh, this is 13 thing. from the market. Market? Yeah, the market, but where is this 14 15 coming from? We don't have any information. I spend my money 16 in organic food, and I feel ripped off. And it's -- okay.

17 CHAIR SMITH: Thank you so much for your comments.
18 It looks like you have a couple of questions here, so hang
19 tight.

20

Brian, please go ahead.

BOARD MEMBER CALDWELL: Yeah, thanks, Maria. You gave some really clear enumerated points that we can use because we've been talking about, okay, how is it best to promote organic produce and products to the consumer? And you laid it all out, so I really appreciate that. Thank you very

1 much. 2 MS. GERLING: Thank you. CHAIR SMITH: Nate, please go ahead. 3 BOARD MEMBER POWELL-PALM: Very similar question. 4 5 What would you say is like the top two highest-punch takeaways 6 that consumers should know about organic and should expect from 7 organic to get them -- that they value? 8 MS. GERLING: Labels, labels, labels, true labels. 9 No cheating labels. 10 BOARD MEMBER POWELL-PALM: All right. Thank you. 11 CHAIR SMITH: Thank you so much for your comments, 12 Maria, and for being with us today. 13 MS. GERLING: Thank you. 14 CHAIR SMITH: We have Dave Chapman, then Doug Okay. 15 Currier, then Adele Durfey. 16 MR. CHAPMAN: Okay. Hello, everybody. I'm Dave Chapman, co-director of the Real Organic Project, I'm a member 17 of the Organic Farmers Association, and I'm also a farmer who 18 19 runs Long Wind Farm in Vermont. 20 I want to talk about something I think we can all agree about, which is rare for me. I've seen something very 21 22 disturbing in the last few years. I've seen a lot of small farms leaving organic certification, and I'm sure we're all 23 24 aware of this. But just in the last year for the Real Organic 25 Project, we have lost 100 farms that we certify. That's close

to 10 percent of the farms that we certify as real organic.
And they've left the NOP program. And they're all small farms.
They're not the mid-scale. They're not the large farms that we certify. They're the small ones.

5 And I've tried to think about what can we do, because 6 I think everybody in the National Organic Program loses by 7 I think Grimmway's and Driscoll's lose. this. I think 8 everybody loses when the small farms leave. And more and more we see organic becoming a large-scale industrial farming label, 9 10 which none of us wants. It doesn't help the big or small 11 producers.

12 And I'm really struck by, in Denmark, where certification is absolutely free. It's all paid for by the 13 government. And I actually think that that would be a huge 14 15 step forward for the National Organic Program. We could easily double the number of certified organic farms in a year if all 16 17 certification was paid for. But at the very least, we could try to get at least the certification entirely paid for in 18 19 smaller farms, maybe less than \$500,000 in gross sales. And it 20 would make a big difference.

The small farms often don't see an economic benefit for getting certified. And when we began certification, what we saw was people did it because they believed in a movement. Now it's become a little bit more of a business proposition. Farms are always struggling. So if we took away the economic pain of getting certified, there's still a lot of paperwork and whatnot that people have to do. But I think it could be pretty important.

Right now, farms can get about 50 percent of their
fee paid for a small farm, up to \$750 through the FSA. They
have to wait half a year to get the money. It would make a big
difference if it was just covered by the government.

And finally, I just wanted to say that Real Organic urges the NOSB to not permit the recycling of so-called biodegradable plastic in compost. I know you're working on that. Thank you. I'm happy to finish ahead of time.

12 CHAIR SMITH: We appreciate the 20-second yield. It 13 looks like you have some questions from Allison.

BOARD MEMBER JOHNSON: Thanks, Dave. I reallyappreciate your comments.

On the cost share program, I really agree with you that funding that goes just a little bit further to cover producers' costs would go a long way, not within our power to make it happen, but it is included in the transition proposal that we're working on under the banner of the transition initiative feedback and what could work better.

I'm curious if you have any numbers, like a sense of how many producers might stay in the program longer if the cost share reimbursement was greater, or conversely, producers who were dropping when the reimbursement levels were lower. Any numbers you could offer to help us get specific.

1

2 MR. CHAPMAN: Yeah, Allison, I wish I had some 3 numbers, but I don't. You know, maybe Jenny Tucker has some 4 numbers. I don't know. I sort of doubt it. I think that we 5 see this steady erosion of smaller farms leaving certification.

6 I hear from a lot of farms that it's just too
7 expensive. So, you know, they're not saying I can't possibly
8 do the paperwork. They're saying I can't come up with the
9 money. And on a smaller budget, that \$750 or \$1500, if they
10 don't know about how to get that money back, becomes a number
11 too big for them.

BOARD MEMBER JOHNSON: Yeah, thank you. I appreciate that. The numbers are hard to come by, so anyone who's able to even anecdotally collect some more details, I think help us make the case. But I think you'll be hearing about this year's cost share in the next month or so, so everyone should stay tuned for that. Thank you.

18 MR. CHAPMAN: Great. Yeah, thank you.
19 CHAIR SMITH: Nate, please go ahead.

BOARD MEMBER POWELL-PALM: Thank you so much for these comments, Dave. I really appreciate ROP's focus on consolidation in markets and equal opportunity on an equal playing field.

Do you think that \$750 is the difference between staying in business and not? And I'll just give a little 1 context to that question. I was at the peak of a hill 2 yesterday rolling my alfalfa fields, looking at a neighbor farm 3 that used to be this just absolutely bustling sheep farm with 4 great community, inter engagement, and it's quiet now. There's 5 just nothing going on over there. And they used to be organic, 6 but they're just totally out of business.

7 And when I think about was cost share enough? In my 8 head, it's such a tiny amount of money that I worry we're 9 fighting over just peanuts when we talk about cost share. We 10 need to talk about -- I love your point about federal government paying for the certification costs, but that even 11 12 seemed a little low. It's how do we get, you know, small producers a slice of the pie that is the trillions of dollars 13 14 of the American food system. And I was wondering if you can 15 speak to how do we dream bigger and really ask for the world 16 that we want to see?

17 MR. CHAPMAN: I agree with you, Nate, of course. And look, for my farm, \$750, I wouldn't notice it, honestly. 18 But 19 for a very small farm, they absolutely do notice it. But the 20 question isn't just does that make the difference between 21 bankruptcy or not, because those 100 farms we lost didn't go 22 bankrupt. We have another number for those farms, the numbers that went out of business. 23

These are the farms who are still farming the same way, and they just chose not to be certified as organic, and 1 that's something that's happening. Do I think \$1500 would make 2 the difference? I actually do think it would make the 3 difference for a lot of small farms. But I agree with you. We 4 need to think bigger. And the real thing is how do we create 5 the market so that this works economically.

6 It's one of the things that drives me a little bit 7 crazy about let's put millions of dollars into organic 8 transition. And, you know, we know there are these great 9 programs out there, and people graduate, and they've been well-10 trained, and then they go bankrupt. And what we need to do is 11 create the economic realities where these small farms and big 12 farms can thrive.

And for me, I believe that's about guarding our standards so that they stay real, and guarding those false imports that shouldn't be certified. All those things start to raise it up. It used to be that a small organic dairy farm in Vermont could make a good living. Now they're going out of business. That's just about cost. That's about price.

BOARD MEMBER POWELL-PALM: I couldn't agree more, and I really appreciate your perspective on this. And I just want to highlight that we have a gosh-darn thread going here, folks. If Dave Chapman with ROP and a grain farmer in Nebraska and Montana all have the same thing, I think we're on to something. So thank you very much.

25

MR. CHAPMAN: Thank you, Nate. Yeah.

Burke Court Reporting & Transcription (973) 692-0660

3 conversation that you and Nate had kind of brought out some of the answers I was seeking to my questions. 4 5 I was just curious to dive down deeper into these 6 folks that you know that are decertifying or getting out of the 7 You mentioned the cost share was a challenge. program. 8 Through your conversation with Nate, it sounded like markets were also a challenge. Are there other barriers that you're 9 10 noticing with this group of 100 that you just mentioned? Well, you know, we certify all kinds of 11 MR. CHAPMAN: 12 farms, but we're probably heavier in vegetable and fruit farms -- produce farms, and those issues are a little bit different. 13 For the grain farmers, for the mill farmers, it's just that the 14 15 market is so depressed, and I believe it's not because sales 16 are down. It's because I would say competition that actually 17 isn't quite legitimately organic is up. And, you know, we know for the grain, yes, we've had domestic fraud, but we have a lot 18 19 of international fraud coming in. And we hope SOE will stop

If we could stop that, I think automatically we would see the prices go up and farmers could make a living. It's how capitalism is supposed to work. And, you know, when we short circuit that system, then everything starts to fall apart. So I think, for me, the protection of the integrity in the

We'll see.

CHAIR SMITH: Amy, please go ahead.

VICE CHAIR BRUCH:

Thanks, Dave. Actually, the

1

2

20

that.

We don't know.

marketplace, all boats will rise that are really organic.
 Yeah.

VICE CHAIR BRUCH: Thank you. Yeah, I appreciate that extra information. And then one last question. We do have a crop insurance document that we're discussing again this upcoming board meeting. Is there any comments you'd like to bring forth on behalf of produce growers for needs for change on crop insurance?

9 MR. CHAPMAN: Jeez, us produce growers in Vermont 10 didn't know there was such a thing as crop insurance. So I don't know what to say, except it doesn't seem to apply to us. 11 For the people it does apply to, I know that it needs some 12 reform, and it really punishes organic grain farmers. 13 So 14 anything that you can do to guide that ship would be greatly 15 appreciated. You know more about it than I do. I'm not aware 16 of vegetable farmers using crop insurance, so I need to be educated maybe. 17

18 VICE CHAIR BRUCH: Thank you.

19 MR. CHAPMAN: Thank you, Amy.

20 CHAIR SMITH: Jerry, please go ahead.

BOARD MEMBER D'AMORE: Yeah, I actually took my hand down because I was going to give room for Mr. Chapman to talk about competing labels on a single clamshell. And I'm thinking better of that because it's a long discussion. But I would like to say to the entire group the building of a common 1 language around this discussion is so important, and it's 2 happening right in front of my eyes, and I truly, truly 3 appreciate it.

4 Thank you, Jerry. MR. CHAPMAN: Yeah. I'll just say 5 I'm not opposed to a lot of logos on a label. I think that there's room for that, and it's a reflection of the fact that 6 7 people's needs aren't quite being met by one label. And so. 8 but even in the EU where they have pretty strong federal standards, there's an add-on certification in virtually every 9 10 country for a higher level. So I think that that can work.

I think that we all have a lot of 11 But I agree. 12 I just heard Paul Holmbeck speak, you common interests here. 13 know, from Denmark, and he's an American who was head of 14 Organic Denmark for about 20 years. It was a very 15 inspirational speech about what they're doing with organic in the EU, and they're making much more progress than we are. 16 They have vastly more acreage certified as organic. 17 Their organic sales are growing faster than America, and their growth 18 19 sales are higher than America.

So we should take some lessons from them. And they're doing a lot in terms of getting the governments to support organic, to support the marketing in the stores, to support the farmers with technical support. We can do that too.

25

CHAIR SMITH: Thanks, Dave. Thanks for being with us

1 today.

Okay. we have Doug Currier, Adele Durfey, then Jess
Alger, then we're going to take a break.

4

Go ahead, Doug.

5 MR. CURRIER: Hi. So, hi, my name is Doug Currier. 6 I'm presenting comments today on behalf of the Organic Materials Review Institute. It's mission is to support the 7 8 growth and trust of the global organic community through expert, independent, and transparent verification of input 9 10 materials, and through education and technical assistance. Our comments are intended to provide technical data and other 11 12 information about materials to support the NOSB's work. Our organization is accredited through the USDA's Quality 13 14 Assessment Division. I'm presenting comments today on inert 15 ingredients, compost, and proposed technical report template revisions. 16

17 So first, inert ingredients, we continue to maintain 18 that an updated system used for the review and approval of 19 inert ingredients should ensure that any inert ingredient 20 approved for use in USDA organic production meets all of the 21 evaluation criteria in OEFFA. This updated system must also 22 not overwhelm the NOSB to the point where your mandate cannot 23 be fulfilled.

24 We do not support individual listings of inert 25 ingredients on the National List since that would most likely mean that that second item, one that we review as a requirement in a new updated system cannot be met. We maintain that the assessment of many of the OEFFA evaluation criteria can be fulfilled by considering EPA documentation used during their past reassessment, work, and documentation, from subsequent rulemaking efforts.

7 Consideration of remaining criteria evaluation and 8 how to present the outcomes of these evaluations, be it a 9 National List or otherwise, are areas that we encourage the 10 Materials Subcommittee to seek advice from experts at their 11 committee meetings. We encourage continued attention and focus 12 on the issue. The finish line as in sight.

Compost. I'm looking forward to exploring the questions and issues the subcommittee has raised on compost at the meeting next week in person. There is one point there I wanted to highlight now that was just involving contamination removal prior to composting.

We require composters that we work with that use raw material or feedstocks that are at high risk for contamination have a foreign materials removal method in place. So high-risk feedstocks right now include green waste that are municipally collected, like leaves, yard clippings, and food waste.

Also, just another note, we no longer consider the term IREP to apply to input materials, and it's separate from the concept of contamination and crop fertility inputs. 1 And then lastly, TR templates. As you've seen from 2 our written comments, we're not in favor of amending the TR 3 template in a way that officially expands the scope to include 4 focus on the use of excluded methods in the manufacture of 5 materials on the petition. Our position is not only coming 6 from an organization that currently writes these reports, but 7 it takes into consideration future organizations that might 8 have to review that work.

I've often heard over the years this question, yes, 9 10 we can ask for some of the documentation and information, but what are we going to do with the information we get back? 11 In 12 addition to that logistical challenge -- sorry, in addition to the logistical challenges outlined in our comments, knowing 13 what to do with the information that is received is a major 14 15 concern for us given the history of this area when it comes to 16 applying the definition of excluded methods and their subsequent prohibition in input material review. 17

18 CHAIR SMITH: Thanks so much, Doug.

19 MR. CURRIER: Sure.

20 CHAIR SMITH: Questions for Doug?

Go ahead, Amy.

25

VICE CHAIR BRUCH: Doug, thanks so much for OMRI's comments and you representing some additional comments via oral methods this time. I had a question on compost.

MR. CURRIER: Sure.

1 VICE CHAIR BRUCH: And, yeah, it's a pretty 2 comprehensive worked-in item that the Crop Subcommittee is 3 working on, and the Board. I didn't know, though, from your 4 opinion, should we also look to increase the scope further and 5 include a review of inoculants used for compost in this review, just to add potentially further quardrails or framework, 6 7 because there's a lot of innovation happening with inoculants, 8 and they're leading to maybe modified practices such as 9 reduction of the need to mechanically turn these piles.

10 MR. CURRIER: From my experience, I think that's 11 covered under our current system. We're really looking at 12 anything that's added to a compost pile, and that would include both material and those smaller inoculant-type materials. 13 So 14 in my experience, we have that covered, and those inoculants 15 would need to meet that standard, basically being allowed 16 compost feedstock.

VICE CHAIR BRUCH: Okay. Thank you. And then just a quick follow-up, with those inoculants do you sense -- I know that OMRI has approved some inoculants for compost use. Is there a risk there with excluded methods? Should we unpackage that a little bit more on these inoculants?

22 MR. CURRIER: Not sure about that, but we do ask 23 about the use of excluded methods to manufacture any of the 24 input products that are applying for our review, so it would 25 definitely come out in our review if someone said yes to that. 1 But then it kind of gets back to this comment about, 2 well, we've got the information, what are we going to do with 3 And, you know, we've come up with these decision trees it? 4 that are in our manual back in 2002 that kind of get at that, 5 and so there's additional questions that we ask ourselves 6 whenever someone might say yes. We're working through those 7 trees in order to determine compliance.

8 VICE CHAIR BRUCH: Thank you. Appreciate it.
9 MR. CURRIER: Sure.

10 CHAIR SMITH: Franklin, please go ahead.

BOARD MEMBER QUARCOO: Yes. If I heard it correctly, you said OMRI is not in favor of the revision of the TR templates when it comes to excluded methods. Can you expand on that a little bit more?

15 MR. CURRIER: Yeah. So there's a few things here. 16 One is just practicality of getting the information that we 17 would need to get in order to answer questions about the use of excluded methods. We're talking about brand-name products 18 19 usually instead of large classes of materials, and the 20 proprietary nature of this makes it hard to get at the 21 questions that we would imagine would be asked in a TR 22 template.

There is the decision trees that I mentioned just now in regards to how excluded methods definition applies to input materials. And the way that that definition is written, it is 1 -- in our opinion -- very much based on looking at food and 2 final food and the production of food rather than input 3 materials. So there's that challenge that we see in that being 4 a great area in regards to how to apply that definition to 5 inputs.

6

CHAIR SMITH: Brian, please go ahead.

7 BOARD MEMBER CALDWELL: Yeah, thanks, Doug. On the 8 issue of inerts, basically it sounds like one of your arguments against listing inert materials individually is it would 9 10 overwhelm the work that the NOSB has to do. But it seems like from our initial kind of delving into things, that we're 11 12 talking about maybe 150 or so materials that are currently in 13 use, roughly, and that those can be -- some of those anyways --14 can be grouped.

And so, it seems to me that, I mean it's -- I'm not totally psyched about having more sunset reviews, but that is spread over a five-year period. It doesn't seem to be unmanageable to me, and I'm just wondering if you could kind of chime in on that and just explain why that might be unmanageable.

21 MR. CURRIER: Well, I think your perspective as a 22 board member is important here to answer that question but it 23 would seem that it could lead to an unmanageable system. So 24 that's our concern is that it's going to overwhelm the Board, 25 but if the Board is thinking differently, that is great to 1 hear.

10

It seems that there's a potentially heavy lift to get a National List amendment, and having the sunset reviews could or should, you know, be manageable. But I really take your point about spreading things out, and if that's possible, then yes, that should be part of the system.

BOARD MEMBER CALDWELL: Great. Thanks a lot, Doug.
Really appreciate it. You guys are the experts, so we want to
hear it.

CHAIR SMITH: Allison, please go ahead.

BOARD MEMBER JOHNSON: Thanks, Doug. Really
appreciate you being here and taking the time to put together
all these detailed comments.

14 I wanted to loop back to the TR template, and I'm 15 kind of puzzling over why the excluded methods questions seem to be pretty different to you from other materials, and you 16 mentioned in response to Franklin's question that a lot of the 17 materials are proprietary, but you'd be preparing TRs about 18 19 generic listed materials. So could you unpack that a little 20 bit more for us? I'm sort of like having trouble following the 21 thread.

22 MR. CURRIER: Yeah, so I think that, yes, these are 23 generic materials. Depending on how the template is revised, 24 it could mean that we need to go out and figure out how things 25 are made -- I mean how these products are made at any time

174

1 ever. So I'm not saying that right, but it's like expanding 2 the scope so that we're needing to think about individual 3 products and how they might be manufactured.

4 I think the Vitamins TR in particular was helpful 5 because there was, you know, it was uncovered and put into the TR about certain classes of vitamins used in livestock 6 7 production that are exclusively made using excluded methods. 8 So I think that is an example of how it could work, but the 9 aspect figuring out how things are made is just -- it seems 10 unreasonable. It seems unsustainable, you know, to try and go out and find that information out. 11

12 So I think that it works to some level. You know, 13 vitamins is a good example. Some other microbial products are 14 perhaps something that could be lumped in as a group. But, 15 yeah, beyond that it gets really challenging.

BOARD MEMBER JOHNSON: I'm still having a hard time wrapping my head around this. I really rely heavily on the process sections of the TR, and oftentimes we say, okay, there are five different ways this material is made. This is the first way, this is the second way. And sometimes there are even gaps in information, and the TR says, you know, we couldn't find any more detail about X, Y, Z.

And is it that you just have to sort of like unknow things that you know through OMRI'S certification of individual materials or like would it be possible to just say we looked 1 into this, we ran up against a proprietary roadblock here. And 2 just that information even would be helpful for the Board to 3 sort of know there's some uncertainty or some digging that 4 could be done there.

5 MR. CURRIER: Yeah, I think that the main concern 6 here is confidence in that we are answering the questions as 7 presented, and once you hit that proprietary wall, it's going 8 to be hard. And that could be a finding in itself, you know, 9 and put that in the template -- sorry, in the TR. But, yeah, I 10 think we're just leery of the scope that we might be asked, or 11 whoever is doing the report writing could be asked to meet.

CHAIR SMITH: Mindee, please go ahead.

BOARD MEMBER JOHNSON: Thank you so much, Doug, for all the work OMRI does and how you've helped us with the TRs in general. I'm so impressed as a Board member with the work that you guys do on the TR template.

17 MR. CURRIER: Thank you.

12

BOARD MEMBER JOHNSON: So, much gratitude for what we're all up against in the land of transparency, living under this USDA label and making these long requests for transparency, and know that so much of what you do at Material Review is helping us, and especially with the work on the TR template. So please do extend our thanks to your team. And sort of tracking back to Amy's questions on

25 inoculants, I thought I heard you say that if there was an

1 excluded methods indication in an inoculant question, you would 2 ask more questions.

That is right. Yeah. So asking the 3 MR. CURRIER: question and getting that answer is something we do for all of 4 5 these products that we're reviewing. Depending on what they 6 come back with, though, we take it through our decision tree. 7 So, yeah, it's -- yeah, it's --8 BOARD MEMBER JOHNSON: Yeah, I don't know, I just wanted to sort of appreciate the difficulty of the chicken and 9 10 egg and asking more questions, and that that's sort of what we're up against right now, and appreciate you in the 11 12 conversation. 13 MR. CURRIER: Okay. Thank you. 14 BOARD MEMBER JOHNSON: Yeah. 15 CHAIR SMITH: So it looks like I have a question from 16 Wood, and then I have one, and then we'll see what's next. Go ahead, Wood. 17 18 BOARD MEMBER TURNER: I just wanted to ask a 19 question, because I do think something you just said about, you 20 know, kind of the effort to sort of understand in more complexity related to specific products and sort of all the 21 22 things that we're being asked to evaluate relative to the 23 National List. 24 You know, and one example that I wanted to -- I'd 25 love to get your thoughts on, I mean we talk all the time about

the role of mining in capturing materials that are used in organic, and I never feel comfortable with the level of review that we get from TRs, that we can gather from the community related to the mining impacts globally from capturing information that goes into products that we use in organic.

6 But it's still a question that we ask. It's still a 7 question that we want to understand. We want to try to push to 8 understand more fully what's actually going on. And the community knows that we constantly acknowledge mining impacts 9 10 and often continue to keep those products on the National List because of their essentiality in organic for a variety of 11 12 different reasons. And I guess for me that analogy is an apt one because I sort of feel like it's a similar type of question 13 14 to what we're trying to include as we think about sort of more 15 deeply useful TRs, and I'm just curious if that resonates with 16 you at all.

MR. CURRIER: It does. And, you know, transparency is absolutely critical to the work that we do. And so this idea of not asking the question for fear of not really knowing what to do with the information we get back may not be valid in the long run.

But I think that one thing we haven't talked about yet is the gray area in regards to inputs and how the excluded method definition applies to those inputs, and that's just another complication of diving into excluded method use with inputs. You know, it's going to be hard to get the information, what do you do with it in regards to that gray area around inputs. And so on one hand, I absolutely understand, you know, ask the question and get at it that way. It's just this preparation for what to do when you get some answers.

BOARD MEMBER TURNER: And my only point is we don't nearly know enough about mining impacts globally in every single case to really fully understand how to make those decisions either, and we have to ask those questions. So I appreciate that.

12

13

MR. CURRIER: Yeah.

CHAIR SMITH: Go ahead, Franklin.

BOARD MEMBER QUARCOO: Yeah. Coming back to the same 14 15 issue, if you look at it from other angles, I understand not 16 wanting to ask questions to which you don't have an immediate 17 response when you do get the answer. But looking at it from a consumer's point of view, to think that somebody is refraining 18 19 from asking questions because they wouldn't know what to do 20 with the answers if they are not the favorable kind of answers 21 that is expected, that doesn't feel good for that to be a 22 reason for not asking the questions, from the perspective of 23 the consumer.

If you are on all the other sides of the table, it sounds like a good reason, but as a consumer, that doesn't feel 1 like a great reason not to ask the questions, especially in the 2 kind of group in which we are today. We are thinking about the 3 environment. We're thinking about public health. We're 4 thinking about refraining from asking these questions. It 5 doesn't feel right.

6

22

CHAIR SMITH: Thanks, Franklin.

I mean, my question -- so number one, change is hard, right? So if this happens, it will take some getting used to, and that's okay. And I think for better or worse, you guys did a bang-up job on these last round of TRs, and they might have taken longer, but maybe you shot yourselves in the foot a little bit. I don't know.

But we got a lot of useful information, and you're right. I don't think we have all the answers of necessarily what we're going to do with that. And I think that's okay, and we're not, you know, I think we're going to continue to like peel the onion layers and get more answers and ask more questions.

Anyway, so my question is, I mean excluded methods verification or the big three verification, really, is applied to National List materials all the time, is it not?

MR. CURRIER: Yes, yeah. Definitely, yeah.

23 CHAIR SMITH: Okay. So maybe we need to talk more 24 about like the gray area. The other thing is maybe just more 25 clarity around, you know, we've been talking a lot about 1 fermentation and the Board digging into that more. Would that 2 be helpful? Like is that where a little bit of the grayness 3 lies?

MR. CURRIER: Well, yeah, I think what we found with the Inducement of Genesis TR, the citric acid enzymes, microorganisms, that the excluded methods definition is very much written with plant breeding in mind, so that is one observation we had.

9 And so, yeah, I think microorganisms are definitely
10 high risk for being produced via excluded methods. So perhaps,
11 yeah, you know, beefing up the sort of understanding of those
12 methods could help by way of the excluded methods definition.

13 CHAIR SMITH: Yeah. Okay. Thanks, Doug. I'm sure14 we will continue this conversation.

15 MR. CURRIER: Okay.

16 CHAIR SMITH: Okay. I'm hearing we do not have 17 Adele.

Adele Durfey, are you on the line?

19 (No response.)

18

25

If no Adele, then we'll go to Jess Alger, I'll circleback for Adele, then we'll take a break.

22 Do we have Jess?

MS. ARSENAULT: He's on the line. I'm thinking he might be muted. Happens.

BOARD MEMBER POWELL-PALM: He says they're -- oh

1 there we go.

CHAIR SMITH: Yep. Okay. Jess if you could stateyour name and affiliation, then you can get started.

MR. ALGER: Hi there. I'm Jess Alger, Stanford, Montana. I raise cattle and grain. I'm a member of the MOA, which is Montana Organic Association, and the Montana Organic Production Co-op, and I'm also on the Board for National Farmers Organization for organics. Well, they sell other things too.

10 I'm here today to support using testing as a tool to level the playing field when it comes to imported organic feed 11 12 And as a farmer with someone with a lot of organic grains. friends, the situation in conventional imports floods the 13 14 organic market, and that's not good. Europe and Canada test our products, and we don't test theirs much. So I know there's 15 16 been some other people talk about organic testing, but we need to do that. 17

If USDA mandated that imported grain be tested, it 18 19 seems like the playing field would be a whole lot more fair. 20 Right now, good organic farmers in the Midwest are having 21 trouble because of these -- they're leaving organic because of 22 the low grain prices. They're good farmers, and their competition is not fair right now. Testing imports will be one 23 24 way we can help ensure organic grain is legitimate, and the market is fair for those farmers putting in the work for 25

1 organic.

2	I also hear that, well, on a side note, the cooking
3	oil is coming in from China and making the soybean market fall
4	off, so that's not good. I feel if you had an announcement to
5	the companies, to the countries, that we're going to actually
6	start testing these grains, that might even help. They might
7	say, oh, I guess we better not send the conventional market.
8	So announcements should be made for testing grains, and then we
9	should start doing it. They're bringing conventional grain
10	into the U.S. and killing our organic market with imported
11	grain. So I guess that's all I have, I guess. Thank you.
12	CHAIR SMITH: Thanks so much, Jess. It looks like
13	you have a question from Nate.
14	BOARD MEMBER POWELL-PALM: Thanks for joining us
15	today, Jess, and for your work, supporting organics as a farmer
16	and on all those boards.
17	You were mentioning just the level playing field.
18	Again, I think we've heard a lot from folks saying we want a
19	fair shake at this thing. And could you speak to the
20	opportunity that you see organic for all of those different
21	farmers who aren't getting a crack at it because of unfair
22	competition do you see organic as having a huge potential to
23	grow in the States if we had a level playing field?
24	MR. ALGER: Yes, I do. The NFO has got an organic
25	grain buyer, and he's finding a lot of problems. And if a lot

of people would, I think, sell more, especially grain, to the 1 organic world, I think it would work. 2 BOARD MEMBER POWELL-PALM: Super appreciate that. 3 Ι was thinking about the organic transition initiative. 4 I think 5 these sort of questions are top of mind. How do we make a 6 marketplace for folks to transition into that treats them 7 So thank you so much for your time to comment to us right? 8 today. 9 MR. ALGER: Thank you, Nate. 10 CHAIR SMITH: Okay. Adele, are you here? Did we 11 find Adele? And then you're going to have to star six. 12 MS. DURFEY: Hi. Can you guys hear me? 13 CHAIR SMITH: Yes, we can. 14 MS. DURFEY: Oh, lovely. Okay. I got you. 15 CHAIR SMITH: You can state your name and Yeah. 16 affiliation, and then you can get started. MS. DURFEY: 17 Sounds good. My name is Adele Durfey, and I represent Clear Frontier, and we have a large number of 18 19 partner growers, mostly based in the Midwest, and a lot of them 20 are organic. And I wanted to comment on increasing the testing 21 requirements for organic commodities that are imported from 22 abroad. 23 So I missed part of the last speaker because I'm just 24 dialing from my phone, but I think I've heard some other 25 reiterations about increasing our stringency and the integrity

1 of kind of the market and what we bring in. And so I'll just 2 kind of circle back to one of the questions that you had just 3 posed for the last speaker.

But the reason why that I wanted to touch on this topic is that I spent a lot of time working internationally, specifically in the country of Ukraine, and also consulting in various countries in the Eastern Bloc, and we ran a very large operation, six to seven various types of row crops in Western Ukraine, and at that point in time, GMO was banned in the country.

But much of the soybean and the corn produced there was -- it really was GMO corn and soy. And although it was labeled as non-GMO, any testing could easily be circumvented by strategic testing, bribery, or probably both. So I'm not good to admit or not admit if our company actually participated in some of that, but it was very prevalent.

17 So it has been now nine years since I've been in Ukraine, but just speaking with former colleagues and current 18 19 farmers there and friends, nothing much has really changed. 20 And even the USDA has come out with a report that they estimate 21 that 50 to 60 to 65 percent of soybeans produced in Ukraine is 22 So I'm just talking about specifically Ukraine and GMO. circumventing GMO regulations, but if it's just that easy for a 23 24 non-GMO producing country to produce that much GMO products, 25 you can easily see the parallels in playing with organic

1 certification, right?

So I guess what I'm saying is that there's no serious repercussions in the U.S., that the U.S. can impose on foreign producers that mirror what we're doing here. So the next best steps, in my mind, would just be to increase the required testing once it hits U.S. shores, and it needs to be controlled by U.S. regulators.

8 So it wouldn't matter the producing countries or 9 which port it went through or how many times it changed hands 10 or where it was traded and what labels were put on it ahead of 11 time. Once it hits the U.S., we do our own testing, and I 12 think that we need to increase not just the volume of testing, 13 but the breadth of the contaminants as well. So that's just my 14 comments I wanted to say on that.

And I think there's been some previous comments about 15 16 how this impacts U.S. growers, and in conversations with what I've spoken with other growers, this year alone we have 17 individuals that are taking soy production out of organic and 18 19 putting it back into conventional just because the math doesn't 20 work because it does take a lot more time and input 21 requirements to get that done. So, yeah, that's my comments. 22 Thank you.

CHAIR SMITH: Thanks so much, Adele. Hang tight. Itlooks like you have a question here.

25

Wood, please go ahead.

1 BOARD MEMBER TURNER: Hey, Adele, thanks for the 2 feedback and the commentary. I really appreciate you calling 3 I just want to say that the value of that practical in. 4 experience on the ground, really detailed sort of real-life 5 experience about what's actually going on is super useful and 6 super helpful. So I really appreciate you taking the time to 7 call in. Thank you.

8 MS. DURFEY: Yeah. Thank you.

9 CHAIR SMITH: We've got another question from Amy.
10 Amy, please go ahead.

VICE CHAIR BRUCH: Yeah, Adele, thanks for joining us 11 12 today and contributing to the conversation. I know you mentioned you were a part of a farming operation in the 13 Ukraine, and it was conventional. I'm just curious from a P&L 14 15 standpoint -- profit and loss -- conventional production in the 16 Ukraine, how did that compare to cost of production in the Was it pretty similar for conventional to grow like a 17 U.S.? bushel of corn or a bushel of soybeans? 18

MS. DURFEY: Yeah, so the direct input, like the seed, a little bit lower, just because we know that it's a poor country essentially, so all of the big marketing seeds that are not produced in Ukraine that are shipped from the U.S. and Europe would come in in line, maybe a little bit lower in terms of production, fertilizer, but at a very small degree, production costs. But the biggest piece was the labor. So we had a, you know, you might pay somebody maximum \$5,000 a year to work on a farm. You can't do that here in the U.S. So I mean that's anywhere from \$300 to \$500 a month, and that's where a lot of costs.

6 Typically, you know, on an organic operation, you do 7 need to have a little bit more labor than a conventional farm. 8 So I think it's very difficult to compare and say that it's 9 fair to get products from abroad which you can't really 100 10 percent be certain that it is organic and produced by the regulations that we have here in the U.S. 11 I think it's a 12 little unfair to look at it like that just because also of the, 13 you know, the positioning of the input costs and such. So does 14 that answer your question?

15 VICE CHAIR BRUCH: Yeah, it does. And then a quick 16 follow-up. Just from an agronomic standpoint in the Ukraine, you know, labor is definitely when you're doing organics, labor 17 is important for hand weeding, but labor can't really take care 18 19 of disease and insects. What was the disease and insect 20 pressure over there in Ukraine, maybe comparatively speaking, 21 to the Midwest?

MS. DURFEY: Oh, yeah, so in a large portion of Ukraine it is -- in the western part where we were farming, there was a lot of weed pressure. We had a lot more rain, and weed and insect pressure. So we would have -- we'd be able to grow wheat, barley, your cereals, your oilseeds, your canola, your rapeseed, soy and corn, and that was kind of our rotation in buckwheat.

And so the pressure that you would incur was quite significant. If you would look at our crop plan, we would have several different strains of insecticides, herbicides, and also defecation because of the wet weather you would have Roundup.

And that is something that's very quite common. Even as you move more east into the more arid and drier regions, there was a lot of defecation that was going on with either 2,4-D or Roundup, right before, you know, 10 days, 2 weeks before you take the crop off.

So it's very common practice. People are trying to hit yields there. They aren't really trying to get a certification for a specific organic market because there really isn't one established in Ukraine.

17 VICE CHAIR BRUCH: Thanks, Adele. I appreciate that.18 CHAIR SMITH: Nate, please go ahead.

BOARD MEMBER POWELL-PALM: Adele, could you tell us a little bit more about what S2G's strategies focuses on as far as deploying capital for organic farmers?

MS. DURFEY: Sure. We don't actually deploy capital for them. Our kind of -- well, okay, so I'm not here representing S2G.

25

BOARD MEMBER POWELL-PALM: Okay.

MS. DURFEY: We are a portfolio company, so I can't really speak -- so I think there are some other avenues that they pursue in terms of helping organic producers and growers all across the U.S., so I can't really speak to that. But in terms of --

6

7

BOARD MEMBER POWELL-PALM: Hold it right there.

MS. DURFEY: -- well, okay, Nate.

8 BOARD MEMBER POWELL-PALM: I was just going to follow up where we've had a lot of questions about like what is 9 10 limiting the growth of organic and the entry of new farmers And it sounds like, if I'm hearing you right, 11 into organic? 12 it's really an unfair market that we're having farmers possibly transition into. And so things like access to land, the 13 paperwork for certification, all kind of come second it almost 14 15 seems like to this problem of having a market that will 16 actually reward organic growers. Am I missing something there?

I think you hit the nail on the 17 MS. DURFEY: No. I think if there was a reward for people, a larger 18 head. Yes. 19 incentive right now for people to transition, they would do it, 20 and they could easily take on the paperwork and understanding how to actually execute the operations. 21 Yeah. I think those 22 become secondary to the incentive, really, because it all comes 23 down to can you make a living for your family. So if you 24 can't, then you're going to do it a different way. Yeah. 25 BOARD MEMBER POWELL-PALM: Really appreciate your

1 comments today. Thank you. 2 CHAIR SMITH: Thanks for being with us today, Adele. We are at break time. We're going to come 3 Okay. 4 back at 10 after the hour. We are an hour behind, everybody, 5 so Board members, pithy, pithy. Up next is BJ McNeil, Charles Smith, and Annette 6 7 Cook. See you at 10 after. 8 (Recessed at 4:00 p.m.; reconvened at 4:10 p.m.) 9 CHAIR SMITH: Welcome back, everybody. We are going 10 to try to make up some time here. So we're going to get started with BJ McNeil. 11 12 Hi there. You can state your name and affiliation. 13 Oh -- it looks like when you said hi, I could not hear you. 14 Can you hear me now? MR. MCNEIL: 15 CHAIR SMITH: Yes, yes, yes. 16 MR. MCNEIL: Hi. My name is BJ McNeil. I'm an 17 organic grain farmer in Central South Dakota. And I have three things I want to talk to the Board about today, and I 18 19 appreciate the Board giving me an opportunity to speak. 20 I want to talk about the rollout by the NRCS on their Organic Management Practice Standard 823 and about the box 21 22 rollout of it. The other thing I wanted to talk about was the 23 flooding into our current commodity markets of imported grain. 24 And the third thing I wanted to talk about was what I feel are

some antiquated rules on organic crop production when we talk

25

about the use of micronutrients in an organic cropping system.

1

2 But for the sake of time, I really want to focus on 3 the importing of grain and how it's affecting us as producers 4 and us as an industry, too. It's not just affecting producers. 5 We still have approximately 25 percent of our corn in the bin 6 on site here that we can't get a bid for. Nobody's in the 7 market for it because there's plenty out there, plenty being 8 imported, and nobody will give you a solid bid right now on 9 delivery.

10 The second thing, we still have, I'm going to guess 50 percent of our soybeans in the bin, and we can get a bid on 11 12 soybeans, and we could sell them. However, the price we're being offered is below the cost of production. So we're just 13 14 kind of on hold hoping something happens in the market that allows us to move them. We also still have sunflowers in the 15 16 bin from 2022 production that we still haven't been able to They're still in our bin today. 17 move.

So the importation of grains has drastically affected 18 19 our operation. I believe some data I've seen up to 30 percent 20 of feed grains are imported currently in the U.S., and what 21 it's done to us is we've had to move some acres -- we've 22 chosen, I guess, to move some acres out of organic back into 23 conventional because the price being offered just wasn't 24 covering the cost of production. So we did. We've moved 25 probably 25 percent of our acres back into conventional

practices it's just for those economic reasons only. No matter how much we believe in organics and how much we want to do it, we still have bills we have to pay at the end of the day.

4 The other thing that I think is being overlooked in 5 this whole grain importation situation is the squeeze going on 6 to smaller feed mills. You have some larger corporations right 7 now who are controlling the majority of the imports into the 8 U.S., and when they're bringing in those large amounts of imports they're also setting the price on those imports. And 9 10 then they're going to these smaller mills basically and saying, hey, here's what you're going to have to pay for soybeans, and 11 12 if you don't like it you've got to buy U.S., but we know you can't afford to buy U.S. because you won't be able to compete 13 14 in the feed market. So the pressure is on these smaller feed mills. 15

16 CHAIR SMITH: Thanks, BJ. Any questions?17 Nate, please go ahead.

BOARD MEMBER POWELL-PALM: Thanks for your comments today, BJ. Could you speak a little bit more about the pressure you're seeing on small infrastructure, small feed mills, small thrust plants, and what you kind of see coming down the pipe for the effect on those pieces of the supply chain?

24 MR. MCNEIL: Well, I'm not going to use specific 25 names because I don't want to call anybody out. But I do know of a smaller feed mill, I believe it was in Missouri, that was bought out by a larger group simply because that smaller feed mill knew he could no longer compete with the extra use or the more imports that this larger feed mill was using. He didn't want to use the imports, however, he was being forced to do it.

And because of that, he couldn't deal with his local producers anymore. He was feeling bad not buying from producers he'd been buying from for 20 years. He didn't like the way he was looking. In a lot of ways, he didn't like the way he was looking in the community because the community was getting mad at him, you know, you're not giving me enough for my beans for cost of production.

And, of course, he's getting the brunt of that, but it's really not his fault. He has to compete against this bigger guy down the street that's importing all these beans and offering feed at a cheaper price. So he just wanted out of it. He was tired of the stress and just didn't want to deal with it anymore, so he sold to the larger mill.

BOARD MEMBER POWELL-PALM: Appreciate that. Thankyou.

CHAIR SMITH: Nate Lewis, please go ahead.

21

BOARD MEMBER LEWIS: Thanks, BJ. Can you briefly talk about the third topic you were interested in talking about, the micronutrients, and what you phrase as antiquated restriction? MR. MCNEIL: Well, yeah, because so we're trying to use less manure, trying to use less inputs, and do more. We don't want to spread manure all over our ground. I mean it's we do it, yes, but we don't have to do high amounts to hit certain yield goals or whatever where we're trying to grow certain types of production.

7 Where, with the use of micronutrients and other 8 inputs, we can foliar apply and decrease those amounts we have to broadcast over top of the ground and put out there where it 9 10 could get washed away, or we could have erosion issues, where wind issues with neighbors with the smell when you're putting 11 12 manures out, all those other issues they encompass. We can use micronutrients to go out there and have the same effect on the 13 14 crop and microdoses. So we're using extremely low doses.

The situation happened to us last year we wanted to put a molybdenum product, a Moly product, out on soybeans. This product went out 3 ounces per acre, and it was only 10 percent Moly, so 0.3 ounces per acre of Moly were actually going out over these acres.

And it wasn't a problem with showing low moly because that was on a test. The problem came that that product also contained some selenium and some cobalt. Trace amounts, though, just because I think it was natural. It came in on the mined product when they're making the Moly, so there's trace amounts in there. But because it just had those trace amounts of selenium and cobalt, they wanted us to prove that we were
 deficient in cobalt and selenium.

Well, you show me a lab in the U.S. that I can do a selenium test on my soil or my tissue. They're very far and few. Now, I did find one in Ohio months later that maybe we could have sent it to. But in the meantime, it cost us production. We weren't able to put the Moly out. We lost some yield on the soybeans.

9 And it just seems a lot of times it could use a 10 little common sense because the selenium and cobalt that were 11 in there would have been like putting a teaspoon full over a 12 football field. We're talking such small amounts here. It 13 just didn't make any sense to me. So that was really 14 frustrating for us.

BOARD MEMBER LEWIS: Yeah, I appreciate the context,and I thank you for that.

MR. MCNEIL: Yeah, I understand you don't want to go put 10 pounds of cobalt out some -- or 10 pounds out or a bunch of copper out or something, but I mean let's just use a little common sense when we're dealing with these things.

CHAIR SMITH: Allison, please go ahead.

21

BOARD MEMBER JOHNSON: Thanks so much, Bradley, for your comments. You may have partially answered this in your response to Nate, but I'm curious. You said there was about a 25 percent cost reduction in taking some of your fields out of 1 organic, and I'm curious if you could speak to the main cost 2 differences that you're up against, like where the savings are 3 in going conventional.

4 MR. MCNEIL: Well, in conventional the cost saving, 5 number one, is labor. And number two for us, it's about a push 6 on inputs whether we're doing -- because manure for us is 7 expensive. We're not in a huge livestock area, so if I'm going 8 to get the nutrients on my field, I actually have to bring those nutrients from several, almost 100 miles away, and it 9 10 costs a lot to get that up here. So my inputs on organic just in fertility and stuff are not twice, but probably 1.8, I'd 11 say, higher than in my conventional fields. 12

And the big thing, too, is on the conventional side, 13 because I was conventional, I still had some good yields on 14 15 there, so my insurance and those programs are actually a little 16 better and easier on the conventional side than the organic. So there was a whole host of reasons why we did it. 17 And we took out -- I mean, I'll be honest, too, we took out some of 18 19 our poor acres that were tougher to manage. We kept the easier 20 managing ones, the better fields in organic.

But it was those fringe fields where it was just, you know, whether it was heavy weed pressure, just lighter soil, or whatever the condition was, those hard to manage fields where you had higher inputs, higher labor, higher everything else, just weren't penciling, so we put those back into conventional.

1 BOARD MEMBER JOHNSON: Super helpful. Thank you. 2 CHAIR SMITH: Amy, please go ahead. VICE CHAIR BRUCH: Yeah, BJ, thanks for joining us. 3 Very sobering comments you provided us with. 4 I just wanted to 5 say thank you for participating in the process though. 6 One comment cycle, or two comment cycles ago, you 7 mentioned about crop insurance reforms and enterprise units by 8 practice, and exciting news that RMA had mentioned to us in our 9 last meeting that that was effective this year. So, yeah, I 10 wanted to just at least follow back and close that loop with 11 you. 12 So it's really good to use these channels to try to 13 make positive change, and hopefully we'll be able to make some 14 positive change on the other issues you brought up as well. 15 But thank you, and best wishes this farming season. 16 MR. MCNEIL: Thank you. CHAIR SMITH: 17 Thanks so much for being with us, BJ. 18 MR. MCNEIL: Thank you. 19 CHAIR SMITH: I am hearing that we don't have Charles 20 Smith. Is that true? 21 Charles, are you out there? 22 No, we don't see him right now. MS. HOLM: 23 CHAIR SMITH: Thank you so much, Andrea. 24 Moving on to Annette Cook, then we'll have Okay. 25 Erin Silva, and then Duane Myer.

You can state your name and affiliation and then get
 started.

MS. COOK: Can everybody hear me okay? CHAIR SMITH: Yep, you're good.

3

4

5 MS. COOK: Okay. Annette Cook, Secretary of the 6 Simmons Grain Company, Salem, Ohio. I want to first thank the 7 Board for giving me the opportunity to speak today.

8 My brother and I are third-generation family business 9 We are a 100 percent organic soybean processor. owners. We 10 believe in organic and what it means. However, we are at a time where if the NOP doesn't act swiftly, the seal could be in 11 12 irrevocable danger. This concerns me as an organic business owner and as a mom who relies on the availability and integrity 13 14 of organic products to feed my family.

We need better oversight on foreign production and imported product. Simmons Grain supports a measure for residue testing on all foreign imports. We need to implement not only pesticide testing on all imports but also full-panel solvent testing on any manufactured product.

The documents under discussion are only an aid to the current procedures, and less of an enhancement to the fraud prevention measures. The NOP 2611-1 does need additional review for pest or herbicides commonly found in the global supply chain. For NOP 2613, the document is great for raw commodities and any processed items that have established tolerances, but not all highly refined or processed products have tolerances, and how to handle those needs to be defined. A refined product cannot be treated the same as the raw commodity it was made from, which is the current course of action.

If the goal is to curtail fraud in the supply chain, we need to take a better look at three major points to be successful. First, we need to look at producer groups.
Producer groups were great in an immature and developing market where certification was cost prohibitive to small farms, and it helped them to gain access to the market.

12 However, the market has matured past this point. The concept of grower groups is absurd and has become a place for 13 14 harboring fraud. It is simply how the model is being used, and 15 the NOP is allowing it. Large foreign entities, potentially with domestic ties, are managing these and are able to 16 overstate yields, blend in conventional product, and accelerate 17 land transition, and the pure size of these operations allows 18 19 it to go undetected for years.

We can no longer change how these groups are regulated and need to simply remove the model. SOE requires that all steps of a transaction now hold a certificate, yet we allow this type of self-policing to take place outside of our borders, and we think it's enough. It's not. Each producer needs to hold their own certificate. 1 Secondly, we need to evaluate equivalency. The qoal 2 of equivalency is to allow the producers in those countries to 3 have more markets available without having to hold multiple 4 certificates. Currently, we allow products of other countries 5 to be directly imported into the U.S. under another country's 6 equivalency. This is a large loophole that needs to be closed. 7 Equivalency should be afforded to a product's country of origin 8 only.

9 Lastly, we need this mass balancing to take place 10 immediately. Right now we have countries exporting organic 11 products far and above their actual capacities to the U.S. Our 12 slow reaction to this alarming situation is detrimental all the 13 way to the domestic farmer. We try putting funding into place 14 for transition, but we can't promise these farmers that they're 15 going to have a place to sell their crops when they transition.

We're not doing enough, and we need more NOP boots on the ground to address this situation. The U.S. cannot continue to be the dumping ground for fraudulent products, and the rules need to be applied consistently and evenly. Thank you.

20 CHAIR SMITH: Thanks so much. It looks like, yes,21 you have a question from Kim.

BOARD MEMBER HUSEMAN: Hey, Annette, thank you so much for your voice today. I think this has been a great opportunity for the community to hear the lens of the organic crush plants and the facilities in the U.S. and the playing 1 field that we're on.

2 So my question to you is around producer groups. Do you have any data or understanding of what you think the amount 3 4 of imports are coming into the U.S. from grower groups? 5 MS. COOK: I do not, but I believe in a couple 6 speakers, like they will have more information surrounding 7 that. 8 BOARD MEMBER HUSEMAN: Excellent. Thank you so much. 9 MS. COOK: Mm-hmm. 10 CHAIR SMITH: Okay. Thanks so much, Annette. Thanks for being with us today. 11 12 MS. COOK: Thank you. 13 CHAIR SMITH: Next up is Erin Silva, then Duane Myer, then Jacob Golbitz. 14 15 MS. SILVA: Good afternoon, everyone, and thank you 16 NOSB for allowing me to make some comments this afternoon. I'm 17 in the Orlando airport, so I apologize if there's some sound behind me. 18 19 I'm a professor at the University of Wisconsin-20 Madison, working in organic and sustainable cropping systems, 21 and I've been working with industry partners on issues related 22 to organic curing powders for the last eight years. University of Wisconsin-Madison was recruited to bring together a team of 23 24 scientists and industry partners to look at the feasibility of 25 transitioning from conventional curing powders to organic

curing powders. So this transdisciplinary team of agronomists,
 horticulturists, meat scientists, economists, and industry
 experts put together a plan of work to move this issue forward.

4 The research conducted by the University of 5 Wisconsin-Madison and the University of Florida has demonstrated that organic celery and Swiss chard can be 6 7 produced with adequate levels of tissue nitrate using rates of 8 organic nitrogen fertilizers, more than what is used for standard table celery. These higher rates of nitrogen 9 10 fertilizers, to our knowledge, is also the case in the production of conventional curing powders and the vegetables 11 12 that are used as raw products.

However, these higher rates can likely be managed through cover cropping and other responsible ways of nitrogen application to minimize negative environmental consequences, although more research is needed to be confirming what are the best management practices depending on soil type, crop rotation, and specific environments.

While our research in two major production regions has generated recommendations for the appropriate level of nitrogen fertilizer needed in those environments, we still need to collect more data across working farms to validate these results, also across more harvest conditions as well, to optimize the timing of harvest of the raw product.

25

While organic sources of curing powders are now

1 available, specifically through Diana Food, concerns still 2 remain with respect to the feasibility of these sources as 3 meeting the entire organic meat processing industry and the 4 reliability of these sources over time since this is a pretty 5 nascent sector of the industry. These concerns include the 6 availability and consistency of supply as well as understanding 7 the season-to-season variability between sources for which, 8 again, we need further research.

Our current research has also investigated the impact 9 10 of organic curing powders on processed organic meat quality and food safety. This work conducted at University of Wisconsin-11 12 Madison has demonstrated that organic sources of curing powders produce equivalent food safety and quality parameters as 13 14 compared to conventional sources. However, more work is needed 15 in partnership with industry to optimize these formulas to 16 account for these novel organic curing powder sources, including Swiss chard. 17

To further scale up supply, more research is needed 18 19 to understand how to optimize the fermentation of organic 20 juices used to produce the nitrite that is actually used in 21 New technologies are being explored to produce curing powders. 22 high-quality, consistent product that is required by industry 23 using these organically lab practices. In addition to this 24 organic fermentation research, scaling up supply also requires 25 a continued assessment of transportation, processing, and

1 handler logistics to ensure consistent quality. So, in 2 summary, we're not ready to move on to a completely organic 3 supply chain at this point. CHAIR SMITH: Thanks so much, Erin. It looks like we 4 5 have a question from Allison. 6 Allison, please qo ahead. 7 BOARD MEMBER JOHNSON: Thanks so much, Erin. Ι 8 appreciate you doing this, especially at the airport. At least 9 you're not on a plane. Thanks for your dedication. You, I 10 think, summed it up there at the end, but so it sounds like we're potentially on track in five years to be there at the 11 next sunset, but we're just not quite there this time around. 12 MS. SILVA: Yeah, but I make some parallels to the 13 14 organic seed industry where we're still kind of working on 15 aspects of supply and demand, and certainly we've demonstrated 16 that this can be done feasibly, but we need to work with our 17 industry partners to make sure that transition is smooth and 18 they're not compromising issues with supply chain and product 19 quality. 20 BOARD MEMBER JOHNSON: Thank you so much. Great. 21 Nate, please go ahead. CHAIR SMITH: 22 BOARD MEMBER POWELL-PALM: I just want to say what a 23 gosh darn rock star you are for getting this all done in the 24 airport, so thank you for taking the time to talk to us. 25 Do you feel like there's -- I guess, if you were to

pinpoint the challenges that you've observed in your research, would you say they're more agronomic or more post-harvest supply, post-harvest handling that's the current barrier, and where would you see the industry investing most to make this a reality in five years?

6 MS. SILVA: Yeah, I think from the research that 7 we've done and going into some of the feasibility agronomics, I 8 think Swiss chard is actually something that could be used, and 9 again, in terms of mitigating environmental consequences, 10 almost like a cover crop.

But there's issues with Swiss chard in terms of the 11 12 stability of the nitrate within the tissue. So I think more research needs to be done almost with like the post-harvest 13 14 aspects, optimization of harvest time, and the stability of the 15 nitrates we're ensuring a consistent supply of raw product to 16 But, yeah, it's a little bit more of the postthe processor. 17 harvest side of things that we need to invest in at this point, as well as working more with our meat processing partners to 18 19 ensure that they have a smooth transition with the change in 20 raw product supply.

BOARD MEMBER POWELL-PALM: Thank you.
CHAIR SMITH: Wood, please, go ahead.
BOARD MEMBER TURNER: Erin, super helpful, both in

24 terms of the sunset review, but also in terms of just how we 25 think about applied research coming out of the research priorities that we articulate every year. And I'm just curious, you kept mentioning the need for more research, more research, and I'm sensitive to what Allison said about trying to get to that place five years from now where this is a slam dunk. There's no reason to sort of be dealing with this issue anymore.

7 So you mentioned the need for more research. Are 8 there enough researchers working on this? Do you feel like we're getting -- is this touching enough sources of good data? 9 10 I'm just trying to figure out how to -- I'm trying to figure out the efficacy of the research priorities and whether or not 11 12 there's enough funded research going on out there and whether there's enough people involved in this kind of work. 13 Because 14 the size of the industry is huge, but the organic meat industry is -- well, not huge -- getting larger, and we'd like to see it 15 16 The question is, we need researchers. qet larger.

17

MS. SILVA: Yep.

BOARD MEMBER TURNER: So can you talk at all about that connection between these two priorities?

MS. SILVA: Yeah, I mean the NOSB's priority list is extremely helpful for us at land-grant universities to justify our research, and this initial investment was a \$2 million grant from the USDA Organic Research and Extension Initiative. And I was just -- I'm flying back from that PD meeting where I was just presenting this research.

1 So the project team, some of the -- we brought on 2 additional people as the project evolved -- is very interested 3 in going back to that funding source to apply for more research 4 funds to expand and continue this research. And our industry 5 advisory group has been extremely helpful to refine our 6 research priorities over time and make sure that the applied 7 research is relevant to their needs and to go into their R&D. 8 So there is interest in the group and, again, 9 expanding more people as we understand where are the 10 bottlenecks, and we have to bring on more expertise, and going back to USDA and asking for even more funding to support this 11 12 So it's kind of an iterative process of finding the effort. right people as needs evolve and new issues arise, but 13 14 certainly those research priorities are extremely helpful. 15 CHAIR SMITH: Thanks so much, Erin. Such promising 16 Safe travels. news.

MS. SILVA: Thank you.

17

18 CHAIR SMITH: And Dwayne Meyer, you're up next. Then19 we have Jacob Golbitz, then Pete Kapustka.

20Duane, state your name and affiliation, and you can -21-

MR. MEYER: Okay. Can you hear me okay? All right. I'm coming to you as a producer. I just want to thank everybody that's on the Board for this opportunity to say a few things here. We run a father-son operation, two families. We're a small to midsize I would call, just corn grain -- corn and beans, oats, and we have several hog confinements that we use the manure for our nitrogen needs. Member of -- we certify with OCIA. And I've appreciated the time here just to listen as I've been on here. A lot of really neat things.

But my big thing here is we need a level playing field. I'm not against capitalism. I think that's the way it's meant to work. You've got to compete or find something else to compete in. I just feel like from the imports coming in that we're really struggling on that. That's obvious because of the pricing right now that we've got.

Just I feel like the testing needs to be done. I mean when we take our product to town or to the buyer, we're tested on every load, and if we're not tested on every load, they have a strategy there that they take care of -- they specifically, when we take our stuff, not just everything that everybody comes through, but our stuff.

So we're held to a high standard, and I feel like there's a lot of this coming in that has no standard at all. And just even by being here on this, you know, listening in, I've heard more that scares me worse than what I was when I came into this. So just -- I'm here to advocate for, you know, to take care of some of this fraud at the import levels and make a level playing field. 1 One of the guys, BJ I think, talked about the 2 micronutrients. That's a big thing in our operation too. 3 We've got -- that's another separate thing here -- but we're 4 really hamstrung with some of the micronutrients because we 5 have to prove that it's deficient in every category, and that's 6 a real, real high standard to do that.

7 So I think I don't have a whole lot more things here. 8 I don't mind competing. I just want to compete in a level 9 place. And I appreciate you guys and all the efforts that 10 you've put into this, and it's obvious to sit here all day long 11 for days at a time to listen to all this, that's a big 12 sacrifice. So I want to say thank you for that. That's about 13 all I've got for now.

14 CHAIR SMITH: Thanks so much, Duane. Any questions15 for Duane? Looks like Amy has one for you.

VICE CHAIR BRUCH: Duane, I was just going to say thanks for lending your voice to the process here and commenting. It's really important to do this, and I appreciate it. Thank you.

20 MR. MEYER: Thank you for being able to do this. I 21 appreciate it a lot.

22 CHAIR SMITH: Thank you for spending some time with23 us this afternoon.

Okay. Up next, we have Jacob Golbitz, then Pete
Kapustka, and then Audre Kapacinskas. Those ones were tough

1 for me.

2 Okay. Jacob, please go ahead.
3 MR. GOLBITZ: Am I good?
4 CHAIR SMITH: You're good.

5 MR. GOLBITZ: Thank you. My name is Jacob Golbitz. 6 I'm a director at Agrimeris. We're a consultancy involved in 7 research and reporting on production, trade, and legalization 8 of agricultural products, and we focus on organic identitypreserved and other specialized grains. And for the last 9 10 several years, we have worked with various stakeholders in the U.S. organic soybean supply chain to investigate pricing and 11 12 authenticity of imported organic soybeans and soybean meal.

Most recently, we've been looking at organic soybean and meal imports from Africa where much of the organic soybean production comes from small-holder farmers consolidated into entities referred to as producer group operations in the AMS and SOE.

18 The USDA's National Organic Program allows for the 19 certification of small producers outside the United States to 20 -- according to the language in the SOE -- help small overseas 21 farmers to access the U.S. organic market and enable handlers 22 to source products that are not produced in the United States. 23 Producer good certification is not limited to 24 products not produced in the United States however, and over

25 the last six years we have seen a dramatic increase in U.S.

imports of organic soybeans and soybean meal at prices undercutting domestic production, reducing demand for domestically produced organic soybeans, threatening domestic production and acreage, as well as domestic organic processing and crushing operations that produce soybean meal for organic livestock production and organic vegetable production.

7 Furthermore, while facets of the SOE rule, 8 particularly the requirements for the NOP export certificates and all trade intermediaries be NOP certified, will increase 9 10 the visibility of organic imports and create a paper trail in the investigation of potential organic fraud. 11 The issue of how 12 a third-party certifier can effectively authenticate the organic status of products grown by, in some cases, literally 13 thousands of smallholders within a single producer group 14 15 operation is not directly addressed by the SOE rule and likely 16 represents an Achilles heel in the process.

Keeping the U.S. organic supply chain plentiful and 17 diverse by facilitating certification and importation of 18 19 organic products not normally produced in the U.S., as well as 20 facilitating U.S. market access for smallholder organic 21 producers overseas, are both laudable goals. However, if these 22 goals are pursued at the expense of domestic production and 23 ultimately deprive American farmers the opportunity to 24 profitably grow organic crops, we risk losing hard-earned 25 organic acres and have traded these for dependence on

questionably produced and processed foreign production. We are asking that USDA NOP takes a close look at

3 producer groups, the criteria used to justify them, and how to 4 strengthen the rules that govern them so they can be considered 5 by Americans that U.S. invokes supply chain rather than threats 6 to American producers, processes, and the entirety of the 7 supply chain.

8

9

1

2

CHAIR SMITH: Thank you.

Questions for Jacob. I see a couple.

10 Kim, please go ahead.

VICE CHAIR BRUCH: Hey, Jacob. I really appreciate your lens and your comments today. I'd asked a question a little bit ago around the data of grower groups who provide import products to the U.S. Do you happen to have any numbers that would support that percentage?

MR. GOLBITZ: So I do have some numbers. So we imported 526,728 metric tons of soybeans. That's including actual whole soybeans and then soybean meal. The soybean meal in this number is expressed through the soybean group. Those were our total imports in 2023.

Of that 526,000-plus metric tons, according to our analysis, about 291,000 metric tons -- considerably more than half of that -- came from Africa. Now, how much of that out of Africa came from these producer groups, I do not have an exact number for that. However, that is the dominant needs of organic production from the countries that are exporting to the
 U.S. as far as we can tell.

BOARD MEMBER HUSEMAN: Thank you, Jacob.

CHAIR SMITH:

VICE CHAIR BRUCH:

Amy, please go ahead.

Thanks for all the work that went into the report that

Jacob, thank you for joining us

3

4

5

6

today.

7 you submitted via the written docket.
8 I have two questions for you. One was on your
9 comments that you submitted to the written document. You
10 mentioned availability of organic ag data is just minimal.
11 What types of ag data would you like to see in order for us to
12 provide more black and white information to solve fraud?

MR. GOLBITZ: Acreage. That's what I'd like to see.
I would like to know what the actual growing areas are.

VICE CHAIR BRUCH: Okay. Plain and simple. Okay
Sounds good, and I agree. We had an initiative -- acres on
certificates -- on board, and that was something that we really
strongly believe as well. We need transparency with the acres,
especially internationally. But, yeah, that's helpful.

20 MR. GOLBITZ: With acreage, we can pretty much figure 21 everything else out. That's really the black box from our 22 perspective looking into this and really gathering as much data 23 as we possibly can. That's what we need.

VICE CHAIR BRUCH: That makes sense. And another
 question, you know, in the United States -- and a lot of folks

have commented on this -- on robust rotations, robust rotations. When you were looking at the data internationally, the information you submitted was focused on Africa. Are you seeing that crop rotations are in the mix, or are you seeing constant soybean production on these acres that you're analyzing?

7 MR. GOLBITZ: Well, again, if we had better acreage8 data, we'd be able to answer that question.

9

25

VICE CHAIR BRUCH: Okay.

10 MR. GOLBITZ: What we have in the reported data are some wild soybean acreage that, you know, they don't look like 11 they're the results of the regular rotation. Of course, 12 there's a lot of turmoil and strife in some of the areas where 13 14 this acreage is, and that may be involved in utilization or even just reporting to get numbers out. The numbers that we 15 16 see vary so widely, it's really hard to make sense of it, and it's also hard to have confidence in the accuracy of those 17 18 numbers as well.

VICE CHAIR BRUCH: Thank you. I appreciate it.
 CHAIR SMITH: Franklin, please go ahead.
 BOARD MEMBER QUARCOO: I just -- I brought my hand
 down, so I'll pass for now.

23 CHAIR SMITH: Oh, sorry. I didn't see your hand go 24 down, Franklin.

Thanks so much, Jacob, for spending the afternoon

1 with us.

And we are going to Pete Kapustka and Audre
Kapacinskas, and then Kenn Jenkins.

MR. KAPUSTKA: Good afternoon. I'm Pete Kapustka, a 59-year-old, 50-year organic farmer and owner of Red Hill Organics, an 800-plus acre organic farming operation that operates in Minnesota and Wisconsin, but is based where I live in Fort Dodge, Iowa. My desire to farm organically is stronger than the distance that it takes me, obviously.

10 I grew up on a family farm and graduated from Iowa State with a degree in agricultural business. Following the 11 12 untimely death of my father in 1987, I took over the family farming conventional operation. After weather and cyclical 13 market factors, I exited my dream in 1992 and spent the next 28 14 15 years working with conventional farmers in co-ops, feed 16 businesses, and farm input companies, in positions such as sales manager, regional manager, and business development lead. 17 Some were multinational, some were startups, some were large, 18 19 and some were small. I observed management, and with a few, 20 even participated in defining the direction of the company.

In 2020, at age 56, I decided to again pursue my farming, but as an organic farming operation. I consciously, and against the advice and wishes of many, refused to follow conventional farming herd, and hence the name Red Hill Organics. I continue to push the pencil and manage my 1 operation as logically as I can.

2 I'm telling you all this in the hope that you 3 understand how and what I think of the current situation in the 4 organic farming world as I see it. The biggest concern my 5 operation faces is the lowering of the market price by the 6 flood of the fraudulent grains that everybody knows is going 7 Therefore, the USDA must implement a process of sampling on. 8 each and every imported load of organic grain that enters the United States market. 9

10 My experience tells me that it is a matter of time 11 when -- not if -- the organic-minded consumer realizes that 12 fraud that could be stopped does not stop for a variety of 13 reasons. The USDA needs to take all actions including, at a 14 minimum, testing each and every imported seed to prevent this 15 ongoing problem.

Brand and industry destruction is the likely outcome if we avoid this fact. Think of Anheuser-Busch and Bud Light, think of Planet Fitness, as the foreshadowing of what our industry would look like when informed consumers revolt, ruining all our business and personal interests.

By taking a strong and proactive position of testing each and every load, the USDA limits the damage at a minimum should fraud be disclosed. Without it, our industry would be faced with making only the best of bad decisions. How could you explain to a consumer why contamination occurred and you

1 know that you could have prevented the problem? 2 Think about this. How many individual farm 3 operations contribute to a contained shipment of grains? Is it 4 Is it a hundred? Is it a thousand? Can 1 in 20 loads ten? 5 could be tested as if they were domestically produced? It's an established fact that a minimum of five 6 7 percent of U.S. farm operations have an examination every year. 8 Additionally, during the annual recertification, all information necessary for domestic operations to be in 9 10 compliance needs to be available. 11 CHAIR SMITH: Thanks, Pete. 12 MR. KAPUSTKA: Access to our domestic markets is a 13 privilege, not a right. Shouldn't the consumer expect import 14 grains to abide by the same standards? Even if you believe 15 import market access is a right, all rights carry 16 responsibilities. To be clear --17 CHAIR SMITH: Okay. Pete, you're going to have to 18 wrap it up. I'm so sorry. You are over your time. I'm so 19 sorry. And we're running really behind schedule. So thanks so 20 much for your comments. 21 Does anybody have any questions for Pete? 22 Great, Nate, go ahead. 23 BOARD MEMBER POWELL-PALM: The pithiest of comments. 24 Thank you for that calculation question, Pete, of how many 25 family farms does one 30,000-ton ship represent? So I think

1 that's something to chew on. Appreciate your time today. 2 MR. KAPUSTKA: Thank you. CHAIR SMITH: Thanks so much for being with us this 3 4 afternoon. 5 And the next speaker is Audre. I'm so sorry. Ι 6 think I said Andre, and I even have my glasses on. 7 So Audre, please go ahead. 8 And after Audre, we have Kenn Jenkins, and then Kate Newkirk. 9 10 MS. KAPACINSKAS: No problem at all. Good afternoon. 11 My name is Audre Kapacinskas. I'm a principal at S2G which is a multistage investment firm focused on venture and growth 12 stage businesses across food and agriculture, oceans, and 13 14 We have a commitment to creating long-term measurable energy. outcomes, and we invest capital and provide value-added 15 16 resources to entrepreneurs and leadership teams pursuing innovative market-based solutions that are cheaper, faster, or 17 better than traditional alternatives. 18 19 As part of our mission, we are dedicated to 20 empowering farmers, including those who champion organic

empowering farmers, including those who champion organic practices. Our goal is simple yet profound, to provide the necessary resources for farmers to flourish and expand their impactful organic work. By providing access to capital, we help ensure that these farmers have the means to grow and thrive. We believe American organic farmers represent important innovation and progressive thinking, especially when
 it relates to soil health.

At S2G we recognize organic farming not just as a practice but an important part of the future of food production. We're supportive of farmers who choose to adopt organic practices as part of their environmental sustainability practices and way to maintain viable businesses. This helps sustain their livelihoods, families, and communities.

9 However, recent years have brought unprecedented 10 challenges to American organic farmers, from supply chain 11 disruptions to volatile crop prices. These dedicated 12 individuals who have invested heavily in mastering organic 13 farming now face incredibly turbulent times.

We at S2G, we envision a world where sustainability 14 encompasses consistency, where farmers perceive organic 15 16 agriculture as a reliable market with a level playing field. And despite criticism suggesting otherwise -- and as many folks 17 on the call today have mentioned -- organic farming does 18 19 undergo rigorous testing. And by elevating this aspect of our 20 industry and utilizing it to verify the authenticity of 21 imported organic products, we can ensure integrity and bolster 22 customer confidence. Transparent testing practices benefit 23 consumers and create more stable conditions for growers, 24 fostering a healthier and sustainable agricultural landscape. 25 We applaud the work that you all do, from working to

understand how we can use testing to keep illegitimate imports from crashing American organic markets, to building better markets that increase demand for organic, to highlighting how crop insurance can work better for organic farmers. The work you all have been doing is an important part of what we need to realize a stronger organic future. So thank you for all the work that you all do, and I'll give you 18 seconds back.

Thank you so much.

8

9

Nate, please go ahead.

CHAIR SMITH:

10 BOARD MEMBER POWELL-PALM: We appreciate those 18 I really appreciate that you brought up the consumer 11 seconds. in this entire discussion. A lot of it is we've been talking 12 about prices and how to make a level playing field. 13 But I 14 would say that -- and I was wondering if you would agree --15 that when you hear most podcasts about what is organic to the 16 layperson, oftentimes they say, I don't know because they don't And while that's not entirely true, it seems like we 17 test. could really bolster confidence if we tested more. Would you 18 19 agree with that as far just as an overall proposition, value 20 proposition?

MS. KAPACINSKAS: I would, and I think the fact that there's a regulatory framework that supports the organic standard is incredibly valuable, and I think there is a lot of confusion in the market at the moment given kind of varieties of claims that are currently available. BOARD MEMBER POWELL-PALM: Thank you so much for your comments today.

MS. KAPACINSKAS: Mm-hmm.

3

4

CHAIR SMITH: Jerry, please go ahead.

5 BOARD MEMBER D'AMORE: Yes, good afternoon, and thank 6 you for your comments. I listened carefully and maybe missed 7 it, but did you give any hint as to how you currently today 8 would look at partnering with an organic grain farmer?

9 MS. KAPACINSKAS: Sure, yeah, there's a variety of 10 So we have actually invested in a number of operations ways. that are currently operating organic and identity-preserved 11 12 We've invested in technologies that work closely with farms. growers, and in many instances the entrepreneurs that have 13 14 created those technologies, that have built those businesses, actually come from growing backgrounds, from producer 15 16 backgrounds.

And we're also involved in a variety of conversations that are focused on providing additional financing to growers to help them with adoption of some of these new technologies that do represent risk for them but that could potentially offer a more resilient path forward as it relates to more sustainable farming practices.

23 So those are just a handful of ways that we engage 24 with growers, but inherently everything that we do through our 25 funds, we will only be successful if the grower is successful, 1 so we care very deeply about them.

BOARD MEMBER D'AMORE: Let me ask another question,
if I may.

4 MS. KAPACINSKAS: Sure. 5 BOARD MEMBER D'AMORE: My question is -- and for 6 context, I'll ask you if you've been listening for the last 7 hour or so -- and if you have, then okay, that makes it easy. 8 Listening to the requests, the demands, the crying 9 out for an even playing field, which I actually agree with 10 entirely. I don't think there is one. So you as an investor, does that taint how you might look today at an organic grain 11 12 producer?

MS. KAPACINSKAS: Not necessarily. I mean it
 influences the market conditions that we assess because - BOARD MEMBER D'AMORE: Sure.

MS. KAPACINSKAS: -- we do see kind of the total volume of organic products that are available or organic commodities that are available to American markets, and that naturally influences prices that are able to be commanded by these various growers and producers.

But I think inherently we are believers in this framework, and even if prices are somewhat depressed because of some of the fraudulent products that are coming in, we believe very deeply that this framework is necessary and that this provides consumers with a more robust set of choices and a way to ensure that they are getting the food that they kind of align to in terms of their values and in terms of what they're seeking to do for their families and from a health perspective.

So I think, you know, does it influence us? Yes, because this is another input for us to understand the market and various market dynamics. This is a very complex global system. But we think that inherently there's value in this framework and there's value in American production.

9 BOARD MEMBER D'AMORE: Great. Thank you very much.
10 MS. KAPACINSKAS: Mm-hmm.

11 CHAIR SMITH: Amy, please go ahead.

I had a question similar to 12 VICE CHAIR BRUCH: So just with the interest of time maybe I'll just 13 Jerry's. 14 punt on this one. But thank you so much for lending your voice 15 to this conversation. And I think Jerry's right. We have 16 talked a lot of challenges, but you hit on an excellent note 17 about the belief in the system, so I think there's opportunity 18 here, too. So I appreciate it.

MS. KAPACINSKAS: Thanks for all the work you do.
CHAIR SMITH: Thanks for being my guest today.
MS. KAPACINSKAS: You're welcome.
CHAIR SMITH: Okay. I think we are not seeing Kenn
Jenkins.

24 So Kenn, if you are on the line, please make yourself 25 known. Otherwise, we will go to Kate Newkirk, then we have
 Skip Hulett, and then Anne Ross.

Hi, Kate.

3

4

MS. NEWKIRK: Hi.

5 CHAIR SMITH: Just, yeah, state your name and6 affiliation, and then you can get started. Thank you.

MS. NEWKIRK: Good afternoon. Kate Newkirk, International Organic Inspectors Association. I'm an IOIA accredited inspector. I hold a master's degree in agronomy from Virginia Tech. I've worked as a soil scientist and an organic inspector and have also worked in both research and environmental testing laboratories.

IOIA finds the instruction documents 2610 and 2611 13 14 inadequate to meet the testing requirements of 205.403(d)3 or 15 205.670(b) and (c). These two documents and their related 16 document, 2611-1, are specific only to pesticide residue 17 screening. They work very well for periodic pesticide residue testing. However, sampling and testing is a broader issue 18 19 across the four NOP scopes. Note that testing for glyphosate, 20 one of the most common herbicides, is a specialized test that is not a component listed in 2611-1. 21

IOIA believes that sampling and testing are risk specific. Sampling procedures are dependent on both the matrix being sampled and on the risk being addressed, whether a simple periodic pesticide residue sampling, a suspected prohibited substance application, or determining the extent of a drift
 event, et cetera.

Because sampling and testing are so widely varied and risk dependent, IOIA suggests that scope-specific best practices and SOPs be developed by certifiers in cooperation with the NOP, accredited laboratory personnel, and inspectors. Please refer to the testing criteria process flowchart outlined under additional comments in IOIA's written response.

9 IOIA strongly believes that training is needed not 10 only for inspectors but also for certifiers and reviewers. 11 Training should include laboratory accreditations and selection 12 of labs based on the test method needed. Note, tests for 13 pesticides, GMOs, antibiotics, microbiological, and solvent 14 residues all require either different laboratories or divisions 15 within laboratories.

16 Further training should include documentation and chain of custody requirements, selection of sampling 17 methodology, matrix-dependent sampling requirements, sample 18 19 refrigeration and shipping requirements, and finally 20 understanding and evaluating test results. Development of best 21 practices and SOPs as well as training will go a long way in 22 verifying organic practices, fostering consumer confidence, and supporting successful legal challenges in cases of fraud. 23 24 Please note that sampling and testing requires additional time 25 and effort by onsite inspectors, and they should be compensated

1 accordingly. 2 Thank you for your time and attention, and I'll 3 answer any questions you may have. 4 CHAIR SMITH: Thanks so much, Kate. Any questions 5 for Kate? Looks like you have one from Nate. 6 Nate, go ahead. 7 BOARD MEMBER POWELL-PALM: I wish it were a question, 8 but I've waited probably two days now to hear what you just 9 said, that inspectors are on board, and we can do this, and 10 that is a vote of confidence I really appreciate. 11 MS. NEWKIRK: You're welcome. BOARD MEMBER POWELL-PALM: So thank you for your time 12 13 to speak with us. 14 MS. NEWKIRK: Thank you, Nate. CHAIR SMITH: Thanks so much, Kate. Appreciate your 15 16 comments. 17 MS. NEWKIRK: Okay. We did have Kenn Jenkins. 18 CHAIR SMITH: Okay. We 19 just didn't get him unmuted in time, so we're going to go back 20 Then we're going to go to Skip Hulett, and then to to Kenn. 21 Anne Ross. 22 So Kenn, are you with us? 23 MR. JENKINS: Yeah. Can you hear me now? 24 CHAIR SMITH: Yes. Sure, can. 25 MR. JENKINS: Okay. Perfect. I'm Kenn Jenkins, and

I'm a certified crop advisor working directly with organic farmers focused on traceability. Our network represents organic farmers and processors across 10 states. We believe the biggest threat to organic producers and the credibility of the organic field is fraudulently imported grain, and we believe the only way to stop fraudulent grain is through residue testing of every load.

8 In the U.S., we are losing organic farmers faster 9 than they can be replaced. This is partly due to the fact that 10 the U.S. growers are being held to a higher standard than those 11 outside of our borders, or those transporting questionable 12 grain.

13 The U.S. can supply more organic grains, but the incentives to do so have been jeopardized. All the farms we 14 15 work with can trace each load right back to the field and the 16 seed used to grow the crop. They go through a transition 17 period where they are likely to break even or carry debt. They battle weeds through tillage, rotation, and walking fields to 18 19 get the highest quality and cleanest grain, yet imports without 20 the same level of traceability are too often accepted without 21 the same scrutiny.

There is a lack of oversight and control in these developing nations that seem to outproduce the U.S. in smaller amounts of acres and with less technology. There are major websites regarding where the USDA should be focusing on 1 enforcement but for some reason choose to ignore it.

When the USDA audited India, India lost their organic recognition agreement. We saw a major drop-off in Indian grains being imported, but we also watched those bushels come out of Togo the next year. Why would the USDA not automatically investigate the surge in those operations? Why are we accepting grains from one of the poorest nations in the world where there is a huge food insecurity issue?

9 When the organic standard was still private-sector, 10 the fear to letting the USDA get involved would be all the red 11 tape and trade agreements that would hurt the industry, but the 12 industry decided to turn it over to the USDA because there was 13 a belief that the USDA would protect the label and strengthen 14 enforcement of a government program.

In recent consumer surveys discussing the trust in labels, the USDA organic label was still the most trusted, but trust has been declining from the previous survey. The only way to protect the label's credibility and trust, along with protecting the hard work that our organic farmers give, is to test all the grains at the ports for prohibited residue prior to acceptance.

In our network, all the farms say the same thing. We do not mind competing as long as it's a level playing field, which we've all heard today many times over. Everybody in a bad actor supply chain is financially profiting from

1 fraudulent, organic grain. Everybody outside of that chain is 2 financially hurt by it. Thank you for the work you're doing, and I look 3 forward to seeing the progress on imported fraudulent grains. 4 5 CHAIR SMITH: Thanks so much, Kenn. 6 Any questions for Kenn? 7 (No response.) 8 CHAIR SMITH: I'm not seeing any. 9 So, appreciate your being with us today. Thanks so 10 much. 11 MR. JENKINS: Thank you. 12 CHAIR SMITH: Okay. We have next up Skip Hulett, 13 then Anne Ross, then Megan Vaith, although I was told we 14 couldn't find Megan. 15 So Megan, if you're there, please chat in. 16 And, Skip, you can state your name and affiliation and then get started. 17 Thank you. My name is Skip Hulett. 18 MR. HULETT: I'm 19 Vice President and General Counsel at NatureSweet. NatureSweet 20 is an original member of the Organic Produce Association, so I'm speaking today on behalf of OPA. 21 As an organization dedicated solely to representing 22 the organic produce industry, OPA strongly supports the work of 23 24 NOSB and the National Organic Program as they support a growing 25 and changing organic industry. Our members who are leading

1 figures in the organic produce industry are committed to 2 ensuring steady supply of sustainable, nutritious, and 3 affordable organic produce to meet the demands of consumers. 4 This commitment includes embracing relevant technological 5 advancements and innovation while upholding the rigorous 6 organic standards set by the USDA.

7 So OPA supports USDA's efforts to assist producers as 8 they transition to organics. OPA members have grown organic produce both in ground and in controlled environments for 9 10 decades. And, as you know, currently produce operations wishing to transition from conventional to organic production 11 12 must undergo a three-year transition period to ensure the absence of prohibited substances. And as technological 13 14 advances continue, this three-year transition period is often not reflective of all production methods, some of which 15 16 inherently have never introduced prohibited substances.

So we believe that all growers should be provided 17 with an option to test out of the three-year requirement if all 18 19 other applicable requirements have been met. To that end, we 20 support an option for all growers to be allowed to apply for 21 and receive an organic certificate with no waiting period if 22 they can demonstrate adequate organic soil health 23 certification, meet an approved soil testing standard, or an 24 alternative if another growing media is used. 25

The test should be carried out by a USDA accredited

certifying agent to show no substances prohibited by the National List of Allowed and Prohibited Substances. As a precursor, USDA should begin work with the accredited certifying agents to provide guidance on soil testing procedures to certify that no substances banned on the National List are present.

7 This proposal works towards empowering growers to 8 transition more swiftly and efficiently. It also positions the 9 United States to capitalize on the growing demand for organic 10 products, strengthening our economy through increased 11 agricultural output, job creation, and competitiveness.

While OPA understands that this proposal would be a significant shift within the NOP, we also believe that to truly foster a more inclusive, diverse, and equitable organic sector, NOP should consider ways to break down all barriers to organic transition, including the transition period where it's appropriate.

In closing, OPA would like to thank the NOSB as well 18 19 as the NOP for all the dedication and work on behalf of all 20 organic producers, and we certainly look forward to working 21 together to continue efforts to address all barriers to organic 22 transition and production, including any future work on 23 container standards and other issues. So thank you very much. 24 CHAIR SMITH: Yep. Thanks so much, Skip. 25 Any questions for Skip?

1 (No response.) 2 CHAIR SMITH: I don't see any. Thanks so much, Skip, for your comments and for being 3 4 with us today. 5 MR. HULETT: You're welcome. 6 CHAIR SMITH: Okay. Up next, we have Anne Ross, and 7 then Jaydee Hanson, and then Erin Levine. 8 You can state your name and affiliation and then get 9 started. 10 Hey, good afternoon. My name is Anne MS. ROSS: 11 Ross, and I'm an organic investigator for the Cornucopia 12 Institute and member of the policy team. I'd like to thank the NOSB members for their time here today. 13 14 I'll briefly address an issue you've already heard a lot about. We need immediate action to ensure that imported 15 16 organic grain is legitimate. Organic grain farmers continue to 17 tell us that they are experiencing declining prices, forcing many to consider whether they can continue farming. 18 19 The farmers we talked to are resilient, adaptive, and 20 They are accustomed to unpredictability, including innovative. market fluctuations, but the price pressures they are facing 21 now are getting far too heavy. And again, we must question 22 23 why. Again, we question whether the playing field is truly 24 level, given the volume of imported grain from countries whose 25 yield data just doesn't make sense. This is the same question

we've been asking for years now, and yet again, we are calling for mandatory testing of imports.

For example, how can Nigeria, Argentina, and Ghana average hundreds of bushels of organic soybeans per acre, where the data shows U.S. growers typically average significantly less? This can't be true.

7 SOE is supposed to improve supply chain traceability, 8 but we need verification that the traceability requirements are 9 working right now. We cannot stand by silently while the 10 market is flooded with grain that has not been thoroughly That's why Cornucopia supports legislative action, 11 vetted. 12 including those measures advocated by OFA and other groups. We have long called for and continue to support required testing 13 14 of every bulk shipment of organic feedstuffs arriving at U.S. ports. Imports entering the U.S. by truck and train should 15 16 also be tested.

17 If SOE is true to an intent to adopt a risk-based 18 approach, testing of every shipment of imported organic grain 19 feedstuffs should be mandatory. The numbers continue to tell 20 the story. If a single ship of cracked corn represents 21 millions of dollars, it's easy to see why verification is 22 critical given the market impact.

23 We know that the majority of organic grain imports 24 are arriving from countries where corruption is common and 25 infrastructure is poor. Logic demands we confirm the

1 legitimacy of these imports where a simple mass balance 2 analysis just doesn't add up. Consumers deserve to know that 3 food bearing the organic label is, in fact, organic. U.S. farmers need the level playing field they deserve. 4 5 Thank you for serving on this board. 6 CHAIR SMITH: Thanks so much, Anne. 7 Any questions for Anne? It looks like yes, one from 8 Nate. 9 Go ahead, Nate. 10 BOARD MEMBER POWELL-PALM: I just want to say thank you so much for your comments, Anne, and for the tone and tenor 11 that Cornucopia has taken to this issue. 12 I really appreciate 13 the consideration you're giving it. 14 CHAIR SMITH: Thanks so much for being with us, Anne, and for your comments. 15 16 Up next is Jaydee Hanson, then Erin Levine, Okay. maybe Albert Strauss. 17 18 Go ahead, Jaydee. You can say your name and 19 affiliation and then get started. 20 This is Jaydee Hanson. I am the policy MR. HANSON: director at the Center for Food Safety, and I will go ahead and 21 start. I want to urge you to begin doing some real work on 22 23 plastics. The FDA this week finally responded to our petition 24 to get PFAS out of polyethylene fittings for food. And since 25 2016, the Center for Food Safety has been asking the NOSB to

exclude bisphenol compounds, ortho-phthalates, and PFAS
 compounds from food and food contact substances. It is really
 past time to act on this.

I do understand that generally organics hasn't paid attention to plastic wraps on that, but we're having a huge problem with all of these chemicals, and they all -- in that list of bisphenols, PFAS, and ortho-phthalates -- have been found to be endocrine-disrupting chemicals.

9 In my opinion, in our opinion, plastics should be 10 banned by the NOP in many areas where they're ubiquitous and 11 already undermining the organics seal. Some of those are all 12 in the plastic sheetings in fields, and plastics getting into 13 compost, and PFAS and other plastics leaching from containers 14 into the products.

15 And I'll stop there, but I want to urge you to take 16 really seriously that these risks to human health and the environment are going to damage the organic label unless the 17 NOP begins to take strong action. And talk to the organic 18 19 growers in Maine who unknowingly put on their fields PFAS-20 contaminated sludge from years ago. And organic farms should 21 not be the next source of plastic pollution that shuts down 22 organic operations.

I don't know where I'm at in terms of my minutes, but if I have any time left, I would tell you that the next thing .-I don't have any time left.

1 No, just at the end there. CHAIR SMITH: 2 MR. HANSON: Okay. Thank you. CHAIR SMITH: But hang tight, Jaydee, because you do 3 have a guestion here from Brian. 4 5 MR. HANSON: Yep. 6 BOARD MEMBER CALDWELL: Jaydee, thanks a lot for 7 bringing this up in the virtual comments, the issue of 8 plastics. It's something that's really been weighing on my 9 mind a lot more in the last year. What I'm wondering about is 10 whether .. and this may be in your written comments, which I have not read yet, I apologize for that -- but the question in 11 my mind is, would the plastics industry be able to produce 12 plastics that would be functional the way we want them to be 13 14 without PFAS, phthalates, and bisphenols? MR. HANSON: 15 Yes. 16 BOARD MEMBER CALDWELL: Well, that's a good answer. 17 MR. HANSON: Yeah, I mean there are substitutes for virtually all of these chemicals. These were the easiest way 18 19 to do it at the time. 20 BOARD MEMBER CALDWELL: Okay. And we wouldn't get into that situation of just replacing one toxic with another 21 22 The replacements are actually, you know, known to be toxic? 23 benign? 24 MR. HANSON: For the most part. You know, they're --25 but I mean, we have a problem with organic cheese even because

1 of the ortho-phthalates used in teat cups and in the plastic 2 piping that moves milk to where it's made into cheese. And 3 then you wrap it with another plastic that compounds the 4 problem. But the farms that have switched to vinyl aren't 5 producing ortho-phthalates in their cheese. And there's so far 6 one company that has taken -- one organic company has taken 7 this seriously, and that's Annie's that's owned by General 8 Mills.

9 BOARD MEMBER CALDWELL: Great. Well, thank you so 10 much for that. And I really hope we can move forward and that 11 organics will be a leader in making our plastic situation safer 12 for everybody. So thanks so much.

MR. HANSON: We really want the NOP and NOSB to act on its own. We don't want to have to do a legal petition with you like we're doing now with the FDA. Thank you.

16 CHAIR SMITH: One more question for you from Jerry.17 Please go ahead.

BOARD MEMBER D'AMORE: Yeah, hi, Jaydee You went quickly past something that was either FDA or EPA and an involvement that you recently had with them.

21 MR. HANSON: Yeah.

BOARD MEMBER D'AMORE: Could you restate that for me, please?

24 MR. HANSON: Yes. The Center for Food Safety and the 25 Environmental Defense Fund and the Environmental Working Group,

over a year ago -- maybe two years ago now -- petitioned the 1 FDA to ban some kinds of PFAS in plastic contact substances and 2 to ban them as unapproved food additives because it's illegal 3 to have a food additive that causes cancer, and these 4 5 substances cause cancer. And they just this week finally said, okay, we are going to go and start to address your petition. 6 7 It doesn't mean they're saying yes, but it means they're at 8 least starting the legal process to address it.

9 BOARD MEMBER D'AMORE: Thank you for that. And good 10 luck with it. I would recommend that you put full force behind 11 that effort because if you get them to move, you're getting the 12 entire industry to move. So thank you.

MR. HANSON: That's why we're bothering them. But, you know, the EPA is the only agency that's really a little bit ahead.

BOARD MEMBER D'AMORE: Okay. Good. Thank you, sir.
MR. HANSON: Thank you.

18 CHAIR SMITH: Thanks so much, Jaydee.

19 Next up is Erin Levine, then I have Albert Strauss if20 he's back on, then John Brunquell.

21 Erin, please state your name and affiliation, and 22 then you can get started.

MS. LEVINE: Okay. Great. Can you hear me? Great.
So I'm Erin Levine. I'm with World Centric. We're
manufacturers of third-party certified compostable food ware.

And my background is actually in commercial composting in
 California. I used to sell compost that's approved for organic
 use into the agricultural community. So this issue is very
 close to me personally.

5 And I know it's not directly before this group, but 6 my comment today for the Crop Subcommittee Compost Section. It 7 pertains to the BPI petition to the NOP to allow compostable 8 food ware as acceptable feedstock. So I want to express my 9 support for BPI's proposed amendment to the definition of 10 compost from plant and animal material to compost feedstock.

It think that permitting food contact products that are certified compostable, meeting ASTM standards and that are verified by third-party certifiers like TUV or CMA or BPI, they allow an opportunity for composters to receive more nitrogen sources, since that food ware acts as a vessel for food scraps and additional carbon sources from the product themselves.

17 I recognize that currently all biopolymers are classified as synthetic, and although they may be synthesized, 18 19 they break down into natural non-synthetic elements through 20 naturally occurring biological processes that leave no 21 toxicity, and that's all established under the ASTM standards 22 D6400, D6868, and D8410. So the resulting compost feedstock doesn't contain anything synthetic, just natural non-synthetic 23 24 substances. So if the concern is that anything added to the 25 compost feedstock should be natural, then know that biopolymers

1 do essentially -- they break down into CO2, water, and helium. 2 So communities that have really robust organic -- I'm 3 running out of time, sorry -- compost collection and 4 processing, I have seen success with accepting certified 5 compostable packaging and overall reduction in conventional plastics that truly acts as a contaminant to compost. 6 So food 7 contact products that are non-reusable, non-recyclable, and 8 then are certified compostable, they need an appropriate outlet to aid in waste reduction and to contribute to the whole 9 10 circular economy.

I personally conducted a field test with the compostable field test program, and that's funded by the Compost Research and Education Foundation, and the objective was that to measure how certified compostable products are breaking down in commercial facilities.

16 So and I'll try to move this along, but the end result was that in a desirable timeframe we saw complete 17 disintegration of all the compostable plastics, even the lined 18 19 paper and fiber products. The liner disintegrated first before 20 the paper and the fiber did. And that's really been a hang-up, 21 especially with the lining piece, because we've had communities 22 that have had food ware and may want alternatives to 23 conventional plastic, and composters that sell their final 24 product as approved organic don't allow these, and so try to drink a hot coffee without a lining. It's just impossible, and 25

1 people don't want to revert back to conventional plastic. 2 Thank you. CHAIR SMITH: Thanks so much. It looks like you have 3 a question from Allison. 4 5 MS. LEVINE: Yeah, hi. Hi, Erin. 6 BOARD MEMBER JOHNSON: Thanks for your 7 I've been trying to understand all of the pieces comments. 8 that are coming together on this compost issue, and liners in 9 particular, my understanding was that at least still some 10 compostable products have PFAS in the liners. Can you speak to whether there's a threshold, or if they're not allowed at all 11 12 under the guidelines that we're considering? Yeah. So if it's certified through one 13 MS. LEVINE: 14 of the third parties I mentioned, they have to go through 15 ASTM's suite of testing, but then additionally to be third-16 party certified they have to meet under 100 parts per million 17 of intentionally-added PFAS. So it has to be under that 100 parts per million which would consider it not intentionally 18 19 Usually if it reads over, that's an indicator that it added. 20 was in the processing or in the manufacturing. So if it's 21 certified, it has no PFAS. 22 BOARD MEMBER JOHNSON: Thank you. 23 Brian, please go ahead. CHAIR SMITH: 24 BOARD MEMBER CALDWELL: Thanks, Erin. I'm sorry, 25 just very quickly, did you say 100 parts per million?

MS. LEVINE: Yes, 100 parts per million of total fluorine is the test for PFAS flourine. Does that answer --BOARD MEMBER CALDWELL: Because, you know, the PFAS standards are in parts per billion or parts per trillion, so we're talking maybe 100,000 parts per billion, right? Those numbers seem very high to me.

7

MS. LEVINE: Mm-hmm.

BOARD MEMBER CALDWELL: So and I am -- that's one of the concerns I have is whether a small percentage of these compostable materials may break down visually but may leave residues in the soil that we really don't want to see there. So that's a big question in my mind.

MS. LEVINE: Yeah, and I understand that. But to meet the ASCM standard it has to fully biodegrade, so make a full conversion in a 180-day time frame. I know that's a longer time frame than possibly desired for some commercial compost facilities, but it's required to make full biodegradation.

BOARD MEMBER CALDWELL: Well, I see that, and I guess it depends on how you evaluate that. A lot of these -- I don't know all the different standards -- but some of them just are talking about a visual disintegration. So PFAS compounds are not going to degrade in a compost pile. Those fluorine bonds, carbon bonds, are very strong, so they're going to be there. And I don't even know about some of the other compounds like the bisphenols and phthalates and those things,
but there is concern that the plasticizers and some of the
adjuvant type of chemicals that are used to produce plastics -even though they may be 99 percent compostable and sort of
benign components -- that that small percentage may really
present a problem over the long run. So that's where I'm
coming with this.

CHAIR SMITH: Mindee, please go ahead.

9 BOARD MEMBER JOHNSON: Oh, honestly, I thought you 10 said that the polymers break down into non-synthetic elements 11 in composting, and CO2, H2O, and something else, and I was 12 wondering if you could link that data for us.

13 MS. LEVINE: Oh, sure.

8

BOARD MEMBER JOHNSON: If you have a study or some information on the specificity of that.

16 MS. LEVINE: Yeah, that's where it's referring to the full biodegradation testing, and they do that in labs. 17 But what's required is to monitor the conversion, which is CO2, 18 19 organic matter, and really just purely CO2 water. I mean, 20 that's the resulting element. And, yeah, I'm happy to share an ASTM biodegradation test of a certified compostable product 21 22 because that could really inform this group. I'm happy to push 23 that along.

24 CHAIR SMITH: If that's something that you can share, 25 you can send it to Michelle, and just be aware it will go into 1 the public docket.

MS. LEVINE: Okay. Thank you.

3 CHAIR SMITH: You bet. And then you have one more4 question here from Nate.

5

2

MS. LEVINE: Oh.

6 BOARD MEMBER POWELL-PALM: Thanks for your comment 7 Kind of a larger question on plastics in general. today. It's 8 could you tell me why we need to be putting this sort of 9 material into our food system? Why can't it go and biodegrade 10 in a dump, in a landfill? Still, it's better than traditional plastics, but why do they have to get so close to what we're 11 12 going to be ingesting -- especially if there's just one part 13 per trillion PFAS?

Yeah, I mean, that's a really valid 14 MS. LEVINE: 15 question. I think, first, that if it comes in contact with 16 food, it's food-soiled. It's already approved for food contact 17 with the FDA. It has a very clear element. I'm not talking about -- I don't think we should have all compostables, like a 18 19 sneaker or anything else related, only food contact material. 20 That's the first and foremost. And it does help with the 21 overall global warming potential to reduce that because 22 anything going to a landfill can then contribute really to 23 nothing. And also then what happens in a landfill it would 24 just mummify and contribute to our continued landfill problem 25 of excess waste.

But in this way, if you produce a product that can go into and become a finished compost and go back into soil, it just can continue to be part of the circular economy. It has a very -- it's designed to be that way because it's derived all from plants. It will be entering back into the system and just continue to close it. That's why.

7 BOARD MEMBER POWELL-PALM: I totally appreciate that 8 sentiment. It seems like when we said we weren't going to have 9 sewage sludge in organics, we sort of made a very similar 10 decision that, yes, it's very circular to have human waste go back, but we said that that is an acute source of 11 contamination. Not to argue with you, but I totally -- and I 12 13 appreciate your comments today -- but I think it's something for us to consider. 14 15 MS. LEVINE: Okay. Thank you. 16 BOARD MEMBER POWELL-PALM: Thank you. 17 CHAIR SMITH: Thanks, Erin, for your comments. Appreciate it. 18 19 Do we have Albert Strauss back? I know he had to 20 perhaps leave and was going to try to come back. I don't see Albert back with us yet. 21 MS. ARSENAULT: CHAIR SMITH: Okay. I'll circle back around to him 22 23 at the end. 24 What about John Brunquell? 25 MR. BRUNOUELL: Yes, I'm here.

CHAIR SMITH: Yay. Okay. Great. One second. Let me just call the rest of the list.

Do we have Courtney Lorenz, Robin Olson, or Matthew Fitzgerald? That's the last three commenters, then, that I have for the day. So after John would be Courtney, then Robin, then Matthew.

John, you can state your name and affiliation andthen get started.

9 MR. BRUNOUELL: I'm Dr. John Brunquell. I'm the 10 founder and CEO of Egg Innovations. Egg Innovations is a leading producer of organic eggs in the United States. 11 12 Production is primarily in the Midwest. We ship across the United States. Egg Innovations has previously testified to the 13 14 NOSB on the critical need of keeping the organic symbol the 15 gold standard for consumers as it relates to organic integrity.

As we sit here today, there are simply too many certifications we can put on an egg carton. There's too much greenwashing of claims, which is unfortunate. So it falls on the organic community to police and solve these issues.

At Egg Innovations, we own an identity-preserved feed mill, and we source organic grain both directly from farmers and, when needed, through grain traders. We attempt to purchase as much as we can locally and then domestically. Having said that, some of our grain does come from imported sources.

1 A couple of key points I'd like to make are certified 2 organic is an incredible opportunity for all producers and 3 consumers. We need to make sure that we have a level playing 4 field for organic grain production so that we can encourage 5 more domestic farmers to grow organic. It's unfortunate that 6 in the U.S.A. we should have to import organic grain at all. 7 The issue I struggle with is grain markets are such that 8 farmers are motivated to produce conventional grain 9 sufficiently that we're a net exporter. And on the organic 10 side, markets are such that we are motivated to produce an insufficient amount of organic grain for the domestic market. 11 12 This simply needs to change.

The first thing we need to do is elevate the testing of imported grains to guarantee the product is pure, the playing field is level for all producers, and this will help encourage the domestic grain farmer to expand organic grain. I find it unfathomable that we can produce an organic soybean in Africa and ship it to an end user in the United States cheaper than we can produce it locally.

The organic grain market has incredible potential to grow. Consumers need to be made more aware of the many benefits of organic beyond just being a clean label. While organic market development, OMDG, was a good start for helping launch a growing organic market, we need to put in some more effort to educate the consumer about all the benefits of

1 organic and the value of buying domestically produced product. 2 From organic eggs on the shelf to organic corn grown 3 to feed the chickens, growing the organic market benefits every 4 stakeholder. We need to support the consumer and the domestic 5 supply chain that brings them products. I'm not opposed to 6 imported grains, but I suspect there are some integrity issues 7 of grain coming into a country that allows for foreign grains 8 to be competitive in one of the great bread baskets of the 9 world. Thank you. 10 CHAIR SMITH: Thanks, John. It looks like you have a question from Kim. 11 12 Kim, please go ahead. Hi, John. 13 BOARD MEMBER HUSEMAN: I appreciate your comments and your lens in how you look at this market space as 14 15 an end user. I'm curious, given the structure of your 16 business, do you feel like there is pressure on the -- I'll say the elevator or the crusher -- to provide U.S. products 17 competitive to the imported pricing structure of, let's say 18 19 meal, to the end user in order to get eggs to the market in a 20 competitive fashion? So essentially, I'll try to rephrase that a little 21 22 bit quicker to say, is there pressure from the end user to bid 23 on domestic products at the same pace as they do the imported 24 products, even though you know that it's a domestic supply 25 versus an imported supply?

1 MR. BRUNQUELL: The simple answer is yes. In our 2 experience across our entire customer base, I've never had a 3 retail customer demand, expect, or specify domestic production.

And so it really becomes an economic conversation. Currently, organic soy meal is about \$800 a ton and -- whether it's domestic or imported -- if I'm being offered a choice of \$750 and \$800 and the customer is agnostic, the system is set up to simply buy as to the lowest cost.

BOARD MEMBER HUSEMAN: Thank you. And I guess to
piggyback on that a little bit, even if they prefer domestic,
if you prefer domestic to be able to compete in the space,
you're having to go into a pricing structure anyway, maybe not
a product structure but a pricing structure to compete.

MR. BRUNQUELL: Correct. And I mean we're huge advocates of expanding the farm community in organic grain, but at this point the reality is that organic grain can come into the United States below what domestic farmers feel they can viably produce for, and that's the reason why we're stalled in expanding our capacity.

20 BOARD MEMBER HUSEMAN: Are you able to use other 21 alternative, I'll say, cheaper protein sources to help offset 22 any of your costs?

23 MR. BRUNQUELL: Generally not. In our world, in just 24 the simply physiology of a chicken producing an egg, it's got 25 to have a high protein source and it has to have an energy

251

source, and that would traditionally fall on soy or soy-related
 products for the protein and corn for the energy.

BOARD MEMBER HUSEMAN: Thank you, John. I'll yield to Nate, but I really do appreciate your comments today.

MR. BRUNQUELL: Thank you.

5

BOARD MEMBER POWELL-PALM: Kim was faster than me,
but I just wanted to like slow clap after that. It was so
good. Thank you for those comments.

9 You have nothing to gain for the domestic producers 10 getting a better shake. From my understanding, you're not a You're only a buyer. And so what do you think of 11 corn grower. as, you know, kind of the social contract that we've developed 12 What do we owe these farmers who have dedicated 13 in organic? 14 their lives to building this market, building this base, and 15 how can we as a community have a stronger conversation about 16 thinking of more than just the bottom line? Obviously that's critical and that's going to be the first consideration, but is 17 18 there a way we can think bigger for what we're trying to value 19 in this system?

20 MR. BRUNQUELL: Thank you for that. That's an 21 excellent question. Our perspective is I have no problem 22 paying more for grain as long as it's a level playing field 23 across the United States. If all of my competitors are in the 24 same environment and that's going to cost me an extra nickel a 25 dozen of cost, I have no problem with that. 1 What we see in the value proposition without -- you 2 know, to be colloquial, my dad always said pigs get fat, hogs 3 get slaughtered -- and everyone in the supply chain has to make 4 The farmer has to make money. The manufacturer has to money. 5 The retailer has to make money. And it has to get make money. 6 to the consumer at an affordable price. And as long as we stay 7 focused on the fact that everyone's entitled to a reasonable 8 profit but we still have to be affordable, then we're starting 9 to build a sustainable community.

BOARD MEMBER POWELL-PALM: If I could ask one small follow-up to that. If we had sort of a steady stated, say \$8 or \$9 a bushel for corn and \$900 for soybean meal, does that seem like something that -- I know farmers could make money at those levels. Would you be able to make money at those levels?

MR. BRUNQUELL: To put it in perspective, two years ago when the India issue arose I was paying \$1500 for soybean meal, and about three years ago I was paying \$14 for corn. So we can make these numbers work.

Eventually we simply have to pass it through to the consumer, and when we're talking about, in the case of a dozen organic eggs, it's going to be on the shelf for probably \$4 to \$6 a dozen depending on where you are in the United States, 10, 15 cents a dozen really doesn't make a difference. What consumers want is consistency and reliability.

25

BOARD MEMBER POWELL-PALM: It's the mic drop of the

1 day. Thank you so much for your comments. I so appreciate
2 you.

3 MR. BRUNQUELL: Thank you. Amy, please go ahead. 4 CHAIR SMITH: 5 VICE CHAIR BRUCH: Yeah, I guess I should have gone 6 ahead of Nate because I liked how we ended this, John. But 7 thank you for your time and your comments today. 8 Just a quick five-foot off the ground type question, 9 not a 50,000-foot question for you. But quality of the 10 products coming in, you mentioned price -- buyers are looking at price, they're looking at certificates -- the quality of the 11 product stream, from your assessment, is it of equal caliber in 12 13 general to what's produced in the States? 14 MR. BRUNQUELL: Generally not. It will be highly variable. There's some excellent quality comes in. 15 We 16 individually own the elevator, so what we do is we allow for 17 the ability to blend off, and so we will hold an inventory of domestic that will blend into the import. So in our situation, 18 19 it's not exclusively one or the other. But when we have 20 quality concerns, we retain high-quality product to blend off 21 to bring the quality to our minimum standards. 22 VICE CHAIR BRUCH: Thank you. 23 Thanks so much for your comments, John. CHAIR SMITH: 24 MR. BRUNQUELL: Thank you. 25 CHAIR SMITH: Okay. I have Matthew Fitzgerald, then

Robin Olson. We'll see if Albert joined us back, and that will
 round us out for the day.

So Matthew, are you there?
Have we found Matthew?
MS. ARSENAULT: He's one -- oh, there we go.
CHAIR SMITH: Oh, we got you.
MR. FITZGERALD: Very good.
CHAIR SMITH: Yeah, state your name and affiliation,

9 and then you can start.

10 MR. FITZGERALD: Good afternoon, Board. My name is 11 Matthew Fitzgerald. I am an organic farmer in Minnesota and the owner of Fitzgerald Organics LLC. It's perhaps a good 12 thing that I'm calling in rather than a Zoom today because I'm 13 14 covered in dirt and dust from working on a planter, so you don't have to look at my face, you can just hear my words. 15 I'd 16 like to comment on urging the Board to take into consideration 17 additional practices and regulations around the testing of 18 imported grains.

Our farm is a 24-year-old organic farm. We started out in the year 2000 with 200 acres and today raise 2,500 acres of organic corn, soybeans, wheat, and peas. In 2023, our onfarm yields averaged 204 bushels an acre in corn, 58 bushels an acre in soybeans, and 75 bushels in wheat.

With those 24 years of experience, we considerourselves to be highly productive, highly efficient, skilled

organic grain farmers who are able to be competitive in terms of production with their conventional neighbors, and we take pride in what we do and feel that the organic industry has been a blessing for our family and our ability to support multiple households on a family-sized farm.

We support the organic industry through speaking at conferences, consulting other beginning farmers, and assisting farmers transitioning to organic, and we continue to believe in the importance of organics for the American family farm.

I urge this Board to consider additional regulations and practices regarding testing imported grain such that domestic farmers like ourselves have an even playing field. I congratulate the Board on the work that you have already done and end my comments by just adding on to the work as we begin on our farm and planting that you will continue your work in helping us raise a successful crop for future years.

17

CHAIR SMITH: Thanks, Matthew.

18 Any questions for Matthew? I'm not seeing -- oh,19 Nate got in there. Go ahead, Nate.

BOARD MEMBER POWELL-PALM: I just want to say thank you so much for taking the time, Matthew, to speak with us. Hearing from farmers -- especially farmers right in the field -- is the best part of this process, and we hear you. You're able to produce some organic grain. We want to help get this market working for all of you farmers, and so we really

1 appreciate the input that you've given us today. 2 CHAIR SMITH: Thanks for getting on here, Matthew. 3 Appreciate your comments. 4 Do we have Robin Olson? 5 MS. HOLM: I don't see Robin online. And Albert, did he make it back? 6 CHAIR SMITH: Oh, 7 I'm being told Robin is on. wait. 8 MS. HOLM: I am not seeing Robin by name or phone 9 number. Albert's not back on. Anyway since we are running 10 late we have to move on. Okay. I think then that wraps us up 11 CHAIR SMITH: I just want to say thanks to everybody who provided 12 today. comments to the Board today. Thanks, everyone, for hanging in 13 14 45 minutes longer. I didn't do as good today with the time 15 management, so thanks for everybody's patience with all the 16 moving around. 17 And we will reconvene on Monday, April 29th, in Milwaukee, Wisconsin, for the NOSB meeting. We will also have 18 19 a live broadcast of that meeting, and information is available 20 here on the slide. If you're going to be in Milwaukee, we 21 can't wait to see you, and thanks again for spending the 22 afternoon with us. (Whereupon, at 5:45 p.m., the Webinar was adjourned, 23 24 to reconvene on Monday, April 29, 2024, at 9:00 a.m. CST.) 25

1	CERTIFICATION
2	
3	This is to certify that the attached proceeding
4	before the:
5	NATIONAL ORGANIC STANDARDS BOARD
6	
7	IN THE MATTER OF: SPRING 2024 PUBLIC COMMENT WEBINAR
8	PLACE: ZOOM
9	DATE: April 25, 2024
10	
11	was held according to the record, and that this is the
12	original, complete, true and accurate transcript which has been
13	compared to the recording accompliched at the bearing.
14	Edine Mola Rase
15	
16	Elaine M. LaRosee, CDLR
17	Official Reporter
18	
19	
20	
21	
22	
23	
24	
25	

abandon (1) 229:21 56:10:104:20,22; 154:17;160:14;164:2; 83:14 accepted (3) 195:17,18;216:6; 165:2.16:166:21: abide (2) 124:14;144:7; 234:4:254:22,23 178:8:183:5:185:15; 62:24:218:14 228:20 acreage (8) 187:5;189:22;190:16, -- (10) accepting (3) 83:15:167:17; ability (9) 21;195:18;197:8,15; 9:7;41:14;81:22,25; 8:1;52:14;73:9; 154:19;229:7;241:4 212:4;214:13,20; 204:20;206:8;222:10, 82:2;97:7;146:20; 104:1;133:19;134:2; access (15) 215:7.11.14 15;223:9;237:22; 246:4,12;255:18 139:18:253:17:255:4 8:8;14:15;126:15; acres (37) 240:1 14:5;22:2,3;51:12, acute (1) \$ able (33) 130:25;132:23; 24:8,23:37:18; 141:25;143:6;148:10; 15:52:21:53:17:60:1, 246:11 40:13;60:18;69:25; 190:13;200:11; 3;70:24,25;74:10,15, adapt (1) \$14(1) 211:21;212:20; 19:78:23:80:8:81:17; 125:3 73:23:87:10:88:1; 252:17 90:13;93:4;100:7; 218:12,15;219:23 82:3;110:23;154:14; adaptable (1) \$1500 (3) 138:9;146:5;147:3; accessible (1) 155:18,22,22;156:9, 41:22 162:9;164:1;252:16 150:5;157:6;162:13; 143:6 11;192:21,22,25; adaptive (1) \$18(1) accommodate (1) 188:25;192:16; 195:19;197:19; 233:19 104:15 129:25 212:25;214:16,18; add (12) 193:13;196:7;198:13; **\$2 (3)** 215:5;228:24;254:20, 200:16;210:20;215:8; accommodating (1) 32:18;35:15;67:16; 120:11;144:14; 20 223:19;237:12; 140:10 72:20;85:1;108:5; 207:22 accompanied (1) 250:11,20;252:14; acronyms (1) 136:10;144:3;152:14; \$20(2) 255:1,24 120:16 127:1 153:10;171:6;235:2 104:13,15 ably (1) accomplish (1) added (14) across (12) \$200(1) 108:16 119:19 39:6;71:7;141:1; 5:1;32:7,11,12; 102:16 above (4) accomplished (2) 190:4;203:22,23; 35:25;71:4;84:17; \$300(1) 104:14,19;158:7; 84:14;121:22 219:13;225:19;228:3; 133:21;134:22,23; 188:4 247:12;250:2;251:23 according (2) 156:14;171:12; 201:11 \$35 (2) abroad (2) 211:20;213:21 Act (7) 240:24;242:19 51:20;76:10 184:22:188:9 accordingly (1) 8:14;15:19;16:25; Adding (5) **\$4 (1)** absence (1) 227:1 133:14;199:11;236:3; 31:10;49:11,14; 252:21 231:13 account (4) 238:13 71:8:255:14 \$40(1) absolute (2) 37:7:120:21; Acting (2) addition (8) 76:11 29:20:90:1 121:19:204:16 7:16.20 116:4:121:5:129:6: \$400 (1) accountable (2) Absolutely (18) action (6) 143:22,25;170:12,12; 95:2 23:19;75:2;82:1; 63:5.8 17:1;31:23;200:5; 204:23 \$5,000 (1) accreditation (2) 233:15;234:11; additional (14) 91:5;104:5;126:25; 188:2 115:20.24 236:18 40:7;111:11,12; 133:13;134:16; \$50(1) accreditations (2) actions (1) 139:20:143:3.11; 126:17;170:23;172:5; 104:14 217:13 115:24:226:11 199:22;208:2;222:18; 146:1.8:160:13: \$500(1) Accredited (6) actively (1) 226:8,24;240:16; 163:3,19;178:18; 188:4 179:3 107:17:168:13; 71:14 254:17:255:10 \$500,000 (1) absorbed (1) 225:9;226:6;231:25; activities (1) Additionally (3) 160:19 43:2 232:3 84:22 157:9:218:8:242:15 \$6(1) absorption (1) accuracy (1) activity (1) additive (1) 252:22 153:14 215:17 67:24 239:4 \$70(1) absurd (1) accurate (1) additives (2) actor (1) 120:9 158:1;239:3 200:13 229:25 155:6 \$750 (5) accustomed (1) add-on (1) abuse (1) acts (2) 161:5;162:9,24; 233:20 240:15;241:6 167:9 151:10 163:18:250:7 abused (1) achieve (1) actual (8) address (13) \$8 (1) 44:12 28:21 33:2;48:7;83:11; 17:3;29:2;119:16; 252:11 ACA (16) Achilles (1) 84:21;129:16;201:11; 129:15,16:142:15; \$800 (2) 148:19;154:12; 43:25:107:24: 212:16 213:18:214:14 250:5,7 108:18;109:24; acid (17) actually (57) 201:17;232:21; \$9 (1) 112:21;113:1,7,12,12; 35:16;46:25,25; 14:5,10,12;17:17; 233:14;239:6,8 252:12 116:13,15,17,19,22, 47:3,6,9,11,14,17,18, 18:2,7;25:11;43:2; addressed (2) \$90 (1) 25;118:1 20;149:7,11,17; 46:13;57:23;60:23; 212:15;225:24 120:10 academic (1) 151:18;152:7;181:5 65:1;75:20;82:11; addressing (1) **\$900 (1)** acids (5) 154:25 67:12 87:18;88:21;90:20, 252:12 accelerate (1) 35:19;149:5,21; 21;96:24;97:24;98:4; Adele (15) 200:17 150:14:153:14 100:8;106:25;112:14; 159:15;168:2; Α acceptable (1) acknowledge (1) 116:2:141:8:143:23: 181:17,18,20,21; 240:8 178:9 144:10:146:7,22; 184:10,11,17;186:23; Aaron (2)

26:24;27:5

151:16,19,20;152:13;

acre (9)

acceptance (1)

187:1,11;189:17,19;

- Vol. 2 April 25, 2024

191:2 adequate (2) 203:7;231:22 adjective (1) 93:24 adjourned (1) 256:23 adjuvant (1) 244:3 administering (1) 22:5 administration (2) 67:25;133:9 admit (2) 185:15,15 admitted (1) 39:8 adopt (2) 220:5;234:17 adopting (1) 149:19 adoption (1) 222:19 adults (1) 91:20 advance (3) 26:23;109:23; 146:20 advancement (1) 119:12 advancements (1) 231:5 advances (1) 231:14 advantage (4) 61:10;62:23;64:22; 73:23 advantageous (1) 69:22 advantages (1) 104:25 adventitious (1) 103:5 advice (2) 169:10;216:23 advisor (2) 96:17;228:1 Advisory (3) 8:14;67:13;208:5 advocate (1) 209:23 advocated (1) 234:12 advocates (3) 28:13;119:11; 250:15 advocating (1) 116:14 Aerospace (1) 98:5 affect (1) 69:2

192:18	40:11;131:18
affecting (3)	agency (1)
60:15;192:3,4	239:14
affiliation (37)	agenda (2)
7:8;12:14;13:13,25;	11:20;110:2
21:24;27:23;30:18;	agent (4)
46:17;57:11;63:21;	67:20;131:5,23;
67:2;70:17;75:25;	232:1
82:23;87:4;96:14;	agents (1)
101:9;106:23;123:20;	232:4
127:21;135:25;	aggressive (1)
140:19;143:19;	100:13
147:24;154:4;182:3;	agile (2)
184:16;191:12;199:1;	117:15,21
208:20;225:6;230:16;	agnostic (1)
233:8;235:19;239:21;	250:7
247:7;254:8 affiliations (1)	ago (16) 14:13;36:12;59:24;
12:2	90:20;93:10,21;
afford (1)	90.20,95.10,21, 97:19;124:1;139:16;
193:13	198:6;213:13;236:20;
affordable (3)	239:1,1;252:16,17
231:3;252:6,8	agree (21)
afforded (1)	28:11;40:25;60:25;
201:7	81:20,21;90:11;
afraid (1)	97:12;115:17;139:21,
86:18	25;143:2;159:21;
Africa (7)	161:16;163:17;164:3,
84:10;120:8;	19;167:11;214:16;
211:14;213:23,24;	221:14,19;223:9
215:3;248:18	Agreement (2)
African (1)	
African (1) 119:19	28:7;229:3 agreements (1)
	28:7;229:3
119:19	28:7;229:3 agreements (1)
119:19 afternoon (18) 66:22;82:25; 118:11;119:9;123:23;	28:7;229:3 agreements (1) 229:11 agricultural (5) 211:8;216:11;
119:19 afternoon (18) 66:22;82:25; 118:11;119:9;123:23; 142:16;202:15,16;	28:7;229:3 agreements (1) 229:11 agricultural (5) 211:8;216:11; 220:24;232:11;240:3
119:19 afternoon (18) 66:22;82:25; 118:11;119:9;123:23; 142:16;202:15,16; 210:23;215:25;216:4;	28:7;229:3 agreements (1) 229:11 agricultural (5) 211:8;216:11; 220:24;232:11;240:3 Agriculture (8)
119:19 afternoon (18) 66:22;82:25; 118:11;119:9;123:23; 142:16;202:15,16; 210:23;215:25;216:4; 219:4,10;222:5;	28:7;229:3 agreements (1) 229:11 agricultural (5) 211:8;216:11; 220:24;232:11;240:3 Agriculture (8) 16:24;29:11;39:6;
119:19 afternoon (18) 66:22;82:25; 118:11;119:9;123:23; 142:16;202:15,16; 210:23;215:25;216:4;	28:7;229:3 agreements (1) 229:11 agricultural (5) 211:8;216:11; 220:24;232:11;240:3 Agriculture (8) 16:24;29:11;39:6; 93:12;157:10;158:1;
119:19 afternoon (18) 66:22;82:25; 118:11;119:9;123:23; 142:16;202:15,16; 210:23;215:25;216:4; 219:4,10;222:5; 225:7;233:10;254:10; 256:22	28:7;229:3 agreements (1) 229:11 agricultural (5) 211:8;216:11; 220:24;232:11;240:3 Agriculture (8) 16:24;29:11;39:6; 93:12;157:10;158:1; 219:13;220:16
119:19 afternoon (18) 66:22;82:25; 118:11;119:9;123:23; 142:16;202:15,16; 210:23;215:25;216:4; 219:4,10;222:5; 225:7;233:10;254:10; 256:22 ag (2)	28:7;229:3 agreements (1) 229:11 agricultural (5) 211:8;216:11; 220:24;232:11;240:3 Agriculture (8) 16:24;29:11;39:6; 93:12;157:10;158:1; 219:13;220:16 Agrimeris (1)
119:19 afternoon (18) 66:22;82:25; 118:11;119:9;123:23; 142:16;202:15,16; 210:23;215:25;216:4; 219:4,10;222:5; 225:7;233:10;254:10; 256:22 ag (2) 214:10,11	28:7;229:3 agreements (1) 229:11 agricultural (5) 211:8;216:11; 220:24;232:11;240:3 Agriculture (8) 16:24;29:11;39:6; 93:12;157:10;158:1; 219:13;220:16 Agrimeris (1) 211:6
119:19 afternoon (18) 66:22;82:25; 118:11;119:9;123:23; 142:16;202:15,16; 210:23;215:25;216:4; 219:4,10;222:5; 225:7;233:10;254:10; 256:22 ag (2) 214:10,11 again (31)	28:7;229:3 agreements (1) 229:11 agricultural (5) 211:8;216:11; 220:24;232:11;240:3 Agriculture (8) 16:24;29:11;39:6; 93:12;157:10;158:1; 219:13;220:16 Agrimeris (1) 211:6 AgriSecure (2)
119:19 afternoon (18) 66:22;82:25; 118:11;119:9;123:23; 142:16;202:15,16; 210:23;215:25;216:4; 219:4,10;222:5; 225:7;233:10;254:10; 256:22 ag (2) 214:10,11 again (31) 5:24;7:13,19;8:5;	28:7;229:3 agreements (1) 229:11 agricultural (5) 211:8;216:11; 220:24;232:11;240:3 Agriculture (8) 16:24;29:11;39:6; 93:12;157:10;158:1; 219:13;220:16 Agrimeris (1) 211:6 AgriSecure (2) 154:5,7
119:19 afternoon (18) 66:22;82:25; 118:11;119:9;123:23; 142:16;202:15,16; 210:23;215:25;216:4; 219:4,10;222:5; 225:7;233:10;254:10; 256:22 ag (2) 214:10,11 again (31) 5:24;7:13,19;8:5; 12:13;39:20;41:16;	28:7;229:3 agreements (1) 229:11 agricultural (5) 211:8;216:11; 220:24;232:11;240:3 Agriculture (8) 16:24;29:11;39:6; 93:12;157:10;158:1; 219:13;220:16 Agrimeris (1) 211:6 AgriSecure (2) 154:5,7 agroecological (2)
119:19 afternoon (18) 66:22;82:25; 118:11;119:9;123:23; 142:16;202:15,16; 210:23;215:25;216:4; 219:4,10;222:5; 225:7;233:10;254:10; 256:22 ag (2) 214:10,11 again (31) 5:24;7:13,19;8:5; 12:13;39:20;41:16; 55:21;60:20;62:11;	28:7;229:3 agreements (1) 229:11 agricultural (5) 211:8;216:11; 220:24;232:11;240:3 Agriculture (8) 16:24;29:11;39:6; 93:12;157:10;158:1; 219:13;220:16 Agrimeris (1) 211:6 AgriSecure (2) 154:5,7 agroecological (2) 28:18;29:16
119:19 afternoon (18) 66:22;82:25; 118:11;119:9;123:23; 142:16;202:15,16; 210:23;215:25;216:4; 219:4,10;222:5; 225:7;233:10;254:10; 256:22 ag (2) 214:10,11 again (31) 5:24;7:13,19;8:5; 12:13;39:20;41:16; 55:21;60:20;62:11; 72:3;74:12;90:16;	28:7;229:3 agreements (1) 229:11 agricultural (5) 211:8;216:11; 220:24;232:11;240:3 Agriculture (8) 16:24;29:11;39:6; 93:12;157:10;158:1; 219:13;220:16 Agrimeris (1) 211:6 AgriSecure (2) 154:5,7 agroecological (2) 28:18;29:16 Agromeris (1)
119:19 afternoon (18) 66:22;82:25; 118:11;119:9;123:23; 142:16;202:15,16; 210:23;215:25;216:4; 219:4,10;222:5; 225:7;233:10;254:10; 256:22 ag (2) 214:10,11 again (31) 5:24;7:13,19;8:5; 12:13;39:20;41:16; 55:21;60:20;62:11; 72:3;74:12;90:16; 99:13;114:23;123:6,	28:7;229:3 agreements (1) 229:11 agricultural (5) 211:8;216:11; 220:24;232:11;240:3 Agriculture (8) 16:24;29:11;39:6; 93:12;157:10;158:1; 219:13;220:16 Agrimeris (1) 211:6 AgriSecure (2) 154:5,7 agroecological (2) 28:18;29:16 Agromeris (1) 119:18
119:19 afternoon (18) 66:22;82:25; 118:11;119:9;123:23; 142:16;202:15,16; 210:23;215:25;216:4; 219:4,10;222:5; 225:7;233:10;254:10; 256:22 ag (2) 214:10,11 again (31) 5:24;7:13,19;8:5; 12:13;39:20;41:16; 55:21;60:20;62:11; 72:3;74:12;90:16; 99:13;114:23;123:6, 14;131:21;132:12;	28:7;229:3 agreements (1) 229:11 agricultural (5) 211:8;216:11; 220:24;232:11;240:3 Agriculture (8) 16:24;29:11;39:6; 93:12;157:10;158:1; 219:13;220:16 Agrimeris (1) 211:6 AgriSecure (2) 154:5,7 agroecological (2) 28:18;29:16 Agromeris (1) 119:18 agronomic (2)
119:19 afternoon (18) 66:22;82:25; 118:11;119:9;123:23; 142:16;202:15,16; 210:23;215:25;216:4; 219:4,10;222:5; 225:7;233:10;254:10; 256:22 ag (2) 214:10,11 again (31) 5:24;7:13,19;8:5; 12:13;39:20;41:16; 55:21;60:20;62:11; 72:3;74:12;90:16; 99:13;114:23;123:6, 14;131:21;132:12; 134:16;166:5;183:18;	28:7;229:3 agreements (1) 229:11 agricultural (5) 211:8;216:11; 220:24;232:11;240:3 Agriculture (8) 16:24;29:11;39:6; 93:12;157:10;158:1; 219:13;220:16 Agrimeris (1) 211:6 AgriSecure (2) 154:5,7 agroecological (2) 28:18;29:16 Agromeris (1) 119:18 agronomic (2) 188:16;206:2
119:19 afternoon (18) 66:22;82:25; 118:11;119:9;123:23; 142:16;202:15,16; 210:23;215:25;216:4; 219:4,10;222:5; 225:7;233:10;254:10; 256:22 ag (2) 214:10,11 again (31) 5:24;7:13,19;8:5; 12:13;39:20;41:16; 55:21;60:20;62:11; 72:3;74:12;90:16; 99:13;114:23;123:6, 14;131:21;132:12; 134:16;166:5;183:18; 204:8;206:9;208:8;	28:7;229:3 agreements (1) 229:11 agricultural (5) 211:8;216:11; 220:24;232:11;240:3 Agriculture (8) 16:24;29:11;39:6; 93:12;157:10;158:1; 219:13;220:16 Agrimeris (1) 211:6 AgriSecure (2) 154:5,7 agroecological (2) 28:18;29:16 Agromeris (1) 119:18 agronomic (2)
119:19 afternoon (18) 66:22;82:25; 118:11;119:9;123:23; 142:16;202:15,16; 210:23;215:25;216:4; 219:4,10;222:5; 225:7;233:10;254:10; 256:22 ag (2) 214:10,11 again (31) 5:24;7:13,19;8:5; 12:13;39:20;41:16; 55:21;60:20;62:11; 72:3;74:12;90:16; 99:13;114:23;123:6, 14;131:21;132:12; 134:16;166:5;183:18;	28:7;229:3 agreements (1) 229:11 agricultural (5) 211:8;216:11; 220:24;232:11;240:3 Agriculture (8) 16:24;29:11;39:6; 93:12;157:10;158:1; 219:13;220:16 Agrimeris (1) 211:6 AgriSecure (2) 154:5,7 agroecological (2) 28:18;29:16 Agromeris (1) 119:18 agronomic (2) 188:16;206:2 agronomics (1)
119:19 afternoon (18) 66:22;82:25; 118:11;119:9;123:23; 142:16;202:15,16; 210:23;215:25;216:4; 219:4,10;222:5; 225:7;233:10;254:10; 256:22 ag (2) 214:10,11 again (31) 5:24;7:13,19;8:5; 12:13;39:20;41:16; 55:21;60:20;62:11; 72:3;74:12;90:16; 99:13;114:23;123:6, 14;131:21;132:12; 134:16;166:5;183:18; 204:8;206:9;208:8; 215:7;216:21;233:22,	28:7;229:3 agreements (1) 229:11 agricultural (5) 211:8;216:11; 220:24;232:11;240:3 Agriculture (8) 16:24;29:11;39:6; 93:12;157:10;158:1; 219:13;220:16 Agrimeris (1) 211:6 AgriSecure (2) 154:5,7 agroecological (2) 28:18;29:16 Agromeris (1) 119:18 agronomic (2) 188:16;206:2 agronomiss (1) 206:7 agronomist (1) 140:22
119:19 afternoon (18) 66:22;82:25; 118:11;119:9;123:23; 142:16;202:15,16; 210:23;215:25;216:4; 219:4,10;222:5; 225:7;233:10;254:10; 256:22 ag (2) 214:10,11 again (31) 5:24;7:13,19;8:5; 12:13;39:20;41:16; 55:21;60:20;62:11; 72:3;74:12;90:16; 99:13;114:23;123:6, 14;131:21;132:12; 134:16;166:5;183:18; 204:8;206:9;208:8; 215:7;216:21;233:22, 23;234:1;256:21 against (14) 29:6;47:5;48:11;	28:7;229:3 agreements (1) 229:11 agricultural (5) 211:8;216:11; 220:24;232:11;240:3 Agriculture (8) 16:24;29:11;39:6; 93:12;157:10;158:1; 219:13;220:16 Agrimeris (1) 211:6 AgriSecure (2) 154:5,7 agroecological (2) 28:18;29:16 Agromeris (1) 119:18 agronomic (2) 188:16;206:2 agronomics (1) 206:7 agronomist (1)
119:19 afternoon (18) 66:22;82:25; 118:11;119:9;123:23; 142:16;202:15,16; 210:23;215:25;216:4; 219:4,10;222:5; 225:7;233:10;254:10; 256:22 ag (2) 214:10,11 again (31) 5:24;7:13,19;8:5; 12:13;39:20;41:16; 55:21;60:20;62:11; 72:3;74:12;90:16; 99:13;114:23;123:6, 14;131:21;132:12; 134:16;166:5;183:18; 204:8;206:9;208:8; 215:7;216:21;233:22, 23;234:1;256:21 against (14) 29:6;47:5;48:11; 49:11;112:8;120:20;	28:7;229:3 agreements (1) 229:11 agricultural (5) 211:8;216:11; 220:24;232:11;240:3 Agriculture (8) 16:24;29:11;39:6; 93:12;157:10;158:1; 219:13;220:16 Agrimeris (1) 211:6 AgriSecure (2) 154:5,7 agroecological (2) 28:18;29:16 Agromeris (1) 119:18 agronomic (2) 188:16;206:2 agronomist (1) 206:7 agronomist (1) 140:22 agronomists (1) 203:1
119:19 afternoon (18) 66:22;82:25; 118:11;119:9;123:23; 142:16;202:15,16; 210:23;215:25;216:4; 219:4,10;222:5; 225:7;233:10;254:10; 256:22 ag (2) 214:10,11 again (31) 5:24;7:13,19;8:5; 12:13;39:20;41:16; 55:21;60:20;62:11; 72:3;74:12;90:16; 99:13;114:23;123:6, 14;131:21;132:12; 134:16;166:5;183:18; 204:8;206:9;208:8; 215:7;216:21;233:22, 23;234:1;256:21 against (14) 29:6;47:5;48:11; 49:11;112:8;120:20; 173:9;176:1,19;	28:7;229:3 agreements (1) 229:11 agricultural (5) 211:8;216:11; 220:24;232:11;240:3 Agriculture (8) 16:24;29:11;39:6; 93:12;157:10;158:1; 219:13;220:16 Agrimeris (1) 211:6 AgriSecure (2) 154:5,7 agroecological (2) 28:18;29:16 Agromeris (1) 119:18 agronomic (2) 188:16;206:2 agronomist (1) 206:7 agronomist (1) 140:22 agronomist (1) 203:1 agronomy (1)
119:19 afternoon (18) 66:22;82:25; 118:11;119:9;123:23; 142:16;202:15,16; 210:23;215:25;216:4; 219:4,10;222:5; 225:7;233:10;254:10; 256:22 ag (2) 214:10,11 again (31) 5:24;7:13,19;8:5; 12:13;39:20;41:16; 55:21;60:20;62:11; 72:3;74:12;90:16; 99:13;114:23;123:6, 14;131:21;132:12; 134:16;166:5;183:18; 204:8;206:9;208:8; 215:7;216:21;233:22, 23;234:1;256:21 against (14) 29:6;47:5;48:11; 49:11;112:8;120:20; 173:9;176:1,19; 177:11;194:14;197:2;	28:7;229:3 agreements (1) 229:11 agricultural (5) 211:8;216:11; 220:24;232:11;240:3 Agriculture (8) 16:24;29:11;39:6; 93:12;157:10;158:1; 219:13;220:16 Agrimeris (1) 211:6 AgriSecure (2) 154:5,7 agroecological (2) 28:18;29:16 Agromeris (1) 119:18 agronomic (2) 188:16;206:2 agronomist (1) 206:7 agronomist (1) 140:22 agronomist (1) 203:1 agronomy (1) 225:9
119:19 afternoon (18) 66:22;82:25; 118:11;119:9;123:23; 142:16;202:15,16; 210:23;215:25;216:4; 219:4,10;222:5; 225:7;233:10;254:10; 256:22 ag (2) 214:10,11 again (31) 5:24;7:13,19;8:5; 12:13;39:20;41:16; 55:21;60:20;62:11; 72:3;74:12;90:16; 99:13;114:23;123:6, 14;131:21;132:12; 134:16;166:5;183:18; 204:8;206:9;208:8; 215:7;216:21;233:22, 23;234:1;256:21 against (14) 29:6;47:5;48:11; 49:11;112:8;120:20; 173:9;176:1,19; 177:11;194:14;197:2; 209:8;216:23	28:7;229:3 agreements (1) 229:11 agricultural (5) 211:8;216:11; 220:24;232:11;240:3 Agriculture (8) 16:24;29:11;39:6; 93:12;157:10;158:1; 219:13;220:16 Agrimeris (1) 211:6 AgriSecure (2) 154:5,7 agroecological (2) 28:18;29:16 Agromeris (1) 119:18 agronomic (2) 188:16;206:2 agronomist (1) 206:7 agronomist (1) 203:1 agronomy (1) 225:9 ah (1)
119:19 afternoon (18) 66:22;82:25; 118:11;119:9;123:23; 142:16;202:15,16; 210:23;215:25;216:4; 219:4,10;222:5; 225:7;233:10;254:10; 256:22 ag (2) 214:10,11 again (31) 5:24;7:13,19;8:5; 12:13;39:20;41:16; 55:21;60:20;62:11; 72:3;74:12;90:16; 99:13;114:23;123:6, 14;131:21;132:12; 134:16;166:5;183:18; 204:8;206:9;208:8; 215:7;216:21;233:22, 23;234:1;256:21 against (14) 29:6;47:5;48:11; 49:11;112:8;120:20; 173:9;176:1,19; 177:11;194:14;197:2; 209:8;216:23 age (2)	28:7;229:3 agreements (1) 229:11 agricultural (5) 211:8;216:11; 220:24;232:11;240:3 Agriculture (8) 16:24;29:11;39:6; 93:12;157:10;158:1; 219:13;220:16 Agrimeris (1) 211:6 AgriSecure (2) 154:5,7 agroecological (2) 28:18;29:16 Agromeris (1) 119:18 agronomic (2) 188:16;206:2 agronomist (1) 206:7 agronomist (1) 203:1 agronomy (1) 225:9 ah (1) 9:7
119:19 afternoon (18) 66:22;82:25; 118:11;119:9;123:23; 142:16;202:15,16; 210:23;215:25;216:4; 219:4,10;222:5; 225:7;233:10;254:10; 256:22 ag (2) 214:10,11 again (31) 5:24;7:13,19;8:5; 12:13;39:20;41:16; 55:21;60:20;62:11; 72:3;74:12;90:16; 99:13;114:23;123:6, 14;131:21;132:12; 134:16;166:5;183:18; 204:8;206:9;208:8; 215:7;216:21;233:22, 23;234:1;256:21 against (14) 29:6;47:5;48:11; 49:11;112:8;120:20; 173:9;176:1,19; 177:11;194:14;197:2; 209:8;216:23	28:7;229:3 agreements (1) 229:11 agricultural (5) 211:8;216:11; 220:24;232:11;240:3 Agriculture (8) 16:24;29:11;39:6; 93:12;157:10;158:1; 219:13;220:16 Agrimeris (1) 211:6 AgriSecure (2) 154:5,7 agroecological (2) 28:18;29:16 Agromeris (1) 119:18 agronomic (2) 188:16;206:2 agronomist (1) 206:7 agronomist (1) 203:1 agronomy (1) 225:9 ah (1)

18:22:20:19:21:4; 22:25:24:1:25:1.9: 32:21:33:17:35:6; 38:11;48:17;49:9; 53:1;54:3;55:9;58:9; 60:22;72:12;73:5,15; 74:2;77:19;79:24; 82:9:85:11:86:12: 89:2,9;91:2;92:14; 93:7;98:15;99:18,20; 105:6;113:17;116:1, 11:121:12:122:8; 125:22;130:11; 132:14;138:3;139:7; 142:18;146:11;150:7; 151:6,23;152:17; 156:3;158:20;159:3; 161:11;162:19;165:1; 166:20;168:4;170:21; 172:10;173:6;174:10; 176:12;177:17; 179:13:186:10.25: 187:10;189:18; 193:17;194:21; 196:21;198:2;205:6, 21;206:22;211:2; 213:10;214:4;215:20; 218:22;219:7;221:9; 222:4;224:11;227:6; 235:9,18,21:238:17; 239:15:242:23:244:8; 249:12;253:4,6; 255:19 aid (2)199:20:241:9 aimed (1) 94:5 air (1) 24:4airport (4) 131:2;202:17; 205:8,24 alarm (1) 128:17 alarming (1) 201:12 Albert (8) 51:3;77:8;235:17; 239:19;246:19,21; 254:1;256:6 Albert's (1) 256:9 ALDWELL (1) 9:13 alfalfa (1) 163:2 Alger (8) 95:24;96:2;168:3; 181:20;182:4,4; 183:24:184:9 align (2) 149:16:224:2 aligned (1)

- Vol. 2 April 25, 2024

29:15 Alleghenies (2) 105:16,17 allied (1) 67:12 Allison (13) 10:1;16:17;24:1; 25:2:54:3:161:13: 162:2;174:10;196:21; 205:5,6;207:3;242:4 allocate (1) 29:9 allow (24) 8:2;37:1,10;47:14; 52:23,23;109:14,16; 136:10,23;137:2; 144:1;149:18,20,22, 25;152:8;200:23; 201:2,4;240:7,14; 241:24;253:16 allowance (2) 47:23:149:22 allowed (14) 12:18;32:15;35:13, 20;44:21;47:19,25; 48:2;68:2;152:1; 171:15;231:20;232:2; 242:11 Allowing (11) 29:4,12;33:12; 51:16:52:6:85:8; 100:13:137:24:151:1: 200:15:202:16 allows (5) 151:2;192:15; 200:18;211:18;249:7 almost (14) 15:21;52:6;59:19; 69:1;76:11,11; 105:20;113:2;142:5; 153:15;190:14;197:9; 206:10,13 alone (1) 186:17 along (11) 14:8;26:22;44:14; 48:6;80:16,21;136:5; 142:20;229:18; 241:16;244:23 already-denied (1) 31:21 altered (1) 158:3 alternative (4) 28:15;139:23; 231:24;250:21 alternatives (6) 49:13,22;68:16; 148:12;219:18; 241:22 although (4) 185:12;203:16;

affected (1)

230:13;240:18

altogether (1) 128:19 always (21) 29:1;39:20,24;40:6; 42:3,4;76:6,12;79:3,7, 8;113:2,3,20,24; 116:16,18;128:2; 141:14;160:25;252:2 Amy's (1) Alzheimer's (1) 15:13 amazing (2) 16:20;24:23 ambient (1) 65:10 Amen (1) 135:6 and/or (1) amending (1) 68:22 170:2 amendment (2) Andre (1) 174:3;240:9 219:6 America (5) 63:8;81:20;119:11; 167:18,19 American (24) 19:5;51:18;61:9,20; 63:6,9;64:12,23; angles (1) 65:15,25;66:6; 103:23;104:1;142:22; 163:14;167:13; 212:23;213:6;219:25; 220:10;221:2;223:18; 224:8:255:9 American-produced (1) 142:23 Americans (1) 213:5 amino (12) 35:16,19;47:20; 149:5,7,11,17,20; 150:14;151:18;152:7; 153:14 ammonia (4) 36:13;150:15,18,24 among (2) 28:10;47:16 Anne (9) amount (16) 35:20,25;37:20; 48:3;57:25;88:6,7,11; 90:7;113:25;142:21; 152:6;154:18;163:8; 202:3;248:11 amounts (12) 95:2,3;149:20; 151:9;193:8;195:4,8, 238:7 22,25,25;196:12; 228:24 amplifying (1) 20 65:5 **AMS (1)** 211:16 Amy (31) 183:4 9:3,3,5;25:1;60:22; 61:4;82:9;85:10,11; 183:8

99:18:110:7:111:3: annual (3) 120:5.6:218:8 121:24;122:8;128:13, 15;130:10,11;134:12; annually (3) 146:11;156:3;165:1; 125:10.11:127:6 166:19;170:21;187:9, answered (1) 10;198:2;210:15; 196:23 214:4;224:11;253:4 antibiotic (1) 39:12 176:24 antibiotics (2) analogy (1) 39:5:226:13 178:12 antidote (1) analysis (4) 68:5 119:19;134:19; anti-inflammatory (1) 213:22;235:2 67:20 analyzing (2) anti-organic (1) 122:15;215:6 30:2 antiquated (2) 191:25;194:24 anymore (6) 45:19;97:21; Andrea (7) 123:10;194:7,18; 5:1;11:1;13:17; 207:6 95:22;96:6,10;198:23 anything's (1) anecdotally (1) 42:23 162:14 anyways (1) 173:13 179:15 apart (1) Anheuser-Busch (1) 165:24 217:17 apologize (5) animal (36) 66:25;99:20;116:3; 32:9:36:15:37:1.4. 202:17:237:11 6:38:1.15.18.22: app(1)39:14:40:4.5.7.10.19. 132:5 23;43:1;44:8;67:10; apparent (1) 39:7 69:10,13,16,18,20; apparently (1) 70:5;104:4;128:12; 150:12;151:25;152:3, 61:25 12,23;153:1,10,17; appear (1) 240:10 84:21 animals (17) applaud (4) 33:10;38:19,24; 83:19;98:10; 39:10:44:11.14; 128:13:220:25 45:19,24;47:6,12,21, apple (2) 22;64:5;67:23;68:24; 158:9,11 70:1;73:2 applicable (1) 231:19 225:2;227:21; application (5) 230:13;233:6,10; 28:24;47:17; 155:21;203:15;226:1 235:6,7,11,14 Annette (5) applied (6) 191:6;198:24; 23:3,8;180:20; 199:5;201:22;202:10 201:19;206:25;208:6 Annie's (1) applies (2) 172:24;178:24 annotation (5) apply (11) 47:7,15,18;68:19, 23:5;35:11;137:2; 144:6;166:11,12; announce (3) 169:24;173:4;195:8; 12:12;27:16,19 208:3;231:20 announcement (1) applying (3) 110:11;170:16; announcements (1) 171:24 appreciate (112)

19:2;20:12,24; 130:23 21:19:23:20:26:11: April (2) 256:17,24 33:19;34:2;35:4;38:7; 41:10;43:14;50:14; apt (1) 55:12;56:20;61:6; 178:12 62:7;63:14,16;65:14; aquatic (2) 66:11;69:9;70:8;73:6; 31:15.19 77:22:79:21:85:9; area (36) 14:24;15:2;18:3; 86:11;87:10;90:16; 92:10;93:6;95:6;98:1; 25:11:29:14:37:9; 99:10;100:25;105:3; 42:3;49:20;54:8; 67:10;74:19;76:3,4; 106:6,13:108:24; 111:16;113:20; 77:3;78:23;79:6;80:2, 114:13;115:9,11,12; 7,10;81:14,18;82:4, 117:3,24;122:5,11; 12;84:3;100:9;131:1; 123:1;125:18,23; 132:8;144:11,12; 126:6,22;127:17; 146:5;170:15;173:4; 178:23;179:3;180:24; 130:14;132:10; 134:11;138:7;140:3, 197:7 6;145:10;146:10; areas (10) 150:11:151:4:152:19: 19:12;42:9;60:18; 84:25:90:13:125:5: 153:22;158:25; 161:12,15;162:12,21; 169:9;214:14;215:13; 164:20:166:3:167:3: 236:10 172:8;174:8,12; Argentina (4) 177:9,11;179:11; 102:1;141:25; 184:3;187:2,6; 142:4;234:3 189:17:190:25; argue (1) 191:19;194:19; 246:12 196:15:205:8:210:9. arguments (1) 18,21;213:11;215:19; 173:8 219:1:221:10.11: arid (1) 224:18:227:10.15: 189:9 230:9:235:12:246:7. arise (1) 13,18;249:13;251:4; 208:13 253:1;256:1,3 Arizona (2) 133:7,11 appreciated (6) 22:18;94:2;98:17; arose (1) 115:14;166:15;209:5 252:16 appreciating (1) around (46) 111:19 13:23;18:10;34:3; apprehended (1) 35:10,11;36:5;43:18; 102:17 46:12;49:21;51:21, apprehends (1) 21;53:9,12;58:25; 102:9 66:9;72:5;74:19;76:2, approach (2) 4;77:4;78:10,23; 109:15;234:18 80:14;82:21;89:13; approaches (1) 95:9;96:19;97:21; 33:22 98:18;104:11;110:14; appropriate (4) 117:8;134:25;138:12; 108:22:203:20; 152:22,23;167:1; 232:17:241:8 175:17;179:3;180:25; appropriation (1) 202:2;205:12;213:13; 246:22;254:17; 17:7 approval (2) 256:16 68:25;168:18 arrive (1) 129:8 approved (6) 168:20;171:19; arrives (1) 231:23;240:2;241:24; 130:25 245:16 arriving (2) approximately (1) 234:14.24 192:5 **ARSENAULT (37)** 4:3;8:23;9:2,5,11, apps (1)

- Vol. 2 April 25, 2024

Burke Court Reporting & Transcription (973) 692-0660 (3) altogether - ARSENAULT

14,17,22,25;10:3,6,9, attendees (1) 12.15.21:12:24:13:2. 4:20attending (1) 4,8,11,19;26:16;27:2, 5,8;46:9;50:18;57:3; 7:24 75:14:96:5:106:25: attention (5) 118:23;119:4;123:13; 181:23;246:21;254:5 articulate (1) attract (1) 104:9 207:1 ASCM (1) audio (3) 243:14 audio-like (1) aside (3) 24:10;48:12;56:3 107:4 aspect (4) audit (2) 55:13;138:14; 84:11:121:6 175:9;220:19 audited (1) 229:2 aspects (3) 45:10;205:15; auditing (2) 206:14 assertion (1) audits (4) 61:8 assess (4) 42:5,19;117:11; Audre (6) 223:14 assessing (1) 43:1 Assessment (4) 38:25 authenticate (1) 168:14:169:3; 204:25;253:12 212:12 assessments (1) authenticity (2) 116:8 assist (1) authorities (1) 231:7 102:23 assistance (3) authority (4) 83:20,21;168:10 authorize (1) Assistant (5) 7:16,20:70:18; 157:19 authorized (2) 72:10:75:7 assisting (1) 255:7 associate (2) 113:4,15 availability (5) Association (7) 46:20;107:18; 119:10;159:18;182:6; available (24) 225:8;230:20 ASTM (3) 240:12,21;244:21 ASTM's (1) 242:15 astounds (1) 65:12 Atropine (1) 68:5 avenues (1) attached (2) 190:2 47:11;94:11 average (4) attacks (2) 8:18:12:6 averaged (1) attempt (3) 254:22 114:4;129:16; avoid (2) 247:22 8:18;217:17 attended (1) aware (17) 7:23

36:10:44:23:69:13: 94:4.8.14.14:118:7: 150:4;159:24;166:15; 244:25;248:21 awareness (2) 103:6;128:8; 34:11;38:25 169:11;227:2;236:5 away (5) 37:21;82:3;160:25; 195:10;197:9 Awesome (9) 10:18;118:9;119:4 26:7;70:21;97:11; 107:16;123:22,23; 132:13;146:8;147:24 awfully (1) 139:19 В 111:11;115:18 back (79) 6:5;7:23;8:21; 84:19;109:18; 11:14;13:1,9,23;14:4; 112:3:115:25 15:12;21:20;26:22; 30:1;38:5;39:19; 210:25;216:2; 40:13,18;42:18; 219:5,7,8,11 46:12;55:21;65:11; authentically (1) 73:17;75:7;92:15; 94:1;95:9,20,21; 104:14;106:14,20,21; 107:10;116:25;118:8; 123:16,18;126:11; 211:12:220:20 132:18:133:15: 136:25:137:10.18; 151:19:162:10: 170:11;172:1,4; 84:4,7,9;111:22 174:14;176:24;177:6; 178:20;179:14; 181:21;185:2;186:19; 191:4,9;192:22,25; 131:4;158:6 197:25:198:10; automatically (2) 207:24:208:3.11: 165:21;229:6 221:7;227:19;228:15; 239:20:242:1:246:2. 79:9;138:10; 5,11,19,20,21,22; 199:13;204:6;214:10 254:1;256:6,9 background (2) 5:7;6:12;28:16; 97:23;240:1 backgrounds (4) 33:5;67:21;68:1; 94:7;140:4;222:15, 74:12;79:12;94:9; 98:9;99:23;119:20; 16 120:9;136:22;148:16, backing (2) 24;150:4;201:3; 11:1:158:6 204:1:218:10:221:25: backup (1) 223:17,18;256:19 6:10 backwards (2) 137:12;139:19 bacteria (1) 104:21,23;234:4,5 151:2 bad (10) 28:3;44:7;97:10; 99:10,13:138:21; 153:13;194:7;217:24; 229:25 30:25;33:4,5;34:15; bag (1)

138:18 balance (5) 37:3;84:11,19; 119:19:235:1 balanced (1) 149:23 balances (1) 110:21 balancing (1) 201:9 ball (1) 63:13 ballgame (1) 15:3 balm (1) 28:12 ban (2) 239:2,3 bandwidth (1) 11:4bang-up (1) 180:10 bank (1) 99:11 bankrupt (2) 163:22;164:10 bankruptcy (1) 163:21 banks (1) 73:13 banned (3) 185:9:232:5:236:10 banner (1) 161:20 bar (3) 4:23;5:9,16 barely (1) 135:5 barge (2) 86:2:123:25 barley (2) 141:3;189:1 barn (2) 84:10;150:15 barrier (2) 77:9;206:3 barriers (11) 53:6,9;55:15,16; 59:8;72:17;143:7; 145:19;165:9;232:15, 21 Barry (14) 12:19,20,22;13:12, 15;21:20,20;22:1,22; 23:2;25:3,10;26:1,10 **Bartow** (1) 22:2 base (7) 92:5,7;138:12,17, 22;250:2;251:14 based (9) 8:13:83:24:100:4; 101:12;110:20;173:1;

- Vol. 2 April 25, 2024

184:19;216:7;226:12 basic (1) 37:4 **Basically** (17) 51:11,18;52:6,21; 53:19,22;54:19; 55:16;56:7,12;80:13, 17:96:19:131:11; 171:15;173:8;193:10 basis (2) 35:4:104:20 baskets (1) 249:8 battle (2) 41:4;228:18 battles (1) 35:21 bean (1) 81:3 beans (11) 55:15;56:6,20; 76:10,21;79:1;81:6; 101:21;194:12,15; 209:3 bear (2) 10:18;19:2 bearing (1) 235:3 beat (2) 11:2:138:5 beater (1) 113:24 beating (1) 135:4 became (3) 34:14,15;45:1 become (9) 18:4;33:12;40:8; 41:1;101:22;160:24; 190:22;200:13;246:2 becomes (2) 162:10:250:4 becoming (2) 129:24;160:9 beef (21) 15:5,6;16:9;19:1,2, 4,4,8,17,19;20:2; 44:17;71:5;72:25; 88:14;94:23,25; 129:3,5,6,13 beefing (1) 181:11 beefs (1) 16:12 beep (1) 7:12 beet (3) 63:25;92:5,6 beets (1) 92:7 beforehand (1) 86:20 began (1)

160:22 76:22:78:11.16; 37:8 19:24:2.22:25:10.16, 20:256:13 begin (4) birds (5) boards (1) 81:22.25:83:17.23: 18,22,25;26:4,7; 37:8,9,21;150:18; 45:17;232:3; 87:12:88:22.23; 28:25:29:16:30:21; 183:16 Board's (2) 235:22:255:14 97:11;99:20;103:11; 151:19 32:22,23;33:16,18; beginning (5) birthed (1) 8:14:35:11 112:1;149:24;161:21; 34:3;35:1,7,10,11,15; 12:3,14;13:6; 36:7,18;38:6,12; boat (1) 166:24;180:9;183:7; 131:8 108:12;255:7 197:16,20;199:15; bisphenol (1) 39:23;40:17;41:10, 72:6 begins (1) 200:7:215:7:219:18; 236:1 16;43:13;46:21; boats (1) bisphenols (3) 236:18 221:2,4;245:10; 47:16;48:18,25;49:7, 166:1 Beglev (13) 251:10 236:7:237:14:244:1 10;50:3,8,11,13;53:2; body (2)27:22;46:6,10,15, beyond (8) bit (52) 54:4,7;55:4,10,24; 43:2;112:19 32:10;88:1,5;93:1, 18,19;48:22;49:3,23; 9:19;15:3,5;19:8; 56:16:58:10,13,16,18, Boeing (1) 50:7,9,12,14 3,4;175:15;248:22 23:3;27:15;32:24; 22;59:1;60:16;61:4; 98:5 behalf (6) **BF** (1) 33:20;34:7;36:22; 62:7,13;63:12,14; bolster (3) 67:7;83:5;166:7; 22:1 45:13;49:20;61:8; 65:21;66:11;67:7; 138:9;220:21; 168:6;230:21;232:19 bias (1) 71:9;78:6,8,16;79:16; 69:5,7,8;70:8;72:10, 221:18 behavioral (1) 31:12 80:1;81:3,22;82:12; 13,24;73:6;74:3;75:2, bonds (2) 102:24 biased (3) 9;79:25;80:24;81:16; 243:23,24 93:10;105:10;111:4; behind (11) 31:9,11;70:6 113:23;115:21;117:4; 82:7;83:1;86:13,24; **book** (5) 95:11,12,20; bid (4) 124:6;126:24;138:14, 87:12;89:3,8,10; 15:16,24;16:1; 90:11;91:1,3,23; 103:14;117:21; 21;143:23;160:24; 20:25;143:8 192:6,8,11;249:22 118:14;135:23;191:4; big (23) 161:17;164:6;165:13; 92:10,13,15;93:8; booming (2) 202:18;218:19; 14:15;28:13;33:23; 171:21;172:14; 97:24;98:1,16;99:17; 31:22;32:6 103:18;105:3,7; 239:10 57:18;73:25;78:23; 174:20;180:12;181:2; boosted (1) 92:9;131:20;132:17; 106:5;108:17;110:4; belief (2) 187:20,23;188:7; 64:11 224:17;229:13 boots (1) 133:13;144:15; 189:20;193:19; 113:19;114:11;115:4, believers (1) 160:10,20;161:6; 9;116:12;117:24; 201:16 206:16;213:13; 223:21 162:11;164:11; 239:14;249:22; 121:13,18,23;123:11; boots-on-the-(1) believes (2) 180:20;187:21; 250:10 125:23;126:22; 84:14 225:22;226:9 197:13;209:7;210:2, **BJ** (9) 132:15;134:11;135:6, border (1) below (10) 11:243:12 191:6.11.16; 10;138:4;139:8,20; 57:22 193:16.19:194:22: 64:18:83:11: bigger (6) 140:2.8:142:19: borders (2) 120:10;121:2;122:17, 38:25:52:8:163:15; 198:3,17:210:1 143:11;145:15;146:9; 200:24;228:11 Black (3) 18,21;142:2;192:13; 164:4;194:15;251:18 150:4,8,17;151:4,7, born (3) 120:7;214:12,21 97:8;119:22;120:17 250:17 biggest (6) 24;152:9,16,18; Bend (2) 56:8;76:8;145:19; blend (4) 153:21;155:23; borne (1) 200:17;253:17,18, 16:13;126:24 188:1;217:4;228:4 158:21:159:4,10; 141:14 20**Both (20)** benefit (4) Bill (4) 161:14;162:12,20; 44:8:108:6:160:21: 17:8;120:14; blending (1) 7:1;19:6;21:14; 164:19;166:6,21; 220:22 128:14:132:13 61:20 171:3:172:11:173:7. 31:1:41:20:53:18.18; benefits (7) **Billings** (1) blessing (1) 22,24,25;174:7,11; 69:3;117:17;124:18; 30:1:64:5:70:2: 90:19 255:4 175:16;176:2,13,15, 148:24;149:4;171:13; 129:6;248:22,25; billion (3) blew (1) 18;177:8,14,18;179:7, 185:14;206:23; 249:3 65:9;243:4,5 212:21;225:11,23; 98:6 14;181:1,25;182:7; benign (2) blindness (1) 183:14;184:3;187:1; 231:9;247:21 bills (4) 237:23;244:5 155:6,7,14;193:3 189:19,25;190:6,8,25; both/and (1) 150:21 Bloc (1) best (22) bin (4) 191:5,18,19;193:18; 114:15 bothering (1) 192:5,11,16,17 18:24;24:16;36:2; 185:7 194:19,22;196:15,22; 39:22;43:7,25;44:5; bins (1) bloom (1) 198:1;199:7;201:22; 239:13 97:17;109:11;112:20, 146:3 151:3 202:8;205:7,20,22; bottlenecks (4) 23;142:7;155:8,10; bioavailability (2) Blue (1) 206:21,23;207:18; 59:8:126:4:134:13; 158:23;186:4;198:15; 42:13.24 51:3 208:24;214:3,17; 208:10 203:17;217:24;226:4, biodegradable (1) blunt (1) 215:21;218:23; bottling (2) 20;255:23 133:20,24 161:10 221:10;222:1,5; 28:3 biodegradation (3) **Board** (288) 223:2,5,15;224:9; best-case (1) bottom (4) 243:18;244:17,21 4:7,16,17;5:4,17; 227:7,9,12;235:5,10; 133:12 7:1;100:4;134:9; 8:13,15,22;9:10,13, bet (5) biodegrade (2) 237:6,16,20;238:9,18, 251:16 76:1;77:24;79:22; 243:14:245:9 16,21,24;10:2,5,8,11, 22;239:9,16;242:6,22, bought (1) 95:5;245:3 biological (1) 14,17;11:6,9,17;12:9, 24;243:3,8,19;244:9, 194:2 better (40) 240:20 16;15:25;16:5,16,18, 14;245:6;246:7,16; bouncing (1) 30:7,8;32:25;41:23; biopolymers (2) 23;18:17,23;19:7,16, 249:13;250:9,20; 104:11 43:4;44:13;45:22; 240:17,25 22,24;20:2,5,11,15, 251:3,6:252:10,25; box (4) 53:13;65:15,16;66:2; bird (1) 20;21:4;22:24;23:1, 254:10,16;255:10,13, 6:19;45:11;191:21;

214:21 bov (1) 102:15 Bovda (6) 75:20;82:19,25; 83:2;85:24;86:16 Bozeman (1) 90:2 **BPI** (2) 240:7,13 **BPI's** (1) 240:9 Bradley (1) 196:22 brand (2) 87:24;217:16 brand-name (1) 172:18 brands (2) 116:15,19 Brazil (2) 101:20;102:1 breach (1) 130:6 breached (1) 28:5 bread (1) 249:8 breadth (1) 186:13 break (16) 75:21:82:22:89:5: 95:11,21;118:12,13; 168:3;181:21;191:3; 228:17:232:15; 240:19;241:1;243:10; 244:10 breaking (2) 27:14:241:15 bred (1) 100:9 breeding (2) 129:10;181:7 Brian (8) 9:12;33:17;72:12; 151:23;158:20;173:6; 237:4;242:23 bribe (1) 102:22 bribery (1) 185:14 briefly (3) 4:20;194:22;233:14 bring (11) 38:25;60:8;75:3; 83:25;137:10;166:7; 185:1;197:8;202:23; 208:10;253:21 bringing (7) 19:2;61:19;108:11; 141:9;183:9;193:8; 237:7 brings (2)

111:12:249:5 108:2,18:114:8; broadcast (2) 144:1,18;166:25; 195:9;256:19 221:2;251:14,14 built (3) broader (1) 225:18 64:9;73:11;222:14 broiler (1) bulk (4) 148:3 128:14;130:20,22; broilers (1) 234:14 149:8 bump (1) broker (1) 123:18 40:10 bumped (1) 134:25 brood (1) bunch (7) 36:21 brother (4) 5:11;13:20;26:17; 14:18;17:16;18:10; 75:15;86:3;97:12; 199:8 196:18 brothers (3) Burcham (7) 26:25;27:10,11,13, 16:8;17:20;102:24 17,20,25 brought (11) 64:18;87:23;90:20; burden (3) 133:5;152:22;165:3; 48:8;134:23,24 198:14;208:1;215:21; bureaucracy (2) 220:9;221:11 14:23;70:5 Bruch (58) Burger (2) 9:3,4;25:2;60:23; 19:14,18 70:13;75:11,19,23; bus (1) 76:1,2;77:20,24,25; 45:15 78:4,18,22;79:22; bushel (7) 80:4;81:4,21;82:8,10, 104:22;120:11; 16:85:12:99:19: 144:14:145:17; 100:21;110:8;112:16; 187:18,18;252:12 122:9.24:128:13: bushels (7) 130:12:132:10; 56:10:104:20: 146:12;147:9;156:4, 229:4:234:4:254:22. 22.23 25;165:2;166:3,18; business (30) 170:22;171:1,17; 4:17,17;18:9;51:5, 172:8;187:11;188:15; 9:52:1:53:14:98:5.7. 189:17;198:3;210:16; 213:11;214:5,15,24; 10;99:5,8,12;103:13, 215:9,19:224:12; 21;124:5;126:18,20; 253:5,22 133:25;160:24; Brunquell (14) 162:25:163:6.23; 239:20;246:24,25; 164:18;199:8,12; 247:9,9;250:1,14,23; 216:11,17;217:20; 249:16 251:5,20;252:15; businesses (6) 253:3,14,24 brunt (1) 64:2;136:17; 216:16;219:13;220:7; 194:13 brushes (3) 222:14 47:10,12,12 bustling (1) bucks (2) 163:3 77:8:145:17 busy (3) buckwheat (1) 61:7;65:22;140:6 189:3 Butler (1) **Bud** (1) 96:15 217:17 button (7) budget (3) 4:22;5:8,21;7:4; 17:7;104:16;162:9 50:19;57:5;75:17 bugs (1) buy (6) 86:19 22:13:101:12; build (2) 102:3;193:12,13; 112:14:252:9 250:8 building (9) buyer (4)

132:21:183:25; 209:14;251:11 buyers (5) 59:12:60:12; 103:10,13;253:10 buying (5) 54:15;59:11;194:7, 8:249:1 byproducts (6) 47:25:48:13.20; 50:10;151:25;152:9 Byron (1) 18:13 С **CACS** (5) 58:4;65:6;108:25; 128:6;134:12 CAFO (6) 15:7;19:3,8,17,19; 20:2calculating (1) 48:7 calculation (1) 218:24 Caldwell (19) 9:12;33:18;35:1; 72:13,24;151:24; 152:9,16:158:21; 173:7:174:7:237:6. 16,20;238:9;242:24; 243:3,8,19 calf (1) 92:2 caliber (1) 253:12 California (4) 9:16:133:7.10: 240:2 call (26) 4:21;5:17;6:13; 8:22,24;9:19;10:25; 11:5,6;12:11,17; 19:20;26:17;29:16; 50:18;61:2;93:9; 94:18;118:10;131:22; 135:20;187:7;193:25; 209:2;220:18;247:2 called (4) 6:21:21:10:118:10: 234:13 callers (1) 34:5 calling (5) 8:3;140:5;187:2; 234:1;254:13 call-out (1) 108:15 calls (3) 17:11;60:19;111:20 came (15) 13:9;15:2;16:6,14;

- Vol. 2 April 25, 2024

35:23:42:18:44:24: 120:8;134:1;137:18; 195:21.23:209:23: 213:23.24 camera (4) 6:24,25;7:1;66:24 Cameras (2) 6:24;8:24 campaign (3) 88:23;91:23;94:9 can (290) 4:23;5:9,10,10,12, 19,19,21;6:4,5,15,18, 23;7:5;11:4;12:13,22; 13:12,14,23,25;14:1; 16:23,24;17:2;19:20; 21:5,8,24;22:15;23:9, 22;24:5,18;25:4,6; 27:13,14,24;28:11; 29:18;30:7,18;31:25; 32:24;33:10,17,23; 34:2;37:8,9;38:20,21, 24;39:22;40:18; 41:19,22;42:5,11,22; 43:7;44:1,5,14;45:8, 22;46:17;48:8;50:19, 24;51:15;53:5,7; 55:14;56:9,9,19;57:5, 7,9,11;58:4;59:6; 60:8;61:11;62:2,3,14, 21;63:12,22;65:15; 67:1,22;70:17;72:1; 73:2,8;75:16,23,24, 25;76:17;77:3;80:6; 81:2,10,13,18,19; 82:23;84:11;86:21, 22:87:4:88:16:89:24; 92:1;93:23;94:22; 96:14;97:10,15;98:8; 99:10,24:101:4,7,8,9; 104:2,3,6;105:2,11; 106:24;109:1,19; 110:4;111:22,24,24, 25;112:14;113:16; 117:12;118:20;119:1, 2,6;123:8,20,22; 124:24;125:6;126:4, 24;127:13,21;129:9, 11;130:17,23;131:6,7, 8;132:2,24;135:17, 18:136:1:137:1.17. 19:138:14.24:139:4: 140:13,15,19;142:4; 143:4,6,18,19;144:3, 11;145:11,20;146:6, 16;147:17,25;149:1; 150:20;152:1;153:15, 17;154:2,3,4;155:7,8; 156:9;158:22;159:20; 160:5;161:4;163:14; 164:12;166:14; 167:10.23:169:3: 170:10;172:13;

- Vol. 2 April 25, 2024

Spring 2024 Meeting				April 25, 2024
170 10 14 170 0	240 16 242 24	126.2		15 00 16 15 10 00
173:13,14;178:3;	240:16;243:24	136:3	87:14;96:17;101:12;	15:23;16:17;18:22;
182:3,24;184:12,13,	card (4)	CBP (1)	108:23;110:23;	20:18,24;21:6,9,12,
15,16;185:25;186:3;	131:3,3,4,22	121:5	111:12;119:20,22;	18,23;22:20,22;24:1;
190:23;191:12,14;	care (6)	CC (1)	120:18;126:14;136:3,	25:1,2,9,24;26:9,14,
192:11;194:22;195:8,	32:9;68:6;188:18;	5:8	4;137:25;140:24;	20;27:4,7,9,12,14,18,
12;196:3;199:1,3;	209:16,24;223:1	celery (2)	141:12;157:24;	21;30:10;32:20;
200:20;203:6,13;	career (1)	203:6,9	160:16,22;161:1;	33:17;35:6;38:9;
205:16;207:18;	90:9	Celsius (1)	163:25;164:15;	41:13;43:15;46:2,4,6,
208:20,22;212:12;	carefully (1)	28:6	167:17;212:9;228:1;	11,16;48:15;49:9;
213:4;214:2,20,23;	222:6	cent (1)	239:25;240:12;241:4,	50:15,23;51:1;52:25;
217:1;218:4;220:21;	caret (1)	23:17	8,14;242:13,16,21;	54:3,6;55:7;56:23;
221:1,4;225:6;227:9,	107:5	center (6)	244:21;248:1	57:8,10;58:7;60:22,
23,24;228:9,13,15;	cargo (1)	4:23;18:13;96:19;	certifier (19)	23;63:18;65:19;
230:16;231:22;233:8,	131:12	235:21,25;238:24	44:21;84:18;	66:14,23;67:1,4;69:6;
18;234:3;235:18;	Carolyn (1)		107:19,21;108:12;	70:11,16;72:9;73:4;
		centers (2)		
238:10;239:22,23;	9:18	98:18;138:12	112:1,2,9;113:16;	74:1;75:5,10,19,24;
242:10;244:24,25;	carried (1)	Central (1)	114:6,20;115:18;	77:17,20,25;78:18;
245:22;246:1,3;	231:25	191:17	130:22;132:1,2;	79:18,23;82:9,10,18;
247:7,17,23;248:4,17,	carry (2)	Centric (1)	137:20;154:23;	85:9,12;86:11,25;
19;250:16,17;251:15,	218:15;228:17	239:24	155:13;212:12	87:7;88:25;89:9;91:2;
18;252:18;254:9,15	carrying (1)	cents (2)	certifiers (33)	92:12,14;93:7;94:3,
Canada (2)	99:2	142:4;252:23	31:2;32:24;33:13;	13,16;95:5,15,17;
102:4;182:14	cars (1)	CEO (2)	34:16,20;43:17;44:1;	96:2,7,10,13;98:13;
Canadian (4)	126:13	101:11;247:10	45:7,14;47:16;52:19,	99:18,19;100:21,22;
49:4;149:16,19,25	carton (1)	cereals (1)	23;68:24;102:23;	101:1,8;103:16;
cancel (1)	247:17	189:1	107:18,22;108:10;	105:6;106:10,14,20;
97:3	case (10)	certain (6)	109:1,5;110:9;	107:3,9,15;110:6,8;
canceled (2)	6:20;10:22;33:10;	36:15;113:3;175:6;	111:17,24;114:5,7;	112:16;113:11,17;
27:5;97:2	141:15,15;142:2;	188:10;195:5,6	115:1,19;116:6,13;	115:15;116:11;118:4,
cancer (2)	162:15;179:9;203:10;	certainly (14)	121:25;155:12;226:5,	7,18,25;119:7;121:9;
239:4,5	252:20	37:14;41:6;64:11;	10;240:13	122:8,9,24;123:3,16;
canola (2)	cases (7)	69:19;71:22;83:14;	Certifiers' (3)	125:20;127:1,17;
148:23;189:1	52:17;68:14;83:11;	97:13;113:8;150:22;	109:8,14;129:23	130:9,12;132:10,14;
capabilities (3)	129:18;150:21;	152:10,14;205:15;	certifier's (2)	135:8,13,16,18,20;
81:8;119:21;136:9	212:13;226:23	208:14;232:20	108:6;154:21	138:1;139:6;140:9,
capability (1)	cash (1)	certificate (3)	certify (8)	15,17;142:17;143:13,
100:1	126:11	200:22,25;231:21	157:20;158:6;	18;145:14;146:11,12;
capable (3)	Castro (1)	certificates (6)	159:25;160:1,4;	147:9,10,13,16,18,20,
52:5;53:24;55:2	58:19	41:2;103:14;201:4;	165:11;209:4;232:5	24;150:2;151:6,23;
capacities (1)	catalyst (1)	212:8;214:17;253:11	certifying (2)	152:17;153:22,25;
201:11	136:21	certification (39)	232:1,4	154:3;155:25;156:4,
capacity (6)	catch (1)	17:17;29:17;43:16;	cetera (2)	25;157:2;158:17;
84:16;100:1;108:2;	150:14	57:20;69:22;70:5;	4:17;226:2	159:3,11,14;161:12;
128:7,16;250:19	catch-up (1)	102:5,20;103:9;	CGB (4)	162:19;165:1,2;
capital (5)	142:24	107:23;108:5,21;	124:1,13;126:9;	166:3,18,20;167:25;
109:7;189:21,22;	category (1)	112:19;116:17;	127:5	170:18,20,22;171:1,
219:15,23	210:5	128:18,20;129:1;	chain (29)	17;172:8,10;173:6;
capitalism (2)	cattle (11)	141:18;154:8,24;	31:25;85:21;103:4,	174:10;176:12;
165:23;209:8	41:8;69:2,3;70:3,	157:19;158:5;159:23;	24;109:3,18;112:3;	177:15;179:13;180:6,
capitalize (1)	23,25;71:2;129:7;	160:13,17,18,22;	124:13,15,17,22;	23;181:13,16;182:2;
232:9	156:21,22;182:5	162:5;163:11;167:9;	128:7;146:18;193:23;	183:12;184:10,13,15;
captain (1)	caught (2)	175:24;186:1;189:15;	199:24;200:6;205:3,	186:23;187:9,11;
131:13	9:8;70:4	190:14;200:10;	18;211:11;212:17;	188:15;189:17,18;
captioning (2)	cause (4)	211:19,23;212:18;	213:5,7;220:10;	191:2,9,15;193:16;
5:7,10	67:21;151:3,19;	231:23	226:17;229:25;230:1;	194:21;196:21;198:2,
capturing (2)	239:5	certifications (1)	234:7;249:5;252:3	3,17,19,23;199:4;
178:1,4	caused (1)	247:17	chains (4)	201:20;202:10,13;
car (1)	141:14	certified (52)	85:17,19;102:3;	205:4,21;206:22;
126:20	causes (1)	14:19,21,24;15:5;	109:19	208:15,18;210:14,16,
Caraman (1)	239:4	18:12,14;19:9,20;	chair (307)	22;211:4;213:8,11;
39:24	causing (3)	25:20;54:1;55:3;	5:17;8:15;9:1,4;	214:4,5,15,24;215:9,
carbon (4)	24:12;83:13;154:13	57:14;63:24;70:23;	11:9,11;12:25;13:3,5,	19,20,23;218:11,17;
46:25;48:11;	Cazenovia (1)	71:5;73:1,20;83:13;	10,12,17,22;14:11;	219:3;221:8;222:4;

224:11,12,20,22; 191:6:198:19.21 chose (1) cleaned (1) 225:5:227:4.15.18.24: Charlotte (1) 163:25 144:20 cleaner (2) 230:5,8,12;232:24; 75:11 chosen (1) 233:2,6;235:6,14; chat (20) 192:22 39:15:146:2 237:1,3;238:16; 4:22,22,23;5:2,5,6; chunk (2) cleanest (1) 239:18;242:3,23; 6:17,19;8:18;10:22; 82:22;118:11 228:19 244:8,24;245:3; 21:2,6,12;26:21; circle (7) cleaning (5) 92:20:144:1,3,10; 246:17,22;247:1; 66:19:94:17:95:6; 13:23;26:22;46:12; 249:10;253:4,5,22,23, 118:20;119:1;230:15 95:9;181:20;185:2; 146:2 25:254:6.8:255:17; Chats (2) 246:22 clear (11) 256:2,6,11 4:25;5:3 circles (1) 57:21;64:19;71:20; chairman (1) 85:18 106:8;110:25;114:10; cheap (2) 30:21 56:21;137:11 circling (1) 119:21:158:22: challenge (9) cheaper (14) 106:20 184:18;218:16; 54:24;76:9;77:6,9; 60:13;62:4,5,9,14, circuit (1) 245:17 141:17;165:7,9; 19,20,21;129:9; clearly (1) 165:24 170:12;173:3 138:25;194:16; circular (4) 12:8 219:17;248:18; 28:19;241:10; click (1) challenges (12) 246:3,10 51:24;52:11;55:17, 250:21 5:7 25;56:5,8;58:6; cheat (2) circulate (2) clients (2) 170:13;206:1;220:10; 102:25;103:10 20:25;34:2 68:25:101:14 Climate (2) 224:16:226:23 cheating (5) circumvented (1) challenging (2) 102:12,13;132:21; 185:13 28:6;93:12 climates (2) 80:23:175:15 134:8;159:9 circumventing (1) champion (1) check (2) 185:23 49:17:75:1 clinical (1) 219:20 45:11;84:14 citric (1) chance (5) checks (1) 181:5 69:1 City (3) 67:7;71:24;72:7; 109:20 clippings (1) 169:22 87:10;111:10 cheese (3) 96:16;99:11;147:5 change (20) 237:25:238:2,5 claimed (1) close (9) 5:10,12,13,13,24; chemical (3) 120:24 25:11:77:5:82:3; 16:7:36:2:76:25:78:2: 124:20:125:4: claims (2) 159:25:198:10:213:2: 84:2:97:11:108:10; 127:11 221:25:247:18 240:4;245:11;246:6 114:1;166:7;180:7; chemicals (7) clamshell (1) Closed (3) 198:13,14;200:20; 5:7;111:8;201:6 125:9;127:14; 166:23 206:19;248:12 157:8;236:6,8; clap (1) closely (1) 237:18:244:3 222:12 changed (7) 251:7 15:3:16:7:44:22: chew (1) clarify (1) closer (2) 145:2:149:16:185:19: 219:1 78:8:99:14 113:11 186:9 chicken (3) clarifying (1) closes (1) changer (1) 153:18;177:9; 55:5 111:10 57:15 250:24 clarity (2) closest (1) 47:15;180:25 changes (3) chickens (3) 154:24 closing (1) 24:11;98:22;138:13 36:13;79:11;249:3 **Clark (26)** chickpea (1) 7:15,19,20;12:21; changing (4) 232:18 20:3;125:9;129:7; 141:2 13:22;14:1,2,4;16:8; cloud (1) 230:25 chickpeas (3) 17:19;18:21;19:6,13, 90:23 18,23;20:1,4,6,14,16, channels (2) 141:25;142:3; **CMA**(1) 136:23;198:12 143:24 23;21:2,5,8,10,13 240:13 Chapman (16) chief (1) Clarkson (10) **co- (1)** 20:17:154:1:157:3; 131:13 101:5,7,10,10,11; 28:18 159:14.16.17:162:2. children (2) 104:5;105:5,14; CO₂(12) 18;163:17;164:22,25; 91:17,20 106:9,12 31:16,20;49:11,14, 165:11;166:9,19,22; chime (1) class (1) 15,22,24;50:3;241:1; 167:4 173:19 68:24 244:11,18,19 Chapman's (1) China (2) classes (2) Coast (5) 15:10 102:1;183:3 172:19;175:6 4:6,7;126:16;132:6; classified (1) 136:7 character (1) choice (1) 12:7 250:6 240:18 coastlines (1) chard (4) choices (1) clean (11) 105:25 203:6:204:17: 223:25 41:8,9;47:10;77:9; coasts (1) 206:8,11 choose (3) 81:13;91:13,15,22; 105:20 Charles (3) 11:20;220:5;229:1 92:9;101:22;248:22 cobalt (5)

- Vol. 2 April 25, 2024

195:22;196:1,2,10, 18 Cochran (1) 58:20 codes (1) 102:8 co-director (1) 159:17 coffee (1) 241:25 colder (3) 49:17,17,20 collateral (1) 73:13 colleague (1) 107:22 colleagues (1) 185:18 collect (2) 162:14;203:22 collected (1) 169:22 collection (1) 241:3 collective (2) 83:6;84:24 college (1) 97:8 colloquial (1) 252:2 Colorado (2) 96:23:154:7 combine (1) 100:8comfortable (2) 37:17;178:2 coming (47) 15:16;17:14;18:2; 20:21;25:12;45:24; 48:3:51:16:57:19.22; 60:10;62:9,9,15; 63:25:76:13:77:16; 85:25;86:2,15;95:23; 103:2;125:12;130:22; 132:4;137:15;138:25; 139:24;141:25;142:8; 148:8;158:15;165:19; 170:5;179:14;183:3; 193:21;202:4;206:25; 208:23;209:10,20; 223:23:242:8:244:7: 249:7;253:10 commanded (1) 223:19 comment (32) 4:14,15;5:4;7:9,23; 12:3,5;31:17;57:24; 58:7;65:19;77:13; 87:11,11,18;89:4; 90:16:93:8:107:18: 110:5;117:7;128:2; 132:18;155:24;172:1; 184:7,20;198:6,6;

Min-U-Script®

Burke Court Reporting & Transcription (973) 692-0660 (8) chairman - comment

169:11

102:21

200:4

199:23

112:1

45:6

188:20

88:5

226:25

52:12

240:6;245:6;254:16 commentary (1) 187:2 commented (1) 215:1 commenter (2) 7:10;133:3 commenters (6) 5:16;39:8;41:14; 89:5;124:6;247:4 commenting (2) 83:5:210:18 comments (119) 11:25;13:6;21:19, 25;22:4,19;23:2; 26:12;30:13;33:19; 38:1;40:21;43:13; 46:22,24;48:18; 50:15;52:25;53:3; 54:8;55:11;58:11; 61:5;67:7;69:9;72:14; 73:7:74:4:75:6:79:21: 83:1,12;85:8,10,14; 86:25;88:25;89:6,11; 92:11;96:19;98:17, 18;103:16,19;104:10, 11;105:8;107:20; 109:22,23;110:3,13, 16,17;111:15;112:17; 113:20;117:12,17; 119:24;121:9;122:25; 123:3:125:24:128:5. 9:130:13:132:16; 138:7;139:9;143:12; 145:16;158:17; 159:11;161:15; 162:21;166:6;168:6, 11.14:170:2.13.23.23: 174:13:186:14.15.21: 191:1;193:18;196:23; 198:4:202:16:213:12: 214:9;218:20,23; 222:2,6;226:8; 227:16;233:3;235:11, 15;237:7,10;242:7; 246:13,17;249:14; 251:4,8;253:1,7,23; 255:14;256:3,13 commerce (1) 103:4 commercial (4) 102:7:240:1: 241:15:243:16 commit (1) 110:1 commitment (7) 24:22;83:14;108:2; 122:10;130:14; 219:14;231:4 commits (1) 108:18 committed (2) 107:25;231:1

Committee (4) competition (7) 8:14:14:11:36:18: 52:12;57:19;64:12, 23:165:16:182:23: committing (1) 183:22 competitive (5) commodities (6) 81:2;249:8,18,20; 124:11,18;127:7; 255:1 competitiveness (1) 184:21:199:25; 223:18 232:11 competitors (1) commodity (3) 128:24;191:23; 251:23 complete (3) 8:11;58:3;241:17 common (8) 166:25;167:12; completed (1) 189:8,13;196:10,20; 84:11 225:20;234:24 completely (1) commonly (1) 205:2 complex (4) 85:17,19,22;224:6 communicate (1) complexity (4) communication (1) 86:5;107:23;108:5; 177:21 communities (3) compliance (8) 220:8;241:2,21 109:1,8,11;116:7; community (19) 130:3;134:9;172:7; 29:24;59:2;71:21; 218:10 72:1;92:21;132:19; complicated (1) 136:16;163:4;168:8; 18:17 178:3,9;194:10,10; complication (1) 201:24;240:3;247:19; 178:25 250:15;251:15;252:9 component (1) companies (9) 225:21 components (1) 19:11:43:6:52:8; 54:20,22;55:1; 244:5 131:21;183:5;216:16 compost (23) company (12) 161:10;168:15; 18:2;100:4;101:11; 169:13,14:170:24; 171:5,12,16,19; 123:25;127:2;140:23; 185:15;190:1;199:6; 236:13;240:2,6,10,10, 216:20:238:6,6 22,25;241:3,6,13; comparatively (1) 242:8;243:17,23; 246:2 compare (2) compostable (12) 187:16;188:8 239:25;240:7,12; compared (1) 241:5,8,12,14,18; 204:14 242:10;243:10;244:4, 21 comparing (1) 122:13 compostables (1) compelled (1) 245:18 composters (3) compensated (1) 169:18:240:14; 241:23 compete (15) composting (3) 52:12;60:7;64:24, 169:17;240:1; 25;73:9;100:19; 244:11 142:4;193:13;194:3, compounds (6) 14;209:9,10;210:8; 121:17;236:1,2; 250:11,13 238:3;243:22;244:1 competed (1) comprehensible (1) 12:10 competing (6) comprehensive (2) 15:6;120:19;142:8; 31:4:171:2 166:23;210:8;229:23 comprise (1)

83:6 compromise (1) 38:4 compromising (1) 205:18 computer (1) 9:9 concept (4) 41:19;83:16; 169:25;200:13 concern (15) 23:17:30:24:50:9; 71:12;75:4;83:7; 102:25;103:20;153:1; 170:15;173:24;176:5; 217:4;240:24;244:2 concerned (8) 52:5,11,16,19; 53:17,18;91:17;154:9 concerns (10) 12:10:29:3:51:10; 65:5:84:23:199:12: 204:1,5;243:9;253:20 condition (2) 101:13;197:23 conditions (7) 68:17;128:22; 154:15:156:17; 203:23;220:23; 223:14 conduct (1) 43:12 conducted (3) 203:4:204:11: 241:11 conducting (1) 89:14 conference (1) 139:10 conferences (2) 39:4;255:7 confidence (9) 64:7;101:24;121:7; 176:6;215:17;220:22; 221:18;226:22; 227:10 confinements (1) 209:3 confirm (1) 234:25 confirming (1) 203:16 confused (2) 87:22;92:17 confusing (1) 92:18 confusion (6) 87:16;88:11;90:23; 93:17;155:12;221:24 congratulate (1) 255:13 Congress (3) 17:1.6:133:14

- Vol. 2 April 25, 2024

Congress' (1) 17:10 conjunction (1) 22:7connected (1) 146:3 connection (1) 207:19 consciously (1) 216:22 consequence (1) 103:11 consequences (2) 203:15:206:9 **Conservation** (2) 22:7;23:13 consider (11) 32:5;47:17;62:9; 108:9;169:23;232:15; 233:18;242:18; 246:14;254:24; 255:10 considerably (1) 213:22 consideration (8) 30:22;69:17;71:17; 169:7;170:7;235:13; 251:17;254:16 considerations (2) 18:19:150:19 considered (8) 31:17:38:3:93:2: 109:9,12;131:1; 149:10:213:4 considering (4) 107:19,21;169:4; 242:12 consignment (1) 120:22 consistency (6) 28:25;29:14; 116:18:204:6:220:15: 252:24 consistent (6) 28:24;92:23; 157:18;204:22;205:1; 206:15 consistently (2) 71:3;201:19 **Consolidated** (2) 123:25:211:15 consolidation (1) 162:22 constant (3) 36:8;102:15;215:5 constantly (2) 125:9;178:9 constituents (1) 152:13 constraint (2) 102:21:128:7 constraints (4) 105:13;109:7;

Burke Court Reporting & Transcription (973) 692-0660

(9) commentary - constraints

- Vol. 2 April 25, 2024

Spring 2024 Meeting	1	1	T	April 25, 2024
126:5;128:17	7:22	231:11;241:5,23;	234:11;235:12	19:18;61:21;74:22;
consultancy (1)	continue (29)	242:1;248:8;255:2	corporations (1)	82:1;87:14;99:4;
211:6	4:15;8:1;100:24;	conversation (13)	193:6	108:15;120:17;
consultant (3)	102:21;109:14;110:4;	35:10,15;66:4;	correctly (2)	126:18;163:17;
34:10;107:17;	125:10,11;126:21;	69:10;91:9;165:3,8;	153:8;172:11	194:13;200:4;215:12
127:25	137:2;144:17,18;	177:12;181:14;	corruption (1)	courses (2)
consultants (1)	168:17;178:10;	187:12;224:15;250:4;	234:24	89:13,20
130:3	180:16;181:14;	251:15	cost (33)	court (1)
consulting (3)	201:17;208:4;216:25;	conversations (4)	22:11,14;45:17,19;	99:4
30:20;185:6;255:7	231:14;232:21;	40:20;112:22;	53:6;64:18;105:19,	Courtney (2)
consumer (29)	233:16,18;234:13,19;	186:16;222:17	20;106:3;120:10,13;	247:3,5
20:8,8,10;28:7;	246:3,6;255:8,15	conversely (1)	133:9;144:4,14;	cover (5)
40:3;64:6,8;69:13,17;	continued (5)	161:24	161:16,23;162:16;	54:20;136:6;
87:16;92:17,22;	28:4;107:24;	conversion (3)	163:7,9;164:18;	161:17;203:14;
121:7;157:6,24;	169:11;204:25;	37:22;243:15;	165:7;187:16;192:13,	206:10
158:8,24;179:23,25;	245:24	244:18	24;194:12;196:6,25;	covered (7)
217:11,25;218:13;	continues (2)	converted (1)	197:1,4;200:10;	51:5,7;52:7;161:7;
221:11;226:22;	28:7;29:25	63:24	250:8;251:24,25	171:11,14;254:14
229:15;248:25;249:4;	continuing (2)	convey (1)	cost-effective (1)	covering (2)
252:6,20	16:20;83:8	89:16	124:16	87:24;192:24
consumers (19)	contract (3)	convince (1)	costs (12)	cow (2)
29:23;88:13,21;	97:5;142:2;251:12	116:19	31:25;32:3;83:11;	95:1;133:23
91:7;92:18;94:6;	contracted (2)	Cook (8)	105:23;156:19;	cow-calf (2)
129:6;144:23;157:10;	119:18;131:5	191:7;198:24;	161:18;163:11;	96:17;129:12
159:6;217:19;220:23;	contracts (4)	199:3,5,5;202:5,9,12	187:25;188:5,13;	cows (4)
223:25;231:3;235:2;	59:25;140:25;	cooking (1)	197:10;250:22	73:20;92:6;93:1;
247:15;248:3,21;	145:4;146:23	183:2	Counsel (1)	134:8
252:24	contractual (1)	cool (1)	230:19	CPS (1)
consumer's (1)	99:3	80:10	count (1) 137:1	23:14
179:18 contact (10)	contrast (1) 35:12	Co-op (3) 87:10;143:22;182:7	countries (23)	crack (1) 183:21
47:6,13,19;236:2;	contribute (4)	cooperation (1)	61:10,11,15,25;	cracked (1)
239:2;240:11;241:7;	218:3;241:9;	226:5	62:2,18;63:3;102:10,	234:20
245:15,16,19	245:22,24	cooperative (3)	13,25;110:22;142:22;	Craig (9)
contain (3)	contributing (1)	67:8,10;128:1	154:17,19;183:5;	127:20;135:21;
47:10;152:5;240:23	187:12	Cooperative/Organic (1)	185:7;186:8;201:2,4,	140:18;143:14,16,20;
contained (4)	contributor (1)	67:6	10;214:1;233:24;	145:15;146:12;
48:5;149:19;	31:8	cooperatives (1)	234:24	147:11
195:22;218:3	control (12)	133:19	countries' (1)	crash (1)
container (2)	5:9;51:17;55:18;	co-ops (1)	60:9	99:9
88:2;232:23	56:8,9,12;67:22;68:1;	216:15	country (15)	crashing (1)
containers (2)	129:11;132:22;158:6;	copper (1)	65:11;72:5;99:6;	221:2
86:1;236:13	228:22	196:19	103:9;104:23;105:24;	crazy (1)
contaminant (2)	controlled (2)	corn (39)	137:20;154:16;	164:7
121:14;241:6	186:6;231:9	51:13,21;53:18;	167:10;185:6,10,24;	cream (5)
contaminants (1)	controlling (2)	54:15,21;57:13;	187:21;201:7;249:7	87:23,25;88:4;
186:13	144:25;193:7	59:14;64:20;66:1;	country's (1)	133:21,21
contaminated (3)	controls (1)	76:16,20;78:5,16,25;	201:5	create (7)
131:13,17;236:20	157:15	81:3;83:3;100:12;	County (7)	41:24;114:1;143:9;
contamination (8)	conventional (53)	101:13;104:19;	58:19,19,20,21,21,	164:4,11;212:10;
80:15;141:10,14;	22:17;28:15;29:19;	136:14;137:6,9;	21;96:16	220:23
169:16,19,25;217:25;	37:22;39:6;40:7;52:7;	138:19;149:11;	couple (28)	Created (4)
246:12	54:13;60:8;63:25;	185:11,12;187:18;	11:7,23;16:2;22:23;	36:1;84:7;111:7; 222:14
content (1) 122:16	64:22;69:21;72:19; 80:7;89:23;103:13,	189:2;192:5;209:2,2; 234:20;249:2;251:2,	27:16,19;32:20;45:1; 48:16;53:1;55:20;	222:14 creates (2)
context (4)	13;120:25;122:13,22;	11;252:12,17;254:21,	48:10;53:1;55:20; 58:11;65:24;71:4;	51:19;53:19
112:3;163:1;	129:5,9,10;182:13;	22	73:24;77:25;79:23;	creating (3)
196:15;223:6	129.3,9,10,182.13, 183:7,9;186:19;	corner (1)	117:16;138:2;139:23;	107:24;108:13;
continual (1)	187:14,15,17;188:7;	5:21	145:3;150:6;152:23;	219:14
43:11	192:23,25;197:3,4,12,	corn's (1)	154:10;158:18;202:5;	creation (2)
continually (2)	13,14,16,25;200:17;	76:11	213:9;248:1	28:19;232:11
87:15;130:4	202:25;203:11;	Cornucopia (4)	course (16)	creative (1)
continuation (1)	204:14;216:13,15,24;	28:2;233:11;	14:23;15:6;16:10;	83:21
	,,.,.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,	, , ~ ,	

Burke Court Reporting & Transcription (973) 692-0660

- Vol. 2 April 25, 2024

Spring 2024 Meeting			1	April 25, 2024
creatively (1)	crushers (2)	customize (1)	data (18)	156:11
111:22	101:21;120:12	5:19	69:24;120:2;130:1;	decertifying (1)
credibility (2)	crushing (1)	Customs (1)	168:11;192:19;202:3;	165:6
228:4;229:18	212:5	120:2	203:22;207:9;213:13;	decide (2)
credible (1)	crutch (1)	cut (2)	214:10,11,22;215:2,8,	39:21;66:3
148:11	39:8	42:21;60:3	10;233:25;234:5;	decided (7)
credit (1)	crying (1)	cycle (4)	244:12	14:20,21,24;65:8;
95:2	223:8	55:25;114:19;	database (1)	129:13;216:21;
crews (1)	CST (1)	115:17;198:6	19:10	229:12
131:6	256:24	cycles (3)	date (4)	deciding (1)
crisis (3)	CSXs (1)	115:18,20;198:6	74:22;132:4;148:8,	38:10
129:15;133:3,4	126:23	cyclical (1)	12	decision (6)
criteria (5)	cull (1)	216:13	Dave (11)	35:11;83:18;172:3,
168:21;169:3,7;	73:20	cysteine (5)	15:10;20:17;154:1;	23;177:6;246:10
213:3;226:7	cups (2)	36:1;149:3,4;152:6;	157:3;159:14,16;	decisions (4)
critical (10)	47:11;238:1	153:9	161:14;162:21;	11:19;84:8;179:10;
47:21;102:12;	curing (9)	n n	164:22;165:2;167:25	217:24
109:10;111:13;	202:22,25;203:1,	D	Dave's (1)	decline (1)
125:18;149:7;178:18;	11,25;204:10,12,16,		20:16	28:7
234:22;247:14;	21	D6400 (1)	David (1)	declining (2)
251:17	curious (20)	240:22	96:16	229:17;233:17
critically (2)	17:12,15;24:9;	D6868 (1)	Davis (1)	decomposed (1)
102:7;108:20	25:12;35:14;49:12,	240:22	99:11 Day (17)	157:11
criticism (1)	22;53:5;72:15;85:20;	D8410 (1)	Day (17)	decrease (2)
220:17	118:1;152:24;161:22;	240:22	4:14;7:10;11:10,15,	59:22;195:8
crop (37) 25:14,15,17;39:25;	165:5;178:15;187:14; 196:24;197:1;207:2;	dad (2) 14:17;252:2	22;12:4;48:7;64:1; 75:7;77:11;97:4;	dedicated (4) 219:19;220:11;
42:6;61:25;77:4;	249:15	dairies (4)	99:12;193:3;210:10;	230:22;251:13
79:12;83:5,22;96:17,	current (16)	59:15;99:2;133:19;	247:5;253:1;254:2	dedication (2)
20;154:18,20;155:2,	30:23;31:6,9,17;	136:15	days (8)	205:9;232:19
7;156:18;166:5,8,10,	47:22;120:5;121:1;	dairy (18)	38:5;65:24;66:4;	Deep (1)
16;169:25;171:2;	152:24;171:11;	37:4;40:9;41:21;	71:16;139:23;189:11;	21:10
189:5,12;191:25;	185:18;191:23;	67:24;97:5;128:21,	210:11;227:8	deeper (1)
195:14;198:7;203:17;	199:21;200:4;204:9;	23,25;132:18,24;	deadline (2)	165:5
206:10;215:4;220:11;	206:3;217:3	133:6,19,23;134:20,	72:4;109:24	deeply (3)
221:4;228:1,16;	Currently (18)	21,22;139:2;164:16	deadlines (1)	178:15;223:1,24
240:6;255:16	51:12;67:21;68:1,4;	Dakota (2)	155:19	Deere (1)
CROPP (1)	119:17;120:19;	96:22;191:17	Deaf (1)	98:6
67:6	125:14;152:1;170:6;	damage (3)	58:18	defecation (2)
cropping (4)	173:12;192:20;201:4;	141:13;217:22;	deal (5)	189:7,10
71:1;192:1;202:20;	221:25;222:7,11;	236:17	51:24;117:6;	Defense (1)
203:14	231:10;240:17;250:5	D'Amore (18)	123:23;194:6,17	238:25
crops (39)	Currier (22)	9:15,16;16:5,16;	dealing (2)	defer (1)
41:23;52:4,15;	157:4;159:15;	89:3,8;92:13,15;	196:20;207:5	61:3
53:25;54:1;71:20;	168:2,5,5;170:19,25;	166:21;222:5;223:2,	dear (1)	deficiency (1)
76:4;77:3;78:1,3,19;	171:10,22;172:9,15;	5,15;224:9;238:18,	41:19	149:14
79:9,13,13;81:10,14,	173:21;174:22;176:5,	22;239:9,16	death (1)	deficient (3)
15,18,24;82:5;83:2;	17;177:3,13;178:17;	damper (1)	216:12	149:10;196:2;210:5
101:17,24,25;102:3;	179:12;180:22;181:4, 15	83:15 Dar (10)	debate (1)	define (1)
103:1;128:11;136:6, 6,7,10;137:5;138:11;	curtail (1)	Dan (10) 27:21;30:15,17;	85:7 debating (1)	12:8 defined (2)
142:10;157:12,12;	200:6	32:20,22;33:18;35:1,	debating (1) 14:12	defined (2) 30:7;200:2
185:8;201:15;212:24	custody (1)	9;38:13;69:10	debt (1)	defining (1)
CRP (1)	226:17	Dandelion (1)	228:17	216:20
80:11	customer (10)	21:10	decades (2)	definitely (11)
crucial (2)	95:1;97:1;138:12,	danger (1)	119:15;231:10	16:11;17:9;18:18;
28:5;71:1	17,22;146:25;220:22;	199:12	December (1)	25:4;90:14;110:25;
cruising (1)	250:2,3,7	dangerous (1)	71:16	138:23;171:25;
132:6	customers (12)	29:7	decertification (1)	180:22;181:9;188:17
crush (1)	91:17;94:23,25;	Daniel (2)	154:14	definition (8)
201:25	100:15;116:14,19;	30:19;46:4	decertified (1)	170:16;172:24,25;
crusher (1)	127:8;138:20,24;	darn (2)	156:16	173:4;178:24;181:6,
249:17	144:2;147:3;154:21	65:25;205:23	decertify (1)	12;240:9
	-		÷	

Burke Court Reporting & Transcription (973) 692-0660

~ F 8				I , , , ,
degrade (1) 243:23	74:6;80:25;119:25 described (1)	5:1;10:23;107:10 dialing (1)	46:25;48:11 dips (1)	distance (1) 216:9
degree (4)	145:18	184:24	30:24	distribute (1)
90:3;187:24;	describing (1)	Diana (1)	direct (5)	124:4
216:11;225:9	142:21	204:1	47:5;85:2;144:4;	distributing (1)
delay (1)	description (2)	diehards (1)	146:4;187:19	126:11
11:3	120:14,16	11:14	direction (3)	distributors (2)
deliver (1)	desert (1)	diet (5)	124:9;152:2;216:20	141:4;157:21
144:13	80:3	36:1;47:23;149:11;	directly (8)	disturbing (1)
delivered (1)	deserve (2)	152:25;153:17	78:21;144:2;	159:22
144:20	235:2,4	diets (3)	146:24;201:5;212:15;	dive (1)
delivery (2)	designed (3)	41:24;149:13,23	228:1;240:5;247:21	165:5
68:9;192:9	69:21;109:18;246:4	difference (10)	Director (7)	diverse (5)
delving (1)	desirable (1)	40:22;62:5;89:17;	7:16,20;28:1;97:24;	11:18;138:16,20;
173:11	241:17	160:20;161:7;162:24;	119:9;211:6;235:21	212:18;232:14
demand (20)	desire (1)	163:20;164:2,3;	dirt (3)	diversify (1)
56:1,2;59:23;60:5;	216:8	252:23		137:4
			79:12;81:15;254:14	
79:19;98:19,22;	desired (1)	differences (2)	disabled (1)	diversity (3)
104:2;120:6;137:13;	243:16	129:25;197:2	29:24	28:18;60:17;61:1
138:15;139:17,19;	desperately (1)	different (43)	disadvantaged (1)	diving (1)
157:10,24;205:15;	129:2	5:11;24:6;33:22;	61:9	178:25
212:2;221:3;232:9;	despite (3)	35:24;37:11;38:2;	disagree (1)	Division (3)
250:3	30:2;64:16;220:17	39:12,13,16;40:1,10,	8:19	7:17,21;168:14
demands (3)	destroy (1)	12,12;42:7,9,9,9,10,	disappeared (1)	divisions (1)
223:8;231:3;234:25	88:19	10;45:10,23;60:18;	13:16	226:14
demonstrate (3)	destruction (1)	75:1;79:10;88:15;	disclosed (1)	DL-methionine (3)
116:7,7;231:22	217:16	93:9;97:15;115:21;	217:23	48:1,23;148:8
demonstrated (3)	detail (1)	125:25;134:13;	discourage (1)	doable (1)
203:6;204:12;	175:22	136:11;145:1;147:4;	102:13	117:17
205:15	detailed (3)	156:16;165:13;	discovery (1)	docket (6)
denied (1)	122:2;174:13;187:4	174:16;175:19;	64:1	107:20;109:22;
65:10	details (3)	178:12;183:20;189:6;	discuss (2)	110:3;122:25;214:7;
Denmark (3)	23:7;41:1;162:14	190:24;226:14;	41:21;148:17	245:1
160:12;167:13,14	detect (2)	243:21	discussed (2)	document (8)
density (1)	86:14;122:12	differently (1)	14:16;36:16	65:6;128:17;130:3;
39:14		173:25		134:13;166:5;199:24;
	detecting (1)		discussing (2)	· · · · ·
Department (1)	121:17	difficult (13)	166:5;229:15	214:9;225:16
16:24	deter (1)	42:5,12,14,15;43:3;	discussion (14)	documentation (5)
dependence (1)	109:2	53:22;73:10;101:22;	17:8,9;36:8;41:5;	68:21;169:4,5;
212:25	determine (1)	102:6;104:18;131:17;	47:17;65:6;93:13;	170:10;226:16
dependent (2)	172:7	132:8;188:8	109:13;128:6;134:13;	documents (6)
225:23;226:4	determining (1)	difficulties (2)	166:24;167:1;199:20;	122:2;128:6;130:4;
depending (6)	226:1	4:24;5:2	221:12	199:20;225:13,15
126:18;152:12;	detrimental (1)	difficulty (2)	discussions (1)	Dodge (1)
174:23;177:5;203:17;	201:12	105:22;177:9	39:7	216:8
252:22	devastating (1)	digest (1)	disease (2)	dollars (4)
depends (2)	83:8	34:3	188:19,19	120:23;163:13;
117:3;243:20	develop (3)	digestible (1)	disincentivize (1)	164:7;234:21
depleted (1)	34:13;53:21;55:22	149:7	56:5	domestic (44)
49:15	developed (4)	digging (2)	disinfection (1)	53:13;65:3;86:9;
deploy (1)	100:7;108:6;226:5;	176:3;181:1	68:7	101:14,17;102:16;
189:22	251:12	digital (1)	disintegrated (1)	103:24;112:6;119:10;
deploying (1)	developers (1)	154:8	241:19	120:10,11,12;124:18;
189:21	53:20	digits (1)	disintegration (2)	137:2,8,13,23;139:12,
		0	e i	
depressed (2)	developing (3)	119:1 Dilin (3)	241:18;243:22	23;141:4;142:12;
165:15;223:22	36:25;200:9;228:23	Dilip (3)	dismal (2)	165:18;200:16;
depression (1)	development (6)	10:4,6;89:9	83:13;129:3	201:13;212:2,3,4,22;
137:6	109:9;136:12;	Dimitri (1)	displayed (1)	218:9,12;248:5,11,16;
deprive (1)	145:23;216:17;	9:18	6:15	249:4,23,24;250:3,6,
212:23	226:20;248:23	Dion (7)	disregard (1)	10,11,17;251:9;
derived (2)	devolved (1)	46:7;57:1;63:19,23,	29:22	253:18;255:12
120:2;246:4	121:1	23;66:10,13	disruptions (1)	domestically (7)
describe (3)	dial (3)	dioxide (2)	220:11	101:23;143:8;
				101.20,1 10.0,

Burke Court Reporting & Transcription (973) 692-0660

(12) degrade - domestically

- Vol. 2 April 25, 2024

Spring 2024 Meeting				April 25, 2024
149.25.212.2.219.5.	100.0	4.01.10.1.12.6.	92.17 04.151.10	2000 (1)
148:25;212:3;218:5;	128:8	4:21;12:1;13:6;	83:17,24;151:12,	eggs (4)
247:23;249:1	dream (3)	22:11,15,17;49:16;	21;160:21,25;164:11;	247:11;249:2,19;
dominant (1)	28:13;163:15;	86:20;140:6;148:22;	193:1;250:4	252:21
213:25	216:14	153:7,13;158:10;	economically (2)	eight (2)
done (28)	drier (1)	169:4;218:8	156:24;164:5	96:22;202:22
12:17;18:16;24:17;	189:9	dust (1)	economics (1)	either (10)
41:2,3,4;43:6;58:4;	drift (1)	254:14	134:6	23:12;45:8,15;
63:7;71:12;78:8;	226:1	Dwayne (1)	economies (1)	86:19;132:25;153:9;
80:14;112:4;117:10,	drink (4)	208:18	28:20	179:10;189:10;
20;127:8;129:14;	115:5,6,8;241:25	Dyckman (1)	economists (2)	226:14;238:19
130:16;154:22;176:4;	Driscoll's (1)	154:1	139:11;203:2	Ekalaka (1)
186:21;192:21;	160:7	Dykman (7)	economy (4)	70:22
205:16,23;206:7,13;	drive (3)	143:15;147:14;	126:19;232:10;	element (2)
209:13;255:13	14:25;80:6;144:12	154:2,5,5;156:13;	241:10;246:3	244:20;245:17
door (2)	driven (1)	157:1	ecosystems (1)	elements (4)
53:11;131:22	43:6	dynamic (4)	93:22	35:2;84:5;240:19;
doses (1)	drives (1)	53:13;55:25;56:4;	educate (3)	244:10
195:14	164:6	78:2	88:23;89:17;248:25	elevate (2)
dot-com (2)	driving (1)	dynamics (1)	educated (2)	75:4;248:13
98:5,6	83:17	224:6	88:3;166:17	elevated (1)
dots (1)	drop (2)	dynamic-wise (1)	educating (4)	48:25
7:3	94:16;252:25	78:11	87:12;88:12;89:14,	elevating (1)
double (4)	drop-off (1)	70.11	23	220:19
90:7,7;155:8;	229:3	Ε	education (7)	elevator (4)
160:16	dropped (4)	Ľ	35:20;87:20;89:20;	76:16;78:19;
doubt (1)	59:19;95:5;104:14;	earlier (4)	90:14;94:9;168:10;	249:17;253:16
162:4	123:13	69:10;104:10;	241:13	elevators (2)
Doug (13)	dropping (2)	123:5;150:13	effect (5)	79:1;124:3
157:4;159:14;	128:18;161:25	early (2)	64:3;111:9;150:13;	eliminate (1)
168:2,4,5;170:18,20,	drought (1)	4:6,7	193:22;195:13	48:1
22;173:7;174:7,11;	97:20	earthworms (1)	effective (5)	eliminates (1)
176:13;181:13	droughts (1)	37:10	32:15;90:22;	68:13
down (32)	14:7	ease (1)	113:25;115:19;198:9	eliminating (3)
16:15;27:19;31:24;	dry (2)	67:25	effectively (1)	64:4;73:24;103:8
34:7;35:3;51:22;	70:25;78:17	easier (5)	212:12	elimination (1)
55:21;60:4;65:9;	drying (1)	38:20;74:5;104:9;	effects (1)	88:7
71:18;79:17;104:15;	78:7	197:16,19	67:21	elite (4)
122:5;123:7;126:16;	Duane (6)	easiest (1)	efficacy (1)	100:6,12,13,20
127:10;156:22;165:5,	198:25;202:13;	237:18	207:11	ellipsis (1)
16;166:22;190:23;	208:20;210:14,15,16	easily (7)	efficiencies (1)	7:3
193:22;194:15;	due (7)	104:6;121:5,22;	76:5	Elly (2)
215:22,24;232:15;	28:7;36:13,13;	160:15;185:13,25;	efficiency (1)	107:22;108:2
236:21;240:19;241:1,	137:10;145:7;154:14;	190:20	77:4	else (13)
			efficient (4)	5:13,25;51:17;
15;243:10;244:10	228:9	East (10)		
downside (1)	dump (4)	4:7;58:17;80:4,5;	64:13;126:7,12;	63:11;64:15;77:7;
120:23 downsides (1)	76:17,19;133:7; 245:10	96:23;105:17;126:16; 132:6;136:7;189:9	254:25 efficiently (1)	94:11;134:25;197:24; 209:10;214:21;
151:7		Eastern (5)	232:8	244:11;245:19
dozen (6)	dumping (1) 201:18	4:10;74:17,20;	effort (10)	email (2)
129:12;140:25;	dumps (1)		74:4;90:7;94:1;	17:10;94:12
251:25;252:20,22,23	86:3	100:5;185:7	119:23;137:21;	emailed (1)
Dr (2)	dunk (1)	easy (8) 80:20,21;102:5;	177:20;208:12;	23:11
69:8;247:9	207:5		226:25;239:11;	embrace (1)
		130:23;132:4;185:23;	248:25	83:16
drafted (1)	duration (2)	223:7;234:21		
93:20 dramatic (3)	32:16;67:24	echo (1)	efforts (12) 52:3:83:25:84:20:	embraces (1) 28:18
102:15;106:4;	duress (1) 96:21	11:12	52:3;83:25;84:20; 98:2,11;114:6;121:2;	
	96:21 Durfey (14)	echoed (1)		embracing (1) 231:4
211:25 dramatically (1)		155:11	124:7;169:6;210:9;	
dramatically (1)	159:15;168:2;	eco-agro (1)	231:7;232:21	emergency (2)
73:9 dresticelly (2)	181:18;184:12,14,17,	157:13 Ecological (1)	egg (8)	68:20,25
drastically (2)	17;187:8,19;188:22;	Ecological (1) 46:20	113:24;177:10;	Emmer (1) 141:3
76:25;192:18 draw (1)	189:22;190:1,7,17	40:20 economic (9)	247:10,10,13,17,20; 250:24	
ulaw (1)	during (15)		230.24	Emmitsburg (2)

Burke Court Reporting & Transcription (973) 692-0660

199:21

111:18.18

150:25

106:8

128:22

76:2:80:5 emphasized (1) 34:12 employees (1) enjoy (2) 24:20 empowering (2) enjoying (2) 219:20:232:7 enable (1) enlisted (1) 211:21 33:21 enabled (1) enough (34) 4:22 enacted (1) 84:5 enacting (1) 84:1 encompass (1) 195:12 encompasses (1) 220:15 encourage (16) 34:12;36:25;44:14; enrolled (1) 56:19;73:1;87:18; 26:1 119:23;124:17;125:2; ensure (17) 136:21,25;137:13; 169:9,11;248:4,16 encouraged (1) 35:22 end (31) 22:13;31:4;33:8; 36:4:40:12,12,23; 233:15 41:7:44:19:53:17: Ensuring (3) 60:12.12:77:10: 107:2:118:11:124:4: entering (3) 126:3;142:14;146:18, 19:193:3:205:10: 246:5 231:19;237:1;241:16; 246:23;248:18; 249:15,19,22;255:14 enterprise (2) ended (2) 133:24:253:6 Enterprises (2) endlessly (1) 64:7 enters (1) endocrine-disrupting (1) 217:8 236:8 energy (5) enthusiasm (1) 57:25;128:23; 219:14;250:25;251:2 103:8 enforce (2) entire (6) 87:19,19 **Enforcement (5)** 85:16:111:8: 250:2 129:14;229:1,14 entirely (3) engage (2) 8:1;222:23 223:10 entirety (1) engaged (2) 16:21;77:21 213:6 engagement (2) entities (5) 108:19;163:4 engaging (3) 8:5:38:24:110:1 entitled (1) enhance (1) 252:7 71:22 entrenched (1) enhanced (2)

entrepreneurial (1) 84:18:124:21 enhancement (1) 146:14 entrepreneurs (2) 219:16;222:13 11:16:95:21 entry (2) 130:16:190:10 enumerated (1) 158:22 environment (10) 24:19:28:8:29:8; 26:4;52:5;53:10,24; 65:10;70:3;103:7; 157:16:180:3:236:17; 55:1:63:10:77:4; 78:22,23,23;81:11; 251:24 82:2,2,11;96:24; **Environmental** (11) 104:3;111:6,16; 22:9;28:23;29:21; 132:4;136:21;145:3; 30:1;39:10;203:15; 206:9;220:6;225:12; 153:5,10;154:12; 238:25,25 155:15;163:7;179:8; 194:11;200:24; environments (4) 201:16;207:8,9,12,13 39:15;203:18,21; 231:9 envision (1) 220:14 108:9;124:11; enzymes (1) 181:5 125:11;135:3;146:17; **EPA (3)** 148:10;154:16;155:5; 168:19;182:24;205:1; 169:4;238:19; 206:19;219:24; 239:14 EQIP(2) 220:21;224:1;231:12; 23:15:71:22 **EQIP-Organic** (1) 108:4:206:15:231:2 71:12 equal (3) 162:22.22:253:12 124:21;234:15; equates (1) enteritis-type (1) 120:11 equipment (11) 22:13;47:5,9;62:17, 140:24:198:7 20;68:7;136:23,24; 144:8;146:6;147:8 22:1;119:14 equipment-only (1) 136:19 equitable (1) entertaining (1) 232:14 equivalency (4) 201:1,2,6,7 equivalent (1) 204:13 Erin (14) 49:19;166:25; 204:3;221:12;239:12; 198:25;202:13; 205:4,7:206:23; 208:15:233:7:235:16: 160:18;221:17; 239:19,21,24;242:6, 24;246:17 erosion (2) 162:5;195:10 especially (22) 23:22;29:6,20; 120:23;138:10; 158:6;200:15;211:16 36:18;47:21;65:5; 74:25:85:18:90:12; 110:14;128:3;153:6, 13:176:22:180:1; 184:1;205:8;214:19;

220:1;241:21;245:12; 255:22 essential (7) 35:16;47:1;68:6,8, 10:148:13:150:14 essentiality (1) 178:11 essentially (3) 187:21;241:1; 249:21 establish (2) 84:19:155:8 established (4) 189:16;199:25; 218:6:240:21 establishing (1) 28:14 estimate (1) 185:20 et (2) 4:17;226:2 ETHC(1) 120:21 EU (4) 49:4;149:18;167:8, 16 Europe (4) 65:12;141:19; 182:14:187:23 evaluate (4) 125:11:177:22; 201:1:243:20 evaluating (3) 45:21;85:4;226:20 evaluation (4) 85:4;168:21;169:3, 7 evaluations (1) 169:8 Even (51) 8:19;19:21;23:18; 24:3,13;32:10;34:17; 35:21;37:7;39:7;40:5; 42:10,11,14;74:17; 83:11;87:22;110:21; 129:3;133:8;134:3; 141:22;142:1,24; 145:6;149:17;150:21; 162:14;163:11;167:8; 175:21;176:2;183:6; 185:20;189:8;208:11; 209:21:215:15: 216:20;218:14;219:6; 223:9,22;228:17; 237:25;241:18; 243:25;244:4;249:24; 250:10;255:12 evening (1) 4:13 evenly (1) 201:19 event (1) 226:2

- Vol. 2 April 25, 2024

Eventually (1) 252:19 evergreen (1) 29:3 everybody (30) 4:3,9:9:1,13:14:1; 42:18;46:5;80:19,19; 87:21:94:17:123:23; 135:24;142:12;143:5, 9:144:23:159:16: 160:6,8;191:4,9; 199:3;208:24;209:18; 217:6;229:24;230:1; 238:12:256:12 everybody's (3) 11:16;123:7;256:15 everyone (16) 5:13;6:1;7:20;8:16, 17;11:4;17:5;30:5; 64:5,15;139:4;157:1; 162:16:202:15:252:3; 256:13 everyone's (2) 46:21;252:7 everywhere (2) 39:18;44:17 evidence (4) 19:3:36:20:68:22; 119:21 evolve (2) 38:4:208:13 evolved (1) 208:2 exact (1) 213:24 exactly (1) 95:12 exaggeration (1) 45:14 examination (3) 68:22;84:15;218:7 examine (1) 84:25 examining (1) 134:15 example (11) 68:21;87:21;88:17, 18;117:7;130:21; 158:9;175:8,13; 177:24;234:3 examples (1) 120:15 exceeding (3) 103:3,5;137:21 excellent (7) 38:23;79:18;81:5; 202:8;224:16;251:21; 253:15 except (1) 166:11 exception (1) 69:2 excess (2)

Burke Court Reporting & Transcription (973) 692-0660

142:25;245:25 excited (4) 65:4;71:8,10; 144:16 excites (1) 91:10 exciting (1) 198:8 exclude (1) 236:1 excluded (16) 170:4,16:171:20, 23:172:13.18.24: 174:15;175:7;177:1; 178:23,25;180:19; 181:6,10,12 exclusively (3) 69:1;175:7;253:19 excretion (1) 150:1 excuse (1) 48:23 execute (2) 110:19;190:21 executed (1) 111:1 executive (1) 97:24 exist (2) 112:6,6 existed (1) 14:11existing (2) 16:25:84:4 exists (1) 19:25 exit (1) 5:23 exited (1) 216:14 expand (6) 25:20;82:5;172:13; 208:4;219:22;248:16 expanding (5) 102:18;175:1; 208:9;250:15,19 expands (1) 170:3 expect (6) 47:2;137:22;157:6; 159:6:218:13:250:3 expectations (1) 66:8 expected (2) 141:18;179:21 expense (3) 14:22;144:15; 212:22 expensive (3) 151:20:162:7:197:7 experience (16) 15:14:35:9:36:21; 43:16,23;102:24;

109:17:141:9:148:5; 171:10.14:187:4.5: 217:10;250:2;254:24 experienced (1) 141:10 experiencing (2) 107:22;233:17 experiment (1) 29:19 expert (2) 114:5;168:9 28:4expertise (5) 32:23:108:24; 122:6;132:16;208:10 experts (3) 14 169:10;174:8;203:3 eye (2) explain (5) 40:3;45:8;91:9; 173:19;217:25 explaining (1) 116:14 explanation (1) 92:7 exploded (1) 80:12 exploit (1) 34:25 explored (1) 204:21 exploring (1) 169:13 export (2) 65:8;212:8 exported (1) 120:20 exporter (1) 248:9 exporters (1) 127:6 exporting (5) 120:23;154:17,18; 201:10;214:1 exports (2) 110:23;119:19 express (3) 51:10;57:21;240:8 expressed (1) 213:19 expressing (1) 103:20 extend (2) 69:11;176:23 extends (1) 8:18 extension (3) 89:14;141:16; 207:23 extensive (1) 92:5 84:1 extensively (1) 37:16 extent (1) 226:1 92:6

extra (4) 103:6:166:4:194:3: 251:24 extract (1) 122:22 extracted (1) 122:23 extraordinarily (1) 104:18 Extreme (1) extremely (7) 42:15:43:3:73:25; 195:14;207:21;208:5, 6:19;10:21 eyes (1) 167:2 F face (3) 126:5;220:13; 254:15 faced (1) 217:24 faces (1) 217:5 facets (1) 212:7 facilitate (2) 8:15:129:10 facilitating (2) 212:18,20 facilities (12) 106:1;112:13; 124:2,15;126:10,13, 15;144:9,18;201:25; 241:15:243:17 facility (9) 47:4;71:5,7;72:15, 21;73:14;127:13,15; 144:1 facing (4) 57:18;64:17; 145:10;233:21 fact (18) 36:11;42:7;44:24; 65:7:67:25:89:21; 90:1:96:19.25:97:18; 99:10:167:6:217:17: 218:6;221:21;228:9; 235:3;252:7 factor (1) 83:17 factories (1) factors (4) 108:23;112:7.8; 216:14 factory's (1)

fail (3) 68:15.16:99:11 failed (2) 69:25;74:17 failure (3) 29:20,23:90:1 fair (14) 64:25:65:16:66:5.7; 72:7;79:14;119:11; 132:24:156:18; 182:19,23,25;183:19; 188:9 fairly (1) 77:5 fall (6) 8:8;92:23;109:14; 165:24;183:3;251:1 fallen (1) 83:10 fallout (1) 115:20 falls (1) 247:18 false (3) 33:6;142:10;164:14 familiar (1) 59:2 families (3) 209:1;220:8;224:3 family (15) 16:20;20:21;24:20; 63:24:138:5:141:1.7: 190:23:199:8,14; 216:10.12:218:25: 255:4.9 family-sized (1) 255:5 fan (1) 116:18 fantastic (3) 91:5;93:18;146:9 far (29) 14:12;32:10;52:4, 10,15,19;53:17,18; 54:23;59:13,14,21; 70:21;71:6;74:4;82:3; 95:12;96:23;97:21; 126:2;154:12;156:20; 189:20;196:4;201:11; 214:2;221:19;233:22; 238:5 farm (46) 14:6;15:18;16:25; 17:8;18:4;22:1,2,3; 24:11;25:6;31:25; 46:20;58:13;63:24; 64:2;71:18;80:2;81:6; 126:3;133:3,4;136:4, 14;137:17,18;159:19; 161:5;163:2,3,18,19; 164:16:188:3.7: 216:8,10,16;218:2,7; 250:15;254:19,19,22;

255:5.9.15 farmed (1) 99:13 farmer (30) 40:9:51:18,24; 52:22;56:5,19;57:13; 59:3;63:6;67:9;71:2; 76:21:93:4:96:16: 104:15;111:17;136:3; 141:15:143:21; 159:18;164:22; 182:12:183:15; 191:17;201:13;216:5; 222:8;248:16;252:4; 254:11 farmers (97) 23:5;31:23;32:6; 33:9,13;34:12;54:23; 55:15,21;57:18;58:1; 59:25,25;60:3;61:9; 63:9,11:64:3,8,11,12, 16;65:16,25;66:7; 67:11;71:23;72:7; 75:3;77:21;103:12, 20,23;104:1,19,22; 106:2;108:8;111:19; 139:22;140:24;142:9, 13:144:11:145:4; 147:2;156:7;157:20; 159:18;165:14,14,22; 166:13,16:167:23; 182:8.20.22.25: 183:21:185:19; 189:21;190:10,12; 201:14;211:15,21; 212:23;216:15; 219:20,22,24,25; 220:5.10.15:221:4: 228:2,3,8;229:19; 233:16,19:235:4; 247:21;248:5,8; 250:17:251:13; 252:13;255:1,7,8,12, 22,22,25 farmers' (3) 61:1;65:5;134:4 farmer's (1) 84:12 farming (30) 25:13;28:11;30:3; 39:19:59:2:60:17; 64:1,5;70:25;97:9; 128:19:144:24; 146:14;148:15;160:9; 163:24;187:13; 188:23;198:15;216:6, 13,22,22,24;217:4; 220:3,13,18;222:22; 233:18 farmland (1) 81:5 Farms (36) 14:4;80:6,7;141:1,

Spring 2024 Meeting	1	1	T	p
8;156:16;159:23,25;	124:5;128:12;136:8;	197:11	226:19;235:23;239:5	five-year (2)
160:1,2,3,8,16,19,21,	138:23,24;149:18,22,	fertilizer (2)	financial (1)	36:7;173:17
25;161:4;162:5,6;	23;151:1,8,18,19;	187:24;203:21	37:21	fixes (1)
163:21,22,24;164:3,	182:11;192:20;193:6,	fertilizers (3)	financially (2)	6:6
11,12;165:12,12,13;	14,14,20;194:1,2,4,	157:18;203:8,10	229:25;230:2	flag (2)
200:10;203:22;	16;199:14;216:15;	Feud (1)	financing (1)	16:22;103:3
218:25;222:12;	247:20;249:3	138:5	222:18	flesh (1)
228:14;229:22;	feedback (5)	fever (1)	find (23)	117:4
236:20;238:4	24:3;118:2;146:10;	67:23	4:22;5:16;15:1;	flies (1)
farrowing (1)	161:21;187:2	few (24)	19:8,9;56:17;75:14;	29:6
72:21	feeding (1)	7:17;23:7;29:1;	78:24;101:19,22;	flock (1)
farther (3)	147:8	45:19;46:24;53:5,8;	104:21;113:20;	153:12
15:1,1,1	feedlot (1)	66:4;74:19;80:11;	117:21;118:20;	Flonnory (18)
fascinated (1)	156:20	81:9;106:1;110:10;	141:21;156:23;	12:19;21:22;22:1,1,
15:24	feedlots (1)	114:23;125:13,25;	175:11,22;184:11;	21;23:8,25;24:15,25;
fashion (1)	19:9	139:3,15;153:7;	196:5;209:9;230:14;	25:8,15,17,19,23;
249:20	feeds (3)	159:22;172:15;196:5;	248:17	26:3,5,8,13
fast (1)	42:20,21,22	208:24;216:19	finding (7)	flood (1)
153:4	feedstock (7)	fewer (1)	5:21;75:13;96:5;	217:6
faster (4)	48:6;119:20;	32:16	99:7;176:8;183:25;	flooded (2)
167:18;219:17;	171:16;240:8,10,22,	fiber (2)	208:12	28:3;234:10
228:8;251:6	25	241:19,20	finds (1)	flooding (1)
fat (1)	feedstocks (2)	field (41)	225:13	191:23
252:2	169:19,21	15:9;62:23;64:25;	fine (2)	floods (1)
father (1)	feedstuffs (8)	65:17;66:6;83:2,5;	13:7;115:8	182:13
216:12	64:15;81:19;83:9;	97:13,21;137:15,18;	fingers (1)	floor (1)
father-son (1)	85:18;103:21;104:3;	139:21;140:5;142:12;	132:20	28:17
209:1	234:14,19	143:9;155:3;162:23;	finish (3)	Florida (2)
fatigue (1)	feel (35)	182:11,19;183:17,23;	7:12;161:11;169:12	10:8;203:5
107:23	41:24;42:1;44:6;	196:12;197:8;202:1;	finished (1)	Florida-Georgia (1)
fault (1)	60:11;61:18,23;	209:8,25;220:16;	246:2	25:11
194:14	62:22;63:5;74:12;	221:13;223:9;228:5,	finite (1)	flour (1)
favor (3)	75:13;81:1;88:4;	15;229:23;233:23;	117:10	138:19
31:9;170:2;172:12	102:20;137:6;138:21,	235:4;241:11,12;	fire (1)	flourine (1)
favorable (1)	23;142:11,13;152:24;	248:4,15;251:22;	63:7	243:2
179:20	158:16;178:2,13;	255:12,22	fires (1)	flourish (1)
FDA (5)	179:21,25;180:5;	field-average (1)	58:22	219:22
235:23;238:15,19; 239:2;245:17	183:4;191:24;205:25; 207:8;209:10,13,19;	100:11 fields (12)	firm (1) 219:12	flow (2) 83:9;106:7
fear (2)	249:16;250:17;255:3	100:11;156:14,15;	first (26)	flowchart (1)
178:19;229:10	feeling (2)	1	7:24;11:13;12:19;	226:7
feasibility (3)	153:19;194:7	163:2;196:25;197:12, 20,21,23;228:18;	14:11;21:15;49:2;	fluctuations (1)
202:24;204:2;206:7	feels (1)	236:12,19	54:6,24;59:2;78:1;	233:21
feasible (4)	134:25	fifteen (1)	82:22;90:20;92:20;	flukes (1)
108:13;109:4;	feet (2)	126:14	99:11;107:21;148:21;	39:25
124:19;127:12	63:7;150:23	fighting (3)	152:21;168:17;	flunixin (1)
feasibly (2)	fell (1)	35:20;134:10;163:9	175:20;199:6;200:8;	67:22
112:10;205:16	109:24	figure (7)	241:19;245:15,20;	fluorine (2)
feather (1)	fellow (1)	24:17;37:16;77:1;	248:13;251:17	243:2,23
152:5	98:2	174:24;207:10,10;	Fitness (1)	fly (1)
feature (1)	felt (2)	214:20	217:18	129:11
5:15	37:12,23	figured (2)	fittings (1)	flying (1)
fecal (1)	fenbendazole (4)	9:8;133:9	235:24	207:24
68:22	31:1;34:11;38:17;	figures (1)	Fitzgerald (6)	focus (9)
Federal (5)	68:12	231:1	247:4;253:25;	105:10;124:5;
8:13;43:8;83:22;	fence (4)	figuring (1)	254:7,10,11,12	136:8;141:9;162:21;
163:10;167:8	35:22;36:5,19,20	175:9	five (10)	169:11;170:4;192:2;
fee (1)	fermentation (3)	final (4)	111:9;121:6;	211:8
161:5	181:1;204:19,24	83:18;85:16;173:2;	140:25;157:17;158:3;	focused (6)
feed (38)	fermenting (1)	241:23	175:19;205:11;206:5;	109:25;215:3;
24:20;41:22;42:1,6;	50:1	finally (8)	207:4;218:6	219:12;222:18;228:2;
59:15;78:1,4,10,15;	fertility (3)	32:11;48:10;	five-foot (1)	252:7
83:10;88:18;119:13;	81:11;169:25;	109:22;146:2;161:8;	253:8	focuses (1)
	1	1	Î.	1

Burke Court Reporting & Transcription (973) 692-0660

(16) farrowing - focuses

forces (1)

189:20

focusing (2) 62:18 forcing (1) 103:24;228:25 foils (1) 233:17 134:10 forefront (1) fold (1) 125:13 111:13 foreign (16) foliar (1) 64:12:76:13,22; 195:8 77:14;101:14,21; folks (16) 102:3,18:137:23; 4:3;58:3;74:5; 106:12:110:17; 17:200:15:213:1; 111:13;113:5;125:25; 249:7 140:4;143:1;164:21; foremost (1) 165:6;183:18;184:6; 245:20 214:25;220:17 foreshadowing (1) follow (10) 217:18 20:11;23:21;25:4; forget (3) 33:20;38:10;40:20; 41:19;190:8;198:10; forgive (1) 216:23 113:22 forgot (1) following (6) 22:12;31:6;68:4; 46:11 133:17;174:20; form (1) 216:11 29:25 follow-up (3) former (3) 171:18;188:16; 252:11 forms (3) font (1) 89:16,19,22 5:10 formulas (1) food (68) 204:15 11:6:20:22:24:21: formulation (2) 28:9,9,11,17:29:15, 42:2:151:8 19.24:30:1.3:46:20: formulations (1) 41:22 47:2;78:1,5,14;124:6; Fort (1) 128:7;136:8;141:4,4, 4;154:19;157:6,7,10, 216:8 22,24,25;158:1,2,2,3, forth (1) 4,16;163:14;169:22; 166:7 Fortunately (1) 173:1,2,2;204:1,11, 13;219:13;220:4; 145:3 forward (16) 224:1:229:8:235:3, 21,24,25;236:2,2; 14:7;16:2;24:24; 238:24;239:3,4,25; 240:8,11,15,15;241:6, 22;245:9,16,16,19 food-grade (2) 78:5;141:2 238:10 food-producing (1) fossil (2) 38:24 48:13;50:10 Foods (4) foster (1) 15:2;16:6;101:14; 232:14 148:2 fostering (2) food-soiled (1) 220:24;226:22 fouled (1) 245:16 foot (1) 45:4 180:11 found (11) football (1) 196:12 124:15;126:9,17; force (3) 37:15;148:9;239:10 236:8:254:4 forced (1) foundation (2) 194:5 29:11:241:13

founded (1) 140:23 founder (1) 247:10 founders (1) 64:9 four (11) 40:10:118:20; 119:1;124:1;140:24, 25;148:17;157:15; 169:20;186:3;199:15, 158:2,10;225:19 four-county (1) 82:4 four-year (1) 90:3 fragile (1) 28:9 frame (3) 13:13;21:23;27:23 114:10;243:15,16 framework (5) 171:6;221:22; 223:22.24:224:8 Franklin (10) 10:13,15;93:7,18; 94:6;172:10;179:13; 180:6;215:20,24 Franklin's (1) 30:20;128:8;185:18 174:17 frankly (2) 44:19;55:19 fraud (35) 86:7:102:9.12.14. 16,17,21;103:9,11; 109:2.19:119:18: 120:19,20;122:12; 124:8,21,25;125:1,5; 129:16;154:9,25; 155:9:165:18.19: 199:21;200:6,14; 209:24;212:11; 214:12;217:12,23; 226:23 fraudulent (8) 33:23;34:1;73:24; 86:15;129:7; 201:18;217:6;223:23; 136:22;138:8;145:12; 160:15;169:13;203:3; 228:6;230:1,4 fraudulently (1) 222:21;230:4;232:20; 228:5 free (8) 91:13;102:20,21; 119:11:130:23:157:7; 158:1;160:13 freedom (1) 70:1 **FREEZE** (1) 55:16 Freeze (11) 47:6;65:10;73:16; 26:24;30:14;50:16, 25;51:2,3;53:15; 148:13;181:4;199:23; 54:19:55:6:56:7.21 frequency (1) 124:24 friend (2)

94:19,19 friends (3) 94:23:182:13; 185:19 fringe (1) 197:21 front (2) 33:8:167:2 Frontier (1) 184:18 fruit (1) 165:12 frustrated (1) 156:21 frustrating (2) 24:4;196:14 **FSA** (1) 161:5 fuel (3) 48:13;50:10;62:1 fulfilled (2) 168:23:169:4 full (9) 5:23;6:10;11:21; 131:20;196:11; 239:10;243:15,17; 244:17 full-panel (1) 199:18 **fully** (11) 52:20:67:17:83:16, 25:84:3.7:107:25: 109:25;178:8;179:9; 243:14 fun (1) 98:8 function (1) 68:10 functional (1) 237:13 functionality (1) 29:25 functioning (1) 102:8 Fund (1) 238:25 fundamental (2) 29:6,22 funded (2) 207:12;241:12 funding (8) 17:13:23:4:136:21: 146:6;161:17;201:13; 208:3,11 funds (5) 23:16;136:13,23; 208:4;222:25 fungicides (1) 91:14 further (9) 108:21:109:20: 126:24;161:17;171:4, 6;204:8,18;226:16

- Vol. 2 April 25, 2024

Furthermore (1) 212:7 futile (1) 77:7 future (11) 30:5:31:19:32:5; 33:15;40:20;46:1; 170:7;220:4;221:6; 232:22;255:16 G 151:12;200:11;

gain (3) 251:9 Gaines (1) 58:21 gallery (1) 5:22 game (1) 57:15 gaps (1) 175:21 Garth (11) 118:15;123:6,17; 127:19,21,23;130:9, 12;131:14;132:10,16 gate (1) 131:7 gather (1) 178:3 gathering (1) 214:22 gave (2)146:22;158:22 gear (1) 52:15 gee (1) 93:3 gene-edited (2) 125:13.14 general (11) 85:15;90:18;98:24; 104:12;131:7;132:3; 176:15;230:19;238:7; 245:7;253:13 generally (5) 17:14;90:17;236:4; 250:23;253:14 generated (1) 203:20 generation (1) 17:25 generic (3) 126:8;174:19,23 Genesis (1) 181:5 genetic (2) 53:20;100:17 genetically (1) 158:3 genetics (10) 53:21;56:10;100:4,

Burke Court Reporting & Transcription (973) 692-0660

(17) focusing - genetics

~p		1	1	F
8,12,12,13,20;125:8,9	27:15;59:14,21;	43:9	181:2	33:10;45:23;113:9,
Georgia (2)	69:13;78:10,25;	grade (3)	grazing (3)	12;116:23;138:20;
22:2;154:7	82:20;126:18;161:17;	124:5;136:8,8	70:2;130:3;132:20	146:24,24;155:10,14;
Gerling (8)	178:5	grades (1)	great (67)	165:10;166:25;
147:14;154:1;	Golbitz (11)	28:9	15:23;18:24;25:6,	175:14;180:2;194:2;
157:3,5,5;159:2,8,13	202:14;208:19;	graduate (1)	22;26:14;27:12;35:1,	208:5,8;211:16;
gets (8)	210:24;211:3,5,5;	164:9	20;38:6;39:3,17; 40:15;41:14;46:5,22,	212:14;213:19; 238:25;240:5;244:22
45:22;76:17;77:7; 113:10;144:2;153:13;	213:16;214:13,20; 215:7,10	graduated (1) 216:10	22;50:13;51:24;55:4;	grouped (1)
172:1;175:15	gold (2)	grain (74)	57:25;61:16;62:25;	173:14
Ghana (1)	140:5;247:15	64:25;65:17;70:23;	65:6,17;70:6;71:13;	groups (20)
234:3	Good (117)	99:5;101:11;105:15;	72:5;87:3;91:6;94:13;	112:17,18,25;
Giacomini (16)	9:1,2,4,5,13,14,21,	119:13,14;123:24,25;	98:10;110:12;111:2;	113:1,1,7;116:23,24;
27:21;30:17,19,19;	22,24,25;10:2,3,5,6,8,	124:3,14;126:11;	114:3;116:15,20;	117:5;133:20;200:8,
33:4;34:8;35:5,17;	11,12,15,17;16:5,6;	131:20;143:22,25;	117:2;121:23;127:11;	9,13,20;202:2,4;
38:8;39:2;40:22;42:3;	20:9;26:4;27:25;	144:2,13,14;145:18,	130:19;135:13;	213:3,13,24;234:12
44:4;46:3,5;69:10	43:11;44:7;45:11;	20;146:3;147:6;	136:15,20;142:19;	grow (31)
Giannforte (14)	46:3;56:13;61:10;	164:22;165:14,18;	143:20;147:21;	54:17;55:15;56:4,6,
123:18;127:19;	64:16,16;65:25;	166:13;182:5,18,22,	151:14;155:17,21;	19;59:9;61:11,25;
135:8,12,13,15,17,19;	66:22;68:13;69:9;	24;183:9,11,25;	162:18;163:4;164:8;	62:2,4,4;66:1,2;
136:2,3;138:16;	71:11,20;76:4,4,5;	184:1;191:17,23;	173:4,25;174:7;	91:20;104:3;126:21;
139:14;140:1,7	77:3,3;79:1,5,6,6,9,	192:3;193:5;199:6,	180:1;199:24;200:9;	136:10,16;137:2;
given (12)	12,13,13,18;80:25;	16;209:2;217:8;	201:23;205:20;	143:24;156:11,13;
35:8;47:21;71:15, 23;100:14;148:21;	81:4,8,10,11,11,12,14, 14,15,15,18;82:13,25;	222:8;223:11;228:5, 6,12,19;230:1;233:16,	218:22;224:9;238:9; 239:23,23;247:1;	183:23;187:17;189:1; 195:5;212:24;219:24;
170:15;221:24;	87:17,17,24;88:17,19;	16,24;234:10,18,23;	239.23,23,247.1, 249:8	228:16;248:5,21
233:24;234:22;	90:24;92:1,3;93:21,	247:21,22,24;248:4,6,	greater (5)	grower (9)
249:15;256:1	21;94:16;97:8;119:8,	7,8,11,16,16,20;	83:21;84:6;85:2;	97:4,19,22;127:24;
gives (3)	9;123:23,23;138:4;	249:7;250:15,16;	92:21;161:24	200:13;202:4;213:13;
115:1,23;132:22	152:16;164:17;	251:22;255:1,11,24	greatly (2)	222:25;251:11
giving (8)	175:13;179:21,25;	grains (30)	22:18;166:14	growers (33)
26:23;55:12;92:11;	182:14,20,22;183:4;	64:17,22;65:2,3;	greed (1)	48:9;96:25;97:3,16,
115:11;191:19;	184:17;185:14;	83:10;85:22;105:12;	86:7	16,17;98:2;129:11;
194:11;199:7;235:13	197:14;198:12;199:4;	124:8;127:6;136:5;	green (1)	140:25;142:7;154:6;
glad (4) 16:21;17:1;56:24;	202:15;207:9;211:3, 4,23;214:16;216:4;	138:11;141:3;182:12; 183:6,8;192:18,20;	169:21 greenhouse (8)	155:3,10,17,20;166:7, 9;184:19;186:16,17;
152:21	219:10;222:5;225:7;	211:9;217:6;218:3,	48:11,12;49:13,19,	190:3,16;220:23;
glasses (1)	233:10;237:16;239:9,	14;228:13;229:4,7,	24,25;50:1,5	222:13,18,24;223:20;
219:6	16;248:23;251:8;	20;230:4;248:14;	greenhouses (2)	228:10;231:17,20;
global (5)	254:7,10,12;256:14	249:6,7;254:18	49:16,20	232:7;234:5;236:19
128:6;168:8;	goodness (1)	grant (8)	greens (1)	growers' (1)
199:23;224:6;245:21	51:2	43:7;89:12;136:13,	143:23	129:18
globally (2)	goods (1)	15;138:8;144:6;	greenwashing (1)	growing (31)
178:4;179:8	142:23	145:23;207:23	247:18	31:15;52:9;55:25;
glyphosate (2) 65:9;225:19	Google (1) 122:3	grants (4) 43:6;133:18;134:1;	grew (2) 97:7;216:10	56:14;57:24;59:5,21; 61:10,11;64:10,15;
GMO (14)	gosh (1)	136:22	Grimmway's (1)	65:25;71:20;76:4;
52:8;92:6;103:5;	205:23	granular (1)	160:7	80:7;82:13;83:3;
124:14,17;125:15;	gosh-darn (1)	122:5	grocery (2)	100:11;113:4;143:22,
127:2,12,12;185:9,12,	164:21	graph (1)	73:25;101:16	25;147:7;149:8;
22,23,24	govern (2)	149:2	gross (1)	167:18;214:14;
GMOs (1)	88:8;213:4	grass-fed (7)	160:19	222:15;230:24;
226:13	Government (9)	14:20;15:5;93:1,3;	ground (13)	231:24;232:9;248:24;
goal (3)	17:8;43:8;83:21;	129:4,5;134:3	37:9;76:5;80:11;	249:3
200:6;201:1;219:21	84:24;102:6;160:14;	grateful (4)	81:12;84:15;90:5;	grown (9)
goals (4) 28:23;195:5;	161:7;163:11;229:14 governments (1)	8:1;11:21;57:16; 64:7	187:4;195:3,9; 201:17,18;231:9;	56:2;59:23;60:14;
28.25,195.5, 212:21,22	167:21	gratitude (1)	253:8	71:3;155:4;157:7; 212:13;231:8;249:2
goats (1)	governor (1)	176:18	ground-wise (1)	growth (5)
72:22	135:11	gray (3)	81:5	92:2;167:18;168:8;
God (1)	grace (1)	178:23;179:2;	groundwork (1)	190:10;219:12
58:24	8:20	180:24	40:14	guarantee (1)
goes (10)	grad (1)	grayness (1)	group (23)	248:14

guarding (2) 164:13.14 guardrails (1) 171:6 guess (21) 14:13;43:22,24; 73:14;79:17;90:24; 113:3;116:2;117:17; 151:12;178:12;183:7, 11,11;186:2;192:10, 22;205:25;243:19; 250:9:253:5 guest (1) 224:20 guidance (6) 85:7;112:20;122:2. 4;129:23;232:4 guide (1) 166:14 guidelines (2) 68:20;242:12 Guild (1) 128:1 guilty (1) 102:9 Gunther (16) 46:7;56:25;57:7,9, 12,12;58:12,15,17,20, 24;59:10;61:14; 62:11,16:63:17 guy (10) 19:1:63:20:66:20. 21;67:5;69:6,8;150:9; 156:20;194:15 guys (35) 5:3;34:22;41:13,15; 57:7;61:23;70:21; 75:8,23;76:9,23; 77:13;80:8,9,11; 81:23,25;82:17;88:8; 92:1:95:25:98:24: 99:2;106:22;117:25; 118:6;137:25;140:9; 145:11;174:8;176:16; 180:9;184:12;210:1,9 Η H2O(1) 244:11 hailstorm (1) 129:21 half (10) 42:22;51:11,21,22; 53:16;59:19;76:11; 104:14;161:6;213:23 hamstrung (1) 210:4

23 handful (2) 128:24;222:23 handing (1) 59:24 handle (4) 73:2;126:14;147:3; 200:2 handled (1) 124:12 handler (1) 205:1 handlers (2) 111:12;211:21 hat (1) handling (5) 47:2;101:21; 110:17;146:3;206:3 hand-raising (1) 138:5 hands (3) hay (6) 32:8;94:22;186:9 handy (1) 95:4 hang (5) 16:3;22:23;158:18; 186:23;237:3 hanging (3) 100:16;135:5; 256:13 hang-up (1) 241:20 Hanson (14) 233:7:235:16.20, 20;237:2,5,15,17,24; 238:13,21,24;239:13, 17 happen (6) 6:16;92:2;104:7; 130:18:161:19: 213:14 happened (2) 14:17:195:15 happening (6) 15:21;43:23; 115:24;164:1;167:2; 171:7 happens (4) 180:8;181:24; 192:14;245:23 happy (6) 69:5:70:20:155:9: 161:11;244:20,22 harboring (1) 200:14 hard (25) 18:16;19:5;22:5; 30:3,8;39:3;54:22; 63:6,10;73:25;77:21; 104:15;131:9;137:4; 156:17:162:13; 172:20;175:16;176:8; 179:1;180:7;197:23; 215:16,17;229:19

hard-earned (1) 212:24 harder (3) 42:8:78:13:134:21 hardly (2) 23:9;65:13 harm (1) 157:15 harmful (2) 28:15:29:14 harvest (5) 73:2;203:23,24; 206:14,17 131:9 hats (2) 64:9;127:24 haul (3) 76:16;78:19;133:7 57:14;59:14,18,19; 66:1;129:9 head (8) 53:8,12;95:13; 114:19;163:8;167:13; 175:17;190:18 heads (3) 10:17;54:2;139:5 health (15) 28:7,23:29:8,21; 30:1:67:10:148:14; 149:24:151:8:157:16: 180:3:220:2:224:3: 231:22:236:16 healthier (1) 220:24 hear (55) 7:12;11:18;14:1; 17:12;23:7;24:9; 27:13,14:57:7.9; 60:18:66:6:72:14: 75:23;78:12;79:19; 85:18;87:5;92:23; 100:1;101:7;103:19, 21;105:9;106:7; 107:1;110:16;111:15; 118:14;119:6;123:23; 135:17;139:12; 140:14,15;143:17; 146:13;147:17;154:2; 162:6;174:1,9;183:2; 184:12;191:13,14; 199:3;201:24;208:22; 221:15;227:8,23; 239:23;254:15; 255:23 heard (22) 15:4;23:5;48:19; 54:11;57:20;65:24; 75:3:104:10:111:15: 139:9,22;145:22; 152:20;167:12;170:9; 172:11;176:25;

183:18:184:24; 209:22;229:24; 233:14 hearing (18) 11:16:12:24:52:2; 63:15;65:4;66:9,10; 94:21;98:20;110:16, 21;138:8;155:17; 162:15;181:16; 190:11:198:19; 255:22 heart (2) 41:19;151:12 heat (1) 153:13 Heather (1) 11:5heavens (1) 93:21 heavier (1) 165:12 heavily (2) 175:17;220:12 heavy (3) 174:2;197:22; 233:22 heel (1) 212:16 held (4) 62:3;137:23; 209:19:228:10 helium (1) 241:1 hello (7) 5:5;7:19;9:16; 46:10;63:23;157:5; 159:16 help (43) 19:25;22:15,17; 23:22:24:8:39:25; 44:1,14;50:6;54:17; 56:19:59:8,9:67:13: 71:22;74:5;79:7,8; 80:16,21;94:23; 109:1;112:15;124:19; 134:17;136:16,20; 138:9;144:8;155:20; 160:10;162:1,14; 181:12;182:24;183:6; 211:20;219:24; 222:19;245:20; 248:15;250:21; 255:24 helped (4) 78:24;80:18; 176:14;200:11 helper (1) 71:8 helpful (19) 38:7;51:22;56:17; 72:3;90:6;106:1; 112:16:116:16; 121:25;175:4;176:2;

- Vol. 2 April 25, 2024

181:2;187:6;198:1; 206:23:207:21:208:5. 14:214:19 helping (13) 26:6;33:9;34:24; 64:2;112:19;116:17; 144:16;155:18;156:7; 176:22;190:3;248:23; 255:16 helpless (1) 153:18 helps (8) 23:18;76:5;79:9,12; 80:15;81:15;116:19; 220:7 hence (1) 216:24 herbicide (1) 86:21 herbicides (5) 91:14:157:18; 189:6;199:23;225:20 herbicizing (1) 128:11 herd (3) 17:17;18:6;216:24 here's (3) 9:3;20:7;193:11 Hey (8) 25:10;53:2;118:19; 187:1;193:11;201:22; 213:11:233:10 Hi (27) 10:9;14:1;24:2; 46:10;49:10;58:10; 72:13;73:6;77:20; 98:16:107:16:125:23; 131:14;152:18;168:5, 5;182:4;184:12; 191:12,13,16;225:3,4; 238:18;242:5,6; 249:13 hierarchy (1) 49:5 high (18) 14:7;28:22;81:2; 96:21;100:9;106:4; 131:9;149:11;150:14, 18;152:6;169:19; 181:10;195:4;209:19; 210:6;243:6;250:25 higher (17) 52:10;78:16;85:6; 149:2,9;150:24,25; 152:11;167:10,19; 197:12,24,24,24; 203:9,13;228:10 highest (1) 228:19 highest-punch (1) 159:5 highest-yielding (1) 64:13

Min-U-Script®

hand (13)

5:15;8:21;11:8;

41:12;82:10;122:20;

144:25;156:4;166:21;

179:3;188:18;215:21,

Burke Court Reporting & Transcription (973) 692-0660 (19) guarding - highest-yielding

		T		
highlight (8)	Holoubek (9)	38:20;109:7;157:16;	identity-preserved (3)	112:5;125:16;161:3;
	95:24;96:3,11,12,	236:16;246:10		
58:4;60:17;65:7;			127:6;222:11;	167:1;173:22;188:18;
82:13;91:4;138:8;	15,15;98:24;100:3,24	humane (1)	247:20	210:18;220:1,4;221:5
164:21;169:16	home (3)	68:8	ideologues (1)	importantly (1)
highlighted (1)	15:13;90:19,21	humans (1)	28:16	128:10
41:17	honest (2)	67:23	ides (1)	importation (3)
highlighting (2)	94:10;197:18	humble (1)	91:14	192:18;193:5;
110:15;221:3	honestly (4)	84:24	ignore (1)	212:18
highlights (1)	133:4;134:21;	hundred (1)	229:1	imported (51)
119:23	163:18;244:9	218:4	illegal (1)	19:4,10;51:14;56:2;
highly (4)	hooks (1)	hundreds (1)	239:3	59:18;60:7;63:8;
200:1;253:14;	91:8	234:4	illegitimate (1)	64:17;65:1,2,17;83:9;
254:25,25	hope (8)	hunting (1)	221:1	101:25;103:21;120:4,
high-quality (2)	24:8;30:6;126:23;	74:11	Illinois (3)	7,15;121:3,7;124:18;
204:22;253:20	144:17;145:11;	hurdle (1)	96:23;101:12;154:7	130:17;155:1;182:11,
high-risk (1)	165:19;217:2;238:10	136:24	imagine (1)	18;183:10;184:21;
169:20	hopefully (6)	hurdles (1)	172:21	191:23;192:8,20;
hill (3)	17:15;24:23;94:20;	84:2		191.23,192.8,20, 199:16;201:5;211:12;
			immature (1) 200:9	
163:1;216:5,24	126:12;135:23;	hurt (3)		213:17;217:8,14;
himself (1)	198:13	151:17;229:11;	immediate (4)	220:21;228:5;229:4;
50:21	hoping (4)	230:2	84:3;121:2;179:16;	230:4;233:15,24;
hint (1)	69:12;72:1,6;	hurting (2)	233:15	234:18;247:24;
222:7	192:14	49:18;145:5	immediately (2)	248:14;249:6,18,23,
hire (2)	hormone (2)	Huseman (35)	109:24;201:10	25;250:6;254:18;
130:2;131:6	92:2,9	9:20,21;41:16;	imminently (1)	255:11
hired (1)	hormone-free (1)	43:13;50:3;55:10,24;	130:20	importer (5)
34:9	158:2	56:16;58:10,13,16,18,	immune (1)	120:12;130:21;
history (1)	hormones (3)	22;59:1;60:16;98:16;	68:10	131:5,24,25
170:15	91:16,22;129:10	99:17;105:7;106:5;	impact (10)	importers (2)
hit (10)	horse (1)	113:19;114:11;115:4,	58:23;83:8;84:3;	111:12;121:6
50:19;59:20;75:17;	84:10	9;125:23;126:22;	108:10;114:18;	ImportInfo (1)
107:5;129:21;176:7;	horticulturists (1)	138:4;152:18;153:21;	115:22;118:1;150:18;	120:2
189:14;190:17;195:4;	203:2	201:22;202:8;214:3;	204:9;234:22	importing (2)
224:16	host (2)	249:13;250:9,20;	impactful (1)	192:3;194:15
hits (3)	6:22;197:17	251:3	219:23	imports (41)
134:20;186:6,11	hot (3)	hydrogen (1)	impacts (5)	51:10,16;56:22;
hitting (1)	49:21;115:25;	68:5	109:25;178:4,9;	57:19,22;60:13;
41:16	241:25	hydroponic (2)	179:8;186:16	84:10;86:9;102:10;
Hockley (1)	hour (4)	29:12,17	imperative (1)	110:15,19;112:6;
58:20	4:10;191:4,4;223:7			
$h_{\alpha\alpha}(1)$		_	154:20	137:11,14,15;139:12,
hog (1)	hours (1)	I	implement (6)	24;145:1;154:12;
209:3	hours (1) 134:23		implement (6) 112:14;114:8;	24;145:1;154:12; 164:15;182:13,23;
209:3 hogs (4)	hours (1) 134:23 house (2)	ice (1)	implement (6)	24;145:1;154:12; 164:15;182:13,23; 193:7,9,9;194:4,5;
209:3 hogs (4) 72:15,21;79:11;	hours (1) 134:23 house (2) 92:20;153:19		implement (6) 112:14;114:8; 115:1;138:9;199:17; 217:7	24;145:1;154:12; 164:15;182:13,23; 193:7,9,9;194:4,5; 199:17,18;202:4;
209:3 hogs (4)	hours (1) 134:23 house (2) 92:20;153:19 households (1)	ice (1)	implement (6) 112:14;114:8; 115:1;138:9;199:17;	24;145:1;154:12; 164:15;182:13,23; 193:7,9,9;194:4,5;
209:3 hogs (4) 72:15,21;79:11; 252:2 hold (16)	hours (1) 134:23 house (2) 92:20;153:19	ice (1) 133:21	implement (6) 112:14;114:8; 115:1;138:9;199:17; 217:7	24;145:1;154:12; 164:15;182:13,23; 193:7,9,9;194:4,5; 199:17,18;202:4;
209:3 hogs (4) 72:15,21;79:11; 252:2 hold (16) 27:18;37:2,9;39:3;	hours (1) 134:23 house (2) 92:20;153:19 households (1) 255:5 houses (1)	ice (1) 133:21 icon (1) 107:4 idea (5)	implement (6) 112:14;114:8; 115:1;138:9;199:17; 217:7 implementation (3) 109:24;114:1; 115:23	24;145:1;154:12; 164:15;182:13,23; 193:7,9,9;194:4,5; 199:17,18;202:4; 209:10;211:14;212:1, 10;213:20;221:1; 228:19;234:2,15,23;
209:3 hogs (4) 72:15,21;79:11; 252:2 hold (16) 27:18;37:2,9;39:3; 63:7,7;71:9;87:5;	hours (1) 134:23 house (2) 92:20;153:19 households (1) 255:5 houses (1) 36:21	ice (1) 133:21 icon (1) 107:4 idea (5) 39:17;40:15,18;	implement (6) 112:14;114:8; 115:1;138:9;199:17; 217:7 implementation (3) 109:24;114:1; 115:23 implemented (2)	24;145:1;154:12; 164:15;182:13,23; 193:7,9,9;194:4,5; 199:17,18;202:4; 209:10;211:14;212:1, 10;213:20;221:1; 228:19;234:2,15,23; 235:1
209:3 hogs (4) 72:15,21;79:11; 252:2 hold (16) 27:18;37:2,9;39:3; 63:7,7;71:9;87:5; 156:2;190:6;192:14;	hours (1) 134:23 house (2) 92:20;153:19 households (1) 255:5 houses (1) 36:21 Hudson (2)	ice (1) 133:21 icon (1) 107:4 idea (5) 39:17;40:15,18; 146:23;178:19	implement (6) 112:14;114:8; 115:1;138:9;199:17; 217:7 implementation (3) 109:24;114:1; 115:23 implemented (2) 121:5;154:24	24;145:1;154:12; 164:15;182:13,23; 193:7,9,9;194:4,5; 199:17,18;202:4; 209:10;211:14;212:1, 10;213:20;221:1; 228:19;234:2,15,23; 235:1 impose (1)
209:3 hogs (4) 72:15,21;79:11; 252:2 hold (16) 27:18;37:2,9;39:3; 63:7,7;71:9;87:5; 156:2;190:6;192:14; 200:22,25;201:3;	hours (1) 134:23 house (2) 92:20;153:19 households (1) 255:5 houses (1) 36:21 Hudson (2) 131:8;132:3	ice (1) 133:21 icon (1) 107:4 idea (5) 39:17;40:15,18;	implement (6) 112:14;114:8; 115:1;138:9;199:17; 217:7 implementation (3) 109:24;114:1; 115:23 implemented (2)	24;145:1;154:12; 164:15;182:13,23; 193:7,9,9;194:4,5; 199:17,18;202:4; 209:10;211:14;212:1, 10;213:20;221:1; 228:19;234:2,15,23; 235:1 impose (1) 186:3
209:3 hogs (4) 72:15,21;79:11; 252:2 hold (16) 27:18;37:2,9;39:3; 63:7,7;71:9;87:5; 156:2;190:6;192:14;	hours (1) 134:23 house (2) 92:20;153:19 households (1) 255:5 houses (1) 36:21 Hudson (2)	ice (1) 133:21 icon (1) 107:4 idea (5) 39:17;40:15,18; 146:23;178:19	implement (6) 112:14;114:8; 115:1;138:9;199:17; 217:7 implementation (3) 109:24;114:1; 115:23 implemented (2) 121:5;154:24	24;145:1;154:12; 164:15;182:13,23; 193:7,9,9;194:4,5; 199:17,18;202:4; 209:10;211:14;212:1, 10;213:20;221:1; 228:19;234:2,15,23; 235:1 impose (1)
209:3 hogs (4) 72:15,21;79:11; 252:2 hold (16) 27:18;37:2,9;39:3; 63:7,7;71:9;87:5; 156:2;190:6;192:14; 200:22,25;201:3;	hours (1) 134:23 house (2) 92:20;153:19 households (1) 255:5 houses (1) 36:21 Hudson (2) 131:8;132:3	ice (1) 133:21 icon (1) 107:4 idea (5) 39:17;40:15,18; 146:23;178:19 ideal (2) 42:17;133:15 ideas (1)	implement (6) 112:14;114:8; 115:1;138:9;199:17; 217:7 implementation (3) 109:24;114:1; 115:23 implemented (2) 121:5;154:24 implementing (3)	24;145:1;154:12; 164:15;182:13,23; 193:7,9,9;194:4,5; 199:17,18;202:4; 209:10;211:14;212:1, 10;213:20;221:1; 228:19;234:2,15,23; 235:1 impose (1) 186:3
209:3 hogs (4) 72:15,21;79:11; 252:2 hold (16) 27:18;37:2,9;39:3; 63:7,7;71:9;87:5; 156:2;190:6;192:14; 200:22,25;201:3; 225:9;253:17	hours (1) 134:23 house (2) 92:20;153:19 households (1) 255:5 houses (1) 36:21 Hudson (2) 131:8;132:3 huge (14)	ice (1) 133:21 icon (1) 107:4 idea (5) 39:17;40:15,18; 146:23;178:19 ideal (2) 42:17;133:15	implement (6) 112:14;114:8; 115:1;138:9;199:17; 217:7 implementation (3) 109:24;114:1; 115:23 implemented (2) 121:5;154:24 implementing (3) 109:5,17;115:19	24;145:1;154:12; 164:15;182:13,23; 193:7,9,9;194:4,5; 199:17,18;202:4; 209:10;211:14;212:1, 10;213:20;221:1; 228:19;234:2,15,23; 235:1 impose (1) 186:3 imposed (2)
209:3 hogs (4) 72:15,21;79:11; 252:2 hold (16) 27:18;37:2,9;39:3; 63:7,7;71:9;87:5; 156:2;190:6;192:14; 200:22,25;201:3; 225:9;253:17 holding (3)	hours (1) 134:23 house (2) 92:20;153:19 households (1) 255:5 houses (1) 36:21 Hudson (2) 131:8;132:3 huge (14) 80:7;128:23;	ice (1) 133:21 icon (1) 107:4 idea (5) 39:17;40:15,18; 146:23;178:19 ideal (2) 42:17;133:15 ideas (1)	implement (6) 112:14;114:8; 115:1;138:9;199:17; 217:7 implementation (3) 109:24;114:1; 115:23 implemented (2) 121:5;154:24 implementing (3) 109:5,17;115:19 import (13)	24;145:1;154:12; 164:15;182:13,23; 193:7,9,9;194:4,5; 199:17,18;202:4; 209:10;211:14;212:1, 10;213:20;221:1; 228:19;234:2,15,23; 235:1 impose (1) 186:3 imposed (2) 16:11;86:9
209:3 hogs (4) 72:15,21;79:11; 252:2 hold (16) 27:18;37:2,9;39:3; 63:7,7;71:9;87:5; 156:2;190:6;192:14; 200:22,25;201:3; 225:9;253:17 holding (3) 11:14;63:4;136:24	hours (1) 134:23 house (2) 92:20;153:19 households (1) 255:5 houses (1) 36:21 Hudson (2) 131:8;132:3 huge (14) 80:7;128:23; 133:22;134:4;144:8;	ice (1) 133:21 icon (1) 107:4 idea (5) 39:17;40:15,18; 146:23;178:19 ideal (2) 42:17;133:15 ideas (1) 39:3	implement (6) 112:14;114:8; 115:1;138:9;199:17; 217:7 implementation (3) 109:24;114:1; 115:23 implemented (2) 121:5;154:24 implementing (3) 109:5,17;115:19 import (13) 63:4;65:11;101:17;	24;145:1;154:12; 164:15;182:13,23; 193:7,9,9;194:4,5; 199:17,18;202:4; 209:10;211:14;212:1, 10;213:20;221:1; 228:19;234:2,15,23; 235:1 impose (1) 186:3 imposed (2) 16:11;86:9 impossible (2)
209:3 hogs (4) 72:15,21;79:11; 252:2 hold (16) 27:18;37:2,9;39:3; 63:7,7;71:9;87:5; 156:2;190:6;192:14; 200:22,25;201:3; 225:9;253:17 holding (3) 11:14;63:4;136:24 holds (1)	hours (1) 134:23 house (2) 92:20;153:19 households (1) 255:5 houses (1) 36:21 Hudson (2) 131:8;132:3 huge (14) 80:7;128:23; 133:22;134:4;144:8; 145:2;160:14;183:22;	ice (1) 133:21 icon (1) 107:4 idea (5) 39:17;40:15,18; 146:23;178:19 ideal (2) 42:17;133:15 ideas (1) 39:3 identical (1)	implement (6) 112:14;114:8; 115:1;138:9;199:17; 217:7 implementation (3) 109:24;114:1; 115:23 implemented (2) 121:5;154:24 implementing (3) 109:5,17;115:19 import (13) 63:4;65:11;101:17; 120:2,19;148:25;	24;145:1;154:12; 164:15;182:13,23; 193:7,9,9;194:4,5; 199:17,18;202:4; 209:10;211:14;212:1, 10;213:20;221:1; 228:19;234:2,15,23; 235:1 impose (1) 186:3 imposed (2) 16:11;86:9 impossible (2) 142:5;241:25
209:3 hogs (4) 72:15,21;79:11; 252:2 hold (16) 27:18;37:2,9;39:3; 63:7,7;71:9;87:5; 156:2;190:6;192:14; 200:22,25;201:3; 225:9;253:17 holding (3) 11:14;63:4;136:24 holds (1) 131:16	hours (1) 134:23 house (2) 92:20;153:19 households (1) 255:5 houses (1) 36:21 Hudson (2) 131:8;132:3 huge (14) 80:7;128:23; 133:22;134:4;144:8; 145:2;160:14;183:22; 197:7;207:14,15; 229:8;236:5;250:14 Hugh (1)	ice (1) 133:21 icon (1) 107:4 idea (5) 39:17;40:15,18; 146:23;178:19 ideal (2) 42:17;133:15 ideas (1) 39:3 identical (1) 105:20	implement (6) 112:14;114:8; 115:1;138:9;199:17; 217:7 implementation (3) 109:24;114:1; 115:23 implemented (2) 121:5;154:24 implementing (3) 109:5,17;115:19 import (13) 63:4;65:11;101:17; 120:2,19;148:25; 154:9;209:24;213:14; 218:13,15;248:6; 253:18	24;145:1;154:12; 164:15;182:13,23; 193:7,9,9;194:4,5; 199:17,18;202:4; 209:10;211:14;212:1, 10;213:20;221:1; 228:19;234:2,15,23; 235:1 impose (1) 186:3 imposed (2) 16:11;86:9 impossible (2) 142:5;241:25 impressed (2) 57:19;176:15 improve (7)
209:3 hogs (4) 72:15,21;79:11; 252:2 hold (16) 27:18;37:2,9;39:3; 63:7,7;71:9;87:5; 156:2;190:6;192:14; 200:22,25;201:3; 225:9;253:17 holding (3) 11:14;63:4;136:24 holds (1) 131:16 holistic (1) 33:25 HOLM (8)	hours (1) 134:23 house (2) 92:20;153:19 households (1) 255:5 houses (1) 36:21 Hudson (2) 131:8;132:3 huge (14) 80:7;128:23; 133:22;134:4;144:8; 145:2;160:14;183:22; 197:7;207:14,15; 229:8;236:5;250:14 Hugh (1) 39:23	ice (1) 133:21 icon (1) 107:4 idea (5) 39:17;40:15,18; 146:23;178:19 ideal (2) 42:17;133:15 ideas (1) 39:3 identical (1) 105:20 identified (1)	implement (6) 112:14;114:8; 115:1;138:9;199:17; 217:7 implementation (3) 109:24;114:1; 115:23 implemented (2) 121:5;154:24 implementing (3) 109:5,17;115:19 import (13) 63:4;65:11;101:17; 120:2,19;148:25; 154:9;209:24;213:14; 218:13,15;248:6; 253:18 importance (3)	24;145:1;154:12; 164:15;182:13,23; 193:7,9,9;194:4,5; 199:17,18;202:4; 209:10;211:14;212:1, 10;213:20;221:1; 228:19;234:2,15,23; 235:1 impose (1) 186:3 imposed (2) 16:11;86:9 impossible (2) 142:5;241:25 impressed (2) 57:19;176:15
209:3 hogs (4) 72:15,21;79:11; 252:2 hold (16) 27:18;37:2,9;39:3; 63:7,7;71:9;87:5; 156:2;190:6;192:14; 200:22,25;201:3; 225:9;253:17 holding (3) 11:14;63:4;136:24 holds (1) 131:16 holistic (1) 33:25	hours (1) 134:23 house (2) 92:20;153:19 households (1) 255:5 houses (1) 36:21 Hudson (2) 131:8;132:3 huge (14) 80:7;128:23; 133:22;134:4;144:8; 145:2;160:14;183:22; 197:7;207:14,15; 229:8;236:5;250:14 Hugh (1)	ice (1) 133:21 icon (1) 107:4 idea (5) 39:17;40:15,18; 146:23;178:19 ideal (2) 42:17;133:15 ideas (1) 39:3 identical (1) 105:20 identified (1) 110:25 identify (1) 131:10	implement (6) 112:14;114:8; 115:1;138:9;199:17; 217:7 implementation (3) 109:24;114:1; 115:23 implemented (2) 121:5;154:24 implementing (3) 109:5,17;115:19 import (13) 63:4;65:11;101:17; 120:2,19;148:25; 154:9;209:24;213:14; 218:13,15;248:6; 253:18	24;145:1;154:12; 164:15;182:13,23; 193:7,9,9;194:4,5; 199:17,18;202:4; 209:10;211:14;212:1, 10;213:20;221:1; 228:19;234:2,15,23; 235:1 impose (1) 186:3 imposed (2) 16:11;86:9 impossible (2) 142:5;241:25 impressed (2) 57:19;176:15 improve (7)
209:3 hogs (4) 72:15,21;79:11; 252:2 hold (16) 27:18;37:2,9;39:3; 63:7,7;71:9;87:5; 156:2;190:6;192:14; 200:22,25;201:3; 225:9;253:17 holding (3) 11:14;63:4;136:24 holds (1) 131:16 holistic (1) 33:25 HOLM (8)	hours (1) 134:23 house (2) 92:20;153:19 households (1) 255:5 houses (1) 36:21 Hudson (2) 131:8;132:3 huge (14) 80:7;128:23; 133:22;134:4;144:8; 145:2;160:14;183:22; 197:7;207:14,15; 229:8;236:5;250:14 Hugh (1) 39:23	ice (1) 133:21 icon (1) 107:4 idea (5) 39:17;40:15,18; 146:23;178:19 ideal (2) 42:17;133:15 ideas (1) 39:3 identical (1) 105:20 identified (1) 110:25 identify (1)	implement (6) 112:14;114:8; 115:1;138:9;199:17; 217:7 implementation (3) 109:24;114:1; 115:23 implemented (2) 121:5;154:24 implementing (3) 109:5,17;115:19 import (13) 63:4;65:11;101:17; 120:2,19;148:25; 154:9;209:24;213:14; 218:13,15;248:6; 253:18 importance (3)	24;145:1;154:12; 164:15;182:13,23; 193:7,9,9;194:4,5; 199:17,18;202:4; 209:10;211:14;212:1, 10;213:20;221:1; 228:19;234:2,15,23; 235:1 impose (1) 186:3 imposed (2) 16:11;86:9 impossible (2) 142:5;241:25 impressed (2) 57:19;176:15 improve (7) 24:6,8;34:23;58:5;
209:3 hogs (4) 72:15,21;79:11; 252:2 hold (16) 27:18;37:2,9;39:3; 63:7,7;71:9;87:5; 156:2;190:6;192:14; 200:22,25;201:3; 225:9;253:17 holding (3) 11:14;63:4;136:24 holds (1) 131:16 holistic (1) 33:25 HOLM (8) 13:15;96:9;106:18;	hours (1) 134:23 house (2) 92:20;153:19 households (1) 255:5 houses (1) 36:21 Hudson (2) 131:8;132:3 huge (14) 80:7;128:23; 133:22;134:4;144:8; 145:2;160:14;183:22; 197:7;207:14,15; 229:8;236:5;250:14 Hugh (1) 39:23 Hulett (6) 225:2;227:20; 230:12,18,18;233:5	ice (1) 133:21 icon (1) 107:4 idea (5) 39:17;40:15,18; 146:23;178:19 ideal (2) 42:17;133:15 ideas (1) 39:3 identical (1) 105:20 identified (1) 110:25 identify (1) 131:10	implement (6) 112:14;114:8; 115:1;138:9;199:17; 217:7 implementation (3) 109:24;114:1; 115:23 implemented (2) 121:5;154:24 implementing (3) 109:5,17;115:19 import (13) 63:4;65:11;101:17; 120:2,19;148:25; 154:9;209:24;213:14; 218:13,15;248:6; 253:18 importance (3) 87:11;108:8;255:9	24;145:1;154:12; 164:15;182:13,23; 193:7,9,9;194:4,5; 199:17,18;202:4; 209:10;211:14;212:1, 10;213:20;221:1; 228:19;234:2,15,23; 235:1 impose (1) 186:3 imposed (2) 16:11;86:9 impossible (2) 142:5;241:25 impressed (2) 57:19;176:15 improve (7) 24:6,8;34:23;58:5; 68:19;136:13;234:7 improved (4) 32:17;67:19;73:9;
209:3 hogs (4) 72:15,21;79:11; 252:2 hold (16) 27:18;37:2,9;39:3; 63:7,7;71:9;87:5; 156:2;190:6;192:14; 200:22,25;201:3; 225:9;253:17 holding (3) 11:14;63:4;136:24 holds (1) 131:16 holistic (1) 33:25 HOLM (8) 13:15;96:9;106:18; 118:19;123:10;	hours (1) 134:23 house (2) 92:20;153:19 households (1) 255:5 houses (1) 36:21 Hudson (2) 131:8;132:3 huge (14) 80:7;128:23; 133:22;134:4;144:8; 145:2;160:14;183:22; 197:7;207:14,15; 229:8;236:5;250:14 Hugh (1) 39:23 Hulett (6) 225:2;227:20;	ice (1) 133:21 icon (1) 107:4 idea (5) 39:17;40:15,18; 146:23;178:19 ideal (2) 42:17;133:15 ideas (1) 39:3 identical (1) 105:20 identified (1) 110:25 identify (1) 131:10 identity (2)	implement (6) 112:14;114:8; 115:1;138:9;199:17; 217:7 implementation (3) 109:24;114:1; 115:23 implemented (2) 121:5;154:24 implementing (3) 109:5,17;115:19 import (13) 63:4;65:11;101:17; 120:2,19;148:25; 154:9;209:24;213:14; 218:13,15;248:6; 253:18 importance (3) 87:11;108:8;255:9 important (20)	24;145:1;154:12; 164:15;182:13,23; 193:7,9,9;194:4,5; 199:17,18;202:4; 209:10;211:14;212:1, 10;213:20;221:1; 228:19;234:2,15,23; 235:1 impose (1) 186:3 imposed (2) 16:11;86:9 impossible (2) 142:5;241:25 impressed (2) 57:19;176:15 improve (7) 24:6,8;34:23;58:5; 68:19;136:13;234:7 improved (4)
209:3 hogs (4) 72:15,21;79:11; 252:2 hold (16) 27:18;37:2,9;39:3; 63:7,7;71:9;87:5; 156:2;190:6;192:14; 200:22,25;201:3; 225:9;253:17 holding (3) 11:14;63:4;136:24 holds (1) 131:16 holistic (1) 33:25 HOLM (8) 13:15;96:9;106:18; 118:19;123:10; 198:22;256:5,8	hours (1) 134:23 house (2) 92:20;153:19 households (1) 255:5 houses (1) 36:21 Hudson (2) 131:8;132:3 huge (14) 80:7;128:23; 133:22;134:4;144:8; 145:2;160:14;183:22; 197:7;207:14,15; 229:8;236:5;250:14 Hugh (1) 39:23 Hulett (6) 225:2;227:20; 230:12,18,18;233:5	ice (1) 133:21 icon (1) 107:4 idea (5) 39:17;40:15,18; 146:23;178:19 ideal (2) 42:17;133:15 ideas (1) 39:3 identical (1) 105:20 identified (1) 110:25 identify (1) 131:10 identity (2) 124:12;131:3	implement (6) 112:14;114:8; 115:1;138:9;199:17; 217:7 implementation (3) 109:24;114:1; 115:23 implemented (2) 121:5;154:24 implementing (3) 109:5,17;115:19 import (13) 63:4;65:11;101:17; 120:2,19;148:25; 154:9;209:24;213:14; 218:13,15;248:6; 253:18 importance (3) 87:11;108:8;255:9 important (20) 17:5;20:12;34:4;	24;145:1;154:12; 164:15;182:13,23; 193:7,9,9;194:4,5; 199:17,18;202:4; 209:10;211:14;212:1, 10;213:20;221:1; 228:19;234:2,15,23; 235:1 impose (1) 186:3 imposed (2) 16:11;86:9 impossible (2) 142:5;241:25 impressed (2) 57:19;176:15 improve (7) 24:6,8;34:23;58:5; 68:19;136:13;234:7 improved (4) 32:17;67:19;73:9;

Burke Court Reporting & Transcription (973) 692-0660

(20) highlight - improvement

42:1,4 improvements (1) 83:22 improving (2) 31:25;33:3 inadequate (1) 225:14 inbreds (2) 53:18,18 Incentive (6) 22:9;94:25;151:11, 21;190:19,22 incentives (2) 56:14:228:14 incentivize (1) 54:17 inches (1) 71:19 incidences (1) 150:25 include (15) 26:18;29:3;47:5; 102:7;113:2,3;141:4; 169:21;170:3;171:5, 12;178:14;204:5; 226:11,16 included (4) 43:19:109:15: 151:9;161:19 includes (4) 72:15:113:5:136:5; 231:4 including (11) 29:24:45:6:47:24: 204:17:213:17; 217:13;219:20; 232:16,22;233:20; 234:12 inclusions (1) 149:12 inclusive (1) 232:14 income (1) 141:18 incoming (1) 135:1 inconsistencies (2) 47:16;51:22 inconsistency (1) 104:11 inconsistent (1) 29:12 incorporating (1) 64:4 incorporation (1) 48:20 increase (16) 31:25;32:4;84:9; 124:17;133:18; 139:19;142:23;143:4, 10;146:7;171:4; 186:5,12;211:25; 212:9;221:3

increased (3) 84:16:124:7:232:10 increases (1) 107:24 increasing (4) 83:15:124:10; 184:20.25 increasingly (1) 129:24 incredible (5) 69:15;114:6; 146:15:248:2,20 incredibly (2) 220:13;221:23 incur (1) 189:4 independent (1) 168:9 India (4) 102:1;229:2,2; 252:16 Indian (1) 229:3 Indiana (2) 16:13:51:6 indicate (1) 12:16 indicates (1) 96:6 indication (1) 177:1 indicator (1) 242:19 individual (9) 12:7:31:23:42:6; 44:23;103:6;168:24; 175:2,24:218:2 individually (2) 173:9;253:16 Individuals (4) 12:5;44:20;186:18; 220:12 Inducement (1) 181:5 industrial (1) 160:9 industries (1) 104:4 industry (51) 31:16,22;32:6; 35:22;36:24;37:15, 20;46:23;51:23;52:4, 20;53:24;54:25; 67:11;84:17;98:11; 104:4;106:6;112:22; 113:16;125:17;129:3; 137:25;139:2;192:4; 202:21,24;203:2; 204:3,5,15,22;205:14, 17:206:4:207:14,14; 208:4;217:16,19,23; 220:20;229:11,12; 230:23,25;231:1;

237:12;239:12;255:3, 6 industry-accepted (1) 121:16 inert (9) 29:4,4,7;168:14,17, 19,19,24;173:9 inerts (1) 173:8 inflammation (1) 67:22 inflation (2) 63:10:129:22 influence (2) 52:22;224:4 influences (2) 223:14,19 inform (4) 48:5;112:19;132:1; 244:22 Information (31) 8:8:35:2.4:89:22: 116:6;117:1;120:1; 121:16:123:1:155:20: 158:15;166:4;168:12; 170:10,11,14;172:2, 16;175:11,21;176:2; 178:5,20;179:2; 180:13;202:6;214:12; 215:3;218:9;244:15; 256:19 informed (3) 109:16:155:19; 217:19 infrastructure (5) 105:11;146:21; 147:2;193:20;234:25 ingesting (1) 245:12 ingredient (2) 85:4;168:19 ingredients (13) 29:4,4,9;101:14,15; 103:1;149:12,23; 158:4;168:15,17,19, 25 inherently (4) 222:24;223:21; 224:7;231:16 initial (2) 173:11:207:22 initially (1) 54:24 Initiative (7) 71:11,13,25; 161:21;184:4;207:23; 214:16 initiatives (2) 83:20;84:19 injection (1) 32:14 innate (1) 120:17

innovation (3) 171:7:220:1:231:5 Innovations (4) 247:10.10.13.20 innovative (2) 219:17;233:20 inoculant (1) 177:1 inoculants (7) 171:5,7,14,18,19, 21;176:25 inoculant-type (1) 171:13 input (16) 31:19:111:19; 117:13,19;168:9; 169:24;170:17; 171:24;172:24;173:2; 186:20;187:19; 188:13;216:16;224:5; 256:1 inputs (13) 67:13;128:14; 169:25;173:5;178:23, 24;179:1,3;195:2,8; 197:6,10,24 insect (2) 188:19,25 insecticides (1) 189:6 insects (2) 47:24:188:19 insecure (1) 154:19 insecurity (2) 28:10;229:8 insensible (1) 130:1 inside (1) 137:3 insightful (1) 113:20 insisting (1) 158:7 inspect (1) 157:20 inspection (3) 115:17;134:23; 137:19 inspections (4) 114:19:130:16; 131:18.19 inspector (5) 84:18;113:3; 127:25;225:9,11 inspectors (11) 102:22;110:14; 111:24;112:21;132:2, 9;225:8;226:6,10,25; 227:9 inspirational (1) 167:15 instability (1)

- Vol. 2 April 25, 2024

55:23 instance (1) 43:9 instances (2) 154:13:222:13 instead (2) 82:5:172:19 Institute (4) 28:1,2;168:7; 233:12 institutional (3) 102:6,11,20 institutionalized (1) 145:24 institutions (1) 89:12 instruction (3) 4:19;112:20;225:13 **Instructions** (1) 124:22 insufficient (1) 248:11 insurance (8) 83:22;166:5,8,10, 16;197:15;198:7; 221:4 intake (1) 48:8 integration (2) 146:15,17 integrity (25) 19:10:28:22:30:9: 57:17;101:24;102:2, 7:103:23:107:25: 108:1,22:109:21; 122:10;125:18; 127:25;130:7,14; 135:2;141:7;165:25; 184:25;199:13; 220:21;247:15;249:6 intended (2) 36:22:168:11 intense (1) 107:24 intent (1) 234:17 intentionally (1) 242:18 intentionally-added (1) 242:17 inter (1) 163:4 interaction (3) 34:16;44:21;85:3 interest (6) 14:7;74:8,24; 102:11;208:8;224:13 interested (5) 73:7;74:20;112:19; 194:23:208:2 interesting (2) 34:19:93:13 Interestingly (1)

Burke Court Reporting & Transcription (973) 692-0660 (21) improvements - Interestingly

- Vol. 2 April 25, 2024

Spring 2024 Meeting		T	T	April 25, 2024
06.24	··· · · · · · · · · · · · · · · · (1)	24.6.40.19.21.57.19	216.2.210.9	4 12 0 19 10 10
96:24	introduction (1)	34:6;49:18,21;57:18;	216:3;219:8;	4:13;9:18;10:19;
interests (3)	51:2	59:12,16,17;88:22;	224:23;227:18,23,25,	11:13;18:25;23:2;
38:2;167:12;217:20	invented (1)	125:12;130:25;	25;230:11	25:3;26:10;55:12;
intermediaries (1)	93:19	144:20;156:22;	Jenny (1)	56:23;65:21;66:12,
212:9	inventory (1)	169:12;173:8;179:15;	162:3	14;70:11;75:5;80:1;
internal (1)	253:17	203:3;207:5;212:11;	jeopardized (1)	82:14;85:13;99:19;
89:4	invest (4)	225:18;229:8;233:14;	228:14	110:8;122:9;130:12;
internally (1)	28:14;71:10;	235:12;237:7;240:3;	Jerry (10)	146:12;156:6;183:14;
116:25	206:17;219:15	242:8;248:7;252:16	9:15,17;16:4;89:1,	187:11;198:3;214:5
international (4)	invested (4)	issued (1)	2;92:12;166:20;	Joseph (13)
53:11;85:19;	136:18;220:12;	43:21	167:4;222:4;238:16	57:1;63:19;66:16;
165:19;225:8	222:10,12	issues (35)	Jerry's (2)	95:15;135:22;140:11,
internationally (3)	investigate (2)	12:8;14:13;15:8;	224:13,15	11,17,19,21;142:17,
185:5;214:19;215:2	211:11;229:6	17:3;20:13;23:24;	Jersey (1)	19;143:23
interpretation (2)	investigated (1)	29:2;36:13,15;43:24;	132:7	journey (1)
129:23;155:12	204:9	51:19;53:20;55:18;	Jess (13)	63:25
interruptions (1)	investigation (1)	99:4;105:15;116:18;	95:23;96:2,4,5,7,9;	judicial (1)
148:22	212:11	118:9;119:4;123:5;	168:2;181:20,22;	102:8
intervention (1)	investigator (1)	125:16;134:15;	182:2,4;183:12,15	judiciously (1)
84:21	233:11	150:25;165:13;	Jo (1)	45:20
intestines (1)	investing (1)	169:14;195:10,11,12;	11:5	43.20 Judy (7)
	206:4			
151:2		198:14;202:21;	job (4)	70:12;75:10,12,12,
intimidate (1)	investment (5)	205:18;206:11;	51:15;76:22;	14,16;95:17
102:21	52:9;53:23;136:15;	208:13;232:23;	180:10;232:11	juices (1)
into (100)	207:22;219:12	247:19;249:6	jobs (1)	204:20
11:22;15:2,16;18:2,	investments (1)	Italy (1)	106:12	jump (4)
19;28:4;33:13;34:11;	104:16	65:8	jockeying (1)	46:11;99:22;
39:14,15,15;43:1;	investor (1)	item (4)	123:7	115:15;116:3
48:4;49:14;51:25;	223:10	43:5;99:22;169:1;	Jodarski (10)	jumped (1)
53:14,21;58:1;63:8;	invokes (1)	171:2	63:20;66:20,20,22,	13:7
65:11,14;69:13;	213:5	items (3)	24;67:3,5,5;69:19;	justify (2)
71:17;73:25;80:9,12,	involved (14)	30:22;42:11;199:25	70:10	207:21;213:3
				207.21,213.3
17;84:1;88:14;90:8,9;	22:14;33:7;53:7;	iterative (1)	Joe (21)	
17;84:1;88:14;90:8,9; 98:7;99:22;102:22;	22:14;33:7;53:7; 55:2,19;71:2;112:22;	iterative (1) 208:12	Joe (21) 26:24,24;27:1,2;	K
17;84:1;88:14;90:8,9; 98:7;99:22;102:22; 106:2;108:25;111:13;	22:14;33:7;53:7; 55:2,19;71:2;112:22; 113:6;157:21;207:13;	iterative (1) 208:12 ivermectin (1)	Joe (21) 26:24,24;27:1,2; 30:14,15;46:12,13;	K
17;84:1;88:14;90:8,9; 98:7;99:22;102:22; 106:2;108:25;111:13; 120:4;122:2;124:3,	22:14;33:7;53:7; 55:2,19;71:2;112:22; 113:6;157:21;207:13; 211:6;215:14;222:17;	iterative (1) 208:12	Joe (21) 26:24,24;27:1,2; 30:14,15;46:12,13; 50:16,16,18,19,23;	K Kahl (12)
17;84:1;88:14;90:8,9; 98:7;99:22;102:22; 106:2;108:25;111:13; 120:4;122:2;124:3, 14,15;126:9,11;132:6,	22:14;33:7;53:7; 55:2,19;71:2;112:22; 113:6;157:21;207:13; 211:6;215:14;222:17; 229:10	iterative (1) 208:12 ivermectin (1) 44:24	Joe (21) 26:24,24;27:1,2; 30:14,15;46:12,13; 50:16,16,18,19,23; 51:3;52:25;53:2;54:8;	K Kahl (12) 118:15;123:6,17;
17;84:1;88:14;90:8,9; 98:7;99:22;102:22; 106:2;108:25;111:13; 120:4;122:2;124:3, 14,15;126:9,11;132:6, 7;133:7;137:21;	22:14;33:7;53:7; 55:2,19;71:2;112:22; 113:6;157:21;207:13; 211:6;215:14;222:17; 229:10 involvement (1)	iterative (1) 208:12 ivermectin (1)	Joe (21) 26:24,24;27:1,2; 30:14,15;46:12,13; 50:16,16,18,19,23;	K Kahl (12)
17;84:1;88:14;90:8,9; 98:7;99:22;102:22; 106:2;108:25;111:13; 120:4;122:2;124:3, 14,15;126:9,11;132:6,	22:14;33:7;53:7; 55:2,19;71:2;112:22; 113:6;157:21;207:13; 211:6;215:14;222:17; 229:10	iterative (1) 208:12 ivermectin (1) 44:24	Joe (21) 26:24,24;27:1,2; 30:14,15;46:12,13; 50:16,16,18,19,23; 51:3;52:25;53:2;54:8;	K Kahl (12) 118:15;123:6,17;
17;84:1;88:14;90:8,9; 98:7;99:22;102:22; 106:2;108:25;111:13; 120:4;122:2;124:3, 14,15;126:9,11;132:6, 7;133:7;137:21; 141:9;147:5;148:18;	22:14;33:7;53:7; 55:2,19;71:2;112:22; 113:6;157:21;207:13; 211:6;215:14;222:17; 229:10 involvement (1) 238:20	iterative (1) 208:12 ivermectin (1) 44:24 J	Joe (21) 26:24,24;27:1,2; 30:14,15;46:12,13; 50:16,16,18,19,23; 51:3;52:25;53:2;54:8; 55:12;56:16,23;77:7 John (37)	K Kahl (12) 118:15;123:6,17; 127:19,23,23;130:19; 131:14;132:12;133:2;
17;84:1;88:14;90:8,9; 98:7;99:22;102:22; 106:2;108:25;111:13; 120:4;122:2;124:3, 14,15;126:9,11;132:6, 7;133:7;137:21; 141:9;147:5;148:18; 150:19;164:7;165:5;	22:14;33:7;53:7; 55:2,19;71:2;112:22; 113:6;157:21;207:13; 211:6;215:14;222:17; 229:10 involvement (1) 238:20 involving (1)	iterative (1) 208:12 ivermectin (1) 44:24 J Jacob (10)	Joe (21) 26:24,24;27:1,2; 30:14,15;46:12,13; 50:16,16,18,19,23; 51:3;52:25;53:2;54:8; 55:12;56:16,23;77:7 John (37) 12:20,20;13:18,19;	K Kahl (12) 118:15;123:6,17; 127:19,23,23;130:19; 131:14;132:12;133:2; 134:16;135:7
17;84:1;88:14;90:8,9; 98:7;99:22;102:22; 106:2;108:25;111:13; 120:4;122:2;124:3, 14,15;126:9,11;132:6, 7;133:7;137:21; 141:9;147:5;148:18; 150:19;164:7;165:5; 170:7;173:11;175:5;	22:14;33:7;53:7; 55:2,19;71:2;112:22; 113:6;157:21;207:13; 211:6;215:14;222:17; 229:10 involvement (1) 238:20 involving (1) 169:16	iterative (1) 208:12 ivermectin (1) 44:24 J Jacob (10) 202:14;208:19;	Joe (21) 26:24,24;27:1,2; 30:14,15;46:12,13; 50:16,16,18,19,23; 51:3;52:25;53:2;54:8; 55:12;56:16,23;77:7 John (37) 12:20,20;13:18,19; 14:3;26:14,16,20;	K Kahl (12) 118:15;123:6,17; 127:19,23,23;130:19; 131:14;132:12;133:2; 134:16;135:7 Kansas (2)
17;84:1;88:14;90:8,9; 98:7;99:22;102:22; 106:2;108:25;111:13; 120:4;122:2;124:3, 14,15;126:9,11;132:6, 7;133:7;137:21; 141:9;147:5;148:18; 150:19;164:7;165:5; 170:7;173:11;175:5; 176:1;178:5,25;	22:14;33:7;53:7; 55:2,19;71:2;112:22; 113:6;157:21;207:13; 211:6;215:14;222:17; 229:10 involvement (1) 238:20 involving (1) 169:16 IOA (1)	iterative (1) 208:12 ivermectin (1) 44:24 J Jacob (10) 202:14;208:19; 210:24;211:2,5;	Joe (21) 26:24,24;27:1,2; 30:14,15;46:12,13; 50:16,16,18,19,23; 51:3;52:25;53:2;54:8; 55:12;56:16,23;77:7 John (37) 12:20,20;13:18,19; 14:3;26:14,16,20; 95:13;98:5;101:6,6;	K Kahl (12) 118:15;123:6,17; 127:19,23,23;130:19; 131:14;132:12;133:2; 134:16;135:7 Kansas (2) 83:3;156:17
17;84:1;88:14;90:8,9; 98:7;99:22;102:22; 106:2;108:25;111:13; 120:4;122:2;124:3, 14,15;126:9,11;132:6, 7;133:7;137:21; 141:9;147:5;148:18; 150:19;164:7;165:5; 170:7;173:11;175:5; 176:1;178:5,25; 181:1;183:10;184:6;	22:14;33:7;53:7; 55:2,19;71:2;112:22; 113:6;157:21;207:13; 211:6;215:14;222:17; 229:10 involvement (1) 238:20 involving (1) 169:16 IOA (1) 128:9	iterative (1) 208:12 ivermectin (1) 44:24 J Jacob (10) 202:14;208:19; 210:24;211:2,5; 213:9,11;214:3,5;	Joe (21) 26:24,24;27:1,2; 30:14,15;46:12,13; 50:16,16,18,19,23; 51:3;52:25;53:2;54:8; 55:12;56:16,23;77:7 John (37) 12:20,20;13:18,19; 14:3;26:14,16,20; 95:13;98:5;101:6,6; 106:16,21,22,25;	K Kahl (12) 118:15;123:6,17; 127:19,23,23;130:19; 131:14;132:12;133:2; 134:16;135:7 Kansas (2) 83:3;156:17 Kapacinskas (13)
$\begin{array}{c} 17;84:1;88:14;90:8,9;\\98:7;99:22;102:22;\\106:2;108:25;111:13;\\120:4;122:2;124:3,\\14,15;126:9,11;132:6,\\7;133:7;137:21;\\141:9;147:5;148:18;\\150:19;164:7;165:5;\\170:7;173:11;175:5;\\176:1;178:5,25;\\181:1;183:10;184:6;\\186:19;189:9;190:11,\\ \end{array}$	22:14;33:7;53:7; 55:2,19;71:2;112:22; 113:6;157:21;207:13; 211:6;215:14;222:17; 229:10 involvement (1) 238:20 involving (1) 169:16 IOA (1) 128:9 iodine (3)	iterative (1) 208:12 ivermectin (1) 44:24 J Jacob (10) 202:14;208:19; 210:24;211:2,5; 213:9,11;214:3,5; 215:25	Joe (21) 26:24,24;27:1,2; 30:14,15;46:12,13; 50:16,16,18,19,23; 51:3;52:25;53:2;54:8; 55:12;56:16,23;77:7 John (37) 12:20,20;13:18,19; 14:3;26:14,16,20; 95:13;98:5;101:6,6; 106:16,21,22,25; 107:1,3;118:8,14,16,	K Kahl (12) 118:15;123:6,17; 127:19,23,23;130:19; 131:14;132:12;133:2; 134:16;135:7 Kansas (2) 83:3;156:17 Kapacinskas (13) 210:25;216:3;
$\begin{array}{c} 17;84:1;88:14;90:8,9;\\ 98:7;99:22;102:22;\\ 106:2;108:25;111:13;\\ 120:4;122:2;124:3,\\ 14,15;126:9,11;132:6,\\ 7;133:7;137:21;\\ 141:9;147:5;148:18;\\ 150:19;164:7;165:5;\\ 170:7;173:11;175:5;\\ 176:1;178:5,25;\\ 181:1;183:10;184:6;\\ 186:19;189:9;190:11,\\ 13;191:23;192:22,25;\\ \end{array}$	22:14;33:7;53:7; 55:2,19;71:2;112:22; 113:6;157:21;207:13; 211:6;215:14;222:17; 229:10 involvement (1) 238:20 involving (1) 169:16 IOA (1) 128:9 iodine (3) 30:23,24;68:6	iterative (1) 208:12 ivermectin (1) 44:24 J Jacob (10) 202:14;208:19; 210:24;211:2,5; 213:9,11;214:3,5; 215:25 January (1)	Joe (21) 26:24,24;27:1,2; 30:14,15;46:12,13; 50:16,16,18,19,23; 51:3;52:25;53:2;54:8; 55:12;56:16,23;77:7 John (37) 12:20,20;13:18,19; 14:3;26:14,16,20; 95:13;98:5;101:6,6; 106:16,21,22,25; 107:1,3;118:8,14,16, 19;119:9;121:9,13;	K Kahl (12) 118:15;123:6,17; 127:19,23,23;130:19; 131:14;132:12;133:2; 134:16;135:7 Kansas (2) 83:3;156:17 Kapacinskas (13) 210:25;216:3; 219:10,11;221:21;
$\begin{array}{c} 17;84:1;88:14;90:8,9;\\ 98:7;99:22;102:22;\\ 106:2;108:25;111:13;\\ 120:4;122:2;124:3,\\ 14,15;126:9,11;132:6,\\ 7;133:7;137:21;\\ 141:9;147:5;148:18;\\ 150:19;164:7;165:5;\\ 170:7;173:11;175:5;\\ 176:1;178:5,25;\\ 181:1;183:10;184:6;\\ 186:19;189:9;190:11,\\ 13;191:23;192:22,25;\\ 193:7;197:25;201:5,\\ \end{array}$	22:14;33:7;53:7; 55:2,19;71:2;112:22; 113:6;157:21;207:13; 211:6;215:14;222:17; 229:10 involvement (1) 238:20 involving (1) 169:16 IOA (1) 128:9 iodine (3) 30:23,24;68:6 IOIA (5)	iterative (1) 208:12 ivermectin (1) 44:24 J Jacob (10) 202:14;208:19; 210:24;211:2,5; 213:9,11;214:3,5; 215:25 January (1) 119:18	Joe (21) 26:24,24;27:1,2; 30:14,15;46:12,13; 50:16,16,18,19,23; 51:3;52:25;53:2;54:8; 55:12;56:16,23;77:7 John (37) 12:20,20;13:18,19; 14:3;26:14,16,20; 95:13;98:5;101:6,6; 106:16,21,22,25; 107:1,3;118:8,14,16, 19;119:9;121:9,13; 122:9;123:3;239:20;	K Kahl (12) 118:15;123:6,17; 127:19,23,23;130:19; 131:14;132:12;133:2; 134:16;135:7 Kansas (2) 83:3;156:17 Kapacinskas (13) 210:25;216:3; 219:10,11;221:21; 222:3,9;223:4,13,16;
17;84:1;88:14;90:8,9; 98:7;99:22;102:22; 106:2;108:25;111:13; 120:4;122:2;124:3, 14,15;126:9,11;132:6, 7;133:7;137:21; 141:9;147:5;148:18; 150:19;164:7;165:5; 170:7;173:11;175:5; 176:1;178:5,25; 181:1;183:10;184:6; 186:19;189:9;190:11, 13;191:23;192:22,25; 193:7;197:25;201:5, 13;202:4;206:7;	22:14;33:7;53:7; 55:2,19;71:2;112:22; 113:6;157:21;207:13; 211:6;215:14;222:17; 229:10 involvement (1) 238:20 involving (1) 169:16 IOA (1) 128:9 iodine (3) 30:23,24;68:6 IOIA (5) 225:8,13,22;226:4,	iterative (1) 208:12 ivermectin (1) 44:24 J Jacob (10) 202:14;208:19; 210:24;211:2,5; 213:9,11;214:3,5; 215:25 January (1) 119:18 Jared (7)	Joe (21) 26:24,24;27:1,2; 30:14,15;46:12,13; 50:16,16,18,19,23; 51:3;52:25;53:2;54:8; 55:12;56:16,23;77:7 John (37) 12:20,20;13:18,19; 14:3;26:14,16,20; 95:13;98:5;101:6,6; 106:16,21,22,25; 107:1,3;118:8,14,16, 19;119:9;121:9,13; 122:9;123:3;239:20; 246:24;247:5,7,9;	K Kahl (12) 118:15;123:6,17; 127:19,23,23;130:19; 131:14;132:12;133:2; 134:16;135:7 Kansas (2) 83:3;156:17 Kapacinskas (13) 210:25;216:3; 219:10,11;221:21; 222:3,9;223:4,13,16; 224:10,19,21
$\begin{array}{c} 17;84:1;88:14;90:8,9;\\98:7;99:22;102:22;\\106:2;108:25;111:13;\\120:4;122:2;124:3,\\14,15;126:9,11;132:6,\\7;133:7;137:21;\\141:9;147:5;148:18;\\150:19;164:7;165:5;\\170:7;173:11;175:5;\\176:1;178:5,25;\\181:1;183:10;184:6;\\186:19;189:9;190:11,\\13;191:23;192:22,25;\\193:7;197:25;201:5,\\13;202:4;206:7;\\208:7;209:23;210:10;\\\end{array}$	22:14;33:7;53:7; 55:2,19;71:2;112:22; 113:6;157:21;207:13; 211:6;215:14;222:17; 229:10 involvement (1) 238:20 involving (1) 169:16 IOA (1) 128:9 iodine (3) 30:23,24;68:6 IOIA (5) 225:8,13,22;226:4, 9	iterative (1) 208:12 ivermectin (1) 44:24 J Jacob (10) 202:14;208:19; 210:24;211:2,5; 213:9,11;214:3,5; 215:25 January (1) 119:18 Jared (7) 7:15,18,20;8:23;	Joe (21) 26:24,24;27:1,2; 30:14,15;46:12,13; 50:16,16,18,19,23; 51:3;52:25;53:2;54:8; 55:12;56:16,23;77:7 John (37) 12:20,20;13:18,19; 14:3;26:14,16,20; 95:13;98:5;101:6,6; 106:16,21,22,25; 107:1,3;118:8,14,16, 19;119:9;121:9,13; 122:9;123:3;239:20; 246:24;247:5,7,9; 249:10,13;251:3;	K Kahl (12) 118:15;123:6,17; 127:19,23,23;130:19; 131:14;132:12;133:2; 134:16;135:7 Kansas (2) 83:3;156:17 Kapacinskas (13) 210:25;216:3; 219:10,11;221:21; 222:3,9;223:4,13,16; 224:10,19,21 Kapustka (7)
17;84:1;88:14;90:8,9; 98:7;99:22;102:22; 106:2;108:25;111:13; 120:4;122:2;124:3, 14,15;126:9,11;132:6, 7;133:7;137:21; 141:9;147:5;148:18; 150:19;164:7;165:5; 170:7;173:11;175:5; 176:1;178:5,25; 181:1;183:10;184:6; 186:19;189:9;190:11, 13;191:23;192:22,25; 193:7;197:25;201:5, 13;202:4;206:7; 208:7;209:23;210:10; 211:15;214:6,22;	22:14;33:7;53:7; 55:2,19;71:2;112:22; 113:6;157:21;207:13; 211:6;215:14;222:17; 229:10 involvement (1) 238:20 involving (1) 169:16 IOA (1) 128:9 iodine (3) 30:23,24;68:6 IOIA (5) 225:8,13,22;226:4, 9 IOIA's (1)	iterative (1) 208:12 ivermectin (1) 44:24 J Jacob (10) 202:14;208:19; 210:24;211:2,5; 213:9,11;214:3,5; 215:25 January (1) 119:18 Jared (7) 7:15,18,20;8:23; 11:1,12;95:22	Joe (21) 26:24,24;27:1,2; 30:14,15;46:12,13; 50:16,16,18,19,23; 51:3;52:25;53:2;54:8; 55:12;56:16,23;77:7 John (37) 12:20,20;13:18,19; 14:3;26:14,16,20; 95:13;98:5;101:6,6; 106:16,21,22,25; 107:1,3;118:8,14,16, 19;119:9;121:9,13; 122:9;123:3;239:20; 246:24;247:5,7,9; 249:10,13;251:3; 253:6,23	K Kahl (12) 118:15;123:6,17; 127:19,23,23;130:19; 131:14;132:12;133:2; 134:16;135:7 Kansas (2) 83:3;156:17 Kapacinskas (13) 210:25;216:3; 219:10,11;221:21; 222:3,9;223:4,13,16; 224:10,19,21 Kapustka (7) 208:19;210:25;
$\begin{array}{c} 17;84:1;88:14;90:8,9;\\ 98:7;99:22;102:22;\\ 106:2;108:25;111:13;\\ 120:4;122:2;124:3,\\ 14,15;126:9,11;132:6,\\ 7;133:7;137:21;\\ 141:9;147:5;148:18;\\ 150:19;164:7;165:5;\\ 170:7;173:11;175:5;\\ 176:1;178:5,25;\\ 181:1;183:10;184:6;\\ 186:19;189:9;190:11,\\ 13;191:23;192:22,25;\\ 193:7;197:25;201:5,\\ 13;202:4;206:7;\\ 208:7;209:23;210:10;\\ 211:15;214:6,22;\\ 236:12,14;237:21;\\ \end{array}$	22:14;33:7;53:7; 55:2,19;71:2;112:22; 113:6;157:21;207:13; 211:6;215:14;222:17; 229:10 involvement (1) 238:20 involving (1) 169:16 IOA (1) 128:9 iodine (3) 30:23,24;68:6 IOIA (5) 225:8,13,22;226:4, 9 IOIA's (1) 226:8	iterative (1) 208:12 ivermectin (1) 44:24 J Jacob (10) 202:14;208:19; 210:24;211:2,5; 213:9,11;214:3,5; 215:25 January (1) 119:18 Jared (7) 7:15,18,20;8:23; 11:1,12;95:22 Javier (1)	Joe (21) 26:24,24;27:1,2; 30:14,15;46:12,13; 50:16,16,18,19,23; 51:3;52:25;53:2;54:8; 55:12;56:16,23;77:7 John (37) 12:20,20;13:18,19; 14:3;26:14,16,20; 95:13;98:5;101:6,6; 106:16,21,22,25; 107:1,3;118:8,14,16, 19;119:9;121:9,13; 122:9;123:3;239:20; 246:24;247:5,7,9; 249:10,13;251:3; 253:6,23 Johnson (25)	K Kahl (12) 118:15;123:6,17; 127:19,23,23;130:19; 131:14;132:12;133:2; 134:16;135:7 Kansas (2) 83:3;156:17 Kapacinskas (13) 210:25;216:3; 219:10,11;221:21; 222:3,9;223:4,13,16; 224:10,19,21 Kapustka (7) 208:19;210:25; 216:2,4,4;218:12;
17;84:1;88:14;90:8,9; 98:7;99:22;102:22; 106:2;108:25;111:13; 120:4;122:2;124:3, 14,15;126:9,11;132:6, 7;133:7;137:21; 141:9;147:5;148:18; 150:19;164:7;165:5; 170:7;173:11;175:5; 176:1;178:5,25; 181:1;183:10;184:6; 186:19;189:9;190:11, 13;191:23;192:22,25; 193:7;197:25;201:5, 13;202:4;206:7; 208:7;209:23;210:10; 211:15;214:6,22;	22:14;33:7;53:7; 55:2,19;71:2;112:22; 113:6;157:21;207:13; 211:6;215:14;222:17; 229:10 involvement (1) 238:20 involving (1) 169:16 IOA (1) 128:9 iodine (3) 30:23,24;68:6 IOIA (5) 225:8,13,22;226:4, 9 IOIA's (1) 226:8 Iowa (4)	iterative (1) 208:12 ivermectin (1) 44:24 J Jacob (10) 202:14;208:19; 210:24;211:2,5; 213:9,11;214:3,5; 215:25 January (1) 119:18 Jared (7) 7:15,18,20;8:23; 11:1,12;95:22	Joe (21) 26:24,24;27:1,2; 30:14,15;46:12,13; 50:16,16,18,19,23; 51:3;52:25;53:2;54:8; 55:12;56:16,23;77:7 John (37) 12:20,20;13:18,19; 14:3;26:14,16,20; 95:13;98:5;101:6,6; 106:16,21,22,25; 107:1,3;118:8,14,16, 19;119:9;121:9,13; 122:9;123:3;239:20; 246:24;247:5,7,9; 249:10,13;251:3; 253:6,23	K Kahl (12) 118:15;123:6,17; 127:19,23,23;130:19; 131:14;132:12;133:2; 134:16;135:7 Kansas (2) 83:3;156:17 Kapacinskas (13) 210:25;216:3; 219:10,11;221:21; 222:3,9;223:4,13,16; 224:10,19,21 Kapustka (7) 208:19;210:25;
$\begin{array}{c} 17;84:1;88:14;90:8,9;\\ 98:7;99:22;102:22;\\ 106:2;108:25;111:13;\\ 120:4;122:2;124:3,\\ 14,15;126:9,11;132:6,\\ 7;133:7;137:21;\\ 141:9;147:5;148:18;\\ 150:19;164:7;165:5;\\ 170:7;173:11;175:5;\\ 176:1;178:5,25;\\ 181:1;183:10;184:6;\\ 186:19;189:9;190:11,\\ 13;191:23;192:22,25;\\ 193:7;197:25;201:5,\\ 13;202:4;206:7;\\ 208:7;209:23;210:10;\\ 211:15;214:6,22;\\ 236:12,14;237:21;\\ \end{array}$	22:14;33:7;53:7; 55:2,19;71:2;112:22; 113:6;157:21;207:13; 211:6;215:14;222:17; 229:10 involvement (1) 238:20 involving (1) 169:16 IOA (1) 128:9 iodine (3) 30:23,24;68:6 IOIA (5) 225:8,13,22;226:4, 9 IOIA's (1) 226:8	iterative (1) 208:12 ivermectin (1) 44:24 J Jacob (10) 202:14;208:19; 210:24;211:2,5; 213:9,11;214:3,5; 215:25 January (1) 119:18 Jared (7) 7:15,18,20;8:23; 11:1,12;95:22 Javier (1)	Joe (21) 26:24,24;27:1,2; 30:14,15;46:12,13; 50:16,16,18,19,23; 51:3;52:25;53:2;54:8; 55:12;56:16,23;77:7 John (37) 12:20,20;13:18,19; 14:3;26:14,16,20; 95:13;98:5;101:6,6; 106:16,21,22,25; 107:1,3;118:8,14,16, 19;119:9;121:9,13; 122:9;123:3;239:20; 246:24;247:5,7,9; 249:10,13;251:3; 253:6,23 Johnson (25)	K Kahl (12) 118:15;123:6,17; 127:19,23,23;130:19; 131:14;132:12;133:2; 134:16;135:7 Kansas (2) 83:3;156:17 Kapacinskas (13) 210:25;216:3; 219:10,11;221:21; 222:3,9;223:4,13,16; 224:10,19,21 Kapustka (7) 208:19;210:25; 216:2,4,4;218:12;
$\begin{array}{c} 17;84:1;88:14;90:8,9;\\ 98:7;99:22;102:22;\\ 106:2;108:25;111:13;\\ 120:4;122:2;124:3,\\ 14,15;126:9,11;132:6,\\ 7;133:7;137:21;\\ 141:9;147:5;148:18;\\ 150:19;164:7;165:5;\\ 170:7;173:11;175:5;\\ 176:1;178:5,25;\\ 181:1;183:10;184:6;\\ 186:19;189:9;190:11,\\ 13;191:23;192:22,25;\\ 193:7;197:25;201:5,\\ 13;202:4;206:7;\\ 208:7;209:23;210:10;\\ 211:15;214:6,22;\\ 236:12,14;237:21;\\ 238:2;240:3,19;\\ \end{array}$	22:14;33:7;53:7; 55:2,19;71:2;112:22; 113:6;157:21;207:13; 211:6;215:14;222:17; 229:10 involvement (1) 238:20 involving (1) 169:16 IOA (1) 128:9 iodine (3) 30:23,24;68:6 IOIA (5) 225:8,13,22;226:4, 9 IOIA's (1) 226:8 Iowa (4)	iterative (1) 208:12 ivermectin (1) 44:24 J Jacob (10) 202:14;208:19; 210:24;211:2,5; 213:9,11;214:3,5; 215:25 January (1) 119:18 Jared (7) 7:15,18,20;8:23; 11:1,12;95:22 Javier (1) 10:24	Joe (21) 26:24,24;27:1,2; 30:14,15;46:12,13; 50:16,16,18,19,23; 51:3;52:25;53:2;54:8; 55:12;56:16,23;77:7 John (37) 12:20,20;13:18,19; 14:3;26:14,16,20; 95:13;98:5;101:6,6; 106:16,21,22,25; 107:1,3;118:8,14,16, 19;119:9;121:9,13; 122:9;123:3;239:20; 246:24;247:5,7,9; 249:10,13;251:3; 253:6,23 Johnson (25) 10:1,2;16:18;18:17;	K Kahl (12) 118:15;123:6,17; 127:19,23,23;130:19; 131:14;132:12;133:2; 134:16;135:7 Kansas (2) 83:3;156:17 Kapacinskas (13) 210:25;216:3; 219:10,11;221:21; 222:3,9;223:4,13,16; 224:10,19,21 Kapustka (7) 208:19;210:25; 216:2,4,4;218:12; 219:2 Karlin (16)
$\begin{array}{c} 17;84:1;88:14;90:8,9;\\ 98:7;99:22;102:22;\\ 106:2;108:25;111:13;\\ 120:4;122:2;124:3,\\ 14,15;126:9,11;132:6,\\ 7;133:7;137:21;\\ 141:9;147:5;148:18;\\ 150:19;164:7;165:5;\\ 170:7;173:11;175:5;\\ 176:1;178:5,25;\\ 181:1;183:10;184:6;\\ 186:19;189:9;190:11,\\ 13;191:23;192:22,25;\\ 193:7;197:25;201:5,\\ 13;202:4;206:7;\\ 208:7;209:23;210:10;\\ 211:15;214:6,22;\\ 236:12,14;237:21;\\ 238:2;240:3,19;\\ 241:1;244:10,25;\\ 245:9;246:2,2,5;\\ \end{array}$	22:14;33:7;53:7; 55:2,19;71:2;112:22; 113:6;157:21;207:13; 211:6;215:14;222:17; 229:10 involvement (1) 238:20 involving (1) 169:16 IOA (1) 128:9 iodine (3) 30:23,24;68:6 IOIA (5) 225:8,13,22;226:4, 9 IOIA's (1) 226:8 Iowa (4) 76:2;154:7;216:8, 10	iterative (1) 208:12 ivermectin (1) 44:24 J Jacob (10) 202:14;208:19; 210:24;211:2,5; 213:9,11;214:3,5; 215:25 January (1) 119:18 Jared (7) 7:15,18,20;8:23; 11:1,12;95:22 Javier (1) 10:24 Javier's (1) 10:24	Joe (21) 26:24,24;27:1,2; 30:14,15;46:12,13; 50:16,16,18,19,23; 51:3;52:25;53:2;54:8; 55:12;56:16,23;77:7 John (37) 12:20,20;13:18,19; 14:3;26:14,16,20; 95:13;98:5;101:6,6; 106:16,21,22,25; 107:1,3;118:8,14,16, 19;119:9;121:9,13; 122:9;123:3;239:20; 246:24;247:5,7,9; 249:10,13;251:3; 253:6,23 Johnson (25) 10:1,2;16:18;18:17; 24:2,22;54:4,7;55:4; 161:14;162:12;	K Kahl (12) 118:15;123:6,17; 127:19,23,23;130:19; 131:14;132:12;133:2; 134:16;135:7 Kansas (2) 83:3;156:17 Kapacinskas (13) 210:25;216:3; 219:10,11;221:21; 222:3,9;223:4,13,16; 224:10,19,21 Kapustka (7) 208:19;210:25; 216:2,4,4;218:12; 219:2 Karlin (16) 101:6;107:13,16,
$\begin{array}{c} 17;84:1;88:14;90:8,9;\\ 98:7;99:22;102:22;\\ 106:2;108:25;111:13;\\ 120:4;122:2;124:3,\\ 14,15;126:9,11;132:6,\\ 7;133:7;137:21;\\ 141:9;147:5;148:18;\\ 150:19;164:7;165:5;\\ 170:7;173:11;175:5;\\ 176:1;178:5,25;\\ 181:1;183:10;184:6;\\ 186:19;189:9;190:11,\\ 13;191:23;192:22,25;\\ 193:7;197:25;201:5,\\ 13;202:4;206:7;\\ 208:7;209:23;210:10;\\ 211:15;214:6,22;\\ 236:12,14;237:21;\\ 238:2;240:3,19;\\ 241:1;244:10,25;\\ 245:9;246:2,2,5;\\ 249:7;250:12,16;\\ \end{array}$	22:14;33:7;53:7; 55:2,19;71:2;112:22; 113:6;157:21;207:13; 211:6;215:14;222:17; 229:10 involvement (1) 238:20 involving (1) 169:16 IOA (1) 128:9 iodine (3) 30:23,24;68:6 IOIA (5) 225:8,13,22;226:4, 9 IOIA's (1) 226:8 Iowa (4) 76:2;154:7;216:8, 10 IREP (1)	iterative (1) 208:12 ivermectin (1) 44:24 J Jacob (10) 202:14;208:19; 210:24;211:2,5; 213:9,11;214:3,5; 215:25 January (1) 119:18 Jared (7) 7:15,18,20;8:23; 11:1,12;95:22 Javier (1) 10:24 Javier's (1) 10:24 Jaydee (8)	Joe (21) 26:24,24;27:1,2; 30:14,15;46:12,13; 50:16,16,18,19,23; 51:3;52:25;53:2;54:8; 55:12;56:16,23;77:7 John (37) 12:20,20;13:18,19; 14:3;26:14,16,20; 95:13;98:5;101:6,6; 106:16,21,22,25; 107:1,3;118:8,14,16, 19;119:9;121:9,13; 122:9;123:3;239:20; 246:24;247:5,7,9; 249:10,13;251:3; 253:6,23 Johnson (25) 10:1,2;16:18;18:17; 24:2,22;54:4,7;55:4; 161:14;162:12; 174:11;175:16;	K Kahl (12) 118:15;123:6,17; 127:19,23,23;130:19; 131:14;132:12;133:2; 134:16;135:7 Kansas (2) 83:3;156:17 Kapacinskas (13) 210:25;216:3; 219:10,11;221:21; 222:3,9;223:4,13,16; 224:10,19,21 Kapustka (7) 208:19;210:25; 216:2,4,4;218:12; 219:2 Karlin (16) 101:6;107:13,16, 16;111:2;112:24;
$\begin{array}{c} 17;84:1;88:14;90:8,9;\\ 98:7;99:22;102:22;\\ 106:2;108:25;111:13;\\ 120:4;122:2;124:3,\\ 14,15;126:9,11;132:6,\\ 7;133:7;137:21;\\ 141:9;147:5;148:18;\\ 150:19;164:7;165:5;\\ 170:7;173:11;175:5;\\ 176:1;178:5,25;\\ 181:1;183:10;184:6;\\ 186:19;189:9;190:11,\\ 13;191:23;192:22,25;\\ 193:7;197:25;201:5,\\ 13;202:4;206:7;\\ 208:7;209:23;210:10;\\ 211:15;214:6,22;\\ 236:12,14;237:21;\\ 238:2;240:3,19;\\ 241:1;244:10,25;\\ 245:9;246:2,2,5;\\ 249:7;250:12,16;\\ 253:18;254:16\end{array}$	22:14;33:7;53:7; 55:2,19;71:2;112:22; 113:6;157:21;207:13; 211:6;215:14;222:17; 229:10 involvement (1) 238:20 involving (1) 169:16 IOA (1) 128:9 iodine (3) 30:23,24;68:6 IOIA (5) 225:8,13,22;226:4, 9 IOIA's (1) 226:8 Iowa (4) 76:2;154:7;216:8, 10 IREP (1) 169:24	iterative (1) 208:12 ivermectin (1) 44:24 J Jacob (10) 202:14;208:19; 210:24;211:2,5; 213:9,11;214:3,5; 215:25 January (1) 119:18 Jared (7) 7:15,18,20;8:23; 11:1,12;95:22 Javier (1) 10:24 Javier's (1) 10:24 Jaydee (8) 233:7;235:16,18,	Joe (21) 26:24,24;27:1,2; 30:14,15;46:12,13; 50:16,16,18,19,23; 51:3;52:25;53:2;54:8; 55:12;56:16,23;77:7 John (37) 12:20,20;13:18,19; 14:3;26:14,16,20; 95:13;98:5;101:6,6; 106:16,21,22,25; 107:1,3;118:8,14,16, 19;119:9;121:9,13; 122:9;123:3;239:20; 246:24;247:5,7,9; 249:10,13;251:3; 253:6,23 Johnson (25) 10:1,2;16:18;18:17; 24:2,22;54:4,7;55:4; 161:14;162:12; 174:11;175:16; 176:13,18;177:8,14;	K Kahl (12) 118:15;123:6,17; 127:19,23,23;130:19; 131:14;132:12;133:2; 134:16;135:7 Kansas (2) 83:3;156:17 Kapacinskas (13) 210:25;216:3; 219:10,11;221:21; 222:3,9;223:4,13,16; 224:10,19,21 Kapustka (7) 208:19;210:25; 216:2,4,4;218:12; 219:2 Karlin (16) 101:6;107:13,16, 16;111:2;112:24; 113:14,18;114:3,13;
17;84:1;88:14;90:8,9; 98:7;99:22;102:22; 106:2;108:25;111:13; 120:4;122:2;124:3, 14,15;126:9,11;132:6, 7;133:7;137:21; 141:9;147:5;148:18; 150:19;164:7;165:5; 170:7;173:11;175:5; 176:1;178:5,25; 181:1;183:10;184:6; 186:19;189:9;190:11, 13;191:23;192:22,25; 193:7;197:25;201:5, 13;202:4;206:7; 208:7;209:23;210:10; 211:15;214:6,22; 236:12,14;237:21; 238:2;240:3,19; 241:1;244:10,25; 245:9;246:2,2,5; 249:7;250:12,16; 253:18;254:16 intrigued (1)	22:14;33:7;53:7; 55:2,19;71:2;112:22; 113:6;157:21;207:13; 211:6;215:14;222:17; 229:10 involvement (1) 238:20 involving (1) 169:16 IOA (1) 128:9 iodine (3) 30:23,24;68:6 IOIA (5) 225:8,13,22;226:4, 9 IOIA's (1) 226:8 Iowa (4) 76:2;154:7;216:8, 10 IREP (1) 169:24 irregularities (1)	iterative (1) 208:12 ivermectin (1) 44:24 J Jacob (10) 202:14;208:19; 210:24;211:2,5; 213:9,11;214:3,5; 215:25 January (1) 119:18 Jared (7) 7:15,18,20;8:23; 11:1,12;95:22 Javier (1) 10:24 Javier's (1) 10:24 Jaydee (8) 233:7;235:16,18, 20;237:3,6;238:18;	Joe (21) 26:24,24;27:1,2; 30:14,15;46:12,13; 50:16,16,18,19,23; 51:3;52:25;53:2;54:8; 55:12;56:16,23;77:7 John (37) 12:20,20;13:18,19; 14:3;26:14,16,20; 95:13;98:5;101:6,6; 106:16,21,22,25; 107:1,3;118:8,14,16, 19;119:9;121:9,13; 122:9;123:3;239:20; 246:24;247:5,7,9; 249:10,13;251:3; 253:6,23 Johnson (25) 10:1,2;16:18;18:17; 24:2,22;54:4,7;55:4; 161:14;162:12; 174:11;175:16; 176:13,18;177:8,14; 196:22;198:1;205:7,	K Kahl (12) 118:15;123:6,17; 127:19,23,23;130:19; 131:14;132:12;133:2; 134:16;135:7 Kansas (2) 83:3;156:17 Kapacinskas (13) 210:25;216:3; 219:10,11;221:21; 222:3,9;223:4,13,16; 224:10,19,21 Kapustka (7) 208:19;210:25; 216:2,4,4;218:12; 219:2 Karlin (16) 101:6;107:13,16, 16;111:2;112:24; 113:14,18;114:3,13; 115:6,14;116:2;
17;84:1;88:14;90:8,9; 98:7;99:22;102:22; 106:2;108:25;111:13; 120:4;122:2;124:3, 14,15;126:9,11;132:6, 7;133:7;137:21; 141:9;147:5;148:18; 150:19;164:7;165:5; 170:7;173:11;175:5; 176:1;178:5,25; 181:1;183:10;184:6; 186:19;189:9;190:11, 13;191:23;192:22,25; 193:7;197:25;201:5, 13;202:4;206:7; 208:7;209:23;210:10; 211:15;214:6,22; 236:12,14;237:21; 238:2;240:3,19; 241:1;244:10,25; 245:9;246:2,2,5; 249:7;250:12,16; 253:18;254:16 intrigued (1) 72:14	22:14;33:7;53:7; 55:2,19;71:2;112:22; 113:6;157:21;207:13; 211:6;215:14;222:17; 229:10 involvement (1) 238:20 involving (1) 169:16 IOA (1) 128:9 iodine (3) 30:23,24;68:6 IOIA (5) 225:8,13,22;226:4, 9 IOIA's (1) 226:8 Iowa (4) 76:2;154:7;216:8, 10 IREP (1) 169:24 irregularities (1) 84:15	iterative (1) 208:12 ivermectin (1) 44:24 J Jacob (10) 202:14;208:19; 210:24;211:2,5; 213:9,11;214:3,5; 215:25 January (1) 119:18 Jared (7) 7:15,18,20;8:23; 11:1,12;95:22 Javier (1) 10:24 Javier's (1) 10:24 Javiee (8) 233:7;235:16,18, 20;237:3,6;238:18; 239:18	Joe (21) 26:24,24;27:1,2; 30:14,15;46:12,13; 50:16,16,18,19,23; 51:3;52:25;53:2;54:8; 55:12;56:16,23;77:7 John (37) 12:20,20;13:18,19; 14:3;26:14,16,20; 95:13;98:5;101:6,6; 106:16,21,22,25; 107:1,3;118:8,14,16, 19;119:9;121:9,13; 122:9;123:3;239:20; 246:24;247:5,7,9; 249:10,13;251:3; 253:6,23 Johnson (25) 10:1,2;16:18;18:17; 24:2,22;54:4,7;55:4; 161:14;162:12; 174:11;175:16; 176:13,18;177:8,14; 196:22;198:1;205:7, 20;242:6,22;244:9,14	K Kahl (12) 118:15;123:6,17; 127:19,23,23;130:19; 131:14;132:12;133:2; 134:16;135:7 Kansas (2) 83:3;156:17 Kapacinskas (13) 210:25;216:3; 219:10,11;221:21; 222:3,9;223:4,13,16; 224:10,19,21 Kapustka (7) 208:19;210:25; 216:2,4,4;218:12; 219:2 Karlin (16) 101:6;107:13,16, 16;111:2;112:24; 113:14,18;114:3,13; 115:6,14;116:2; 117:2;118:3,6
17;84:1;88:14;90:8,9; 98:7;99:22;102:22; 106:2;108:25;111:13; 120:4;122:2;124:3, 14,15;126:9,11;132:6, 7;133:7;137:21; 141:9;147:5;148:18; 150:19;164:7;165:5; 170:7;173:11;175:5; 176:1;178:5,25; 181:1;183:10;184:6; 186:19;189:9;190:11, 13;191:23;192:22,25; 193:7;197:25;201:5, 13;202:4;206:7; 208:7;209:23;210:10; 211:15;214:6,22; 236:12,14;237:21; 238:2;240:3,19; 241:1;244:10,25; 245:9;246:2,2,5; 249:7;250:12,16; 253:18;254:16 intrigued (1) 72:14 introduce (1)	22:14;33:7;53:7; 55:2,19;71:2;112:22; 113:6;157:21;207:13; 211:6;215:14;222:17; 229:10 involvement (1) 238:20 involving (1) 169:16 IOA (1) 128:9 iodine (3) 30:23,24;68:6 IOIA (5) 225:8,13,22;226:4, 9 IOIA's (1) 226:8 Iowa (4) 76:2;154:7;216:8, 10 IREP (1) 169:24 irregularities (1) 84:15 irrevocable (1)	iterative (1) 208:12 ivermectin (1) 44:24 J Jacob (10) 202:14;208:19; 210:24;211:2,5; 213:9,11;214:3,5; 215:25 January (1) 119:18 Jared (7) 7:15,18,20;8:23; 11:1,12;95:22 Javier (1) 10:24 Javier's (1) 10:24 Jaydee (8) 233:7;235:16,18, 20;237:3,6;238:18; 239:18 Jeez (1)	Joe (21) 26:24,24;27:1,2; 30:14,15;46:12,13; 50:16,16,18,19,23; 51:3;52:25;53:2;54:8; 55:12;56:16,23;77:7 John (37) 12:20,20;13:18,19; 14:3;26:14,16,20; 95:13;98:5;101:6,6; 106:16,21,22,25; 107:1,3;118:8,14,16, 19;119:9;121:9,13; 122:9;123:3;239:20; 246:24;247:5,7,9; 249:10,13;251:3; 253:6,23 Johnson (25) 10:1,2;16:18;18:17; 24:2,22;54:4,7;55:4; 161:14;162:12; 174:11;175:16; 176:13,18;177:8,14; 196:22;198:1;205:7, 20;242:6,22;244:9,14 join (4)	K Kahl (12) 118:15;123:6,17; 127:19,23,23;130:19; 131:14;132:12;133:2; 134:16;135:7 Kansas (2) 83:3;156:17 Kapacinskas (13) 210:25;216:3; 219:10,11;221:21; 222:3,9;223:4,13,16; 224:10,19,21 Kapustka (7) 208:19;210:25; 216:2,4,4;218:12; 219:2 Karlin (16) 101:6;107:13,16, 16;111:2;112:24; 113:14,18;114:3,13; 115:6,14;116:2; 117:2;118:3,6 Kate (7)
$\begin{array}{l} 17;84:1;88:14;90:8,9;\\98:7;99:22;102:22;\\106:2;108:25;111:13;\\120:4;122:2;124:3,\\14,15;126:9,11;132:6,\\7;133:7;137:21;\\141:9;147:5;148:18;\\150:19;164:7;165:5;\\170:7;173:11;175:5;\\176:1;178:5,25;\\181:1;183:10;184:6;\\186:19;189:9;190:11,\\13;191:23;192:22,25;\\193:7;197:25;201:5,\\13;202:4;206:7;\\208:7;209:23;210:10;\\211:15;214:6,22;\\236:12,14;237:21;\\238:2;240:3,19;\\241:1;244:10,25;\\245:9;246:2,2,5;\\249:7;250:12,16;\\253:18;254:16\\\textbf{intrigued (1)}\\72:14\\\textbf{introduce (1)}\\103:4\end{array}$	22:14;33:7;53:7; 55:2,19;71:2;112:22; 113:6;157:21;207:13; 211:6;215:14;222:17; 229:10 involvement (1) 238:20 involving (1) 169:16 IOA (1) 128:9 iodine (3) 30:23,24;68:6 IOIA (5) 225:8,13,22;226:4, 9 IOIA's (1) 226:8 Iowa (4) 76:2;154:7;216:8, 10 IREP (1) 169:24 irregularities (1) 84:15 irrevocable (1) 199:12	iterative (1) 208:12 ivermectin (1) 44:24 J Jacob (10) 202:14;208:19; 210:24;211:2,5; 213:9,11;214:3,5; 215:25 January (1) 119:18 Jared (7) 7:15,18,20;8:23; 11:1,12;95:22 Javier (1) 10:24 Javier's (1) 10:24 Jaydee (8) 233:7;235:16,18, 20;237:3,6;238:18; 239:18 Jeez (1) 166:9	Joe (21) 26:24,24;27:1,2; 30:14,15;46:12,13; 50:16,16,18,19,23; 51:3;52:25;53:2;54:8; 55:12;56:16,23;77:7 John (37) 12:20,20;13:18,19; 14:3;26:14,16,20; 95:13;98:5;101:6,6; 106:16,21,22,25; 107:1,3;118:8,14,16, 19;119:9;121:9,13; 122:9;123:3;239:20; 246:24;247:5,7,9; 249:10,13;251:3; 253:6,23 Johnson (25) 10:1,2;16:18;18:17; 24:2,22;54:4,7;55:4; 161:14;162:12; 174:11;175:16; 176:13,18;177:8,14; 196:22;198:1;205:7, 20;242:6,22;244:9,14 join (4) 12:22;13:12;61:6;	K Kahl (12) 118:15;123:6,17; 127:19,23,23;130:19; 131:14;132:12;133:2; 134:16;135:7 Kansas (2) 83:3;156:17 Kapacinskas (13) 210:25;216:3; 219:10,11;221:21; 222:3,9;223:4,13,16; 224:10,19,21 Kapustka (7) 208:19;210:25; 216:2,4,4;218:12; 219:2 Karlin (16) 101:6;107:13,16, 16;11:2;112:24; 113:14,18;114:3,13; 115:6,14;116:2; 117:2;118:3,6 Kate (7) 219:8;225:1,3,7;
17;84:1;88:14;90:8,9; 98:7;99:22;102:22; 106:2;108:25;111:13; 120:4;122:2;124:3, 14,15;126:9,11;132:6, 7;133:7;137:21; 141:9;147:5;148:18; 150:19;164:7;165:5; 170:7;173:11;175:5; 176:1;178:5,25; 181:1;183:10;184:6; 186:19;189:9;190:11, 13;191:23;192:22,25; 193:7;197:25;201:5, 13;202:4;206:7; 208:7;209:23;210:10; 211:15;214:6,22; 236:12,14;237:21; 238:2;240:3,19; 241:1;244:10,25; 245:9;246:2,2,5; 249:7;250:12,16; 253:18;254:16 intrigued (1) 72:14 introduce (1) 103:4 introduced (1)	22:14;33:7;53:7; 55:2,19;71:2;112:22; 113:6;157:21;207:13; 211:6;215:14;222:17; 229:10 involvement (1) 238:20 involving (1) 169:16 IOA (1) 128:9 iodine (3) 30:23,24;68:6 IOIA (5) 225:8,13,22;226:4, 9 IOIA's (1) 226:8 Iowa (4) 76:2;154:7;216:8, 10 IREP (1) 169:24 irregularities (1) 84:15 irrevocable (1) 199:12 is/was (1)	iterative (1) 208:12 ivermectin (1) 44:24 J Jacob (10) 202:14;208:19; 210:24;211:2,5; 213:9,11;214:3,5; 215:25 January (1) 119:18 Jared (7) 7:15,18,20;8:23; 11:1,12;95:22 Javier (1) 10:24 Javier's (1) 10:24 Jaydee (8) 233:7;235:16,18, 20;237:3,6;238:18; 239:18 Jeez (1) 166:9 Jeffery (5)	Joe (21) 26:24,24;27:1,2; 30:14,15;46:12,13; 50:16,16,18,19,23; 51:3;52:25;53:2;54:8; 55:12;56:16,23;77:7 John (37) 12:20,20;13:18,19; 14:3;26:14,16,20; 95:13;98:5;101:6,6; 106:16,21,22,25; 107:1,3;118:8,14,16, 19;119:9;121:9,13; 122:9;123:3;239:20; 246:24;247:5,7,9; 249:10,13;251:3; 253:6,23 Johnson (25) 10:1,2;16:18;18:17; 24:2,22;54:4,7;55:4; 161:14;162:12; 174:11;175:16; 176:13,18;177:8,14; 196:22;198:1;205:7, 20;242:6,22;244:9,14 join (4) 12:22;13:12;61:6; 70:21	K Kahl (12) 118:15;123:6,17; 127:19,23,23;130:19; 131:14;132:12;133:2; 134:16;135:7 Kansas (2) 83:3;156:17 Kapacinskas (13) 210:25;216:3; 219:10,11;221:21; 222:3,9;223:4,13,16; 224:10,19,21 Kapustka (7) 208:19;210:25; 216:2,4,4;218:12; 219:2 Karlin (16) 101:6;107:13,16, 16;11:2;112:24; 113:14,18;114:3,13; 115:6,14;116:2; 117:2;118:3,6 Kate (7) 219:8;225:1,3,7; 227:4,5,15
$\begin{array}{l} 17;84:1;88:14;90:8,9;\\98:7;99:22;102:22;\\106:2;108:25;111:13;\\120:4;122:2;124:3,\\14,15;126:9,11;132:6,\\7;133:7;137:21;\\141:9;147:5;148:18;\\150:19;164:7;165:5;\\170:7;173:11;175:5;\\176:1;178:5,25;\\181:1;183:10;184:6;\\186:19;189:9;190:11,\\13;191:23;192:22,25;\\193:7;197:25;201:5,\\13;202:4;206:7;\\208:7;209:23;210:10;\\211:15;214:6,22;\\236:12,14;237:21;\\238:2;240:3,19;\\241:1;244:10,25;\\245:9;246:2,2,5;\\249:7;250:12,16;\\253:18;254:16\\\textbf{intrigued (1)}\\72:14\\\textbf{introduce (1)}\\103:4\\\textbf{introduced (1)}\\231:16\\ \end{array}$	22:14;33:7;53:7; 55:2,19;71:2;112:22; 113:6;157:21;207:13; 211:6;215:14;222:17; 229:10 involvement (1) 238:20 involving (1) 169:16 IOA (1) 128:9 iodine (3) 30:23,24;68:6 IOIA (5) 225:8,13,22;226:4, 9 IOIA's (1) 226:8 Iowa (4) 76:2;154:7;216:8, 10 IREP (1) 169:24 irregularities (1) 84:15 irrevocable (1) 199:12 is/was (1) 102:15	iterative (1) 208:12 ivermectin (1) 44:24 J Jacob (10) 202:14;208:19; 210:24;211:2,5; 213:9,11;214:3,5; 215:25 January (1) 119:18 Jared (7) 7:15,18,20;8:23; 11:1,12;95:22 Javier (1) 10:24 Javier's (1) 10:24 Jaydee (8) 233:7;235:16,18, 20;237:3,6;238:18; 239:18 Jeez (1) 166:9 Jeffery (5) 9:23,24;20:20;	Joe (21) 26:24,24;27:1,2; 30:14,15;46:12,13; 50:16,16,18,19,23; 51:3;52:25;53:2;54:8; 55:12;56:16,23;77:7 John (37) 12:20,20;13:18,19; 14:3;26:14,16,20; 95:13;98:5;101:6,6; 106:16,21,22,25; 107:1,3;118:8,14,16, 19;119:9;121:9,13; 122:9;123:3;239:20; 246:24;247:5,7,9; 249:10,13;251:3; 253:6,23 Johnson (25) 10:1,2;16:18;18:17; 24:2,22;54:4,7;55:4; 161:14;162:12; 174:11;175:16; 176:13,18;177:8,14; 196:22;198:1;205:7, 20;242:6,22;244:9,14 join (4) 12:22;13:12;61:6; 70:21 joined (2)	K Kahl (12) 118:15;123:6,17; 127:19,23,23;130:19; 131:14;132:12;133:2; 134:16;135:7 Kansas (2) 83:3;156:17 Kapacinskas (13) 210:25;216:3; 219:10,11;221:21; 222:3,9;223:4,13,16; 224:10,19,21 Kapustka (7) 208:19;210:25; 216:2,4,4;218:12; 219:2 Karlin (16) 101:6;107:13,16, 16;11:2;112:24; 113:14,18;114:3,13; 115:6,14;116:2; 117:2;118:3,6 Kate (7) 219:8;225:1,3,7; 227:4,5,15 keep (26)
17;84:1;88:14;90:8,9; 98:7;99:22;102:22; 106:2;108:25;111:13; 120:4;122:2;124:3, 14,15;126:9,11;132:6, 7;133:7;137:21; 141:9;147:5;148:18; 150:19;164:7;165:5; 170:7;173:11;175:5; 176:1;178:5,25; 181:1;183:10;184:6; 186:19;189:9;190:11, 13;191:23;192:22,25; 193:7;197:25;201:5, 13;202:4;206:7; 208:7;209:23;210:10; 211:15;214:6,22; 236:12,14;237:21; 238:2;240:3,19; 241:1;244:10,25; 245:9;246:2,2,5; 249:7;250:12,16; 253:18;254:16 intrigued (1) 72:14 introduced (1) 231:16 introducing (2)	22:14;33:7;53:7; 55:2,19;71:2;112:22; 113:6;157:21;207:13; 211:6;215:14;222:17; 229:10 involvement (1) 238:20 involving (1) 169:16 IOA (1) 128:9 iodine (3) 30:23,24;68:6 IOIA (5) 225:8,13,22;226:4, 9 IOIA's (1) 226:8 Iowa (4) 76:2;154:7;216:8, 10 IREP (1) 169:24 irregularities (1) 84:15 irrevocable (1) 199:12 is/was (1) 102:15 issue (30)	iterative (1) 208:12 ivermectin (1) 44:24 J Jacob (10) 202:14;208:19; 210:24;211:2,5; 213:9,11;214:3,5; 215:25 January (1) 119:18 Jared (7) 7:15,18,20;8:23; 11:1,12;95:22 Javier (1) 10:24 Javier's (1) 10:24 Jaydee (8) 233:7;235:16,18, 20;237:3,6;238:18; 239:18 Jeez (1) 166:9 Jeffery (5) 9:23,24;20:20; 116:12;117:24	Joe (21) 26:24,24;27:1,2; 30:14,15;46:12,13; 50:16,16,18,19,23; 51:3;52:25;53:2;54:8; 55:12;56:16,23;77:7 John (37) 12:20,20;13:18,19; 14:3;26:14,16,20; 95:13;98:5;101:6,6; 106:16,21,22,25; 107:1,3;118:8,14,16, 19;119:9;121:9,13; 122:9;123:3;239:20; 246:24;247:5,7,9; 249:10,13;251:3; 253:6,23 Johnson (25) 10:1,2;16:18;18:17; 24:2,22;54:4,7;55:4; 161:14;162:12; 174:11;175:16; 176:13,18;177:8,14; 196:22;198:1;205:7, 20;242:6,22;244:9,14 join (4) 12:22;13:12;61:6; 70:21 joined (2) 124:1;254:1	K Kahl (12) 118:15;123:6,17; 127:19,23,23;130:19; 131:14;132:12;133:2; 134:16;135:7 Kansas (2) 83:3;156:17 Kapacinskas (13) 210:25;216:3; 219:10,11;221:21; 222:3,9;223:4,13,16; 224:10,19,21 Kapustka (7) 208:19;210:25; 216:2,4,4;218:12; 219:2 Karlin (16) 101:6;107:13,16, 16;11:2;112:24; 113:14,18;114:3,13; 115:6,14;116:2; 117:2;118:3,6 Kate (7) 219:8;225:1,3,7; 227:4,5,15 keep (26) 6:19;10:18,18,21;
$\begin{array}{l} 17;84:1;88:14;90:8,9;\\98:7;99:22;102:22;\\106:2;108:25;111:13;\\120:4;122:2;124:3,\\14,15;126:9,11;132:6,\\7;133:7;137:21;\\141:9;147:5;148:18;\\150:19;164:7;165:5;\\170:7;173:11;175:5;\\176:1;178:5,25;\\181:1;183:10;184:6;\\186:19;189:9;190:11,\\13;191:23;192:22,25;\\193:7;197:25;201:5,\\13;202:4;206:7;\\208:7;209:23;210:10;\\211:15;214:6,22;\\236:12,14;237:21;\\238:2;240:3,19;\\241:1;244:10,25;\\245:9;246:2,2,5;\\249:7;250:12,16;\\253:18;254:16\\\textbf{intrigued (1)}\\72:14\\\textbf{introduce (1)}\\103:4\\\textbf{introduced (1)}\\231:16\\ \end{array}$	22:14;33:7;53:7; 55:2,19;71:2;112:22; 113:6;157:21;207:13; 211:6;215:14;222:17; 229:10 involvement (1) 238:20 involving (1) 169:16 IOA (1) 128:9 iodine (3) 30:23,24;68:6 IOIA (5) 225:8,13,22;226:4, 9 IOIA's (1) 226:8 Iowa (4) 76:2;154:7;216:8, 10 IREP (1) 169:24 irregularities (1) 84:15 irrevocable (1) 199:12 is/was (1) 102:15	iterative (1) 208:12 ivermectin (1) 44:24 J Jacob (10) 202:14;208:19; 210:24;211:2,5; 213:9,11;214:3,5; 215:25 January (1) 119:18 Jared (7) 7:15,18,20;8:23; 11:1,12;95:22 Javier (1) 10:24 Javier's (1) 10:24 Jaydee (8) 233:7;235:16,18, 20;237:3,6;238:18; 239:18 Jeez (1) 166:9 Jeffery (5) 9:23,24;20:20;	Joe (21) 26:24,24;27:1,2; 30:14,15;46:12,13; 50:16,16,18,19,23; 51:3;52:25;53:2;54:8; 55:12;56:16,23;77:7 John (37) 12:20,20;13:18,19; 14:3;26:14,16,20; 95:13;98:5;101:6,6; 106:16,21,22,25; 107:1,3;118:8,14,16, 19;119:9;121:9,13; 122:9;123:3;239:20; 246:24;247:5,7,9; 249:10,13;251:3; 253:6,23 Johnson (25) 10:1,2;16:18;18:17; 24:2,22;54:4,7;55:4; 161:14;162:12; 174:11;175:16; 176:13,18;177:8,14; 196:22;198:1;205:7, 20;242:6,22;244:9,14 join (4) 12:22;13:12;61:6; 70:21 joined (2)	K Kahl (12) 118:15;123:6,17; 127:19,23,23;130:19; 131:14;132:12;133:2; 134:16;135:7 Kansas (2) 83:3;156:17 Kapacinskas (13) 210:25;216:3; 219:10,11;221:21; 222:3,9;223:4,13,16; 224:10,19,21 Kapustka (7) 208:19;210:25; 216:2,4,4;218:12; 219:2 Karlin (16) 101:6;107:13,16, 16;11:2;112:24; 113:14,18;114:3,13; 115:6,14;116:2; 117:2;118:3,6 Kate (7) 219:8;225:1,3,7; 227:4,5,15 keep (26)

40:13:41:9:50:5:52:2: 251:12 63:15:77:9:81:9.13: kinds (6) 86:23;89:24;106:20; 88:19;92:3;98:9; 127:3;132:24;145:11; 151:3;165:11;239:2 King (2) 148:15;153:10; 178:10;221:1 19:14,18 keeping (8) knew (3) 74:23:88:21:194:3 69:24;70:7;106:22; 140:10;142:20;155:5; knock (1) 212:17:247:14 64:14 Kenn (10) knowing (5) 216:3:219:8; 104:16;129:6; 153:20;170:13; 224:22,24;227:18,20, 22,25;230:5,6 178:19 kept (3) knowledge (2) 36:2;197:19;207:2 98:21;203:10 knowledgeable (1) Kestrel (6) 26:25;27:10,21,24; 74:25 30:10,11 known (5) key (5) 66:18;117:14; 29:13;53:9;130:25; 121:21;224:25; 237:22 131:25:248:1 Kibowatt (11) knows (4) 57:1;63:19;66:16; 64:6:143:5:178:9: 95:15;135:22;140:11, 217:6 13,16,21,21;143:3 knuckle (1) kick-started (1) 36:13 13:9 kosher (1) killing (1) 21:13 183:10 Kumar (1) Kim (32) 11:5 9:20.22:41:12:54:4: Kvla (13) 55:9:58:9:60:23:61:1; 8:24;11:8,10;26:16; 77:18,19;98:14,15; 50:22;55:10;95:4; 107:14:114:19:116:4, 105:6;113:17;125:21, 22;126:7;138:3; 9;123:14,22 143:15:147:14; Kyla's (1) 152:17;153:25;154:5; 7:9 Kyle (1) 155:25;156:1,6,25; 201:21:213:10; 8:15 249:11,12;251:6 L kind (74) 5:8;14:3,9,12,13, 25;15:7,9,19;18:8; lab (4) 127:9,16;196:3; 24:12;25:2,13;34:6; 35:14;38:14;40:2,6; 204:23 label (15) 43:10;51:19,23; 55:22,23;56:5;59:7, 29:12,23;40:19; 14;60:1,11,23;69:20; 125:18;137:22;142:1; 73:18,22;74:11;76:2, 160:9:167:5,7; 24,25;77:7;78:24; 176:20;229:13,16; 235:3;236:17;248:22 80:10,21,25;88:3; 90:14;118:1;131:1; labeled (2) 103:2;185:13 133:17;144:9;146:6; 151:18;152:25;165:3; labeling (1) 172:1,4;173:11,18; 158:4 174:15;177:20; labels (9) 179:20;180:2;185:1, 85:25;159:8,8,8,8, 2;189:2,23;190:14; 9;166:23;186:10; 192:14:193:21; 229:16 205:14;207:13; label's (1) 208:12;221:24; 229:18 labor (11) 223:16;224:1;245:7;

61:25:62:17.18; 128:24;188:1,7,17,17, 18;197:5,24 laboratories (5) 121:22;122:2; 225:12;226:14,15 laboratory (3) 121:4;226:6,11 labs (2) 226:12:244:17 lack (8) 14:24;29:13,21; 43:4;47:15;102:10, 11:228:22 lading (4) 120:14;155:6,7,14 laid (1) 158:25 Lance (12) 70:13;75:11,19,20, 22;76:2;77:17,20; 79:23,25;82:14,18 Lance's (1) 82:12 land (10) 14:20;18:3;22:13; 70:25;81:11;89:12; 105:19;176:19; 190:13;200:18 landfill (4) 245:10,22,23,24 land-grant (1) 207:21 landscape (1) 220:24 language (3) 5:12;167:1;211:20 languages (1) 5:11 lapses (1) 130:6 large (16) 49:25;69:21,23; 70:6;110:15;139:10; 148:3;160:3;172:19; 184:18;185:7;188:22; 193:8;200:15;201:6; 216:18 larger (11) 52:21;130:2; 138:23;190:18;193:6; 194:2,4,18;207:15,16; 245:7 large-scale (1) 160:9 largest (4) 14:5;109:5;121:6; 127:6 Larry (1) 24:2 last (42) 8:8:13:6:41:6: 51:20;59:19;65:24;

66:4:71:3,4,16:76:10, 25:81:6.16:91:19: 97:3,5;114:7;118:19, 25:123:11:128:20: 129:1:135:9:139:3. 22;145:2;154:10; 159:22,24;166:4; 180:10;184:23;185:3; 195:15;198:9;202:22; 211:9,25;223:6; 237:9;247:4 lastly (2) 170:1;201:9 late (5) 9:18;80:11;98:6; 125:1;256:10 lately (1) 54:9 later (1) 196:5 laudable (1) 212:21 launch (1) 248:24 launched (3) 5:11;94:5,9 laws (1) 16:25 layers (1) 180:17 layperson (1) 221:16 Lea (2) 51:3;77:8 leaching (1) 236:13 lead (4) 47:15:67:10; 173:23:216:17 leader (1) 238:11 leadership (2) 134:12;219:16 leading (4) 149:24;171:8; 230:25;247:11 lean (1) 76:6 learn (2) 80:20;82:12 learning (1) 54:9 leasing (1) 18:3 least (7) 115:17;160:17,18; 198:10;205:8;239:8; 242:9 leave (5) 140:12;160:8; 240:20;243:10; 246:20 leaves (4)

- Vol. 2 April 25, 2024

124:24;132:1; 137:17:169:22 leaving (5) 128:19;131:20; 159:23;162:5;182:21 leerv (1) 176:10 left (9) 7:2;15:14;63:1; 64:22;84:10;132:4; 160:2;236:24,25 legacies (1) 16:20 legal (6) 101:19,19,20; 226:23;238:14;239:8 legalization (1) 211:7 legislative (2) 108:4;234:11 legislators (2) 17:6;108:9 legitimacy (2) 103:20;235:1 legitimate (7) 57:23;63:6;84:23; 103:12;139:24; 182:24;233:16 legitimately (3) 62:10,15;165:17 lending (2) 210:17:224:14 lens (11) 60:19:105:9:109:8: 113:21;115:10,12; 126:1;152:19;201:24; 213:12:249:14 lentils (2) 141:2;143:24 less (16) 32:14,18;52:10; 55:18:67:21:98:9: 101:25;129:25;137:9; 145:20;160:19;195:2, 2;199:21;228:24; 234:6 lessons (1) 167:20 letting (3) 38:12;111:3;229:10 level (42) 15:9;17:24;33:4; 37:11;39:9,11;43:4; 45:6;62:23;65:2;85:5; 87:16;97:13;103:5; 122:5;137:10,14; 139:21;142:12;143:9; 155:1,3,5;167:10; 175:12;178:2;182:11; 183:17,23;203:20; 209:7,25;210:8; 220:16:221:13;

Min-U-Script®

Burke Court Reporting & Transcription (973) 692-0660 228:20;229:23;

Spring 2024 Meeting			T	April 25, 2024
022.04.025.4.048.2	242.9 10	140.1.160.24.161.17.	Logic (1)	52.1.57.4.72.0.77.17.
233:24;235:4;248:3,	242:8,10	149:1;160:24;161:17;	0	53:1;57:4;72:9;77:17;
15;251:22	$\lim_{49} (1)$	162:25;163:12;164:6;	234:25	79:20;84:12;85:10;
Leveling (1)	48:6	165:13;171:21;	logically (1)	89:1;93:15;96:5;
42:13	lineup (1)	172:14;174:19;	217:1	98:13;103:17;106:14;
levels (18)	51:4	180:12;181:2;187:20,	logistical (3)	110:6;115:3;121:10;
36:13,15;39:5;	lining (2)	23;188:7,12;189:20;	105:10;170:12,13	123:13;125:21;138:1;
42:12;48:5;60:8;	241:21,25	193:19;196:10,19;	logistically-wise (1)	145:14;150:5;158:18;
65:10;83:10;139:15;	link (4)	197:15;206:16;	79:5	161:13;177:15;
150:15,18;154:9;	94:17;95:5;107:1;	213:13;239:14;	logistics (4)	183:12;186:24;
155:9;161:25;203:7;	244:12	249:21;250:10	59:7;105:22;126:2;	191:13;201:20;205:4;
209:24;252:14,14	Lisa (14)	live (6)	205:1	210:15;227:5;235:7;
Levine (16)	95:24;96:3;101:2,3,	5:8;96:15;103:7;	logo (2)	242:3;249:10
233:7;235:16;	3;106:14,15,16,18;	154:5;216:7;256:19	157:19;158:5	loop (2)
239:19,23,24;242:5,	119:4;123:4,5,10,18	livelihoods (1)	logos (1)	174:14;198:10
13;243:1,7,13;244:13,	Lisa's (1)	220:8	167:5	loophole (1)
16;245:2,5,14;246:15	123:8	liver (1)	long (21)	201:6
Lewis (13)	list (36)	39:25	67:24;69:11;84:10;	loopholes (2)
9:6,10;35:7;38:6;	7:3,16;27:3;29:6;	lives (2)	86:17;90:10;116:24;	111:8,11
86:13,24;121:13,23;	31:11,20;32:11,19;	105:16;251:14	132:18;143:2;148:10;	Lorenz (1)
151:6,7;194:21,22;	34:24;36:4,5,23;	livestock (29)	159:19;161:18;	247:3
196:15	39:25;44:25;45:1,2,2,	14:11;31:3;32:8;	166:24;176:20;	lose (3)
LG (1)	17;47:2;49:12;67:16;	33:23;34:1;36:18;	178:21;210:10;	103:12;132:25;
54:20	68:13;85:4;123:8;	39:19;41:17,18;47:1,	226:21;229:23;	160:7
licensed (1)	131:23;168:25;169:9;	19;67:12,14,19;68:1;	234:13;244:6;251:22;	loses (2)
100:5	174:3;177:23;178:10;	69:18;87:9;119:13;	252:6	160:6,8
lies (1)	180:21;207:20;232:2,	128:18,19;129:20;	longer (10)	losing (3)
181:3	6;236:7;247:2	132:25;138:10;148:7,	32:16;45:2,18;	10:18;212:24;228:8
life (3)	listed (5)	18;150:9;175:6;	161:23;169:23;	loss (5)
16:7;21:16;38:23	29:5,9;158:7;	197:7;212:6	180:11;194:3;200:20;	102:19;128:21;
lift (4)	174:19;225:21	livestream (1)	243:16;256:14	141:17,18;187:15
131:20;133:14,22;	listen (3)	8:7	longshore (1)	lost (11)
174:2	46:21;209:5;210:11	livestreams (1)	131:6	39:20;65:7;96:24;
Light (1)	listened (2)	8:9	long-term (2)	97:4;156:15,20,22;
Light (1) 217:17	listened (2) 97:12;222:6	8:9 living (4)	long-term (2) 83:23;219:14	97:4;156:15,20,22; 159:25;163:21;196:7;
Light (1) 217:17 lighter (1)	listened (2) 97:12;222:6 listening (4)	8:9 living (4) 164:17;165:22;	long-term (2) 83:23;219:14 look (34)	97:4;156:15,20,22; 159:25;163:21;196:7; 229:2
Light (1) 217:17 lighter (1) 197:22	listened (2) 97:12;222:6 listening (4) 16:22;209:21;	8:9 living (4) 164:17;165:22; 176:19;190:23	long-term (2) 83:23;219:14 look (34) 34:18;37:5,24,25;	97:4;156:15,20,22; 159:25;163:21;196:7; 229:2 lot (118)
Light (1) 217:17 lighter (1) 197:22 liked (1)	listened (2) 97:12;222:6 listening (4) 16:22;209:21; 223:6,8	8:9 living (4) 164:17;165:22; 176:19;190:23 LLC (1)	long-term (2) 83:23;219:14 look (34) 34:18;37:5,24,25; 42:4;56:13;59:5;	97:4;156:15,20,22; 159:25;163:21;196:7; 229:2 lot (118) 14:22;15:14;16:10;
Light (1) 217:17 lighter (1) 197:22 liked (1) 253:6	listened (2) 97:12;222:6 listening (4) 16:22;209:21; 223:6,8 listing (3)	8:9 living (4) 164:17;165:22; 176:19;190:23 LLC (1) 254:12	long-term (2) 83:23;219:14 look (34) 34:18;37:5,24,25; 42:4;56:13;59:5; 85:15,24;111:23;	97:4;156:15,20,22; 159:25;163:21;196:7; 229:2 lot (118) 14:22;15:14;16:10; 17:13;18:3,7,10,18;
Light (1) 217:17 lighter (1) 197:22 liked (1) 253:6 likely (7)	listened (2) 97:12;222:6 listening (4) 16:22;209:21; 223:6,8 listing (3) 30:23;47:3;173:9	8:9 living (4) 164:17;165:22; 176:19;190:23 LLC (1) 254:12 load (14)	long-term (2) 83:23;219:14 look (34) 34:18;37:5,24,25; 42:4;56:13;59:5; 85:15,24;111:23; 115:3;122:14;134:6,	97:4;156:15,20,22; 159:25;163:21;196:7; 229:2 lot (118) 14:22;15:14;16:10; 17:13;18:3,7,10,18; 20:7;22:6,14;23:12;
Light (1) 217:17 lighter (1) 197:22 liked (1) 253:6 likely (7) 52:22;67:21;	listened (2) 97:12;222:6 listening (4) 16:22;209:21; 223:6,8 listing (3) 30:23;47:3;173:9 listings (1)	8:9 living (4) 164:17;165:22; 176:19;190:23 LLC (1) 254:12 load (14) 68:21;76:16,17,20,	long-term (2) 83:23;219:14 look (34) 34:18;37:5,24,25; 42:4;56:13;59:5; 85:15,24;111:23; 115:3;122:14;134:6, 18;138:8;149:4;	97:4;156:15,20,22; 159:25;163:21;196:7; 229:2 lot (118) 14:22;15:14;16:10; 17:13;18:3,7,10,18; 20:7;22:6,14;23:12; 25:19;33:9;34:16;
Light (1) 217:17 lighter (1) 197:22 liked (1) 253:6 likely (7) 52:22;67:21; 168:25;203:13;	listened (2) 97:12;222:6 listening (4) 16:22;209:21; 223:6,8 listing (3) 30:23;47:3;173:9 listings (1) 168:24	8:9 living (4) 164:17;165:22; 176:19;190:23 LLC (1) 254:12 load (14) 68:21;76:16,17,20, 20;124:13;138:19;	long-term (2) 83:23;219:14 look (34) 34:18;37:5,24,25; 42:4;56:13;59:5; 85:15,24;111:23; 115:3;122:14;134:6, 18;138:8;149:4; 150:5;163:18;171:4;	97:4;156:15,20,22; 159:25;163:21;196:7; 229:2 lot (118) 14:22;15:14;16:10; 17:13;18:3,7,10,18; 20:7;22:6,14;23:12; 25:19;33:9;34:16; 38:2;39:13,15;42:24;
Light (1) 217:17 lighter (1) 197:22 liked (1) 253:6 likely (7) 52:22;67:21; 168:25;203:13; 212:15;217:16;	listened (2) 97:12;222:6 listening (4) 16:22;209:21; 223:6,8 listing (3) 30:23;47:3;173:9 listings (1) 168:24 lists (1)	8:9 living (4) 164:17;165:22; 176:19;190:23 LLC (1) 254:12 load (14) 68:21;76:16,17,20, 20;124:13;138:19; 155:1;209:15,15;	long-term (2) 83:23;219:14 look (34) 34:18;37:5,24,25; 42:4;56:13;59:5; 85:15,24;111:23; 115:3;122:14;134:6, 18;138:8;149:4; 150:5;163:18;171:4; 179:15;188:12;189:5;	97:4;156:15,20,22; 159:25;163:21;196:7; 229:2 lot (118) 14:22;15:14;16:10; 17:13;18:3,7,10,18; 20:7;22:6,14;23:12; 25:19;33:9;34:16; 38:2;39:13,15;42:24; 45:2;46:4;49:24,24;
Light (1) 217:17 lighter (1) 197:22 liked (1) 253:6 likely (7) 52:22;67:21; 168:25;203:13; 212:15;217:16; 228:17	listened (2) 97:12;222:6 listening (4) 16:22;209:21; 223:6,8 listing (3) 30:23;47:3;173:9 listings (1) 168:24 lists (1) 158:4	8:9 living (4) 164:17;165:22; 176:19;190:23 LLC (1) 254:12 load (14) 68:21;76:16,17,20, 20;124:13;138:19; 155:1;209:15,15; 217:8,22;228:7,15	long-term (2) 83:23;219:14 look (34) 34:18;37:5,24,25; 42:4;56:13;59:5; 85:15,24;111:23; 115:3;122:14;134:6, 18;138:8;149:4; 150:5;163:18;171:4; 179:15;188:12;189:5; 200:7,8;202:24;	97:4;156:15,20,22; 159:25;163:21;196:7; 229:2 lot (118) 14:22;15:14;16:10; 17:13;18:3,7,10,18; 20:7;22:6,14;23:12; 25:19;33:9;34:16; 38:2;39:13,15;42:24; 45:2;46:4;49:24,24; 51:7;52:17;54:1,9;
Light (1) 217:17 lighter (1) 197:22 liked (1) 253:6 likely (7) 52:22;67:21; 168:25;203:13; 212:15;217:16; 228:17 limited (3)	listened (2) 97:12;222:6 listening (4) 16:22;209:21; 223:6,8 listing (3) 30:23;47:3;173:9 listings (1) 168:24 lists (1) 158:4 literally (1)	8:9 living (4) 164:17;165:22; 176:19;190:23 LLC (1) 254:12 load (14) 68:21;76:16,17,20, 20;124:13;138:19; 155:1;209:15,15; 217:8,22;228:7,15 loaded (1)	long-term (2) 83:23;219:14 look (34) 34:18;37:5,24,25; 42:4;56:13;59:5; 85:15,24;111:23; 115:3;122:14;134:6, 18;138:8;149:4; 150:5;163:18;171:4; 179:15;188:12;189:5; 200:7,8;202:24; 213:2;215:11;217:19;	97:4;156:15,20,22; 159:25;163:21;196:7; 229:2 lot (118) 14:22;15:14;16:10; 17:13;18:3,7,10,18; 20:7;22:6,14;23:12; 25:19;33:9;34:16; 38:2;39:13,15;42:24; 45:2;46:4;49:24,24; 51:7;52:17;54:1,9; 59:17,18;60:6,13;
Light (1) 217:17 lighter (1) 197:22 liked (1) 253:6 likely (7) 52:22;67:21; 168:25;203:13; 212:15;217:16; 228:17 limited (3) 31:19;84:22;211:23	listened (2) 97:12;222:6 listening (4) 16:22;209:21; 223:6,8 listing (3) 30:23;47:3;173:9 listings (1) 168:24 lists (1) 158:4 literally (1) 212:13	8:9 living (4) 164:17;165:22; 176:19;190:23 LLC (1) 254:12 load (14) 68:21;76:16,17,20, 20;124:13;138:19; 155:1;209:15,15; 217:8,22;228:7,15 loaded (1) 11:3	long-term (2) 83:23;219:14 look (34) 34:18;37:5,24,25; 42:4;56:13;59:5; 85:15,24;11:23; 115:3;122:14;134:6, 18;138:8;149:4; 150:5;163:18;171:4; 179:15;188:12;189:5; 200:7,8;202:24; 213:2;215:11;217:19; 222:8;223:11;230:3;	97:4;156:15,20,22; 159:25;163:21;196:7; 229:2 lot (118) 14:22;15:14;16:10; 17:13;18:3,7,10,18; 20:7;22:6,14;23:12; 25:19;33:9;34:16; 38:2;39:13,15;42:24; 45:2;46:4;49:24,24; 51:7;52:17;54:1,9; 59:17,18;60:6,13; 61:15;62:19,20;
Light (1) 217:17 lighter (1) 197:22 liked (1) 253:6 likely (7) 52:22;67:21; 168:25;203:13; 212:15;217:16; 228:17 limited (3) 31:19;84:22;211:23 limiting (2)	listened (2) 97:12;222:6 listening (4) 16:22;209:21; 223:6,8 listing (3) 30:23;47:3;173:9 listings (1) 168:24 lists (1) 158:4 literally (1) 212:13 literature (1)	8:9 living (4) 164:17;165:22; 176:19;190:23 LLC (1) 254:12 load (14) 68:21;76:16,17,20, 20;124:13;138:19; 155:1;209:15,15; 217:8,22;228:7,15 loaded (1) 11:3 loads (4)	long-term (2) 83:23;219:14 look (34) 34:18;37:5,24,25; 42:4;56:13;59:5; 85:15,24;11:23; 115:3;122:14;134:6, 18;138:8;149:4; 150:5;163:18;171:4; 179:15;188:12;189:5; 200:7,8;202:24; 213:2;215:11;217:19; 222:8;223:11;230:3; 232:20;249:14;	97:4;156:15,20,22; 159:25;163:21;196:7; 229:2 lot (118) 14:22;15:14;16:10; 17:13;18:3,7,10,18; 20:7;22:6,14;23:12; 25:19;33:9;34:16; 38:2;39:13,15;42:24; 45:2;46:4;49:24,24; 51:7;52:17;54:1,9; 59:17,18;60:6,13; 61:15;62:19,20; 65:24;66:1;71:11;
Light (1) 217:17 lighter (1) 197:22 liked (1) 253:6 likely (7) 52:22;67:21; 168:25;203:13; 212:15;217:16; 228:17 limited (3) 31:19;84:22;211:23 limiting (2) 149:11;190:10	listened (2) 97:12;222:6 listening (4) 16:22;209:21; 223:6,8 listing (3) 30:23;47:3;173:9 listings (1) 168:24 lists (1) 158:4 literally (1) 212:13 literature (1) 33:21	8:9 living (4) 164:17;165:22; 176:19;190:23 LLC (1) 254:12 load (14) 68:21;76:16,17,20, 20;124:13;138:19; 155:1;209:15,15; 217:8,22;228:7,15 loaded (1) 11:3 loads (4) 33:2;86:6,15;218:4	long-term (2) 83:23;219:14 look (34) 34:18;37:5,24,25; 42:4;56:13;59:5; 85:15,24;11:23; 115:3;122:14;134:6, 18;138:8;149:4; 150:5;163:18;171:4; 179:15;188:12;189:5; 200:7,8;202:24; 213:2;215:11;217:19; 222:8;223:11;230:3; 232:20;249:14; 254:15	97:4;156:15,20,22; 159:25;163:21;196:7; 229:2 lot (118) 14:22;15:14;16:10; 17:13;18:3,7,10,18; 20:7;22:6,14;23:12; 25:19;33:9;34:16; 38:2;39:13,15;42:24; 45:2;46:4;49:24,24; 51:7;52:17;54:1,9; 59:17,18;60:6,13; 61:15;62:19,20; 65:24;66:1;71:11; 72:13;74:8,8,10,12,
Light (1) 217:17 lighter (1) 197:22 liked (1) 253:6 likely (7) 52:22;67:21; 168:25;203:13; 212:15;217:16; 228:17 limited (3) 31:19;84:22;211:23 limiting (2) 149:11;190:10 limits (1)	listened (2) 97:12;222:6 listening (4) 16:22;209:21; 223:6,8 listing (3) 30:23;47:3;173:9 listings (1) 168:24 lists (1) 158:4 literally (1) 212:13 literature (1) 33:21 litter (1)	8:9 living (4) 164:17;165:22; 176:19;190:23 LLC (1) 254:12 load (14) 68:21;76:16,17,20, 20;124:13;138:19; 155:1;209:15,15; 217:8,22;228:7,15 loaded (1) 11:3 loads (4) 33:2;86:6,15;218:4 local (21)	long-term (2) 83:23;219:14 look (34) 34:18;37:5,24,25; 42:4;56:13;59:5; 85:15,24;11:23; 115:3;122:14;134:6, 18;138:8;149:4; 150:5;163:18;171:4; 179:15;188:12;189:5; 200:7,8;202:24; 213:2;215:11;217:19; 222:8;223:11;230:3; 232:20;249:14; 254:15 looked (3)	97:4;156:15,20,22; 159:25;163:21;196:7; 229:2 lot (118) 14:22;15:14;16:10; 17:13;18:3,7,10,18; 20:7;22:6,14;23:12; 25:19;33:9;34:16; 38:2;39:13,15;42:24; 45:2;46:4;49:24,24; 51:7;52:17;54:1,9; 59:17,18;60:6,13; 61:15;62:19,20; 65:24;66:1;71:11; 72:13;74:8,8,10,12, 14,24;75:3;76:9;79:6,
Light (1) 217:17 lighter (1) 197:22 liked (1) 253:6 likely (7) 52:22;67:21; 168:25;203:13; 212:15;217:16; 228:17 limited (3) 31:19;84:22;211:23 limiting (2) 149:11;190:10 limits (1) 217:22	listened (2) 97:12;222:6 listening (4) 16:22;209:21; 223:6,8 listing (3) 30:23;47:3;173:9 listings (1) 168:24 lists (1) 158:4 literally (1) 212:13 literature (1) 33:21 litter (1) 79:11	8:9 living (4) 164:17;165:22; 176:19;190:23 LLC (1) 254:12 load (14) 68:21;76:16,17,20, 20;124:13;138:19; 155:1;209:15,15; 217:8,22;228:7,15 loaded (1) 11:3 loads (4) 33:2;86:6,15;218:4 local (21) 16:10,11;59:11,15,	long-term (2) 83:23;219:14 look (34) 34:18;37:5,24,25; 42:4;56:13;59:5; 85:15,24;11:23; 115:3;122:14;134:6, 18;138:8;149:4; 150:5;163:18;171:4; 179:15;188:12;189:5; 200:7,8;202:24; 213:2;215:11;217:19; 222:8;223:11;230:3; 232:20;249:14; 254:15 looked (3) 18:10;74:15;175:25	97:4;156:15,20,22; 159:25;163:21;196:7; 229:2 lot (118) 14:22;15:14;16:10; 17:13;18:3,7,10,18; 20:7;22:6,14;23:12; 25:19;33:9;34:16; 38:2;39:13,15;42:24; 45:2;46:4;49:24,24; 51:7;52:17;54:1,9; 59:17,18;60:6,13; 61:15;62:19,20; 65:24;66:1;71:11; 72:13;74:8,8,10,12, 14,24;75:3;76:9;79:6, 10,11,11;80:3,19,20,
Light (1) 217:17 lighter (1) 197:22 liked (1) 253:6 likely (7) 52:22;67:21; 168:25;203:13; 212:15;217:16; 228:17 limited (3) 31:19;84:22;211:23 limiting (2) 149:11;190:10 limits (1) 217:22 line (23)	listened (2) 97:12;222:6 listening (4) 16:22;209:21; 223:6,8 listing (3) 30:23;47:3;173:9 listings (1) 168:24 lists (1) 158:4 literally (1) 212:13 literature (1) 33:21 litter (1) 79:11 little (71)	8:9 living (4) 164:17;165:22; 176:19;190:23 LLC (1) 254:12 load (14) 68:21;76:16,17,20, 20;124:13;138:19; 155:1;209:15,15; 217:8,22;228:7,15 loaded (1) 11:3 loads (4) 33:2;86:6,15;218:4 local (21) 16:10,11;59:11,15, 25;78:20;124:3;	long-term (2) 83:23;219:14 look (34) 34:18;37:5,24,25; 42:4;56:13;59:5; 85:15,24;111:23; 115:3;122:14;134:6, 18;138:8;149:4; 150:5;163:18;171:4; 179:15;188:12;189:5; 200:7,8;202:24; 213:2;215:11;217:19; 222:8;223:11;230:3; 232:20;249:14; 254:15 looked (3) 18:10;74:15;175:25 looking (33)	97:4;156:15,20,22; 159:25;163:21;196:7; 229:2 lot (118) 14:22;15:14;16:10; 17:13;18:3,7,10,18; 20:7;22:6,14;23:12; 25:19;33:9;34:16; 38:2;39:13,15;42:24; 45:2;46:4;49:24,24; 51:7;52:17;54:1,9; 59:17,18;60:6,13; 61:15;62:19,20; 65:24;66:1;71:11; 72:13;74:8,8,10,12, 14,24;75:3;76:9;79:6, 10,11,11;80:3,19,20, 23;85:18;86:22;89:3,
Light (1) 217:17 lighter (1) 197:22 liked (1) 253:6 likely (7) 52:22;67:21; 168:25;203:13; 212:15;217:16; 228:17 limited (3) 31:19;84:22;211:23 limiting (2) 149:11;190:10 limits (1) 217:22 line (23) 11:8;21:20;26:15;	listened (2) 97:12;222:6 listening (4) 16:22;209:21; 223:6,8 listing (3) 30:23;47:3;173:9 listings (1) 168:24 lists (1) 158:4 literally (1) 212:13 literature (1) 33:21 litter (1) 79:11 little (71) 9:18;11:3;15:5;	8:9 living (4) 164:17;165:22; 176:19;190:23 LLC (1) 254:12 load (14) 68:21;76:16,17,20, 20;124:13;138:19; 155:1;209:15,15; 217:8,22;228:7,15 loaded (1) 11:3 loads (4) 33:2;86:6,15;218:4 local (21) 16:10,11;59:11,15, 25;78:20;124:3; 126:10;133:19,19,20;	long-term (2) 83:23;219:14 look (34) 34:18;37:5,24,25; 42:4;56:13;59:5; 85:15,24;111:23; 115:3;122:14;134:6, 18;138:8;149:4; 150:5;163:18;171:4; 179:15;188:12;189:5; 200:7,8;202:24; 213:2;215:11;217:19; 222:8;223:11;230:3; 232:20;249:14; 254:15 looked (3) 18:10;74:15;175:25 looking (33) 16:2;34:20;37:21;	97:4;156:15,20,22; 159:25;163:21;196:7; 229:2 lot (118) 14:22;15:14;16:10; 17:13;18:3,7,10,18; 20:7;22:6,14;23:12; 25:19;33:9;34:16; 38:2;39:13,15;42:24; 45:2;46:4;49:24,24; 51:7;52:17;54:1,9; 59:17,18;60:6,13; 61:15;62:19,20; 65:24;66:1;71:11; 72:13;74:8,8,10,12, 14,24;75:3;76:9;79:6, 10,11,11;80:3,19,20, 23;85:18;86:22;89:3, 12,13,14;103:19;
Light (1) 217:17 lighter (1) 197:22 liked (1) 253:6 likely (7) 52:22;67:21; 168:25;203:13; 212:15;217:16; 228:17 limited (3) 31:19;84:22;211:23 limiting (2) 149:11;190:10 limits (1) 217:22 line (23) 11:8;21:20;26:15; 27:19;30:14;46:9;	listened (2) 97:12;222:6 listening (4) 16:22;209:21; 223:6,8 listing (3) 30:23;47:3;173:9 listings (1) 168:24 lists (1) 158:4 literally (1) 212:13 literature (1) 33:21 litter (1) 79:11 little (71) 9:18;11:3;15:5; 19:8;23:3;27:15;32:3,	8:9 living (4) 164:17;165:22; 176:19;190:23 LLC (1) 254:12 load (14) 68:21;76:16,17,20, 20;124:13;138:19; 155:1;209:15,15; 217:8,22;228:7,15 loaded (1) 11:3 loads (4) 33:2;86:6,15;218:4 local (21) 16:10,11;59:11,15, 25;78:20;124:3; 126:10;133:19,19,20; 134:2,3,3;136:14;	long-term (2) 83:23;219:14 look (34) 34:18;37:5,24,25; 42:4;56:13;59:5; 85:15,24;111:23; 115:3;122:14;134:6, 18;138:8;149:4; 150:5;163:18;171:4; 179:15;188:12;189:5; 200:7,8;202:24; 213:2;215:11;217:19; 222:8;223:11;230:3; 232:20;249:14; 254:15 looked (3) 18:10;74:15;175:25 looking (33) 16:2;34:20;37:21; 41:7;42:6,7;43:11;	97:4;156:15,20,22; 159:25;163:21;196:7; 229:2 lot (118) 14:22;15:14;16:10; 17:13;18:3,7,10,18; 20:7;22:6,14;23:12; 25:19;33:9;34:16; 38:2;39:13,15;42:24; 45:2;46:4;49:24,24; 51:7;52:17;54:1,9; 59:17,18;60:6,13; 61:15;62:19,20; 65:24;66:1;71:11; 72:13;74:8,8,10,12, 14,24;75:3;76:9;79:6, 10,11,11;80:3,19,20, 23;85:18;86:22;89:3, 12,13,14;103:19; 104:7;110:16;113:2;
Light (1) 217:17 lighter (1) 197:22 liked (1) 253:6 likely (7) 52:22;67:21; 168:25;203:13; 212:15;217:16; 228:17 limited (3) 31:19;84:22;211:23 limiting (2) 149:11;190:10 limits (1) 217:22 line (23) 11:8;21:20;26:15; 27:19;30:14;46:9; 57:3,5;66:17;92:23;	listened (2) 97:12;222:6 listening (4) 16:22;209:21; 223:6,8 listing (3) 30:23;47:3;173:9 listings (1) 168:24 lists (1) 158:4 literally (1) 212:13 literature (1) 33:21 litter (1) 79:11 little (71) 9:18;11:3;15:5; 19:8;23:3;27:15;32:3, 24;33:20;34:7;36:22;	8:9 living (4) 164:17;165:22; 176:19;190:23 LLC (1) 254:12 load (14) 68:21;76:16,17,20, 20;124:13;138:19; 155:1;209:15,15; 217:8,22;228:7,15 loaded (1) 11:3 loads (4) 33:2;86:6,15;218:4 local (21) 16:10,11;59:11,15, 25;78:20;124:3; 126:10;133:19,19,20; 134:2,3,3;136:14; 154:14;155:1,5,9,18;	long-term (2) 83:23;219:14 look (34) 34:18;37:5,24,25; 42:4;56:13;59:5; 85:15,24;111:23; 115:3;122:14;134:6, 18;138:8;149:4; 150:5;163:18;171:4; 179:15;188:12;189:5; 200:7,8;202:24; 213:2;215:11;217:19; 222:8;223:11;230:3; 232:20;249:14; 254:15 looked (3) 18:10;74:15;175:25 looking (33) 16:2;34:20;37:21; 41:7;42:6,7;43:11; 56:18;70:5;74:16,21;	97:4;156:15,20,22; 159:25;163:21;196:7; 229:2 lot (118) 14:22;15:14;16:10; 17:13;18:3,7,10,18; 20:7;22:6,14;23:12; 25:19;33:9;34:16; 38:2;39:13,15;42:24; 45:2;46:4;49:24,24; 51:7;52:17;54:1,9; 59:17,18;60:6,13; 61:15;62:19,20; 65:24;66:1;71:11; 72:13;74:8,8,10,12, 14,24;75:3;76:9;79:6, 10,11,11;80:3,19,20, 23;85:18;86:22;89:3, 12,13,14;103:19; 104:7;110:16;113:2; 115:1;117:20;132:22;
Light (1) 217:17 lighter (1) 197:22 liked (1) 253:6 likely (7) 52:22;67:21; 168:25;203:13; 212:15;217:16; 228:17 limited (3) 31:19;84:22;211:23 limiting (2) 149:11;190:10 limits (1) 217:22 line (23) 11:8;21:20;26:15; 27:19;30:14;46:9; 57:3,5;66:17;92:23; 99:22;100:4,7;101:3;	listened (2) 97:12;222:6 listening (4) 16:22;209:21; 223:6,8 listing (3) 30:23;47:3;173:9 listings (1) 168:24 lists (1) 158:4 literally (1) 212:13 literature (1) 33:21 litter (1) 79:11 little (71) 9:18;11:3;15:5; 19:8;23:3;27:15;32:3, 24;33:20;34:7;36:22; 43:7;45:13;49:19;	8:9 living (4) 164:17;165:22; 176:19;190:23 LLC (1) 254:12 load (14) 68:21;76:16,17,20, 20;124:13;138:19; 155:1;209:15,15; 217:8,22;228:7,15 loaded (1) 11:3 loads (4) 33:2;86:6,15;218:4 local (21) 16:10,11;59:11,15, 25;78:20;124:3; 126:10;133:19,19,20; 134:2,3,3;136:14; 154:14;155:1,5,9,18; 194:6	long-term (2) 83:23;219:14 look (34) 34:18;37:5,24,25; 42:4;56:13;59:5; 85:15,24;111:23; 115:3;122:14;134:6, 18;138:8;149:4; 150:5;163:18;171:4; 179:15;188:12;189:5; 200:7,8;202:24; 213:2;215:11;217:19; 222:8;223:11;230:3; 232:20;249:14; 254:15 looked (3) 18:10;74:15;175:25 looking (33) 16:2;34:20;37:21; 41:7;42:6,7;43:11; 56:18;70:5;74:16,21; 110:11,13;112:23;	97:4;156:15,20,22; 159:25;163:21;196:7; 229:2 lot (118) 14:22;15:14;16:10; 17:13;18:3,7,10,18; 20:7;22:6,14;23:12; 25:19;33:9;34:16; 38:2;39:13,15;42:24; 45:2;46:4;49:24,24; 51:7;52:17;54:1,9; 59:17,18;60:6,13; 61:15;62:19,20; 65:24;66:1;71:11; 72:13;74:8,8,10,12, 14,24;75:3;76:9;79:6, 10,11,11;80:3,19,20, 23;85:18;86:22;89:3, 12,13,14;103:19; 104:7;110:16;113:2; 115:1;117:20;132:22; 137:20;142:24;144:4,
Light (1) 217:17 lighter (1) 197:22 liked (1) 253:6 likely (7) 52:22;67:21; 168:25;203:13; 212:15;217:16; 228:17 limited (3) 31:19;84:22;211:23 limiting (2) 149:11;190:10 limits (1) 217:22 line (23) 11:8;21:20;26:15; 27:19;30:14;46:9; 57:3,5;66:17;92:23; 99:22;100:4,7;101:3; 106:15;134:9;149:6;	listened (2) 97:12;222:6 listening (4) 16:22;209:21; 223:6,8 listing (3) 30:23;47:3;173:9 listings (1) 168:24 lists (1) 158:4 literally (1) 212:13 literature (1) 33:21 litter (1) 79:11 little (71) 9:18;11:3;15:5; 19:8;23:3;27:15;32:3, 24;33:20;34:7;36:22; 43:7;45:13;49:19; 53:13;61:8;71:8;78:6,	8:9 living (4) 164:17;165:22; 176:19;190:23 LLC (1) 254:12 load (14) 68:21;76:16,17,20, 20;124:13;138:19; 155:1;209:15,15; 217:8,22;228:7,15 loaded (1) 11:3 loads (4) 33:2;86:6,15;218:4 local (21) 16:10,11;59:11,15, 25;78:20;124:3; 126:10;133:19,19,20; 134:2,3,3;136:14; 154:14;155:1,5,9,18; 194:6 locally (3)	long-term (2) 83:23;219:14 look (34) 34:18;37:5,24,25; 42:4;56:13;59:5; 85:15,24;111:23; 115:3;122:14;134:6, 18;138:8;149:4; 150:5;163:18;171:4; 179:15;188:12;189:5; 200:7,8;202:24; 213:2;215:11;217:19; 222:8;223:11;230:3; 232:20;249:14; 254:15 looked (3) 18:10;74:15;175:25 looking (33) 16:2;34:20;37:21; 41:7;42:6,7;43:11; 56:18;70:5;74:16,21; 110:11,13;112:23; 126:19;131:12;	97:4;156:15,20,22; 159:25;163:21;196:7; 229:2 lot (118) 14:22;15:14;16:10; 17:13;18:3,7,10,18; 20:7;22:6,14;23:12; 25:19;33:9;34:16; 38:2;39:13,15;42:24; 45:2;46:4;49:24,24; 51:7;52:17;54:1,9; 59:17,18;60:6,13; 61:15;62:19,20; 65:24;66:1;71:11; 72:13;74:8,8,10,12, 14,24;75:3;76:9;79:6, 10,11,11;80:3,19,20, 23;85:18;86:22;89:3, 12,13,14;103:19; 104:7;110:16;113:2; 115:1;117:20;132:22; 137:20;142:24;144:4, 10,19;145:4,17;
Light (1) 217:17 lighter (1) 197:22 liked (1) 253:6 likely (7) 52:22;67:21; 168:25;203:13; 212:15;217:16; 228:17 limited (3) 31:19;84:22;211:23 limiting (2) 149:11;190:10 limits (1) 217:22 line (23) 11:8;21:20;26:15; 27:19;30:14;46:9; 57:3,5;66:17;92:23; 99:22;100:4,7;101:3; 106:15;134:9;149:6; 169:12;181:18,23;	listened (2) 97:12;222:6 listening (4) 16:22;209:21; 223:6,8 listing (3) 30:23;47:3;173:9 listings (1) 168:24 lists (1) 158:4 literally (1) 212:13 literature (1) 33:21 litter (1) 79:11 little (71) 9:18;11:3;15:5; 19:8;23:3;27:15;32:3, 24;33:20;34:7;36:22; 43:7;45:13;49:19; 53:13;61:8;71:8;78:6, 8,13,16;79:16;80:1;	8:9 living (4) 164:17;165:22; 176:19;190:23 LLC (1) 254:12 load (14) 68:21;76:16,17,20, 20;124:13;138:19; 155:1;209:15,15; 217:8,22;228:7,15 loaded (1) 11:3 loads (4) 33:2;86:6,15;218:4 local (21) 16:10,11;59:11,15, 25;78:20;124:3; 126:10;133:19,19,20; 134:2,3,3;136:14; 154:14;155:1,5,9,18; 194:6 locally (3) 73:19;247:23;	long-term (2) 83:23;219:14 look (34) 34:18;37:5,24,25; 42:4;56:13;59:5; 85:15,24;111:23; 115:3;122:14;134:6, 18;138:8;149:4; 150:5;163:18;171:4; 179:15;188:12;189:5; 200:7,8;202:24; 213:2;215:11;217:19; 222:8;223:11;230:3; 232:20;249:14; 254:15 looked (3) 18:10;74:15;175:25 looking (33) 16:2;34:20;37:21; 41:7;42:6,7;43:11; 56:18;70:5;74:16,21; 110:11,13;112:23; 126:19;131:12; 134:12;139:3;149:6;	97:4;156:15,20,22; 159:25;163:21;196:7; 229:2 lot (118) 14:22;15:14;16:10; 17:13;18:3,7,10,18; 20:7;22:6,14;23:12; 25:19;33:9;34:16; 38:2;39:13,15;42:24; 45:2;46:4;49:24,24; 51:7;52:17;54:1,9; 59:17,18;60:6,13; 61:15;62:19,20; 65:24;66:1;71:11; 72:13;74:8,8,10,12, 14,24;75:3;76:9;79:6, 10,11,11;80:3,19,20, 23;85:18;86:22;89:3, 12,13,14;103:19; 104:7;110:16;113:2; 115:1;117:20;132:22; 137:20;142:24;144:4, 10,19;145:4,17; 146:5;152:11;159:22;
Light (1) 217:17 lighter (1) 197:22 liked (1) 253:6 likely (7) 52:22;67:21; 168:25;203:13; 212:15;217:16; 228:17 limited (3) 31:19;84:22;211:23 limiting (2) 149:11;190:10 limits (1) 217:22 line (23) 11:8;21:20;26:15; 27:19;30:14;46:9; 57:3,5;66:17;92:23; 99:22;100:4,7;101:3; 106:15;134:9;149:6; 169:12;181:18,23; 187:23;224:24;	listened (2) 97:12;222:6 listening (4) 16:22;209:21; 223:6,8 listing (3) 30:23;47:3;173:9 listings (1) 168:24 lists (1) 158:4 literally (1) 212:13 literature (1) 33:21 little (71) 9:18;11:3;15:5; 19:8;23:3;27:15;32:3, 24;33:20;34:7;36:22; 43:7;45:13;49:19; 53:13;61:8;71:8;78:6, 8,13,16;79:16;80:1; 81:2,22;82:12;87:22;	8:9 living (4) 164:17;165:22; 176:19;190:23 LLC (1) 254:12 load (14) 68:21;76:16,17,20, 20;124:13;138:19; 155:1;209:15,15; 217:8,22;228:7,15 loaded (1) 11:3 loads (4) 33:2;86:6,15;218:4 local (21) 16:10,11;59:11,15, 25;78:20;124:3; 126:10;133:19,19,20; 134:2,3,3;136:14; 154:14;155:1,5,9,18; 194:6 locally (3) 73:19;247:23; 248:19	long-term (2) 83:23;219:14 look (34) 34:18;37:5,24,25; 42:4;56:13;59:5; 85:15,24;111:23; 115:3;122:14;134:6, 18;138:8;149:4; 150:5;163:18;171:4; 179:15;188:12;189:5; 200:7,8;202:24; 213:2;215:11;217:19; 222:8;223:11;230:3; 232:20;249:14; 254:15 looked (3) 18:10;74:15;175:25 looking (33) 16:2;34:20;37:21; 41:7;42:6,7;43:11; 56:18;70:5;74:16,21; 110:11,13;112:23; 126:19;131:12; 134:12;139:3;149:6; 156:11,11;163:2;	97:4;156:15,20,22; 159:25;163:21;196:7; 229:2 lot (118) 14:22;15:14;16:10; 17:13;18:3,7,10,18; 20:7;22:6,14;23:12; 25:19;33:9;34:16; 38:2;39:13,15;42:24; 45:2;46:4;49:24,24; 51:7;52:17;54:1,9; 59:17,18;60:6,13; 61:15;62:19,20; 65:24;66:1;71:11; 72:13;74:8,8,10,12, 14,24;75:3;76:9;79:6, 10,11,11;80:3,19,20, 23;85:18;86:22;89:3, 12,13,14;103:19; 104:7;110:16;113:2; 115:1;117:20;132:22; 137:20;142:24;144:4, 10,19;145:4,17; 146:5;152:11;159:22; 161:1;162:6;164:3;
Light (1) 217:17 lighter (1) 197:22 liked (1) 253:6 likely (7) 52:22;67:21; 168:25;203:13; 212:15;217:16; 228:17 limited (3) 31:19;84:22;211:23 limiting (2) 149:11;190:10 limits (1) 217:22 line (23) 11:8;21:20;26:15; 27:19;30:14;46:9; 57:3,5;66:17;92:23; 99:22;100:4,7;101:3; 106:15;134:9;149:6; 169:12;181:18,23; 187:23;224:24; 251:16	listened (2) 97:12;222:6 listening (4) 16:22;209:21; 223:6,8 listing (3) 30:23;47:3;173:9 listings (1) 168:24 lists (1) 158:4 literally (1) 212:13 literature (1) 33:21 litter (1) 9:18;11:3;15:5; 19:8;23:3;27:15;32:3, 24;33:20;34:7;36:22; 43:7;45:13;49:19; 53:13;61:8;71:8;78:6, 8,13,16;79:16;80:1; 81:2,22;82:12;87:22; 93:10;97:15;105:10;	8:9 living (4) 164:17;165:22; 176:19;190:23 LLC (1) 254:12 load (14) 68:21;76:16,17,20, 20;124:13;138:19; 155:1;209:15,15; 217:8,22;228:7,15 loaded (1) 11:3 loads (4) 33:2;86:6,15;218:4 local (21) 16:10,11;59:11,15, 25;78:20;124:3; 126:10;133:19,19,20; 134:2,3,3;136:14; 154:14;155:1,5,9,18; 194:6 locally (3) 73:19;247:23; 248:19 locate (1)	long-term (2) 83:23;219:14 look (34) 34:18;37:5,24,25; 42:4;56:13;59:5; 85:15,24;111:23; 115:3;122:14;134:6, 18;138:8;149:4; 150:5;163:18;171:4; 179:15;188:12;189:5; 200:7,8;202:24; 213:2;215:11;217:19; 222:8;223:11;230:3; 232:20;249:14; 254:15 looked (3) 18:10;74:15;175:25 looking (33) 16:2;34:20;37:21; 41:7;42:6,7;43:11; 56:18;70:5;74:16,21; 110:11,13;112:23; 126:19;131:12; 134:12;139:3;149:6; 156:11,11;163:2; 169:13;171:11;173:1;	97:4;156:15,20,22; 159:25;163:21;196:7; 229:2 lot (118) 14:22;15:14;16:10; 17:13;18:3,7,10,18; 20:7;22:6,14;23:12; 25:19;33:9;34:16; 38:2;39:13,15;42:24; 45:2;46:4;49:24,24; 51:7;52:17;54:1,9; 59:17,18;60:6,13; 61:15;62:19,20; 65:24;66:1;71:11; 72:13;74:8,8,10,12, 14,24;75:3;76:9;79:6, 10,11,11;80:3,19,20, 23;85:18;86:22;89:3, 12,13,14;103:19; 104:7;110:16;113:2; 115:1;117:20;132:22; 137:20;142:24;144:4, 10,19;145:4,17; 146:5;152:11;159:22; 161:1;162:6;164:3; 165:18;167:5,11,21;
Light (1) 217:17 lighter (1) 197:22 liked (1) 253:6 likely (7) 52:22;67:21; 168:25;203:13; 212:15;217:16; 228:17 limited (3) 31:19;84:22;211:23 limiting (2) 149:11;190:10 limits (1) 217:22 line (23) 11:8;21:20;26:15; 27:19;30:14;46:9; 57:3,5;66:17;92:23; 99:22;100:4,7;101:3; 106:15;134:9;149:6; 169:12;181:18,23; 187:23;224:24; 251:16 lined (1)	listened (2) 97:12;222:6 listening (4) 16:22;209:21; 223:6,8 listing (3) 30:23;47:3;173:9 listings (1) 168:24 lists (1) 158:4 literally (1) 212:13 literature (1) 33:21 litter (1) 9:18;11:3;15:5; 19:8;23:3;27:15;32:3, 24;33:20;34:7;36:22; 43:7;45:13;49:19; 53:13;61:8;71:8;78:6, 8,13,16;79:16;80:1; 81:2,22;82:12;87:22; 93:10;97:15;105:10; 107:5,5;111:4;	8:9 living (4) 164:17;165:22; 176:19;190:23 LLC (1) 254:12 load (14) 68:21;76:16,17,20, 20;124:13;138:19; 155:1;209:15,15; 217:8,22;228:7,15 loaded (1) 11:3 loads (4) 33:2;86:6,15;218:4 local (21) 16:10,11;59:11,15, 25;78:20;124:3; 126:10;133:19,19,20; 134:2,3,3;136:14; 154:14;155:1,5,9,18; 194:6 locally (3) 73:19;247:23; 248:19 locate (1) 6:15	long-term (2) 83:23;219:14 look (34) 34:18;37:5,24,25; 42:4;56:13;59:5; 85:15,24;111:23; 115:3;122:14;134:6, 18;138:8;149:4; 150:5;163:18;171:4; 179:15;188:12;189:5; 200:7,8;202:24; 213:2;215:11;217:19; 222:8;223:11;230:3; 232:20;249:14; 254:15 looked (3) 18:10;74:15;175:25 looking (33) 16:2;34:20;37:21; 41:7;42:6,7;43:11; 56:18;70:5;74:16,21; 110:11,13;112:23; 126:19;131:12; 134:12;139:3;149:6; 156:11,11;163:2; 169:13;171:11;173:1; 179:17;194:9,10;	97:4;156:15,20,22; 159:25;163:21;196:7; 229:2 lot (118) 14:22;15:14;16:10; 17:13;18:3,7,10,18; 20:7;22:6,14;23:12; 25:19;33:9;34:16; 38:2;39:13,15;42:24; 45:2;46:4;49:24,24; 51:7;52:17;54:1,9; 59:17,18;60:6,13; 61:15;62:19,20; 65:24;66:1;71:11; 72:13;74:8,8,10,12, 14,24;75:3;76:9;79:6, 10,11,11;80:3,19,20, 23;85:18;86:22;89:3, 12,13,14;103:19; 104:7;110:16;113:2; 115:1;117:20;132:22; 137:20;142:24;144:4, 10,19;145:4,17; 146:5;152:11;159:22; 161:1;162:6;164:3; 165:18;167:5,11,21; 171:7;174:7,17;
Light (1) 217:17 lighter (1) 197:22 liked (1) 253:6 likely (7) 52:22;67:21; 168:25;203:13; 212:15;217:16; 228:17 limited (3) 31:19;84:22;211:23 limiting (2) 149:11;190:10 limits (1) 217:22 line (23) 11:8;21:20;26:15; 27:19;30:14;46:9; 57:3,5;66:17;92:23; 99:22;100:4,7;101:3; 106:15;134:9;149:6; 169:12;181:18,23; 187:23;224:24; 251:16 lined (1) 241:18	listened (2) 97:12;222:6 listening (4) 16:22;209:21; 223:6,8 listing (3) 30:23;47:3;173:9 listings (1) 168:24 lists (1) 158:4 literally (1) 212:13 literature (1) 33:21 litter (1) 79:11 little (71) 9:18;11:3;15:5; 19:8;23:3;27:15;32:3, 24;33:20;34:7;36:22; 43:7;45:13;49:19; 53:13;61:8;71:8;78:6, 8,13,16;79:16;80:1; 81:2,22;82:12;87:22; 93:10;97:15;105:10; 107:5,5;111:4; 113:23;115:21;	8:9 living (4) 164:17;165:22; 176:19;190:23 LLC (1) 254:12 load (14) 68:21;76:16,17,20, 20;124:13;138:19; 155:1;209:15,15; 217:8,22;228:7,15 loaded (1) 11:3 loads (4) 33:2;86:6,15;218:4 local (21) 16:10,11;59:11,15, 25;78:20;124:3; 126:10;133:19,19,20; 134:2,3,3;136:14; 154:14;155:1,5,9,18; 194:6 locally (3) 73:19;247:23; 248:19 locate (1) 6:15 log (2)	long-term (2) 83:23;219:14 look (34) 34:18;37:5,24,25; 42:4;56:13;59:5; 85:15,24;111:23; 115:3;122:14;134:6, 18;138:8;149:4; 150:5;163:18;171:4; 179:15;188:12;189:5; 200:7,8;202:24; 213:2;215:11;217:19; 222:8;223:11;230:3; 232:20;249:14; 254:15 looked (3) 18:10;74:15;175:25 looking (33) 16:2;34:20;37:21; 41:7;42:6,7;43:11; 56:18;70:5;74:16,21; 110:11,13;112:23; 126:19;131:12; 134:12;139:3;149:6; 156:11,11;163:2; 169:13;171:11;173:1; 179:17;194:9,10; 211:13;214:22;215:2;	97:4;156:15,20,22; 159:25;163:21;196:7; 229:2 lot (118) 14:22;15:14;16:10; 17:13;18:3,7,10,18; 20:7;22:6,14;23:12; 25:19;33:9;34:16; 38:2;39:13,15;42:24; 45:2;46:4;49:24,24; 51:7;52:17;54:1,9; 59:17,18;60:6,13; 61:15;62:19,20; 65:24;66:1;71:11; 72:13;74:8,8,10,12, 14,24;75:3;76:9;79:6, 10,11,11;80:3,19,20, 23;85:18;86:22;89:3, 12,13,14;103:19; 104:7;110:16;113:2; 115:1;117:20;132:22; 137:20;142:24;144:4, 10,19;145:4,17; 146:5;152:11;159:22; 161:1;162:6;164:3; 165:18;167:5,11,21; 171:7;174:7,17; 180:13,25;182:12,19;
Light (1) 217:17 lighter (1) 197:22 liked (1) 253:6 likely (7) 52:22;67:21; 168:25;203:13; 212:15;217:16; 228:17 limited (3) 31:19;84:22;211:23 limiting (2) 149:11;190:10 limits (1) 217:22 line (23) 11:8;21:20;26:15; 27:19;30:14;46:9; 57:3,5;66:17;92:23; 99:22;100:4,7;101:3; 106:15;134:9;149:6; 169:12;181:18,23; 187:23;224:24; 251:16 lined (1) 241:18 liner (1)	listened (2) 97:12;222:6 listening (4) 16:22;209:21; 223:6,8 listing (3) 30:23;47:3;173:9 listings (1) 168:24 lists (1) 158:4 literally (1) 212:13 literature (1) 33:21 litter (1) 79:11 little (71) 9:18;11:3;15:5; 19:8;23:3;27:15;32:3, 24;33:20;34:7;36:22; 43:7;45:13;49:19; 53:13;61:8;71:8;78:6, 8,13,16;79:16;80:1; 81:2,22;82:12;87:22; 93:10;97:15;105:10; 107:5,5;111:4; 113:23;115:21; 117:15;118:14;124:6;	8:9 living (4) 164:17;165:22; 176:19;190:23 LLC (1) 254:12 load (14) 68:21;76:16,17,20, 20;124:13;138:19; 155:1;209:15,15; 217:8,22;228:7,15 loaded (1) 11:3 loads (4) 33:2;86:6,15;218:4 local (21) 16:10,11;59:11,15, 25;78:20;124:3; 126:10;133:19,19,20; 134:2,3,3;136:14; 154:14;155:1,5,9,18; 194:6 locally (3) 73:19;247:23; 248:19 locate (1) 6:15 log (2) 6:5,5	long-term (2) 83:23;219:14 look (34) 34:18;37:5,24,25; 42:4;56:13;59:5; 85:15,24;111:23; 115:3;122:14;134:6, 18;138:8;149:4; 150:5;163:18;171:4; 179:15;188:12;189:5; 200:7,8;202:24; 213:2;215:11;217:19; 222:8;223:11;230:3; 232:20;249:14; 254:15 looked (3) 16:2;34:20;37:21; 41:7;42:6,7;43:11; 56:18;70:5;74:16,21; 110:11,13;112:23; 126:19;131:12; 134:12;139:3;149:6; 156:11,11;163:2; 169:13;171:11;173:1; 179:17;194:9,10; 211:13;214:22;215:2; 253:10,11	97:4;156:15,20,22; 159:25;163:21;196:7; 229:2 lot (118) 14:22;15:14;16:10; 17:13;18:3,7,10,18; 20:7;22:6,14;23:12; 25:19;33:9;34:16; 38:2;39:13,15;42:24; 45:2;46:4;49:24,24; 51:7;52:17;54:1,9; 59:17,18;60:6,13; 61:15;62:19,20; 65:24;66:1;71:11; 72:13;74:8,8,10,12, 14,24;75:3;76:9;79:6, 10,11,11;80:3,19,20, 23;85:18;86:22;89:3, 12,13,14;103:19; 104:7;110:16;113:2; 115:1;117:20;132:22; 137:20;142:24;144:4, 10,19;145:4,17; 146:5;152:11;159:22; 161:1;162:6;164:3; 165:18;167:5,11,21; 171:7;174:7,17; 180:13,25;182:12,19; 183:18,25,25;184:19;
Light (1) 217:17 lighter (1) 197:22 liked (1) 253:6 likely (7) 52:22;67:21; 168:25;203:13; 212:15;217:16; 228:17 limited (3) 31:19;84:22;211:23 limiting (2) 149:11;190:10 limits (1) 217:22 line (23) 11:8;21:20;26:15; 27:19;30:14;46:9; 57:3,5;66:17;92:23; 99:22;100:4,7;101:3; 106:15;134:9;149:6; 169:12;181:18,23; 187:23;224:24; 251:16 lined (1) 241:18 liner (1) 241:19	listened (2) 97:12;222:6 listening (4) 16:22;209:21; 223:6,8 listing (3) 30:23;47:3;173:9 listings (1) 168:24 lists (1) 158:4 literally (1) 212:13 literature (1) 33:21 litter (1) 79:11 little (71) 9:18;11:3;15:5; 19:8;23:3;27:15;32:3, 24;33:20;34:7;36:22; 43:7;45:13;49:19; 53:13;61:8;71:8;78:6, 8,13,16;79:16;80:1; 81:2,22;82:12;87:22; 93:10;97:15;105:10; 107:5,5;111:4; 113:23;115:21; 117:15;118:14;124:6; 126:24;129:15;138:4,	8:9 living (4) 164:17;165:22; 176:19;190:23 LLC (1) 254:12 load (14) 68:21;76:16,17,20, 20;124:13;138:19; 155:1;209:15,15; 217:8,22;228:7,15 loaded (1) 11:3 loads (4) 33:2;86:6,15;218:4 local (21) 16:10,11;59:11,15, 25;78:20;124:3; 126:10;133:19,19,20; 134:2,3,3;136:14; 154:14;155:1,5,9,18; 194:6 locally (3) 73:19;247:23; 248:19 locate (1) 6:15 log (2) 6:5,5 Logan (5)	long-term (2) 83:23;219:14 look (34) 34:18;37:5,24,25; 42:4;56:13;59:5; 85:15,24;111:23; 115:3;122:14;134:6, 18;138:8;149:4; 150:5;163:18;171:4; 179:15;188:12;189:5; 200:7,8;202:24; 213:2;215:11;217:19; 222:8;223:11;230:3; 232:20;249:14; 254:15 looked (3) 16:2;34:20;37:21; 41:7;42:6,7;43:11; 56:18;70:5;74:16,21; 110:11,13;112:23; 126:19;131:12; 134:12;139:3;149:6; 156:11,11;163:2; 169:13;171:11;173:1; 179:17;194:9,10; 211:13;214:22;215:2; 253:10,11 Looks (37)	97:4;156:15,20,22; 159:25;163:21;196:7; 229:2 lot (118) 14:22;15:14;16:10; 17:13;18:3,7,10,18; 20:7;22:6,14;23:12; 25:19;33:9;34:16; 38:2;39:13,15;42:24; 45:2;46:4;49:24,24; 51:7;52:17;54:1,9; 59:17,18;60:6,13; 61:15;62:19,20; 65:24;66:1;71:11; 72:13;74:8,8,10,12, 14,24;75:3;76:9;79:6, 10,11,11;80:3,19,20, 23;85:18;86:22;89:3, 12,13,14;103:19; 104:7;110:16;113:2; 137:20;142:24;144:4, 10,19;145:4,17; 146:5;152:11;159:22; 161:1;162:6;164:3; 165:18;167:5,11,21; 171:7;174:7,17; 180:13,25;182:12,19; 183:18,25,25;184:19; 185:5;186:20;188:5,
Light (1) 217:17 lighter (1) 197:22 liked (1) 253:6 likely (7) 52:22;67:21; 168:25;203:13; 212:15;217:16; 228:17 limited (3) 31:19;84:22;211:23 limiting (2) 149:11;190:10 limits (1) 217:22 line (23) 11:8;21:20;26:15; 27:19;30:14;46:9; 57:3,5;66:17;92:23; 99:22;100:4,7;101:3; 106:15;134:9;149:6; 169:12;181:18,23; 187:23;224:24; 251:16 lined (1) 241:18 liner (1)	listened (2) 97:12;222:6 listening (4) 16:22;209:21; 223:6,8 listing (3) 30:23;47:3;173:9 listings (1) 168:24 lists (1) 158:4 literally (1) 212:13 literature (1) 33:21 litter (1) 79:11 little (71) 9:18;11:3;15:5; 19:8;23:3;27:15;32:3, 24;33:20;34:7;36:22; 43:7;45:13;49:19; 53:13;61:8;71:8;78:6, 8,13,16;79:16;80:1; 81:2,22;82:12;87:22; 93:10;97:15;105:10; 107:5,5;111:4; 113:23;115:21; 117:15;118:14;124:6;	8:9 living (4) 164:17;165:22; 176:19;190:23 LLC (1) 254:12 load (14) 68:21;76:16,17,20, 20;124:13;138:19; 155:1;209:15,15; 217:8,22;228:7,15 loaded (1) 11:3 loads (4) 33:2;86:6,15;218:4 local (21) 16:10,11;59:11,15, 25;78:20;124:3; 126:10;133:19,19,20; 134:2,3,3;136:14; 154:14;155:1,5,9,18; 194:6 locally (3) 73:19;247:23; 248:19 locate (1) 6:15 log (2) 6:5,5	long-term (2) 83:23;219:14 look (34) 34:18;37:5,24,25; 42:4;56:13;59:5; 85:15,24;111:23; 115:3;122:14;134:6, 18;138:8;149:4; 150:5;163:18;171:4; 179:15;188:12;189:5; 200:7,8;202:24; 213:2;215:11;217:19; 222:8;223:11;230:3; 232:20;249:14; 254:15 looked (3) 16:2;34:20;37:21; 41:7;42:6,7;43:11; 56:18;70:5;74:16,21; 110:11,13;112:23; 126:19;131:12; 134:12;139:3;149:6; 156:11,11;163:2; 169:13;171:11;173:1; 179:17;194:9,10; 211:13;214:22;215:2; 253:10,11	97:4;156:15,20,22; 159:25;163:21;196:7; 229:2 lot (118) 14:22;15:14;16:10; 17:13;18:3,7,10,18; 20:7;22:6,14;23:12; 25:19;33:9;34:16; 38:2;39:13,15;42:24; 45:2;46:4;49:24,24; 51:7;52:17;54:1,9; 59:17,18;60:6,13; 61:15;62:19,20; 65:24;66:1;71:11; 72:13;74:8,8,10,12, 14,24;75:3;76:9;79:6, 10,11,11;80:3,19,20, 23;85:18;86:22;89:3, 12,13,14;103:19; 104:7;110:16;113:2; 115:1;117:20;132:22; 137:20;142:24;144:4, 10,19;145:4,17; 146:5;152:11;159:22; 161:1;162:6;164:3; 165:18;167:5,11,21; 171:7;174:7,17; 180:13,25;182:12,19; 183:18,25,25;184:19;

Burke Court Reporting & Transcription (973) 692-0660

- Vol. 2 April 25, 2024

Spring 2024 Meeting	
194:9;196:9;197:10;	176:5;197:1
209:6,20;210:7,21;	Maine (1)
214:25;215:13;	236:19
221:12,23;224:16;	mainly (3)
233:15;237:6,9;	14:15;128:16;1
· · · ·	
243:20	maintain (10)
lots (6)	29:25;37:22;39
52:11;59:15;89:21;	41:7;44:9;55:23
94:8;112:4;146:3	125:18;168:17;
loud (2)	220:7
57:20;106:7	
	maintaining (1)
louder (1)	45:6
13:10	major (10)
love (14)	23:17;31:8;51:1
20:11;23:7,21;	52:3;65:7;170:1
40:17,19;64:23;	200:7;203:19;22
100:1;104:7;113:9;	229:3
115:7;117:18;146:13;	majority (3)
163:10;177:25	6:6;193:7;234:2
lovely (1)	makes (6)
184:14	51:11;88:15;13
low (6)	172:20;214:24;
42:24;85:21;	making (16)
163:12;182:22;	11:18;12:6;20:2
195:14,20	42:8;72:6;83:18
lower (8)	101:13;103:22;
39:14;61:12;	132:23;167:16;
139:11,18;151:1;	176:20;183:3;19
161:25;187:20,23	217:24;238:11
lowering (4)	male (1)
49:18;139:23;	117:17
150.1.017.5	14 (4)
150:1:217:5	malign (1)
150:1;217:5 lowest (1)	malign (1) 12.6
lowest (1)	12:6
lowest (1) 250:8	12:6 mammal (2)
lowest (1) 250:8 luck (1)	12:6 mammal (2) 152:9,10
lowest (1) 250:8 luck (1) 239:10	12:6 mammal (2) 152:9,10 mammalian (1)
lowest (1) 250:8 luck (1) 239:10 Luke (11)	12:6 mammal (2) 152:9,10
lowest (1) 250:8 luck (1) 239:10 Luke (11)	12:6 mammal (2) 152:9,10 mammalian (1) 152:11
lowest (1) 250:8 luck (1) 239:10 Luke (11) 123:17;127:19;	12:6 mammal (2) 152:9,10 mammalian (1) 152:11 man (1)
lowest (1) 250:8 luck (1) 239:10 Luke (11) 123:17;127:19; 135:8,14,25;136:2;	12:6 mammal (2) 152:9,10 mammalian (1) 152:11 man (1) 45:3
lowest (1) 250:8 luck (1) 239:10 Luke (11) 123:17;127:19; 135:8,14,25;136:2; 138:1,7;139:6,8;	12:6 mammal (2) 152:9,10 mammalian (1) 152:11 man (1) 45:3 manage (6)
lowest (1) 250:8 luck (1) 239:10 Luke (11) 123:17;127:19; 135:8,14,25;136:2; 138:1,7;139:6,8; 140:8	12:6 mammal (2) 152:9,10 mammalian (1) 152:11 man (1) 45:3 manage (6) 22:10;32:25;13
lowest (1) 250:8 luck (1) 239:10 Luke (11) 123:17;127:19; 135:8,14,25;136:2; 138:1,7;139:6,8; 140:8 lumped (1)	12:6 mammal (2) 152:9,10 mammalian (1) 152:11 man (1) 45:3 manage (6) 22:10;32:25;13 197:19,23;216:
lowest (1) 250:8 luck (1) 239:10 Luke (11) 123:17;127:19; 135:8,14,25;136:2; 138:1,7;139:6,8; 140:8	12:6 mammal (2) 152:9,10 mammalian (1) 152:11 man (1) 45:3 manage (6) 22:10;32:25;13 197:19,23;216: manageable (1)
lowest (1) 250:8 luck (1) 239:10 Luke (11) 123:17;127:19; 135:8,14,25;136:2; 138:1,7;139:6,8; 140:8 lumped (1) 175:14 lungworms (1)	12:6 mammal (2) 152:9,10 mammalian (1) 152:11 man (1) 45:3 manage (6) 22:10;32:25;13 197:19,23;216:
lowest (1) 250:8 luck (1) 239:10 Luke (11) 123:17;127:19; 135:8,14,25;136:2; 138:1,7;139:6,8; 140:8 lumped (1) 175:14 lungworms (1)	12:6 mammal (2) 152:9,10 mammalian (1) 152:11 man (1) 45:3 manage (6) 22:10;32:25;13 197:19,23;216: manageable (1) 174:4
lowest (1) 250:8 luck (1) 239:10 Luke (11) 123:17;127:19; 135:8,14,25;136:2; 138:1,7;139:6,8; 140:8 lumped (1) 175:14 lungworms (1) 69:2	12:6 mammal (2) 152:9,10 mammalian (1) 152:11 man (1) 45:3 manage (6) 22:10;32:25;13 197:19,23;216: manageable (1) 174:4 managed (1)
lowest (1) 250:8 luck (1) 239:10 Luke (11) 123:17;127:19; 135:8,14,25;136:2; 138:1,7;139:6,8; 140:8 lumped (1) 175:14 lungworms (1) 69:2 Lynn (7)	12:6 mammal (2) 152:9,10 mammalian (1) 152:11 man (1) 45:3 manage (6) 22:10;32:25;13 197:19,23;216: manageable (1) 174:4 managed (1) 203:13
lowest (1) 250:8 luck (1) 239:10 Luke (11) 123:17;127:19; 135:8,14,25;136:2; 138:1,7;139:6,8; 140:8 lumped (1) 175:14 lungworms (1) 69:2 Lynn (7) 101:5,5,10;103:16,	12:6 mammal (2) 152:9,10 mammalian (1) 152:11 man (1) 45:3 manage (6) 22:10;32:25;13 197:19,23;216: manageable (1) 174:4 managed (1) 203:13 management (9)
lowest (1) 250:8 luck (1) 239:10 Luke (11) 123:17;127:19; 135:8,14,25;136:2; 138:1,7;139:6,8; 140:8 lumped (1) 175:14 lungworms (1) 69:2 Lynn (7) 101:5,5,10;103:16, 18;105:7;106:11	12:6 mammal (2) 152:9,10 mammalian (1) 152:11 man (1) 45:3 manage (6) 22:10;32:25;13 197:19,23;216: manageable (1) 174:4 managed (1) 203:13 management (9) 33:22,25;68:13
lowest (1) 250:8 luck (1) 239:10 Luke (11) 123:17;127:19; 135:8,14,25;136:2; 138:1,7;139:6,8; 140:8 lumped (1) 175:14 lungworms (1) 69:2 Lynn (7) 101:5,5,10;103:16, 18;105:7;106:11 lysine (4)	12:6 mammal (2) 152:9,10 mammalian (1) 152:11 man (1) 45:3 manage (6) 22:10;32:25;13 197:19,23;216: manageable (1) 174:4 managed (1) 203:13 management (9) 33:22,25;68:13 78:7;191:21;20
lowest (1) 250:8 luck (1) 239:10 Luke (11) 123:17;127:19; 135:8,14,25;136:2; 138:1,7;139:6,8; 140:8 lumped (1) 175:14 lungworms (1) 69:2 Lynn (7) 101:5,5,10;103:16, 18;105:7;106:11	12:6 mammal (2) 152:9,10 mammalian (1) 152:11 man (1) 45:3 manage (6) 22:10;32:25;13 197:19,23;216: manageable (1) 174:4 managed (1) 203:13 management (9) 33:22,25;68:13
lowest (1) 250:8 luck (1) 239:10 Luke (11) 123:17;127:19; 135:8,14,25;136:2; 138:1,7;139:6,8; 140:8 lumped (1) 175:14 lungworms (1) 69:2 Lynn (7) 101:5,5,10;103:16, 18;105:7;106:11 lysine (4)	12:6 mammal (2) 152:9,10 mammalian (1) 152:11 man (1) 45:3 manage (6) 22:10;32:25;13 197:19,23;216: manageable (1) 174:4 managed (1) 203:13 management (9) 33:22,25;68:13 78:7;191:21;20 216:19;256:15
lowest (1) 250:8 luck (1) 239:10 Luke (11) 123:17;127:19; 135:8,14,25;136:2; 138:1,7;139:6,8; 140:8 lumped (1) 175:14 lungworms (1) 69:2 Lynn (7) 101:5,5,10;103:16, 18;105:7;106:11 lysine (4) 149:7,10,14,21	12:6 mammal (2) 152:9,10 mammalian (1) 152:11 man (1) 45:3 manage (6) 22:10;32:25;13 197:19,23;216: manageable (1) 174:4 managed (1) 203:13 management (9) 33:22,25;68:13 78:7;191:21;20 216:19;256:15 Manager (4)
lowest (1) 250:8 luck (1) 239:10 Luke (11) 123:17;127:19; 135:8,14,25;136:2; 138:1,7;139:6,8; 140:8 lumped (1) 175:14 lungworms (1) 69:2 Lynn (7) 101:5,5,10;103:16, 18;105:7;106:11 lysine (4)	12:6 mammal (2) 152:9,10 mammalian (1) 152:11 man (1) 45:3 manage (6) 22:10;32:25;13 197:19,23;216: manageable (1) 174:4 managed (1) 203:13 management (9) 33:22,25;68:13 78:7;191:21;20 216:19;256:15 Manager (4) 7:16;123:24;
lowest (1) 250:8 luck (1) 239:10 Luke (11) 123:17;127:19; 135:8,14,25;136:2; 138:1,7;139:6,8; 140:8 lumped (1) 175:14 lungworms (1) 69:2 Lynn (7) 101:5,5,10;103:16, 18;105:7;106:11 lysine (4) 149:7,10,14,21 M	12:6 mammal (2) 152:9,10 mammalian (1) 152:11 man (1) 45:3 manage (6) 22:10;32:25;13 197:19,23;216: manageable (1) 174:4 managed (1) 203:13 management (9) 33:22,25;68:13 78:7;191:21;20 216:19;256:15 Manager (4) 7:16;123:24; 216:17,17
lowest (1) 250:8 luck (1) 239:10 Luke (11) 123:17;127:19; 135:8,14,25;136:2; 138:1,7;139:6,8; 140:8 lumped (1) 175:14 lungworms (1) 69:2 Lynn (7) 101:5,5,10;103:16, 18;105:7;106:11 lysine (4) 149:7,10,14,21 M machines (1)	12:6 mammal (2) 152:9,10 mammalian (1) 152:11 man (1) 45:3 manage (6) 22:10;32:25;13 197:19,23;216: manageable (1) 174:4 managed (1) 203:13 management (9) 33:22,25;68:13 78:7;191:21;20 216:19;256:15 Manager (4) 7:16;123:24; 216:17,17 managing (2)
lowest (1) 250:8 luck (1) 239:10 Luke (11) 123:17;127:19; 135:8,14,25;136:2; 138:1,7;139:6,8; 140:8 lumped (1) 175:14 lungworms (1) 69:2 Lynn (7) 101:5,5,10;103:16, 18;105:7;106:11 lysine (4) 149:7,10,14,21 M machines (1) 47:10	12:6 mammal (2) 152:9,10 mammalian (1) 152:11 man (1) 45:3 manage (6) 22:10;32:25;13 197:19,23;216: manageable (1) 174:4 managed (1) 203:13 management (9) 33:22,25;68:13 78:7;191:21;20 216:19;256:15 Manager (4) 7:16;123:24; 216:17,17 managing (2) 197:20;200:16
lowest (1) 250:8 luck (1) 239:10 Luke (11) 123:17;127:19; 135:8,14,25;136:2; 138:1,7;139:6,8; 140:8 lumped (1) 175:14 lungworms (1) 69:2 Lynn (7) 101:5,5,10;103:16, 18;105:7;106:11 lysine (4) 149:7,10,14,21 M machines (1) 47:10 mad (1)	12:6 mammal (2) 152:9,10 mammalian (1) 152:11 man (1) 45:3 manage (6) 22:10;32:25;13 197:19,23;216: manageable (1) 174:4 managed (1) 203:13 management (9) 33:22,25;68:13 78:7;191:21;20 216:19;256:15 Manager (4) 7:16;123:24; 216:17,17 managing (2) 197:20;200:16 mandate (1)
lowest (1) 250:8 luck (1) 239:10 Luke (11) 123:17;127:19; 135:8,14,25;136:2; 138:1,7;139:6,8; 140:8 lumped (1) 175:14 lungworms (1) 69:2 Lynn (7) 101:5,5,10;103:16, 18;105:7;106:11 lysine (4) 149:7,10,14,21 M machines (1) 47:10	12:6 mammal (2) 152:9,10 mammalian (1) 152:11 man (1) 45:3 manage (6) 22:10;32:25;13 197:19,23;216: manageable (1) 174:4 managed (1) 203:13 management (9) 33:22,25;68:13 78:7;191:21;20 216:19;256:15 Manager (4) 7:16;123:24; 216:17,17 managing (2) 197:20;200:16
lowest (1) 250:8 luck (1) 239:10 Luke (11) 123:17;127:19; 135:8,14,25;136:2; 138:1,7;139:6,8; 140:8 lumped (1) 175:14 lungworms (1) 69:2 Lynn (7) 101:5,5,10;103:16, 18;105:7;106:11 lysine (4) 149:7,10,14,21 M machines (1) 47:10 mad (1) 194:11	12:6 mammal (2) 152:9,10 mammalian (1) 152:11 man (1) 45:3 manage (6) 22:10;32:25;13 197:19,23;216: manageable (1) 174:4 managed (1) 203:13 management (9) 33:22,25;68:13 78:7;191:21;20 216:19;256:15 Manager (4) 7:16;123:24; 216:17,17 managing (2) 197:20;200:16 mandate (1) 168:22
lowest (1) 250:8 luck (1) 239:10 Luke (11) 123:17;127:19; 135:8,14,25;136:2; 138:1,7;139:6,8; 140:8 lumped (1) 175:14 lungworms (1) 69:2 Lynn (7) 101:5,5,10;103:16, 18;105:7;106:11 lysine (4) 149:7,10,14,21 M machines (1) 47:10 mad (1) 194:11 Madison (2)	12:6 mammal (2) 152:9,10 mammalian (1) 152:11 man (1) 45:3 manage (6) 22:10;32:25;13 197:19,23;216: manageable (1) 174:4 managed (1) 203:13 management (9) 33:22,25;68:13 78:7;191:21;20 216:19;256:15 Manager (4) 7:16;123:24; 216:17,17 managing (2) 197:20;200:16 mandate (1) 168:22 mandated (1)
lowest (1) 250:8 luck (1) 239:10 Luke (11) 123:17;127:19; 135:8,14,25;136:2; 138:1,7;139:6,8; 140:8 lumped (1) 175:14 lungworms (1) 69:2 Lynn (7) 101:5,5,10;103:16, 18;105:7;106:11 lysine (4) 149:7,10,14,21 M machines (1) 47:10 mad (1) 194:11 Madison (2) 202:20;204:12	12:6 mammal (2) 152:9,10 mammalian (1) 152:11 man (1) 45:3 manage (6) 22:10;32:25;13 197:19,23;216: manageable (1) 174:4 managed (1) 203:13 management (9) 33:22,25;68:13 78:7;191:21;20 216:19;256:15 Manager (4) 7:16;123:24; 216:17,17 managing (2) 197:20;200:16 mandate (1) 168:22 mandated (1) 182:18
lowest (1) 250:8 luck (1) 239:10 Luke (11) 123:17;127:19; 135:8,14,25;136:2; 138:1,7;139:6,8; 140:8 lumped (1) 175:14 lungworms (1) 69:2 Lynn (7) 101:5,5,10;103:16, 18;105:7;106:11 lysine (4) 149:7,10,14,21 M machines (1) 47:10 mad (1) 194:11 Madison (2) 202:20;204:12 magnesium (1)	12:6 mammal (2) 152:9,10 mammalian (1) 152:11 man (1) 45:3 manage (6) 22:10;32:25;13 197:19,23;216: manageable (1) 174:4 managed (1) 203:13 management (9) 33:22,25;68:13 78:7;191:21;20 216:19;256:15 Manager (4) 7:16;123:24; 216:17,17 managing (2) 197:20;200:16 mandate (1) 168:22 mandated (1) 182:18 mandates (2)
lowest (1) 250:8 luck (1) 239:10 Luke (11) 123:17;127:19; 135:8,14,25;136:2; 138:1,7;139:6,8; 140:8 lumped (1) 175:14 lungworms (1) 69:2 Lynn (7) 101:5,5,10;103:16, 18;105:7;106:11 lysine (4) 149:7,10,14,21 M machines (1) 47:10 mad (1) 194:11 Madison (2) 202:20;204:12 magnesium (1) 68:7	12:6 mammal (2) 152:9,10 mammalian (1) 152:11 man (1) 45:3 manage (6) 22:10;32:25;13 197:19,23;216: manageable (1) 174:4 managed (1) 203:13 management (9) 33:22,25;68:13 78:7;191:21;20 216:19;256:15 Manager (4) 7:16;123:24; 216:17,17 managing (2) 197:20;200:16 mandate (1) 168:22 mandated (1) 182:18 mandates (2) 108:4,13
lowest (1) 250:8 luck (1) 239:10 Luke (11) 123:17;127:19; 135:8,14,25;136:2; 138:1,7;139:6,8; 140:8 lumped (1) 175:14 lungworms (1) 69:2 Lynn (7) 101:5,5,10;103:16, 18;105:7;106:11 lysine (4) 149:7,10,14,21 M machines (1) 47:10 mad (1) 194:11 Madison (2) 202:20;204:12 magnesium (1) 68:7 main (5)	12:6 mammal (2) 152:9,10 mammalian (1) 152:11 man (1) 45:3 manage (6) 22:10;32:25;13 197:19,23;216: manageable (1) 174:4 managed (1) 203:13 management (9) 33:22,25;68:13 78:7;191:21;20 216:19;256:15 Manager (4) 7:16;123:24; 216:17,17 managing (2) 197:20;200:16 mandate (1) 168:22 mandated (1) 182:18 mandates (2) 108:4,13 mandatory (3)
lowest (1) 250:8 luck (1) 239:10 Luke (11) 123:17;127:19; 135:8,14,25;136:2; 138:1,7;139:6,8; 140:8 lumped (1) 175:14 lungworms (1) 69:2 Lynn (7) 101:5,5,10;103:16, 18;105:7;106:11 lysine (4) 149:7,10,14,21 M machines (1) 47:10 mad (1) 194:11 Madison (2) 202:20;204:12 magnesium (1) 68:7	12:6 mammal (2) 152:9,10 mammalian (1) 152:11 man (1) 45:3 manage (6) 22:10;32:25;13 197:19,23;216: manageable (1) 174:4 managed (1) 203:13 management (9) 33:22,25;68:13 78:7;191:21;20 216:19;256:15 Manager (4) 7:16;123:24; 216:17,17 managing (2) 197:20;200:16 mandate (1) 168:22 mandated (1) 182:18 mandates (2) 108:4,13

		_
:1	manner (4)	
	19:21;47:19;	
	115:19;135:4 Manual (4)	
:16;129:3	8:15;11:25;62:17;	
))	172:4	
22;39:9;	manufacture (2)	
55:23;	170:4;171:23	
8:17;169:2;	manufactured (2)	
(1)	175:3;199:19 manufacturer (3)	
(1)	31:10,13;252:4	
	manufacturers (2)	
3;51:19;	141:5;239:25	
170:14;	manufacturing (1)	
19;228:24;	242:20	
	manure (6) 33:1;81:11;195:2,3;	
234:23	197:6;209:4	
237.23	manures (1)	
5;139:4;	195:12	
4:24;223:7	many (48)	
	28:10,12;29:7,23;	1
5;20:2;	36:17;37:9,10;38:13;	
83:18;88:4;	41:14;59:22;60:1;	1
3:22; 7:16;	61:24;62:24;80:6; 83:19;84:2;86:7;	I
3:3;195:24;	90:12;91:16,17;	-
8:11	94:18;100:15,16;	
	104:25;111:7;112:12,	
	12;127:1,23;129:15;	1
	136:22;139:22;143:1;	
	144:13,24;161:23; 169:3;186:9;216:23;	
	218:2,24;220:17;	I
(1)	222:13;229:24;	-
(-)	233:18;236:10;	
	247:16;248:21	
	mapping (1)	
5.121.5.	98:4	
25;131:5; ;216:25	margin (1) 85:22	
(1)	Maria (6)	
(-)	147:14;154:1;	
)	157:3,5;158:21;	I
(()	159:12	
t (9)	marine (1)	I
58:13,14; 21;203:17;	131:11 Mark (22)	
6:15	75:20;82:20;87:2,3,	
)	8;88:25;89:3,10;91:3;	
24;	92:15;94:4;95:8,24;	ľ
	96:3,11,15;98:13,16;	
	99:17,19;100:21,23	1
0:16	market (111) 17:18;19:25;20:3;	
	30:6,25;34:11,23;	
l)	40:16;54:13,17,21;	I
	57:25;58:2,5;59:9,19;	
)	60:19,24;64:9;65:8;	1
	72:16;78:24;83:8,13,	
(3) •2 10	17;98:23;103:12;	1
:2,19	105:9;114:2;119:17;	

120:1,9,19,20;121:1; match (2) 124:1;125:10;126:7, 8;128:14,23;132:13, 22,24;133:13,15; 134:2,3;136:12,17,18; 137:3,5,6,9;141:2,11, 22,22;143:6,6;144:22, 23:147:6:154:14; 156:16,18;157:25; 158:14,14,14;164:5; 165:15;182:14,25; 183:3,7,10:185:1; 189:15;190:12,15; 192:7,14;193:14; 200:9,11,12;211:21; 212:20;216:14;217:5, 9;218:15;220:16; 221:24;223:14;224:5, 6;233:21;234:10,22; 248:11,20,23,24; 249:3,14,19;251:14; 255:25 market-based (1) 219:17 marketed (2) 142:1,3 marketing (7) 40:24;73:15;88:23; 145:18,23;167:22; 187:21 marketplace (8) 29:14:30:6:41:24: 88:12;125:24;126:9; 166:1;184:6 markets (27) 19:5;54:14;56:18; 59:5:60:15:77:5: 78:25;83:9;134:4; 136:8,11;141:3; 142:1,6,9;146:18; 154:13:162:22:165:8: 191:23;201:3;218:12; 221:2,3;223:18; 248:7,10 Mark's (1) 96:12 Marni (11) 101:6;106:17; 107:12,16;110:6,8; 113:13,19;115:4; 116:12;118:4 Mary (1) 13:22 mass (7) 84:11,19;110:21; 119:19;147:5;201:9; 235:1 massive (1) 128:21 mastering (1) 220:12 master's (1) 225:9

26:19:120:12 matching (2) 105:22;110:23 material (10) 67:18;105:19; 169:19;170:17; 171:13;175:19; 176:21;240:10;245:9, 19 materials (27) 33:24:46:19:67:13; 68:3,4,19;168:7,10, 12;169:10,20,24; 170:5;171:13;172:19, 25;173:3,9,12;174:16, 18,19,23;175:25; 178:1;180:21;243:10 math (2) 95:13;186:19 matrix (1) 225:23 matrix-dependent (1) 226:18 mats (1) 66:7 Matt (21) 27:22;30:15;46:6,8, 9,13,16,18;48:15,19; 50:15:118:15:123:6. 16,16,20,24;125:20, 21,23;127:17 matter (10) 6:2;39:21;45:5; 56:7;90:3;157:11; 186:8;193:1;217:10; 244:19 Matthew (10) 247:3,6;253:25; 254:3,4,11:255:17,18, 21;256:2 mature (1) 69:3 matured (1) 200:12 maximize (1) 64:21 maximum (1) 188:2 may (30) 6:17;9:7;15:4,16; 37:18,18,18,25;38:4; 45:13;91:23;96:7; 106:14;109:20;112:6, 6;125:19;147:3; 178:20;196:23; 215:14;223:3;227:3; 237:10;240:18; 241:22;243:10,10; 244:4,5 maybe (33) 13:19,23;19:23;

33:25;38:1,2;44:14;

- Vol. 2 April 25, 2024

Spring 2024 Meeting	T	I	1	April 25, 2024
10 5 52 10 14 76 22	207.14	106 5 112 12 10		226.12
49:5;53:10,14;76:22;	207:14	106:5;113:12,19;	mentioning (2)	226:13
79:1;82:4,20;147:4;	Mechanical (1)	114:11;115:4,9;	183:17;207:2	microdoses (1)
156:11;160:19;162:3;	122:16	116:12;117:24;	Merck (2)	195:14
166:17;171:8;173:12;	mechanically (1)	121:13,23;123:11;	34:10,21	micronutrients (6)
180:11,23,24;187:23;	171:9	125:23;126:22;	merely (1)	192:1;194:24;
188:20;196:5;222:6;	media (3)	132:15;134:11;135:6,	120:24	195:7,13;210:2,4
224:13;235:17;239:1;	89:21;155:11;	10;138:4;139:8,20;	Merrill (1)	microorganisms (2)
243:5;250:12	231:24	140:2,8;142:19;	14:4	181:6,9
McNeil (11)	medical (1)	143:11;145:15;146:9;	Merry (11)	microphone (2)
191:6,11,14,16,16;	68:8	150:8,17;151:4,7,24;	12:20;13:22,23,24;	13:1;107:6
193:24;195:1;196:17;	medication (1)	152:9,16,18;153:21;	14:2;16:3,6,19;18:23;	mics (2)
197:4;198:16,18	32:8	158:21;159:4,10,17;	20:20,24	8:24;13:8
meal (39)	meet (14)	161:14;162:12,20;	message (2)	middle (1)
119:14,20,22;	77:22;104:2,3,6;	164:19;166:21;	89:16;92:23	80:22
120:4,6,9,10,15,21,	137:13;149:12;	172:11;173:7,22;	messages (1)	middlemen (1)
			8:18	73:24
24;121:4,6,7,15,19,	151:15;171:15;	174:7,11;175:16;		
20;122:12,13,14,16,	176:11;225:14;231:3,	176:13,15,18;177:8,	messaging (2)	mid-scale (1)
18,20;136:14;148:24,	23;242:16;243:14	14,18;179:7,14;	91:6;116:15	160:3
24,25;152:5;153:6,8;	meeting (25)	181:25;182:5;183:14;	met (3)	midsize (1)
211:12,14;212:1,5;	4:12,15;5:25;6:5,	184:3;187:1;189:19,	167:7;169:2;231:19	209:2
213:18,18;249:19;	10,11;8:8,9,12;11:4;	25;190:6,8,25;	metaphor (2)	midst (1)
250:5;252:12,17	46:5;70:21;109:23;	193:18;194:19,22;	113:22;115:14	22:3
mean (55)	134:19;137:7,21;	196:15,22;198:1;	methionine (33)	Midwest (9)
19:5;20:4;21:16;	148:18;166:6;169:15;	201:22;202:8;205:7,	35:11,24,25;36:1,1,	86:4;96:20;105:19;
37:4;40:9;45:7;49:23;	198:9;204:3;207:24;	20,22;206:21,23;	6;37:12;46:25;47:20,	106:3;124:2;182:20;
60:8;61:14,23;62:1,4,	240:12;256:18,19	207:18;209:4;214:3;	24;48:4,8,24;49:1;	184:19;188:21;
25;63:10,11;74:23;	meetings (3)	215:21;218:23;	148:9,11,12,13,15,23;	247:12
78:11;80:13;81:5,22;	8:10,12;169:11	221:10;222:1,5;	149:2,4,9,12,21;	might (24)
91:25;99:1;112:11,	meeting's (1)	223:2,5,15;224:9;	151:9,10,11,16,16,20;	6:22;12:6;35:2;
11;114:13;133:2,4;	110:2	227:7,12;230:20;	152:1,14	36:11;37:17;38:10;
134:18;143:7;145:1,	meets (1)	233:12;235:10;237:6,	method (4)	93:2;102:19;107:2;
18;146:1;152:4,4;	168:20	16,20;238:9,18,22;	169:20;178:24,25;	108:5;115:6;152:2;
158:10;169:1;173:15;	Megan (3)	239:9,16;242:6,22,24;	226:12	161:23;170:7;172:6;
174:24,25;177:25;	230:13,14,15	243:3,8,19;244:9,14;	methodologies (1)	173:19;175:3;176:10;
180:7,19;188:3;	meloxicam (13)	245:6;246:7,16;	121:16	180:10;181:24;183:6,
195:3;196:19;197:18;	31:9;32:7,12,13,16,	249:13;250:9,20;	methodology (2)	6;188:2;223:11
207:20;209:14;	17,18;38:17;67:15,16,	251:3,6;252:10,25;	121:25;226:18	miles (5)
223:13;237:17,25;	20,22,25	255:20	methods (18)	78:25;80:5,6;
239:7;244:19;245:14;	MEMBER (232)	members (23)	50:5;170:4,16,24;	144:13;197:9
250:14	9:10,13,16,21,24;	4:8;5:4;8:22;11:7;	171:20,23;172:13,18,	milk (4)
meaningful (2)	10:2,5,8,11,14,17;	12:7,9,16,18;17:6,10;	24;174:15;175:7;	133:7,10;134:3;
95:2,3	16:5,16,18;18:17,23;	22:24;27:25;67:9;	177:1;180:19;181:6,	238:2
means (6)	19:7,16,22,24;20:2,5,	107:24;109:25;	10,12,12;231:15	milking (2)
90:1;95:20;126:12;	11,15,20;21:4;23:1,	112:18,21;116:25;	metric (6)	47:9,11
199:10;219:24;239:7	19;24:2,22;25:10,16,	128:2;191:5;230:25;	120:3,5,10;213:17,	mill (6)
meant (2)	18,22,25;26:4,7;	231:8;233:13	21,22	165:14;194:1,3,4,
88:21;209:9	30:21;32:22;33:16,	membership (4)	Mexico (4)	18;247:21
meantime (1)	18;35:1,7;38:6,12;	83:6,8;113:4,15	58:17;59:18;96:22;	milling (1)
196:6	40:17;41:10,16;	memo (1)	97:4	104:4
measurable (1)	43:13;48:18,25;49:7,	129:20	Meyer (3)	million (6)
219:14	10;50:3,8,11,13;53:2;	mentee (1)	208:18,22;210:20	102:16;207:22;
measure (3)	54:4,7;55:4,10,24;	26:2	mic (7)	242:16,18,25;243:1
155:6;199:16;	56:16;58:10,13,16,18,	mentioned (27)	7:1,7,15;8:21;11:8;	millions (2)
241:14	22;59:1;60:16;61:4;	7:22;8:11;17:12;	118:16;252:25	164:7;234:21
measures (3)	62:7,13;63:14;65:21;	78:18;83:12;90:6;	Michelle (10)	mills (7)
43:18;199:22;	66:11;69:8;70:8;	91:25;99:23;110:10;	7:19,22;8:11,21;	144:3;146:23;
234:12	72:13,24;73:6;74:3;	121:13;122:11;127:2,	11:11;12:15,22;34:1;	193:6,10,15,21;238:8
measuring (1)	75:2,9;79:25;80:24;	4;139:2;146:19;	128:3;244:25	milo (1)
42:12	81:16;82:7;86:13,24;	165:7,10;172:23;	Michigan (2)	25:19
meat (10)	89:3,8,10;90:11;91:1,	174:17;187:13;198:7,	14:25;51:6	Milwaukee (6)
17:15,17;20:4;	3,23;92:10,13,15;	8;207:7;214:10;	microbial (1)	4:16;8:7;115:5,7;
90:20,21;203:2;	93:8;98:16;99:17;	220:18;242:14;	175:13	256:18,20
204:3,10;206:18;	103:18;105:3,7;	253:10	microbiological (1)	mind (13)
207.3,10,200.10,	105.10,105.5,7,	255.10	inter obiological (1)	

Burke Court Reporting & Transcription (973) 692-0660

- Vol. 2 April 25, 2024

Spring 2024 Meeting	Γ	Γ		April 25, 2024
73:9;89:24;92:13;	mitigating (1)	38:9,22,24;40:23;	110:24	202:8,10;205:4,7,20;
113:25;132:17;181:7;	206:9	42:14;44:15;52:22;	motivated (2)	202.8,10,205.4,7,20, 208:15;210:14;
184:5;186:5;210:8;	mitigation (2)	53:5,6,8,9,22,23;55:7;	248:8,10	211:14;213:23;
229:23;237:9,12;	32:9;38:18	56:19;61:12,24;62:2;	move (22)	214:20,22;215:25;
243:12	mix (1)	72:17;73:8;74:24;	26:21;28:17;66:20;	214.20,22,215.25, 218:20;219:3;221:8;
Mindee (9)	215:4	75:1;78:6,24;79:23;	75:19;79:19;101:5;	222:1;224:9,14;
9:23,25;20:19;	Mm-hmm (5)	80:1,8,8,8,23;81:23,	110:23;117:15;	227:4,15;230:5,10;
115:15;116:1,2,11;	55:6;202:9;222:3;	24;82:12;83:16,25;	118:23;142:25;189:9;	232:23,24;233:3;
176:12;244:8	224:10;243:7	84:3,3;85:7;86:5;	192:15,17,21,22;	235:6,11,14;238:10,
mindful (1)	MOA (1)	87:12;88:22;90:14;	203:3;205:2;238:10;	12;239:18;242:3;
109:7	182:5	91:4;93:10;100:2;	239:11,12;241:16;	247:17,23;253:1,23;
minds (1)	model (3)	108:14;110:19;111:5,	256:10	255:21
117:11	56:4;200:14,21	12;116:3;125:3;	moved (1)	multi- (1)
mine (3)	modified (1)	12,110.3,123.3, 126:10,12;128:14;	192:24	145:3
38:15;78:4,9	171:8	120:10,12,128.14, 129:3;132:22,24;	movement (3)	multi-crops (1)
mined (1)	moisture (1)	129.3,132.22,24, 133:9;134:6,15;	66:5;105:11;160:23	42:7
195:24	71:19	138:9;139:21;144:2,	movements (1)	multinational (1)
mineral (4)	Moly (6)	12;146:22;149:23;	106:7	216:18
42:5,12;88:18;92:4	195:16,18,18,20,24;	150:24;155:22;160:8,	moves (1)	multiple (4)
42.5,12,00.10,92.4 minerals (4)	195.10,18,18,20,24, 196:7	8,24;162:14;164:19;	238:2	34:14;129:18;
35:13;42:13;68:9;	molybdenum (1)	166:15;167:16,17;	moving (17)	201:3:255:4
157:14	195:16	171:21;172:14;	14:8;24:24;30:4;	multistage (1)
minimal (1)	mom (4)	171:21;172:14; 173:16;174:20;	42:15;45:3;66:9;	219:12
214:10	14:9;15:12;21:14;	175:22;177:2,10,20;		mummify (1)
minimize (3)	199:13	178:8,14;180:17,17,	105:12,19,20;108:20; 126:3;130:20;142:20;	245:24
31:4;33:14;203:15	moment (3)	23,24;181:1;182:19;	120.3,130.20,142.20, 145:11,20;198:24;	
minimum (4)	4:5;9:6;221:24	184:1;186:20;188:7,	256:16	mummy (1) 158:10
217:14,22;218:6;	4.5,9.0,221.24 Monday (2)	24;189:9,9,20;	moxidectin (3)	municipally (1)
253:21	256:17,24	193:19;194:4;195:2;	31:1;38:17;68:12	169:21
mining (4)	money (21)	201:3,16;202:6;	Much (150)	must (15)
178:1,4,9;179:8	32:3;43:8,9,10;	203:8,16,22,23;	13:10;15:17,23;	12:2;15:25;29:9;
Minnesota (2)	61:24;71:22;104:13;	203.8,10,22,23, 204:14,18;206:2,2,12,	16:9,19;18:9;20:24;	31:3;108:20;109:4,6,
216:7;254:11	133:9;142:20;145:17;	16,18;207:2,2,7;	22:20,22;23:1;24:2;	9,12;137:18;157:10;
minute (1)	158:15;161:6;162:9,	208:3,9,10,11;209:22;	25:3;26:10;30:13;	168:21;217:7;231:12;
12:15	10;163:8;252:4,4,5,5,	210:7;213:22;214:12;	33:18;34:7;38:6;	233:22
minutes (7)	13,14	220:23;221:18;	40:21;50:15;56:10;	mute (8)
7:10;22:23;76:18;	monitor (2)	222:21,21;223:25;	60:14;61:2,24;62:6,	4:21,21;6:18;7:4,5;
95:20;127:14;236:23;	93:22;244:18	228:13;232:8,14;	17;64:7;65:15,21;	50:19;56:24;57:5
256:14	monopolistic (1)	237:9;238:16;240:14;	69:6;72:9;73:21;74:3;	muted (3)
Mirenda's (1)	128:22	245:3;248:5,21,24;	75:3,5;77:6,17;79:25;	50:18;106:25;
11:5	Montana (24)	251:16,22	80:24;82:18;83:16;	181:24
mirror (1)	10:11;65:7;70:22;	morning (26)	84:4,8;85:9;86:24,25;	Myer (2)
186:4	71:14,15,18,21,23;	9:1,2,4,5,13,14,21,	89:5;90:25;91:3;94:2;	198:25;202:13
miss (1)	74:17,20;87:9;90:2,2,	22,24,25;10:2,3,5,6,8,	95:8,22;98:1,13;	myself (2)
72:6	19;140:23;141:1;	11,12,14,15,17;16:5,	100:3,22;103:19,25;	29:24:35:8
missed (7)	143:21,21;144:11;	6;26:12;27:5,25;	105:4;106:8,10;	
23:6;44:12;70:4;	146:24;164:23;182:5,	95:10	107:11;115:13;	Ν
82:21;155:19;184:23;	6,6	most (32)	116:12;118:2;123:3;	
222:6	month (3)	28:10;36:10;43:4,5;	124:6;125:20;127:17;	nail (3)
missing (2)	104:14;162:16;	44:20;49:20;53:21;	130:8,9:132:9,15;	34:7;35:3;190:17
61:13;190:16	188:4	60:3;64:13;68:14;	138:1;139:8;142:16;	name (68)
mission (2)	months (5)	69:15;78:1,4,9,25;	143:12,13;147:10;	6:15;7:2,8;12:13;
168:7;219:19	59:24;99:2;117:16;	91:10;102:10,13;	150:2,8;151:18;	13:13,24;21:15,24;
Missouri (1)	158:10;196:5	105:15,16;106:2;	153:22,24;155:25;	27:23;30:18;46:16,
194:1	MOPC (1)	128:10;133:25;	157:2;158:8,17;	18;51:3;57:11,12;
mistake (1)	146:24	136:10;148:9;168:25;	159:1,11;162:20;	63:21,23;67:2,3,5;
31:10	moratorium (1)	206:4;211:13;221:15;	164:24;167:16;	70:16;75:24;82:23;
Mitchell (17)	29:17	225:20;229:16;	170:18,22;173:1;	83:1;87:4,8,24;96:13;
135:22;140:18;	more (161)	237:24	176:13,18,21;181:7;	101:8,10;106:23;
143:15;147:13,15,17,	15:18,20;19:8;	mostly (6)	182:15;183:12;184:7;	123:20,24;127:21,23;
19,22;148:1,1;150:16,	20:18;23:3,7;24:4,5;	21:15;77:12;91:13;	185:11,19,24;186:23;	131:14;135:9,11,25;
20;151:14;152:3,10;	25:21,24;30:5;31:24;	101:21;130:5;184:19	193:2,2;196:22;	136:2;140:19,21;
153:3,24	32:15;33:1,8,20;37:4;	motion (1)	198:17,23;201:20,23;	143:18;147:24;148:1;

- Vol. 2 April 25, 2024

spring 2021 Miceting				p
154:3;168:5;182:3;	nearly (4)	104:2,3;108:22;	183:24	67:20
184:15,17;191:12,16;	39:11;120:11;	131:25;141:20;	nice (4)	non-synthetic (4)
199:1;208:20;211:5;	129:12;179:8	144:19;146:25;166:7,	8:4;79:14;143:9;	157:17;240:19,23;
	,		146:13	244:10
216:24;219:11;225:5; 230:16,18;233:8,10;	neat (2)	12;167:7;186:6; 200:2,25;201:6;		
	100:14;209:6		niche (1)	non-toxic (1)
235:18;239:21;247:7;	Nebraska (8)	206:13;208:7,13;	28:16	157:15
254:8,10;256:8	96:16;97:24;99:11;	209:4,13;213:25;	nickel (1)	noodle (1)
names (2)	100:5;154:6,7;	217:13;218:10;	251:24	40:18
12:2;193:25	156:23;164:22	248:12	Nidlinger (8)	NOP (41)
Nandwani (5)	necessarily (3)	negative (1)	118:15;123:6,16,	4:24;6:11;10:25;
10:4,5;89:10;90:11;	52:16;180:14;	203:15	22,24;126:6,25;127:5	11:7;28:1,25;29:9;
91:1	223:13	negatives (1)	Nigeria (2)	31:2,7,23;34:19;67:7,
nascent (1)	necessary (4)	33:6	105:21;234:3	16;84:16;85:3,4,6;
204:5	47:20;218:9;	neighbor (1)	nimble (2)	108:18;116:5,17;
Nate (60)	219:22;223:24	163:2	117:15,22	124:22;128:3;129:23;
9:6,6,11;10:10;	need (110)	neighboring (1)	nine (1)	160:2;199:11,22,24;
18:22;22:25;25:24;	10:23;25:5;33:11,	141:1	185:17	200:15;201:16;212:8,
26:9;32:21;35:6;38:9,	14;34:12;35:3;36:16;	neighbors (7)	nitrate (2)	9;213:2;225:19;
11;48:17;61:3;65:20;	37:11,18;39:22;	56:14;78:5;80:3,13;	203:7;206:12	226:6;232:13,15,19;
69:7;74:2;79:24;82:8,	42:25;44:3,6;45:21;	102:22;195:11;255:2	nitrates (1)	236:10,18;238:13;
11,14;86:12;91:2;	46:1;48:7,12;54:2;	net (1)	206:15	240:7
94:7;103:17;105:8;	55:21;59:9;60:14;	248:9	nitrite (1)	Nope (1)
121:11,12;132:14;	62:25;65:16,16;	network (2)	204:20	107:2
139:7;142:18;145:14;	68:13,15;69:11;73:2;	228:2;229:22	nitrogen (8)	NOP's (1)
150:7;151:6;159:3;	76:21;77:14;79:7,7;	new (29)	64:4;151:1;203:8,9,	129:20
162:19;163:17;	81:19;85:21;93:4;	17:1;29:17;58:17;	14,21;209:4;240:14	normal (2)
164:25;165:3,8;	96:8;108:10;112:1,	83:15,20;86:16;	nobody (2)	37:8;147:1
183:13;184:9;189:18;	11;113:12;115:2;	96:22;97:4;99:22;	74:22;192:8	normally (1)
190:7;193:17;194:21;	124:7;125:10;128:10;	104:9;108:4;109:17;	Nobody's (1)	212:19
			192:6	
196:24;205:21; 218:22;221:9;227:5,	131:14,15,21,22,23;	111:7;125:9;128:10;	nodding (1)	North-Central (1) 140:23
	133:17;134:6,18;	129:17,24;132:6,7;		
6,14;235:8,9;245:4;	135:2,2;137:8,14;	136:3;154:11,24;	114:19	Northeast (6)
251:4;253:6;255:19,	141:6,13;142:6,11;	155:5;156:15;169:2;	non- (4)	83:2;133:8,10;
19	143:3,9;144:9;155:3,	190:10;204:21;	47:23;52:7;67:23;	138:10;143:21;
nation (2)	20,22;163:10;164:4,	208:13;222:19	149:21	144:11
71:7;103:8	10;166:16;171:9,15;	newer (1)	non-CMO (1)	Northwest (1)
National (26)	172:17;174:24;	53:21	52:13	76:2
7:16,21;8:12;11:9;	180:23;182:16;	Newkirk (8)	noncompliances (1)	NOSB (33)
29:5;31:11;32:11,19;	186:12;188:7;199:15,	219:9;225:1,4,7,7;	43:21	8:9;12:9,17;14:10;
34:24;47:2;67:16;	17,22;200:7,8,21;	227:11,14,17	non-compliances (1)	15:15;18:24;28:1;
68:13;94:4;160:6,15;	201:1,9,16,19;203:21;	news (4)	130:5	30:21;31:7;57:16;
168:25;169:9;174:3;	204:8;205:16;206:17;	28:3;99:20;198:8;	none (6)	60:19;63:23;65:4;
177:23;178:10;	207:2,7,16;209:7;	208:16	19:25;20:1;77:5;	85:2;113:8;119:16;
180:21;182:7;211:18;	214:18,23;221:5;	next (56)	99:10;129:11;160:10	124:10,17;125:2,10;
230:24;232:2,5	233:15;234:8;235:4;	4:16;7:2;8:6;12:12;	non-GMO (10)	128:2;142:15;161:9;
nations (2)	241:8;245:8;247:14;	15:16;17:25;26:24;	53:19;86:22,22;	168:22;173:10;
228:23;229:7	248:3,13,21,24;249:4	33:3;50:16;56:25;	96:21;97:18;100:18;	202:16;230:24;
natural (16)	needed (21)	63:6,19;66:16;70:12;	120:16;127:7;185:13,	232:18;233:13;
36:14;37:6;49:5,6;	29:10;30:4;34:13,	75:10;82:19;95:23;	24	235:25;238:13;
68:16;87:16;90:24;	17;36:21;50:6;52:6;	96:2;101:2;110:25;	non-nutritional (1)	247:14;256:18
92:1,3;93:20;104:25;	55:3;84:5;90:15;	111:3,4;118:11,15,24;	42:11	NOSB's (2)
141:4;195:23;240:19,	109:20;124:4;154:11;	120:14;124:10;	non-organic (5)	168:12;207:20
23,25	156:24;203:16,21;	125:13;132:23;135:8,	48:4;73:19;90:15;	note (8)
naturally (2)	204:14,18;226:9,12;	21;136:22;143:14;	149:18;157:8	31:18;108:3;
223:19;240:20	247:22	148:5,16,19;149:14;	non-pesticide (1)	169:23;183:2;224:16;
nature (1)	needing (3)	153:25;162:16;	33:25	225:19;226:12,24
172:20	31:12;44:25;175:2	169:15;177:16;186:4;	non-recyclable (1)	noted (2)
NatureSweet (2)	needle (2)	191:6;202:13;205:12;	241:7	107:22;108:2
230:19,19	30:5;110:24	208:18;210:24;	non-reusable (1)	notes (2)
NCRS (1)	needs (34)	216:14;219:5;229:5;	241:7	15:14;148:18
22:4	28:21;31:2,5;32:12;	230:12;233:6;235:16;	non-routine (3)	notice (2)
near (3)	38:20;41:3;43:2;	236:21,24;239:19	31:5;33:12;34:14	163:18,19
41:18;83:10;126:7	45:20,21;52:7;74:23;	NFO (1)	non-steroidal (1)	noticed (1)
- , , - =	, <u>, , , , , , , , , , , , , , , , , , </u>			

138:13 obligation (1) noticing (1) 84:17 observation (1) 165:10 no-tilled (1) 181:8 97:19 observe (1) novel (1) 131:15 204:16 observed (2) nowhere (2) 206:1;216:19 80:22;126:7 obvious (4) NPEs (1) 62:8,13:209:11; 30:24 210:10 **NRC** (1) obviously (16) 42:19 11:17;43:20;61:17; NRCS (7) 62:3,19,25;78:13; 23:5;71:12;72:2,4; 84:9,15;122:19; 83:22;155:16;191:20 135:2;150:21;152:5, 7;216:9;251:16 NSFs (1) 126:23 occasionally (2) number (31) 102:8;153:5 6:18;13:21;26:19; occurred (1) 35:21,24;36:12; 217:25 37:17,21,23;39:18; occurring (2) 42:5,16,21,22;55:1; 153:11;240:20 118:20;119:1;123:8; occurs (2) 143:4;157:17;160:16; 33:11;153:5 162:10;163:22;180:7; oceans (1) 184:18;197:5,5; 219:13 OCIA (1) 213:19,25;222:10; 256:9 209:5 numbers (21) o'clock (1) 5:1:10:22:13:20; 4:10 26:17:37:5:69:24: O'Connor (9) 81:25;161:22;162:1, 70:12,15,19,22; 3,4,13;163:22;213:14, 72:18.25:73:12: 16:215:15,15,18; 74:14:75:8 **OEFFA**(4) 234:19;243:6;252:18 nursing (1) 46:19:48:19: 168:21:169:3 15:13 nutrient (1) **OFA** (1) 151:8 234:12 nutrients (3) OFARM (1) 157:14:197:8,9 83:6 nutrition (3) off (20) 28:9;148:2;153:16 5:10;6:5;11:8; 41:12;44:24;56:24; nutritional (2) 59:11;64:9,14;96:25; 41:20;68:10 nutritionist (3) 104:8;127:15;151:19; 37:4;148:4;152:19 158:8,16;183:4; nutritionists (3) 189:12;253:8,17,20 42:16;130:2;149:3 offer (4) nutritious (1) 24:5;90:21;162:1; 222:21 231:2 nutshell (3) offered (5) 73:22;97:6;100:10 117:22;145:24; 192:13,23;250:6 0 offering (3) 32:3;89:13;194:16 oats (1) offers (1) 209:3 102:6 objective (1) officer (1) 241:13 131:13 objectors (1) offices (2)

officially (1) 170:3 officials (1) 157:20 offset (1) 250:21 OFPA (1) 32:10 often (12) 68:16:83:19:108:7: 116:23;137:21; 141:13:152:20; 160:21;170:9;178:10; 228:20:231:14 oftentimes (3) 136:24;175:18; 221:16 **OGRAIN** (2) 137:7;139:10 Ohio (3) 46:19:196:5:199:6 oil (7) 101:22;122:15,16, 17,21,22;183:3 oilseeds (1) 189:1 old (1) 92:2 older (2) 17:21,25 OLPS (1) 129:20 Olson (3) 247:3;254:1;256:4 OMDG (2) 144:7;248:23 **OMRI (4)** 67:13:171:19; 172:12:176:14 OMRI's (2) 170:22;175:24 on- (2) 136:13;254:21 once (16) 8:11;25:20;30:7; 33:11;45:17;91:8,9; 105:23;130:25;131:3, 4;132:3;141:21; 176:7;186:6,11 one (114) 4:7:20:8,18:22:11: 23:9:25:24:27:18: 34:4,10:36:9,11:38:9; 40:9,22;42:5;43:15; 45:1;51:11,11,20; 53:16,16;54:14;55:7; 56:8;58:13;63:4;64:1, 19,20;65:7,20;69:7; 71:12;75:16;78:1; 79:16;82:21;84:2; 87:5;92:12;94:22; 97:21:99:11:105:15; 110:20;111:5,7;

112:17:115:15.23; 116:3:127:5:142:7: 143:5;144:13,20,22; 145:14.19:146:25: 148:6,19,19,19,21; 149:8;152:20;157:11, 25;158:11;164:6; 166:4:167:7:169:1. 15;172:16;173:8; 177:16,24;178:13,22; 179:3;180:7;181:7; 182:23;185:2;189:16; 196:5;197:5;198:6; 210:1,15;214:8; 218:25;223:10; 224:14;225:20;227:5; 229:7;235:7;237:21; 238:6,6,16;242:13; 243:8;245:3,12; 247:1;249:8;252:10; 253:19:254:5 ones (5) 85:14;130:13; 160:4;197:20;210:25 on-farm (1) 136:9 ongoing (5) 116:23;117:6,6,9; 217:15 onion (1) 180:17 online (4) 4:5,18;73:21;256:5 only (50) 4:19;6:16;7:4; 12:17;27:3;28:16; 36:19:37:9:44:25; 48:24;52:3;54:23; 60:3;64:9,21;65:12; 70:2:71:6.15.19; 75:15;92:25;93:2; 99:12:102:3,16: 111:4;116:17;125:6; 135:10;139:14,17; 142:24;158:13;170:5; 179:7;193:1;195:17; 199:17,20;201:8; 217:24;222:25; 225:16;226:10;228:6; 229:17;239:14; 245:19;251:11 onset (1) 91:18 onsite (1) 226:25 onto (1) 27:9 **OPA** (6) 230:21,23;231:7,8; 232:12,18 open (13) 8:16;45:25;72:2; 94:12,15:107:20;

- Vol. 2 April 25, 2024

109:22;110:3;112:21; 113:8:124:25:131:16: 155:12 opened (1) 74:23 opening (4) 17:13;24:12;44:17; 53:11 operate (1) 70:24 operates (2) 124:2:216:7 operating (1) 222:11 operation (18) 14:18;31:3;32:3; 57:15;71:3;83:24; 185:8;187:13;188:6; 192:19;209:1;210:2; 212:15;216:6,13,22; 217:1.5 operations (18) 29:17;31:12;44:4; 60:17;69:23;108:23; 129:25;190:21; 200:18;211:16;212:5; 218:3,7,9;222:10; 229:6;231:10;236:22 operators (4) 129:12;130:2,4; 133:20 opinion (6) 84:24;125:1;171:4; 173:1;236:9,9 opportunities (4) 17:14;24:11;54:17; 103:24 opportunity (27) 23:6;32:4;34:23; 44:10:69:4;72:5;83:1; 84:25:100:15:110:5: 117:18,22;119:15; 128:1;137:24;142:15; 155:24;162:22; 183:20;191:19;199:7; 201:24;208:24; 212:23;224:17; 240:14;248:2 opposed (3) 132:21;167:5;249:5 opposite (1) 151:17 OPSA (1) 121:3 optimization (1) 206:14 optimize (3) 203:24;204:15,19 option (7) 44:9:67:22:79:3; 136:20;148:15; 231:18.20 optional (1)

Min-U-Script®

37:14

Burke Court Reporting & Transcription (973) 692-0660

17:10:155:19

(29) noticing - optional

- Vol. 2 April 25, 2024

Spring 2024 Meeting		1		April 25, 2024
6:24	23;104:8,19,22;	240:2;241:2,24;	24:17,24;34:25;	32:17;35:23;38:4;
optionality (3)	105:11,12;107:25;	244:19;247:11,14,15,	37:16,19;39:25;44:2;	49:1;57:22;59:13,20;
41:23;79:19;152:25	108:22;109:2,3,6,19;	19,21;248:2,4,5,6,9,	59:25;71:14,17;	60:10;65:24;66:4;
options (7)	116:14,20;119:10,12,	11,16,17,20,22,23,24;	72:21;73:16,18;	71:3;86:3,6,17;90:2,
32:15;36:9;68:2;	14,17,20,22;120:1,3,	249:1,2,2,3;250:5,15,	76:19,21;77:11;	23;91:19;114:7;
148:11,23;153:8,20	6,15,15,18,20,21,24;	16;251:13;252:21;	78:12;80:11,22;81:9;	119:15;125:13;
oral (7)	121:1,3,6,15;122:10,	254:11,19,21;255:1,3,	84:14;86:23;88:10,	132:22;134:10;137:4;
32:8,13,15;85:14;	13,16,18;123:24;	6,8,24	16;89:22;90:8;91:6;	139:22;163:5,9;
110:16;130:13;	124:1,3,8,11,14;	organically (9)	99:5,12;103:12;	170:9;173:17;174:15;
170:23	126:3,7,14;127:10,24,	52:9;53:23;56:15;	105:8;110:22;111:3;	188:20;195:3,9,19;
orally (1)	24,25,25;128:7,18,20,	60:14;64:2;71:21;	114:9,16,24;117:4;	196:11;204:4;208:6;
117:18	21,25;129:3,4,6,7,11,	141:22;204:23;216:8	122:3;124:4,19;	211:24;216:12;
order (10)	13,14;130:7,21,22;	organic-minded (1)	125:8;126:12,14;	218:18;229:12,24;
12:11;43:10;	132:9,19;133:1,13,15;	217:11	131:8;132:25;133:1,	239:1;242:19;244:6
113:11;150:13;155:2;	136:3,4,12,15,16,17;	organics (21)	9,25;134:1;135:23;	overall (6)
157:14;172:7,17;	137:3,19,20,22,25;	30:20;39:19;51:8,	138:24;141:21;	28:7;44:18;58:5;
214:11;249:19	139:10;140:24;141:7,	11;69:14;76:3,3;	143:12;144:25;145:6;	221:19;241:5;245:21
Oregon (1)	12;142:1;143:22;	83:23;182:8;183:15;	156:20;158:25;163:6,	overcome (1)
142:3	144:6,11,23;145:6,9,	188:17;193:2;216:6,	23;164:9,17;165:3,6;	84:2
Organic (578)	23;146:14;148:3,10,	25;231:8;236:4,11;	171:25;174:5,24,24;	overfeed (1)
7:21;8:13;11:9;	14,14,23,23,24;	238:11;246:9;254:12;	175:9,11,11;185:20;	151:11
14:4,6,19,21,24;15:5,	149:16,22;152:19;	255:9	186:18;192:7,22;	overfeeding (2)
6,8;16:20;17:15,18;	153:17;154:12,14,18,	organization (4)	193:25;194:2,16;	150:13;151:16
18:12,14;19:9,9,16,	19,20;155:2,6,13,14,	168:13;170:6;	195:9,12,13,16,17,19;	overlooked (1)
17,19,20;20:4,4;22:4,	22;156:7,8,20,21;	182:8;230:22	196:7,18,18,19,25;	193:4
12,16;23:9,14,16;	157:6,7,10,10,11,13,	organizations (2)	197:18,18;198:21;	over-processed (1)
28:11,14,17,21,24;	19,22,24,25;158:4,5,	40:5;170:7	206:25;207:10,11,12;	153:9
29:6,11,12,14,23,24;	7,16,24;159:6,7,17,	origin (2)	213:23;214:21;	overreach (1)
30:1,6,6,9;31:3;32:4;	18,23,24;160:1,6,9,	132:1;201:7	215:15;223:9;229:5;	84:24
33:13;38:15,22;39:1,	15,16;161:8;163:5,	original (1)	231:18,25;235:24;	overseas (8)
3;40:6,14,19,19,23;	25;164:7,16;165:17;	230:20	241:3;254:2,20	61:19;121:15;
41:23;42:2;43:19;	166:1,13;167:14,15,	originating (1)	outbreak (1)	141:5;142:8,11,13;
44:10,20;45:17;	17,18,22;168:6,8,20;	120:7	33:10	211:20;212:21
47:19,22;48:2,14;	178:2,5,11;182:6,6,	Orlando (1)	outcome (1)	oversight (3)
47:19,22;48:2,14; 49:6;51:3,10,18,24;	178:2,5,11;182:6,6, 11,12,14,16,20,21,24;	Orlando (1) 202:17	outcome (1) 217:16	oversight (3) 85:6;199:15;228:22
47:19,22;48:2,14; 49:6;51:3,10,18,24; 52:1,2,4,5,9,17;53:24;	178:2,5,11;182:6,6, 11,12,14,16,20,21,24; 183:1,10,20,22,24;	Orlando (1) 202:17 ortho-phthalates (4)	outcome (1) 217:16 outcomes (2)	oversight (3) 85:6;199:15;228:22 overstate (1)
47:19,22;48:2,14; 49:6;51:3,10,18,24; 52:1,2,4,5,9,17;53:24; 54:1,14,15,21,23,23;	178:2,5,11;182:6,6, 11,12,14,16,20,21,24; 183:1,10,20,22,24; 184:2,4,20,21;185:25;	Orlando (1) 202:17 ortho-phthalates (4) 236:1,7;238:1,5	outcome (1) 217:16 outcomes (2) 169:8;219:15	oversight (3) 85:6;199:15;228:22 overstate (1) 200:17
47:19,22;48:2,14; 49:6;51:3,10,18,24; 52:1,2,4,5,9,17;53:24; 54:1,14,15,21,23,23; 55:1,3,15;56:20;	178:2,5,11;182:6,6, 11,12,14,16,20,21,24; 183:1,10,20,22,24; 184:2,4,20,21;185:25; 186:18;188:6,10;	Orlando (1) 202:17 ortho-phthalates (4) 236:1,7;238:1,5 Osowitz (3)	outcome (1) 217:16 outcomes (2) 169:8;219:15 outlet (2)	oversight (3) 85:6;199:15;228:22 overstate (1) 200:17 overview (1)
47:19,22;48:2,14; 49:6;51:3,10,18,24; 52:1,2,4,5,9,17;53:24; 54:1,14,15,21,23,23; 55:1,3,15;56:20; 57:13,14,15,18,25;	178:2,5,11;182:6,6, 11,12,14,16,20,21,24; 183:1,10,20,22,24; 184:2,4,20,21;185:25; 186:18;188:6,10; 189:15,21;190:3,10,	Orlando (1) 202:17 ortho-phthalates (4) 236:1,7;238:1,5 Osowitz (3) 70:12;75:10;95:17	outcome (1) 217:16 outcomes (2) 169:8;219:15 outlet (2) 78:20;241:8	oversight (3) 85:6;199:15;228:22 overstate (1) 200:17 overview (1) 60:24
47:19,22;48:2,14; 49:6;51:3,10,18,24; 52:1,2,4,5,9,17;53:24; 54:1,14,15,21,23,23; 55:1,3,15;56:20; 57:13,14,15,18,25; 58:1,2,5;59:3,15,25;	178:2,5,11;182:6,6, 11,12,14,16,20,21,24; 183:1,10,20,22,24; 184:2,4,20,21;185:25; 186:18;188:6,10; 189:15,21;190:3,10, 11,16;191:17,21,25;	Orlando (1) 202:17 ortho-phthalates (4) 236:1,7;238:1,5 Osowitz (3) 70:12;75:10;95:17 OSP (2)	outcome (1) 217:16 outcomes (2) 169:8;219:15 outlet (2) 78:20;241:8 outlets (5)	oversight (3) 85:6;199:15;228:22 overstate (1) 200:17 overview (1) 60:24 overwhelm (4)
47:19,22;48:2,14; 49:6;51:3,10,18,24; 52:1,2,4,5,9,17;53:24; 54:1,14,15,21,23,23; 55:1,3,15;56:20; 57:13,14,15,18,25; 58:1,2,5;59:3,15,25; 60:9;61:20,21;63:24;	178:2,5,11;182:6,6, 11,12,14,16,20,21,24; 183:1,10,20,22,24; 184:2,4,20,21;185:25; 186:18;188:6,10; 189:15,21;190:3,10, 11,16;191:17,21,25; 192:1,22;197:1,10,16,	Orlando (1) 202:17 ortho-phthalates (4) 236:1,7;238:1,5 Osowitz (3) 70:12;75:10;95:17 OSP (2) 129:18;130:4	outcome (1) 217:16 outcomes (2) 169:8;219:15 outlet (2) 78:20;241:8 outlets (5) 59:5;78:2,3;98:19;	oversight (3) 85:6;199:15;228:22 overstate (1) 200:17 overview (1) 60:24 overwhelm (4) 104:6;168:22;
47:19,22;48:2,14; 49:6;51:3,10,18,24; 52:1,2,4,5,9,17;53:24; 54:1,14,15,21,23,23; 55:1,3,15;56:20; 57:13,14,15,18,25; 58:1,2,5;59:3,15,25; 60:9;61:20,21;63:24; 64:1,3,5,8,11,12,13,	178:2,5,11;182:6,6, 11,12,14,16,20,21,24; 183:1,10,20,22,24; 184:2,4,20,21;185:25; 186:18;188:6,10; 189:15,21;190:3,10, 11,16;191:17,21,25; 192:1,22;197:1,10,16, 20;199:9,10,12,14;	Orlando (1) 202:17 ortho-phthalates (4) 236:1,7;238:1,5 Osowitz (3) 70:12;75:10;95:17 OSP (2) 129:18;130:4 OSPA (3)	outcome (1) 217:16 outcomes (2) 169:8;219:15 outlet (2) 78:20;241:8 outlets (5) 59:5;78:2,3;98:19; 138:13	oversight (3) 85:6;199:15;228:22 overstate (1) 200:17 overview (1) 60:24 overwhelm (4) 104:6;168:22; 173:10,24
47:19,22;48:2,14; 49:6;51:3,10,18,24; 52:1,2,4,5,9,17;53:24; 54:1,14,15,21,23,23; 55:1,3,15;56:20; 57:13,14,15,18,25; 58:1,2,5;59:3,15,25; 60:9;61:20,21;63:24; 64:1,3,5,8,11,12,13, 17,21,22;65:1,1,16;	$\begin{array}{c} 178{:}2{,}5{,}11{;}182{:}6{,}6{,}\\ 11{,}12{,}14{,}16{,}20{,}21{,}24{;}\\ 183{:}1{,}10{,}20{,}22{,}24{;}\\ 184{:}2{,}4{,}20{,}21{;}185{:}25{;}\\ 186{:}18{;}188{:}6{,}10{;}\\ 189{:}15{,}21{;}190{:}3{,}10{,}\\ 11{,}16{;}191{:}17{,}21{,}25{;}\\ 192{:}1{,}22{;}197{:}1{,}10{,}16{,}\\ 20{;}199{:}9{,}10{,}12{,}14{;}\\ 201{:}10{,}24{;}202{:}20{,}22{,} \end{array}$	Orlando (1) 202:17 ortho-phthalates (4) 236:1,7;238:1,5 Osowitz (3) 70:12;75:10;95:17 OSP (2) 129:18;130:4 OSPA (3) 119:11,11,18	outcome (1) 217:16 outcomes (2) 169:8;219:15 outlet (2) 78:20;241:8 outlets (5) 59:5;78:2,3;98:19; 138:13 outline (1)	oversight (3) 85:6;199:15;228:22 overstate (1) 200:17 overview (1) 60:24 overwhelm (4) 104:6;168:22; 173:10,24 owe (4)
$\begin{array}{c} 47:19,22;48:2,14;\\ 49:6;51:3,10,18,24;\\ 52:1,2,4,5,9,17;53:24;\\ 54:1,14,15,21,23,23;\\ 55:1,3,15;56:20;\\ 57:13,14,15,18,25;\\ 58:1,2,5;59:3,15,25;\\ 60:9;61:20,21;63:24;\\ 64:1,3,5,8,11,12,13,\\ 17,21,22;65:1,1,16;\\ 66:8;67:14,15,17,18, \end{array}$	$\begin{array}{c} 178;2,5,11;182;6,6,\\ 11,12,14,16,20,21,24;\\ 183;1,10,20,22,24;\\ 184;2,4,20,21;185;25;\\ 186;18;188;6,10;\\ 189;15,21;190;3,10,\\ 11,16;191;17,21,25;\\ 192;1,22;197;1,10,16,\\ 20;199;9,10,12,14;\\ 201;10,24;202;20,22,\\ 25;203;6,8,25;204;3,\\ \end{array}$	Orlando (1) 202:17 ortho-phthalates (4) 236:1,7;238:1,5 Osowitz (3) 70:12;75:10;95:17 OSP (2) 129:18;130:4 OSPA (3) 119:11,11,18 others (8)	outcome (1) 217:16 outcomes (2) 169:8;219:15 outlet (2) 78:20;241:8 outlets (5) 59:5;78:2,3;98:19; 138:13 outline (1) 68:20	oversight (3) 85:6;199:15;228:22 overstate (1) 200:17 overview (1) 60:24 overwhelm (4) 104:6;168:22; 173:10,24 owe (4) 115:5,6,7;251:13
$\begin{array}{c} 47:19,22;48:2,14;\\ 49:6;51:3,10,18,24;\\ 52:1,2,4,5,9,17;53:24;\\ 54:1,14,15,21,23,23;\\ 55:1,3,15;56:20;\\ 57:13,14,15,18,25;\\ 58:1,2,5;59:3,15,25;\\ 60:9;61:20,21;63:24;\\ 64:1,3,5,8,11,12,13,\\ 17,21,22;65:1,1,16;\\ 66:8;67:14,15,17,18,\\ 24;68:2;69:17,21;\\ \end{array}$	178:2,5,11;182:6,6, 11,12,14,16,20,21,24; 183:1,10,20,22,24; 184:2,4,20,21;185:25; 186:18;188:6,10; 189:15,21;190:3,10, 11,16;191:17,21,25; 192:1,22;197:1,10,16, 20;199:9,10,12,14; 201:10,24;202:20,22, 25;203:6,8,25;204:3, 10,10,12,16,19,24;	Orlando (1) 202:17 ortho-phthalates (4) 236:1,7;238:1,5 Osowitz (3) 70:12;75:10;95:17 OSP (2) 129:18;130:4 OSPA (3) 119:11,11,18 others (8) 16:22;17:4;31:22;	outcome (1) 217:16 outcomes (2) 169:8;219:15 outlet (2) 78:20;241:8 outlets (5) 59:5;78:2,3;98:19; 138:13 outline (1) 68:20 outlined (3)	oversight (3) 85:6;199:15;228:22 overstate (1) 200:17 overview (1) 60:24 overwhelm (4) 104:6;168:22; 173:10,24 owe (4) 115:5,6,7;251:13 own (17)
$\begin{array}{c} 47:19,22;48:2,14;\\ 49:6;51:3,10,18,24;\\ 52:1,2,4,5,9,17;53:24;\\ 54:1,14,15,21,23,23;\\ 55:1,3,15;56:20;\\ 57:13,14,15,18,25;\\ 58:1,2,5;59:3,15,25;\\ 60:9;61:20,21;63:24;\\ 64:1,3,5,8,11,12,13,\\ 17,21,22;65:1,1,16;\\ 66:8;67:14,15,17,18,\\ 24;68:2;69:17,21;\\ 70:23;71:5,7,10,11,\\ \end{array}$	$\begin{array}{c} 178;2,5,11;182;6,6,\\ 11,12,14,16,20,21,24;\\ 183;1,10,20,22,24;\\ 184;2,4,20,21;185;25;\\ 186;18;188;6,10;\\ 189:15,21;190;3,10,\\ 11,16;191:17,21,25;\\ 192:1,22;197;1,10,16,\\ 20;199:9,10,12,14;\\ 201:10,24;202:20,22,\\ 25;203;6,8,25;204;3,\\ 10,10,12,16,19,24;\\ 205;2,14;207;14,23;\\ \end{array}$	Orlando (1) 202:17 ortho-phthalates (4) 236:1,7;238:1,5 Osowitz (3) 70:12;75:10;95:17 OSP (2) 129:18;130:4 OSPA (3) 119:11,11,18 others (8) 16:22;17:4;31:22; 42:21,22;44:6;	outcome (1) 217:16 outcomes (2) 169:8;219:15 outlet (2) 78:20;241:8 outlets (5) 59:5;78:2,3;98:19; 138:13 outline (1) 68:20 outlined (3) 28:6;170:13;226:7	oversight (3) 85:6;199:15;228:22 overstate (1) 200:17 overview (1) 60:24 overwhelm (4) 104:6;168:22; 173:10,24 owe (4) 115:5,6,7;251:13 own (17) 5:9,19;22:2;40:3,6;
$\begin{array}{c} 47:19,22;48:2,14;\\ 49:6;51:3,10,18,24;\\ 52:1,2,4,5,9,17;53:24;\\ 54:1,14,15,21,23,23;\\ 55:1,3,15;56:20;\\ 57:13,14,15,18,25;\\ 58:1,2,5;59:3,15,25;\\ 60:9;61:20,21;63:24;\\ 64:1,3,5,8,11,12,13,\\ 17,21,22;65:1,1,16;\\ 66:8;67:14,15,17,18,\\ 24;68:2;69:17,21;\\ 70:23;71:5,7,10,11,\\ 21,25;72:1,5,16,19,\\ \end{array}$	$\begin{array}{c} 178;2,5,11;182;6,6,\\ 11,12,14,16,20,21,24;\\ 183;1,10,20,22,24;\\ 184;2,4,20,21;185;25;\\ 186;18;188;6,10;\\ 189:15,21;190;3,10,\\ 11,16;191;17,21,25;\\ 192:1,22;197;1,10,16,\\ 20;199:9,10,12,14;\\ 201:10,24;202:20,22,\\ 25;203;6,8,25;204;3,\\ 10,10,12,16,19,24;\\ 205;2,14;207;14,23;\\ 211:8,11,12,13,14,18,\\ \end{array}$	Orlando (1) 202:17 ortho-phthalates (4) 236:1,7;238:1,5 Osowitz (3) 70:12;75:10;95:17 OSP (2) 129:18;130:4 OSPA (3) 119:11,11,18 others (8) 16:22;17:4;31:22; 42:21,22;44:6; 105:23;121:20	outcome (1) 217:16 outcomes (2) 169:8;219:15 outlet (2) 78:20;241:8 outlets (5) 59:5;78:2,3;98:19; 138:13 outline (1) 68:20 outlined (3) 28:6;170:13;226:7 outproduce (1)	oversight (3) 85:6;199:15;228:22 overstate (1) 200:17 overview (1) 60:24 overwhelm (4) 104:6;168:22; 173:10,24 owe (4) 115:5,6,7;251:13 own (17) 5:9,19;22:2;40:3,6; 64:2;82:5;92:20;
$\begin{array}{c} 47:19,22;48:2,14;\\ 49:6;51:3,10,18,24;\\ 52:1,2,4,5,9,17;53:24;\\ 54:1,14,15,21,23,23;\\ 55:1,3,15;56:20;\\ 57:13,14,15,18,25;\\ 58:1,2,5;59:3,15,25;\\ 60:9;61:20,21;63:24;\\ 64:1,3,5,8,11,12,13,\\ 17,21,22;65:1,1,16;\\ 66:8;67:14,15,17,18,\\ 24;68:2;69:17,21;\\ 70:23;71:5,7,10,11,\\ 21,25;72:1,5,16,19,\\ 22,25;73:1,16,21;\\ \end{array}$	$\begin{array}{c} 178;2,5,11;182;6,6,\\ 11,12,14,16,20,21,24;\\ 183;1,10,20,22,24;\\ 184;2,4,20,21;185;25;\\ 186;18;188;6,10;\\ 189;15,21;190;3,10,\\ 11,16;191;17,21,25;\\ 192;1,22;197;1,10,16,\\ 20;199;9,10,12,14;\\ 201;10,24;202;20,22,\\ 25;203;6,8,25;204;3,\\ 10,10,12,16,19,24;\\ 205;2,14;207;14,23;\\ 211;8,11,12,13,14,18,\\ 21;212;1,3,4,5,6,10,\\ \end{array}$	Orlando (1) 202:17 ortho-phthalates (4) 236:1,7;238:1,5 Osowitz (3) 70:12;75:10;95:17 OSP (2) 129:18;130:4 OSPA (3) 119:11,11,18 others (8) 16:22;17:4;31:22; 42:21,22;44:6; 105:23;121:20 Otherwise (5)	outcome (1) 217:16 outcomes (2) 169:8;219:15 outlet (2) 78:20;241:8 outlets (5) 59:5;78:2,3;98:19; 138:13 outline (1) 68:20 outlined (3) 28:6;170:13;226:7 outproduce (1) 228:23	oversight (3) 85:6;199:15;228:22 overstate (1) 200:17 overview (1) 60:24 overwhelm (4) 104:6;168:22; 173:10,24 owe (4) 115:5,6,7;251:13 own (17) 5:9,19;22:2;40:3,6; 64:2;82:5;92:20; 100:7;110:18;121:19;
$\begin{array}{c} 47:19,22;48:2,14;\\ 49:6;51:3,10,18,24;\\ 52:1,2,4,5,9,17;53:24;\\ 54:1,14,15,21,23,23;\\ 55:1,3,15;56:20;\\ 57:13,14,15,18,25;\\ 58:1,2,5;59:3,15,25;\\ 60:9;61:20,21;63:24;\\ 64:1,3,5,8,11,12,13,\\ 17,21,22;65:1,1,16;\\ 66:8;67:14,15,17,18,\\ 24;68:2;69:17,21;\\ 70:23;71:5,7,10,11,\\ 21,25;72:1,5,16,19,\\ 22,25;73:1,16,21;\\ 77:5;78:23;80:2,3,6,9,\\ \end{array}$	$\begin{array}{c} 178;2,5,11;182;6,6,\\ 11,12,14,16,20,21,24;\\ 183;1,10,20,22,24;\\ 184;2,4,20,21;185;25;\\ 186;18;188;6,10;\\ 189;15,21;190;3,10,\\ 11,16;191;17,21,25;\\ 192;1,22;197;1,10,16,\\ 20;199:9,10,12,14;\\ 201;10,24;202;20,22,\\ 25;203;6,8,25;204;3,\\ 10,10,12,16,19,24;\\ 205;2,14;207;14,23;\\ 211;8,11,12,13,14,18,\\ 21;212;1,3,4,5,6,10,\\ 11,13,17,19,20,24,25;\\ \end{array}$	Orlando (1) 202:17 ortho-phthalates (4) 236:1,7;238:1,5 Osowitz (3) 70:12;75:10;95:17 OSP (2) 129:18;130:4 OSPA (3) 119:11,11,18 others (8) 16:22;17:4;31:22; 42:21,22;44:6; 105:23;121:20 Otherwise (5) 66:20;101:5;169:9;	outcome (1) 217:16 outcomes (2) 169:8;219:15 outlet (2) 78:20;241:8 outlets (5) 59:5;78:2,3;98:19; 138:13 outline (1) 68:20 outlined (3) 28:6;170:13;226:7 outproduce (1) 228:23 output (1)	oversight (3) 85:6;199:15;228:22 overstate (1) 200:17 overview (1) 60:24 overwhelm (4) 104:6;168:22; 173:10,24 owe (4) 115:5,6,7;251:13 own (17) 5:9,19;22:2;40:3,6; 64:2;82:5;92:20; 100:7;110:18;121:19; 141:9;186:11;200:25;
$\begin{array}{c} 47:19,22;48:2,14;\\ 49:6;51:3,10,18,24;\\ 52:1,2,4,5,9,17;53:24;\\ 54:1,14,15,21,23,23;\\ 55:1,3,15;56:20;\\ 57:13,14,15,18,25;\\ 58:1,2,5;59:3,15,25;\\ 60:9;61:20,21;63:24;\\ 64:1,3,5,8,11,12,13,\\ 17,21,22;65:1,1,16;\\ 66:8;67:14,15,17,18,\\ 24;68:2;69:17,21;\\ 70:23;71:5,7,10,11,\\ 21,25;72:1,5,16,19,\\ 22,25;73:1,16,21;\\ 77:5;78:23;80:2,3,6,9,\\ 12;82:14;83:2,9,14,\\ \end{array}$	$\begin{array}{c} 178;2,5,11;182;6,6,\\ 11,12,14,16,20,21,24;\\ 183;1,10,20,22,24;\\ 184;2,4,20,21;185;25;\\ 186;18;188;6,10;\\ 189;15,21;190;3,10,\\ 11,16;191;17,21,25;\\ 192;1,22;197;1,10,16,\\ 20;199:9,10,12,14;\\ 201;10,24;202;20,22,\\ 25;203;6,8,25;204;3,\\ 10,10,12,16,19,24;\\ 205;2,14;207;14,23;\\ 211;8,11,12,13,14,18,\\ 21;212;1,3,4,5,6,10,\\ 11,13,17,19,20,24,25;\\ 214;1,10;216;5,6,22;\\ \end{array}$	Orlando (1) 202:17 ortho-phthalates (4) 236:1,7;238:1,5 Osowitz (3) 70:12;75:10;95:17 OSP (2) 129:18;130:4 OSPA (3) 119:11,11,18 others (8) 16:22;17:4;31:22; 42:21,22;44:6; 105:23;121:20 Otherwise (5) 66:20;101:5;169:9; 220:17;225:1	outcome (1) 217:16 outcomes (2) 169:8;219:15 outlet (2) 78:20;241:8 outlets (5) 59:5;78:2,3;98:19; 138:13 outline (1) 68:20 outlined (3) 28:6;170:13;226:7 outproduce (1) 228:23 output (1) 232:11	oversight (3) 85:6;199:15;228:22 overstate (1) 200:17 overview (1) 60:24 overwhelm (4) 104:6;168:22; 173:10,24 owe (4) 115:5,6,7;251:13 own (17) 5:9,19;22:2;40:3,6; 64:2;82:5;92:20; 100:7;110:18;121:19; 141:9;186:11;200:25; 238:14;247:20;
$\begin{array}{c} 47:19,22;48:2,14;\\ 49:6;51:3,10,18,24;\\ 52:1,2,4,5,9,17;53:24;\\ 54:1,14,15,21,23,23;\\ 55:1,3,15;56:20;\\ 57:13,14,15,18,25;\\ 58:1,2,5;59:3,15,25;\\ 60:9;61:20,21;63:24;\\ 64:1,3,5,8,11,12,13,\\ 17,21,22;65:1,1,16;\\ 66:8;67:14,15,17,18,\\ 24;68:2;69:17,21;\\ 70:23;71:5,7,10,11,\\ 21,25;72:1,5,16,19,\\ 22,25;73:1,16,21;\\ 77:5;78:23;80:2,3,6,9,\\ 12;82:14;83:2,9,14,\\ 23;84:17;85:16,18;\\ \end{array}$	$\begin{array}{c} 178;2,5,11;182;6,6,\\ 11,12,14,16,20,21,24;\\ 183;1,10,20,22,24;\\ 184;2,4,20,21;185;25;\\ 186;18;188;6,10;\\ 189;15,21;190;3,10,\\ 11,16;191;17,21,25;\\ 192;1,22;197;1,10,16,\\ 20;199:9,10,12,14;\\ 201;10,24;202;20,22,\\ 25;203;6,8,25;204;3,\\ 10,10,12,16,19,24;\\ 205;2,14;207;14,23;\\ 211;8,11,12,13,14,18,\\ 21;212;1,3,4,5,6,10,\\ 11,13,17,19,20,24,25;\\ 214;1,10;216;5,6,22;\\ 217;4,8;219;20,23,25;\\ \end{array}$	Orlando (1) 202:17 ortho-phthalates (4) 236:1,7;238:1,5 Osowitz (3) 70:12;75:10;95:17 OSP (2) 129:18;130:4 OSPA (3) 119:11,11,18 others (8) 16:22;17:4;31:22; 42:21,22;44:6; 105:23;121:20 Otherwise (5) 66:20;101:5;169:9; 220:17;225:1 ounces (2)	outcome (1) 217:16 outcomes (2) 169:8;219:15 outlet (2) 78:20;241:8 outlets (5) 59:5;78:2,3;98:19; 138:13 outline (1) 68:20 outlined (3) 28:6;170:13;226:7 outproduce (1) 228:23 output (1) 232:11 outreach (1)	oversight (3) 85:6;199:15;228:22 overstate (1) 200:17 overview (1) 60:24 overwhelm (4) 104:6;168:22; 173:10,24 owe (4) 115:5,6,7;251:13 own (17) 5:9,19;22:2;40:3,6; 64:2;82:5;92:20; 100:7;110:18;121:19; 141:9;186:11;200:25; 238:14;247:20; 253:16
$\begin{array}{c} 47:19,22;48:2,14;\\ 49:6;51:3,10,18,24;\\ 52:1,2,4,5,9,17;53:24;\\ 54:1,14,15,21,23,23;\\ 55:1,3,15;56:20;\\ 57:13,14,15,18,25;\\ 58:1,2,5;59:3,15,25;\\ 60:9;61:20,21;63:24;\\ 64:1,3,5,8,11,12,13,\\ 17,21,22;65:1,1,16;\\ 66:8;67:14,15,17,18,\\ 24;68:2;69:17,21;\\ 70:23;71:5,7,10,11,\\ 21,25;72:1,5,16,19,\\ 22,25;73:1,16,21;\\ 77:5;78:23;80:2,3,6,9,\\ 12;82:14;83:2,9,14,\\ 23;84:17;85:16,18;\\ 86:3;87:9,13,13,17,\\ \end{array}$	$\begin{array}{l} 178:2,5,11;182:6,6,\\ 11,12,14,16,20,21,24;\\ 183:1,10,20,22,24;\\ 184:2,4,20,21;185:25;\\ 186:18;188:6,10;\\ 189:15,21;190:3,10,\\ 11,16;191:17,21,25;\\ 192:1,22;197:1,10,16,\\ 20;199:9,10,12,14;\\ 201:10,24;202:20,22,\\ 25;203:6,8,25;204:3,\\ 10,10,12,16,19,24;\\ 205:2,14;207:14,23;\\ 211:8,11,12,13,14,18,\\ 21;212:1,3,4,5,6,10,\\ 11,13,17,19,20,24,25;\\ 214:1,10;216:5,6,22;\\ 217:4,8;219:20,23,25;\\ 220:3,6,10,12,15,18,\\ \end{array}$	Orlando (1) 202:17 ortho-phthalates (4) 236:1,7;238:1,5 Osowitz (3) 70:12;75:10;95:17 OSP (2) 129:18;130:4 OSPA (3) 119:11,11,18 others (8) 16:22;17:4;31:22; 42:21,22;44:6; 105:23;121:20 Otherwise (5) 66:20;101:5;169:9; 220:17;225:1 ounces (2) 195:17,18	outcome (1) 217:16 outcomes (2) 169:8;219:15 outlet (2) 78:20;241:8 outlets (5) 59:5;78:2,3;98:19; 138:13 outline (1) 68:20 outlined (3) 28:6;170:13;226:7 outproduce (1) 228:23 output (1) 232:11 outreach (1) 20:7	oversight (3) 85:6;199:15;228:22 overstate (1) 200:17 overview (1) 60:24 overwhelm (4) 104:6;168:22; 173:10,24 owe (4) 115:5,6,7;251:13 own (17) 5:9,19;22:2;40:3,6; 64:2;82:5;92:20; 100:7;110:18;121:19; 141:9;186:11;200:25; 238:14;247:20; 253:16 owned (1)
$\begin{array}{c} 47:19,22;48:2,14;\\ 49:6;51:3,10,18,24;\\ 52:1,2,4,5,9,17;53:24;\\ 54:1,14,15,21,23,23;\\ 55:1,3,15;56:20;\\ 57:13,14,15,18,25;\\ 58:1,2,5;59:3,15,25;\\ 60:9;61:20,21;63:24;\\ 64:1,3,5,8,11,12,13,\\ 17,21,22;65:1,1,16;\\ 66:8;67:14,15,17,18,\\ 24;68:2;69:17,21;\\ 70:23;71:5,7,10,11,\\ 21,25;72:1,5,16,19,\\ 22,25;73:1,16,21;\\ 77:5;78:23;80:2,3,6,9,\\ 12;82:14;83:2,9,14,\\ 23;84:17;85:16,18;\\ 86:3;87:9,13,13,17,\\ 17,17,20,22,23,24;\\ \end{array}$	$\begin{array}{c} 178;2,5,11;182;6,6,\\ 11,12,14,16,20,21,24;\\ 183;1,10,20,22,24;\\ 184;2,4,20,21;185;25;\\ 186;18;188;6,10;\\ 189;15,21;190;3,10,\\ 11,16;191;17,21,25;\\ 192;1,22;197;1,10,16,\\ 20;199:9,10,12,14;\\ 201;10,24;202:20,22,\\ 25;203;6,8,25;204;3,\\ 10,10,12,16,19,24;\\ 205;2,14;207;14,23;\\ 211;8,11,12,13,14,18,\\ 21;212;1,3,4,5,6,10,\\ 11,13,17,19,20,24,25;\\ 214;1,10;216;5,6,22;\\ 217;4,8;219:20,23,25;\\ 220;3,6,10,12,15,18,\\ 21;221;2,3,4,6,15,22;\\ \end{array}$	Orlando (1) 202:17 ortho-phthalates (4) 236:1,7;238:1,5 Osowitz (3) 70:12;75:10;95:17 OSP (2) 129:18;130:4 OSPA (3) 119:11,11,18 others (8) 16:22;17:4;31:22; 42:21,22;44:6; 105:23;121:20 Otherwise (5) 66:20;101:5;169:9; 220:17;225:1 ounces (2) 195:17,18 ours (2)	outcome (1) 217:16 outcomes (2) 169:8;219:15 outlet (2) 78:20;241:8 outlets (5) 59:5;78:2,3;98:19; 138:13 outline (1) 68:20 outlined (3) 28:6;170:13;226:7 outproduce (1) 228:23 output (1) 232:11 outreach (1) 20:7 outright (1)	oversight (3) 85:6;199:15;228:22 overstate (1) 200:17 overview (1) 60:24 overwhelm (4) 104:6;168:22; 173:10,24 owe (4) 115:5,6,7;251:13 own (17) 5:9,19;22:2;40:3,6; 64:2;82:5;92:20; 100:7;110:18;121:19; 141:9;186:11;200:25; 238:14;247:20; 253:16 owned (1) 238:7
47:19,22;48:2,14; 49:6;51:3,10,18,24; 52:1,2,4,5,9,17;53:24; 54:1,14,15,21,23,23; 55:1,3,15;56:20; 57:13,14,15,18,25; 58:1,2,5;59:3,15,25; 60:9;61:20,21;63:24; 64:1,3,5,8,11,12,13, 17,21,22;65:1,1,16; 66:8;67:14,15,17,18, 24;68:2;69:17,21; 70:23;71:5,7,10,11, 21,25;72:1,5,16,19, 22,25;73:1,16,21; 77:5;78:23;80:2,3,6,9, 12;82:14;83:2,9,14, 23;84:17;85:16,18; 86:3;87:9,13,13,17, 17,17,20,22,23,24; 88:1,5,6,13,17,20;	$\begin{array}{l} 178:2,5,11;182:6,6,\\ 11,12,14,16,20,21,24;\\ 183:1,10,20,22,24;\\ 184:2,4,20,21;185:25;\\ 186:18;188:6,10;\\ 189:15,21;190:3,10,\\ 11,16;191:17,21,25;\\ 192:1,22;197:1,10,16,\\ 20;199:9,10,12,14;\\ 201:10,24;202:20,22,\\ 25;203:6,8,25;204:3,\\ 10,10,12,16,19,24;\\ 205:2,14;207:14,23;\\ 211:8,11,12,13,14,18,\\ 21;212:1,3,4,5,6,10,\\ 11,13,17,19,20,24,25;\\ 214:1,10;216:5,6,22;\\ 217:4,8;219:20,23,25;\\ 220:3,6,10,12,15,18,\\ 21;221:2,3,4,6,15,22;\\ 222:8,11;223:11,17,\\ \end{array}$	Orlando (1) 202:17 ortho-phthalates (4) 236:1,7;238:1,5 Osowitz (3) 70:12;75:10;95:17 OSP (2) 129:18;130:4 OSPA (3) 119:11,11,18 others (8) 16:22;17:4;31:22; 42:21,22;44:6; 105:23;121:20 Otherwise (5) 66:20;101:5;169:9; 220:17;225:1 ounces (2) 195:17,18 ours (2) 41:25;62:19	outcome (1) 217:16 outcomes (2) 169:8;219:15 outlet (2) 78:20;241:8 outlets (5) 59:5;78:2,3;98:19; 138:13 outline (1) 68:20 outlined (3) 28:6;170:13;226:7 outproduce (1) 228:23 output (1) 232:11 outreach (1) 20:7 outright (1) 81:10	oversight (3) 85:6;199:15;228:22 overstate (1) 200:17 overview (1) 60:24 overwhelm (4) 104:6;168:22; 173:10,24 owe (4) 115:5,6,7;251:13 own (17) 5:9,19;22:2;40:3,6; 64:2;82:5;92:20; 100:7;110:18;121:19; 141:9;186:11;200:25; 238:14;247:20; 253:16 owned (1) 238:7 owner (3)
$\begin{array}{r} 47:19,22;48:2,14;\\ 49:6;51:3,10,18,24;\\ 52:1,2,4,5,9,17;53:24;\\ 54:1,14,15,21,23,23;\\ 55:1,3,15;56:20;\\ 57:13,14,15,18,25;\\ 58:1,2,5;59:3,15,25;\\ 60:9;61:20,21;63:24;\\ 64:1,3,5,8,11,12,13,\\ 17,21,22;65:1,1,16;\\ 66:8;67:14,15,17,18,\\ 24;68:2;69:17,21;\\ 70:23;71:5,7,10,11,\\ 21,25;72:1,5,16,19,\\ 22,25;73:1,16,21;\\ 77:5;78:23;80:2,3,6,9,\\ 12;82:14;83:2,9,14,\\ 23;84:17;85:16,18;\\ 86:3;87:9,13,13,17,\\ 17,17,20,22,23,24;\\ 88:1,5,6,13,17,20;\\ 89:15,17;90:9,15,24;\\ \end{array}$	$\begin{array}{l} 178:2,5,11;182:6,6,\\ 11,12,14,16,20,21,24;\\ 183:1,10,20,22,24;\\ 184:2,4,20,21;185:25;\\ 186:18;188:6,10;\\ 189:15,21;190:3,10,\\ 11,16;191:17,21,25;\\ 192:1,22;197:1,10,16,\\ 20;199:9,10,12,14;\\ 201:10,24;202:20,22,\\ 25;203:6,8,25;204:3,\\ 10,10,12,16,19,24;\\ 205:2,14;207:14,23;\\ 211:8,11,12,13,14,18,\\ 21;212:1,3,4,5,6,10,\\ 11,13,17,19,20,24,25;\\ 214:1,10;216:5,6,22;\\ 217:4,8;219:20,23,25;\\ 220:3,6,10,12,15,18,\\ 21;221:2,3,4,6,15,22;\\ 222:8,11;223:11,17,\\ 17;225:8,11;226:22;\\ \end{array}$	Orlando (1) 202:17 ortho-phthalates (4) 236:1,7;238:1,5 Osowitz (3) 70:12;75:10;95:17 OSP (2) 129:18;130:4 OSPA (3) 119:11,11,18 others (8) 16:22;17:4;31:22; 42:21,22;44:6; 105:23;121:20 Otherwise (5) 66:20;101:5;169:9; 220:17;225:1 ounces (2) 195:17,18 ours (2) 41:25;62:19 ourself (1)	outcome (1) 217:16 outcomes (2) 169:8;219:15 outlet (2) 78:20;241:8 outlets (5) 59:5;78:2,3;98:19; 138:13 outline (1) 68:20 outlined (3) 28:6;170:13;226:7 outproduce (1) 228:23 output (1) 232:11 outreach (1) 20:7 outright (1) 81:10 Outside (8)	oversight (3) 85:6;199:15;228:22 overstate (1) 200:17 overview (1) 60:24 overwhelm (4) 104:6;168:22; 173:10,24 owe (4) 115:5,6,7;251:13 own (17) 5:9,19;22:2;40:3,6; 64:2;82:5;92:20; 100:7;110:18;121:19; 141:9;186:11;200:25; 238:14;247:20; 253:16 owned (1) 238:7 owner (3) 199:13;216:5;
$\begin{array}{c} 47:19,22;48:2,14;\\ 49:6;51:3,10,18,24;\\ 52:1,2,4,5,9,17;53:24;\\ 54:1,14,15,21,23,23;\\ 55:1,3,15;56:20;\\ 57:13,14,15,18,25;\\ 58:1,2,5;59:3,15,25;\\ 60:9;61:20,21;63:24;\\ 64:1,3,5,8,11,12,13,\\ 17,21,22;65:1,1,16;\\ 66:8;67:14,15,17,18,\\ 24;68:2;69:17,21;\\ 70:23;71:5,7,10,11,\\ 21,25;72:1,5,16,19,\\ 22,25;73:1,16,21;\\ 77:5;78:23;80:2,3,6,9,\\ 12;82:14;83:2,9,14,\\ 23;84:17;85:16,18;\\ 86:3;87:9,13,13,17,\\ 17,17,20,22,23,24;\\ 88:1,5,6,13,17,20;\\ 89:15,17;90:9,15,24;\\ 91:9,11;92:1,21;93:1,\\ \end{array}$	$\begin{array}{l} 178:2,5,11;182:6,6,\\ 11,12,14,16,20,21,24;\\ 183:1,10,20,22,24;\\ 183:1,10,20,22,24;\\ 184:2,4,20,21;185:25;\\ 186:18;188:6,10;\\ 189:15,21;190:3,10,\\ 11,16;191:17,21,25;\\ 192:1,22;197:1,10,16,\\ 20;199:9,10,12,14;\\ 201:10,24;202:20,22,\\ 25;203:6,8,25;204:3,\\ 10,10,12,16,19,24;\\ 205:2,14;207:14,23;\\ 211:8,11,12,13,14,18,\\ 21;212:1,3,4,5,6,10,\\ 11,13,17,19,20,24,25;\\ 214:1,10;216:5,6,22;\\ 217:4,8;219:20,23,25;\\ 220:3,6,10,12,15,18,\\ 21;221:2,3,4,6,15,22;\\ 222:8,11;223:11,17,\\ 17;225:8,11;226:22;\\ 228:1,3,4,5,8,13;\\ \end{array}$	Orlando (1) 202:17 ortho-phthalates (4) 236:1,7;238:1,5 Osowitz (3) 70:12;75:10;95:17 OSP (2) 129:18;130:4 OSPA (3) 119:11,11,18 others (8) 16:22;17:4;31:22; 42:21,22;44:6; 105:23;121:20 Otherwise (5) 66:20;101:5;169:9; 220:17;225:1 ounces (2) 195:17,18 ours (2) 41:25;62:19 ourself (1) 105:25	outcome (1) 217:16 outcomes (2) 169:8;219:15 outlet (2) 78:20;241:8 outlets (5) 59:5;78:2,3;98:19; 138:13 outline (1) 68:20 outlined (3) 28:6;170:13;226:7 outproduce (1) 228:23 output (1) 232:11 outreach (1) 20:7 outright (1) 81:10 Outside (8) 55:14;105:17;	oversight (3) 85:6;199:15;228:22 overstate (1) 200:17 overview (1) 60:24 overwhelm (4) 104:6;168:22; 173:10,24 owe (4) 115:5,6,7;251:13 own (17) 5:9,19;22:2;40:3,6; 64:2;82:5;92:20; 100:7;110:18;121:19; 141:9;186:11;200:25; 238:14;247:20; 253:16 owned (1) 238:7 owner (3) 199:13;216:5; 254:12
$\begin{array}{c} 47:19,22;48:2,14;\\ 49:6;51:3,10,18,24;\\ 52:1,2,4,5,9,17;53:24;\\ 54:1,14,15,21,23,23;\\ 55:1,3,15;56:20;\\ 57:13,14,15,18,25;\\ 58:1,2,5;59:3,15,25;\\ 60:9;61:20,21;63:24;\\ 64:1,3,5,8,11,12,13,\\ 17,21,22;65:1,1,16;\\ 66:8;67:14,15,17,18,\\ 24;68:2;69:17,21;\\ 70:23;71:5,7,10,11,\\ 21,25;72:1,5,16,19,\\ 22,25;73:1,16,21;\\ 77:5;78:23;80:2,3,6,9,\\ 12;82:14;83:2,9,14,\\ 23;84:17;85:16,18;\\ 86:3;87:9,13,13,17,\\ 17,17,20,22,23,24;\\ 88:1,5,6,13,17,20;\\ 89:15,17;90:9,15,24;\\ 91:9,11;92:1,21;93:1,\\ 3,3,5,12,19,25;94:1,5;\\ \end{array}$	$\begin{array}{llllllllllllllllllllllllllllllllllll$	Orlando (1) 202:17 ortho-phthalates (4) 236:1,7;238:1,5 Osowitz (3) 70:12;75:10;95:17 OSP (2) 129:18;130:4 OSPA (3) 119:11,11,18 others (8) 16:22;17:4;31:22; 42:21,22;44:6; 105:23;121:20 Otherwise (5) 66:20;101:5;169:9; 220:17;225:1 ounces (2) 195:17,18 ours (2) 41:25;62:19 ourself (1) 105:25 ourselves (6)	outcome (1) 217:16 outcomes (2) 169:8;219:15 outlet (2) 78:20;241:8 outlets (5) 59:5;78:2,3;98:19; 138:13 outline (1) 68:20 outlined (3) 28:6;170:13;226:7 outproduce (1) 228:23 output (1) 232:11 outreach (1) 20:7 outright (1) 81:10 Outside (8) 55:14;105:17; 112:18;152:8;200:23;	oversight (3) 85:6;199:15;228:22 overstate (1) 200:17 overview (1) 60:24 overwhelm (4) 104:6;168:22; 173:10,24 owe (4) 115:5,6,7;251:13 own (17) 5:9,19;22:2;40:3,6; 64:2;82:5;92:20; 100:7;110:18;121:19; 141:9;186:11;200:25; 238:14;247:20; 253:16 owned (1) 238:7 owner (3) 199:13;216:5; 254:12 owners (1)
$\begin{array}{c} 47:19,22;48:2,14;\\ 49:6;51:3,10,18,24;\\ 52:1,2,4,5,9,17;53:24;\\ 54:1,14,15,21,23,23;\\ 55:1,3,15;56:20;\\ 57:13,14,15,18,25;\\ 58:1,2,5;59:3,15,25;\\ 60:9;61:20,21;63:24;\\ 64:1,3,5,8,11,12,13,\\ 17,21,22;65:1,1,16;\\ 66:8;67:14,15,17,18,\\ 24;68:2;69:17,21;\\ 70:23;71:5,7,10,11,\\ 21,25;72:1,5,16,19,\\ 22,25;73:1,16,21;\\ 77:5;78:23;80:2,3,6,9,\\ 12;82:14;83:2,9,14,\\ 23;84:17;85:16,18;\\ 86:3;87:9,13,13,17,\\ 17,17,20,22,23,24;\\ 88:1,5,6,13,17,20;\\ 89:15,17;90:9,15,24;\\ 91:9,11;92:1,21;93:1,\\ 3,3,5,12,19,25;94:1,5;\\ 96:20,21;97:2,5,14,\\ \end{array}$	$\begin{array}{llllllllllllllllllllllllllllllllllll$	Orlando (1) 202:17 ortho-phthalates (4) 236:1,7;238:1,5 Osowitz (3) 70:12;75:10;95:17 OSP (2) 129:18;130:4 OSPA (3) 119:11,11,18 others (8) 16:22;17:4;31:22; 42:21,22;44:6; 105:23;121:20 Otherwise (5) 66:20;101:5;169:9; 220:17;225:1 ounces (2) 195:17,18 ours (2) 41:25;62:19 ourself (1) 105:25 ourselves (6) 39:4;72:23;108:15;	outcome (1) 217:16 outcomes (2) 169:8;219:15 outlet (2) 78:20;241:8 outlets (5) 59:5;78:2,3;98:19; 138:13 outline (1) 68:20 outlined (3) 28:6;170:13;226:7 outproduce (1) 228:23 output (1) 232:11 outreach (1) 20:7 outright (1) 81:10 Outside (8) 55:14;105:17; 112:18;152:8;200:23; 211:19;228:11;230:1	oversight (3) 85:6;199:15;228:22 overstate (1) 200:17 overview (1) 60:24 overwhelm (4) 104:6;168:22; 173:10,24 owe (4) 115:5,6,7;251:13 own (17) 5:9,19;22:2;40:3,6; 64:2;82:5;92:20; 100:7;110:18;121:19; 141:9;186:11;200:25; 238:14;247:20; 253:16 owned (1) 238:7 owner (3) 199:13;216:5; 254:12
$\begin{array}{c} 47:19,22;48:2,14;\\ 49:6;51:3,10,18,24;\\ 52:1,2,4,5,9,17;53:24;\\ 54:1,14,15,21,23,23;\\ 55:1,3,15;56:20;\\ 57:13,14,15,18,25;\\ 58:1,2,5;59:3,15,25;\\ 60:9;61:20,21;63:24;\\ 64:1,3,5,8,11,12,13,\\ 17,21,22;65:1,1,16;\\ 66:8;67:14,15,17,18,\\ 24;68:2;69:17,21;\\ 70:23;71:5,7,10,11,\\ 21,25;72:1,5,16,19,\\ 22,25;73:1,16,21;\\ 77:5;78:23;80:2,3,6,9,\\ 12;82:14;83:2,9,14,\\ 23;84:17;85:16,18;\\ 86:3;87:9,13,13,17,\\ 17,17,20,22,23,24;\\ 88:1,5,6,13,17,20;\\ 89:15,17;90:9,15,24;\\ 91:9,11;92:1,21;93:1,\\ 3,3,5,12,19,25;94:1,5;\\ 96:20,21;97:2,5,14,\\ 16,18,18;98:8,19;\\ \end{array}$	$\begin{array}{l} 178:2,5,11;182:6,6,\\ 11,12,14,16,20,21,24;\\ 183:1,10,20,22,24;\\ 183:1,10,20,22,24;\\ 184:2,4,20,21;185:25;\\ 186:18;188:6,10;\\ 189:15,21;190:3,10,\\ 11,16;191:17,21,25;\\ 192:1,22;197:1,10,16,\\ 20;199:9,10,12,14;\\ 201:10,24;202:20,22,\\ 25;203:6,8,25;204:3,\\ 10,10,12,16,19,24;\\ 205:2,14;207:14,23;\\ 211:8,11,12,13,14,18,\\ 21;212:1,3,4,5,6,10,\\ 11,13,17,19,20,24,25;\\ 214:1,10;216:5,6,22;\\ 217:4,8;219:20,23,25;\\ 220:3,6,10,12,15,18,\\ 21;221:2,3,4,6,15,22;\\ 222:8,11;223:11,17,\\ 17;225:8,11;226:22;\\ 228:1,3,4,5,8,13;\\ 229:2,9,16,19;230:1,\\ 20,23,24,25;231:1,3,\\ 6,8,11,21,22;232:9,\\ \end{array}$	Orlando (1) 202:17 ortho-phthalates (4) 236:1,7;238:1,5 Osowitz (3) 70:12;75:10;95:17 OSP (2) 129:18;130:4 OSPA (3) 119:11,11,18 others (8) 16:22;17:4;31:22; 42:21,22;44:6; 105:23;121:20 Otherwise (5) 66:20;101:5;169:9; 220:17;225:1 ounces (2) 195:17,18 ours (2) 41:25;62:19 ourself (1) 105:25 ourselves (6) 39:4;72:23;108:15; 172:5;254:25;255:12	outcome (1) 217:16 outcomes (2) 169:8;219:15 outlet (2) 78:20;241:8 outlets (5) 59:5;78:2,3;98:19; 138:13 outline (1) 68:20 outlined (3) 28:6;170:13;226:7 outproduce (1) 228:23 output (1) 232:11 outreach (1) 20:7 outright (1) 81:10 Outside (8) 55:14;105:17; 112:18;152:8;200:23; 211:19;228:11;230:1 out-yielding (2)	oversight (3) 85:6;199:15;228:22 overstate (1) 200:17 overview (1) 60:24 overwhelm (4) 104:6;168:22; 173:10,24 owe (4) 115:5,6,7;251:13 own (17) 5:9,19;22:2;40:3,6; 64:2;82:5;92:20; 100:7;110:18;121:19; 141:9;186:11;200:25; 238:14;247:20; 253:16 owned (1) 238:7 owner (3) 199:13;216:5; 254:12 owners (1) 199:9
$\begin{array}{c} 47:19,22;48:2,14;\\ 49:6;51:3,10,18,24;\\ 52:1,2,4,5,9,17;53:24;\\ 54:1,14,15,21,23,23;\\ 55:1,3,15;56:20;\\ 57:13,14,15,18,25;\\ 58:1,2,5;59:3,15,25;\\ 60:9;61:20,21;63:24;\\ 64:1,3,5,8,11,12,13,\\ 17,21,22;65:1,1,16;\\ 66:8;67:14,15,17,18,\\ 24;68:2;69:17,21;\\ 70:23;71:5,7,10,11,\\ 21,25;72:1,5,16,19,\\ 22,25;73:1,16,21;\\ 77:5;78:23;80:2,3,6,9,\\ 12;82:14;83:2,9,14,\\ 23;84:17;85:16,18;\\ 86:3;87:9,13,13,17,\\ 17,17,20,22,23,24;\\ 88:1,5,6,13,17,20;\\ 89:15,17;90:9,15,24;\\ 91:9,11;92:1,21;93:1,\\ 3,3,5,12,19,25;94:1,5;\\ 96:20,21;97:2,5,14,\\ 16,18,18;98:8,19;\\ 99:2,23,25;100:11,12,\\ \end{array}$	$\begin{array}{llllllllllllllllllllllllllllllllllll$	Orlando (1) 202:17 ortho-phthalates (4) 236:1,7;238:1,5 Osowitz (3) 70:12;75:10;95:17 OSP (2) 129:18;130:4 OSPA (3) 119:11,11,18 others (8) 16:22;17:4;31:22; 42:21,22;44:6; 105:23;121:20 Otherwise (5) 66:20;101:5;169:9; 220:17;225:1 ounces (2) 195:17,18 ours (2) 41:25;62:19 ourself (1) 105:25 ourselves (6) 39:4;72:23;108:15; 172:5;254:25;255:12 out (117)	outcome (1) 217:16 outcomes (2) 169:8;219:15 outlet (2) 78:20;241:8 outlets (5) 59:5;78:2,3;98:19; 138:13 outline (1) 68:20 outlined (3) 28:6;170:13;226:7 outproduce (1) 228:23 output (1) 232:11 outreach (1) 20:7 outright (1) 81:10 Outside (8) 55:14;105:17; 112:18;152:8;200:23; 211:19;228:11;230:1 out-yielding (2) 64:12,19	oversight (3) 85:6;199:15;228:22 overstate (1) 200:17 overview (1) 60:24 overwhelm (4) 104:6;168:22; 173:10,24 owe (4) 115:5,6,7;251:13 own (17) 5:9,19;22:2;40:3,6; 64:2;82:5;92:20; 100:7;110:18;121:19; 141:9;186:11;200:25; 238:14;247:20; 253:16 owned (1) 238:7 owner (3) 199:13;216:5; 254:12 owners (1)
$\begin{array}{c} 47:19,22;48:2,14;\\ 49:6;51:3,10,18,24;\\ 52:1,2,4,5,9,17;53:24;\\ 54:1,14,15,21,23,23;\\ 55:1,3,15;56:20;\\ 57:13,14,15,18,25;\\ 58:1,2,5;59:3,15,25;\\ 60:9;61:20,21;63:24;\\ 64:1,3,5,8,11,12,13,\\ 17,21,22;65:1,1,16;\\ 66:8;67:14,15,17,18,\\ 24;68:2;69:17,21;\\ 70:23;71:5,7,10,11,\\ 21,25;72:1,5,16,19,\\ 22,25;73:1,16,21;\\ 77:5;78:23;80:2,3,6,9,\\ 12;82:14;83:2,9,14,\\ 23;84:17;85:16,18;\\ 86:3;87:9,13,13,17,\\ 17,17,20,22,23,24;\\ 88:1,5,6,13,17,20;\\ 89:15,17;90:9,15,24;\\ 91:9,11;92:1,21;93:1,\\ 3,3,5,12,19,25;94:1,5;\\ 96:20,21;97:2,5,14,\\ 16,18,18;98:8,19;\\ 99:2,23,25;100:11,12,\\ 18;101:13,13,15;\\ \end{array}$	$\begin{array}{llllllllllllllllllllllllllllllllllll$	Orlando (1) 202:17 ortho-phthalates (4) 236:1,7;238:1,5 Osowitz (3) 70:12;75:10;95:17 OSP (2) 129:18;130:4 OSPA (3) 119:11,11,18 others (8) 16:22;17:4;31:22; 42:21,22;44:6; 105:23;121:20 Otherwise (5) 66:20;101:5;169:9; 220:17;225:1 ounces (2) 195:17,18 ours (2) 41:25;62:19 ourself (1) 105:25 ourselves (6) 39:4;72:23;108:15; 172:5;254:25;255:12 out (117) 6:17,20;10:21;	outcome (1) 217:16 outcomes (2) 169:8;219:15 outlet (2) 78:20;241:8 outlets (5) 59:5;78:2,3;98:19; 138:13 outline (1) 68:20 outlined (3) 28:6;170:13;226:7 outproduce (1) 228:23 output (1) 232:11 outreach (1) 20:7 outright (1) 81:10 Outside (8) 55:14;105:17; 112:18;152:8;200:23; 211:19;228:11;230:1 out-yielding (2) 64:12,19 over (50)	oversight (3) 85:6;199:15;228:22 overstate (1) 200:17 overview (1) 60:24 overwhelm (4) 104:6;168:22; 173:10,24 owe (4) 115:5,6,7;251:13 own (17) 5:9,19;22:2;40:3,6; 64:2;82:5;92:20; 100:7;110:18;121:19; 141:9;186:11;200:25; 238:14;247:20; 253:16 owned (1) 238:7 owner (3) 199:13;216:5; 254:12 owners (1) 199:9 P
$\begin{array}{c} 47:19,22;48:2,14;\\ 49:6;51:3,10,18,24;\\ 52:1,2,4,5,9,17;53:24;\\ 54:1,14,15,21,23,23;\\ 55:1,3,15;56:20;\\ 57:13,14,15,18,25;\\ 58:1,2,5;59:3,15,25;\\ 60:9;61:20,21;63:24;\\ 64:1,3,5,8,11,12,13,\\ 17,21,22;65:1,1,16;\\ 66:8;67:14,15,17,18,\\ 24;68:2;69:17,21;\\ 70:23;71:5,7,10,11,\\ 21,25;72:1,5,16,19,\\ 22,25;73:1,16,21;\\ 77:5;78:23;80:2,3,6,9,\\ 12;82:14;83:2,9,14,\\ 23;84:17;85:16,18;\\ 86:3;87:9,13,13,17,\\ 17,17,20,22,23,24;\\ 88:1,5,6,13,17,20;\\ 89:15,17;90:9,15,24;\\ 91:9,11;92:1,21;93:1,\\ 3,3,5,12,19,25;94:1,5;\\ 96:20,21;97:2,5,14,\\ 16,18,18;98:8,19;\\ 99:2,23,25;100:11,12,\\ \end{array}$	$\begin{array}{llllllllllllllllllllllllllllllllllll$	Orlando (1) 202:17 ortho-phthalates (4) 236:1,7;238:1,5 Osowitz (3) 70:12;75:10;95:17 OSP (2) 129:18;130:4 OSPA (3) 119:11,11,18 others (8) 16:22;17:4;31:22; 42:21,22;44:6; 105:23;121:20 Otherwise (5) 66:20;101:5;169:9; 220:17;225:1 ounces (2) 195:17,18 ours (2) 41:25;62:19 ourself (1) 105:25 ourselves (6) 39:4;72:23;108:15; 172:5;254:25;255:12 out (117)	outcome (1) 217:16 outcomes (2) 169:8;219:15 outlet (2) 78:20;241:8 outlets (5) 59:5;78:2,3;98:19; 138:13 outline (1) 68:20 outlined (3) 28:6;170:13;226:7 outproduce (1) 228:23 output (1) 232:11 outreach (1) 20:7 outright (1) 81:10 Outside (8) 55:14;105:17; 112:18;152:8;200:23; 211:19;228:11;230:1 out-yielding (2) 64:12,19	oversight (3) 85:6;199:15;228:22 overstate (1) 200:17 overview (1) 60:24 overwhelm (4) 104:6;168:22; 173:10,24 owe (4) 115:5,6,7;251:13 own (17) 5:9,19;22:2;40:3,6; 64:2;82:5;92:20; 100:7;110:18;121:19; 141:9;186:11;200:25; 238:14;247:20; 253:16 owned (1) 238:7 owner (3) 199:13;216:5; 254:12 owners (1) 199:9

Min-U-Script®

Burke Court Reporting & Transcription (973) 692-0660

(30) optionality - P&L

pace (1)249:23 Pacific (1) 4:10packages (1) 41:20 packaging (1) 241:5 page (2)8:9:76:24 paid (9)52:21;98:25;99:1,7; 160:13,17,18;161:5; 236:4 pain (12) 32:8,9,11,15,16,18; 38:17;67:19,22;68:1; 103:14;161:1 pandemic (1) 129:22 Panel (2) 67:13;92:19 paper (5) 74:8;155:15; 212:10;241:19,20 paperwork (8) 14:23;31:24;51:17; 134:22;161:1;162:8; 190:14.20 paperwork's (1) 139:4 parallels (2) 185:25:205:13 parameter (1) 37:15 parameters (1) 204:13 parasite (4) 31:4;33:22;43:17; 68:21 parasites (1) 33:25 parasiticide (2) 45:25;68:25 parasiticides (7) 32:25;33:21;38:16; 44:7;68:14;91:14; 129:10 parasitism (2) 68:15;69:1 Pardon (1) 25:16 parents (1) 14:2Paris (1) 28:6 part (41) 4:25;5:3;14:9; 16:15;17:19;18:15; 23:13:28:8:31:15: 34:24;36:24,25;37:2; 39:5;43:4;46:22;51:6; 52:3;70:23;94:7;99:6;

103:7;113:9;123:12; 151:2 patience (3) 126:8;129:5;133:4; 141:17;143:21;174:6; 121:10;123:7; 184:23;187:13; 256:15 188:23;219:19;220:4, patterns (1) 28:46;221:5;237:24; 245:12;246:3;255:23 Paul (1) partially (1) 167:12 Pause (2) 196:23 participant (2) 118:17,22 7:3;27:3 paved (1) participate (2) 84:6 8:2;71:24 pay (3) participated (2) 188:2;193:3,11 185:15;216:20 paying (5) participating (1) 98:25;163:11; 251:22;252:16,17 198:5 particular (6) payments (1) 39:24;87:25; 99:3 124:22;146:25;175:4; PD (1) 242:9 207:24 particularly (9) peak (1) 33:24;56:11;109:5; 163:1 128:11,13;131:17; peanut (2) 132:8;153:9;212:8 59:21;60:24 parties (2) peanuts (13) 102:9;242:14 57:13;59:10,21,23; 60:6,14;61:11,15,19, partly (2) 100:15;228:9 20,20;62:17;163:9 partner (1) peas (1)184:19 254:21 peddled (1) partnering (1) 222:8 122:18 partners (5) peel (1) 67:11;202:21,24; 180:17 205:17;206:18 penalty (1) partnership (3) 102:19 pencil (1) 108:7,17;204:15 parts (8) 216:25 65:9:242:16,18,25; penciling (1) 243:1,4,4,5 197:25 party (1) penny (1) 242:16 139:3 pass (2) people (57) 215:22;252:19 4:4;8:2,3;11:19; passed (3) 15:8;16:12;36:17; 14:18;35:18;84:5 49:25;51:15;63:1; passion (1) 74:8,13;75:15,16; 38:15 79:3;80:18;88:17,23; **past** (8) 93:16;94:18;98:8,20, 55:19;74:22; 22:99:5,6,12,14,15; 138:13;157:8;169:5; 100:17;102:12;104:8, 200:12;236:3;238:19 9;112:12;118:8; pasture (2) 131:21;134:19;135:5, 14:15;70:1 21;139:1,17;143:7; pastures (2) 144:12;146:5;160:23; 40:1;45:10 161:2;164:9;166:12; patentable (1) 182:16;184:1;189:13; 43:5 190:18,19;207:13; path (3)208:2,9,13;242:1 24:23;127:11; people's (3) 222:21 8:24;13:6;167:7 pathogenic (1) per (15)

48:6,7;65:9;120:11; 195:17.18:234:4: 242:16,18,25;243:1,4, 4.5:245:13 peracetic (8) 46:24,25;47:3,9,11, 14,17,18 perceive (1) 220:15 perceived (1) 129:16 percent (42) 42:19;51:12,13,13; 52:7;53:16;54:12,21; 56:1,2;65:15;78:9; 79:15;93:3;97:17; 101:25,25;104:18; 120:5,6,8;122:17,18, 21,21;140:1;149:3, 21;154:21;160:1; 161:4;185:21;188:10; 192:5,11,19,25; 195:18;196:25;199:9; 218:7;244:4 percentage (3) 213:15;243:9;244:5 perfect (2) 128:22;227:25 perform (1) 84:16 performance (1) 99:24 perhaps (10) 86:16:90:7:102:16: 114:14:115:2:117:21; 175:14;181:10; 246:20;254:12 period (14) 12:1;22:12,16,18; 32:17:36:7:74:7.18: 173:17;228:17; 231:12,14,21;232:16 periodic (2) 225:17,25 periods (1) 72:2 permanent (1) 137:1 permit (1) 161:9 permitted (1) 12:4 permitting (1) 240:11 peroxide (1) 68:6 person (8) 4:16;8:7;12:12; 73:7;88:4;93:11,14; 169:15 personal (5) 5:20,25;8:18;12:6; 217:20

- Vol. 2 April 25, 2024

personally (4) 128:25:129:12: 240:4;241:11 personnel (1) 226:6 Persons (1) 12:1 perspective (21) 55:12;92:21;97:14, 15,23;98:17;100:2; 108:11;111:19;113:7, 8;125:24;126:4; 152:24;164:20; 173:21;179:22; 214:22;224:3;251:21; 252:15 perspectives (8) 11:17,18;107:19, 21;108:6;109:9,14; 113:2 pertaining (1) 154:25 pertains (1) 240:7 pest (1) 199:23 pesticide (5) 103:2;199:18; 225:16,17,25 pesticide-free (1) 101:22 pesticides (6) 91:13:101:19; 120:17;127:3;157:18; 226:13 pests (2) 86:17;131:19 **Pete (8)** 208:19;210:24; 216:2,4;218:11,17,21, 24 Peter (14) 46:6,13;56:25;57:2, 4,10,12;58:7,10; 60:16,21,25;61:5; 63:18 Peter's (1) 57:3 petition (13) 31:7,9,18,20;32:7; 48:11:67:16,17; 170:5;235:23;238:14; 239:6;240:7 petitioned (2) 32:13;239:1 Petrey (10) 10:7,8;25:10,16,18, 22;49:10;50:8,11,13 **PFAS (13)** 235:24;236:1,7,13; 237:14;239:2;242:10, 17,21;243:2,3,22; 245:13

- Vol. 2 April 25, 2024

Spring 2024 Meeting	
PFAS- (1)	
236:19 phase (1)	pi
104:7	pi
phone (29) 4:19;5:1;6:16,18;	pi
7:4,5;9:6,9;10:22;	_
13:20,21;17:11; 26:17,18;27:3;50:19;	pi
57:5;66:18;75:15; 96:7;97:1;101:4;	pi
107:10;118:20;119:1;	pi
123:8,12;184:24; 256:8	pi
phone-only (1)	
75:16 phonetic (1)	pl
39:24 phosphates (1)	pl
150:1	
phosphoric (1) 47:6	
phosphorus (1)	
150:1 photodermatitis (1)	pl
150:23	pl
phrase (2) 30:7;194:24	
phthalates (2)	Pl
237:14;244:1 physical (1)	Pl
68:22 physiology (1)	pl
250:24	•
picked (2) 40:5;79:2	
picture (3) 83:13;84:1;153:4	
pie (1)	
163:13 piece (9)	pl
38:25;81:16;108:3;	Pl
111:5,7,14;146:14; 188:1;241:21	pl
pieces (3)	
24:6;193:22;242:7 Pier (1)	pl
131:8 piggyback (1)	pl
250:10	
pigs (1) 252:2	pl
pile (2)	pl
171:12;243:23 piles (1)	pl
171:9 pin (1)	-
7:14	pl
pinpoint (1) 206:1	
Pioneer (2)	-
54:20;98:4 pioneered (2)	pl
-	

64:10;90:19	plas
pe (1)	23
193:22	13
peline (1)	18
155:23 ping (1)	plau 84
238:2	play
tch (1)	1
134:17	14
tching (1)	play
69:17	15
thiest (1) 218:23	65 13
218.25 (thy (2)	12
191:5,5	15
acard (1)	19
155:13	20
ace (14)	22
63:1;73:2;86:8;	22
108:14;116:8;156:18; 169:20;200:13,23;	24 25
201:9,13,15;207:4;	Plea
210:9	5:
aced (1)	8:
64:8	18
aces (4)	24
66:1;79:10;104:21; 144:14	32 40
lain (1)	40 53
214:15	60
lains (2)	74
96:21;100:9	82
an (21)	88
8:7;31:4;33:14; 34:13,17,17,21,22;	92 10
35:2;42:17;43:18,19;	12
45:8,11,12;46:1;	13
104:16;110:19;	13
118:12;189:5;203:3	14
ane (1) 205:9	16 15
205:9 lanet (1)	1.
217:18	16
anning (1)	17
144:10	17
ant (5)	18
31:19;86:21;	19
133:24;181:7;240:10 anted (2)	19 21
70:20;157:12	21
anter (1)	2
254:14	22
anting (1)	23
255:15	23
ants (5) 31:15;133:20;	24 plea
193:21;201:25;246:5	1(
astic (10)	plen
1(1.10.22(.5.12	21
21;238:1,3,11;239:2;	plen
241.23,242.1	. 84
asticizers (1)	plus

plastics (17)	4
plastics (12) 235:23;236:9,12,	pm ⁴
13;237:8,12,13;241:6,	рш 9
18;244:3;245:7,11	2
plausible (1)	poc
84:19	9
play (5)	pod
111:3;114:9,15,24;	2
143:8	poir
playing (32)	1
15:9;62:23;64:25;	3
65:17;66:6;97:13;	4
137:14,16;139:21;	74
142:12,24;143:9;	1
155:3;162:23;182:11,	1.
19;183:17,23;185:25;	1
201:25;209:7,25;	1
220:16;221:13;223:9;	13
229:23;233:23;235:4;	2
248:3,15;251:22;	poir
255:12	10
Please (102)	poir
5:15;6:14;7:7,12;	1.
8:19;12:13;16:4,17;	poir
18:22;20:19;22:25;	52
24:1;25:1,9;31:18;	14 15
32:5,18,21;35:6; 46:16;48:17;49:9;	pois
53:1;54:3;55:9;58:9;	pois 9
60:22;72:12;73:5;	pois
74:2;77:19;79:24;	6
82:9;85:11;86:12;	pois
88:22;89:2;91:2;	8
92:13;98:15;99:18;	poli
105:6;113:17;116:11;	2
121:12;122:8;125:22;	Poli
130:11;132:14;	8
135:25;138:3;139:7;	poli
142:18;146:11;148:5,	8
16,20;149:14;150:7;	9
151:6,23;152:17;	2
156:3;158:20;159:3;	poli
162:19;165:1;166:20;	2
172:10;173:6;174:10; 176:12,23;186:25;	poll
187:10;189:18;	2. nolv
193:17;194:21;	poly 2
196:21;198:2;205:6,	poly
21;206:22;211:2;	2
213:10;214:4;215:20;	poo
219:7;221:9;222:4;	2
224:11,24;226:7,24;	1
230:15;238:17,23;	poo
239:21;242:23;244:8;	1
249:12;253:4	poo
pleasure (2)	2
100:24;101:15	poo
plentiful (1)	1:
212:17	pop
plenty (3)	1
84:25;192:7,7	pop
plus (4)	9
81:17;114:7;149:3,	pop

(5) 6:1,1:191:8,8; 56:23 kets (1) 0:12 lcasts (1) 21:15 nt (30) 9:11:20:10:34:10; 5:17;36:24;38:15; 9:19;53:11;59:11; 4:10;88:10,16;95:3; 11:9;125:8;131:10; 32:9;142:2;153:15; 63:10;168:22; 69:15;174:5;179:7, 8;185:9;200:12; 05:3;206:17;250:16 nted (1) 05:8 nting (1) 32:20 nts (9) 2:24;145:8; 47:22;157:9,23; 58:8,22;200:7;248:1 son (1) 1:15 soning (1) 8:5 sons (1) 8:8 ice (1) 47:19 icies (3) 3:14;11:24;22:6 icy (8) :5;11:24;28:1; 7:11:108:10:125:3; 33:12;235:20 icvmakers (2) 8:13;108:19 lution (1) 36:21 yethylene (1) 35:24 ymers (1) 44:10 or (5) 2:5;28:8;187:20; 97:19;234:25 orer (1) 53:14 orest (1) 29:7 orly (1) 53:5 **)** (1) 07:6 oulation (2) 0:18:105:16 pop-up (1)

6:22 pork (5) 71:5;72:16,19,19, 22 port (4) 131:1,2;132:1; 186:9 portfolio (1) 190:1 portion (1) 188:22 ports (6) 120:7;130:16; 131:1,21;229:20; 234:15 pose (1) 152:25 posed (1) 185:3 poses (1) 77:5 position (4) 8:19;34:22;170:5; 217:21 positioning (1) 188:13 positions (2) 216:16;232:8 positive (2) 198:13,14 positives (1) 33:6 **Possibilities (2)** 85:6;86:7 possible (8) 52:18;68:4;92:22; 93:23;114:17;140:11; 174:5;175:25 possibly (4) 162:7;190:12; 214:23;243:16 post (4) 6:8,9,11;155:11 **post-** (1) 206:16 posted (1) 8:11 poster (1) 102:15 post-harvest (3) 206:2,3,13 potential (7) 33:6;64:21;121:14; 183:22;212:11; 245:21;248:20 potentially (7) 86:15;129:7;171:6; 174:2;200:15;205:11; 222:20 potentials (1) 151:10 poultry (11)

244:2

36:24;37:5;41:21;

47:20;48:20;148:4,8, precursor (1) 10.14.15:151:8 232:3 pound-and-a-half (1) prefer (2) 138:18 250:10.11 pounds (4) premium (1) 48:6:133:10; 129:4 196:18,18 premiums (1) powder (1) 129:8 204:16 prepaid (1) powders (8) 120:21 202:22,25;203:1, preparation (1) 179:5 11,25;204:10,12,21 Powell-Palm (90) prepare (1) 10:10,11;18:23; 12:13 19:7,16,22,24;20:2,5, prepared (1) 11,15;21:4;23:1,19; 119:25 25:25;26:4,7;32:22; preparing (1) 33:16;38:12;40:17; 174:18 41:10;48:18,25;49:7; prescriptive (1) 61:4;62:7,13;63:14; 129:24 65:21:66:11:69:8; presence (2) 70:8;74:3;75:2,9; 103:5;116:15 79:25;80:24;81:16; present (5) 82:7;91:3,23;92:10; 103:18;105:3;123:11; 232:6;244:6 presentation (3) 132:15;134:11;135:6, 10;139:8,20;140:2,8; 92:16;153:4,23 142:19;143:11; presented (2) 145:15;146:9;150:8, 36:9;176:7 17:151:4:159:4.10; presenters (1) 162:20:164:19; 137:8 presenting (3) 181:25:183:14:184:3: 189:19.25;190:6.8.25; 193:18;194:19; preserved (2) 205:22;206:21; 124:12:211:9 President (3) 218:23;221:10;222:1; 227:7,12;235:10; 119:13:148:2; 245:6;246:7,16; 230:19 251:6;252:10,25; pressed (1) 255:20 14:7 power (3) pressure (13) 35:8:104:24:161:18 practical (1) 187:3 practicality (1) 172:16 pressures (4) practice (4) 109:11;112:9; 189:13;191:21; 117:25;233:21 198:8;220:4 pretty (16) practices (25) 22:12,16;28:15; 30:4;43:18,25;68:15; 90:9,22;139:10; 112:20,23;155:9,10; 171:8;193:1;203:17; 204:23;219:21;220:6, 214:20 7,22;222:22;226:5,21, prevalent (1) 22;254:17;255:11 185:16 practicing (1) prevent (3) 148:4 pragmatic (1) preventative (1) 38:3 43:18 precautionary (1) prevented (1) 29:22218:1

prevention (4) 43:17;124:8;155:9; 199:22 previous (4) 34:5:133:3:186:15; 229:17 previously (1) 247:13 price (30)55:14,17,23,24; 56:3;60:4;77:10; 78:11;79:14;81:22; 104:18;129:4,7; 133:5,6,16;142:2; 144:25,25;156:19; 164:18;192:12,23; 193:9;194:16;217:5; 233:21;252:6;253:10, 11 prices (27) 22:17;32:1,4;55:19; 60:9,9;61:13;76:24; 104:11,12,13,17; 12:9;21:22;169:8; 128:24;137:6,10; 139:15;145:2,7; 146:7;165:22;182:22; 212:1;220:11;221:13; 223:19,22;233:17 pricing (9) 56:4:76:10:97:20; 120:13:209:12; 211:11:249:18: 168:6,14;207:25 250:12,13 pride (2) 43:20;255:3 primarily (7) 83:3;124:5,8; 126:13,15;127:7; 247:12 primary (2) 83:7.9 30:2;107:24;108:5, principal (1) 14;188:20,24,25; 219:11 189:4;193:14,20; principle (1) 29:22 197:22;249:16,22 principles (3) 28:18;29:6,16 prior (2) 169:17;229:20 15:17;33:23;65:25; priorities (6) 41:17;207:1,11,19; 73:21;78:25;81:13; 208:6.14 161:2;167:8;171:1; prioritize (1) 174:16;187:17;204:4; 28:22 priority (3) 41:25;85:7;207:20 private (1) 112:22 33:9;124:21;217:14 private-sector (1) 229:9 privilege (1) 218:13 privileged (1)

28:16proactive (1) 217:21 proactively (1) 125:3 probably (35) 15:4,7,11;17:23; 18:11:20:16,17; 23:10;25:20;44:8; 51:13:52:10:54:1.25; 62:19;71:6;73:17; 76:21,24;78:10;81:6; 82:3:91:12:97:7: 99:13;104:23;134:6; 151:12;152:11; 165:12;185:14; 192:25;197:11;227:8; 252:21 probe(1) 76:18 problem (32) 18:4,15;19:4,4,5; 29:3;34:25;39:17; 43:3;44:3;46:15;50:3; 56:21,22;57:20; 64:17;69:19;79:22; 82:16;190:15;195:20, 21;217:15;218:1; 219:10;236:6;237:25; 238:4:244:6:245:24; 251:21,25 problems (14) 6:4,6:14:17,22; 16:15;28:12,24;31:4; 36:2;80:20;150:22; 151:3;153:11;183:25 procedure (1) 130:17 Procedures (12) 8:14;11:24;22:6; 68:7,9;85:5;124:21, 23:125:4:199:21; 225:23;232:5 process (27) 8:5,17;24:9;31:7,9; 72:22;85:3,5;101:13; 117:13,19,20;118:1; 122:23;141:2;146:16; 155:18,21;175:18; 198:5;208:12;210:17; 212:16;217:7;226:7; 239:8:255:23 processed (7) 128:12;153:6,8; 199:25;200:1;204:10; 213:1 processers (1) 141:16 processes (3) 141:8;213:6;240:20 processing (15) 17:12,14;47:4; 72:15;122:17;128:23; - Vol. 2 April 25, 2024 136:9,14;156:22; 204:3,25;206:18; 212:4;241:4;242:20 processor (4) 18:12,14;199:9; 206:16 processors (7) 14:24;18:7;40:12; 103:12;119:10; 157:21;228:3 procure (1) 124:2

produce (31) 54:20,25;62:14,17; 77:3;133:10;137:9; 158:24;165:13;166:7, 9;185:24;204:13,20, 21;212:5;230:20,23; 231:1,3,9,10;237:12; 244:3;246:1;248:8, 10,17,19;250:18; 255:24 produced (15)

119:14;181:10; 185:11,21;187:22; 188:10;203:7;211:22, 24;212:3,19;213:1; 218:5;249:1;253:13 **producer (33)** 42:16;44:24;45:8, 18;49:13;83:2;85:24;

87:9.9.25:90:21: 92:17:96:18:98:21; 134:22;136:25;148:3; 151:21,22;200:8,9,24; 202:2;208:23;211:16, 23;212:14;213:3,24; 222:15;223:12; 247:11 producers (65) 31:12;32:4;34:16; 41:2;44:9,19;53:6,14; 54:14,15;64:13,23; 67:18;69:21;73:1; 79:6;83:6,13;87:22; 96:20;100:11;104:6; 124:3;126:10;128:18, 21,25;129:9,21; 132:19,20,24;134:20, 21;136:20;137:1,8,13, 20;138:11;143:22; 149:22;156:10; 157:20;160:11; 161:23,24;163:13;

232:20;248:2,15; 251:9 producers' (1) 161:18 producer-supported (1)

194:7,8;201:2;

186:4;190:3;192:3,4;

211:19;212:21;213:6;

223:20;228:4;231:7;

Burke Court Reporting & Transcrip(in) pound-and-a-half - producer-supported (973) 692-0660

31:8	213:14;220:21;
producing (9)	223:17,23;232:10
52:5;53:24;55:2;	236:14;240:11;24
120:10;154:17;	14,19;242:10;249
185:24;186:8;238:5;	17,23,24;251:2;
250:24	253:10
product (43)	product's (1)
28:16;30:25;31:14;	201:7
40:23;45:19;73:16,	professor (1)
19,21;90:21;100:8;	202:19
105:11;131:15,16;	profit (2)
	187:15;252:8
137:17;138:10;	
141:17,19;149:1;	profitability (1)
155:4;195:16,16,17,	83:24
21,24;199:16,19;	profitable (2)
200:3,17;203:24;	77:7;137:10
204:22;205:18;	profitably (1)
206:15,20;209:14;	212:24
240:16;241:24;	profiting (1)
244:21;246:1;248:14;	229:25
249:1;250:13;253:12,	profound (1)
20	219:21
production (71)	Program (40)
28:14;31:25;39:9;	7:21;22:5,6,7,9;
40:23;41:1;47:1;	
	23:9,13,15,17;24
48:12,12,14;49:25;	26:1;41:6;43:12;
52:11;53:7,10,12,17;	55:22;71:13,15;
54:18;64:18,21;	74:20,25;87:20;
67:14,24;68:2;72:17;	88:12;94:5;97:2;
75:6;83:11;86:10;	104:8;109:1,4,10
119:21;120:13;	137:1;138:8;155:
132:25;139:12,16,18,	21;160:2,6,15;161
23;157:22;168:20;	23;165:7;211:18;
173:2;175:7;182:7;	229:14;230:24;
186:18;187:15,16,24,	241:12
25;191:25;192:13,16,	programs (10)
24;194:12;195:6;	23:3;24:10,13;
196:7;199:15;203:11,	71:24;83:21,22;9
19;211:7,15;212:2,4,	13;164:9;197:15
6,6,22;213:1;214:1;	program's (2)
215:5;220:5;224:8;	93:5,25
231:11,15;232:22;	
	progress (3)
247:12;248:4;250:3;	116:9;167:16;230
255:2	progressive (1)
productive (2)	220:1
104:24;254:25	
·	prohibited (8)
productivity (1)	43:20;152:4;
151:17	225:25;229:20;
products (70)	
	231:13,16;232:1,
17:17;37:2,6,7,11;	prohibition (2)
42:2;44:19;59:6,6,9;	47:5;170:17
69:18;78:20;79:20;	prohibitive (2)
98:19;102:14;126:3;	127:3;200:10
130:17,20;138:14,18;	Project (6)
141:11,21;142:8,9,22;	15:8;33:23;159:1
148:22;154:19;158:7,	25;208:1,2
13,24;171:24;172:18;	promise (2)
174:25;175:3,13;	29:15;201:14
177:5,21;178:5,10;	promising (1)
182:15;185:24;188:9;	208:15
199:14;200:1;201:4,	promote (2)
11,18;203:12;211:8,	57:17;158:24
22,24;212:13,19;	prop (1)

87:23 2:10; propaganda (1) ;241:7. 30:2 249:5. proper (1) 44:15 properly (2) 43:2;45:22 proposal (3) 161:19;232:7,12 proposed (3) 17:1;168:15;240:9 proposition (4) 160:24;221:19,20; 252:1 proprietary (5) 100:7;172:20; 174:18;176:1,7 props (1) 91:4 protect (8) 30:3;109:20; 124:16;141:7;142:6; 155:3;229:13,18 protecting (2) 24:7; 30:8;229:19 2; protection (1) 165:25 protectionist (1) 2; 66:5 ,10; protects (1) 55:16, 108:21 161:16. protein (13) 18; 36:14:120:15.20; 148:25;149:1,3,9; 150:13,24;151:1; 250:21,25;251:2 proteins (1) 2;90:6, 152:12 protocols (1) 125:11 proud (1) 108:17 230:4 provable (1) 154:17 prove (4) 61:18;137:19; 196:1;210:5 proves (1) :1,2 61:22 provide (19) 8:20;16:23;41:23; 67:7,18;69:4;83:20; 103:13;155:6,10; 156:18;157:14; 9:17, 168:11;213:13; 214:12;219:15,21; 232:4;249:17 provided (3) 198:4;231:17; 256:12 provides (4) 32:17;67:25;154:8; 223:25

providing (5) 12:5:60:25:136:20: 219:23:222:18 **Proving** (1) 102:5 Proxy (1) 12:4 psyched (1) 173:16 puberty (1) 91:18 public (13) 4:14,25;5:3,4;7:23; 11:25;12:3,5,7;87:12; 88:3;180:3;245:1 public-private (1) 108:7 publish (1) 72:4 pull (3) 37:18;117:8,12 pulses (1) 70:23 punch (1) 135:1 punish (1) 102:12 punished (2) 102:14,17 punishes (2) 102:9:166:13 punishment (2) 102:25;103:10 punt (1) 224:14 purchase (1) 247:23 purchased (2) 102:1;146:2 Purdue (1) 148:2 pure (2) 200:18;248:14 purely (2) 37:21;244:19 purity (1) 124:14 purpose (1) 122:22 purposes (1) 150:1 pursue (4) 54:22;56:13;190:3; 216:21 pursued (1) 212:22 pursuing (1) 219:16 purview (2) 17:3;152:8 push (6) 37:19;117:16; 178:7;197:5;216:25;

- Vol. 2 April 25, 2024

244:22
pushed (2)
37:18;120:22
pushing (1)
63:5
put (51)
5:2;21:2,5,6,6,12,
15;35:23;36:8,19;
39:10;51:18,23;
53:25;58:1;66:18;
73:12,15;81:1;84:12;
85:25;86:22;92:5;
93:24;97:6;108:25;
114:7,11;118:25;
137:20;142:22;
146:20;148:18;153:3;
164:7;174:12;175:5;
176:9;186:10;195:9,
16;196:7,18;197:25;
203:3;210:10;236:19;
239:10;247:17;
248:24;252:15
puts (1)
104:7
putting (13)
83:14;95:23;
103:14;113:22;114:9;
146:17,21;182:25;
186:19;195:11;
196:11;201:13;245:8
puzzle (1)
108:3
108:3 puzzling (1) 174:15
108:3 puzzling (1)
108:3 puzzling (1) 174:15 Q
108:3 puzzling (1) 174:15 Q qualifier (1)
108:3 puzzling (1) 174:15 Q qualifier (1) 125:7
108:3 puzzling (1) 174:15 Q qualifier (1) 125:7 Quality (16)
108:3 puzzling (1) 174:15 Q qualifier (1) 125:7 Quality (16) 22:9;24:20;61:16;
108:3 puzzling (1) 174:15 Q qualifier (1) 125:7 Quality (16) 22:9;24:20;61:16; 78:16;79:13;168:13;
108:3 puzzling (1) 174:15 Q qualifier (1) 125:7 Quality (16) 22:9;24:20;61:16; 78:16;79:13;168:13; 204:10,13;205:1,19;
108:3 puzzling (1) 174:15 Q qualifier (1) 125:7 Quality (16) 22:9;24:20;61:16; 78:16;79:13;168:13; 204:10,13;205:1,19; 228:19;253:9,11,15,
108:3 puzzling (1) 174:15 Q qualifier (1) 125:7 Quality (16) 22:9;24:20;61:16; 78:16;79:13;168:13; 204:10,13;205:1,19; 228:19;253:9,11,15, 20,21
108:3 puzzling (1) 174:15 Q qualifier (1) 125:7 Quality (16) 22:9;24:20;61:16; 78:16;79:13;168:13; 204:10,13;205:1,19; 228:19;253:9,11,15, 20,21 quantitative (1)
108:3 puzzling (1) 174:15 Q qualifier (1) 125:7 Quality (16) 22:9;24:20;61:16; 78:16;79:13;168:13; 204:10,13;205:1,19; 228:19;253:9,11,15, 20,21 quantitative (1) 33:2
108:3 puzzling (1) 174:15 Q qualifier (1) 125:7 Quality (16) 22:9;24:20;61:16; 78:16;79:13;168:13; 204:10,13;205:1,19; 228:19;253:9,11,15, 20,21 quantitative (1) 33:2 Quarcoo (6)
108:3 puzzling (1) 174:15 Q qualifier (1) 125:7 Quality (16) 22:9;24:20;61:16; 78:16;79:13;168:13; 204:10,13;205:1,19; 228:19;253:9,11,15, 20,21 quantitative (1) 33:2 Quarcoo (6) 10:13,14;93:8;
108:3 puzzling (1) 174:15 Q qualifier (1) 125:7 Quality (16) 22:9;24:20;61:16; 78:16;79:13;168:13; 204:10,13;205:1,19; 228:19;253:9,11,15, 20,21 quantitative (1) 33:2 Quarcoo (6) 10:13,14;93:8; 172:11;179:14;
108:3 puzzling (1) 174:15 Q qualifier (1) 125:7 Quality (16) 22:9;24:20;61:16; 78:16;79:13;168:13; 204:10,13;205:1,19; 228:19;253:9,11,15, 20,21 quantitative (1) 33:2 Quarcoo (6) 10:13,14;93:8; 172:11;179:14; 215:21
108:3 puzzling (1) 174:15 Q qualifier (1) 125:7 Quality (16) 22:9;24:20;61:16; 78:16;79:13;168:13; 204:10,13;205:1,19; 228:19;253:9,11,15, 20,21 quantitative (1) 33:2 Quarcoo (6) 10:13,14;93:8; 172:11;179:14; 215:21 questionable (2)
108:3 puzzling (1) 174:15 Q qualifier (1) 125:7 Quality (16) 22:9;24:20;61:16; 78:16;79:13;168:13; 204:10,13;205:1,19; 228:19;253:9,11,15, 20,21 quantitative (1) 33:2 Quarcoo (6) 10:13,14;93:8; 172:11;179:14; 215:21 questionable (2) 84:22;228:11
108:3 puzzling (1) 174:15 Q qualifier (1) 125:7 Quality (16) 22:9;24:20;61:16; 78:16;79:13;168:13; 204:10,13;205:1,19; 228:19;253:9,11,15, 20,21 quantitative (1) 33:2 Quarcoo (6) 10:13,14;93:8; 172:11;179:14; 215:21 questionable (2) 84:22;228:11 questionably (1)
108:3 puzzling (1) 174:15 Q qualifier (1) 125:7 Quality (16) 22:9;24:20;61:16; 78:16;79:13;168:13; 204:10,13;205:1,19; 228:19;253:9,11,15, 20,21 quantitative (1) 33:2 Quarcoo (6) 10:13,14;93:8; 172:11;179:14; 215:21 questionable (2) 84:22;228:11 questionably (1) 213:1
108:3 puzzling (1) 174:15 Q qualifier (1) 125:7 Quality (16) 22:9;24:20;61:16; 78:16;79:13;168:13; 204:10,13;205:1,19; 228:19;253:9,11,15, 20,21 quantitative (1) 33:2 Quarcoo (6) 10:13,14;93:8; 172:11;179:14; 215:21 questionable (2) 84:22;228:11 questionably (1) 213:1 queue (1)
108:3 puzzling (1) 174:15 Q qualifier (1) 125:7 Quality (16) 22:9;24:20;61:16; 78:16;79:13;168:13; 204:10,13;205:1,19; 228:19;253:9,11,15, 20,21 quantitative (1) 33:2 Quarcoo (6) 10:13,14;93:8; 172:11;179:14; 215:21 questionable (2) 84:22;228:11 questionably (1) 213:1 queue (1) 12:12
108:3 puzzling (1) 174:15 Q qualifier (1) 125:7 Quality (16) 22:9;24:20;61:16; 78:16;79:13;168:13; 204:10,13;205:1,19; 228:19;253:9,11,15, 20,21 quantitative (1) 33:2 Quarcoo (6) 10:13,14;93:8; 172:11;179:14; 215:21 questionable (2) 84:22;228:11 questionably (1) 213:1 queue (1) 12:12 quick (12)
108:3 puzzling (1) 174:15 Q qualifier (1) 125:7 Quality (16) 22:9;24:20;61:16; 78:16;79:13;168:13; 204:10,13;205:1,19; 228:19;253:9,11,15, 20,21 quantitative (1) 33:2 Quarcoo (6) 10:13,14;93:8; 172:11;179:14; 215:21 questionable (2) 84:22;228:11 questionably (1) 213:1 queue (1) 12:12 quick (12) 11:23;51:2;89:18;
108:3 puzzling (1) 174:15 Q qualifier (1) 125:7 Quality (16) 22:9;24:20;61:16; 78:16;79:13;168:13; 204:10,13;205:1,19; 228:19;253:9,11,15, 20,21 quantitative (1) 33:2 Quarcoo (6) 10:13,14;93:8; 172:11;179:14; 215:21 questionable (2) 84:22;228:11 questionable (1) 213:1 queue (1) 12:12 quick (12) 11:23;51:2;89:18; 93:8;94:3;95:7,9,13;
108:3 puzzling (1) 174:15 Q qualifier (1) 125:7 Quality (16) 22:9;24:20;61:16; 78:16;79:13;168:13; 204:10,13;205:1,19; 228:19;253:9,11,15, 20,21 quantitative (1) 33:2 Quarcoo (6) 10:13,14;93:8; 172:11;179:14; 215:21 questionable (2) 84:22;228:11 questionably (1) 213:1 queue (1) 12:12 quick (12) 11:23;51:2;89:18;

Min-U-Script®

Burke Court Reporting & Transcription (973) 692-0660 (34) producing - quicker

quicker (1)

Spring 2024 Meeting	1			April 25, 202
249:22	ranch-owned (1)	reality (2)	108:9,11	recorded (1)
	71:7	206:5;250:16		6:7
quickly (3)			rearrange (1)	
155:16;238:19;	Randy (14)	realize (4)	5:20	recording (4)
242:25	102:15,17;135:22;	61:6;65:22;99:14;	reason (17)	6:7,8,9,9
quiet (2)	140:18;143:14;	221:6	14:9;15:13;34:9;	record-keeping (2)
13:5;163:4	147:13,14;148:1;	realizes (1)	60:4;62:8,25;126:8;	129:17;130:6
quit (1)	150:2,3,8;151:24;	217:11	134:18;135:10;	recovering (1)
102:2	152:18;153:22	real-life (1)	151:20;179:22,25;	129:21
quite (17)	Randy's (1)	187:4	180:1;185:4;207:5;	recovery (1)
15:3;17:20;44:18;	102:24	really (181)	229:1;250:18	121:2
52:5;55:19;62:11;	range (4)	11:16,19;16:21;	reasonable (6)	recruited (1)
69:11;74:19;99:25;	81:6;104:12,17,24	17:5;18:11,17;19:2;	33:1;36:10;37:20,	202:23
138:21;151:20;	rapeseed (1)	20:10;21:15;23:20;	23;38:3;252:7	recurring (1)
152:12;165:17;167:7;	189:2	26:11;33:5,19;34:2,4,	reasons (4)	31:5
189:4,8;205:12	rapid (1)	6,12,17;35:3,4;38:14;	178:12;193:1;	recycling (2)
quote (3)	153:6	39:6;40:4;41:10;	197:17;217:13	157:13;161:9
31:3,4;129:13	rapidly (1)	42:23,23;43:14;	reassessment (1)	Red (3)
quote- (1)	149:8	44:23,24;46:1;49:18,	169:5	216:5,24;229:10
121:14	rare (2)	23;50:7;55:11;60:15;	receive (4)	redoubled (1)
	103:21;159:21	61:5;62:7;63:14,16;	93:9;130:5;231:21;	94:1
R	rate (1)	65:23;66:11;69:9,21,	240:14	reduce (7)
	120:5	22,25;70:4,6;71:20;	received (4)	47:25;48:7;67:19;
R&D (1)	rates (5)	72:14;73:22;76:4,15;	31:17;32:4;136:12;	139:16,18;144:4;
208:7	14:7;37:22;203:7,9,	77:3,11,22;78:24;	170:14	245:21
radiated (1)	13	79:5,9;80:12;81:4,8,	receiving (1)	reduced (1)
158:3	rather (8)	10,15;91:4,12;92:9,9,	23:15	36:20
radiation (1)	28:15;33:11;	10;95:4;98:17;99:21;	recent (5)	reducing (1)
158:11	124:24;137:14;	100:19;104:15;105:3,	84:9;134:1;137:7;	212:2
radio (1)	142:25;173:2;213:5;	8;106:5;108:15;	220:9;229:15	reduction (5)
76:19	254:13	114:18;115:12;	recently (6)	120:11;171:9;
raft (1)	ration (3)	116:16;121:25;	47:8;94:5;136:12;	196:25;241:5,9
129:17	37:3,6;152:15	122:11;123:1;125:23;	142:3;211:13;238:20	reestablished (1)
rail (9)	rations (1)	127:15;129:4;130:6,	recently-submitted (1)	10:20
59:7,13;106:1,2,7;	48:21	14;133:23,24,24;	31:8	refer (3)
124:4;126:13,15,15	raw (7)	134:19;138:7;140:2,	receptive (1)	95:1;119:24;226:7
railcars (1)	169:18;199:24;	5;142:6;143:1;145:5;	126:20	referred (1)
144:19	200:3;203:12,24;	146:7,9;148:6;149:7;	recertification (1)	211:16
railroads (1)	206:15,20	150:11;151:2,3,4,15,	218:8	referring (1)
126:17	reach (4)	15;152:12,12,18;	recessed (3)	244:16
rain (1)	6:17,20;90:13;	153:7;158:22,25;	4:13;96:1;191:8	refine (1)
188:24	136:11	160:12;161:14,16;	recognition (1)	208:5
rains (1)	reaching (1)	162:21;163:15;	229:3	refined (2)
81:9	138:24	164:20;166:1,13;	recognize (3)	200:1,3
raise (23)	reaction (1)	171:11;174:4,8,11;	112:5;220:3;240:17	reflect (1)
23:23;24:20;32:2;	201:12	175:15,17;178:19;	recognized (1)	130:6
36:14;53:22;57:13;	read (2)	179:9;180:20;185:12,	12:1	reflection (1)
79:9,12;81:8,10,13,	15:24;237:11	19;187:2,4,6;188:9,	recognizing (1)	167:6
15,18,19,24;82:1,5;	readily (1)	18;189:14,16;190:2,4,	117:20	reflective (1)
128:17;156:4;164:16;	79:12	12,22,25;192:2;	recommend (2)	231:15
182:5;254:20;255:16	reads (1)	194:14;196:13;	103:1;239:10	Reform (3)
raised (8)	242:19	198:12;209:6,11;	recommendation (2)	15:19;16:25;166:13
5:15;15:6;17:3,4;	ready (11)	210:4,18;213:11;	63:13;68:23	reforms (1)
19:21;36:21;105:15;	4:9;64:24;66:7;	214:17,21,22;215:16;	recommendations (3)	198:7
169:14	74:13,15;107:12,13,	218:19;221:11,18;	16:23;24:5;203:20	refrain (1)
raising (4)	13,15;144:3;205:2	227:10;235:12;236:2,	reconcile (1)	12:5
72:19,20;77:8;	Real (16)	16;237:8;238:10,13;	155:7	refraining (2)
79:13	15:7,9;52:3;77:9;	239:14;241:2,20;	reconvene (4)	179:18;180:4
rampant (1)	99:15;103:14;134:24;	243:11;244:5,19,22;	4:12;8:6;256:17,24	refrigeration (1)
70:19	159:17,24;160:1;	245:14,22;250:4;	reconvened (2)	226:19
ran (2)	161:8;164:4,14;	251:4;252:23;255:25	96:1;191:8	refused (2)
176:1;185:7	210:6,6;235:22	realm (1)	record (6)	31:20;216:23
ranch (3)	realities (1)	129:14	4:25;5:3;7:8;12:2;	regard (3)
71:6;73:13,19	164:11	real-world (2)	69:23;70:7	67:15;103:6;126:24

regarding (6) 38:1:41:20:68:3.18: 228:25:255:11 regards (5) 69:23;172:24; 173:4;178:23;179:2 regenerative (1) 93:12 region (3) 23:21:83:4:120:8 48:1 regional (2) relief (4) 133:16:216:17 regionally (1) relies (1) 41:21 regions (4) 71:18;75:1;189:9; 203:19 register (1) 5:17 registered (1) rely (2) 142:10 registration (1) 12:1regular (2) 104:20;215:12 regulated (1) 200:21 regulation (3) 28:8;88:7;134:9 regulations (12) 28:24:29:13:44:20; 69:16:109:6:149:16. 17,20;185:23;188:11; 254:17;255:10 regulators (2) 108:9;186:7 regulatory (2) 108:4:221:22 reimbursement (2) 161:24,25 reiterating (1) 15:4 reiterations (1) 184:25 reject (1) 31:18 rejoined (1) 118:8 rejoining (2) 10:19,19 related (6) 93:14:177:21: 178:4;202:21;225:15; 245:19 relates (3) 220:2;222:21; 247:15 relationship (2) 93:11;108:18 relative (2) 119:20;177:22 relay (1) 4:24

relevant (5) 113:5:125:5.12: 208:7:231:4 reliability (2) 204:4;252:24 reliable (3) 104:17;119:12; 220:16 reliance (1) 32:8,11,15,18 199:13 relieves (1) 32:16 relisting (4) 30:22;31:1;68:3,12 reluctance (1) 56:12 29:24:175:17 remain (5) 6:2;47:2,12;84:22; 204:2 remaining (1) 169:7 remarks (2) 7:17;12:6 remember (3) 12:13:13:24:39:23 remind (4) 7:9:8:16:12:3: 92:16 reminder (2) 11:24;41:13 reminders (1) 11:23 removal (2) 169:17,20 remove (4) 103:3.9:109:19: 200:21 renew (1) 121:7 repeal (1) 133:5 repercussions (1) 186:3 rephrase (1) 249:21 replaced (1) 228:9 replacements (1) 237:22 replacing (1) 237:21 report (5) 122:25;168:15; 176:11:185:20:214:6 reported (1) 215:10 reporting (4)

5:2:120:2:211:7: 215:15 reports (1) 170:6 represent (6) 51:3;67:6;184:18; 218:25;219:25; 222:20 representative (1) 23:11 representatives (1) 26:5 represented (2) 108:12,16 representing (6) 107:17;110:9; 111:17;170:23; 189:24;230:22 represents (3) 212:16;228:2; 234:20 reputable (1) 99:7 request (1) 109:13 requesting (2) 32:7;68:25 requests (3) 47:8;176:20;223:8 require (6) 28:23:127:8; 128:14:133:14: 169:18:226:14 required (6) 131:25;186:5; 204:22;234:13; 243:17:244:18 requirement (5) 121:3;149:13; 151:15:169:1:231:18 requirements (17) 29:13:51:17:71:17; 74:16,21;129:17; 137:22;149:18; 184:21;186:21;212:8; 225:14;226:17,18,19; 231:19;234:8 requires (6) 53:23;111:11,11; 200:21;204:24; 226:24 requiring (4) 31:24;32:16;33:1; 155:13 Research (37) 29:25;32:9;41:17, 25;43:3,5,12;48:4; 148:2;203:4,16,19; 204:8,9,18,24;206:1, 6,13,25,25;207:2,3,7, 11,12,22,23,25;208:3, 4.6.7.14:211:7: 225:11;241:13

researchers (3) 67:12:207:8.16 residual (1) 121:20 residue (26) 84:1;86:21;92:5; 103:3;107:19;108:24, 25;109:10,15;110:11; 112:23;122:14; 124:20;127:12;128:6; 141:6,10,14;154:21; 155:2;199:16;225:16, 17,25;228:7;229:20 residues (6) 101:18;110:18; 125:4;128:12;226:14; 243:11 resilience (1) 28:19 resilient (2) 222:21;233:19 resolved (1) 29:18 resonates (1) 178:15 resource (1) 109:7 resources (5) 25:5;29:10;58:1; 219:16,22 respect (3) 8:20:128:8:204:2 respectful (1) 8:17 respectfully (1) 109:13 respective (1) 158:5 respects (1) 117:19 respiratory (1) 150:22 responded (1) 235:23 response (13) 68:18;95:14,16,18; 107:8;129:17;174:17; 179:17;181:19; 196:24;226:8;230:7; 233:1 responsibilities (2) 51:7;218:16 responsible (4) 93:24;153:16,16; 203:14 responsive (1) 117:22 rest (2) 150:5;247:2 restate (1) 238:22 resting (1) 45:9

- Vol. 2 April 25, 2024

restrict (1) 47:22 restricted (1) 48:6 restriction (7) 35:12,13,16,18; 48:3.5:194:25 restrictions (2) 61:24;152:25 restricts (1) 47:3 result (6) 41:8;61:12;127:13; 149:13;150:21; 241:17 resulting (3) 150:14;240:22; 244:20 results (3) 203:23;215:12; 226:20 retail (2) 32:6;250:3 retailer (2) 116:13;252:5 retailers (3) 94:6;134:3;157:21 retain (2) 145:20;253:20 retained (3) 122:16,17,21 retention (1) 156:9 return (2) 120:23:139:15 re-up (1) 17:16 revert (1) 242:1 review (23) 31:2,6,7,18;32:25; 33:21:46:19:47:8; 67:13;117:8;168:7, 18;169:1;170:8,17; 171:5,5,24,25;176:22; 178:2;199:23;206:24 reviewed (4) 29:5;36:6;68:4; 94:24 reviewers (1) 226:10 reviewing (1) 177:5 reviews (3) 40:11;173:16;174:3 revised (1) 174:23 revision (1) 172:12 revisions (1) 168:16 revolt (1) 217:19

- Vol. 2 April 25, 2024

Spring 2024 Meeting				April 25, 2024
reward (2)	River (1)	round (2)	238:11	197:2
190:16,18	51:3	180:10;254:2	safety (5)	savvy (1)
rice (1)	RMA (1)	rounds (1)	204:11,13;235:21,	44:20
148:25	198:8	134:1	25;238:24	saw (6)
ridiculous (2)	road (2)	Roundup (2)	sake (1)	8:3;50:24;94:11;
91:18;114:23	79:17;134:20	189:7,11	192:2	160:23;229:3;241:17
rife (1)	roadblock (1)	route (2)	sale (1)	saying (17)
119:17	176:1	33:1;54:23	142:22	45:24;49:7;61:21;
right (100)	Robin (7)	routine (5)	Salem (1)	66:5;76:9;104:20,21;
4:9;5:9,21;6:14;	247:3,5;254:1;	33:12;34:14;39:5,	199:6	134:14;138:24;
8:23;11:22;13:11;	256:4,5,7,8	20;43:19	sales (10)	139:11;162:7,8;
14:2,8;18:11;19:25;	robotic (1)	routinely (1)	16:12,14;97:18;	175:1;183:18;186:2;
20:3;21:8;25:8,19;	47:9	44:5	98:9;155:8;160:19;	193:10;239:7
26:6,7;27:17;28:25;	robust (8)	row (11)	165:15;167:18,19;	scale (1)
36:11;46:18;48:19;	88:12,23;90:4,4;	25:14,15,17;52:4,	216:17	204:18
54:11,13;57:7,18;	215:1,1;223:25;241:2	15;53:25;78:1;96:20;	salesman (1)	scales (1)
60:15;66:9,10,21;	rock (1)	136:5;138:11;185:8	96:17	146:4
67:1;72:25;73:17,22;	205:23	rubber (1)	same (38)	scaling (1)
81:13,19;82:2;85:1;	Rockies (2)	134:20	8:20;14:13;15:11;	204:24
88:1;91:15,16,22,24;	105:16,18	ruining (1)	23:15;60:9;62:3;65:2;	scares (1)
92:2;96:12;104:13;	role (2)	217:20	66:8;76:11,23,24;	209:22
110:16;111:16;	107:25;178:1	rule (11)	86:8;88:1;92:21,22;	scenario (1)
113:14;114:5,15,20,	roll (2)	37:2;44:22;45:23;	97:3;103:23;114:17;	133:12
24,24;117:11;123:9;	8:22,24	52:1;53:25;85:16,16;	126:1;129:19;131:11;	schedule (2)
124:9;126:18;132:3;	rolled (1)	89:4;154:11;212:7,15	133:17;137:16,23;	12:11;218:19
139:10,12;142:20;	71:14	rulemaking (2)	142:9;156:22;163:24;	scheduled (1)
145:9,19,22;147:23;	roller (1)	32:5;169:6	164:23;179:14;	118:13
150:16;152:8;159:10;	47:10	rules (6)	195:13;200:3;218:14;	Schmidt (1)
161:4;167:2;169:21;	rolling (2)	88:7;137:16;	228:20,21;229:22;	127:20
175:1;177:3,11;	63:13;163:2	154:25;191:25;	233:25;249:23; 251:24	Schmitt (9)
180:5,8,14;182:20,23; 184:7;186:1;189:11;	rollout (2) 191:20,22	201:18;213:4 run (11)		135:21;140:18; 143:14,17,20,20;
190:6,11,19;192:8;	room (8)	8:13;21:10;70:24;	sample (5) 42:20,21,22;	145:14,17,20,20, 146:1,22;147:12
190:0,11,19,192.8, 193:6;198:22;201:10;	4:4;28:11;85:2;	72:22;76:18;88:14;	131:15;226:18	school (1)
208:13,22;209:12;	112:4;117:11;139:17;	90:8,8;178:21;209:1;	sampled (2)	43:9
218:13,15;224:15;	166:22;167:6	244:6	127:14;225:24	scientist (1)
228:15;234:9;243:5;	Roosevelt (1)	running (5)	samples (1)	225:10
255:22	133:9	70:19;118:13;	125:2	scientists (3)
rights (1)	Roots (1)	218:19;241:3;256:9	sampling (11)	28:5;202:24;203:2
218:15	21:10	runs (1)	84:4;124:23;217:7;	scope (4)
righty (2)	ROP (1)	159:19	225:18,22,23,25;	170:3;171:4;175:2;
57:12;107:12	164:22	runway (1)	226:3,17,18,24	176:10
rigorous (2)	ROP's (1)	42:1	sanitation (1)	scopes (1)
220:19;231:5	162:21	rural (1)	47:1	225:19
ripped (2)	Roseland (1)	90:13	sanitize (1)	scope-specific (1)
158:8,16	14:4	C C	47:11	226:4
ripple (1)	Rosenau (1)	S	sanitizing (2)	scraps (1)
64:3	26:14		47:4,9	240:15
rise (1)	Rosenow (3)	S2G (4)	sat (1)	scratch (1)
166:1 risk (19)	12:20;13:18;95:13	189:24;219:11;	38:5 satellite (1)	139:5
108:13,22;110:14;	Ross (6) 225:2;227:21;	220:3,14 S2G's (1)	98:4	screen (7) 5:20,23,24;6:2,22;
111:23,25;112:2,5,6,	230:13;233:6,10,11	189:20	satisfy (2)	7:14;107:3
7,8;120:24;169:19;	rotation (6)	sacred (1)	56:2;111:5	screening (1)
171:20;181:10;	136:5;157:12;	37:3	satisfying (2)	225:17
212:24;222:20;	189:2;203:18;215:12;	sacrifice (1)	31:2;91:21	screens (1)
225:22,24;226:4	228:18	210:12	save (2)	128:10
risk-based (10)	rotational (1)	sad (1)	6:8;139:3	screenshot (1)
84:8;108:21;109:8,	41:22	99:21	saved (1)	140:3
15;110:10,20;115:2;	rotations (3)	safe (4)	134:2	screwed (1)
134:18;135:4;234:17	215:1,2,4	24:19;30:5;119:12;	saving (1)	42:23
risks (3)	roughly (1)	208:16	197:4	scrutinized (1)
110:21,24;236:16	173:13	safer (1)	savings (1)	125:6
				<u> </u>

scrutiny (6) 65:2:84:6.18:85:5: 86:8:228:21 Sea (1) 120:7 seal (3) seek (1) 39:1;199:11;236:11 169:10 seeking (2) search (1) 148:11 season (2) seem (9) 17:7;198:15 season-to-season (1) 204:7 sec (1) 252:13 115:15 seemed (3) second (11) 4:6;22:11;27:18; 163:12 87:5;149:10,15; 169:1;175:20;190:14; 102:11 192:10;247:1 seems (21) secondary (1) 190:22 secondly (3) 91:16;152:22;201:1 seconds (2) 221:7,11 secretary (2) 83:7;199:5 246:8 Section (1) segment (1) 240:6 41:21 sections (1) 175:18 8:10 sector (5) seized (1) 17:15:31:20: 69:20 112:22;204:5;232:14 sectors (1) 39:6 sector's (2) 31:19:109:16 10 secure (1) 131:1 73:10 security (1) 79:17 73:12 seed (51) 200:23 47:25;51:4,4,4,9, 10;52:1,3,4,5,6,7,8,9, sell (22) 11,20;53:4,7,9,10,14, 17,22,25;54:13,16,25; 55:1,2,13;96:17,21; 97:3,14;98:7,9,20; 99:1.23,25:100:6; 121:7:125:8.13.14: 136:9;144:1;187:20; 205:14;217:14; seller's (1) 228:16 120:21 Seeds (5) selling (9) 140:22,22;141:6,9; 187:21 seed-wise (1) 54:21 sells (1) seeing (20) 40:9 19:12:24:11:26:16; semi- (1) 27:2;30:11;43:23; 147:5

semi-trucks (1) 44:2:91:5:101:15: 110:18;112:2;114:1; 155:13 Senate (1) 193:20;215:4,4; 224:22;230:4,8; 15:20 255:18:256:8 send (4) 65:13;127:15; 183:7;244:25 sense (11) 165:4;224:3 17:16;98:24; 156:24;161:22; 34:15;87:22; 171:18;196:10,13,20; 166:11:173:17,23; 214:24;215:16; 174:15;228:23;243:6; 233:25 sensible (1) 134:17 sensitive (1) 36:10;137:12; 207:3 seemingly (1) sent (2) 65:11;196:6 sentence (1) 19:10:23:6:69:15: 7:12 80:19;87:25;90:22; sentiment (1) 93:16;132:19,21; 246:8 139:19:145:19; separate (2) 173:10,15;174:2; 169:24;210:3 175:9,10;182:19; serious (2) 190:15;196:9;221:17; 64:17;186:2 seriously (3) 112:12;236:16; 238:7 segments (1) serve (7) 28:11:67:12:83:7. 23:98:1:101:14; 105:25 selection (2) service (6) 226:11.17 20:22;32:23;38:19; 108:1:110:5:128:3 selenium (5) 195:22;196:1,2,4, serving (3) 30:21;155:23;235:5 self-finance (1) session (1) 8:16 self-financed (1) sessions (2) 8:2;154:11 self-policing (1) set (9) 56:3;71:17;81:13; 106:1;112:25;113:10; 223:25;231:6;250:7 16:9;31:13;58:2; sets (1) 77:10;95:1;96:21; 129:2;136:7,8,14; 113:1 137:5;138:17,18; setting (4) 141:19;144:1.3; 107:7;127:9;146:1; 193:9 182:8:184:1:192:12: 201:15;240:2;241:23 settings (1) 85:1 seven (7) 126:13,14;157:9, 16:12;22:16;64:22; 19,23;158:5;185:8 73:16;76:10;88:14; several (8) 98:22;120:24;146:4 79:1;80:11;133:2; 156:13;189:6;197:9; 209:3;211:10 severe (3) 68:15,22;69:1

sewage (1) 246:9 shake (2) 183:19;251:10 shall (1) 12:5 shape (2) 8:5:79:5 **share (17)** 5:22;35:14;89:11; 94:25;97:14;117:12; 118:19:120:20; 121:17;161:16,24; 162:16;163:7,9; 165:7;244:20,24 sharing (3) 11:1;18:20;24:3 sheep (3) 71:5;72:22;163:3 sheet (1) 27:9 sheetings (1) 236:12 sheets (1) 89:21 shelf (2) 249:2;252:21 shelled (1) 59:11 sheltered (1) 138:20 shelves (1) 157:25 Shepard (1) 101:6 Shepherd (2) 106:16,22 **SHEPPARD (9)** 119:6,8,9,13,14; 121:19:122:7.15; 123:2 shift (1) 232:13 ship (10) 86:1,17;130:22; 131:6;132:1;166:14; 218:25;234:20; 247:12;248:18 shipload (1) 154:20 shipment (3) 218:3;234:14.18 shipments (3) 103:3,5;127:8 shipped (2) 59:11;187:22 shipping (6) 60:10;131:5,20,23; 147:2;226:19 ships (4) 86:6;130:20; 131:18,19 shores (1)

- Vol. 2 April 25, 2024

186:6 short (9) 14:3:35:14:74:7.19; 99:16:109:23:123:14: 142:14:165:23 shortages (1) 128:24 shorted (1) 60:2 shot (1) 180:11 show (10) 11:20;40:14;86:22; 87:21:90:19.21; 92:17;107:1;196:3; 232:1 showed (1) 92:17 showing (3) 17:9,10;195:20 shown (1) 36:20 shows (3) 103:8;120:14;234:5 shuts (1) 236:21 side (22) 7:2;33:9;42:2; 44:18;52:13,17; 67:21:79:19:98:19, 23:99:5:100:17; 124:5:127:10:138:15: 149:2;156:22;183:2; 197:13,16;206:17; 248:10 sides (2) 93:17:179:24 sight (1) 169:12 sign (4) 71:16;72:7;74:13, 15 signed (5) 12:1;26:18;74:9,18; 96:6 significant (5) 32:2;84:2;85:3; 189:5;232:13 significantly (2) 84:16;234:5 signs (1) 68:22 sign-up (5) 72:2,4;74:7,18,22 silage (1) 97:5 silence (1) 102:22 silently (1) 234:9 Silva (8) 198:25;202:13,15; 205:13;206:6;207:17,

- Vol. 2 April 25, 2024

2020817 2523 462.4, 61.1, 64.813 24.23.203.17; 94.95.015.233.11; 522.554.36.0557, snapkto (1) 127.43 1397.1224.122466 anglerteng (2) 50.2357.81, 05.87, 71.57.314 18.6022.63.18; 18.612.2357.11, 07.235 snapkto (1) 50.0414, 14.22.11; 122.52.141.55 simple (6) 16.813 4.09.67.011, 10.72.9; 13.42.152.141.55 snapkto (1) 50.22.179.18, 18.82 2501 25.62.0 23.82.91.80.8559, 147.20.10.33 90.17.91.22.12.55 somedow (1) 15619 5.22.11.22.119.23 90.17.91.22.12.55 somedow (2) 18.33.19.12.21.19.23 15619 5.22.66.38.42.55 147.20.10.33 90.17.91.22.17.55 somedow (2) 18.33.19.12.21.19.23 12.92.71.62.60.1 147.20.10.33 90.17.91.27.12.25 somedow (2) 18.33.19.12.21.19.23 12.92.71.62.60.1 19.83.15.67.40.11.23 90.83.15.67.40.11.23 30.94.77.83 30.94.77.83 17.22 14.92.01.03.23 90.83.15.67.40.11.23 30.94.17.83 30.94.17.83 17.22 14.92.01.12.17 10.02.23.10.18 30.94.17.17.91.18 30.94.17.17.91.18 18.19 0.11.14.12.53.11.61.11.11.17.91.19.12.19.12.19.12.19.1	Spring 2024 Meeting	1		1	April 25, 2024
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	20.208.17	252.3	46.2461116.48.15	24.23.205.17.	122.20
$\begin{array}{l c c c c c c c c c c c c c c c c c c c$					
Simmons (2) T15,73:14 18:60:22:63:18, snapshot (1) snapshot (2) simple (6) 163:13 4:69:67:01:11,67:29; sneaker (1) 35:22:179:18:18:82; 212:15:21:41:5; 4:19:95:23:10:14; 21:24:77:17:79:18; sneaker (1) somehow (1) 250:1 256:1 256:20 23:22:19:21:82; somehow (2) somehow (2) 3implified (1) sides (6) 88:25:897:26.73.83; so-and-so's (2) 133:15:01:12; 133:31:50:12; 3io:10 92:12:14:22:99:71.8; someone (6) someone (6) simplified (1) 92:12:14:22:99:71.8; someone (1) someone (1) 3io:21:04:22:00:14, 92:21:42:29:93:71.8; someone (3) someone (6) 3iogle (0) 25:17 100:22:10:13.8; social (3) someone (7) 3iodge (2) 71:82:51:10:71:21:9; social (3) someone (7) 3ister (1) 76:71:12:62:0; social (3) social (3) someone (6) single (1) 78:17 115:51:51:12; social (3) social (3) social (3) social (3) social (
$\begin{array}{llllllllllllllllllllllllllllllllllll$					
$\begin{array}{llllllllllllllllllllllllllllllllllll$					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
					· · · ·
$\begin{array}{c c c c c c c c c c c c c c c c c c c $,	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
250:8.24/252:19 99:8:156:4:201:12; 13:98:13:99:18; social (3) 18:13 76:17:126:20; slowdown (1) 103:16:105:6:106:10, 251:12 sometimes (7) 234:20 60:11 14:20:107:3,0.15; socks (1) 86:18:107:6:141:19; 234:20 50:ver (1) 116:15:15:116:11:1184, Socks (1) 86:18:107:6:141:19; 17:22 studge (2) 7.18:25:107:7:117; 64:14 Somewhart (6) 76:19:210:10; small (3) 22:8:123:3:16; 25:109:17.24:35:18:78:20; somewhart (6) 91:22:10:15:11:19; 32:2:4:135:8; 11:3:14:12:22:32:20; somewhare (1) 15:2:0:127:11:7; 12:2:0:127:11:7; 15:2:10:15:11:12; somewhare (1) 192:6 16:3:11:6:11:7:42; 13:9:6:14:0:15:15; 11:3:16:11:12:02:12:11:17,20; som (5) 61:17:42:18:21:0; 9:2:1:18:5:15:19; 19:2:2:0:0:2:11:19; 22:4:5:22:10:2:11:17,20; 20:0:13:12:12; 20:10:0:0:12; 15:2:17:15:3:17; 11:4:19:6:4:197:2; 16:12:16:12:16:12:11:12; som (5) 61:17:42:18:21:0; 9:2:1:18:13:14:11:14:11:12:23:13:13:13:13:13:13:13:13:13:13:13:13:13					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					sometimes (7)
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		60:11		socks (1)	
sister (1) $78:7$ 115:15:116:11:118:4SOE (32)somewhat (6)17:22 $sluge (2)$ 7.18.25:119:77:121:9;32:2.84:5.785:15.52:10:55:18:78:20:36:19:210:10; $small (31)$ 125:02:127:1,17;111:3.71:13:23;somewhere (1)247:1632:6:130:5:133:19;130:91:32:14:13:58,111:3.71:13:23;somewhere (1)192:6159:22:160:24.81:0,319:6(140:0):15.17;129:20:154:11.23;somewhere (1)91:21:61:51:19;16:43,11.16:187:24;145:14:146:11;200:21:21:17.20;SOP (2)99:21:18:13:19:35;19:320.20:21:19:61;147:10.13.16.82,0,21:7.15:22:17.17,20;SOP (2)99:21:18:13:19:35;19:320.20:21:19:61;24:10:21:51:623;Soit (15)Sort (2)99:21:18:21:19:32:11:96:12;145:14:146:11;200:21:21:17,20;24:72:62:32:27:7;23:31:819:320.20:21:19:61;15:51:15:25:157:2;11.14:19:64:19:72;44:11.46:62:12:5;situation (1)smaller (15)15:43:15:25:157:2;11.14:19:64:19:72;44:11.46:62:12:5;situations (1)smaller (15)15:47:159:3:11.14;203:17:220:22:25:10;107:11:14:11:12:34;14:12:418:9:48:9:54:22;16:12:16:17:16:2;24:31:12:24:2;15:64:170:12:17:69;17:15:19:68:10:4;228:2018:31:17:19:31:16:6;12:12:22:23:23:24;14:13:59:138:6;17:15:19:23:15;19:32:6,10:41:2;13:64:170:12:17:69;15:55:159:25;54:17:66:13:20;14:12:418:9:48:9:54:22;16:12:16:21:18:18:18;15:22:17:55:29;54:17:66:13:20; <tr<< td=""><td></td><td></td><td></td><td>64:14</td><td></td></tr<<>				64:14	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	sister (1)	78:17		SOE (32)	somewhat (6)
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			7,18,25;119:7;121:9;	32:2;84:5,7;85:15,	52:10;55:18;78:20;
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					84:22;104:12;223:22
site (1) 134:22;136:5;138:11; 13,16,18,20;138:1; 115:1,19:124:9; soon (5) 192:6 159:22;160:24,8,10, 139:6;140:9,15,17; 129:20,154:11,25; 6:11;74:21;82:10; 34:13,47:155:119; 164:3,11,16;187:24; 142:17;143:13,18; 125:5;12;165:19; 5:25;156:2 99:21;182:13;193:5; 193:20,20,21;196:12; 147:10,13,16,18,20; S01 (15) SOPs (2) 217:7;3237:21;238:11; 200:10;209:2;21:19; 24:150:2;55;757:2; 29:17;153:22,27:7; 24:7;26:23;27:7; 233:18 smaller (15) 158:17;159:3,11,14; 203:17;220:2;225:10; 107:11;114:11;123:4, 141:24 189;48:9;54:22; 16:11:2;162:19;165:1; 231:22,23;232:4; 14:1359;138:6; situations (1) smaller (15) 130:4;13:6;19;160:10; 24:3:11;246:2; 107:11;114:11;123:4, 141:24 189;48:9;54:22; 16:12;162:19;165:1; 231:12;24:2; 42:3;9:138:13, 7:5:50:20:51:22; 130:4;13:6;19;160:10; 231:81:13,16;18:2;2; 43:11;246:2; 15:4;17:15:2;9;13:35; 7:5:65:66:18;73:15; 193:6;0,14;19:4:12; 177:15;179:13;18:06; solat (2) solat (2)					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
situation (13) 21;161:5;163:12,19; 142:17;143:13,18; 155:5,12;165:19; 95:25;156:2 34:13;47;155:11;9; 164:3;11,16;187:24; 145:14;146:11; 226:5;12;10; 95:25;156:2 99:21;182:13;193:5; 193:20;20;21;19:19; 24;150:21;151:6;23; 226:5;21 SOPs (2) 195:15:20:11:2,17; 200:10:209:2:21:19; 24;150:2:151:6;23; Soil (15) Soiry (22) 217:3;237:21;238:11; 20;216:19;243:9; 155:17;155:25;157:2; 111;14:196:4:197:22; 24:7;26:23;27:7; situations (1) smaller (15) 158:17;159:3;11,14; 203:17;220:2;225:10; 107:11:11:14:11;123:4, 141:24 18:9;48:9;54:22; 161:12;162:19;165:1; 231:17;220:2;223;210; 107:11:11:14:11;123:4, 130:4;136:19;160:19; 166:20;167:25; soils (1) 215:23;218:18,19; 215:23;218:18,19; 75:17;96:8;101:4; 228:23 177:51;179:13;180:6; soil (2) soil (2) soil (3) 1120:3;123:9;157:18; 212:20 18:12;14:10;176:12; soil (5) 59:15;65:199:25; 54:17;61:12;69:24; 1120:3;123:9;157:18; 212:10 23:11:15 19:12;69;113:31;					
$\begin{array}{llllllllllllllllllllllllllllllllllll$					
$\begin{array}{llllllllllllllllllllllllllllllllllll$					
$\begin{array}{llllllllllllllllllllllllllllllllllll$					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
situations (1)smaller (15) $158:17;159:3,11,14;$ $203:17;220:2;225:10;$ $107:11;114:11;123:4,$ $141:24$ $18:9;48:9;54:22;$ $161:12;162:19;165:1;$ $231:22,23:23:24;$ $14;135:9;138:6;$ $six (19)$ $130:4;136:19;160:19;$ $166:20;167:25;$ $231:12;246:2$ $156:4;170:12;176:9;$ $7:5;50:20;51:22;$ $162:5,9;171:13;$ $170:18,20;172:10;$ $soils (1)$ $215:23;218:18,19;$ $57:6;66:18,73:15;$ $193:6;10,14;194:1,2;$ $173:6;174:10;176:12;$ $42:9$ $219:5;241:3;242:24$ $75:17;96:8;101:4;$ $228:23$ $177:15;179:13;180:6;$ $solar (2)$ $sort (36)$ $117:15;119:2,3;$ $smallholder (1)$ $23;181:13,16;182:2;$ $18:2,4$ $6:9;15:6;53:21;$ $120:3;123:9;157:18;$ $211:25$ $211:15$ $191:2,69,15;193:16;$ $120:22;194:18$ $80:291:5:94:9:116:6;$ $size (3)$ $smallholder (1)$ $186:23;187:9;189:16;$ $120:22;194:18$ $80:291:5:94:9:116:6;$ $sille (1)$ $212:14$ $17,19,20,23;199:4;$ $73:21;230:22$ $117:6;121:16;151:8;$ $sille (1)$ $201:20:202:10,13;$ $solet (2)$ $175:23;176:3,24;$ $25:25;227:20;$ $smell (2)$ $208:15,18;210:14,22;$ $solidarity (1)$ $178:13,14;181:11;$ $225:2,227:20;$ $smell (2)$ $208:15,18;210:14,22;$ $34:24;124:19$ $soution (2)$ $25:233:3$ $84:13$ $219:3;221:8;22:4;$ $34:24;124:19$ $soution (2)$ $24:4;24:53;5,11;19:51:11$ $211:4;213:8;21:4;23:24;23:24;134:17,soution (2)207:412,17,22;5:53;$					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{llllllllllllllllllllllllllllllllllll$					
$\begin{array}{llllllllllllllllllllllllllllllllllll$					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
size (3)smallholders (1) $194:21;196:21;198:2,$ solely (2) $117:6;121:16;151:8,$ $5:11;200:18;207:14$ $212:14$ $17,19,20,23;199:4;$ $73:21;230:22$ $11;162:4;174:20;$ skilled (1)smart (1) $201:20;202:10,13;$ solid (1) $175:23;176:3,24;$ $254:25$ $93:13$ $205:4,21;206:22;$ $192:8$ $177:9,10,20,21;$ Skip (8)smell (2) $208:15,18;210:14,22;$ solidarity (1) $178:13,14;181:11;$ $225:2;227:20;$ $85:1;195:11$ $211:4;213:8;214:4;$ $28:20$ $184:5;187:4;207:5;$ $230:12,16,18;232:24,$ $84:13$ $219:3;221:8;222:4;$ $34:24;124:19$ $252:11$ skipped (1)Smith (284) $224:11,20,22;225:5;$ solutions (2)sought (1) $123:4$ $8:15,25;9:1;11:9,$ $227:4,15,18,24;230:5,$ $134:5;219:17$ $148:10$ slam (1) $11;12:25;13:3,5,10,$ $8,12;232:24;233:2,6;$ solve (3)sound (3) $207:4$ $12,17,22;15:23;$ $235:6,14;237:1,3;$ $44:3;214:12;247:19$ $501d(1)$ $11:22$ $24;21:6,9,12,18,23;$ $23:44:8,24;245:3;$ $121:20;122:3;$ $15:8$ slate (1) $16:17;18:22;20:18,$ $238:16;239:18;242:3,$ $121:20;122:3;$ $165:8$ $11:22$ $24;21:6,9,12,18,23;$ $22:20,22;24:1;25:1,9,$ $24:6:17,22;247:1;$ $128:11;199:18;$ $sounded (1)$ $11:23$ $32:20;33:17;35:6;$ $256:2,6,11$ $122:22$ $17:21;66:6;78:19;$					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	230:12,16,18;232:24,	smells (1)	215:20,23;218:11,17;	solution (2)	244:4;245:8;246:9;
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	25;233:3		219:3;221:8;222:4;	34:24;124:19	252:11
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$,	
slate (1)16:17;18:22;20:18,238:16;239:18;242:3,solvent (5)sounded (1)11:2224;21:6,9,12,18,23;23;244:8,24;245:3;121:20;122:3;165:8slaughter (8)22:20,22;24:1;25:1,9,246:17,22;247:1;128:11;199:18;sounding (1)37:1,6,11;44:10;24;26:9,14,20;27:4,7,249:10;253:4,23,25;226:13134:1747:25;48:20;151:25;9,12,14,18,21;30:10;254:6,8;255:17;solvent- (1)sounds (14)152:332:20;33:17;35:6;256:2,6,11122:2217:21;66:6;78:19;					
11:2224;21:6,9,12,18,23;23;244:8,24;245:3;121:20;122:3;165:8slaughter (8)22:20,22;24:1;25:1,9,246:17,22;247:1;128:11;199:18;sounding (1)37:1,6,11;44:10;24;26:9,14,20;27:4,7,249:10;253:4,23,25;226:13134:1747:25;48:20;151:25;9,12,14,18,21;30:10;254:6,8;255:17;solvent- (1)sounds (14)152:332:20;33:17;35:6;256:2,6,11122:2217:21;66:6;78:19;					
slaughter (8)22:20,22;24:1;25:1,9,246:17,22;247:1;128:11;199:18;sounding (1)37:1,6,11;44:10;24;26:9,14,20;27:4,7,249:10;253:4,23,25;226:13134:1747:25;48:20;151:25;9,12,14,18,21;30:10;254:6,8;255:17;solvent- (1)134:17152:332:20;33:17;35:6;256:2,6,11122:2217:21;66:6;78:19;					
37:1,6,11;44:10; 47:25;48:20;151:25;24;26:9,14,20;27:4,7, 9,12,14,18,21;30:10; 32:20;33:17;35:6;249:10;253:4,23,25; 254:6,8;255:17; 256:2,6,11226:13 solvent- (1) 122:22134:17 sounds (14) 17:21;66:6;78:19;					
47:25;48:20;151:25;9,12,14,18,21;30:10;254:6,8;255:17;solvent- (1)sounds (14)152:332:20;33:17;35:6;256:2,6,11122:2217:21;66:6;78:19;					
152:3 32:20;33:17;35:6; 256:2,6,11 122:22 17:21;66:6;78:19;					
Solvent-extracted (1) Solvent-extracted (1) Solve					
	staughtered (1)	30.7,41:13;43:13;	51100til (3)	Solvent-extracted (1)	01.17,10,10,104:14;

142:23;173:8;179:25; 184:17:190:11: 205:10:214:16 sour (3) 87:23,24;88:4 source (9) 16:10;84:15;208:3; 211:22:236:21; 246:11;247:21; 250:25;251:1 sources (24) 36:14:47:24:48:2,4, 5;49:5,6,6,6;148:11; 149:1,9;203:25; 204:2,4,7,12,14,16; 207:9;240:15,16; 247:25;250:21 South (4) 16:13;51:6;96:22; 191:17 Southeast (1) 23:20 southwestern (1) 14:25 soy (9) 54:15;101:13,21; 136:14;185:12; 186:18;189:2;250:5; 251:1 sov-based (1) 149:11 sovbean (43) 55:19:97:24; 104:13,22;119:10,14, 17,20;120:1,4,6,12, 15;121:1,4,6,15; 122:12,13,13,16,18; 137:6;148:22;153:6, 8;183:3;185:11; 199:9:211:11,12,13, 14;212:1,5;213:18,18, 19:215:5,11:248:17: 252:12,16 soybeans (30) 25:20;51:13,20; 56:11,14;64:20;66:1; 77:8;83:3;97:20; 100:18,19;119:22; 120:18;137:9;185:21; 187:18;192:11,12; 193:11;195:16;196:8; 211:12;212:1,3; 213:17,18;234:4; 254:21,23 soy-related (1) 251:1 space (10) 59:8:60:19:105:9: 110:17;114:2;122:11; 132:25:152:19; 249:14;250:11 sparked (2) 38:14;94:21

speak (30) spent (3) 6:16.19:7:10:19:3. 116:14:185:5: 7;23:2;32:24;52:16; 216:14 54:14:59:6:61:8: spikes (1) 128:23 69:12;71:23;92:21; spirit (1) 111:16;137:24; 138:14;150:17; 155:17 163:15:167:12; spoke (2) 153:7;156:2 183:19;190:2,4; 191:19;193:19;197:1; spoken (2) 199:7;227:13;242:10; 139:2;186:17 spot (5) 255:21 speaker (8) 81:1,4;82:13; 5:22;6:1;12:17,19; 113:23:114:12 118:24;184:23;185:3; spotlight (1) 219:5 6:1 speakers (8) spray (1) 6:14;11:25;12:3,4, 92:8 11;26:18;97:12;202:6 sprayed (2) speaker's (2) 86:19;97:21 8:19;12:10 spraying (1) speaking (12) 86:17 51:11,19;52:21; sprays (1) 53:19,22;54:19; 86:23 56:12;75:6;185:18; spread (4) 188:20;230:21;255:6 94:17,20;173:17; speaks (1) 195:3 65:23 spreading (2) spec (1) 95:6;174:5 141:21 squeeze (1) Specialist (1) 193:5 46:19 stab (1) specialized (2) 115:11 211:9;225:20 stability (7) 41:24;55:17,22; specialty (1) 141:3 56:15;144:22;206:12, Specific (16) 14 29:3;33:24;85:7; stabilization (1) 121:2 86:14;116:24;122:1, stabilize (1) 1,4:124:24:162:1; 177:21;189:15; 137:9 193:24;203:18; stabilizing (1) 225:16,23 51:23 Specifically (10) stable (2) 144:23;220:23 30:23;69:23;94:5; 119:12;128:5;148:7; stacks (1) 185:6,22;204:1; 78:14 209:17 staff (5) specificity (1) 10:25;11:7;67:10; 244:15 85:8;128:3 specify (1) stage (1) 219:13 250:3 spectrum (1) stakeholder (2) 113:16;249:4 156:12 stakeholders (4) spectrums (1) 56:18 89:15;108:20; 113:6;211:10 speech (1) 167:15 stalled (1) spend (2) 250:18 85:3:158:15 stampede (1) spending (4) 128:17 26:11;210:22; stand (1) 215:25;256:21 234:9

standard (17) 38:22:40:7.8.24: 124:18:171:15; 191:21;203:9;209:19, 20;210:6;221:23; 228:10;229:9;231:23; 243:14;247:15 standardize (1) 124:23 Standards (22) 7:17,21;8:13;11:9; 47:22;48:13;49:4; 62:3;129:24;137:23; 149:25;152:8;164:14; 167:9;218:14;231:6; 232:23;240:12,21; 243:4,21;253:21 standing (1) 117:5 standpoint (6) 20:8;29:21;39:3; 79:17;187:15;188:16 Stanford (1) 182:4 staples (1) 83:4 star (12) 7:5;50:20;57:6; 66:18;75:17;96:8; 101:4;119:2,3;123:9; 184:11:205:23 start (22) 7:8;12:14;18:24; 24:4;27:15,16;38:21, 24;59:24;65:6,17; 80:16;114:1;115:21; 143:19:164:15:183:6. 9;235:22;239:6; 248:23;254:9 started (43) 4:5,11;6:7;11:10; 13:14,25;14:4;21:24; 27:24;46:17;54:25; 57:11;63:22;73:17; 74:16,21;75:25; 80:10,13;82:24;87:4; 97:9;101:9;106:24; 116:10;119:9;123:21; 127:22;136:1;140:20; 147:25;154:4;182:3; 184:16;191:11;199:2; 225:6:230:17:233:9: 235:19;239:22;247:8; 254:19 starting (4) 70:20;93:20;239:8; 252:8 starts (1) 165:24 startups (1) 216:18 state (40) 7:8;12:13;13:13,24;

- Vol. 2 April 25, 2024

14:6;21:24;23:11; 27:23;30:17;39:10; 46:16:57:10:63:21; 67:1;70:16,24;75:24; 82:23;87:3;90:2; 96:13;101:8;103:8; 106:23;131:18; 135:25:143:18:154:3: 182:2;184:15;191:12; 199:1;208:20;216:11; 225:5;230:16;233:8; 239:21;247:7;254:8 stated (2) 31:22;252:11 States (29) 51:12;72:3;96:22, 25;100:16;101:19; 102:4;103:2;104:25; 105:22;120:4,22; 121:21;141:1;183:23; 211:19,22,24;214:25; 217:9;228:3;232:9; 247:11,13;248:18; 250:17;251:23; 252:22;253:13 state's (1) 72:4 statistically (1) 125:5 status (2) 42:5:212:13 stav (8) 34:23,24;125:12; 156:7;161:23;162:16; 164:14:252:6 staying (1) 162:25 stays (1) 86:1 steady (4) 137:10;162:5; 231:2;252:11 stems (1) 129:5 step (10) 33:3;92:20;103:22; 110:25;111:3,4; 124:9;132:23;136:22; 160:15 steps (6) 73:15,24;111:21; 124:10;186:5;200:22 Steve (9) 75:20;82:19,20,23; 83:2;85:9,13;86:11; 87:1 Steward (2) 22:7;23:13 stick (3) 24:12:72:10:142:14 sticker (1) 40:8sticking (1)

- Vol. 2 April 25, 2024

199:16:221:22;

Spring 2024 Meeting	1
24:21	stric
still (40)	14
14:12,16;16:21;	stric
26:16;29:5;30:25;	15
36:24;38:10;52:3;	strife
83:17,24;84:2,22;	21
90:23;99:24;102:18;	strin
106:25;107:3;125:6;	18
137:5;161:1;163:24;	strin
175:16;178:6,6; 192:5,10,15,16,17;	12 striv
192.3,10,13,10,17, 193:3;197:14;203:21;	52
204:1;205:14;229:9,	stror
16;242:9;245:10;	11
252:8	14
stock (1)	23
69:3	stror
stockman (1)	21
127:24	stror
stop (6)	47
142:22;165:19,21;	21
217:12;228:6;236:15	struc
stopped (1)	16
217:12	struc
stopping (1)	10
102:11	struc
stores (4)	79
73:25;101:16;	25
141:4;167:22 storm (1)	strug 24
128:22	strug
story (7)	31
14:3,3;17:19;18:20,	20
25;146:13;234:20	study
straight (1)	85
93:16	stuff
strains (1)	34
189:6	66
strategic (1)	77
185:14	17
strategies (2)	86
38:18;189:20	20 Suba
strategy (1) 209:16	Subc 32
Strauss (3)	52
235:17;239:19;	18
246:19	17
stream (2)	subj
137:11;253:12	88
street (1)	subj
194:15	85
strengthen (2)	subn
213:4;229:13	11
Strengthening (2)	subn
85:16;232:10	67
strengths (1) 108:19	21 subn
stress (5)	subn 11
32:18;107:23;	13
108:14;153:13;	subs
194:17	12
stressful (1)	subs
32:14	16

ct (1)	subspecies (1)
41:20	42:8
ctly (1)	substance (8)
52:3	31:12,21;32:12;
fe (1)	35:12;39:24;47:1,4;
15:13	226:1
ngency (1)	substances (13)
84:25	29:7;31:11;32:11;
ngent (1)	42:14;231:13,16;
25:3	232:1,2,5;236:2;
ve (1)	239:2,5;240:24
2:2	substantial (2)
	88:5,11
ong (7) 1:14;108:17;	substantially (2)
41:13;167:8;217:21;	90:9;149:2
36:18;243:24	substituted (1)
	50:4
onger (3) 16:8;221:6;251:15	
	substitutes (1)
ongly (5)	237:17
7:23;136:25;	sub-therapeutic (2)
14:18;226:9;230:23	39:4,12
ick (1)	success (3)
60:12	25:7;71:25;241:4
ictural (1)	successful (7)
05:14	25:5;83:19;200:8;
icture (6)	222:25,25;226:23;
9:20;249:15,18;	255:16
50:12,13,13	succinctly (1)
iggle (1)	12:8
48:7	suffer (1)
iggling (3)	130:5
1:23;160:25;	suffering (1)
09:11	67:19
dy (2)	sufficiently (1)
5:7;244:14	248:9
ff (21)	sugar (4)
4:4;49:14;59:14;	63:25;92:5,6,7
6:8;76:12,13,23;	suggest (2)
7:14,15;78:7,10,12,	48:2;92:19
7;79:2,8;81:12;	suggesting (1)
6:18;103:13;197:11;	220:17
.09:17,18	suggestions (2)
committee (12)	68:19;86:13
2:9;41:18,18;	suggests (1)
7:20;108:25;148:7,	226:4
8;150:10;169:10,14;	suitable (2)
71:2;240:6	74:17;75:1
ject (3)	suite (1)
8:9;90:3;155:2	242:15
jected (1)	sulfate (1)
5:5	68:7
mission (2)	sulfur-containing (2)
19:23;141:8	149:5;152:6
mitted (4)	summarize (1)
7:15;214:7,9;	4:20
15:3	summary (2)
mitting (3)	35:14;205:2
10:3;122:25;	summed (1)
30:13	205:10
scription (1)	sunflower (1)
20:3	148:24
sequent (2)	sunflowers (1)
69:5;170:17	192:15

	1
sunset (8)	
30:22;68:3,5;148:7;	
173:16;174:3;205:12; 206:24	5
super (9)	5
11:21;13:5;38:7;	
81:14;184:3;187:5,6; 198:1;206:23	5
superior (2)	
68:1;155:4 supplement (3)	5
42:25;92:4;101:17	
supplementation (4)	
47:21;48:23,24; 68:11	
supplementing (1)	
49:24	
supplier (3) 97:14;100:6;102:18	
suppliers (3)	
103:7,9,10 supply (48)	
31:24;43:11;85:17,	
19,21;98:20;101:18;	
102:3;103:24;109:3, 18,19;112:3;121:8;	
124:13,15,17,22;	
128:7;139:16,18;	
148:21;152:1;193:22; 199:24;200:6;204:6,	5
18,24;205:3,15,18;	5
206:3,15,20;211:11; 212:17;213:5,7;	
220:10;228:13;	5
229:25;231:2;234:7;	5
249:5,24,25;252:3 supplying (4)	5
32:6;54:12,23;	E S
102:13	5
support (46) 24:13;30:4,22,23;	5
31:1;47:23;48:4,10,	
13;57:21;58:4;67:25; 68:3,10,12;74:11;	5
83:25;87:20;88:22;	5
98:11;102:6,11;	
103:22;124:7;128:4; 137:25;141:6;154:8;	5
155:22;167:22,22,23,	5
23;168:7,12,24;	
182:10;208:11; 213:15;230:24;	5
231:20;234:13;240:9;	5
249:4;255:4,6 supporting (7)	
34:22;87:12;	5
136:17;137:12;147:8;	
183:15;226:23 supportive (2)	5
145:22;220:5	
supports (12) 11:6;48:20;67:17;	5
121:3;133:6,6,16;	

230:23;231:7;234:11 supportzoomus (1) 6:5 suppose (1) 78:12 supposed (6) 76:14;77:15;89:4; 141:11;165:23;234:7 sure (56) 6:14,17;8:20;21:9; 25:4,6;27:20;33:9; 48:19;50:11;54:10; 57:22;62:18;72:6; 75:24;76:1,12;77:14, 15;79:15;85:12; 86:19;93:23;94:24; 95:10,12;99:19; 101:2,8;105:14; 108:10;112:13;126:6; 131:12;137:15;139:9, 24;143:18;150:20; 154:3;158:11;159:23; 170:19,25;171:22; 172:9;181:13;189:22; 205:17;208:6;222:9; 223:4,15;227:24; 244:13;248:3 surge (1) 229:6 surgical (2) 68:6.9 surprising (1) 54:10 surrendered (1) 129:1 surrounding (1) 202:6 surveillance (1) 84:7 survey (2) 42:18;229:17 surveyed (2) 34:20;42:16 surveyors (1) 131:11 surveys (1) 229:15 survived (1) 99:9 suspect (2) 52:17;249:6 suspected (4) 124:25;125:1,5; 225:25 sustain (1) 220:8 sustainability (4)

125:17;148:14; 220:6,14 **sustainable (11)** 30:5;93:12,19,19, 24;157:13;202:20;

220:24;222:22;231:2; 252:9 sweep (1) 82:21 sweet (1) 92:6 swiftly (2) 199:11:232:8 Swiss (4) 203:6;204:17; 206:8,11 switch (4) 12:25;13:1,4;107:6 switched (1) 238:4 symbol (1) 247:14 synthesized (1) 240:18 synthetic (19) 29:4;35:19;47:24; 48:1;49:1,6;50:9; 64:4;68:16;121:14; 128:11;148:12,13,15; talks (2) 149:20;157:8;158:1; 240:18,23 tape (1)System (37) 16:25;20:22;25:13; 28:9,17;29:15,19; 33:14:40:24:43:19; 65:16;71:1;102:8; 108:14,21;109:11; task (5) 110:10.20;112:14; 117:13;128:7;157:13; 163:14;165:24; 168:18,21;169:2; 171:11;173:23;174:6; 192:1;224:7,17; 245:9;246:5;250:7; team (7) 251:19 Systems (9) 15:18;31:17;69:22; teams (1) 70:6,6,7;114:8;116:8; 202:20 Т teat (2) table (5) 108:8,11;158:10; teats (2) 179:24;203:9 tackled (1) tech (2) 25:2 taint (1) 223:11 takeaways (1) 159:5 talk (34) 15:11;20:16;23:23; 38:16;69:25;81:2; 99:24:108:7:110:14;

148:9

89:20

64:10

19

7:2

156:9:159:20:163:9. technologist (1) 10;166:22;177:25; 11:6 technology (3) 180:23;182:16; 191:18,20,22,24,25; 33:5;64:20;228:24 telling (1) 194:23;205:24; 207:18;236:18 217:2 talked (10) tells (1) 217:10 53:6:56:1:97:4; 133:3;143:24;150:13; temperatures (2) 178:22;210:1;224:16; 42:10:49:18 233:19 template (12) 31:6,7;110:3;117:8; talking (30) 15:8;17:2,6;34:5; 168:15;170:3;172:22; 38:18,19,22;43:17; 174:14,23;176:9,16, 53:15;59:5;63:11; 23 85:17;91:7;104:17; templates (2) 145:18;147:22; 170:1;172:13 ten (2) 150:12;154:10; 76:18;218:4 158:23;172:18; 173:12;180:25; tend (2) 106:7;144:4 185:22;194:23; 196:12;221:12;243:5, tenor (1) 22;245:17;252:20 235:11 term (1) 80:19;85:16 169:24 terminologies (2) 229:11 93:9,15 target (3) terms (14) 36:3;42:15;45:3 84:12;121:24; targeted (1) 167:21;187:23;190:3, 133:18 5;206:9,11,24,24; 224:2.2:236:23:255:1 4:23:5:9,16:37:15; territory (1) 51:7 taskbar (1) test (30) 8:24;12:15,23;33:2; teaching (1) 65:9;78:16;103:1; 118:16;122:4,15; 125:7,14;127:3,16; 67:11,17:176:23; 141:20;182:14,15; 202:23;203:1;208:1; 195:21;196:4;221:17; 233:12 225:20;226:12,20; 229:20;231:18,25; 241:11,12;243:2; 219:16 244:21 teaspoon (1) 196:11 tested (15) 76:13,17;110:20; 30:24;238:1 121:4,19,20;142:10, 11;154:21;182:18; 47:10,13 209:15,15;218:5; 221:18:234:16 121:10;225:10 testified (2) technical (9) 97:1:247:13 4:24;5:2;6:4;25:5; testimony (1) 132:16;167:23; 69:4 testing (95) 168:10,11,15 techniques (1) 57:21;65:6,12,13, 15,17;76:20,22; technological (2) 77:14;84:1,4;86:16; 231:4,13 101:18:107:19; technologies (4) 108:24,25;109:1,4,10, 204:21;222:12,14, 15;110:11,18;111:23; 112:8,13,23;121:16,

21,24;124:8,11,13,18, 20,23;125:4,11,17; 127:2,4,7,12,12,13; 128:6,10,14;130:17; 141:7,14,20;142:21, 23:143:10:155:2; 182:10,16,23;183:6,8; 184:20;185:13,14; 186:6,11,12;199:17, 18,19;209:13;217:14, 21;220:19,22;221:1; 225:12,14,18,18,19, 22;226:3,7,24;228:7; 231:23;232:4;234:2, 13,18;242:15;244:17; 248:13;254:17; 255:11 tests (9) 33:1;76:18;86:14; 122:1,14;125:2,3; 143:4;226:12 Texas (8) 57:13;58:14,15,17; 59:2,3;96:22;126:16 thankful (1) 29:1 Thanks (171) 11:11;13:17;15:23; 18:19,21;20:23,24; 21:18:22:20,22:24:2; 25:7,12:26:9,10; 27:25:30:10.13: 33:18;34:7;35:9; 38:12;46:4,5;48:15, 18;50:14,15;52:25; 53:2,3;56:23;58:7; 61:4;63:18;65:21; 66:14,14;69:6;70:11; 72:9,13,24;74:1,3; 75:5,7,9;76:1;77:17; 79:25;82:8,14,14,16, 18:85:9,13:86:25: 88:24,25;89:3,10; 95:8,22;96:10;98:13; 99:17;100:22;101:1; 103:16;106:10; 107:11,16;110:6; 115:13;118:4,4,6; 121:9,13,23;122:9,10, 24;123:3,6,22; 125:20;127:17;128:2; 130:9,12;132:12; 138:1;139:8;142:17; 146:12;147:10;150:2; 151:24;152:16; 153:22;155:25;156:6; 158:21;161:14;165:2; 167:25,25;170:18,22; 173:7;174:7,11; 176:23;180:6;181:13; 183:12,14;186:23; 187:1.11:189:17; 191:2;193:16,18;

- Vol. 2 April 25, 2024

194:22;196:22;198:3, 17:201:20:202:10.10: 205:4,7,9;208:15; 210:14,17;214:6; 215:25;218:11,19; 219:3;224:19,20; 227:4,15;230:5,9; 232:24;233:3;235:6, 14;237:6;238:12; 239:18:242:3,6,24; 245:6;246:17;249:10; 253:23;255:17;256:2, 12,13,15,21 theirs (1) 182:15 therefore (3) 60:14;61:16;217:7 thinking (15) 15:25;43:7;91:7; 116:9;117:11;139:21; 166:23;173:25;180:2, 3,4;181:23;184:4; 220:1;251:16 third (3) 191:24;194:23; 242:14 third-(1) 242:15 third-generation (1) 199:8 third-party (3) 212:12:239:25: 240:13 thorough (3) 88:12,23;94:1 thoroughly (1) 234:10 though (15) 4:22;19:25;24:3,13; 40:6,22;111:7; 115:10;143:25;171:3; 177:6;195:23;198:5; 244:4;249:24 thought (8) 36:3;73:14,23; 82:12;102:19;117:8; 176:25;244:9 thoughts (6) 69:18;89:18,22; 90:12;105:12;177:25 thousand (1) 218:4 thousands (1) 212:14 thread (2) 164:21;174:21 threat (1) 228:4 threaten (1) 102:22 threatening (2) 154:13:212:3 threats (1)

114:23;115:2;128:16;

146:16;148:6;150:9;

139:22:144:20;

Spring 2024 Meeting	1		1	April 23, 2027
213:5	timing (2)	34:21;42:18;60:4;	97:6,10;99:15;139:2;	164:10
	timing (2)			
three (23)	142:20;203:24	230:13;256:7	210:25	training (5)
7:3,10;22:4,10,19;	Tiny (3)	tolerance (2)	tougher (2)	84:18;226:9,11,16,
23:8;26:5;36:6;52:23;	25:25,25;163:8	103:4,6	99:7;197:19	21
82:4;96:25;97:3;	tipping (1)	tolerances (3)	toward (3)	traits (2)
103:6;128:20;155:8;	153:15	103:3;200:1,2	28:17;31:13;108:21	53:21;100:14
156:15;157:13;158:2;	tired (1)	ton (4)	towards (4)	transaction (1)
180:20;191:17;200:7;	194:17	61:12;76:3;120:10;	52:2;70:6;124:25;	200:22
247:4;252:17	tissue (3)	250:5	232:7	transcript (2)
three-year (4)	196:4;203:7;206:12	tone (1)	town (1)	5:8;6:10
22:15;231:12,14,18	title (2)	235:11	209:14	transcriptionist (1)
threshold (2)	21:5,7	tons (8)	toxic (2)	6:12
28:6;242:11	today (104)	88:15,16;99:23;	237:21,22	Transcripts (1)
thrive (2)	6:13;7:22,25;11:2,	120:3,5;213:17,21,22	toxicity (1)	8:10
164:12;219:25	13,20,22;12:19;	took (10)	240:21	transcript's (1)
thriving (2)	18:25;20:12;21:18;	14:18;35:20;39:19;	toxins (2)	6:12
71:21;102:18	23:2;30:13;32:23;	80:11;82:11;160:25;	28:8;88:8	transdisciplinary (1)
throughout (7)	56:23;61:6;63:16;	166:21;197:18,18;	TR (15)	203:1
7:9;12:4;55:25;	64:10;65:22;66:12,	216:12	31:6;117:8;170:1,2;	transition (48)
101:16;121:21;124:2;	15;69:9;70:9,18;74:4;	tool (5)	172:12,21;174:14;	9:8;22:3,4,11,12,
136:7	77:23;80:1;82:1;83:5;	57:22;67:19;	175:4,6,18,21;176:9,	14;23:9,15,16,18;
throw (2)	87:11;92:11;97:4;	111:23;116:16;	16,22;181:5	24:9,19;45:18;58:3;
38:13;45:14	99:20;100:22;101:11,	182:10	trace (6)	71:11,13,22,25;74:5,
thrust (1)	18;104:10,15;105:8,	toolbar (1)	68:9;137:17;	6;83:15,18,20;104:7,
193:21	13;106:11,23;107:17,	107:4	195:22,24,25;228:15	8;155:18;156:7;
Thursday (2)	18;114:2;118:5;	toolkit (4)	traceability (7)	161:19,20;164:8;
18:24;97:3	122:10;124:7;125:24;	94:5,7,24;95:4	109:18;112:3;	184:4,6;190:13,19;
thus (1)	126:5,8;127:4,18;	tools (8)	135:3;228:2,20;	200:18;201:14,15;
85:7	130:13;139:2,9;	38:23;109:17,18;	234:7,8	205:17;206:19;
tie (3)	140:10;141:8;143:12;	111:8;114:16,25;	Tracey (10)	228:16;231:8,11,12,
22:8;23:14,16	147:10;152:21;156:6;	115:1;143:1	46:7,13;56:25;	14;232:8,16,16,22
tied (1)	159:12;168:1,6,14;	top (4)	63:19,21,23;65:19,20,	transitional (1)
106:2	180:2;182:10;183:15;	4:10;159:5;184:5;	22;66:14	89:15
ties (1)	184:8;187:12;191:1,	195:9	track (4)	transitioning (8)
200:16	2,18;192:17;193:19;	topic (8)	114:20;130:23,23;	9:7;23:18;26:1;
tie-ups (1)	199:7;201:23;202:11;	23:10;45:7;69:20;	205:11	58:1;155:21;156:15;
42:11	213:12;214:6;219:1;	109:13;115:10;117:9;	trackable (1)	202:25;255:8
tight (5)	220:18;222:2,7;	185:5;194:23	130:21	transparency (6)
16:3;22:23;158:19;	223:11;224:20;	topics (4)	tracking (2)	28:22;29:21;
	· · · ·			
186:23;237:3	229:24;230:9,21;	11:20;41:17;110:2;	155:6;176:24	176:19,21;178:17;
tighter (1)	233:4,13;240:6;	117:6	tractor (1)	214:18
79:16	245:7;246:13;247:16;	TOPP (3)	140:4	transparent (3)
tile (3)	251:4;253:7;254:13,	23:21,22;26:1	Tractors (1)	8:16;168:9;220:22
6:2,15;7:13	20;256:1,12,13,14	tornado (1)	8:4	transport (1)
tillage (1)	today's (2)	129:22	tractor-trailer (1)	86:20
228:18	8:6;120:1	total (8)	138:19	transportation (6)
time-efficient (1)	toes (2)	35:25;51:12;53:16;	trade (7)	106:3;126:2,12;
124:16	106:23;140:10	54:21;149:3;213:20;	108:8;113:5;	131:3;144:5;204:25
timeframe (2)	together (15)	223:16;243:1	119:10,11;211:7;	transporting (1)
116:24;241:17	22:8;24:7;72:2;	Totally (9)	212:9;229:11	228:11
Timeless (5)	108:20;111:24;115:2;	19:22;39:20;81:21;	traded (2)	travels (1)
140:22,22;141:6,9,	117:8,9,12;149:4;	90:11;117:24;163:6;	186:10;212:25	208:16
140.22,22,141.0,9,	174:12;202:23;203:3;	173:16;246:7,12	traders (1)	treat (2)
timely (2)	232:21;242:8	totes (1)	247:22	92:8;93:22
81:9;130:19	toggle (2)	147:1	traditional (2)	treated (3)
timer (7)	5:21;7:5	touch (1)	219:18;245:10	33:11;120:16;200:3
6:1;7:11,13;12:14,	toggled (1)	185:4	traditionally (2)	treatment (3)
15,23;13:1	13:8	touched (1)	89:19;251:1	32:13;68:8,21
times (11)	Togo (2)	60:23	trail (2)	treatments (2)
34:14;35:23;36:7;	105:21;229:5	touching (1)	155:15;212:10	32:17;68:16
42:10;110:10;144:13;	tolazoline (1)	207:9	train (1)	treats (1)
152:23;186:9;196:9;	68:8	tough (9)	234:15	184:6
220:13;229:24	told (5)	24:15,18;39:2;58:2;	trained (1)	tree (1)
		, , , , , , , ,		

177:6 trees (3) 172:3,7,23 tremendous (2) 104:24;105:24 tried (7) Tucker (1) 23:4,4;40:6;41:6,7; 162:3 45:16:160:5 Tuesday (5) trillion (2) 243:4:245:13 107:22 trillions (1) tuned (1) 163:13 162:17 trouble (6) turbulent (1) 50:21;66:24;98:25, 220:13 25;174:20;182:21 Turkey (2) **TRs** (5) Turkish (1) 174:18;176:14; 178:3,15;180:10 120:7 turmoil (1) truck (9) 59:7;78:20;106:3,7; 215:13 124:4;127:14;147:1; turn (9) 156:23:234:15 trucking (2) 59:13:156:19 truckload (1) Turner (9) 147:6 truckloads (1) 155:15 trucks (1) turning (1) 106:3 15:15 true (7) Tutoring (1) 108:16:127:16: 102:5 159:8;198:20;221:17; **TUV**(1) 234:6.17 240:13 truly (8) **TWIC (2)** 28:14;109:2; 131:2.22 120:17;167:2,2; twice (2) 232:13;233:23;241:6 Two (37) trust (6) 29:23:102:2:168:8; 229:15,17,18 trusted (1) 229:16 trusting (1) 86:6 try (30) 33:1;34:2;37:16; 41:2;50:20;54:22; 55:22;56:12,19;57:5; 61:16;77:14;95:12; 96:8:98:11:101:4; 252:15 107:9;123:18;126:21; 135:22;160:18; two-day (2) 175:10;178:7;191:10; 4:15;7:22 198:12;201:13; twofold (1) 241:16,24;246:20; 91:13 249:21 Ty (8) trying (36) 14:14;34:11,25; 35:3;36:2;37:24; type (7)39:21:41:3:43:24: 44:5;45:16;53:8,12, 20;56:3,17;66:3;77:9; 253:8

89:25;113:24;122:5; types (6) 126:20:129:2:140:10: 33:22:122:1.14: 185:8;195:6;214:11 143:8;178:14;189:13, 14;195:1,2,5;207:3, typical (1) 10,10;242:7;251:18 97:2 Typically (2) 188:6:234:5 U 4:12;7:24;8:4;97:1; ubiquitous (1) 236:10 Ukraine (15) 86:2;102:2;105:21; 185:6,9,18,21,22; 105:21;132:4 187:14,16,22;188:16, 20,23;189:16 ultimately (2) 134:6;212:23 unable (1) 4:215:10.18:6:16.24: unanswered (1) 7:15;113:24;126:10; 23:12 171:9;229:12 unapproved (1) 239:3 10:16,17;53:2;73:6; unattached (1) 177:18;179:7;187:1; 43:7 206:23;207:18 unavailable (1) 153:10 unbalanced (1) 149:13 uncertainty (1) 176:3 unchecked (1) 63:2 uncovered (1) 175:5 129:18;197:11 under (22) 7:3;16:24;17:8,8; 4:14:11:15:12:12: 29:12:30:22:45:14: 30:16;45:23;52:15; 51:24:68:16:96:21; 54:2:59:23:91:21; 104:23:134:12: 92:9;103:4;110:20; 161:20;171:11; 119:15,25;128:25; 176:19;199:20;201:5; 129:1;134:5,23; 226:8;240:21;242:12, 138:13;145:8,17; 16,17 undercutting (1) 155:8;156:17;157:8, 12;158:1;159:5; 212:2 197:5;198:6;203:19; undergo (2) 207:19;209:1;214:8; 220:19:231:12 225:15;227:8;239:1; undermines (1) 29:15 undermining (1) 236:11 under-processed (1) 153:9 understandably (1) 70:12,14,22;72:9, 109:25 13;74:1,4;75:9 understands (2) 20:10;232:12 33:25:64:5:178:13: understood (1) 200:23;203:17;244:3; 111:23 underutilized (1)

44:8 underway (2) 83:25;131:13 undetected (1) 200:19 undue (1) 48:8 unfair (6) 57:19;62:22;63:9; 183:21:188:12; 190:12 unfathomable (1) 248:17 unfortunate (2) 247:18;248:5 Unfortunately (2) 105:24;129:23 unidentified (1) 26:17 unique (5) 76:3;82:13;97:19; 100:5:126:2 United (21) 51:12:101:19; 102:4;103:2;104:25; 105:21;120:4,22; 121:21;211:19,22,24; 214:25;217:9;232:9; 247:11,13;248:18; 250:17:251:23; 252:22 units (2) 97:2:198:7 universal (2) 157:9,23 universities (2) 89:12:207:21 University (6) 90:2;202:19,22; 203:4,5;204:11 unknow (1) 175:23 unknowingly (1) 236:19 unless (2) 13:19;236:17 unmanageable (3) 173:18,20,23 unmute (18) 6:18,21,23,23;7:6; 35:8:50:20:57:6; 75:17,17,17;96:8; 118:21;119:2,3,5; 123:5.9 unmuted (4) 57:4;87:5;107:1; 227:19 unmuting (1) 50:21 unnecessarily (1) 108:13 unpack (1) 174:19

- Vol. 2 April 25, 2024

unpackage (1) 171:20 unprecedented (1) 220:9 unpredictability (1) 233:20 unquote (1) 121:15 unreasonable (1) 175:10 unrestricted (3) 149:17,20:151:9 unsure (1) 66:16 unsustainable (1) 175:10 untimely (1) 216:12 untreated (1) 54:15 up (129) 7:12;10:18;11:1.20; 12:1;15:21;17:9,10, 13;20:11;23:21; 24:12;25:4;26:18,24; 27:14;30:1;31:24; 33:20;34:9;35:23; 36:9,14,19;38:3,10; 40:5,15,20;41:20; 42:11,23;44:17;45:4; 50:16:51:11.18; 52:15;54:2;56:25; 63:19:66:16:70:12; 71:16;72:7;73:13; 74:9,13,15,18,24; 75:4,10;79:2;82:10, 19:85:1:86:6:90:5: 91:20;92:20;94:6; 95:23,23;96:2,6,22; 97:7:98:6:99:15: 100:19;101:2;106:1; 107:6;112:25;113:1, 10;118:15;123:7,19; 132:6,9;133:24; 135:4,8,21;137:10; 143:14;144:18;146:1; 148:8;150:14;152:13, 23;153:25;161:5; 162:8;164:16;165:17, 22;172:3;176:1,19; 177:11:181:11:190:9; 191:6,10;192:19; 197:2,10:198:14; 202:13;204:18,24; 205:10;208:18; 210:24;216:10; 218:18;221:11; 230:12;233:6;235:2, 16;237:7;239:19; 250:8:256:11 upcoming (1) 166:6 update (4)

- Vol. 2 April 25, 2024

Spring 2024 Meeting		Γ	T	April 25, 2024
109:6;112:20;	100:16;101:17;133:6;	values (2)	113:24;130:23,24;	visual (1)
121:25;130:4	136:23;163:3,5;	28:19;224:2	240:15	243:22
,		·		
updated (6) 47:18;109:1,9;	164:16;168:18;169:4;	vantage (1) 74:10	vessels (1) 110:15	visually (1) 243:10
168:18,21;169:2	171:5;175:6;178:1; 180:8;200:14;203:8,		vest (1)	vitamins (5)
		variability (1) 204:7	131:9	
updates (2) 110:2;129:18	12;204:20,20;206:8; 213:3;228:16;231:24;	variable (2)	veterinarian (1)	35:12;68:9;175:4,6, 13
			67:9	
upholding (1)	238:1;240:2;244:3 useful (3)	152:12;253:15 variables (2)		voice (10)
231:5	178:15;180:13;		veterinary (3)	11:20;48:10;60:19;
upon (1) 126:21	187:5	43:1;144:24 variation (1)	67:11,17;68:23 vetted (1)	63:15;92:22;108:12; 110:9;201:23;210:17;
	user (6)	104:18	234:11	224:14
upper (1) 5:21	44:19;126:4;	varied (2)	via (5)	voices (2)
UPs (1)	248:18;249:15,19,22	55:20;226:3	6:17;71:10;170:23;	61:2;113:4
126:23	users (5)	varieties (1)	181:10;214:7	volatile (2)
urge (5)	40:12;49:13;60:12;	221:24	viability (3)	56:18;220:11
31:6;90:6;235:22;	124:4;146:19	variety (6)	83:17,23;99:24	volatility (1)
236:15;255:10	US-grown (2)	136:5;149:23;	viable (3)	138:21
urges (1)	101:24;141:2	178:11;217:12;222:9,	146:7;148:12;220:7	volume (3)
161:9	using (16)	170.11,217.12,222.9,	viably (1)	186:12;223:17;
urging (1)	6:3;45:19;49:13;	various (9)	250:18	233:24
254:16	57:21;84:7;100:12;	35:23;57:14;59:12;	VICE (43)	vote (1)
Uruguay (1)	126:15;142:25;143:1;	89:16;185:7,8;	9:4;25:2;60:23;	227:10
102:1	166:16;175:7;182:10;	211:10;223:20;224:6	77:20,25;78:18;	voting (1)
USA (1)	194:4;195:14;203:7;	vary (1)	82:10;85:12;99:19;	4:17
248:6	204:23	215:16	100:21;110:8;112:16;	vulnerable (1)
USDA (37)	usually (5)	vastly (1)	122:9,24;130:12;	28:10
8:9;24:6;71:4,7,10;	6:6;49:16;52:8;	167:17	132:10;146:12;147:9;	20.10
74:5;111:22;116:5;	172:19;242:19	vegetable (5)	148:2;156:4,25;	W
121:5;133:18;134:1;	utilization (2)	25:13;52:16;	165:2;166:3,18;	
136:13,16,25;138:8;	33:3;215:14	165:12;166:16;212:6	170:22;171:1,17;	Wade (5)
144:16;149:15;	utilize (1)	vegetables (1)	172:8;187:11;188:15;	95:24;96:3;101:2;
168:20;176:20;	84:4	203:11	189:17;198:3;210:16;	119:4;123:4
182:18;185:20;	utilizing (1)	vegetarian (1)	213:11;214:5,15,24;	wait (6)
207:23;208:11;213:2;	220:20	47:23	215:9,19;224:12;	50:22;114:22;
217:7,13,22;228:25;		vein (1)	230:19;253:5,22	118:10;161:6;256:7,
229:2,5,10,12,13,16;	V	128:12	victims (1)	21
231:6,25;232:3		vent (2)	128:22	waited (1)
USDA's (3)	vacuum (1)	49:16;50:6	video (1)	227:8
168:13;211:18;	11:19	venture (2)	6:15	waiting (2)
231:7	Vaith (1)	51:25;219:12	videos (1)	4:4;231:21
use (61)	230:13	ventured (1)	89:21	walk (2)
5:15;7:5,11;32:25;	valid (2)	127:10	view (8)	130:15;131:8
33:12;39:12;41:22;	178:20;245:14	verification (8)	5:9,19,21,22,22,25;	walking (1)
43:19;44:7,15;45:22,	validate (1)	109:8;111:13;	6:3;179:18	228:18
24;47:3,8;48:13,22;	203:22	125:17;168:9;180:20,	viewpoint (1)	wall (1)
67:14;68:25;70:25;	Vallaeys (1)	20;234:8,21	85:20	176:7
84:9;105:25;106:2,2;	75:11	verified (1)	vinyl (1)	wants (4)
109:7;129:9,11;	Valley (3)	240:13	238:4	54:6;87:25;144:23;
136:13;146:5;149:17,	67:6,15,17	verify (4)	Virginia (1)	160:10
25;151:10;157:11,12,	valuable (4)	86:1;109:1;155:7;	225:10	ware (4)
15,17,19;158:22;	11:19;26:12;60:20;	220:20	virtual (2)	239:25;240:8,15;
168:20;169:18;170:4;	221:23	verifying (2)	8:2;237:7	241:22
171:19,23;172:17;	value (15)	109:10;226:22	virtually (2)	warehouse (1)
173:13;178:5,25;	31:16;45:15;	Vermont (3)	167:9;237:18	99:4
192:1;193:24;194:3,	120:12;126:9;136:10;	159:19;164:17;	visibility (2)	warm (2)
5;195:2,2,7,12;196:9,	144:2;145:21;159:7;	166:9	131:9;212:10	50:5;153:13
19;198:12;209:3;	187:3;221:19;224:7,	versus (6)	visible (1)	warming (2)
221:1;240:3;250:20	8;249:1;251:18;252:1	19:4;59:7;90:15;	7:13	28:6;245:21
used (36)	value- (1)	122:13;129:5;249:25	vision (1)	warning (1)
29:5;39:18;40:15;	133:20	vertical (2)	28:21	26:23
43:8;44:16;45:20,22;	value-added (2)	146:14,17	visit (2)	wary (1)
47:11,14;49:1;67:23;	138:17;219:15	vessel (4)	6:4;131:7	114:9

Burke Court Reporting & Transcription (973) 692-0660

washed (1) 195:10 waste (6) 239:5 157:14;169:21,22; weeks (4) 241:9;245:25;246:10 watchdog (1) weigh (1) 84:17 watched (3) 105:11 78:8;91:19;229:4 weighing (1) watching (1) 237:8 106:18 weight (1) 78:16 water (4) 105:21,23;241:1; Welcome (19) 244:19 way (52) 4:14;8:24;22:17; 24:13,17;25:6;30:6; 37:3,5;73:18;80:10, 16;84:6;90:5;115:2; 117:19;119:22; welcoming (1) 7:17 122:12;124:16; welfare (20) 131:16;135:4;136:20; 137:18;139:14; 142:24;144:13;147:4; 156:23;161:18; 163:25;170:3;172:25; 175:20,20;179:4; 153:1,17 181:12:182:24; well- (1) 190:24;194:9,10; 164:9 201:13;209:8;220:7; 223:25;226:21;228:6; 151:17 229:18:237:13.18: weren't (4) 246:1,4:251:18 ways (17) West (11) 35:24;39:13,16; 56:17,18;86:17; 87:12;89:23;117:21; 122:13;129:15; Western (3) 175:19;194:9;203:14; 222:10,23:232:15 wear (1) wet (1) 127:23 189:7 weather (4) wetlands (1) 28:4;49:17;189:7; 40:1 216:13 whatnot (1) webinar (5) 161:2 4:15;6:6;7:23;8:6; what's (14) 256:23 webinars (1) 4:14 website (2) 6:11:8:10 websites (1) wheat (10) 228:25 weed (6) 55:18;56:8,11; 188:24,25;197:22 whenever (3) weeding (1) 188:18 Whereas (2) weeds (5) 81:9;86:23;88:19; Whereupon (1) 92:8:228:18 256:23 wherever (3) week (8)

8:3:82:6:132:7 4:16;8:6;93:10,10; 97:5:169:15:235:23: white (1) 214:12 whole (25) 111:9;117:15; 5:24;15:2;16:6; 17:19,22;18:6,10,12; 120:3;189:11 20:6;21:16;29:15; 51:4:62:20:72:1:86:3; 90:3,18;95:1;127:5; 182:19;193:5;197:17; 210:7;213:18;241:9 wholesalers (1) 157:21 4:3;5:5;7:23,24; who's (3) 49:23;95:23;162:13 9:11,17;11:13,14; 32:2;70:10;105:5; whose (1) 106:9;123:2;130:8; 233:24 147:12;191:9;224:21; widely (4) 227:11;233:5 67:23;121:21; 215:16;226:3 wider (1) 149:22 36:15;38:1,15,18, widgets (1) 22;40:4,5,7,11,19; 7:1 69:10,13,16,20;70:5; wife (1) 150:12,18;152:23; 87:15 wild (1) 215:11 wildfire (1) well-described (1) 94:20 willing (2) 79:8:129:25 75:13:196:7; win(1)197:25:246:8 64:24 Wind (2) 159:19;195:11 4:6;51:5;58:15,17; 59:2,3:96:16.23; window (2) 109:23;123:14 105:17;106:4;126:16 winter (2) 154:6:185:8:188:23 137:7:139:11 Wisconsin (4) 8:7:137:7:216:7; 256:18 Wisconsin- (2) 202:19;204:11 Wisconsin-Madison (2) 202:23;203:5 10:20;14:14;15:20; wish (6) 12:8;86:8;99:20; 33:5;44:21;77:1; 109:19;110:25; 140:3;162:2;227:7 127:16;177:16;178:8; wishes (2) 187:5:244:18:253:13 198:15:216:23 wishing (1) 56:9;57:14;65:8,11; 231:11 within (14) 83:3;86:3;145:4; 189:1;254:21,23 17:3;34:3;45:23; 105:12;115:22; 59:24;129:8;172:6 122:12;127:13; 136:17;149:21; 80:21:127:14 161:18:206:12; 212:14;226:15; 232:13 without (20)

29:5:31:25:35:13. 18:48:3:71:2:100:14: 102:25:103:10; 104:16:108:12:143:6: 158:7;201:3;217:23; 228:19,20;237:14; 241:25;252:1 wonder (1) 44:23 Wonderful (9) 21:23;30:17;46:2; 61:1;70:16;73:4;94:3; 96:13;135:16 wondering (10) 19:3,11;38:21; 43:22;151:25;163:14; 173:18;221:14;237:9; 244:12 Wood (7) 10:16;53:1;73:5; 177:16,17;186:25; 206:22 word (4) 43:5;94:17;95:6; 111:18 words (2) 53:5;254:15 work (97) 24:7;30:3,4,8; 33:13:43:10:45:8.22; 53:3:57:16:58:4:67:9: 71:11:72:1:75:4: 77:11:96:20:97:16, 17:98:8:100:17: 108:25;109:16;110:4; 111:24,24;114:5; 115:2;116:19,20,25; 117:9,25;118:2; 119:3;126:20;128:13, 25;131:23;132:2,13; 133:23;134:21; 143:12:145:10; 146:13,19;148:9; 154:6,23;156:7,14; 161:21;165:23; 167:10;168:12;169:5, 18;170:8;173:10; 175:8;176:14,15,22; 178:18;182:25; 183:15;184:2;186:20; 188:2;203:3;204:11, 14;205:16;207:13; 209:9;214:6;219:23; 220:25;221:4,4,7; 222:12;224:19; 225:17;228:15; 229:19;230:3,23; 232:3,19,22;235:22; 252:18;255:13,14,15 worked (12) 21:16;28:25;37:15; 97:20;98:4;100:8; 132:9;137:4;146:19;

211:10:225:10.11 worked-in (1) 171:2 Worker (1) 131:3 working (47) 24:5,5,10,19;34:21; 46:1:63:15:73:18,18; 90:5;108:17;109:20; 112:17,18,25;113:1,1, 7,9,12;116:22,23,24; 117:5;121:24;146:21; 156:10,10;161:10,20; 171:3;172:6;185:5; 202:20,21;203:22; 205:14;206:18;207:8; 216:15;220:25;228:1; 232:20;234:9;238:25; 254:14:255:25 workloads (1) 112:9 works (10) 67:11;111:10; 128:19;131:2;132:22; 135:23;155:14;164:5; 175:12;232:7 workshops (2) 89:14,20 world (17) 44:2:52:17:63:25: 64:14:66:9:91:6; 100:6:101:20:126:23: 163:15;184:2;217:4; 220:14;229:8;239:24; 249:9;250:23 worms (1) 37:7 worried (1) 28:5worries (1) 67:1 worry (3) 5:14;74:6;163:8 worse (5) 103:11;129:16; 130:5;180:9;209:22 worst (2) 102:19;150:21 worth (2) 129:13;134:14 wound (1) 68:6 Wow (1) 93:18 wrap (2) 218:18;238:3 wrapping (1) 175:17 wraps (2) 236:5;256:11

wrinkle (1)

72:21

write (1)

- Vol. 2 April 25, 2024

Spring 2024 Meeting				April 25, 2024
161	105 17 104 0 200 10	107.11	1005 (1)	205 (02 (1)
16:1	185:17;194:8;200:19;	197:11	1985 (1)	205.603a (1)
writes (1)	202:22;205:11;206:5;	1:20 (2)	99:12	47:3
170:6	207:4;211:10,25;	95:19;96:1	1987 (2)	205.670b (1)
writing (4)	216:15;220:9;234:1;	1:35 (1)	140:23;216:12	225:15
15:17;17:6;117:17;	236:20;239:1;252:15,	96:1	1990s (2)	20-second (1)
176:11	17;254:24;255:16	10 (15)	30:20;101:12	161:12
written (14)	years' (1)	41:6;42:19;51:21;	1992 (2)	212 (1)
83:12;85:14;	102:24	71:4,19;127:14;	14:10;216:14	100:11
110:13;119:23;	year's (2)	160:1;189:11;191:4,	1996 (1)	214 (1)
122:25;128:5;130:13;	115:22;162:15	7;195:17;196:18,18;	97:25	100:11
170:2;172:25;181:7;	Yep (13)	228:3;252:22		219 (1)
214:7,9;226:8;237:10	9:24;35:5;54:6;	100 (15)	2	99:12
wrong (9)	57:10;67:4,5;95:5;	79:15;93:3;133:10,		238d1 (1)
37:17,25;63:2;	132:5;182:2;199:4;	23;140:1;159:25;	2 (3)	31:3
84:13,13;104:12;	207:17;232:24;237:5	163:21;165:10;188:9;	29:11;122:21;	24 (1)
111:18;114:21;135:9	Yesterday (2)	197:9;199:9;242:16,	189:11	254:24
wrote (1)	155:11;163:2	17,25;243:1	2,000-pound (1)	24-hour (1)
15:15	yield (8)	100,000 (3)	147:1	32:17
	55:18;100:1;	81:17;82:3;243:5	2,4-D (1)	24-year-old (1)
X	137:14;161:12;195:5;	10-year-old (1)	189:11	254:19
	196:8;233:25;251:3	91:18	2,500 (1)	25 (5)
xylazine (1)	yielder (1)	11 (1)	2,300 (1) 254:20	80:5;136:4;192:5,
	81:2	4:10		25;196:25
68:8			2:20 (1)	
Y	yields (14)	11:00 (1)	118:13	2610 (2)
<u> </u>	52:10;56:9;64:11,	4:2	20 (11)	124:22;225:13
	16;80:25;81:3,9;	112 (1)	51:21;55:20,21;	2611 (1)
y'all (1)	104:19,19,22;189:14;	94:18	77:8;98:7;102:16;	225:13
50:14	197:14;200:17;	12 (1)	109:6;154:6;167:14;	2611-1 (3)
yard (1)	254:22	71:4	194:8;218:4	199:22;225:16,21
169:22	Yoakum (1)	13,000 (1)	200 (3)	2613 (1)
Yay (1)	58:21	70:25	104:17,20;254:20	199:24
247:1	yogurt (1)	141 (1)	2000 (1)	28 (1)
year (50)	133:21	99:12	254:20	216:14
22:13;42:10;45:25;	York (2)	15 (5)	2002 (1)	29 (1)
51:20;52:15;54:2;	132:7;136:4	51:8;52:1;116:14;	172:4	256:24
59:20,23;60:2;61:7;	young (2)	124:2;252:23	2010 (1)	291,000 (1)
65:22;71:16;76:10,	69:3;91:20	150 (1)	30:21	213:22
25;77:22;80:8;81:6;		173:12	2012 (1)	29th (1)
91:21,21;96:24;	Z	1500 (1)	97:9	256:17
97:19;98:10;99:15;		14:5	2013 (1)	
114:7;115:17,24;	Zamora (1)	15-minute (1)	57:15	3
116:9;129:19;138:13;	10:24	95:11	2016 (1)	
140:6;144:17;145:2,	Zimmerman (1)	163 (1)	235:25	3 (1)
4,24;146:8;153:7;	26:25	22:2	2017 (1)	195:17
156:14;159:24;	Zoom (12)	17 (1)	63:24	30 (14)
160:16;161:6;186:17;	4:23;5:7,9,11,16,	87:15	2020 (1)	14:13;34:6;51:13;
188:2;195:15;198:9;	19;6:2;7:2,13;27:2;	18 (4)	216:21	56:1;71:15;78:25;
207:1;218:7;229:5;	107:3;254:13	90:20;91:19;221:7,	2022 (3)	80:5;95:20;97:17;
237:9;239:1;254:20		10	148:22;153:7;	102:24;127:24;148:3,
years (62)	0	180-day (1)	192:16	4;192:19
14:13,19;24:24;		243:15	2023 (3)	30,000-ton (1)
34:6;36:12;41:6;	0.3 (1)	18-month-old (1)	129:20;213:20;	218:25
45:23;51:5,8,8;52:1,	195:18	69:2	254:21	35 (4)
13;55:20;59:22;71:4,		190 (1)	2024 (2)	55:20;95:20,21;
4;87:14,15;90:20;	1	81:6	28:4;256:24	120:8
91:19;93:20,21,21;		1930s (2)	2026 (1)	360 (1)
98:7;102:16;109:6;	1 (3)	133:8,15	148:8	144:12
114:23;116:14;124:1;		1930s-era (1)	204 (1)	360,000 (1)
125:13;127:24;	1,000 (2)	133:5	254:22	120:5
128:20;129:1;136:4;	22:3;134:8	1977 (1)	205.403d3 (1)	
137:4,7;139:3,16;	1.5 (1)	97:9	225:14	4
148:3,4;157:8;	28:6	1980 (1)	205.603 (1)	•
159:22;167:14;170:9;	1.8 (1)	14:4	47:18	4:00 (1)
157.22,107.14,170.7,				

Spring 2024 Meeting	
191:8	91:18
4:10 (1)	70 (5)
191:8	
	51:12;56:2,9;120:5; 142:3
40 (6)	
52:6;54:12,21;56:9;	75 (1)
80:5;104:23	254:23
41,510 (1)	0
120:3	8
45 (1)	
256:14	8 (2)
47 (1)	4:10;91:18
4:4	800-plus (1)
	216:6
5	80s (4)
	97:9;99:9;133:4,4
5 (4)	80-some (1)
65:14;131:8;	94:23
149:21;154:21	823 (9)
5:45 (1)	23:4;71:15;72:2,4;
256:23	73:6;74:4,13;155:16;
	191:21
50 (5) 70:1:101:25:161:4:	
79:1;101:25;161:4;	86 (1)
185:21;192:11	15:12
50,000-foot (1)	
253:9	9
50s (1)	
39:19	9 (1)
50-year (1)	91:18
216:5	9:00 (1)
526,000-plus (1)	256:24
213:21	90 (2)
526,728 (1)	78:9;101:25
213:17	
	90s(3)
53,000 (1)	14:8;80:11;98:6
70:24	99 (1)
54 (2)	244:4
51:5,8	
55 (1)	
81:7	
56 (1)	
216:21	
5602 (1)	
123:11	
58 (1)	
JU (1)	
254:22	
254:22 59-year-old (1)	
254:22	
254:22 59-year-old (1)	
254:22 59-year-old (1) 216:5	
254:22 59-year-old (1) 216:5 6	
254:22 59-year-old (1) 216:5 6 6 (3)	
254:22 59-year-old (1) 216:5 6 6 (3) 69:1;122:17,18	
254:22 59-year-old (1) 216:5 6 6 (3) 69:1;122:17,18 60 (3)	
254:22 59-year-old (1) 216:5 6 6 (3) 69:1;122:17,18 60 (3) 104:22;120:6;	
254:22 59-year-old (1) 216:5 6 6 (3) 69:1;122:17,18 60 (3) 104:22;120:6; 185:21	
254:22 59-year-old (1) 216:5 6 6 (3) 69:1;122:17,18 60 (3) 104:22;120:6; 185:21 603 (2)	
254:22 59-year-old (1) 216:5 6 6 (3) 69:1;122:17,18 60 (3) 104:22;120:6; 185:21 603 (2) 30:23;32:7	
254:22 59-year-old (1) 216:5 6 6 (3) 69:1;122:17,18 60 (3) 104:22;120:6; 185:21 603 (2) 30:23;32:7 65 (1)	
254:22 59-year-old (1) 216:5 6 6 (3) 69:1;122:17,18 60 (3) 104:22;120:6; 185:21 603 (2) 30:23;32:7	
254:22 59-year-old (1) 216:5 6 6 (3) 69:1;122:17,18 60 (3) 104:22;120:6; 185:21 603 (2) 30:23;32:7 65 (1) 185:21	
254:22 59-year-old (1) 216:5 6 6 (3) 69:1;122:17,18 60 (3) 104:22;120:6; 185:21 603 (2) 30:23;32:7 65 (1)	
254:22 59-year-old (1) 216:5 6 6 (3) 69:1;122:17,18 60 (3) 104:22;120:6; 185:21 603 (2) 30:23;32:7 65 (1) 185:21	

UNITED STATES DEPARTMENT OF AGRICULTURE NATIONAL ORGANIC PROGRAM NATIONAL ORGANIC STANDARDS BOARD MEETING (NOSB) SPRING 2024 Monday, April 29, 2024 Hilton Milwaukee City Center - Arena Wright Ballroom 9:00 a.m., CST Day 3

1	National Organic Standards Board (NOSB) Members
2	Kyla Smith, NOSB Chair
3	Amy Bruch, NOSB Vice Chair (Virtual)
4	Nate Lewis, NOSB Secretary
5	Brian Caldwell
6	Jerry D'Amore
7	Carolyn Dimitri
8	Kim Huseman
9	Mindee Jeffery
10	Allison Johnson
11	Dilip Nandwani
12	Nate Powell-Palm
13	Logan Petrey (Virtual)
14	Franklin Quarcoo
15	Wood Turner
16	Javier Zamora (absent)
17	
18	
19	
20	
21	
22	
23	
24	
25	

1	USDA/National Organic Program Staff
2	Dr. Jenny Tucker, NOP Deputy Administrator
3	Michelle Arsenault, Advisory Committee Specialist
4	Erin Healy, Director, Standards Division, NOP
5	Jared Clark, Acting Assistant Director, and
б	National List Manager, Standards
7	Andrea Holm, Agricultural Marketing Specialist, Standards
8	Johanna Mirenda, Agricultural Marketing Specialist,
9	Standards
10	Heather Kumar, NOSB Technical Support Staff
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	

1 2 AGENDA 3 Call to Order 4 Dr. Jennifer Tucker, NOP Deputy Administrator 6 5 Welcoming Remarks Randy Romanski, Secretary, 8 6 7 Wisconsin Department of Agriculture 8 Agenda Overview 9 Dr. Jennifer Tucker, NOP Deputy Administrator 16 10 NOSB Introduction Kyla Smith, NOSB Chair 18 11 12 Secretary's Report Acceptance of Fall 2023 Meeting summary 23 13 as official record 14 15 NOSB Report 16 Kyla Smith, NOSB Chair 23 Amy Bruch, NOSB Vice Chair 28 17 USDA/AMS/National Organic Program Update and 18 19 NOP-NOSB Q&A Dr. Jennifer Tucker, NOP Deputy Administrator 20 30 21 Erin Healy, Director Standards Dividend, NOP 31 22 39 Q&A 23 43 National Organic Program Update 24 Dr. Jennifer Tucker, NOP Deputy Administrator 25 73 0&A 95 26 Break

1	Midwest Transition to Organic Partnership Program	
2	(TOPP) Presentations	
3	Dr. Jennifer Tucker, NOP Deputy Administrator	97
4	Cori Skolaski, MOSA	97
5	Allison Walent, MOSA	98
6	Roz Lehman, Iowa Organic Association	104
7	Jacquelyn Evers, The Land Connection	108
8	Lori Stern, Marbleseed	111
9	Kenya Abraham, Organic Association of Kentucky	117
10	Video	
11	Wendy Johnson	121
12	Jean Wiedenhoeft	123
13	HARRIET BEHAR, (MENTOR), Real Organic Project	124
14	NICK STAPLES, (MENTEE)	125
15	Q&A	128
16	Lunch	142
17	Public Comments	143
18	Break	238
19	Public Comments (continued)	238
20	Recess	Error!
21	Bookmark not defined.	
22		
23		
24		
25		
26		

1 2 PROCEEDINGS 3 (Time: 9:02 a.m., CST) 4 CALL TO ORDER I know they're 5 DR. TUCKER: Good morning, everyone. I'm sure they will do that quietly in 6 bringing in more chairs. 7 the back. In the meantime, if you have a empty seat next to 8 you and would like a new buddy, go ahead and raise your hand 9 and somebody can come sit next to you. 10 Good morning, everybody. I'm Jennifer Tucker, Okay. Deputy Administrator of the National Organic Program. 11 Welcome 12 to all of our board members and our audience, both in the room and online. 13 It is my honor to officially open the Spring 2024 14 15 National Organic Standards Board meeting. Let's start with 16 some official business. This meeting, like other meetings of the National Organic Standards Board, is being run based on the 17 Federal Advisory Committee Act and the Board's Policy and 18 19 Procedures Manual. I am your designated federal officer today. 20 Transcripts for all segments will be posted once completed. Just for a little bit of housekeeping, as we are in a 21 22 new space together, our restrooms are immediately outside these 23 There are a number of emergency exits on both ends of doors.

25 the community, there are water tanks around the corner, to the

the hallway. Also, in response to feedback and requests from

24

right and the right again. So if you have a refillable bottle
 and would like to not use throwaway plastic, the hotel was
 gracious in providing that for us. So thank you to them.

4 Let's take a quick look at the agenda and then I will 5 introduce our welcoming speaker, Secretary Randy Romanski, who 6 leads the Wisconsin Department of Agriculture, Trade, and 7 Consumer Protection. After Secretary Romanski speaks, I will 8 introduce the National Organic Program team. Kyla Smith, our 9 new board chair. Yay. Kyla will facilitate board 10 introductions and will lead us through some board reports. We will then do a program update with questions and answers with 11 12 the Board. After a break, we'll hear from members of the Midwest region of the Transition to Organic Partnership 13 14 program, or TOPP. We will then spend the afternoon listening 15 to public comments. Thank you to all of you who came to give 16 your testimony.

Tomorrow, we'll bring -- begin subcommittee work and hear from a compost panel. Subcommittee work will continue this Wednesday, through Wednesday, and then we will close with board business and a look ahead.

Now, I am pleased to introduce our opening speaker, Secretary Randy Romanski, who leads the Wisconsin Department of Agriculture, Trade, and Consumer Protection. Since 2021, Secretary Romanski has led the state agency responsible for promoting the interests of Wisconsin's diverse agricultural, 1 trade, and consumer activities. He has held leadership roles 2 at several state agencies, focusing on issues such as farmland 3 preservation, local foods, farm-to-school, and renewable 4 energy.

5 His experience in agriculture policy and government 6 service also shows his commitment to advancing Wisconsin's 7 agriculture and economic interests. He is advancing the 8 benefits of organic production models and climate smart 9 programs that add value to products to help farmers increase 10 their profits and show the next generation of farmers new and 11 different career opportunities in agriculture.

Prior to his current role, the Secretary held leadership positions at the Wisconsin Department of Natural Resources, Wisconsin Department of Transportation, and state legislature. You do get around. He also served as Deputy Chief of Staff in the Governor's Office and as a policy analyst for the Wisconsin Department of Justice.

Secretary Romanski earned his bachelor's degree in 18 19 political science from the University of Wisconsin at River 20 Falls and his master's degree in public policy and 21 administration from the Robert M. LaFollette School of Public 22 Affairs at the University of Wisconsin at Madison. 23 Mr. Secretary, thank you for being here. 24 WELCOMING REMARKS 25 SECRETARY ROMANSKI: Thank you so much, Jennifer, for 1 that kind introduction. I -- when I hear that, I sometimes 2 hear my father's voice ringing in my ears of, well, that guy 3 can't really hold a job for very long, can he? I promise, I 4 can.

5 I am a career public servant, 34 years, all here in 6 the State of Wisconsin. I'm very proud of being a 7 Wisconsinite. You may catch a hint of that during my opening 8 remarks today. So, most importantly, thank you for being here.

9 I know how important it is to move around, and moving 10 around the country, hearing from different people, listening to 11 others, is an important part of how our agency operates. And 12 hopefully, you'll get a little bit of a feel for that as well.

This is really more for those who are in the room. We are known as America's Dairyland, but we are really so much more. So, as you're here for a while, please do take advantage of sampling some of our food, fuel, and fiber. And there's lots of opportunities here in this area, so we encourage you to do so.

19 If you are online, you're welcome to visit Wisconsin 20 anytime you'd like. We've got a lot to offer. I promise the 21 Department of Tourism did not encourage me to do that, but they 22 are really good partners, so I'll just put that plug in there.

23 So, a little bit about Wisconsin. Remember I said I 24 was going to be really proud and boast just a little bit, but 25 we've all got things and places to be proud of, so you should 1 share your stories along the way. So, agriculture is an \$104.8 2 billion industry in the State of Wisconsin. As I mentioned, 3 we're known as America's Dairyland. We do produce about 50 percent of the United States' specialty cheese, so think about 4 5 There's a reason why people put slices of cheese on that. 6 their head at Packer games. There's a lot of cheese here, but 7 we also export a lot of it too, so maybe you've seen it on 8 store shelves in your area.

So, that's a little bit about our agriculture 9 10 industry as a whole, but, you know, we are number one. We lead the nation in snap beans for processing, cheese, which I 11 12 mentioned, cranberries, ginseng, mink pelts, dry whey for humans, milk goats, corn for silage. And we're a top five 13 14 producer of many other commodities that you like to eat, 15 including potatoes, vegetables, and specialty crops, so there's 16 a lot going on here.

Also, probably, we're the number two organic state in the United States. A lot of people don't know that and might not guess that, so it's especially important and prideful for us to be hosting this event here today.

Just a few things. According to the 2021 Certified Organics Bulletin from the National Association of National Ag Statistics Service, so this was released in December of '22, we have nearly 250,000 acres of certified organic farmland. We rank first in certified organic cranberry production, total about 66 percent of the nation's organic cranberries, and milk from cows. Had the highest total value of sales for organic commodities in Wisconsin at \$107 million. We produce 23 percent of Wisconsin's organic goat milk, and Wisconsin ranked first in certified organic snap beans and fourth in certified maple -- organic maple syrup.

So, I guess, you know, I promise I'm going to stop being very proud of my state here in just a minute and get a little bit beyond that. Okay. I saw somebody saying don't, keep going. All right. I'm going to keep going a little bit. I have some guidance from the crowd.

12 But agriculture of all types and sizes is an important part of our state's economy and very likely an 13 14 important part of the state's economy that you're coming from. No matter where you're coming from, culture plays a role in 15 16 your economy and I'll say this a couple times. Share your stories and tell others your experience. 17 It's really important for other people to hear that as people get more and more --18 19 sorry about that, I talk with my hands. As people get more and 20 more removed from being on the farm, it's important that they 21 hear the stories and they are able to share the experiences 22 that you can offer or that people you work with can offer. 23 Important for them to know where their food, where their fuel, 24 where their fiber comes from, and it's, you know, produced here 25 in the United States.

1 Back to just a short summary of where we're at here. 2 One in nine people in the state of Wisconsin works in a job 3 related to agriculture, and that's a lot. What I would say to 4 that as a follow up is nine in nine of us are consumers and we 5 should know and care about where our food comes from. And we 6 have a great opportunity here in the United States and here in 7 Wisconsin to know our fuel, know our food, know our fiber, 8 because the farmers that produce them or the businesses that 9 are involved are maybe just right down the road and that's 10 pretty cool.

11 What's our role as an agency? DATCP is a resource to 12 the industry all the way along from farm gate to dinner plate. 13 Our agency provides a regulatory component but we also provide 14 a resource component. We educate while we regulate. The 15 process works best when everybody's working together. The 16 farmer, the processor, the inspector, and the consumer all want healthy, safe product. And I think as 17 the same thing: 18 everybody does their part, we all get there together and that's 19 pretty cool too.

Through the organic certification cost-share program, organic advisory council, grant programs, our agency works every day to connect the dots with the public and programs that support production, processing, and consumption of organic products. We also do this by advocating for a comprehensive farm bill that maintains the connection between agriculture and food. And Wisconsin, like many other states -- I work very closely with my counterparts from other states, have consistently been advocating, number one, to get a farm bill done and, number, two to make sure that that farm bill is comprehensive and well-funded.

6 You know, I -- I am a -- I'm going to say I am the 7 head of a state agency and there are times where I ask our 8 legislature for resources because it's important that we are 9 able to be a resource to farmers. Our partners at USDA also 10 need to have the resources to be able to make that connection We also need to make sure that we keep our 11 with farmers. 12 feeding programs connected, that farmers have a safety net, we're investing in research. There's a lot that needs to be 13 14 done as part of a farm bill. I know that takes time, but it is 15 really important to our state, to our nation.

16 I talk about connecting the dots, too. You know, I am really fortunate to work for a governor who understands and 17 invests in agriculture as an industry and as part of the 18 19 economy. Governor Tony Evers has consistently supported all 20 levels of agriculture, big, medium and small. We need them all 21 to be successful, all types, all sizes. And through this 22 leadership we've strengthened relationships and increased 23 investments in our agriculture industry. So, that's important 24 as we look forward, no matter where we're from and you've been 25 very patient enduring my Wisconsin fun here and so that's

1 great.

2 But what I would say, again, is no matter where 3 you're from, no matter what part of the industry you're engaged 4 with, how you connect to the people who grow the product, maybe 5 you are somebody who's growing the product, you've got a lot to be proud of. You know, feeding your neighbors, feeding your 6 7 state, feeding the nation, the world, is a really important 8 process and very valuable obviously for those of us who are not with our hands in the soil. So be proud of that. 9 Aqain, share 10 your story, share your experiences with others so they know the value you bring every day. 11

12 I just wanted to close on one thing and it's something that I typically do close with this no matter who I 13 14 talk to and that's the importance of kind of being aware of each other and how we can take care of each other. Even in 15 16 good times, agriculture and food production can be tough. 17 There are a lot of challenges that are around us all. So, changing weather patterns which we continue to see, we have 18 19 challenging markets whether it's local or international, and 20 volatile prices which can have an impact on farmers and people 21 in the industry and that can be a lot. And so, it's important 22 that we are providing resources to farmers to be a partner.

And since the mid-1980s, Wisconsin's Farm Center has been that partner at a time to help farmers out at a time where they are experiencing challenges. They provide a variety of 1 resources: everything from mediation to transition management 2 to consulting with farmers for business plans. But we've added 3 some new programs in the recent years that I tend to end with 4 because I know other states also have similar programs and 5 that's our farmer mental health and farmer wellness programs.

Getting back to the fact, agriculture is a challenge 6 7 even in good times. When you experience all these things 8 together, we want to make sure that people have a resource, that farmers have a resource, some place that they can go. 9 And 10 so if somebody's struggling with hardships, depression, anxiety, we have a 24/7 hotline that's available for farmers to 11 12 We want people to know the resource is available. call. We're not telling them they have to call, but we encourage other 13 14 people to share that number with those who might need it. And 15 I'm going to say it. It's on our website, but for those who 16 are interested, the farmer wellness helpline is (888) 901-2558.

Again, many of your states and the states you come from have similar programs. It's a really important resource that our agency makes available because we want farmers to know that it's okay to make the call and there's somebody there who can be a friendly voice at a time that they might need it.

So, I will end with that and just say once again, thank you for being here. Thanks for everything that you do, wherever you're coming from. And again, because my friends at the Department of Tourism would say this, feel free to spend

1 some money in downtown Milwaukee or wherever else you go. 2 So again, I really appreciate being here with you. 3 I'm going to try and squeeze in the back and listen in for a 4 while because we have the great resource of you all being here, 5 so I'm going to learn a little bit. I'm going to have to take off in a little while, but I do welcome you all here and I hope 6 7 you have a great meeting. Thanks. 8 AGENDA OVERVIEW, NOP INTRODUCTIONS 9 DR. TUCKER: Okay. I have been told I project, so I 10 am not going to be as close to the mic as usual and if you can't hear me, just go like this. Though I guess the chances 11 12 of people not being able to hear me are fairly low from what I understand. 13 Okay. So, now, we're going to continue our opening 14 with my introduction of the National Organic Program team. 15 16 We have several folks with us here today. First, I want to take a little bit of time to thank 17 and acknowledge Michelle Arsenault, our Advisory Board 18 19 Specialist. Okay. So wait until you hear this. This is 20 Michelle's 24th meeting supporting this community, and that's 21 pretty incredible. So, actually, let's do a little bit in the 22 audience. 23 How many of you have been to 24 or more meetings? 24 Wow, okay. So Michelle's got a lot of you beat. So pretty 25 impressive there.

1 So to celebrate two dozen meetings, two dozen 2 meetings, we have 24 Justin Organic Peanut Butter Cups because 3 apparently that's her favorite. So, Michelle. 4 UNIDENTIFIED: No requirement to share. 5 DR. TUCKER: All right. So, thank you and 6 congratulations. Michelle, by the way, was my very first hire 7 when I joined the government. And so, we've been together a 8 long time. So Michelle, thank you for everything. So, okay. We also have a number of other team 9 10 members from Standards. Erin Healy, our Standards Division Director; you're going to be hearing more from her in a bit. 11 12 Jared Clark, where are you, Jared? There you go. Jared is our Acting Assistant Standards Director. 13 We have Andrea Holm who kind of runs the place back 14 So she's making sure all of our online folks are well 15 there. 16 taken care of. And Jo Miranda, where are you, front row? 17 Okay. Jo has been doing a fabulous job. Most recently she updated, was 18 19 the project manager for the NOP Handbook update. So if you saw 20 an Insider on that, Jo was the project manager on that. And then right next to her, we have Heather Kumar who 21 22 is a food technologist supporting the technical assistance needs of the board. And so that's a new position. It's been a 23 24 fabulous six-month learning and growing period there. So 25 Heather, thank you for all your work on that.

1 All of these folks are vital to the board's work in advancing both practice and nationalist standards, so. 2 Also 3 here in Milwaukee we have Penny Zuck, Alexis McInerney, and 4 Rebecca Claypool with the Office of the Deputy Administrator 5 team, and Emily Gantz who is an Accreditation Manager. All of these folks have played a key role in getting ready for the 6 7 meeting and are playing a critical role in managing the 8 Transition to Organic Partnership Program or TOPP, working directly with the regions and our national level 9 10 cooperating groups. So Emily Gantz is the project manager for the Midwest TOPP region that we'll be hearing more from today. 11 All these folks do the hard behind-the-scenes work that goes 12 along with successfully running a \$100 million transition 13 It's an honor to work with all of them. 14 program.

So next I'm going to turn the mic over to Kyla Smith who's our board chair. Congratulations, Kyla. Kyla will be having the board members introduce themselves. All of these folks devote hours and hours of volunteer time to serve the organic community. So let's give the full board a big round of applause, thanks, and appreciation.

21 So Kyla, welcome to your new role as chair. Thank 22 you in advance for a great meeting.

23

NOSB INTRODUCTIONS

CHAIR SMITH: Okay. Good morning everybody. Thanksfor joining us here in the room and out there in Zoomland. We

1 actually have two board members joining us today on Zoom: Amy 2 Bruch and Logan Petrey. They're home, fulfilling their most 3 important roles as moms. And thankfully because we are so tech 4 savvy now on the board, we are able to have them join us 5 remotely.

We will start by having board members introduce themselves. We'll start with Kim and just go around the table to say, you know, your name, seat, location, all, you know, the normal stuff. Go ahead, Kim.

BOARD MEMBER HUSEMAN: Hi, Kimberly Huseman. I sit in a handler's seat. I am what they call a super senior this year in my fifth year on the board. I have -- my background is in poultry feeding and most recently, in organic oil seed crush and oils and protein products.

BOARD MEMBER POWELL-PALM: Good morning, everybody. My name is Nate Powell-Palm. I sit in one of the producer's seats. I'm a grain and beef cattle producer from Montana and I, too, am a super senior. I'm really enjoying my time watching the leadership pipeline develop beautifully. So grateful to be with you all today.

BOARD MEMBER NANDWANI: Good morning. My name is Dilip Nandwani. I have just completed two years on the board. It's a great group. A lot of learning, of course, and I serve on the scientist seat on the board. Thank you. Glad to be here. BOARD MEMBER QUARCOO: My name is Franklin Quarcoo. I serve on the environmental protection and resource conservation seat. I'm an entomologist by training and I work at Tuskegee University. Thank you.

5 SECRETARY LEWIS: I'm Nate Lewis from Olympia, 6 Washington. I work with the Washington Farmland Trust and 7 serve in the resource conservation seat. I also chair the 8 policy development subcommittee and I think that's it. And I'm 9 on the -- and I'm the secretary.

10 BOARD MEMBER JOHNSON: Good morning. I'm Allison I'm in the public interest consumer seat. 11 Johnson. I'm an 12 attorney for the Natural Resources Defense Council and recently moved on to our pollinators and pesticides team, so doing a lot 13 14 of work to reduce neonicotinoid seed treatments primarily. 15 Looking forward to being with you all here and I'm based in Oakland, California. 16

BOARD MEMBER CALDWELL: Good morning, everybody. 17 I'm I'm in a consumer public interest seat on the 18 Brian Caldwell. 19 board in my second to last year. I'm retired from Cornell 20 University where I did research on organic farming. I was 21 lucky to be able to do that there and located in central New 22 York. And I had a small certified organic fruit and nut farm. 23 Usually, I'm so loud. Certified Closer? Okay. 24 organic fruit and nut farm, certified since 1986. 25 BOARD MEMBER D'AMORE: Good morning. Jerry D'Amore

1 from Monterey, California. I am in a handler's seat. I have 2 51 years of active involvement in food production and sales, 3 all of that in specialty crops and all of the production side 4 in hydroponic systems. I've been 15 in -- for 15 of those 5 years, I was active as a resident in the countries of Saudi Arabia, Turkey, Ukraine, Romania, Bulgaria, and Russia. 6 And 7 the last 20 years have been exclusively devoted to the go-to-8 market side of the business. Thank you.

9 BOARD MEMBER DIMITRI: Good morning. I'm Carolyn 10 Dimitri. I also sit in a consumer public interest seat. We're 11 all in this little corner. I'm an applied economist on the 12 faculty of New York University and one of my main research 13 areas is the post-farm issues of the organic sector.

14 BOARD MEMBER TURNER: Hi. I'm Wood Turner, head of 15 impact for agriculture capital and trained as environmental 16 designer and planner. I'm in my last year on the board as We're a large producer of organic blueberries on the 17 well. I'm also anticipating completing transition of my 18 west coast. 19 family's farm to organic in eastern North Carolina this year. 20 Congratulations, Wood. Cool. UNIDENTIFIED:

BOARD MEMBER JEFFERY: Hello, good morning. Mindee Jeffery. I sit in the retailer seat, Mother Earth Natural Foods in northern California and I'm very proud to have been released from 15 years of direct consumer education on organic and now they let me drive the tractor and I make compost. 1 CHAIR SMITH: Amy, can you please introduce yourself?
2 BOARD MEMBER BRUCH: Yeah, absolutely. Can you hear
3 me okay?

CHAIR SMITH: Sure can.

4

5 BOARD MEMBER BRUCH: Okay. Good morning. I'm Amy 6 Bruch, sixth generation farmer. Currently, I reside in a 7 farmer's seat. I also serve as vice chair and chair of the 8 CACS subcommittee. I'm in my fourth year or I guess senior 9 year and I reside in east central Nebraska.

10 I have an ag engineering degree from Iowa State and not 51 years of experience, I heard Jerry say, but about two 11 12 decades of experience working in production ag, agribusiness, and consulting fellow farmers transitioning to organic. 13 Ι 14 lived in Brazil for six years along with my husband. I've worked on many projects internationally in South America, 15 16 Africa, and Europe as well. And with the passing of my father 17 and the desire to keep the family farm in my family, my primary job and favorite job is farmer on my family farms, and we grow 18 19 organic row crops and also small grains and we're 100 percent 20 organic or transition to organic. Thank you. 21 CHAIR SMITH: Thanks, Amy. Logan, can you please introduce yourself? 22 23 BOARD MEMBER PETREY: Hi, can you hear me? 24 CHAIR SMITH: Yep. 25 BOARD MEMBER PETREY: Okay. Great. Hi, I'm Logan

Petrey. I am in the farmer's seat and my experience is in
 organic vegetables, do have some experience in organic grains.
 I'm from the southeast. I'm in my fourth year. Also, this is
 my first year as the crops chair.

5 My son was born last month, so I'm very grateful that 6 I can join virtually. It's good to see you all. Thank you.

7 CHAIR SMITH: Thanks. And my name is Kyla Smith. Ι 8 am the certification policy advisor at PCO. PCO is an accredited certification agency. I've worked in certification 9 10 for over 20 years. I am obviously serving in the certifier I'm in my fourth year as well, and I'm just very humbled 11 seat. to be serving as the chair of this awesome team. And I call 12 13 home, State College, Pennsylvania. I will now turn it over to 14 NOSB secretary, Nate Lewis, to give the secretary's report. SECRETARY'S REPORT 15 16 SECRETARY LEWIS: Thanks, Kyla. Board members were given a copy of the meeting minutes and summary, a draft copy, 17 18 prior to the meeting. Are there any corrections noted that 19 needed to be made? All right. Absence of any corrections, the 20 meeting minutes are accepted. 21 NOSB REPORT 22 Thanks, Nate. I will now give a few CHAIR SMITH: 23 remarks before I turn it back over to Jenny for the NOP update.

In reflecting about what I wanted to talk about this morning, I realize I'm having a bit of a full-circle moment here at this spring meeting. I attended my first NOSB meeting in Madison, Wisconsin in the fall of 2010. I remember so many great things about that meeting, although it did start off a bit rough as I was told on the plane coming to the meeting by my supervisor that she had signed me up to give an oral public comment. To say I was terrified is an understatement.

However, I also remember being supported by a group of organic rockstar certification women that coached me through the process. There were songs during public comment, friendly amendments, shouts of joy from the audience when certain votes were taking place. It was awesome.

12 During that meeting, it became clear to me that I wanted to be on that board when I grew up one day. 13 I enjoyed 14 the debate and getting to -- and knowing that, albeit a slow 15 process, that this was how to affect change in organic 16 regulations and have an impact on the organic industry as a So, I return here to Wisconsin, now serving as chair of 17 whole. the NOSB, and I'm so honored to represent my fellow certifiers 18 19 in this way.

As I said, I've worked my entire 20-plus year career in the organic industry at PCO. PCO is a non-profit with a board, so I have quite a bit of experience with boards in that context. Over the years, I participated in multiple board trainings. One of the most important things that I've picked up on is the idea about having healthy and respectful debate, but once the vote is taken, that the board speak in one voice about the decision, whether that was the outcome that an individual member wanted or not. This is to ensure a successful and healthy organization for the long term.

5 Now, I know that this is slightly different than a non-profit board, but in this area, I think the same idea holds 6 7 Obviously, we are debating in the public eye versus true. 8 behind closed doors, so the public hears the minority view and knows how we all vote, and it can be easy to complain or air 9 10 one's grievances. However, in the long run, in my experience, it is harmful to the organization. 11 So, I encourage us all to 12 speak together after votes are cast, to successfully implement the actions of this board. I say this because we have some 13 14 items coming on our work agenda where I guarantee we are not all going to agree. And, for this iteration of the board, this 15 16 is a little new. Most of the votes that we've taken have been unanimous or pretty unanimous. 17

18 We've proven over the years as a community that when 19 we pull together, we have a much greater impact to get rules 20 across the finish line. Organic livestock, organic livestock 21 and poultry standards and strengthening organic enforcement 22 final rules are all examples of the board and, quite frankly, the entire community rowing together. It doesn't go unnoticed 23 24 by the NOP or the greater USDA. In my experience, when we are divided and are asking for different things, the opposite is 25

1 true. USDA doesn't take us seriously, and their attention
2 shifts elsewhere.

Now, don't get me wrong. I'm not saying that once a vote is taken that we can never revisit a topic. We certainly can, and we do. New information presents itself all the time, and we need to reassess policies that are no longer working upon receipt of this new information. But, in the moment, in my experience, more harm than good happens when boards don't rally together around the action or idea that passed the vote.

10 I'm going to do like an awkward transition here because I couldn't think of a smooth one, and I'm just going to 11 12 talk about the current rulemaking efforts, so, sorry. Anyway, I wanted to take a moment just to acknowledge the incredible 13 14 work that has happened over the past year with the ongoing --15 and the ongoing work by all of us in this room to implement 16 three rules simultaneously. Like, three big rules, not just I don't think in the history of the 17 National List rules. 18 Organic Program, that has ever happened.

19 We are making history here, folks, and it is no small 20 We are all holding a lot right now, and while there is feat. plenty to celebrate, I also hope that we don't get into the 21 22 habit of doing this all the time. It can -- and that we can 23 somehow get to a more steady state of rulemaking versus, you 24 know, nothing for ten years, and then three rules, bang, bang, 25 I know that that is sometimes -- a bit outside of any of banq.

our control, really, and if progress can be made to pace things out a bit more, I know the certification community would be eternally grateful.

With the rules in various stages of implementation and enforcement, we are doing some things well. I'm sure we're making mistakes, and we are learning a lot. Jenny always says, success brings new problems or questions, and so, in the success of implementing these rules, we now have a bunch of new things to figure out.

I encourage us all to stay curious and get creative as we are moving into the enforcement phase of these rulemaking efforts. It might be tempting to jump to the next thing, and it is important to stay engaged through this part of the rulemaking process to ensure consistency. I look forward to hearing more from the program during their update on early wins and next steps.

Lastly, I wanted to call your attention to the NOSB call for nominations that is hitting the Federal Register today, I believe. We are seeking to fill the seats that will be vacated by Nate Powell-Palm, Mindee Jeffery, Kim Huseman, Jerry D'Amore, and Wood Turner. The seat designations are one farmer, one retailer, two handlers, and one environmental resource conservation person.

24 Please consider joining our crew. I'm not going to
25 lie, it is a lot of work, and it is so very rewarding. We are

also about to go into this time of like super quick turnover on the board, and so, I encourage those that are seeking to apply to like just get in the mindset of being a quick study. That said, there will -- there is always a lot of support from fellow board members and the program.

Again, I'm not trying to dissuade anybody from this awesome role. I'm just trying to present a realistic picture so you know what you're signing up for. Please come talk to us about what our experiences are and what the time commitment looks like or reach out to Michelle. I'm sure any of us would be more than willing to, yeah, talk about it.

Okay. To wrap it up, I just wanted to acknowledge that this afternoon we are going to be returning to in-person comments for the first time since the pandemic. None of the current board members have ever done this before and the logistics are a bit different with live streaming and board members on Zoom, so please bear with us and give us grace as humans, as I'm sure there will be stumbles along the way.

I look forward to spending the next few days with you all and to a successful meeting. Before I turn it back over to Deputy Administrator Tucker for the NLP update, I will hand it over to NOSB Vice-Chair Amy Bruch to make a few remarks.

VICE-CHAIR REMARKS

VICE-CHAIR BRUCH: Thank you, Kyla. Welcome, fellow
 board members, NLP leadership and staff, members of the organic

23

community, and all others, to the Midwest. Before I begin, I want to take a moment and acknowledge those impacted by the nearly 130 devastating tornadoes that hit over the weekend in the heartland. My heart goes out to those whose lives changed in seconds.

Although I miss seeing you all in person, I'm so
grateful to have the opportunity to attend this event
virtually. As Kyla mentioned, four weeks ago, I welcomed a
beautiful baby boy into my life, and I'm cherishing every
moment with my growing family.

I was deeply moved by the most recent round of public comments. Your voices as stakeholders have made a significant impact. We hear you and are committed to progressing on the issues within our oversight, impacting our community. For the challenges that fall outside the board's scope of work, I encourage the leaders of various organic organizations to take up the cause.

I strongly urge support in filling the Organic Policy 18 19 Advisor position, which acts as a liaison between our organic 20 community and the U.S. Secretary of Aq. This essential 21 position must be filled and will keep -- will help keep organic 22 at the forefront of advancement. Having a diverse range of 23 perspectives is not just important, but essential, as we work 24 towards solutions to accomplish our common goals. Your unique 25 viewpoints and experiences enrich our discussions and help us

1 to find more comprehensive solutions.

2 Organic farming is not just a production methodology, 3 it's a way of life, a livelihood, an answer, and a choice for 4 many people. As Mindee Jeffery, a fellow board member, so 5 eloquently states, the National Organic Program demonstrates 6 democracy at its finest. Thank you for your attention and 7 commitment to organics, and I look forward to a productive next 8 three days. So grateful to serve with all of you. Thank you. 9 And, with that, I'm going to pass it back to Dr. Jenny Tucker. 10 USDA/AMS/NATIONAL ORGANIC PROGRAM UPDATE, AND NOP-NOSB Q&A

Okay, everyone. We're going to do the 11 DR. TUCKER: 12 NOP update a little bit differently this time. I'm going to be introducing Erin Healy in a couple of minutes here. 13 She's our 14 Standards Director, and she's going to give an overview of the Retailer Toolkit. And so there are items out in the hall for 15 16 folks who want to take a look at the touch and feel of the toolkit. 17

I wanted to kind of connect the dots back to feedback 18 19 from this community over the past several meetings about this 20 ongoing need to educate people about what organic is and what 21 it means. And I think this team has done a really nice job of 22 capturing the essence from the NOP's perspective on the key 23 elements that we want retailers and consumers to really 24 understand about organic. There are a lot of folks who are 25 working on these types of projects to educate consumers about

1 organic, and I think this package is a nice addition to that. 2 So I wanted to take the opportunity to thank Erin and 3 This is something we've wanted to do for a long her team. 4 time, and the timing was finally right to do it, to get the 5 word out about SOE, the power of SOE, and its potential that I don't think we have fully quite realized yet. And so I want to 6 7 thank Erin. Right time, right place, right message. 8 An amazing team. You pulled together a beautiful 9 team, lots of good project management, and got this out the 10 So, congratulations, and thank you for all the work. door. This is also the team that has been churning out all 11 12 of these roles. So the standards group is really just a remarkable set of very, very talented folks, led by a very 13 talented director. So Erin, thank you very, very much. 14 Take the floor, and then we will do Q&A with the board, and then 15 16 I'll give a separate update primarily about SOE. 17 NOP UPDATE 18 MS. HEALY: Thank you. Good morning, everyone. Can 19 you hear me okay? And I do see people standing in the back, so 20 in case you're just being polite, please do feel free to go grab a seat. You're not disrupting anything, so I just wanted 21 22 to give you the permission to do that in case you're feeling 23 like you didn't want to disrupt anything. 24 So, let me see, my slides. Point it towards you 25 guys, or okay. So the label landscape has become really

1 confusing for consumers. Even myself, I work in this industry, 2 and when I go to the grocery store, I feel overwhelmed by the 3 amount of labels that are presented to me. So you can imagine 4 for somebody that doesn't work in this industry, how confusing 5 it must be to try to understand what all of these different 6 labels mean, and what's behind each of these labels.

So there is -- there's a lot of consumer confusion.
There's distrust among consumers. They don't know which label
to trust, or how to trust. So we've -- we looked into a lot of
consumer research, specifically around organic perspectives and
the organic label.

12 And I do want to give a shout-out to a few people that are here today, that were on this very small, but mighty, 13 team that we assembled. So Jo Miranda, in her tiny little bit 14 15 of free time from doing rules and the handbook update, was also 16 involved in this project. And Alexis McInerney, who is also 17 here today. And Sonya Backus, who's not here today, but is part of the NOP team. So we were only four people doing this 18 19 in our little bit of free time, and so I just want to give them 20 a shout-out to all the hard work that they put into this.

So, you probably cannot see this slide. I think only the people online can see this. But we did work with Consumer Reports, and we were lucky enough that they actually did a phone survey for us among 2,000 people, to ask about the organic label, to get a sense of what people already understand, and what questions they have about the organic label. It turns out that only 55 percent of respondents knew that organic food is produced without chemical fertilizers or pesticides, and only 40 percent knew that organic operations were inspected regularly. Only 34 percent knew that organic animals may not receive growth hormones.

7 The same Consumer Reports survey indicated that 29 8 percent of the respondents answered that they trusted the organic label either a lot or completely. Since then, OTA has 9 10 come out with another Consumer Attitudes report, or Attitudes and Survey Report, and some of these numbers are higher, which 11 12 was -- I was very happy to see. But it's -- it does show that there's still a lot of room, I mean, a lot of room for 13 improvement and a lot of work that we have to do to educate 14 15 consumers about what this means and why our organic label is so 16 special and so important.

17 Again, you probably won't be able to see this slide, but these are the questions that the respondents from the 18 19 Consumer Reports survey had about the organic label. And a lot 20 of them were asking, almost 50 percent, were asking, who is 21 responsible for making sure that the organic seal on foods are 22 truly organic? So almost 50 percent didn't even know that it 23 was a government-backed label, which I thought was really 24 interesting.

25

As I mentioned, the OTA has done a most recent report

this year. They released the findings of their most recent
 Consumer Attitudes and Beliefs Survey. I was happy to see that
 the results were better than the Consumer Report was.

4 In the OTA survey, 70 percent of respondents 5 understood that products are produced without synthetic chemicals and do not contain antibiotics or hormones. 6 However, 7 only 60 percent knew that organic prohibits GMOs and less than 8 50 percent knew that organic animals have access to the The organic label had fairly good visibility among 9 outdoors. 10 these respondents, but less than 40 percent of shoppers say they highly trusted the organic label. 11 So they may have said 12 they trusted it, but it was lower for saying that they highly 13 trusted us.

Now, we know how great the label is, so I wanted to 14 15 make sure that we were sharing this information with consumers. 16 We've heard through multiple meetings at this point from all of you and the stakeholders that there is a need to educate 17 consumers about what the organic label means and what's behind 18 19 the label. So we wanted to make sure what we did -- we put 20 together this toolkit, and this toolkit is ultimately for 21 retailers, that's our audience. The end audience is consumers. 22 So if you are working with any retailers or organic 23 brands, I'll talk a little bit more about how you can help us

24 promote this toolkit, but I first want to walk through what the 25 toolkit is, what it contains, and you'll see some of these pieces are displayed out on the table outside as well. So the toolkit is a variety of graphics that can be printed and used in stores as signs, or they can be used online or in social media as well. So that's why I said they could be used by either retailers or brands, because brands could help by maybe putting it on some of their packaging, or using it in their social media, or on their website to educate consumers.

8 All of these materials focus on the four pillars of This is the main part of our messaging, that the 9 organic. 10 organic label includes four main pillars. The first is protected by law. The second is inspected by experts. 11 The 12 third is traced from farm to store, and the fourth is shaped by public input. And I'll go into more depth on each of these 13 14 pillars in a minute.

15 So protected by law; we're the only government-backed 16 label on the shelves. It refers to the fact that our label is backed by federal regulations, and we also have the authority 17 to enforce those regulations. So we can levy fines and 18 19 penalties, and we can even put people in jail if they break the 20 law, and they don't -- they use the organic seal without 21 following our guidelines. Our seal is now trademarked, so we 22 have increased authority to take enforcement action if anyone 23 is fraudulently using the seal.

The second pillar inspected by experts; this refers to the inspectors that go out to the farm at least yearly and actually inspect the organic operations. It also infers the
 unannounced inspections and the testing that happens.

We used experts because we were trying to use plain 3 4 language. We did not want to say certifiers or auditors 5 because we wanted to make sure that the regular consumer 6 understood what we were talking about, and we were focusing 7 really high-level, big picture, on what this meant. So we 8 didn't want to use words that maybe only us in this community 9 were familiar with, but the regular consumer may not be 10 familiar with.

11 The third is really referring to the most recent 12 Strengthening Organic Enforcement regulation, which gives us 13 the authority to audit the entire organic supply chain at this 14 point. So that's why we say traced from farm to store. And it 15 gives us the authority to deter and detect fraud via the 16 certifiers.

And then finally, shaped by public input, we wanted to talk about our public-private partnerships. So this meeting is an example of that. Twice a year, we hold a public meeting, and anyone from the public can make a public comment, either verbally or in writing.

In addition to that, when we write our proposed regulations, anyone can make a comment, and that really does shape our final regulations. We read through every single comment. We have multiple people that analyze those comments and consider them and talk at length, internally, about how to incorporate that into a final rule.

And here are just some examples that I'll run 3 These are all on the table outside, if you'd like to 4 through. 5 They all have a QR code that goes back to our take one. 6 consumer-facing website that explains in a little bit more 7 detail what each of these four pillars means. And it has a lot 8 of hyperlinks for the people that want to go down that rabbit 9 hole and find out everything there is to know about the organic 10 program.

So this is a freezer cling that can go on a fridge or 11 12 freezer door. These are aisle banners. You can see on the right the picture of how it would pop out from a shelf in a 13 14 grocery store. You can see we have a lot of different pictures 15 to really showcase the diversity of the organic producers and 16 the different consumers that come to stores and may want to look for organic produce and products in different parts of the 17 This is a banner that could be hung from a ceiling, 18 country. 19 for instance, above a -- an organic produce stand. And these 20 are the different shelf tags that could be used in different 21 parts of the store to highlight specific types of food.

We used the rule of three here because we didn't think anyone was going to remember more than three bullet points. And we wanted to make sure, again, we were using plain language and keeping it really big picture, high level, and not 1 getting too technical. So these are not going to be perfect. 2 I have heard, you know, oh, but this word and that word and 3 saying it like that. And I understand. And we will never be 4 able to get fully to the level of perfection with some of these 5 words but we wanted to stay true to our regulations and our 6 statute and also, most importantly, be understood by the 7 regular consumer. This is what could be used online and in 8 social media.

So here's how you can help us. We need brand 9 10 So, you are all brand ambassadors in this room ambassadors. and we need you to speak very highly and positively about the 11 12 organic label. As I mentioned, if you work with organic brands or you work with retailers at all, please tell them about this 13 retailer toolkit. It's downloadable from our website. You can 14 15 use the QR code from -- you can click it right here or from 16 any of the materials that are on the table. Please send that to the people you're working with. Let them know that you want 17 to see this in stores and you think it will help organic 18 19 products earn more money. It'll help more organic producers 20 earn more money if people understood what the organic label 21 means and what was behind the label. Thank you. That's all I 22 have.

23 CHAIR SMITH: Thanks so much, Erin. Questions for24 Erin? I see Jerry. Please go ahead.

25

Burke Court Reporting & Transcription (973) 692-0660

1 Q & A
2 BOARD MEMBER D'AMORE: Erin, good work. Thank you.
3 Very timely, very necessary.

4 The document that you refer to, USDA Organic as 5 administered or sponsored by the OTA, it really is an 6 extraordinary document. I've been around a long time and my 7 seven years of running Driscoll Sales and Marketing, I've never 8 seen anything that quite was as heavily not stacked, but as heavily persuasive. Ninety percent of consumers say they're 9 10 familiar with the USDA Organic seal. A full 70 of the consumers say that they feel it is trustworthy. And I find 11 12 that to be also, I mean, these numbers, if you're in the game 13 at all, are extraordinary numbers.

And one of my pet peeves, if I could have two seconds 14 15 to be on a soap box, is I don't know why everybody in this room 16 didn't go out and take the day off and do a victory lap when I'm really serious. I think that one of our 17 that came out. biggest problems as the organic group is that we don't talk a 18 19 common language and we don't celebrate the same victories. And 20 this is one we should all be celebrating. Thank you.

MS. HEALY: Thank you very much. And do keep in mind that the stores may use this differently. They may insert their own branding or their own pictures and we're okay with that. So, you may see this in different -- in slightly different varieties or colors or whatever at the store. What we want to really hold on to, like you said, Jerry, is that messaging. We want consumers to keep hearing that -- about the four pillars and we want that QR code to be sending consumers to our consumer website. So that repetition is what's going to help them recognize the organic brand.

6

CHAIR SMITH: Nate, please go ahead.

7 BOARD MEMBER LEWIS: When we encourage farmers to 8 participate in this process, oftentimes we're saying, you might 9 not see it, but your voice does matter. In the spring of '22, 10 we started hearing more and more from producers saying we need to brag a little. We need to think about this. And I think 11 that this was one of the most satisfying opportunities to see 12 the community ask, and the program deliver, in such rapid 13 14 succession that by the time this public comment came around, we had farmers who were saying, thank you. We see this. 15

And I just want to say thank you, Jenny, and thank you, Erin, for hearing the community and delivering so magnificently. So, thank you again.

19 CHAIR SMITH: I just wanted to say, too, it 20 totally -- it landed differently for me to actually, like the 21 message, like I saw the content previously, but then to like 22 touch and like pick the things up, like, on the table, I was 23 like, man, this is great. So anyway, yeah. Excellent job. 24 I think it's your turn, Dr. Tucker. Oh, sorry. 25 BOARD MEMBER D'AMORE: That's all right. For another 1 moment, I would really like to get into the details of how we 2 collectively look at that label, that seal, that piece of 3 paper, along with 20 other pieces of paper that can be on the 4 same clamshell. There's a lot of information in that, too. 5 Thank you.

6 CHAIR SMITH: I think it's your turn, Jenny. Oh,7 Jesus. I'm sorry. Wood, please go ahead.

8 BOARD MEMBER TURNER: You're leaving me out. That's9 all right.

10 So just drafting -- Erin, this is great. Just 11 drafting off what Jerry was saying about just the success of 12 some of the numbers that we've seen, what do you think of as 13 success for this program? Like what does success look like, 14 and how are you, how is the program going to measure this over 15 time in terms of, is it retailer adoption, is it -- just talk 16 about that if you don't mind.

MS. HEALY: Yeah, that's a great question. I would be elated if I saw this in a store one day. I will, well, it starts somewhere, but I will give you an update. So MOM's has already told us they want to pilot test this in their stores, so we've already gotten the confirmed yes from MOM's.

I've been having a lot of conversations with Target, Walmart, Sprouts, trying to think of who else. There are a few others that I can't remember right now. And they are interested, and they're talking about it internally. So, yes, we want to definitely keep track of how many stores, how many companies, and how many of those stores within those companies are using this. We've also been tracking just online on the consumer-facing website how many hits we're getting, how many people are downloading the toolkit. So we run a monthly report on that.

7 But I think the most important is getting it into 8 stores and making sure that they're continuing to use it. 9 Right? We don't want it to just be a pilot test. We want them 10 to continuously use it over time.

I was in Whole Foods the other day and saw that they 11 12 had these TVs hanging down and they were projecting images and messaging, and I was thinking, right there is a perfect 13 opportunity. So we have been talking with Whole Foods as well. 14 15 But again, I'm one person making these calls, so we -- I 16 desperately need everybody's help. If you have contacts in the retailer world, in the organic brand world, please connect me 17 to them and please also let them know that you want to see 18 19 these in their stores.

CHAIR SMITH: Amy, please go ahead.

20

VICE-CHAIR BRUCH: Yeah, thanks, Kyla. I just want to say thank you for working on this. This is incredible. We have such a good story to tell. The organic program fires on many different cylinders and to create a very succinct, digestible message was really key and you delivered on that. 1 So thank you. I just -- we'll do whatever we can to get this 2 message lifted off the ground and thank you so much for making 3 this happen. 4 CHAIR SMITH: And I should mention both Amy and Logan 5 are using the branding right now with their Zoom backgrounds. So thanks for using those. 6 7 I think it's now your turn.

8

NATIONAL ORGANIC PROGRAM UPDATE

Is it a different slide deck or I 9 DR. TUCKER: Okav. 10 just keep going here? Oh? Just keep going and I need to point it the other direction. Ah, okay. All right. 11

12 And just to check in, we're actually doing really This is actually the point where we were 13 well on time. 14 scheduled to start the update. So that means we still have 15 plenty of time for this presentation and I'm sure there won't 16 be any questions.

So this is the National Organic Program update 17 Okay. for the National Organic Standards Board and our beloved 18 19 audience, Part 2. And so, first, I want to welcome our organic 20 farms and businesses. There are 1,667 certified organic 21 businesses in Wisconsin as of last Friday. Raise your hand if 22 you are a certified farmer business in the audience.

23 All right. Okay. I think I was actually not 24 surprised by this number, that I've always known Wisconsin had 25 an awful lot of organic farms and businesses. And as I was

typing the number into the screen, it just reminded me of just the enormous responsibility that this board has. That this board is representing not only the organic farms and businesses in the room but also the 1,600 in Wisconsin and the 45,000 certified businesses around the world. And that's really a tremendous responsibility. So, Board, thank you.

7 For those who are wondering about Part 2 and Okav. 8 what happened to Part 1, Part 1 is online. And so if you go 9 into the Organic Integrity Learning Center, there's actually a 10 pretty long and robust update about all the different things that we are doing across the program. So inside of the one out 11 12 early last week has a direct link to that presentation so if you weren't able to watch it before you came here, I do 13 encourage you to take a look if you're interested in knowing 14 This was a 15 sort of everything going on across the program. 16 practice we started during the pandemic and we decided to keep it because it does save time here to really highlight the 17 things that we actually believe the Board are going to have a 18 19 lot of questions on and we want to make sure we're 20 communicating in real time so it allows for more time for 21 questions and answers.

22 So the topics I'm going to be covering today are 23 Strengthening Organic Enforcement update and that's going to be 24 about 80 percent of the presentation. I will briefly review 25 the call for nominations. I promise that when I put together these slides we didn't know it was going to publish today so for everyone who thought that we, wow, that was impressive how we designed that, we didn't. We are at the mercy of the clearance process and the Federal Register, and the fact that it happened to publish today, we will take no credit for. I'll give a quick update on TOPP, the transitional production plan, and I'm going to close actually with an award.

8 Okay. Sorry. Okay, let's start with strengthening
9 organic enforcement. First, we did it. Thank you everybody.
10 This was a long time coming.

So, instead of using present tense -- future tense on 11 12 this screen, I can use present tense. We are increasing. We have increased the number of certified entities to fill gaps. 13 We are requiring the use of electronic import certificates. 14 We 15 have strengthened record keeping and supply chain traceability 16 and we have strengthened our oversight of accredited certifiers. 17 So those were always the four pillars of SOE. Ιt is now real. It is absolutely being implemented. 18

So, I have introduced this slide recently because we really are expanding the organic community and sector to include an awful lot of businesses that are pretty new to all of this. And so, I think like with the retailer toolkit, using language that can help connect people to what we do, we've started to talk about -- be more clear in talking about certificates. So we take for granted what certificate means, but sometimes even we get confused. Are we talking about operations certificates or are we talking about import certificates? Because there are two kinds of certificates now. And so, I do want to just review the language that we're talking about: operation level certificates, which really asks the question, are you certified organic? So you're licensed to sell organic. It's an operation registry.

8 There's also the electronic import certificate which 9 apparently has a new acronym that I didn't develop. I got this 10 document that said E-N-O-P-I-C and I said, what the heck is an 11 E-N-O-P-I-C? So then I figured out that that was the import 12 certificate.

And so, the electronic import certificate is officially a three-step acronym. E-N-O-P-I-C. ENOPIC. ENOPIC, there you go. It has -- and so that question is has a certifier authorized this export to the U.S. as organic? And so this is really the import protection side. And this is a huge part of strengthening organic enforcement.

So we always talked about increasing the number of certified operations, filling gaps, and the import certificates as the absolute top elements of strengthening organic enforcement. And that's the case, but it does also require that we all kind of pause and remember we're dealing now with two levels of certificates. And there's a lot of implications for how all this works. 1 Okay. I want to review where we are with this import 2 certificate. So, first, I'm going to actually start on the 3 left side. U.S. importers must be certified organic and they 4 must be overseen by a certifier to ensure that they are doing 5 all the things that the rule tells them to do. This is an area where we've gotten actually a lot of pushback of, well, why 6 7 should I have to be certified as an importer if all I am 8 dealing with is packaged products?

9 So we have gotten, for example, I'm going to give a 10 real life example where actually we're also already seeing 11 impacts of this rule. Because of -- so for people are 12 wondering when are we going to see stuff? We're seeing stuff 13 now.

So I'm going to use the wine industry. 14 Okay. So, we've gotten a whole lot of direct emails from wine importers. 15 16 And so there are specialty wine importers bringing in wine from And they all want, well, why do I need to be 17 the EU. certified? All I'm doing is bringing in sealed wine packages 18 19 and then I'm sending them off. But why do I have to be 20 certified?

They need to be certified because it's really important that importers help make sure these products are compliant. So, within literally a week and a half of the rule being published, we started to discover that there are wines being brought into the United States from the EU with added sulfites, which is not allowed under the equivalence arrangement. So, under our equivalence arrangement with the EU, not allowed to have added sulfites. The EU allows sulfites and there's been, I think, a bit of a disconnect there where you're seeing wine with added sulfites coming into the United States.

7 Now under SOE, the importer is responsible for 8 checking that. So the importer needs to understand the 9 equivalence arrangement and how it impacts them. They are our 10 check to make sure a product coming in is compliant with the trade arrangement. So, if you are a certifier overseeing that 11 12 importer, you're making sure that their OSP, their organic system plan or handling plan, captures that check. Okay? 13 That's a first line of defense. 14

One of the things we've really learned over the past several months is how customs and border protection kind of use importers. We spend a lot of time thinking about the right side of this chart, the exporters, because that's where, you know, if we can stop bad stuff there, then that's great.

20 Customs has really opened our eyes to the fact, you 21 know, that importers are really where they start with 22 everything. That it's really the importer that is absolutely 23 accountable for that product coming in. Ultimately, the 24 importer is responsible for the organic integrity of anything 25 that enters the country. So, having importers getting certified is part of in the public-private partnership, we absolutely need those importers certified regardless of packaging. And that's been a huge impact emphasis for us in starting this rule.

5 There's no way we can go after every box of wine 6 coming into the country. But when we have that effort 7 distributed across all the certifiers who are certifying all 8 these wine importers, this is also something that when we're 9 rejiggering our conversations with the EU, we're putting closer 10 to the top of the list. That hey, we've detected this problem. We've detected this problem very quickly and it's something 11 12 that we need also the EU to be working on, on their side to not be sending this product over. So, that's a real-time impact of 13 14 SOE that happened within, you know, the first couple of weeks. 15 Okay?

On the right side, exporters and handlers must be certified. You have to be certified to get the electronic import certificate. In fact, early on there was some scrambling and we have certainly heard from customs brokers who have denied entry, have denied entry of product because there was no evidence that the product was organic. We're three weeks in and that's already happened.

23 So, exporters handlers must be certified. They must 24 have an electronic import certificate that is issued by the 25 certifier over that exporter and handler. Now, remember, one of the complexities we're dealing with here is this is not just USDA certifiers. It's also certifiers under our trade arrangements. So EU, Canada, right now are the ones that are sending the most product to us. I'm going to go through those numbers in a couple of minutes here.

6 But I want us to kind of keep the landscape of how 7 all of this works. I think strengthening organic enforcement 8 has a tremendous amount of potential. And I think we're 9 already exercising that potential. So I recognize that at a 10 meeting like this, we're going to all be, well what about this? 11 And what about that? And all the things that we're concerned 12 that it does not do.

I am convinced, a month into this, this is a strong rule and it gives us a lot of tools. And I don't think we guite know the magnitude of the positive impact that this rule is going to have quite yet. So let's -- we have some immediate wins. A lot of the wins are going to be longer term but we're already seeing wins.

19 So here's where our focus is. We're continuing 20 outreach to trade. We continue to get requests for webinars 21 from different specialty groups, different associations. We 22 are doing rapid responses based on import data. I'm going to get to that in a couple minutes. We have sent an information 23 24 request to all of our certifiers on how they're implementing 25 That's due mid-May. SOE.

1 We're also fielding a lot of new policy questions and 2 Top one has been impact on small farms. feedback. 3 Strengthening organic enforcement is not supposed to overburden 4 domestic small farmers. And so we have been having a lot of 5 conversations with certifiers on how to manage in a sound and 6 sensible way. How to manage in a sound and sensible way that 7 we're not overburdening small farmers. This rule is supposed 8 to help, not hurt.

We are also getting a lot of policy questions from 9 10 high-volume retail distribution centers, logistic warehouses, and importers and brokers. Again, these are business types 11 12 that are pretty new to this. And that means it's also new for some of our -- many of our certifiers. You know, these folks 13 14 are working high volume; lots and lots of suppliers, lots and 15 lots of buyers, and we are finding that those take different 16 approaches. And so, we are learning a whole lot about a whole 17 lot of new businesses that have not really been part of organic certification before. 18

19 Okay. So here are some numbers early on in. So --20 and if you did watch the online version, you'll see these 21 numbers have changed since we recorded the online version 22 because things are moving quickly. At this point, the NOP has sent more than 700 letters to uncertified operations. 23 So that 24 was -- so these are primarily importers that are not yet 25 certified but are bringing a product into the country. That's

1 since the rule went into full compliance mode on the 19th of 2 March, so in about five weeks, we sent 700 letters to importers 3 that need to get themselves certified. To me, that is the 4 absolute critical path there. Once those folks are in the 5 certification fold, they will be part of the protection 6 mechanism to ensure that products coming in truly are authentic 7 and to make sure they can -- that they have NOP import 8 certificates. Because we are seeing -- we'll see this in a 9 minute, that there are imports coming in that do not yet have 10 import certificates. We really need all the importers to get certified to help us stop that from happening. 11 So we can do a 12 lot of work at the program level, but in the distributive public-private partnership, we really need everybody on, I've 13 14 been doing this now for a year and a half, the handshake across 15 the border, we really need everybody to be certified.

16 It is working. So, while there might be people who are concerned about the fact that there are 700 who are not yet 17 certified, and I agree with you, we've also made a whole lot of 18 19 There are almost a thousand. My team told me that progress. 20 as of the time I'm giving this presentation, it's likely to be 21 a thousand U.S. handling operations certified between January 22 and April this year. That is comparing year to year, a three-23 and-a-half fold increase year to year. And so we do see a lot 24 of folks who have got into certification, have completed it as 25 of last week.

1 Of the 989, 640 were certified in March and April. 2 So, you know, we did have a bit of, I had people say a year 3 ago, you know, people are going to wait until the last minute. 4 We have had a little bit of that. We have seen a bit of a 5 grieving process over the last year where people needed to kind of argue about oh, I don't really need to be certified. 6 Oh, I 7 really need to be certified? Well, what if I'm only doing 8 this? So the bargaining phase and just moving through the They finally got to acceptance and haven't 9 grieving process. 10 quite gotten certified by the end of the acceptance phase, but we've moved them with that grieving process and here we are. 11

12 There are about 1800 new handling operations So that includes the U.S. handling operations, but 13 worldwide. that also means that some of those uncertified handlers, those 14 15 exporters, that we really needed to get certified in order 16 to -- in order for them to get NOP import certificates, we have learned there have been an awful lot of aggregators out there 17 who have not been certified and that makes traceability outside 18 19 the United States very, very difficult. So we are filling a 20 lot of gaps here. So there are still lots of uncertified 21 importers, but we're making good progress.

Now the question is, well, how long is it going to take for these 700 to get certified? And it turns out a lot of them really are in progress. So when my team sends out the letters, they often will get emails back saying, I'm working on 1 it. Here's the certifier I'm with.

2 We have had some folks who are still stuck in denial 3 of, well, I don't really think I should be certified, even 4 though I'm importing. We have an escalation process to follow up with those. 5 So the team has a process for tracking all of these to determine kind of what the escalation phase will be to 6 7 make sure that these folks either finish certification, start 8 immediately, or get out of the market. Get out of the market. 9 Right now, it's looking like the backlog, because of complexity 10 and backlog, we've got about a two to six-month timeline right now for certifications. 11

Okay. Now, let's turn to the import certificate. We are still refining our metrics tracking. The amount of data that we're getting is enormous. And so we really are trying to get our arms around what does it mean, what do we do with it, and how do we present it in a useful and meaningful way.

We have never had access to the kind of information 17 we have access to now. And we can talk about what the real 18 19 time -- it's not just about the process, it's not just about 20 the data. We have already stopped non-compliant products from 21 entering the United States, based on this work. So I'm 22 presenting numbers, but it's really about stopping bad guys 23 from sending stuff here. And we get that. Right? We get 24 It is very hard sometimes to communicate the presence of that. 25 Right? The lack of fraudulent product coming to the absence.

1 United States.

2 So far, out of the Organic Integrity Database, there 3 have been about 21,450-ish total import certificates. So 4 that's generated out of our system. That's where the 5 certificates are born. Of those, about -- almost 12,000 are 6 active. So that means that they are in process, meaning they 7 are either in the range of time allowed for it. Actually, 8 that's primarily what it means.

There have been some certificates where the certifier 9 10 screwed up and marked it as invalid, so it's an invalid certificate. Or the certificate has, frankly, been used. 11 And 12 so we've had 5,300 import certificates actually entered into Customs and Border Protection, the ACE system. So certificate 13 numbers originally issued out of the Organic Integrity 14 That's by the certifier of the exporter to the 15 Database. 16 United States. That package is provided to the importer. Ιt 17 is then the broker that enters it into the customs system. So that's happened about 5,300 times at this point in the game. 18 19 Okay.

Again, some of how we proceed with enforcement and oversight depends a little bit on what the volume is. Right? We're going to have to make sound and sensible choices about how all of this plays out. We have to have a sense of what we're looking at here. We've never had this kind of data to understand what's actually coming in.

1 At this point, approximately -- more than 70 percent 2 of import certificates appear valid, meaning that the number 3 that went into the Customs and Border Protection system, the 4 number of those that matched the number generated from the 5 Organic Integrity Database is over 70 percent. Okay. 6 Honestly, with something this big, I'm going to take that as a 7 win because this data right now also only reflects electronic 8 import certificates. So it does not reflect import certificates that may still be paper-based because a certifier 9 10 hasn't quite gotten like, in a trade partner country, let's say there's a certifier in Italy that hasn't quite gotten its 11 12 operations added but those wine producers still really want to send wine over here. They may still be using paper 13 14 certificates until the trade partners fully get into the 15 system. That's just an example of why something might be in 16 that 30 percent. So it's not that it's an invalid product. Ιt means it doesn't have a valid import certificate right now. 17

We're only five weeks into it. I'm going to take the 70 percent as a win right now. Okay? That number is also going to continue to go up over time. We'll show you trends in a second.

About 63 percent of import certificates at this time have been issued by USDA certifiers. The rest have been issued primarily under the EU, Canada, and just a couple from Japan at this point. So the current data in CBP, the ACE system, that 1 5300, reflects mainly land-based imports. So, for example, 2 that 11,000 that are active, those might be, I know there's a 3 whole lot of interest in imports of feed for example. Well, 4 that takes longer to get here. So it could be that many of 5 those active certificates are on -- are for a product that has left the country but is sitting on a ship somewhere between 6 7 there and here. It has not hit the entry system yet. So, 8 there's a bit of a lag time here.

So, the initial data we're looking at starts with 9 10 land-based imports but will shift over time as we start really having the global throughput successful. 11 So we can kind of see 12 that in the list of commodities. So right now, the top commodities coming into the United States are avocados, for 13 example, from Mexico, berries from Mexico, because those are 14 15 products that are moving quickly across the border. So the 16 time between the issuance of the certificate from our system 17 and it hitting the CBP system is quite short.

And so, though it's interesting that just as we've been monitoring over the past five weeks, we're already seeing some changes in the composition of commodities. So I'm going to be interested in when does that list level out? You know, when do we hit -- we don't know what a stable level looks like yet. We're not there yet. Okay?

The feedback from customs brokers are that they need more rapid turnaround on import certificate requests, 1 especially things that are moving across the border quickly. 2 They're being told by certifiers it's going to take a couple of 3 days because I need to make sure that this is actually an 4 authentic shipment. And the brokers say, well, okay, and we 5 need to move it along. The feedback from us is to certifiers, only issue valid import certificates or you will lose your 6 7 accreditation. Period. Okay?

8 We're taking this really seriously. This is not a 9 paper chase. This is not a paper chase. And so, if certifiers 10 work -- who are overseeing those exporting companies, if it is 11 found that that product is not authentic organic, the rule 12 allows us to hold those certifiers accountable.

And in fact, we have enforcement action currently 13 14 against certain certifiers. Because that's in progress, we're Some of the enforcement work we're 15 not talking about details. 16 not going to be able to share publicly. I encourage you, if you are interested in kind of monitoring how things are going, 17 our enforcement webpage lists settlement agreements. 18 It lists 19 decisions. It lists enforcement actions.

20 So here's the trend over time. This is a look at --21 the green are valid import certificates in the customs system. 22 So valid certificates that have entered the customs system. 23 And this is where we got that 70 percent-ish of being valid. 24 And so the rest of them are kind of a mix of different 25 certificates that we are following up on. Okay? There's a bit

Burke Court Reporting & Transcription (973) 692-0660

58

1 of a learning curve here for everybody but that we're following 2 up.

3 So you can see the trend line slowly going up. We're 4 going to have to see when that kind of levels off. You can see 5 when the weekends are. So the dips are the weekends. Okay? It's actually kind of helpful to see how many weeks that we 6 7 And you can see that that -- there are some days have here. 8 where that green line is pretty thick and there are some days like in the very recent where there's a little bit more red. 9 10 And so, there are examples of the things that are not green are certificates where somebody clearly fat-fingered the entry. 11 So 12 And you can tell everything about the there's just a typo. code is correct except for like the last two numbers that are 13 14 transposed when you compare the CBP number to the import 15 So it's really close, but somebody flipped the last number. 16 two numbers when they were entering it into the customs system. 17 So we do have some of those.

We also have, as I mentioned, the paper-based import 18 19 certificates where it could be that people just quite aren't 20 ready or can't or aren't able or had a system crash. We had a 21 couple of systems glitches our first couple of weeks where 22 people just had some challenges generating import certificates, 23 and those are working their way through the system. But there 24 -- again, there's a little bit of a lag time here. So if our 25 system was down, you know, even for six hours the first week,

which it was. You know, this is a big system update and unfortunately happened at the exact same time our agency needed to do a system update. And that happens. And so, occasionally there are going to be these paper certificates that show up and there may be a lag period in which they appear.

6 There's also a temporary code that customs brokers 7 are allowed to use if they do not have the permanent 21 8 character code for the import certificate, but they have other evidence that the product is organic. And so that is what 9 10 we're calling a temporary code to allow them to put the product through because they have verified it as authentic product even 11 12 though they do not have the electronic import certificate. The brokers are very, very selective about using that. 13

Brokers are licensed and can use -- lose their Brokers are licensed and can use -- lose their license just like our certifiers can lose their accreditation, just like an operation can lose their certification. So, customs brokers have a lot to lose by not following our rules. And in fact, we are hearing about customs brokers who are not allowing product in because there's no evidence that it is organic.

21 So, while we don't necessarily have stop-sale authority, the 22 customs broker can say I'm not entering this as organic. I'm 23 going to change it to conventional because there's no evidence 24 that this is organic. And so, in many ways, customs brokers 25 are becoming our very first line of defense in ways that I 1 think are helping us more than any of us can possibly realize 2 at this time.

Again, the presence of absence. We're not going to 3 4 get a phone call every time a broker does that that says, nope, 5 you don't have it. I'm not doing it. But customs all -- every 6 broker working in the U.S. system got the alert from the 7 customs system saying our rules are live. Follow them. And 8 they're not going to risk their license on it. They do this 9 every day. Right? For them, organic is just one more piece of 10 the puzzle, but they're not going to risk anything. They don't -- they're going to do what they need to do. So that serves us 11 12 in ways we're not always going to be aware of.

Okay. Key challenges. We've got problems. Right?
We've got success, so we have new problems.

We do have a certifier learning curve here. 15 16 Certifiers, both USDA and our trade partners, are still 17 learning this system. They are not always accurately marking in our system in the integrity database if the importer is 18 19 certified. And that's creating some problems because a couple 20 of -- a few of those 700 warning letters that we sent out, we actually got emails back from the importer saying I am 21 22 certified. Here's my 10-digit code. So we need to help 23 certifiers get better in the Organic Integrity Database of 24 identifying whether an importer is certified or not.

25

Eventually, we're going to keep monitoring. At this

1 -- at some point, we may make that mandatory because it's 2 mandatory for importers to be certified. It may be they're not 3 able to generate the electronic import certificate without 4 having that 10-digit code for the importer.

5 We're not quite there yet. Again, we still have a 6 lot of importers that are, in good faith, in the pipeline. 7 We'd like to let them get through that pipeline.

8 Certifiers are also making that transition from the 9 legacy paper certificates to the new electronic system. And 10 that's in part why you're seeing those 30 percent are not 11 electronic yet, because that's the data right now we're 12 getting. It's not the legacy paper certificates.

Our regulatory discretion, the degree to which we can 13 14 support kind of the on-ramp into the rule, even though we know 15 folks have 14 months and sometimes the grieving process takes 16 more than 14 months, but we're trying to support legitimate trade while also protecting organic integrity. So all 17 producers, processors, and most others must be certified right 18 19 now. Period. Full stop.

20 Exporting handler must be certified to get electronic
21 import certificates. Again, those are mandatory. Period.
22 Full stop.

I do want to note, this is important, particularly when we're talking to customs audiences, the entities listed on the import certificate may differ from customs filing 1 documents. Certifiers are kind of adopting different 2 frameworks to apply to very diverse supply chains. So some 3 variability is expected because the actors that CBP cares about 4 might be different than the actors that we care about. Their 5 handshake might be slightly different depending on what the 6 issue is, and so, some variability is expected. In fact, in my 7 view, the more actors we've got, the better. Right? There's 8 more people we can follow up on between the filing paperwork 9 and the import certificate.

10 We are allowing more regulatory discretion with U.S. importers who are not physically handling the goods. 11 So these 12 wine folks who took a little longer to get in the pipeline and I'm using them as an example simply because we've 13 others. gotten -- at one point, our customer service team reported that 14 15 like 40 percent of the incoming questions on SOE were from wine 16 So it's a very small import community. importers. Lots of very small importers that we're trying to get into the fold. 17

So, even if an importer is not physically handling 18 19 goods, they still need to get certified and they must get a 20 valid electronic import certificate. And our brokers are a 21 great line of defense with us in making sure they're 22 communicating that to importers. So, A, you need to get 23 certified and, B, you have to have this import certificate. So 24 we do have a whole outreach community of these licensed brokers 25 out there who are helping us.

1 Okay. Emerging certification process topics. We are 2 integrating new business types and structures. So I already 3 mentioned these retail distribution centers. Many of them 4 really are in the fold here. We have had conversations with 5 very big players who are calling us to kind of talk about what 6 they are encountering as they are entering the certification 7 fold. These are incredibly high volume, high throughput 8 environments. We need evolving certification models.

9 I would say that that applies at both ends of the 10 bell curve. I'm getting policy concerns from really small 11 farmers, getting policy concerns from really big retail 12 distribution centers. They both have different kinds of 13 concerns. They all revolve around the concept we've been 14 talking about for years, which is sound and sensible.

15 How do we ensure organic integrity and still move at 16 the speed of business? That's the central question, moving How do we ensure organic integrity and also move at 17 forward. the speed of business? That's going to require new approaches. 18 19 New approaches with small farms, new approaches with really big 20 retail distribution centers and warehouses and all sorts of 21 stuff.

I've been really pleased by hearing the collaboration that's happening between certifiers and their clients of really identifying -- these are big names. These are big brand names. They don't want their name in the paper for fraud either. And so, we're really positioning these folks as partners in this problem. How do we do this so that they're protected, we're protected, the consumer's protected, and farmers are protected?

4 We're getting a lot of questions about private label 5 arrangements. And so they're -- the questions are, okay, brand 6 owner versus the handler versus the what goes on the bag and 7 all sorts of questions that are coming up on private label 8 arrangements. We do want to clarify this with certifiers, but just sharing for the world, the rule does not require retail 9 10 label changes for newly certified private label handlers. So we have had some certifiers tell a private label, the folks 11 putting stuff with the bags, you've got to get new bags. 12

If you have questions about what the rule covers and 13 14 doesn't cover, often a really good place to go is the cost 15 section and how we estimated the cost of the rule. And new 16 retail packaging was not part of the rule. And it says 17 explicitly, if you search on private label in the rule, it comes up in somewhere in the teens, and one of those references 18 19 specifically talks about retail label use of private label 20 arrangements.

The fact that we're at this level of problems right now, I take as a pretty good sign. Right? We are -- anytime you're starting to get into this level of detail, we're doing something right. Okay? We're doing something right here. Balancing traceability with protecting confidential

1 information. You know, now we have the OID, Organic Integrity 2 Database Certificate, but we also have a certificate addenda 3 that certifiers have and are issuing. And there's really a key 4 question, and I think it's an open question of what does a 5 really high volume entity need? Do they really need all those addenda, or the fact that that operation is certified in the 6 7 Organic Integrity Database to list that product, is that 8 sufficient? And so, these are questions we're all going to have to wrestle with as we move forward. And so, we're 9 10 inviting a conversation about what this looks like. Again, organic integrity at the speed of business. 11

12 Defining risk-based certification approach. Oversight is going to have to differ across different business 13 14 types and sizes. We do not want to overburden small farms, so 15 that's been a real key message for our certifiers. There have 16 been complaints about some very specific certifiers, and how they've gone over the top. We've called those certifiers. 17 So, we want feedback. 18

We're all figuring this out. Remember, any certifier out there is worried about getting kicked out. You know, when I say something like, we're going to kick you out, people get nervous, right?

At the same time, that means -- that doesn't mean we overburden our small farms. So, we're hearing about OSPs that are now quite, you know, might be twice as long. It turns out, 1 maybe pages 7 through 14 are all N/A, doesn't apply to me, but 2 that's still an awful lot for farms to have to navigate. So, 3 we have to find a better way of doing this. I have full 4 confidence in our ability to do that as a community and as a 5 sector, and I think it's one of the promises of Strengthening 6 Organic Enforcement.

7 This is where we do the sales pitch on why it's good 8 to be certified. So, preaching to the choir here, but these are the talking points. Actually, all the brokers have these 9 10 talking points, too. I make sure that I do this in every single presentation with customs brokers, and they will, when 11 12 we have phone calls with them, well, I told them that the benefits are this and this and this and this. And so, it's 13 14 great, again, to have them magnifying our voice about the benefits of certification. 15

All right. Next steps. Responding to questions and scenarios from certifiers in trade, emphasizing of the identification and implementation of sound and sensible approaches. Rapid follow-up with importers, both certified and uncertified, on invalid APHIS or these transition codes, and taking progressive enforcement.

Folks do still get due process, and so there is a process that needs to unfold here. We want to educate certifiers on common data quality problems with the import certificates. For example, not marking an importer as 67

certified when they actually are. Reviewing certifier organic control system updates; we'll get their information in May. But we have also been hearing from certifiers and clients so we can calibrate, almost in real time, when we start seeing patterns of what needs to be addressed.

6 We had a webinar with over 300 certifiers and 7 inspectors a couple weeks ago through the accredited certifiers 8 association. It was great to get their feedback, but also to 9 sort of introduce some of these very early observations. 10 Again, we're only five weeks into this. We're only five weeks 11 into this, and we're already seeing some real action.

12 We do need to monitor and adjust the import That's for the customs folks, because 13 certificate flags. 14 organic has such a broad array of commodities. There's an 15 awful lot where customs brokers are getting pop-up boxes that 16 says product organic or not, when actually there's really no way that product is going to be sold as organic. So kind of 17 glitches like that, those take time to work through, and we 18 19 don't want to take anything off the list that needs to be on 20 the list, because so much can be certified organic.

We are also working with trade partner organic programs to assess systems. So if you go into the trade partner module of the Organic Integrity Database, you will see the listings of countries and programs, to be able to see the different operations in there. Most of those are exporters. So they're exporters that are in there in order to be able to issue the electronic import certificate. That's the function of the trade partner module. It is not designed to kind of take over those schemes' programs. It is designed to interface. Again, back to the importance of that handshake between that -- their exporter and our importer. And we'll be taking enforcement action where needed.

8 Phew. Okay. I'm going to take a drink of water for9 just a second.

10 CHAIR SMITH: If you know a customs broker, sounds 11 like we all need to buy them a beer or a drink of their 12 choosing.

DR. TUCKER: Okay. Next, call for nominations. So that was published this morning. Again, I did not know that when I put together this slide.

We'll emphasize the importance of one-to-one outreach, of really reaching out to people that you believe would be good members of the board. The program does the same thing. We have a list of what, 300 people you said, ish? Okay. Over 300 people.

21 We do a lot of direct marketing from the program to 22 different groups, to folks who maybe have applied before and 23 weren't selected. We always want to encourage folks who may 24 have applied before, weren't selected, to try again. The 25 timing might be right. There are a number of folks who have been on the board that tried two, three, four times before they made it on the board. Timing is everything. So do encourage folks to reapply.

4 We are looking for one organic farmer -- farming 5 representative, two handling representatives, one retail This one's going to be interesting because 6 representative. 7 there are now so many retail distribution centers who have 8 gotten certified. These retailers have real skin in the game 9 They've always had skin in the game, but now they really now. 10 understand some of the inside baseball aspects of certification and may kind of be more interested in entering that public 11 12 sphere of work here. And then, one individual with expertise in environmental protection and resource conservation. 13

Okay. Transition to Organic Partnership Program. We're going to be hearing later this morning from the Midwest TOPP group. Who's in the room who is part of Midwest TOPP? Go ahead and raise your hand. A lot of folks. Let's give them a round of applause. Yay. We're going to be hearing from them more, later today.

At a national level, so far in the TOPP program, we're about a year and a quarter into this. More than 20,000 people have expressed some kind of interest in transitioning to organic and that's at over 400 events. And so, these aren't just people who showed up at a conference. These are people who actually have engaged in the process to learn more.

1 When you move to the mentorship component, we've 2 received 275 mentor applications; mentee applications, 375; and 3 130 mentorship matches have been made. We've also really 4 learned different regions need different things. Mentorship 5 works great in some regions, doesn't work as well in other 6 regions. And so, we do have kind of a new category of service 7 called technical assistance where maybe a farmer doesn't want 8 to enter into a mentoring relationship but would really like to work with somebody with expertise on a focal basis to get some 9 10 technical assistance. And I think that's somewhere around 400 instances where technical assistance has been offered at this 11 12 point.

13 So, part of the TOPP program is the recent introduction of the Transitional Production Plan, TPP, another 14 15 acronym. This is an important on-ramp. You know, record 16 keeping is part of the organic system, and so learning how to do that early in the process, but also demonstrating how that 17 can be done in a fairly light way -- lightweight way is kind of 18 19 the goal of the TPP. So once a farmer has completed a TPP and 20 a certifier has signed off on that, it involves not an on-site 21 It involves -- it is a desk review once, however, it audit. 22 appears that that operation is going to be able to comply. 23 Again, this is transition, right? So it's an extra regulatory 24 category. There is not a formal certification category for 25 transition.

1 So the Transition Production Plan includes the things 2 one would be doing to be able to be successful in becoming 3 So when a certifier signs off on that, that operation organic. 4 is then eligible to be listed in the Organic Integrity Database 5 as a transitional operation. Now, those listings are not 6 available to the public. Those are only available to USDA, but 7 they do allow us to share that data with RMA, Risk Management 8 Association, for the purposes of insurance, crop insurance, 9 transitional crop insurance. So if you're listed in the 10 Organic Integrity Database and RMA can find you there, you have a transitional production plan. That counts as an OSP for the 11 purposes of RMA. And so, they were very pleased when this came 12 They had a chance to look at it. There are also elements 13 out. 14 of this that can support applying to NRCS programs.

15 Phew. I am going to close here with a peer Okay. 16 So we have a program, and there's folks who have been award. here before who have seen me do this before, giving the 17 Employee of the Quarter Award here at the program. 18 When we 19 have people who have won it who are actually in the room, I 20 like to do those awards in person. And so, this quarter, our 21 Employee of the Quarter is Jo Mirenda. So I'm going to Yay. 22 talk just a little bit about Jo and how fabulous she is and 23 then I'll bring up the award for you. Okay?

The Employee of the Quarter is a, again, a peer
nominated award. The entire Standards Division came together

1 to nominate Jo for this. And it was because she's a terrific 2 colleague and really smart and really helpful, worked on the 3 retail toolkit and the primary driver for this particular 4 quarter was the overhaul of the NOP handbook.

5 So we talk about SOE, but there are a lot of other pieces of SOE too, including cleaning out the handbook so that 6 7 we didn't have a lot of conflicts between the handbook and 8 Strengthening Organic Enforcement. That was a huge lift. The handbook hadn't been updated in a while, and doing that review 9 10 and categorization of what could be updated easily, quickly, what might need more updates later on, but we couldn't do right 11 12 now, and making those kind of tough decisions about what was in and what was out, lots of different opinions of that. 13 And so, 14 Jo did not only a fabulous project management job, but a great 15 job doing a lot of the writing of those documents. So, for all 16 those reasons and more, Jo, thank you very much.

Okay. That whole thing took a little longer than I expected so sorry about that, but it felt like there was a lot to share there so I'm turning it back to you for Q&A.

20 MS. HEALY: Great. So, yeah, now we will have Q&A 21 for Jenny from the board. I see Allison and Brian. Go ahead, 22 Allison.

BOARD MEMBER JOHNSON: Thank you so much, Dr. Tucker.
That was a huge amount of information and I think we can all

23

Q& A

1 agree that we're really impressed with how much work has gone 2 into SOE and the continuing transition work and seeing these 3 numbers is just astounding, so thank you. On transition in 4 particular, I've been in a deep dive on transition for a number 5 of years now and just having a number to point to, 20,000 6 people interested in transitioning is big because up until now 7 it's been like, well, they're probably out there. We don't really know how many, but hopefully we can help them. 8 So 9 starting to get concrete and see this progress is huge.

10 On Wednesday, we'll be talking about a proposal on transition and one of the main pieces of feedback that we heard 11 12 in public comments this time around is around the NRCS portion of the Organic Transition Initiative. I know TOPP is in your 13 14 purview. We have the market grants part, and then we have this NRCS incentive for transition, and it sounds like people are 15 16 really struggling to access it and that it's quite uneven across the country. I know that's outside the NOP's world 17 directly, but I'm wondering if you have any advice for us as 18 19 the board and as a community about how we can get all these 20 pieces working together better?

DR. TUCKER: Yeah, thanks for the question. We meet monthly with the NRCS lead in charge of the organic programs. And one of the things we've really learned is just how different NRCS's governance and roles and structure and organization and funding and everything else, just how different it is from how we tend to operate as a national program. And when -- we -- my best advice is move with their system. Move with their system, which really means one person at a time.

5 So there are a whole -- every state is a little 6 different. Think about NRCS's mission. So, a whole lot of 7 what NRCS does is very local conservation work, right? They 8 have state-level leads. They are designed to have people right 9 there on the ground providing service. Some of those folks 10 don't know anything about organic. Some of those folks actively don't like organic because there are some organic 11 12 practices that they don't feel are compatible with NRCS.

Every state office is going to be a little bit different and may have a leader who feels differently about organic. So the best advice for everybody is figure out how to distribute across the network. Now our TOPP folks are already doing this. We've had some TOPP leads who have tried to contact NRCS and haven't been successful, right?

19 This is a work in progress. This is a work in 20 They do have projects under OTI that haven't quite progress. 21 gotten out the door. There have been some challenges there. 22 We're incredibly lucky to have been able to field TOPP 23 reasonably quickly and to get the program out and operating. 24 NRCS has had more challenges in doing that for a lot 25 of different reasons. So, the best advice is work your local

1	networks. Get to know your NRCS contact wherever you are
2	because it really is "all politics is local" with NRCS.
3	CHAIR SMITH: Brian, please go ahead.
4	BOARD MEMBER CALDWELL: Jenny, thanks so much for all
5	this work. It's super impressive and I'm always amazed at the
б	breadth of your expertise. Got to say that.
7	One of the things I'm ignorant about, I'm going to
8	have two quick questions. One is, first one is what are
9	customs brokers, kind of what do they do? I don't know what
10	their role is exactly. But the second is whether there are
11	other government agencies that can help with the residue
12	testing part of, you know, basically fraud prevention at the
13	borders and whether we might be able to transfer some cost of
14	that from our certifiers and handlers and farmers, to the
15	exporters and, you know, other entities, so.
16	DR. TUCKER: Okay. Let's take the first one first.
17	What do customs brokers do? You know, I have learned a lot
18	about customs brokers. In fact, I went to a customs brokers
19	conference just a couple of weeks ago. It is fascinating what
20	these folks are dealing with just every single day.
21	They are responsible for making sure that imports
22	into the United States comply with the law. That's, I mean, in
23	a nutshell, what brokers do. So, what does that practically
24	mean, is that for any product coming into the United States,
25	they need to understand what the rules are that apply to that

Γ

1 particular product.

2	So, for example, I gave a panel. I was sitting next
3	to an APHIS employee who is in charge of the Lacey Act, which
4	relates to native wood products. You can't bring in, for
5	example, endangered species wood products into the United
б	States. So all these customs brokers have to, just like
7	they're checking for organic import certificates, they might
8	also be checking for, depending on the product, was the Lacey
9	Act met? All sorts of FDA rules that they have to follow.
10	It's just a number of laws and acts that govern imports.
11	They're responsible for all of that.
12	BOARD MEMBER CALDWELL: And are they sort of the same
13	as what I think of as custom agents? Are they government
14	employees, or
15	DR. TUCKER: They're not government employees. They
16	are licensed brokers. You can go to school to become a customs
17	broker. There's an exam and everything. It's a very rigorous
18	process.
19	But yeah, these are private sector entities. They
20	may be small businesses. They may be individual, sort of an
21	LLC, if they have a very, very focused import portfolio. These

are multi -- like our certifiers, multinational companies with multinational companies that have brokers all over the United States. Yeah. It's an impressive group.

25

In terms of testing, so we are doing more testing now

1 from the National Organic Program. So, we are certainly aware 2 of commodity-country combinations, region commodity 3 combinations, where we would like to do some surveillance of 4 that. And so we are taking -- we're collecting samples at 5 different ports.

6 But we also have funded the Federal Grain Inspection 7 Service, FGIS, which is a sister program to AMS. They already 8 have folks at the ports around the United States because 9 they're exporting grain. And so they have agreed to help us 10 out with a pilot to kind of flip the role and actually do some sampling of imports coming in because they're already at some 11 12 of the ports that we're particularly interested. With SOE, we'll have an even better sense of what's coming into what 13 14 port, so we can do much more targeted testing. So we've 15 already funded FGIS to do that work.

BOARD MEMBER CALDWELL: Thank you so much, Jenny. And this is so important. I'm just really psyched at the effort you're putting into it and, like I said, the comprehensive aspects.

CHAIR SMITH: Amy, please go ahead.

VICE-CHAIR BRUCH: Sure. Thank you, Kyla. Thank you, Jenny. Very encouraging, your early assessment of SOE in action. Really appreciate your update and all the work that's being executed on that.

25

20

I had a question on transparency, acres on

certificates. It was a big initiative by the board and with
 SOE we do have transparency of operations. Size is becoming
 available on OID, which is really a step in the right
 direction.

5 I wanted to ask you, though, about insight into 6 grower groups and production acres with them and also with our 7 equivalency partners, when we're importing products into our 8 country that pass through equivalency partners. How do we get transparent data relating back to the farm on operations that 9 10 are coming in via imports from those type of vehicles? And then, just, maybe you can touch on general equivalency partner 11 12 oversight.

13 DR. TUCKER: Okay. Great questions. First, I do want to acknowledge that this is a board recommendation that 14 15 was implemented. It was implemented fairly quickly. So this 16 board had a lot of conversation about including certified acreage on certificates. And if you go right now into 17 operation profiles within the Organic Integrity Database, it is 18 19 now a required field. And so, total operation acreage is 20 required for USDA certified operations.

The -- now, let's move on to grower groups. The requirements, there are two steps of that. Most operations are not grower groups. Right? So, we have to be kind of careful. You have to think about the data and how the data relates to each other. So, it would be not sound and sensible to ask 1 every single certifier to enter in like, 0 or 1 for any 2 operation that isn't a grower group, right? So, that's just a 3 lot of work. Right?

4 So, the grower group field, in terms of numbers of 5 producers in the grower groups, is tightly linked to another field in the database called business type. 6 The business type, 7 there are a number of different business types in Organic 8 Integrity Database. One of them is grower groups. And so, the 9 database is being programmed such that if the certifier picks 10 grower groups as business type, then there will be a required field of number of entities in that grower group. 11 We're 12 expecting that to go live around the end of June.

That's a fairly significant update for certifiers. 13 You know, for certifiers who have already kind of programmed an 14 15 interface between their systems and our systems, us making 16 fields mandatory as required under SOE is actually a fairly significant lift and I want to kind of honor the fact that this 17 is a lot of work. So, the number of grower group entities will 18 19 be mandatory as of right now, the end of June. So, at that 20 point for any of those farms, a grower group farm, you'll be 21 able to see the total acreage of the operation and you'll be 22 able to see the number of farms. Those are for USDA farms.

Now, to the equivalence part of the question. I
mentioned during our update that the primary purpose of the
trade partner module in the Organic Integrity Database is for

exporters, that exporters from the United -- from outside the United States to the United States in order for the purpose of getting an import certificate. So the same is true for the other way around if we're sending something to TRACES, for example.

There are lots of different handshakes between 6 7 different equivalence partners, but there are also governance 8 boundaries. There are governance boundaries. And so, we could 9 under the rule, invite or require that import certificate. If 10 you want to ship products to the United States, you have to have an import certificate. But the operations, the producers 11 12 inside of those governments and government countries, they're actually growing but aren't the exporter. That's within the 13 14 purview of the equivalence partner, not us.

15 We do not, and this tends to be a little bit of a 16 surprise to people, we do not have direct jurisdiction over certifiers under organic -- other organic schemes, equivalent 17 schemes, and we don't have jurisdiction over their operations. 18 19 So, if there is a problem with something coming from a trade 20 partner country, we need to work through the trade partner. We 21 have to work through the trade partner. Okay?

Now we've been doing -- good news. We've been doing this for a long time. Better news, that relationship -- those continue to strengthen. It is something we really need to be aware of and monitor really closely over the coming months 1 here, because I mentioned that about 37 percent of the import 2 certificates are coming in under trade arrangements. If there 3 are problems with those products, we're going to need to work 4 through the trade arrangements.

5 So equivalents have a lot of benefit in facilitating 6 trade, but they also have some limitations in terms of 7 jurisdiction and to your kind of question, transparency. We 8 don't necessarily -- I mean we're very -- I think we need to 9 acknowledge how advanced the Organic Integrity Database is. 10 The fact that we are such a transparent system, I think can 11 help in sparking other governments to become more transparent.

I think there are questions of are we really still equivalent that need to be asked. This is a process, not an event though, because these are again country-to-country conversations and negotiations. And so, I cannot -- we cannot for example, require our trade partners to enter in all of their crop operations and all of their acreage. We just can't do it.

The question is, are our systems equivalent? And so we'll be working -- are working, present tense, with those partners to share what have we done on SOE, what have we learned from it, and to ask them, what are you doing about this problem? How are you handling this? Gosh, you've grown a whole lot of operations in this location. How are you overseeing those?

82

Having the import data will give us much better sense of what's going on. So, if we get, for example, an invalid import certificate that's under a trade partner country, we can ask them to investigate why don't we have a valid import certificate? It does add a layer of complexity and oversight that I think we're all going to learn what the implications are.

8 So, Amy, that was a long answer, but it was also a 9 really complicated question.

10 VICE-CHAIR BRUCH: Thank you, Jenny, for diving into 11 that more. I appreciate it.

12 CHAIR SMITH: Kim, please go ahead.13 BOARD MEMBER HUSEMAN: Thanks, Kyla.

14 Jenny, I've thought quite a bit as you were speaking about how to frame this question, because I feel like you have 15 16 done a nice presentation on SOE implementation and sound and 17 sensible as we talk about the farmer community, the small farmer in the U.S. I, one, you know, want to emphasize when we 18 19 receive beans, does the farmer have organic sharpied on his 20 trailer? The non-retail transportation component is gray and murky and complicated for my entity, particularly, and farmers 21 22 in general.

You mentioned that due by May 17th, is feedback from the certifier community on how to handle some aspects of maybe where the certifiers maybe disagree or have different approaches. What is the follow up? What's the next step after receiving that information back from the certifier community, of May 17th?

4 DR. TUCKER: I -- there's going to be -- I think 5 there's already kind of an iterative process. I mean, just 6 last night I had a great conversation with a certifier who 7 asked the exact same question. Small farm, so here's the use 8 case, very, very small farm, only produces organic, only ships to an aggregator who is 100 percent organic and is asking, 9 10 You know, the container I use to ship this 100 really? percent, from this 100 percent organic operation to that 100 11 12 percent organic operation. Really? I mean, so there are some 13 questions like that, really.

And so, this is where I want to really emphasize the importance of the preamble. So I'm going to -- we're going to go for the regulatory geeks in the room. We are often used to, because, you know, we've had a bit of a gap between practice standards here, we're used to reading the regs. What do the regs say? Right?

And so, there might be a line in the regs that says, thou shalt do this, thou must do this. The preamble explains why that's important. And that's really the answer to sound and sensible, that there is some regulatory discretion here.

Now, there's always going to be a call forconsistency, but I also want to remind us that different

Burke Court Reporting & Transcription (973) 692-0660

1 businesses are different. All right? Different businesses are different. And if I'm selling to a operation that has both 2 3 conventional and organic product, their fraud prevention plan 4 may be, yes, if I'm taking in anything, that non-retail 5 container must have the term, organic. Now, that does mean 6 that small farmer in that case may need to have that label on 7 because it's in the fraud prevention plan for their buyer. 8 There might be other small farms that have a different supply And so, we need to find boundaries. 9 chain.

10 We need to find business rules that people can explain critical thinking criteria that can then be applied to 11 12 different environments. So, there's going to be a bit of a conflict here between sound and sensible and everybody being 13 14 consistent, right? And I think we'll need to embrace that 15 dichotomy because different businesses are going to need to do different things depending on risk in their supply chain. 16 In general, if you're at the beginning of the supply chain and 17 feeding into it, your burden really should be pretty low. 18

And one of the things we're strongly encouraging is folks to talk to each other. How are you complying? Talk to your certifier. Have that collaborative conversation.

I think there's also work happening in the accredited certifiers association and other associations where they're seeing these common business problems that we really need communities of problem solving. The board is a great forum for 1 that. That also takes a while and I think that there are some 2 real time changes that can happen.

We're also working with NOP to make sure all our auditors understand what sound and sensible is and what that means when they go out for an audit. It's a culture change for us too.

CHAIR SMITH: Thank you, Jenny.

8

7

Nate, please go ahead.

9 BOARD MEMBER POWELL-PALM: You mentioned this just 10 for a second there, Jenny. So I wanted to highlight one thing. That when we were asking this question, how can we get better 11 12 at mass balances? And the community, certifiers, farmers, Amy, for sure, said it would be really helpful to have acreage on 13 14 certificates. Again, the speed at which we were able to 15 accomplish that is incredible.

And so I wanted to just highlight how much iteration happened between CACS asking, can we do this? And you giving us a really clear path for what is the opportunity and where are the boundaries. So I wanted to thank you for that partnership and getting that across the finish line.

It was really exciting to get on OID, I don't know, three weeks ago. Like, shoot, I can see everyone's certificate. Maybe I don't have as many acres as I thought as I looked at this. And it was great. So, thank you again. DR. TUCKER: Thank you. I also -- we have an amazing 1 Organic Integrity Database team, so I haven't done a shout-out 2 for them, but so much of this work is possible right now. What 3 we're -- all those numbers went up on the screen only because 4 that team was able to field that technology last fall so 5 everybody could get in and start using it. And so, yeah, they 6 deserve an awful lot of praise for that as well. So, thank 7 you.

8

CHAIR SMITH: Allison, please go ahead.

9 BOARD MEMBER HUSEMAN: Thank you. We're really 10 excited about the nomination process being posted today, and looking around this table, there are only four of us on the 11 12 board who are still here in a couple years, so we're really excited to see a big, diverse team come in. And I'm wondering 13 14 if you could speak a little bit more to the process, what factors are weighed in selection, and how we'll get a really 15 great mix of candidates in front of the secretary and what goes 16 17 into decisionmaking.

Yeah, for folks who have not been around 18 DR. TUCKER: 19 this process before, again, strongly encourage folks to do 20 outreach, to encourage folks to apply. The call for 21 nominations does sort of lay out sort of the criteria for that. 22 We have a strong interest in organic expertise, organic 23 production, certification expertise. But we also have a strong 24 interest in equity and diversity. And so, what folks kind of 25 may not realize is that all of the call for nomination and the

1 rechartering of the board goes through a civil rights review.

And so as you are kind of reaching out to folks, you want to think about kind of what is the areas of expertise on the board that will be leaving. So look up, you know, who's -raise your hand if you're leaving. So those are the sources of expertise that we're going to be losing here.

7 But we also want to reach out to a broad set of 8 potential candidates who could really add diversity to the conversation. So we will, in particular, we're looking to 9 10 increase representation in Indian and Alaskan Natives, Native Hawaiians or other Pacific Islanders and persons with 11 12 disabilities. And so those are categories that civil rights highlighted as areas where in general are underserved and are 13 14 underrepresented.

15 I would also, you know, encourage current board 16 members, if you have sources of diversity, so for example, 17 perhaps, you know, some type of hidden disability, you know, you can always update your demographic information with 18 19 Michelle, because we do -- it's been brought up in previous 20 meetings that we have a whole lot of different sources of 21 intersectionality on this board, a lot of sources of diversity. 22 Not -- USDA's form doesn't necessarily include all those 23 different forms of diversity, but if you do have one of those 24 forms of diversity, we want to make sure that that's reflected. 25 Amy, please go ahead. CHAIR SMITH:

VICE-CHAIR BRUCH: Sure. Thanks, Kyla. Thanks,
 Cindy, for your extended time here.

I have another question for you on discouraging fraud. The penalties are clear domestically for those engaging in organic fraud, dealings on prison and fines. Can you give an overview of the equivalent enforcement levers that can be pulled on international bad actors to level the playing field?

8 DR. TUCKER: Yeah, this -- I think we are getting better at figuring out what those levers are and how to push 9 10 And so, for example, right now, we have a couple of them. appeals cases, where -- these fairly recent cases, where 11 12 operations have been proposed: suspension or proposed revocation in another country. I'll get to equivalents in a 13 second, but I think the question is also to the international 14 15 USDA, because that's also a question of how do we deal with 16 that.

And so, we are advancing a couple of cases to administrative law judge hearings that involve operations in other countries. We haven't done a lot of those, and it is a complete -- it is a separate process, it turns out, because the processes for serving, just getting the serving of the documents to a foreign entity is a challenge.

In terms of equivalence partners, we need to work with those trade partners, so if there is a challenge within their country, that they are taking care of it. In fact, one

1 of the reasons we ended the India Recognition Arrangement is 2 that they weren't kicking out certifiers that really needed to 3 be kicked out, and there were fraudulent operations that they 4 had not taken action against. So, we're going to continue to 5 work with our trade partners to understand. We look at what is 6 the percentage of operations that have gotten kicked out. You 7 know, a fairly stable level is that certifiers in the U.S. 8 system kick out about one person -- one entity per day. So if you ever worry about certifiers don't want to kick out their 9 10 clients, they can and do kick out their clients. So if you keep an eye on suspensions, it's actually one of the things we 11 12 look at during audits is how many operations has the certifier actually kicked out. And if they haven't kicked out many, 13 that's something that we drill into. We consider that an 14 element of risk. 15

Trade partners, again, there are benefits of these equivalence arrangements but there are also challenges in that we really are one to two step removed on the enforcement.

19 CHAIR SMITH: Okay, Jenny, I have a question for you. 20 A question came up during the comment webinar around how long 21 we would take to see an impact from SOE, and you shared in your 22 presentation some great early wins so that's really 23 encouraging. Kim made the analogy around an egg beater turning 24 the big SOE ship. I have my own personal opinions, but I don't 25 know if you'd want to share anything more about when the 1 community will really see or feel notable differences here
2 domestically.

3 DR. TUCKER: I think -- first, I'll say I have a more 4 positive view of SOE. I think it's way more than an egg 5 I think that there's a whole lot of potential with SOE beater. and that we should exercise optimism and faith. 6 So, a lot of 7 people gave a whole lot of comments to SOE and I think we need 8 to give it a chance to protect us. Okay. Give us a chance. Give us a chance. I think it's more than an egg beater. 9

In terms of actual, so we know from -- I mentioned but I want to repeat it. More than a dozen custom brokers who have called us and said that they have rejected product as organic and they have marked it as conventional because they didn't have evidence of its organic status.

15 I -- other examples that are related to SOE, we're 16 seeing a big jump in trademark violation investigations. So, over 20 percent increase so customs, this all works together. 17 It's not just one thing. And so, trademark protections, 18 19 customs has been actively doing that for us now for, it's been 20 almost a year at this point. They've blocked a whole bunch of 21 products, thousands and thousands and thousands of dollars. 22 The import certificate requirements gives them one more step. 23 So we have somebody in the targeting center that is now very, 24 very regularly getting calls from customs saying it's got the 25 seal but doesn't have a certificate. It doesn't have an import certificate. We think it may be violating trademark. And that
 product isn't held based on our authority or even the customs
 broker authority. It's held based on CBP authority.

And those holds come with fees. So back to how do we protect some of the market is when that product has to sit in a warehouse and somebody has to write a check to CBP while it's being investigated for trademark violations, that costs money and that in itself is a deterrent. We are seeing the number of those go up. So the trademarks work hand in hand with SOE.

I think those are immediate impacts. I think there are also -- we're not getting a call from every custom broker every time they, you know, mark something as conventional. But to have those calls within the first couple of weeks, I think is a signal that something's happening out there.

I want to make sure that -- you said up front you had an opinion, so. You're sitting in the certifier's seat. What do you think?

I think with most any rule it takes a 18 CHAIR SMITH: 19 full inspection and certification cycle to really see the 20 impact of what's going on out there. Also, you know, 21 accreditation audits, as they're ongoing, I do think with these 22 three rules, there's been a bit of a change with getting more 23 information faster with those requests for information from 24 certifiers. So, I think that the program is able to act more 25 quickly against certifiers who are not implementing the rule

1 effectively or those -- all those rules, effectively. And more
2 will be revealed on accreditation audits. So those are my
3 thoughts.

I see a couple more questions. I just want to make sure -- we are running a bit behind schedule so this is an important conversation so I'm going to let it go on but I see Jerry and then Carolyn and then I think we'll probably try to wrap it up and then we'll take a break.

9 BOARD MEMBER D'AMORE: Thank you. To the questions 10 that you've just been asked, Jenny, I think there's another 11 aspect that you, yourself, or an example that you gave maybe two years ago which is when you reach this stage of what we're 12 doing with SOE, it is frequently ill-advised to talk about your 13 14 successes and, you know, methods and practices and what's going 15 It's going to take a while for even -- things that are on. 16 happening right now that will not be spoken about for quite 17 some time is the way I guess I put it. And you don't have to 18 comment to that. That's just a thought.

19DR. TUCKER: Thank you for the comment, Jerry. Thank20you.

21 CHAIR SMITH: Carolyn.

BOARD MEMBER DIMITRI: I'm very sorry to change the topic here, Jenny. This has all been fascinating but I -- you know, self-interest always prevails.

25

So I was just at the project directors meeting for

1 the OREI and Matt put up this beautiful slide with like OREI 2 priorities that came out of the farm bill when the funding 3 program was established, and then some other lists. And then 4 he had this list of two NLP priorities and one was methionine. 5 I don't know how to say it. Some methionine, that, and then 6 some other word that I just kind of, something that made not 7 very much sense to me either as an economist. So do you know 8 anything about how those NOP priorities get set for the OREI? 9 Thank you.

10 DR. TUCKER: We do have a process for making sure NOSB resource priorities get over to NIFA. 11 So National 12 Institute for Food and Aq. They are very much an independent I think they came to a meeting a few years ago. 13 agency. Ι 14 think -- Michelle, you've been here for 24 meetings. Do you 15 remember which one that was? And I think they shared some of 16 the challenges there.

We're not involved in that process. We do transmit the board priorities to them if we kind of want to invite them back for a future meeting. That might be something we could do.

BOARD MEMBER DIMITRI: I mean I'm aware of the NOSB priorities, but these said NOP priorities. So I'm going to ask Matt and I'll get back to you.

DR. TUCKER: I, yeah, clearly I'm doing the best Ican here, but yeah. I think, yeah. Sorry.

1 BOARD MEMBER DIMITRI: That's okay. 2 CHAIR SMITH: Ok. We are going to take a break. We 3 are going to come back at 11, whatever 15 minutes is. I can't 4 do quick math in my head. 11:38. Is that right? 11:40. 5 Great. 11:40. Okay. Great. 6 BREAK 7 CHAIR SMITH: Okay. Great. We're going to now hear 8 from our Midwest TOPP partners and I'm going to turn the mic to Jenny to introduce the Midwest TOPP lead. 9 10 DR. TUCKER: So this has become a very nice or standard part of the National Organic Standards Board meeting. 11 12 This is the third time we've done this. It's the third unique region that we have been to. So we have heard from the 13 14 southeast TOPP region when we were down in Atlanta. Then we 15 heard from the northeast TOPP region when we were oh my 16 goodness, where were we? Providence. And it's been a really nice cadence of being able to introduce the regional lead who 17 then kind of runs the show in talking about what's happening in 18 19 the region. 20 So we are today in the Midwest TOPP region and so it is my pleasure to introduce and then turn the mic over to Cori 21 22 Skolaski. So Cori, wave, yay. 23 Cori is the Executive Director of MOSA Certified 24 Organic. She joined MOSA in 2013 after serving as the 25 Executive Director for Habitat for Humanity in La Crosse for

ten years. She has a lot of experience in servant leadership, organization management, and advocacy. If you take a look at Cori's LinkedIn profile, you do an awful lot of volunteer work and outreach. It's really impressive. So, I think I sent you a connection request so we can -- there you go.

6 It was great to learn more. It's just a good
7 reminder of how everyone in the room has, you know, diverse
8 interests and serves their communities in different ways, so.
9 Cori and her family live in Viroqua, Wisconsin where she fights
10 off rabbits as she tends to a large garden.

I do also want to do a shout out to Allison who is sitting next to Cori there. Allison, wave. You know, I have gotten -- I had the pleasure of getting to know Allison. I went out to the -- it was Iowa, right, the Organic Conference.

And I listened to Allison. She was sitting at a 15 round table and the guy sitting next to her was clearly a 16 skeptic. 17 He opened the conversation and said, I'm not doing And so, he was basically begging to be argued with. 18 organic. 19 Man, does she do a beautiful job, kind of getting into the 20 pipeline of, well, yeah, I get that concern. And yeah, here 21 are all the other reasons people don't want to do it. And so, 22 acknowledging those concerns but then also saying, here are 23 some things you should know. And you know, here are some 24 things to be aware of.

25

And so, I was impressed by her ability to do that

1 very gentle sort of sales job in the moment. To the point 2 where I watched, he actually took a brochure. And I thought, 3 you go, girl. And so, yeah, those stories are happening across 4 our regions, across our partners, every single day. And so, 5 I'm going to turn it over to Cori to tell the story of the 6 Midwest TOPP Program. So, welcome and thank you for all the 7 work. 8 MS. SKOLASKI: Thank you. 9 DR. TUCKER: Oh, let's applaud. 10 MS. SKOLASKI: We're trying to get those slides to 11 move to advance. 12 MIDWEST TRANSITION TO ORGANIC PARTNERSHIP PROGRAM (TOPP) 13 PRESENTATIONS 14 CORI SKOLASKI, MOSA 15 MS. SKOLASKI: Well, thank you very much to the

16 members of the National Organic Standards Board for your good 17 and hard work. The time and talents that you give to this 18 group, it does not go unnoticed and I appreciate it very much.

19Thanks also to the -- our friends at the NLP for20their diligence and vigilance. There's definitely been more21staff and we appreciate your commitment to organic integrity.

This year, MOSA celebrates its 25th anniversary. We were formed in 1999 by Dave Engel, one of the organic pioneers in the industry. After MOSA, he went and started NICS as well. Both MOSA and NICS are located in Viroqua, Wisconsin, about three hours due west of here on the other body of water, the
 Mississippi River.

We currently have -- since the pandemic, MOSA became completely virtual and we have 44 staff that live in 10 or 12 states and three countries. We work with about 50 contract inspectors annually and we have over 1,800 clients.

7 On August 26th, 2022, a date that will live in infamy 8 in my mind, I met with Jenny Tucker and she explained the 9 organic transition initiative, specifically TOPP, and told me 10 that MOSA had been chosen as the Midwest team lead. So we're 11 overseeing 11 states. And in 67 days, by October 31st, we had 12 submitted our statement of work for \$15 million and we had 13 hired Allison Walent as our program manager, director.

I missed this slide. 14 This is my pretty staff. So, 15 the TOPP program is going and growing. It's really impressive 16 in such a short period of time, since October of '22 until 17 today, the connections that have been made, the partnerships, and how robust the program has become. And I think that's a 18 19 testament to the excellent regions and their leads. It's --20 we're working very collaboratively with each other and it's 21 paying off. It shows.

And specifically, the Midwest region is doing great because of Allison Walent. Go ahead, Allison.

24

25

ALLISON WALENT, MOSA

MS. WALENT: Thanks, Cori. Good morning, everyone.

Burke Court Reporting & Transcription (973) 692-0660

My name is Allison Walent. I'm new to MOSA for the TOPP work.
 So, thank you, Jenny Tucker, for creating a position for me and
 all.

4 I also really want to say thank you for the 5 opportunity today to share about our work and a little bit of what we've been doing with Midwest TOPP. And we're going to 6 7 talk a little bit about Midwest TOPP as an overview and then 8 I'll provide that. And we're going to have an opportunity to 9 meet some of our core partners across the Midwest without whom 10 we wouldn't be able to do this important work. So, our partner from Iowa Organic Association, Roz Lehman, will be talking 11 12 about the community building pillar. The -- Jacqueline Evers from the Illinois Land Connection will be speaking about 13 technical assistance. Marbleseed is going to talk a little bit 14 15 more about the intersection between two legs of OTI, the NRCS 16 Organic Management Practice Standard 823 and TOPP. And then Kenya Abraham from the Organic Association of Kentucky will 17 lead us through some information about mentorship. 18

And then, hopefully, if everything's working okay, we'll have a video of a mentor pair. We're having a few technology issues so if that doesn't work, we'll send it to you afterwards. But then we also have a mentor pair here in person to tell a little bit about their story. Of course, we'll give some opportunity for questions.

25

So, as you probably know, Midwest TOPP is, and TOPP

1 generally, is grounded by five program areas: mentorship, 2 community building, technical assistance, workforce 3 development, and data and reporting. And through these areas, 4 we continue to support farmers as they transition their 5 operations to organic production methods. The Midwest TOPP Minnesota, Iowa, Missouri, Arkansas, 6 region is 11 states: 7 Wisconsin, Illinois, Indiana, Ohio, Michigan, Kentucky, and 8 Tennessee. Was anybody counting? I think I got all 11.

9 Though -- but the work that TOPP is accomplishing is 10 really only possible through the relationships that we've And Cori mentioned the partnerships that we've formed 11 formed. 12 with our other regional leads who are my fan club in the back of the room there. So, shout out to each of the other five 13 14 regions. We have really formed trusting relationships that 15 allow us to have difficult conversations and navigate through 16 program implementation in really creative and collaborative 17 spaces.

Similarly, I couldn't do this work without our
partners in the Midwest. So the way that we started out this
program is we identified a core partner in each of our 11
states, many of whom are here. So if you are a core partner in
the Midwest, if you could please stand for just a moment.
(Applause)
MS. WALENT: So it's these folks, and then, of

25 course, our new emerging deeper relationships with our national

partners. So if you're a national partner, if you could please stand for just a second too.

(Applause)

3

MS. WALENT: But it's really -- it's these relationships that are forming and coalescing that are allowing us to do the really difficult work and reach all communities throughout the United States, not just traditional agriculture, but all historically underserved communities and those that need a little more opportunities put before them.

10 It's also the relationships that go largely unnoticed They're the soft, squishy things that are 11 and undocumented. 12 really difficult for us to report on. But with that, as I said, the Midwest is really a coalition of partners, and on 13 14 this slide you can see who some of those core partner 15 organizations are. But beyond these core partners, each one of 16 these partnerships has an additional somewhere between three 17 and seven partnership organizations that are leading the work in their states and regions. And it's through these 18 19 partnerships that we're able to accomplish so much work in such 20 a short amount of time.

And what exactly is that work? So we're going to look at a few numbers here for those data people. We have 63 matched mentorship pairs, so that would be actually 116 or is that the right math? I'm an English major. Matched pairs, which means we have those folks working throughout the region, bringing in approximately 6,262 acres into organic production. In addition to those matched pairs, those are folks that have signed agreements to work with one another, we have 98 mentors waiting to be paired, and 124 mentees looking for a mentor. So we've got another, you know, about another 12,000 acres roughly in the pipeline for the mentorship program.

7 Since the 1st of January, we've had 44 events. These 8 44 events would be mostly, at this time of year, conferences 9 and workshops, but also webinars and roundtable discussions, 10 and we're just launching into field season, so we'll be seeing 11 a lot more field days and active on-farm events also.

12 Through TOPP, we've supported 198 producers with technical assistance. So, technical assistance defined by one-13 14 to-one organic system planning support, questions about 15 becoming organic or implementing organic practices on their 16 farm. This 198 is beyond the 63. So we -- this is an area of 17 the program that we do hope to grow. And as we continue to define our tracking mechanisms for technical assistance, we 18 19 expect to see a significant growth in this space.

At those events, those 44 events, we have touched 4,847 people, so we're spreading the word of Midwest TOPP and TOPP generally as rapidly as we can, excuse me, at these events and through other avenues. In the Midwest, we've created 61 resources for organic producers. These 61 resources include podcasts, fact sheets, webinars, you name it. And we are

102

actively collecting more and more resources, which can always
 be found on the organictransition.org website, also work by the
 TOPP regional leads.

4 And lastly, the last stat that I want to give today 5 is we have trained 142 organic professionals. So some of this 6 is a result of giving presentations on the Transition to 7 Organic Partnership Program through a partnership with the NRCS 8 and their state training programs. Specifically we did that in 9 Tennessee and Arkansas. But this is also providing support to 10 extension agents and other folks working in the organic community to build their organic acumen as they continue to 11 12 support farmers as they transition to organic.

So, if we look at the number of mentees that we have committed today and those that are in the pipeline, so that would yield approximately 190 farms, and we extend that to the next three years of the program, we really think that we'll be impacting growth in the Midwest region by about 8 to 9 percent. So we're really excited about that.

Our goal is 10 percent. We talk a lot about with our partners what would it look like to increase organic acres by 10 percent when we know that the relative growth over time has been 1 to 2 percent.

And how is all this work getting done? I alluded to it earlier, but it's through relationships and collaboration. It's through relationships with all of our partners. It's really listening and understanding where each of us is coming from. We're creating new jobs, bringing training and community-building opportunities, providing one-to-one technical assistance, and building a network of mentors and mentees. And it's only possible through these relationships that we're able to do so.

And with that, I'd like to turn it over to Roz Lehman
from the Iowa Organic Association to really dive into some of
the work that's been done in the Midwest.

ROZ LEHMAN, IOWA ORGANIC ASSOCIATION

Thank you, Allison.

10

11

MS. LEHMAN:

12 Can you guys hear me? I want to thank you all for 13 your time and leadership to support and strengthen the National 14 Organic Program. The Iowa Organic Association and the organic 15 farming community in Iowa are very grateful for the USDA's 16 increased attention and investment in providing much needed 17 technical and financial support to expand organic across the 18 United States. Forgot about the slides.

Our organization -- our mission is to advance organic agriculture and food systems in Iowa, and we have -- we were established in 2006. We have a very diverse membership, so we're not just farmers. We are a broad group of supporters that includes farmers, farm and food businesses, gardeners, consumers, anyone that's interested in championing the organic movement. And we do this work through a lot of different programs and activities. What we focus on heavily is education, so we're doing webinars and field days, workshops. We're reaching out to students on college campuses and providing the tools and resources and support to -- so they can pursue organic.

We are finally able to add a little bit of additional 6 7 technical assistance to our work through the TOPP program. We 8 were able to hire an organic farm advisor who can provide that point of contact support to farmers looking for information and 9 10 resources on organic. But then, additionally, that organic farm advisor is leading our organic mentorship program. 11 We 12 conduct quite a bit of outreach, whether it's in-person conversations at conferences and events, but we're sharing 13 14 information out like many of our partners do, just through the 15 e-newsletters, direct mail, working through stakeholder partner 16 groups, etc. And then advocacy.

We work really hard to connect policy leaders to organic practices and the benefits of organic and the resources that the Congress and the USDA is providing to the organic community. What's really important for us is to try to get those policy leaders out to a farm and talking to a farmer so they can actually see first-hand what we're talking about.

And then community building, I think, is wrapped up in all of the work that we're doing, especially in terms of the goals laid out in TOPP. It's just -- it's weaved into all of those priorities. But to foster connections, coordinating
 events, and sharing those resources among that community.

And okay. I wanted to give you just a little bit of background on what organic agriculture looks like in the state of Iowa. As of the last census, we -- or the organic survey, we were ranked 6th in the United States in organic production. We are the top producer of organic corn, soybeans, and hogs. Approximately 170,000 acres in organic with 779 farms and 1,000 certified operations.

10 So, community. So, community has been a factor in the growth and success of the organic movement. It provides an 11 12 important source of shared knowledge and experience that is lacking across agricultural sectors. It also provides a social 13 14 connection, creating a space to bring people together with similar goals and passions, especially when the nearest organic 15 neighbor is possibly hundreds of miles away. 16 IOA is working both through TOPP and other initiatives to develop a range of 17 opportunities and resources to expand connections, knowledge, 18 19 and community among a broad group of stakeholders -- diverse 20 stakeholders.

So some of the work that Iowa and IOA has been doing, in collaboration with our TOPP partners, we did launch our organic mentorship work in January. So since January, we've done 25 intakes and interviews. We have six cohorts with eight mentors looking for mentees. So we're busy looking for 1 additional mentors -- mentees to pair with those mentors.

2 We're developing events that are focused on the 3 issues and topics that are important to those folks 4 transitioning, those mentor cohorts. And we're developing some 5 regional opportunities for farmers to coffee chats, to get a 6 regular meeting where they could get together in their 7 community to talk about what's happening on their farms or what 8 they need to succeed. And I would say some of those additional 9 activities, we're doing some technical workshops, and then with 10 our mentorship program, we have established a monthly webinar series to focus on the topics that are important to those 11 12 growers.

We've been actively engaged with the Iowa NRCS office 13 14 over the last couple years. We deliver an annual training to 15 their team leads, talking about the basics of organic, and then 16 we're delving into topics that are important to them in terms 17 of what types of questions are coming into their county offices. And we've also been very helpful in promoting and 18 19 supporting the Organic Management Standard 823. In the state 20 of Iowa, we've had 45 applications for transition applications, 21 and we've had 14 certified producer applications since the 22 start of the program. I have a fact sheet on that about a lot 23 of those details if anybody is interested.

And then the college visits. We think it's really important to be speaking to the students at colleges and

1 universities, just scratching the surface on what organic is. 2 We're talking to students in agriculture, conservation, and 3 environmental courses. Nobody else is talking about the 4 benefits of organic, or what organic is, or what these 5 practices entail. I'm in Iowa, so we have a lot of 6 conventional agriculture, so I think it's a really great space 7 to be talking to the next generation about what organic 8 agriculture can do. So far, we've had 10 visits at the college 9 and universities this spring, and we've reached over 150 10 students.

There is an abundance of untapped organic information and expertise in organic farming communities across the country. IOA and TOPP are collecting and channeling these resources to inspire and encourage greater interest and success in organic production. And we look forward to continuing to provide the support and resources for this growing movement. Thank you, guys.

MS. WALENT: Thanks, Roz.

18

21

19 And Jacqueline Evers from the Illinois Land20 Stewardship.

JACQUELINE EVERS, THE LAND CONNECTION

MS. EVERS: Good afternoon. Thank you all for giving this opportunity to share about our work in TOPP. So, as Allison said, my name is Jacqueline Evers. I'm the director of the Land Connection. We're a non-profit based in central Illinois, and our work primarily centers on providing resources and education to farmers, food businesses, and eaters. And specifically, we do that through farmer training programs, consumer education, food access and food security programming, farmers markets, and farmland access services.

6 So today, I'm here to share about our TOPP work, 7 specifically in technical assistance and workforce development. 8 Those are two areas our organization does not often work in, so we connected with Rodale Institute, as well as the Organic 9 10 Agronomy Training Service to accomplish deliverables under both of those priorities. Under the technical assistance priority, 11 12 Rodale Institute has expanded their organic consulting services Their consulting program is designed to support 13 in Illinois. 14 farmers with a mentor during their transition to organic, who provides on-site consultations, assistance with organic systems 15 16 planning and certification, record keeping guidance, inspection 17 preparation, and more. In quarter one of this year, which is when their work has really begun in earnest, though they did 18 19 support some farmers in quarter four, their two consultants 20 covering Illinois are working with eight farmers to transition organic, and that covers a total of 9,500 acres. 21 Those farms 22 are primarily grain, but two also have livestock. And the 23 challenges the consultants are addressing with that group of 24 farmers include the need to find markets for food grain, 25 organic grain, weed control, disease management, financing,

1 managing their landlords, and tillage usage in an organic 2 system.

The consultants will support those farmers in myriad ways, which could include helping them calibrate equipment, working through their transition plan, planning their cover crop systems, and more. And over the course of this year, Rodale will serve 20 farmers through the TOPP program in Illinois, though they will be building relationships with many farmers beyond that set.

10 The Organic Agronomy Training Service, or OATS, is working on workforce development, and OATS is working to grow 11 12 domestic organic production by strengthening the educational support network of agronomists, certified crop advisors, 13 extension agents, and technical service providers. Their first 14 15 program in Illinois for TOPP was to conduct a needs assessment 16 for agricultural advisor training. The results from that needs assessment will describe the topics, crops, and training 17 modalities preferred by that audience. And though the needs 18 19 assessment has not fully concluded, the early results indicate 20 that the strongest preference for types of training are 21 instructional videos, webinars, and online courses with live 22 video meetings.

23 The strongest interest in topics are annual 24 vegetables and fruits, as well as perennial fruits and nuts. 25 There was a strong interest in every topic related to organic

1 that was listed in the assessment, and those included crop 2 rotations, weed control, cover crops, tillage, fertility 3 management, and transitional support. And finally, within NOP 4 regulatory compliance, those surveyed to date had a strong 5 interest in learning more about allowable and prohibited 6 substances, writing an organic systems plan, and navigating 7 organic certification and inspection. So once completed, that 8 survey will allow OATS to best determine which programs they want to pursue in the coming year for agricultural advisors, 9 10 and then they will complete another needs assessment in 2025 to inform their work in 2026. 11 12 Beyond those two priorities, we're seeing ongoing success with our mentorship and community building programs, 13 14 and we are really excited about the opportunity the TOPP 15 program brings to Illinois for more information and services 16 around organic. So, thank you. 17 (Applause) Thanks, Jacqueline. 18 MS. WALENT: 19 And Lori Stern with Marbleseed. 20 LORI STERN, MARBLESEED Good morning. 21 MS. STERN: Just want to again echo 22 the thanks to the board. It's great to have everybody here in 23 Wisconsin and Milwaukee which is the town of my birth. So

24 thank you for that.

25

Obviously, we're Marbleseed. Cover the upper

Midwest, but I am from Wisconsin. I live in Green County and I just wanted to give a shout out for we are number one in cheese in Wisconsin. So, I know I have an esteemed colleague here from Kentucky, but I would say that we are to cheese like Kentucky is to bourbon, and particularly in the county where I live, so.

All right. So now I have to learn how to work this
thing. Is that what's going to happen next? Is it this way?
The button that's worn down.

10 So many of you may know us as the organization, 11 formerly MOSES. So we are Marbleseed, rebranded, but our 12 mission remains the same. And so I just wanted to give a 13 few -- a little bit about key areas of work. So basically 14 these are areas of work that come out of our strategic 15 planning. So, farmer self-organizing. So we are continuing to 16 be farmer-led.

17 We're thinking about ecosystem services so we love the TOPP work because it's very much partnership-based. 18 So 19 thinking about organic as a system and farming and we're 20 thinking about how we do this work in partnership. Fair trade 21 principles and domestic markets, so interesting conversations 22 about SOE and other things and how do we continue to increase farm viability by doing more sourcing locally and from the 23 24 United States. Access to land and capital is another area that 25 we work. And then supporting local human-scale farm and

enterprises. So again it was great to hear conversation and
 concern about impacts of some of these amazing policy
 initiatives on small farms.

4 So the way that we accomplish this work is very 5 similar to a lot of the other organizations that are involved 6 in TOPP. We have had an ongoing farmer mentorship program for 7 the last 17 years. So it was great, as TOPP came online, to 8 see how it integrated with a lot of the programs that we already had in place. And it was a way to deepen and 9 10 strengthen those relationships specifically around organic Field days, we have the new Farmer U which is kind 11 transition. 12 of a retreat for beginning farmers. Technical assistance in organic transition including information on production and farm 13 14 and business topics. And then, of course, many people know us 15 as the Upper Midwest Organic Farming Conference. We had --16 just had year 35 and we are still the largest organic farming 17 conference in the country.

Did we skip? Or did I skip? All right. Well, we'll 18 19 just qo. There's a slide missing but we'll just keep going. 20 So we also -- I wanted to say that we are extremely committed to doing direct resources to farmers. 21 And so 22 education is so critical. We know that. That is a key part of our mission. But we've also made a commitment to doing what we 23 24 can in terms of finding programs and grants that directly

25 resource farmers. And the TOPP program is a way to do that

particularly as we wander toward conservation as we think about support and transition.

So we have been doing the direct resources to farmers through our Wisconsin Local Food Purchase Assistance program. We've done farmer mini-grants, supporting farmer incubators and then, of course, increasing access to conservation programs specifically for organic. So this slide basically shows kind of here, the farmer education pieces that we do. Then the mentorships, obviously one-to-one relationships.

We've also, after 17 years of doing mentorship
programs have recognized that a lot of the time mentors are a
resource for accessing other USDA programs which also fits
really nicely with TOPP, again as we move toward thinking about
how conservation can support that organic transition period.

And so, NRCS staff training, we've been doing some of 15 16 We have -- obviously we're number two in Wisconsin for that. 17 organic farms and so we have a very supportive NRCS at the state level. They fund a position that sits in our 18 19 organization but actually has an NRCS computer and that's Tom 20 Manley. He is in the room so if anyone has NRCS-specific questions, you can ask Tom. But it's just been incredibly --21 22 it's been amazing to have that partnership with our state 23 office and recognize how important they see organic expertise 24 is, even beyond TOPP. So we were really ready when TOPP came 25 on board. And then obviously one-to-one farmer support on

planning activities. Tom's role is really about supporting NRCS staff but in that support and developing the case study, some of this is coming out of his work as well, is working oneon-one with farmers and kind of demonstrating how that work happens.

6 And then, oh, that's what happened. So that slide 7 there. Wave at the farmers from LFPA.

8 So, ultimately, we want to nurture farmer heroes to 9 grow and build our food system. We're very much -- we also do 10 some work in Climate Smart. We have a staff member at that 11 meeting right now in Nashville. But recognizing that organic 12 is Climate Smart agriculture and doing what we can to do due 13 diligence in supporting that message.

14And I think Allison had asked -- we just got out of15order I think. No. Should I just keep going?

16 All right. I'm going to try and read from my notes 17 here just because there was a question about historically underserved and particularly, NRCS. And so as I looked at the 18 19 data coming into this meeting, obviously it's been mentioned 20 that there's variability across the country in terms of working with NRCS and particularly around OTI. We have a huge 21 22 commitment to really working with historically underserved 23 producers.

We've got a mentor pair right now that are both native Hmong speakers and a field day that is planned in Hmong language. We have a lot of Hmong farmers in Wisconsin that are
 interested in organic transition.

So I -- it was exciting to see as I looked at the 3 4 data, at least with NRCS, that Wisconsin and it has a pretty 5 We're ranked 10th in terms of EQIP applications and high rate. 6 those that are funded and as we think of EQIP as NCSP, again 7 prior to OTI, as ways in to NRCS. Particularly for organic 8 farmers, that was nice to see. And it looks like historically 9 underserved in Wisconsin, at least NRCS programs, 20 percent of 10 those successful applicants are from historically underserved So I think that was a question that people were 11 communities. curious about. And we're really looking forward to how this is 12 going to roll out, the interaction with NRCS for OTI to be 13 14 successful in supporting farmer transition. So, thank you. 15 (Applause)

16 DR. TUCKER: Allison, can I just jump in really, You know, I realized before when I was talking 17 really briefly? about NRCS that because we do get, you know, so many concerns 18 19 about it, I did kind of focus on the fact that there are people 20 out there who don't know organic or aren't pro-organic or 21 whatever. But there are also some NRCS folks out there doing 22 really, really good work and I do want to make sure that we in 23 the program acknowledge that. That we all tend to focus in on 24 what's -- you know, where the challenges are and that's a 25 challenge that I know a lot of public commenters brought up.

1 But I do think there are regions where those bridges are 2 getting built very nicely. So, yeah. 3 MS. WALENT: Thank you. Thanks, Lori. 4 Kenya from Organic Association of Kentucky. 5 KENYA ABRAHAM, ORGANIC ASSOCIATION OF KENTUCKY 6 7 MS. ABRAHAM: Good morning, everyone. My name is 8 Kenya Abraham, and it is with gratitude that I present this 9 piece of the TOPP initiative, the Organic Mentorship Program. 10 On a personal level, I can speak to the benefits of mentorship and how it can bring equity through workforce 11 12 development. Oh. Please, when I tap the table. I sit before you today as the Organic Transition 13 Program Manager at the Organic Association of Kentucky because 14 15 of my time as an organic inspector. And during that time, I 16 had three amazing mentors, one being Nate Powell-Palm, Garth Hall, and Andrew Black. And because of that, I've taken 17 opportunities to continue on to my path into this industry. 18 19 The mediocre mentor tells. The good mentor explains. 20 The superior mentor demonstrates. And the greatest mentors 21 It's no wonder that mentorship is the cornerstone of inspire. 22 the TOPP program. And on January 18th -- I'm sorry, I'm having 23 trouble with my notes. Okay. 24 On January 18th, OAK kicked off Kentucky's TOPP 2024 25 cohort with 12 mentorship pairs. Our pool of mentors are

certified organic rock stars like Mac Stone and Jesse Frost and many others who have stepped up to the plate. Most of my mentee farmers are in their third year of transition, and they're mostly ready to work on their OSPs.

Having a good coach and a support team through this process makes a difference in how things are going to turn out. I can say that all of my mentee farmers are worthy of mention today, all of them. However, I'm only able to highlight a few. They gave me five minutes, so hang in there.

10 We're going to go with March Magic and Brian and So, last month, I embarked on a journey to South 11 Elizabeth. 12 Central Kentucky to check in with two mentee farmers while being hosted at the Farm Repair Organic Mentor, Robin Virgin. 13 14 The mentees came prepared with an array of questions. The mentor was informative with her work demonstrations and they 15 16 were inspiring. The mentorship visit did not fall short on the day's logistics, which included a fantastic farm tour and lunch 17 with neighboring, long-term organic farmers. 18

While lambing season may feel much like March Madness on some sheep operations, I've been there, I've been one of those, these mentee farmers experienced March Magic when they were at these farms. I was able to note that the TOPP mentor was able to coordinate a visit that spent time putting the transitioning farmers and needs into perspective. She offered feedback and she served as a sounding board. The mentor also identified other expert farmers that these mentees could connect with and activities they could engage in to help them identify small ways to position their work and meet their goals. This mentor also shared relationships, resources, and she worked together with them on their OSP. These mentees are off to a great start in year one of their organic transition.

8 Next we'll go through the fire with Denise. I heard that April showers bring May flowers, but in Kentucky, it 9 10 usually brings really bad storms and hardships. Just two weeks ago I had a mentee email me that her barn had caught fire. 11 12 That she had lost everything, her new well-pump house, materials, poultry, her beloved dog and its puppies. 13 She was 14 just completely devastated. She said in her email that she 15 didn't think she would be a good fit for this program anymore, 16 that she just felt like quitting. She's precisely in the third year of her transition and right now is like the best time, the 17 most time that she's going to have to -- it's critical for her 18 19 to push harder. Her mentor, Maggie Wilder, is coaching her 20 through what the song says, down to the wire, even through the 21 fire.

Denise is pushing through what many would see as their limit. Transitioning often involves more than just converting acreage over on OSPs. It comes with challenges and hardship. In this role, we're finding that our work can be 1 vital to the life of the farmers. Next, please.

And next, we're going to be juggling with Jessica. There are also the mentees who are like what I call in between, because financially they lie in between two extremes, and I mean in terms of like state and time. It's a constant juggling act of resources for help, as often there's more month for them than there is money.

8 So this is Jessica, our mentee, who was presenting 9 about her farm, and also about being a TOPP mentee at Kentucky 10 State University at an event. And that's her high tunnel that 11 earlier on, that first picture, she was using for storage 12 mostly, and now she's converting that high tunnel to a 13 certified organic operation.

14 It's been an honor to juggle with farmers like 15 Jessica, who have needed help with technical assistance from 16 our team and management plans and record keeping and more. 17 I've witnessed the changes and the progress happening on our 18 mentors' -- mentee farms, and in this mentorship program, we're 19 committed to supporting the mentees and helping through each 20 part of this process.

And I've told you what I see on these farms and in this program, but now I will tell you what I don't see enough of. And that's equity with BIPOC farmers. Most Kentucky black farmers are not participating in the TOPP program. The USDA will need to take many steps to restore the condition of black

1 farmers before we can even expect for this to happen. 2 So, therefore I'm very proud -- I'm so proud to be 3 able to say that I do have Ms. Evelinia (phonetic), one farmer, 4 Ms. Evelinia, enrolled in our Kentucky TOPP program. We can 5 talk more about that later in the questions if you guys would 6 like. That's all. 7 MS. WALENT: Thank you. 8 MS. ABRAHAM: Thank you. 9 (Applause) 10 MS. WALENT: Thanks, Kenya. With luck, our video will play, highlighting our 11 12 mentor pair from Iowa. (Video recording played; transcribed as follows) 13 WENDY JOHNSON, JOIA FOOD FARM 14 15 BOARD MEMBER JOHNSON: Hi. My name's Wendy Johnson 16 and I own and operate Joia Food Farm here located in northeast 17 Iowa. This farm is a perennial-based farm where we grow organic grains, graze sheep and cattle, and poultry, and grow 18 19 fruit and nut trees, raise some pigs, and feed our local and 20 regional communities with healthy food. We believe that food 21 should be chemical free and raised humanely and so we started 22 our food farm and transitioning to organic in 2014. 23 I grew up in Iowa on a conventional corn, soy, and 24 hog farm in the 1980s. I really didn't see farming as a path 25 forward for me. My experience from that era actually helped

1 motivate me to move as far away as I could from Iowa. And so 2 after college, I moved to Los Angeles, California, where I 3 started a career in the fashion industry.

But unbelievably, while I was there, I learned about our food system, about how chemical dependent our food system is, and how inequitable it is. And I started growing my own food, cooking more and more, and learning about the power of community. And so I decided I wanted to grow food at a different scale, and more than just for myself, but for others. And I had this really great opportunity to farm in Iowa.

So I moved back in 2010, and that's when I started my 11 12 I spent the first few years learning from my farming career. dad how to grow corn and soybeans conventionally. And once I 13 had that baseline, I reached out to organizations in Iowa that 14 15 had organic farmer members to learn from them. And those 16 initial farming mentorships were invaluable to my farming I had mentorships from organizations like MOSES, now 17 career. Marbleseed, and Practical Farmers of Iowa, which also opened 18 19 opportunities for learning from many other farmers through 20 field days and workshops. And that's when I realized that then I was part of a community of farmers, something that I felt was 21 22 missing in the conventional world.

23 So I wanted to be a TOPP mentor, excuse me, to 24 provide the same kind of support that was given to me when I 25 first started organic farming. Farmer-to-farmer learning is an

1 incredible way to learn. And to have that one-on-one with --2 for conversations and ability to ask those questions, it's that 3 experiential time of making mistakes, knowing that those 4 mistakes are completely normal and are part of the learning 5 But having a mentor to talk things through with experience. 6 and ask questions and provide support, I think is incredibly 7 essential. So when I learned about the Transition to Organic 8 Partnership program, I applied right away to not only give 9 back, but also help grow the organic movement and support the 10 next generation of organic farmers and growers, because the 11 world needs more farmers.

JEAN WIEDENHEFT, INDIAN CREEK NATURE CENTER

12

Hi. I'm Jean Wiedenheft, Director 13 MS. WIEDENHEFT: 14 of Land Stewardship at Indian Creek Nature Center in Cedar Rapids, Iowa. 15 I've been with the Nature Center since 2001, and 16 I became a farm manager back in 2016. The Nature Center focuses on ecological health of land and educating others on 17 ways people can live more sustainable lives. So the principles 18 19 of organic farming that focus on soil health and reducing 20 harmful chemicals are integral to our mission as an 21 organization. And transitioning the total acres away from the 22 corn and soybeans to healthy foods people can actually eat is 23 also integral to the mission.

Last summer, my farm manager, who was overseeing the organic acres, told me it was time to take the last of the 1 conventional acres over, and I agreed, but I totally lacked the 2 knowledge of what to do with those acres and how to do it. So 3 the Iowa Organic Association and our mentor, Wendy, from Joia 4 Food Farms have been wonderful. It's still very early on in 5 the mentorship, but knowing that I have someone I can just ask 6 questions of is very reassuring and gives me a great deal of 7 peace of mind. I'm really grateful to the program, and I'm 8 looking forward to everything else I can learn.

9 Then we want to share our experiences with others to 10 support their understanding of healthy food choices, smart 11 growing decisions, and anything that does not include dicamba. 12 So thank you for your time today, and inviting us to 13 participate in this.

HARRIET BEHAR (MENTOR), REAL ORGANIC PROJECT
MS. BEHAR: Okay. Hello, everyone. I think a lot of
you know who I am. I'm Harriet Behar. I have a farm near Gays
Mills, Wisconsin. We are incredibly diverse. Plus, I served
on this board.

I've been an organic advocate. I've been an organic inspector since 1992. Some of you people weren't even born yet, and I've been on thousands of organic farms. And my poor husband, when we go on vacation, I, like, drag him to organic farms wherever we are because I'm so interested in all of the entrepreneurial activities that people do.

25

So, on my own farm, I grow vegetables and tree

1 fruits, and we have poultry. We grow a lot of our own cover 2 crop seeds, so we have a combine. And so when the TOPP 3 Mentoring Program came open, I thought, well, I have so much 4 experience, I would love to share it. And I love to help 5 people problem solve, and as an organic inspector, be a 6 resource of resources. So I approach mentoring as a way to be 7 a mirror to the person, and kind of question some of the things 8 that they might want to do.

I have a very enthusiastic mentee, and he's got big 9 10 But the other thing, too, is I think it's really plans. important, rather than me just giving my opinion on something, 11 12 but to also provide information and help the mentee figure out their own problem solving so they can be empowered in finding 13 14 their own answers. It has been really exciting working with 15 Nick and Betsy, and their goals of feeding their community and 16 educating their community about farming, and organic in particular, is really a big bite to chew. But I have no doubts 17 that their enthusiasm will carry them through it, because any 18 19 of us who are farmers, we know we don't do it for the money. 20 We do it for love. And so they -- they're coming to their farm 21 dream with the right attitude.

NICK STAPLES (MENTEE), CELLANIE FARMS)
MR. STAPLE: Thank you, Harriet. Thank you to the
Board. My name's Nick Staple. As Harriet mentioned, we have a
farm in the Madison, Wisconsin area. We are brand new farmers,

and so it's quite an honor to be here with the luminaries of
 the organic world. So thank you very much for inviting us.

Our farm plan includes a vertically integrated food 3 4 We have acreage just outside of Madison, Wisconsin in hub. 5 suburbia, and in fact, we acquired those acres just last year. Staved off single-family development to bring a pocket of 6 stillness to suburbia, and offer an opportunity for younger 7 8 children, the ages of mine, five and six, to know what a carrot actually looks like when it grows in the ground. 9 That was one 10 of the eureka moments that we had, growing food in our garden and having kids come over and say, wow, that's what a carrot 11 12 looks like. Or, you know, parents of those children say, my kids only eat vegetables when they come from your house. 13

So that's what we're doing in Madison, Wisconsin. 14 We have big aspirations, as Harriet said. Farm, market, store 15 16 with aggregation celebration events, farm-to-table dinners. We've been integrating ourselves with the local high school to 17 talk about youth apprenticeship programs and plan on offering 18 19 summer camps as well. The mission of Cellanie Farms is to 20 return people to the land from which their food is grown. And because our acreage sits right next to suburbia, I think we 21 22 have a nice opportunity to do that.

23 We're not seasoned farmers, as you probably imagine. 24 I have a confession to make, and it's that I spent the last 20 25 years in pharmaceutical development and had actually done crop residue testing studies for Syngenta. So I hope that this
 group can appreciate that me admitting that is like confession
 at the Vatican. So, thank you.

But we are nestled in suburbia, and we're very excited to kind of bring that, you know, pocket of stillness like we talked about to the local community. For farms like us and farmers like us, which again is a new term, you know, we don't have the generational transfer of knowledge that I think was germane for a lot of people who grew up 30, 40, 50 years ago.

Myself, I'm one generation removed from my
grandfather's dairy farming operation near Green Bay,
Wisconsin. And we lost those opportunities to pass along this
knowledge. And so, Harriet, you're incredibly important to us
as a friend and mentor because you are a link for us to that
way of farming. And we just really appreciate all of the help.

And Harriet has been great. I, you know, I think we have a really nice back and forth. You know, she challenges me in ways of thinking and not what to do, but maybe how to approach a problem. And so that's been really helpful. So thank you all.

MS. BEHAR: I just wanted to add too that I have helped Nick navigate some various government programs as well. And I think, Nick, that when you go into the NRCS office, the next time to apply for 823, I'm going to go along with you.

1 Well, thank you to our mentor and MS. WALENT: 2 mentees, our -- my Midwest core partners. And thank you all 3 for really allowing me the privilege to do the work of a 4 lifetime. It's a great honor. So with that, I'd like to open 5 up for questions. 6 A&Q 7 I see Nate, and then Jerry, and CHAIR SMITH: Okay. 8 then Allison. And I'm just going to say, if you have questions, Allison's going to, I think, field them. But also, 9 10 if you have questions for any of the other speakers, I think 11 the speakers are then -- are going to go to the podium to answer the questions because there's a mic there. 12 So if you 13 have, please say who you're going to ask your question so they 14 can get to the mic. 15 Okay, Nate. 16 MR. POWELL-PALM: Great presentations, and forgive me So the first one is a 17 now because I have three questions. 18 question for Nick. I imagine that your mentor is in the 19 greatest category, but can you verify that for the record for 20 me, please? 100 percent certified, yes. 21 MR. STAPLE: Great, thank you, Nick, appreciate 22 MR. POWELL-PALM: 23 I think maybe this is a question for Allison or anyone who it. 24 wants to respond. 25 Some of the work I've done in the Midwest around

incentivizing or growing grain production has focused on the lack of processing and storage infrastructure for grain. Is there any part of the mentorship/mentee program focused on transitioning facilities to organic, or is that a phase two, or is that something that's being kicked around in the discussions?

7 That's a great question. Certainly, MS. WALENT: 8 access to markets and processing is a constraint to organic 9 grains entering the market here in the Midwest. The priority 10 of the program is for transitioning producers with a secondary look at how do we support markets. Certainly, there are a 11 12 couple of awards that came through the organic market development grant side of OTI that are geared towards 13 14 developing organic grain markets. And one of our core partners 15 is OFARM, which is a collection of cooperatives that are 16 supporting access to grain markets for our transitioning 17 producers.

MR. POWELL-PALM: That's really encouraging to hear.
And then my last question's for Kenya. I would love to hear
Farmer Evelyn's (sic) story if you don't mind taking a little
bit to share that. Thanks.

BOARD MEMBER JOHNSON: Can I add my question on TOPP because it's also for Kenya and related? Kenya, thank you so much. I'd also love to hear it. You mentioned that most Kentucky black farmers are not participating. And if you could 1 speak to that more.

MS. ABRAHAM: Certainly. Evelinia -- Ms. Evelinia is what I call her. She grew up as a sharecropper's daughter and she's purchased a few different properties in Southeast --South Central Kentucky, and has had many challenges with, you know, NRCS and doing certain things, but does everything she can to educate herself and organic practice is very important to her.

9 However, building trust in this -- with this industry 10 is necessary. She trusts me. And so, therefore, she's, you 11 know, willing to cross the bridge.

Other Kentucky farmers, and I'm very well linked in to the organizations that are, you know, BIPOC-centered in Kentucky. I'm a farmer liaison and so I have constant contact with, you know, most of them. I'm trying to gain the trust to do partnerships even with the organizations that are black farmer-led in Kentucky. They trust me. I'm a member of their organization.

However, their relationships with not just the organic industry, but the agriculture industry as a whole, there needs to be some bridges and buildings to repair the -when I say repair or restore, I'm talking about the condition of the black farmer. You can ask me to join your program or be a part of it, but I'm sitting here wearing a pair of flipflops, farming in them, and I've got hospital socks on underneath them, you know, and I don't have my boots necessarily.

And that's the condition of the black farmer in 3 4 Our boots have been taken from us, from the back of America. 5 our ancestor. And so I'll just say it, this USDA would not exist without the back of the slave in America. 6 You 7 wouldn't -- we wouldn't have what we have without that. And so 8 there has to be some restore and repair to the condition of black farmers, which is outside of the parameters, obviously, 9 10 of this program. I'm not asking you all to step up and do this. 11

12 However, you have to bring it. You have to care 13 about it. It's got to be important to you, to the USDA. I'd 14 love to say take me to your leaders, because that's really 15 what's necessary in order for what has to happen to restore the 16 condition of black farmers. And if that would happen, and it 17 would bring about then access to organic markets for black farmers, it would bring a change in what we're calling food 18 19 deserts, which are really food apartheid in America.

And so it's a lot of work. It's just -- it's outside of really what this program can even offer. However, that's the lens that I can speak to, because that's what I want to deal with. I hope I answered your question. Thank you.

CHAIR SMITH: Jerry, please go ahead.
MR. D'AMORE: This is a hello to Harriet. She won't

1 remember this, but you were the very first person that I called 2 to get my feet on the ground and get grounded when I joined the 3 board. And it was your even-keeled conversation that lasted a 4 good hour with not only wisdom, but an open mind that was 5 helpful for me getting started. So thank you. 6 MS. BEHAR: You're very welcome. 7 That's what you do, right? MR. D'AMORE: 8 MS. BEHAR: That's what I do. I -- I've always been 9 -- when I worked at MOSES, I spent a lot of time on the phone 10 talking to people and helping them really find their own way, because I'm not going to be there the whole time. 11 And also, too, everyone has their own excellent perspective to bring to 12 13 the conversation. MR. D'AMORE: 14 Well, may you outlast me. I wish you 15 that. 16 MS. WALENT: Allison, please go ahead. 17 BOARD MEMBER JOHNSON: Yeah, thank you. This is fast becoming my favorite part of these meetings, too. 18 It's just so 19 inspiring to see how much has come together in such a short 20 And I was sitting here doing your math, Allison, like 44 time. That's two a week. And if you think 21 events since January. 22 about the exponential growth of this, if this is happening in 23 six regions across the street -- across the country -- across 24 the street, for five years and potentially beyond, it -- it's 25 really exponential potential growth. And I'm thrilled to learn 1 about it in each region that we visit.

And one logistics question. I think Roz mentioned the fact sheet. If you can send us that fact sheet, we would love to see it about the applications for transition and certification so far.

6 And then I'm curious to hear from Allison and anyone 7 else who might want to speak to it: how you're reaching 8 conventional farmers specifically. This is something that's been brought up in the context of our transition proposal. 9 10 There's a lot of great work, I think, sort of pulling in people who are almost there already. And I'm curious to hear 11 specifically how you're reaching those conventional producers 12 13 and sort of bringing about a systems transformation in the way 14 that they farm.

MS. WALENT: I'd invite any of my partners that would like to come up to answer that, but I can take a stab while you're on your way.

So, you know, the program rolled out very quickly. 18 19 Very quickly. We were really targeting to launch mentorship, 20 March, less than six months after we all came together and signed our agreements with the National Organic Program. 21 So 22 our focus is really on, initially, on how can we get some quick 23 wins and start gaining some momentum for the program. And we 24 have conversations on a regular basis on how we're going to go 25 outside of what our normal operating procedure is to reach

1 those conventional or traditional-minded farmers.

Some of that is going to shows and conferences that are not our typical. So, of course, of those 44 events, we were at Marbleseed and the Organic Grain Conference in Illinois. But we also went to Pick Tennessee, which is a more conventionally-minded conference.

7 So that's one way, but then our partner in -- where's 8 Brandon? OCIA is doing some advertising on behalf of all of 9 TOPP, through Acres (phonetic), which is a mixed organization. 10 So certainly, we don't have a clear communication formula for 11 that in this moment, but we acknowledge that we need to, and we 12 plan to, in the next phase of our program, to reach out to 13 those audiences.

14 MS. LEHMAN: So, in Iowa, we've used just a range of different outreach and promotional techniques. 15 So your 16 traditional, using your e-news, going to the conferences and 17 different events of our partners, and we do have a strong agricultural network in Iowa. But it is looking outside, like 18 19 PFI, that's a great resource that we, those, what I would say, 20 farmers that are on the fence or organic-curious, those might be the first folks that might be interested in reaching out to 21 But I think it's important to just be that space in the 22 us. 23 In a lot, I can't speak for a lot of states, I quess, state. 24 but it's just like, where could folks turn 10 years ago? Who 25 could you pick up the phone and call? So just being there and being able to answer those questions with the organic farm
 advisor position is huge.

But even getting outside of agriculture, in a 3 4 previous life, I had worked for a ballot amendment issue, and 5 one of the things that we -- we wanted to increase funding for 6 natural resources. So we were talking to conservation groups. 7 We were talking to sportsman's groups, like Pheasants Forever, 8 Ducks Unlimited. These folks also have a vested interest in 9 what is being done on the land, in terms of what they're 10 interested in. But then we have rotary groups. Just how can we touch different people in the community that also 11 understands or knows people that are farming, or cares about 12 where their food's coming from? 13

So for me, that's the next step in the work that we're doing, is getting outside of the farming community and just sharing about organic and what it is. And that way, when they are talking to a farmer, they can share about the resources that we're doing. So it's finding some nontraditional networks to try to connect with.

20 CHAIR SMITH: Before you leave, I think my question 21 is for you. Thanks for this fact sheet. And we have heard a 22 lot through public comment that NRCS program is -- there's some 23 struggles and some challenges. And it sounds like from some of 24 the numbers that you shared, that at least in this region, 25 there's some progress being made. And so I just wondered if you had any best practices or guidance that you could share with us all that, I don't know, some learn, that they could, you know, take from that and apply that in other parts of the country.

5 Well, ideally, as you all know, it would MS. LEHMAN: 6 have been nice to have a good six months or a year to roll out 7 this program and have some training behind it. But one of the 8 things I mentioned in the fact sheet is, is we kind of just, our office was just ready to roll it out. So we did not want 9 10 to not be a part of that. So it was making sure that we had farmers, our board members involved. 11

12 So when farmers called us to say what's going on with this, or I'm not, my office doesn't know about it, we had a 13 14 little bit of insight to what we could expect. And from there, we were -- and there was a lot of pushback. So folks would be 15 16 sent away from the office and we would kind of serve as a Let's work on this together so we can figure out --17 liaison. that really helped educate the offices. They don't have that 18 19 organic knowledge and background.

So for us, we just jumped in with our feet first and we kind of piloted it and we were seeing what worked and what hasn't. And that has created our offices -- oh, their ears opened to hearing about what's working and they have started to modify some of the, I guess, requirements in our standard, not huge, but it's just opening those lines of communication, 1 encouraging, promoting.

Folks didn't know about it. We talk about it all the
time. So I think that's really the result of that success.

4 CHAIR SMITH: Okay. Thank you so much. Dilip has a 5 question.

Thank you, Allison, for this 6 BOARD MEMBER NANDWANI: 7 good presentation and all of your speakers. You know, the 8 easiest part of not only this TOPP program and also with 9 Climate Smart and RCS having participating in these two 10 And also, thank you for a little bit clarifying why programs. Tennessee and Arkansas is part of Midwest, rather, I think, 11 conventionally or historically, they are part of Southern 12 So there has to be good reason and thank you for that. 13 region.

So the quick question I have, kind of, and part of that has been answered by your speakers too. This is on mentor-mentorship program. Obviously, there are more mentees rather than mentors. So let's say, I think, in other regions too, other region and maybe other states, too. Like in Tennessee, we have 45 mentees and maybe five mentors.

So how do you connect mentee and mentor? And can a mentor have more than one mentee, like three, four, five, maybe? And some challenges, I know some of the speakers, they mentioned that challenges in, you know, this program, but do you consider, like, how far they are located, the size of the farm? Do you do virtually or in-person? Those kind of things, if you can a little bit add into that. So as we are rolling
 next year into this program, that will be helpful. Thank you.

Sure, so I'm going to tag on to 3 MS. WALENT: 4 Allison's previous question and then answer yours, Dilip. I do 5 want to acknowledge, so states like Arkansas and Tennessee have 6 much less mentorship happening currently because of their 7 current state and knowledge of organic agriculture. So when 8 you talk about reaching conventional audiences, how are we 9 doing that? In Arkansas and Tennessee, we've taken this first 10 year as an education approach. How do we spend more time educating NRCS staff, extension staff, farmers? How do we, you 11 12 know, entice them?

And, you know, Arkansas specifically has a serious 13 interest in organic agriculture in the Delta region and they 14 15 are threatened profoundly by dicamba drift. So this is a 16 challenge that we have in that region. So, and then in regards 17 to the rolling out of the mentorship program specifically, as I said before, there are five main program areas and mentorship 18 19 was one of the programs that we received guidance from the NOP, 20 that they really wanted to see some consistency across the six regions and how that was implemented. So the six regional 21 22 leads worked extensively on designing the rollout of that 23 program.

24 So yes, there is -- you know, we strive to have one-25 to-one mentorship. We -- and there are a few nuances between all of the regions, but we do try to keep the mentor and mentee pair within a couple hours of each other. The goal is that they would visit each other's farm at least once during their mentorship period. There is a step up so that there could be -- one mentor could mentor multiple mentees and there's also a group mentorship model. So all of those are lined out programmatically and then applied appropriately.

8 In the Midwest, you know, 11 states and we cover a 9 lot of geography and I've really leaned heavily on our core 10 partners to implement that. So we do have a monthly mentorship 11 subcommittee meeting that has talked about implementation and 12 over the last couple of months we haven't been meeting because 13 of all the events, but we will and support each other as we 14 roll out mentorship in Tennessee and Arkansas.

15 BOARD MEMBER NANDWANI: Thank you.

16 CHAIR SMITH: Amy, please go ahead.

VICE-CHAIR BRUCH: Yeah, thank you, Kyla. Thank you for this wonderful insight to how the TOPP program's being executed in the Midwest region. I just feel like it was a very high-octane delivery because transition isn't easy and so this was really inspiring.

I wanted to say thank you to Roz and the Iowa Organic Association. I'm not a part of the Midwest region. I'm a part of the Plains, but I did tap into some of the information you guys were circulating for the OTI 823, so that really helped 1 farmers in the Plains region. So those best practices and 2 sharing between the regions, I want to highlight that that's a 3 real important feature of the TOPP programs.

4 Wanted to ask, when we look at the success that's 5 happening behind TOPP in these regions of recruiting new producers in the transition, do we need to start thinking of 6 7 potentially a part two for retention of these new producers? 8 Kind of TOPP part two and looking more formally at markets and crop insurance, et cetera? Do you think that would be 9 10 beneficial? Is that something we need to, as an organic community, be thinking of in the queue? 11

12 MS. WALENT: Absolutely. I've been thinking a lot about part two of TOPP, the last -- particularly the last few 13 14 Certainly, we have a lot of conversations within our weeks. 15 networks about, you know, we can provide mentorship to 16 transitioning producers. We can identify producers -transitioning producers, but if we don't also focus on market 17 development and access to markets, we are, you know, really, 18 19 quite honestly, dead in the water.

And then the other thing that I'm thinking about quite a bit, and we are only, what, 18 months into the program of a five-year program. But I do think we need to start thinking about what the transition at the end of the program looks like. As we're bringing farmers, you know, we have farmers that are coming in that are a year away from 1 certification and maybe some that are three and four years away 2 from certification, and so what does that cliff look like?

And in particular, as we think about racial equity and inclusion, I think that we would really do ourselves a disservice to not consider what the end of that program looks like, and lead folks who have a history of, for all really very good reasons, lack of trust with the USDA and the federal government, and then to almost abandon at the end of the five years is, to me, a huge threat to the success of TOPP.

10 So, yes, I do think we should be considering the 11 transition and a part two, and I also think that, you know, 12 really working together under OTI to develop markets and 13 support farmers is certainly necessary for the success of this 14 program.

15 CHAIR SMITH: Thank you. Okay, one more from16 Allison.

I know TOPP 17 MS. WALENT: Sorry, I can't resist. funding doesn't allow you to come here and do advocacy, but no 18 19 one's stopping me. So just a plug that the farm bill is being 20 debated hotly right now. The potential to continue funding for 21 things like TOPP is on the table, so really encourage everyone 22 in the room to be showing up in Congress in addition to here. 23 Thank you.

CHAIR SMITH: Thank you so much, Allison and
everybody in the Midwest region. You guys are doing incredible

1 work out there, and it's really inspiring to hear. 2 This brings us to lunch. We are still running Okay. 3 a little behind. I'm going to shorten our lunch just a teensy, 4 teensy bit. Be back 2:15, and we will resume our programming 5 with public comment. 6 LUNCH BREAK 7 CHAIR SMITH: Okay. If everybody could please take 8 their seats, we're going to get started. Welcome back from We are going to have the remainder of our day filled 9 lunch. 10 with public comments. So this is new and it's exciting. I would like to start with a few reminders, once the 11 12 No, I'm waiting for Andrew to put the slide up. slide goes up. Okay. Just a reminder that there is a policy in the policies 13 14 and procedures manual about public comments. It is displayed on the screen. 15 16 All speakers who will be recognized signed up during 17 the registration period. Persons must give their names and affiliation for the record at the beginning of their public 18 19 comment. Proxy speakers are not permitted. Individuals 20 providing public comment shall refrain from making any personal 21 attacks or remarks that might malign the character of any 22 individual. 23 Members of the public are asked to define clearly and 24 succinctly the issues that they wish to present before the

25 Board. This will give board members a comprehensible

understanding of the speaker's concerns. I will call on speakers in the order of the schedule and will announce the next person or two so they can prepare. There is an on-deck chair at the front of the room so you can make your way to that on-deck chair.

Then you will come to the podium. There is a timer on the podium alongside with -- along with the slide advancer if you have slides. Please remember again to state your name and affiliation and then we will start the timer.

When you are done, please stay at the podium for a moment so I can see if there's any questions from the board. And again, we're trying to manage board members in the room and board members on Zoom, so we'll just pause for a moment.

Board members, raise your hand if you have your actual hand, not your Zoom hand, and I'll keep a queue and we'll call on you in order. Only NOSB members are allowed to ask questions.

18 Our first speaker will be Rhodes Yepsen, followed by19 Sal Pinkman and then Michael Kratzer. Rhodes?

20

25

PUBLIC COMMENTS

21 MR. YEPSEN: My name is Rhodes Yepsen, Executive 22 Director of BPI. My comments will be focused on the petition 23 for rulemaking that BPI filed with USDA last fall on 24 compostable products and compost manufacturing.

BPI is North America's leading authority on

compostable products, representing the producers of these materials as well as those composting them. We've also submitted a letter to USDA requesting legal clarification on whether the National List can be used to approve compost feedstocks or not.

Earth Day was last week and the 2024 theme was Planet vs. Plastic with a focus on three things: reducing health risks, demanding change, and pioneering innovative solutions. Compostable products are a prime example of all three.

10 California is demanding change and has brought this issue of innovative compostable solutions forward, passing laws 11 12 for mandatory statewide food scraps collection and laws requiring all packaging to be reusable, recyclable, or 13 California has also mandated that compostable 14 compostable. 15 packaging be an allowable input under the organic -- under the requirements of the National Organic Program by 2026, around 16 the corner. This law is based on the discontent that 17 compostable products, including those used by the organic 18 19 industry itself, are causing finished compost to be disallowed 20 from use in organic agriculture, causing problems for the 21 entire composting system, as you heard on the webinars from 22 cities like San Francisco.

Look to organic brands, organic co-ops, farmers markets all around the U.S. to see that the organic community has been an early adopter of compostable products, choosing these items to move away from single-use items. The disconnect is coming to a crossroads where these organic markets and brands will soon lose the option to package and serve their food with compostable products in California. Even simple things like a compostable fruit sticker or food scrap collection bag will be disallowed in 2026 if we don't act.

7 Make no mistake that the climate emergency is in part 8 being created by our consumption habits around food and 9 packaging. Recent satellite imagery shows that landfill 10 methane emissions are far worse than reported, with many landfills meeting the super-emitter threshold set by EPA for 11 12 the oil and gas sector. Last week, the U.N. negotiations for a global plastics treaty met in Canada for INC-4 to stop the 13 14 proliferation of conventional plastics.

The ASTM standards for compostability are well-15 16 established and rigorous, with built-in mechanisms for 17 continual improvement. We appreciate the NOSB creating the space for discussion around composting at this meeting, and we 18 19 encourage the USDA to start the rulemaking exercise this spring 20 to ensure that the regulations on compost production are updated to be clear and sound, aligned with our collective 21 22 goals of reducing waste and identifying climate-smart 23 solutions. There is no time to wait.

24 CHAIR SMITH: Questions from the board? Oh, sorry.25 Oh, I see Allison.

145

BOARD MEMBER JOHNSON: Thanks for your comments. I've been trying to piece together all of the moving parts of this puzzle, and I've been having trouble tracking down the requirement that California compost be organic-compliant starting in 2026. Do you have a site that you could pass along to us, or is it in your written comments?

7 MR. YEPSEN: Yeah, so the requirement is in the 8 definition of the plastics-labeling bill that requires a 9 compostable product to not only meet the ASTM standards, but be 10 associated with food scraps and other materials composters 11 accept, not have PFOS in it, and then be an allowable input to 12 organic agriculture.

BOARD MEMBER JOHNSON: Do you know the year or the number of the bill?

15MR. YEPSEN: AB 1201, and it was a few years ago.16BOARD MEMBER JOHNSON: Thank you.

17 CHAIR SMITH: Amy, please go ahead.

18 VICE-CHAIR BRUCH: Yeah, thank you, Kyla.

19 Rhodes, thank you for joining us today in person and 20 for your comments regarding compost. I have a couple 21 definition clarifications for you, because I think the devil's 22 in the details here with definitions, and I just want to make 23 sure I'm on the same page later on when we're hearing our 24 compost panel and then also deliberating.

25

So, one is, is there any distinguishing factors,

Burke Court Reporting & Transcription (973) 692-0660

visually, between a certified compostable product and a -- just a compostable product?

3 It's a great question and one that is MR. YEPSEN: 4 very key to our organization. So we require items to be 5 labeled in order to get our certifications. It was a part of a 6 three-year rollout where we required items to be marked in some 7 shape or form so that they can be distinguished. Several 8 states around the U.S. have also passed laws specifically on 9 compostable packaging, requiring them to be labeled. So what 10 we are seeing is more and more labeling specifically of compostable products, even when the conventional counterparts 11 12 are unlabeled.

So yes, there's no federal standard today requiring 13 14 labeling, but five states now have labeling laws, including 15 California, Washington, Colorado, Minnesota, and Maryland. And 16 then BPI as the leading certifier, we built it into our 17 requirements. So, starting January of this year, we actually kicked products out of our certification program for non-18 19 compliance for labeling.

20 VICE-CHAIR BRUCH: In what form would a label be put 21 on a product? Can you elaborate on that?

22 MR. YEPSEN: Sure, yeah. We -- it can be many, yes. 23 Nate Lewis is holding one up. So a coffee cup typically would 24 be printed. So printing is one mechanism. Embossing or 25 etching, so some type of physical mark is another. Those are

1 probably the two most common. But you could also use a sticker that would have to be certified compostable to identify the 2 3 item. We are also seeing some other innovative mechanisms, you 4 know, with stamps and things like that. And we did some work 5 with the closed-loop partners two years ago, identifying 6 different labeling techniques and really how you make something 7 readily and easily identifiable to the consumer. And you need 8 several things to make it identifiable, so not just the word 9 compostable, not just a third-party certification mark like 10 ours, but also some type of coloring is what they found in the 11 consumer test.

VICE-CHAIR BRUCH: Thank you. I have another question about just definitions and understanding, being on the same terms with words. The certification process for compostable, I was reading, it sounds like you're looking at PFOS if it's intentionally added. Is that correct? That's what's getting measured, is intentionally added PFOS?

18 MR. YEPSEN: Correct, yes. So we co-developed that 19 rule with groups like San Francisco Department of Environment 20 back in 2016, looking at how do we kick PFOS out. This was ahead of any regulation, even at a city level, that we're aware 21 22 And the best mechanism that we could identify at that time of. was the intentional use. So that's done through a chemical 23 24 screening of every ingredient, no matter how small, as well as 25 a statement from the manufacturer, because sometimes it's not

an ingredient, it's something in the manufacturing process,
like a spray that you put on the equipment. And then there's
also a total organic fluorine test to try to catch things and
make sure that we're keeping things honest.

5 VICE-CHAIR BRUCH: Okay. Is there a chance for 6 unintentional PFOS to be not captured --

7

MR. YEPSEN: Yeah, the reason for that --

8

23

VICE-CHAIR BRUCH: -- in certification?

9 MR. YEPSEN: -- language is something, if you think 10 about recycled paper content, where it may be getting in 11 through that. So again, we're -- we have criteria for recycled 12 paper and tests that those fibers have to go through. So they 13 wouldn't be allowed to intentionally use it, but it could be 14 coming through in that recycling stream.

Or water, so, you know, production sites that use water, and if you have groundwater that has PFOS in it, which pretty much it all does, you know, how do you not use water? So what we were trying to focus on is the limit for what's actually ending up in the product, and did you intentionally use it or not?

21 VICE-CHAIR BRUCH: Okay. Thank you, Rhodes,
22 appreciate that.

CHAIR SMITH: Mindee, please go ahead.

24 BOARD MEMBER JEFFERY: Thank you so much, Rhodes. As 25 a retailer, I've spent a lot of time in the stores being pretty

1 excited about developments in sustainable packaging, and at 2 Good Earth, we have many different kinds, and I appreciate the 3 work you guys are doing. I see us organically and as retailers 4 and as compostable package industries as adjacent industries, 5 and we're all really important in our partnerships. And so, 6 and then I step into my role as an NOSB person, and my role is 7 to, as a subcommittee, provide information for the public to give us information, and so that we can collect as much 8 9 expertise as we can find in this discovery phase of the 10 And so this is where we get to look at everything. process. So, thank you for coming to our meeting and for your efforts. 11

And I'm struggling with the ASTM standard, and I'm hoping you can provide me with some clarity, in the interest of collaboration. So if I read it correctly, and please help me if I don't, the ASTM standards, I think one of them, sometimes it's a 90 to 100-day cycle, and another one is a 180-day cycle, depending on the material. And is that accurate?

18 MR. YEPSEN: Yeah, so there are multiple tests -19 BOARD MEMBER JEFFERY: Yes.

20 MR. YEPSEN: -- in the standard, and you have to meet 21 all of them, and they're kind of tiered from like when you're a 22 raw material to being converted or to a finished package. So, 23 yes.

BOARD MEMBER JEFFERY: So is 180 days accurate?
MR. YEPSEN: The 180 days is for one specific test

1 for a raw material. Yes.

2 BOARD MEMBER JEFFERY: Okay. And so is it some of 3 them are 90, and some of them can be up to 180? 4 Correct, yeah, maximum timeframes. MR. YEPSEN: 5 BOARD MEMBER JEFFERY: So my question here is that 6 because the certifier is reflected to us, a certifier reflected 7 to us in public comments that they would be expected to verify 8 that the process of the composter was able to show that that actually occurred. Could you then understand if the Board had 9 10 to -- if we could include compostable packaging --11 MR. YEPSEN: Yes. BOARD MEMBER JEFFERY: -- and we found that route, 12 13 then would we also need to require that composters who took in 14 compostable packaging used a 90 to 180-day cycle to finish 15 compost? 16 MR. YEPSEN: It's a great question, and I appreciate, 17 you know, the sentiments about partnership and, you know, adjacent industries, and we feel the same way. And so, no, the 18 19 tests in the ASTM standards and that are used by ISO and all 20 around the world are these tiered tests, right? So that you have products, by the time it gets to a finished package, it's 21 22 been tested and retested multiple times. 23 So that 180 days is in isolation in a laboratory to

24 be able to tell whether an individual material on its own, 25 which is the requirement, it can't be part of the finished 1 item, can be fully consumed by the microorganisms. If you had 2 other active feedstocks in there, you wouldn't know whether 3 you're getting a result from the active feedstocks like food 4 scraps, or from the material itself. So the biodegradation and 5 disintegration happen much more rapidly in a full-scale 6 facility, as we have seen in a lot of field studies that have 7 been published recently.

8 It's just very challenging to be able to test that in 9 an open environment because of the number of variables. So, I 10 think that if there were concerns from the NOSB about what remains in the finished compost, just like for anything else, 11 you would -- you could have a test on that finished compost. 12 Because what we're finding is the materials, you know, do not 13 14 remain as long as you go through a sufficient composting So I know there were a lot of comments written and 15 process. 16 through the webinars around microplastics, and I would say we analyze every microplastic study we find. And the 17 microplastics, when you're finding a compostable microplastic, 18 19 it's in a partial stage of biodegradation in a process that 20 typically is really short and has not produced the finished 21 stable compost.

And so I think that would be a really good example of how the compost process is really important if you're looking at the stability, maturity of that material, and the quality, and whether it's suitable for organic agriculture.

Burke Court Reporting & Transcription (973) 692-0660

15 for detecting PFOS. 16 MR. YEPSEN: Yeah. So the ASTM standards and BPI 17 certification are in a process of continual improvement all the So we are definitely open to looking at that and what 18 time. 19 the labs have as a threshold, and then what causes a false 20 result, you know, again, being triggered. I think one of the 21 interesting things about the composting industry, right, is 22 there are passive receivers of materials. And I think that 23 we're trying to protect the composter as much as possible. So 24 if we can improve how strict our standard is and not have 25 things fail, everything fail, because of how much PFOS is in

3 of our wheels are spinning up here. I appreciate you fielding 4 all these questions. We had a little bit of information in the comments 5

kind of following up on Amy's question. My understanding is

that BPI threshold is 100 parts per million, which sounds like

eight years into the future from then, and my understanding is

dropping that standard as we continue to improve the technology

curious if it's feasible for you at this point to consider

last week around the PFOS threshold specifically.

when you established the standards in 2016 was, by my

now you can test down to like 10 parts per million.

understanding, like the lowest that you could test for.

2 Thank you. BOARD MEMBER JOHNSON: You can tell all

Allison, please go ahead. CHAIR SMITH:

So this is

So I'm

We're

6

7

8

9

10

11

12

13

14

1

1 the environment broadly, then we're open to, you know, doing 2 round-robin tests and figuring out what that new threshold 3 could be.

So yeah, I know that Denmark moved to 10 parts per million. You know, the 100 parts per million was helped, corroborated by University of Notre Dame and a lot of tests that they were doing, again, kind of looking at that intentional use level. And when it dropped below that, you started getting a lot more variability in the results.

10

CHAIR SMITH: Amy, please go ahead.

Rhodes, thank you for your 11 VICE-CHAIR BRUCH: 12 willingness to entertain all our questions. You mentioned you reviewed some of the written comments and studies that are out 13 I did have a written comment that I wanted to review there. 14 with you and see what your viewpoint is. It's -- this is a 15 16 It says, "The BPI certification says nothing about quote. 17 potential toxicity of a product, only its capacity to biodegrade." So I was just wondering what your thoughts were 18 19 on that. Thank you.

20 MR. YEPSEN: Sure. Yeah, it's -- that's not true. 21 So within the ASTM standards, they have plant toxicity tests, 22 which are OECD tests, you know, used internationally around 23 plant germination and biomass. And then, yes, the PFOS 24 restriction. We have a lot of other restrictions in our 25 criteria around persistent biological toxins and carcinogens and mutagens. And then heavy metals tests that are set at 50
 percent of the level that compost is held to, with the idea,
 again, of not being a significant contributor.

4 The U.S. standards for heavy metals for compost are 5 actually guite liberal. So we certify for Canada as well, 6 which has much stricter heavy metals requirements. And we've, 7 again, been very proactive. A few years ago, we went to ASTM 8 voluntarily and asked them to meet the strictest in North America, which is the province of Ontario, for their AA 9 10 compost. And all of our products have to be at 50 percent of that level for heavy metals. 11

So there are a variety of tests. We're always, again, happy to hear what other criteria the compost is being held to. That's been really the benchmark, is making sure that our products are meeting the same types of criteria that compost has to meet.

17 CHAIR SMITH: Wood?

18 BOARD MEMBER TURNER: Sure.

19 CHAIR SMITH: Sorry. Wood, please go ahead.

20 BOARD MEMBER TURNER: Thanks, Rhodes. Let's see.

21 I'm trying to make sure I'm asking something a little different 22 than what everybody else is asking.

Let's see. You know, it's hard for me to separate compostable plastic from kind of our single-use plastic kind of, you know, disease in this country. And so, when I think

1 about what's created compostable plastic, I think about, 2 frankly, a poor labeling process that began -- that started in 3 the petrochemical plastic industry 30-plus years ago. And so 4 when I think about something that has to rely on certification 5 and labeling to be able to figure out what's going into the 6 system, it raises -- it concerns me. Because I think that's 7 been a -- I think the labeling system that was implemented by 8 the plastics industry was a failure, a terrible failure. And 9 so I'm just curious. I don't want to risk organic for 10 potential failure here as well. 11 MR. YEPSEN: Yeah. 12 BOARD MEMBER TURNER: So I'm curious about your reaction there. 13 14 Well, are you talking about the Chasing MR. YEPSEN: Arrows for --15 16 BOARD MEMBER TURNER: Yeah. 17 MR. YEPSEN: Well, so I would say our program is more akin to the USDA organic certification than it is to the 18 19 Chasing Arrows, right? So the Chasing Arrows is not a 20 certification program. It has a lot of problems that are getting overhauled in many places. You know, it's purely a 21 22 voluntary or, you know, a self-identified resin code 23 identifying what plastic material it is. 24 In terms of a certification for compostability, it's 25 very different, right? There are a lot of tests and criteria

1 you have to meet. Labeling the item is to solve the problems 2 through the lack of labeling, because that's not really a 3 It was never really intended to be a consumer-focused label. 4 thing, you know, is the story. So I don't think that that's --5 it's -- you can compare the two. I think what we're working on 6 is really about tests and certifications that products need to 7 meet and labeling to make sure that consumers know what to do 8 with an item to properly sort and dispose of it. So I see them 9 as pretty fundamentally different.

10

11

25

CHAIR SMITH: Got a couple more. Bear with us.

Brian, please go ahead.

BOARD MEMBER CALDWELL: Thanks, Rhodes. Back to this 13 100 parts per million threshold for PFOS. I haven't read all 14 that, but what is that specifically for? Is it a finished 15 product or is it inputs? What is held to that 100 parts per 16 million?

MR. YEPSEN: Yeah, the finished package has to -it's 100 parts per million, total organic fluorine. So again, that gets into the weeds here. It's not a PFOS-specific test. It picks up a lot of other things with, again, the idea being that that test is very readily available.

And we're -- we were concerned about just the number of PFOS chemicals out there and the screenings sometimes are very specific. And so that casts a really wide net.

BOARD MEMBER CALDWELL: Yeah.

1 MR. YEPSEN: Yeah. 2 BOARD MEMBER CALDWELL: So that's for total organic fluorine? 3 4 MR. YEPSEN: Yes. 5 BOARD MEMBER CALDWELL: Okay. Those -- that range, 6 can you recall what the recent, I believe it was EPA drinking 7 water threshold is? 8 MR. YEPSEN: Yeah. Yeah, it's in the parts per trillion --9 10 BOARD MEMBER CALDWELL: Yes, it is. -- for PFOS molecules. 11 MR. YEPSEN: 12 BOARD MEMBER CALDWELL: So we're talking that 13 threshold is perhaps a million times higher than the drinking 14 water. 15 MR. YEPSEN: Totally, yeah. 16 BOARD MEMBER CALDWELL: Okay. MR. YEPSEN: 17 Yeah, I mean, I would just say, I mean, we have more than that in our blood, right? In our bodies 18 19 before we're born. We're on the side of getting --20 BOARD MEMBER CALDWELL: Not more than 100 parts per 21 million. What's that? 22 MR. YEPSEN: 23 BOARD MEMBER CALDWELL: Not more than 100 parts per million. 24 25 MR. YEPSEN: No, in the parts per trillion.

BOARD MEMBER CALDWELL: Yes.

1

2 MR. YEPSEN: And so what we're trying to get at are 3 reasonable test criteria. We're on the side of eliminating PFOS from single-use items. And I think you'll be hard-pressed 4 5 to find other organizations who've done more in packaging to 6 get rid of PFOS than BPI. So we're on that side. We're all 7 for figuring out better, improved test methods. They just have 8 to work for us certifiers. As you all know, with your 9 certification program, it gets challenging when you set rules 10 So we're open to hearing how we can improve those in place. criteria. 11 12 We don't allow any use. So if something shows up in a part per trillion in a formula, it's banned in our -- from 13 14 our program. 15 Thank you very much. BOARD MEMBER CALDWELL: Great. 16 CHAIR SMITH: Yeah. Nate, please go ahead. BOARD MEMBER POWELL-PALM: Can you describe how BPI 17 does kind of enforcement of your label? What happens if I 18 19 decide my thing's compostable and put BPI on it? Or is it a 20 trademark logo? How does that kind of the -- the full loop of 21 the scheme work? Thanks. 22 MR. YEPSEN: Yeah. Good guestion. It is 23 trademarked. So we have a fair amount of authority for 24 enforcing when somebody misuses our mark. Unlike with organic, 25 the word compostable is not covered under a federal regulation.

Some states have passed these laws, those five that I mentioned
 around the use of the word compostable that are linking it to
 ASTM standards and requiring certification.

So, yeah, we have -- we take all complaints, monitor the marketplace for misuse of the BPI mark, and pursue it to our fullest ability to get people to either enroll in the program if it truly was compostable and they just messed something up to, you know, help them fix that problem or, you know, pursue legal action to get them to remove the mark.

10 CHAIR SMITH: Thank you so much for being with us11 today, Rhodes. Appreciate your commentary.

12 MR. YEPSEN: Yes. Thank you.

13 CHAIR SMITH: Up next is Sal Pinkham, then Michael14 Crotser, and then Gwendolyn Wyard.

Sal, don't forget to state your name and affiliation.
MS. PINKHAM: Good afternoon. I'm Sal Pinkham,
Certification Program Manager at OFA. We certify 1,100 organic
farmers and food processors in the 12-state region. I
appreciate the opportunity to comment today on behalf of our
certification program and our farmers.

To increase access to NOSB meetings, we ask NOSB to publish meeting materials and technical reports as early as possible ahead of each NOSB meeting, to make both audiovisual and transcript recordings available to the public, and to institutionalize farmer listening sessions entered into the public record, outside of the spring and fall comment periods.
Thank you for continuing to bring attention to the need for
accessible and useful crop insurance for organic and
transitioning farmers. We've been pleased to see meaningful
efforts from RMA, such as the searchable database of agents
familiar with relevant policy types.

However, the transitional production plan needs greater finesse. The open-ended questions in the TPP may be harder to fill out for farmers not already steeped in organic terminology and practices than the checkboxes and specific prompts that certifiers like OFA have added to our OSPs.
Farmers who reviewed it said they would rather fill out the certifier OSP.

OFA farmers continue to state the importance of soil in organic crop production. We again urge the board to call for a moratorium on the certification of new hydroponic and aeroponic operations that grow crops to maturity in containers inconsistent with crop production standards and to add field and greenhouse container production back to your work agenda.

20 Regarding three materials topics. First, we 21 wholeheartedly support the proposed revisions to the technical 22 report templates. These revisions bring the process for 23 reviewing substances into better alignment with the National 24 List criteria and they keep up with the changing face of 25 organic production. 1 Second, OFA requires review of all synthetic 2 substances used in organic production. The presence of 3 endocrine disruptors and carcinogens in organic-allowed 4 pesticides presents a moral and economic hazard to all organic 5 operations. NOC proposes a workable, that's the National 6 Organic Coalition, proposes a workable and justified framework 7 to prioritize and review the synthetic inert substances 8 currently used in allowed pesticides.

Third, we fully support broadening the net for 9 10 residue testing to better encompass the entire global organic supply chain and we welcome guidance on how to use it most 11 12 effectively. We suggest that NOP aggregate positive test results from certifiers and share that data with us so that we 13 14 can continually adjust our sampling efforts to focus on areas of highest risk. However, we caution against over-reliance on 15 16 this expensive tool beyond 5 percent of operations annually. Like MOFGA, we are a non-profit and most of our certified 17 operations are small farms. Increasing the cost of providing 18 certification services risks pricing more of them out of 19 certification. 20

Finally, we note the importance of NOP impartiality among certifiers. We do not support the proposal for NOP to refer operations to individual certifiers. NOP should instead direct operations to the Organic Integrity Database certifier search.

1 Thank you all for your service to the organic 2 community and for taking the time to listen to my comments. CHAIR SMITH: Thanks so much, Sal. You have a 3 4 question from Nate. 5 BOARD MEMBER POWELL-PALM: Thanks for your comments, 6 Sal. Could you say a little bit more about what type of 7 farmers you tried out the transition plan with? Were they 8 transitioning farmers? Were they already existing organic farmers? 9 10 MS. PINKHAM: A mix of the two. We have a working 11 group as part of our policy program, not our certification program, comprised of OFA members broadly and it includes both 12 13 currently certified and transitioning farmers and a couple who 14 are considering transition. 15 BOARD MEMBER POWELL-PALM: Thank you. Okay. 16 CHAIR SMITH: Thanks so much, Sal. Appreciate it. 17 MS. PINKHAM: Thank you, all. 18 CHAIR SMITH: Up next, we have Michael Crotser 19 followed by Gwendolyn Wyard and then David Will. MR. CROTSER: 20 Thank you. Let me try again. I'm Mike Crotser, the certification director at Cropp Cooperative. 21 We 22 appreciate the work of the NOSB and the NOP to support organic 23 agriculture. 24 I want to welcome the NOSB, the NOP, and industry 25 partners to Wisconsin, a state of incredible natural resources.

It is an opportunity to talk about how our natural resources
 set us apart from any other state. What are those resources?
 Well, you must be from out of state. For all of us here know,
 they are beer, cheese and the Green Bay Packers.

5 I want to discuss generating organic certificates 6 through OID. The purpose of 20 -- 205-204 was to ensure 7 certificates have consistent information and formatting. SOE 8 requires that certifiers maintain certificates through OID with 9 the goal of improving transparency and accessibility. Hearing 10 this, we were excited.

However, we are seeing inconsistencies in OID-11 12 generated certificates and operation profiles. One concern is some OID certificates will have an issue date that is the same 13 14 date as when the certificate is generated. For example, if I generated a certificate today, it would have an issue date of 15 16 April 29, 2024, whereas if I generated the same certificate last Tuesday, it would have an issue date of April 23, 2024. 17 We hear that this is being corrected so that the issue date 18 19 will only change when certificates are updated, post-20 inspection, when products are added or removed.

We are seeing either the mailing address or the physical address listed on OID certificates. Identifying the physical address would be better. The mailing address, like PO, may not indicate where production is occurring or where the central office is. 1 We are also seeing certifiers take a parallel path and issue separate product addendums that must be obtained from 2 3 This is helpful by allowing certifiers to show certifiers. 4 production locations, but addendums are harder to obtain. We 5 see two concerns as a certified operation. One, it does not 6 appear that OID certificates are meeting the goals of improved 7 transparency or availability. And two, operations don't know 8 what they need for compliance.

We don't have any perspective on technology 9 10 limitations, but we believe these limitations are creating inconsistencies among certifiers. We acknowledge that SOE 11 increased the workload of certifiers and time is needed to 12 Our point is that a wider discussion is needed about 13 resolve. 14 how information is presented in OID, the documents an operation 15 must maintain, the role of addendums to augment operational 16 profiles, and how the NOP can facilitate consistencies.

Thanks for the time to speak today, and I'm happy to answer any questions on OID certificates or any other public comments CROPP has made. Thank you.

20 CHAIR SMITH: Thanks so much, Mike. I think you're 21 free to go. Appreciate your comments.

22 MR. CROTSER: Thank you.

CHAIR SMITH: Oh, shoot. Wait. Sorry. Nate's
supposed to be keeping an eye on Amy and Logan's hand.
Amy, please go ahead.

BOARD MEMBER POWELL-PALM: It's the Secretary's
 fault. Yeah.

VICE-CHAIR BRUCH: No problem. That's okay. Thank you, Mike, for joining us today and your comments. I appreciate it. Had a question for these addendums. You mentioned them in your comments just a second ago. How do you know if an addendum is available for an operation?

8 MR. CROTSER: That's a great question. Usually, we 9 have a hunch that information that we're not seeing on an 10 operational -- on an operation profile, something's missing, 11 right? And then we start looking at an addendum.

12 For us in our business, you know, branded items would be a good indicator of that, especially private labels, right? 13 14 If we get an operation profile off the OID and it's not showing 15 private labels that our business manages, we just know that 16 that's incomplete information. And so perhaps -- and this is 17 probably a longer answer that you wanted, is, of course, an operation profile should not list a bunch of private labels 18 19 because that kind of blows the cover of the purpose of having a 20 private label. But in generally (sic), if we're looking at 21 agricultural commodities like corn in our feed program, an 22 operational profile probably would be enough.

That's just our general hunch on this. We've had conversations with our certifier, OTCO, what's appropriate to have on file, what's not. We're kind of gaining ground there. But I will say that as a business, we've got good experience with this. We have 1,700 farms, 100 co-packers. So we have a lot more experience than other people in the supply chain. So if we're struggling to understand what we need for our OSP, I'm sure there's a lot of other people in the industry.

VICE-CHAIR BRUCH: Thank you for shedding some more7 light on that. Appreciate it.

8

CHAIR SMITH: Jerry, please go ahead.

9 BOARD MEMBER D'AMORE: Thanks. I didn't fall asleep 10 at the wheel here, but you went right by private label and the 11 purpose of private label, and I didn't catch the reference. 12 What do you mean by blowing the cover and the purpose of a 13 private label?

I mean, it's kind of difficult to talk 14 MR. CROTSER: about as a business and give more examples. But generally, 15 16 milk marketers, co-packers in the industry, will produce for 17 private label, store brands. And generally, that's an agreement between a particular business like ours or a co-18 19 packer to bring those private labels to market. And generally, 20 compliance for those private labels are rolled into the 21 certified business's organic system plan.

Generally, everyone knows who's doing everyone else's private labels. But generally, that historically has not been information that's been provided on organic certificates. Usually, a certifier will list what's called a private label 1 certificate. So if you look at Cropp's certificate on the 2 Organic Integrity Database, or even what you could get from 3 OTCO, you'll see our branded stuff on there: Organic Valley, 4 Organic Prairie, Mighty Organic, all those brands. But you 5 won't see listed in any of the private labels we do. And 6 that's primarily for proprietary reasons. 7 BOARD MEMBER D'AMORE: Thank you. 8 MR. CROTSER: Yeah, thank you.

CHAIR SMITH: Okay. Thanks, Mike.

9

10 Up next, we have Gwendolyn Wyard, then David Will, 11 and then Bill Wolf.

MS. WYARD: Okay. Well, hello, NOSB members, NOP staff, everyone in the gallery. My name is Gwendolyn Wyard and I am a founding partner of Strengthening Organic Systems. We are a new advising firm on the block and our mission is to assure the authenticity of organic products, help businesses prevent organic fraud, and maintain consumer confidence in the USDA organic seal.

19 Today, I'm going to touch on two topics. And if 20 there's time, I'm going to tell a nock-nock joke. Sorry, 21 Steve. This one's spelled N-O-C-K, not N-O-C.

22 So first up, pullulan, pronounced pullulan. Yes, to 23 answer the first question, it can be produced organically. And 24 NOP-certified organic forms are available. You can find 25 several listings of pullulan in the Organic Integrity Database, both the raw material, which is the primary ingredient for the
 organic empty pullulan capsule. So there's two products.

Most of the production is international, coming from 3 4 However, a recent expiration of a patent restriction China. 5 has opened the door for, finally, sales in the United States. 6 And we finally have one domestic producer of organic pullulan, 7 the raw material, and the organic pullulan capsules. This 8 Oregon-based company has the capacity to make 500 metric tons of the pullulan and 2 billion organic capsules. And I am in 9 10 touch with them and will be continuing to work with them. However, the current demand for their product is less than 30 11 12 percent of what their capacity is. So just some stats there to work with. 13

On commercial availability, it's important to 14 understand that the National List Allowance is for the made-15 16 with category, for made-with supplements, a category that Also, if a company 17 commercial availability does not apply to. wants to use the USDA organic seal on an encapsulated 18 19 supplement, they must use the certified organic capsule because 20 the weight of the non-organic capsule will not allow for that 95 percent compositions. 21 They must use that certified organic 22 version.

I believe that most companies want to use organic pullulan because they want to use the USDA organic seal. But we're not quite there yet for a host of reasons and a long 1 history that I'm happy to expand upon.

2	TR templates, moving on to my second topic. The
3	proposed TR revisions around excluded methods. Thank you for
4	your work on this. I believe the information collected may
5	support a more accurate and a more efficient compliance review.
6	The issue where the rubber hits the road is what to do with
7	that information and how it's effectively utilized by
8	certifiers and MROs in their day-to-day decisionmaking, product
9	by product. I'm going to venture to say that in order to
10	achieve the goal, if I'm understanding the goal, improved
11	material review policy, improved oversight and consistency will
12	need to be coupled with that information that you gain through
13	the technical review.
14	In closing, I'd like to pass the baton in style to
15	our next speaker, David Will, by sharing a nock-nock joke,
16	again spelled N-O-C-K. Madam Chair, if you would be most
17	gracious and ask me the question, nock-nock.
18	CHAIR SMITH: Who's there?
19	MS. WYARD: Methionine.
20	CHAIR SMITH: Methionine who?
21	MS. WYARD: Well, keep it on the DL, but I'm amino
22	acid and I'm essential as L.
23	CHAIR SMITH: Thank you. Questions for Gwendolyn?
24	Dilip, please go ahead.
25	BOARD MEMBER NANDWANI: I told you I'm not going to

1 ask questions, but it's just that hearing after your, you know, 2 analysis, I thought I'll just quickly have some sort of quick 3 clarification, not a big question.

And the big thing -- Gwendolyn, thanks for correcting the pronunciation. It is pullulan, right?

6

MS. WYARD: Pullulan, like pool.

7 BOARD MEMBER NANDWANI: So, the analysis of pullulan 8 is an agricultural or non-agricultural substance according to 9 the definition. Is it now conclusive that it is non-10 agricultural or non-synthetic?

MS. WYARD: It's conclusive that it's non-synthetic, non-agricultural, and that's a big part of the history is that for many years, it was being allowed in the made-with category as an agricultural ingredient. Then, when the classification of materials came out in 2016, I believe it was, so that's 5033. Once certifiers started running the pullulan through that decision tree, it came out as non-agricultural.

And so you can look in the petition and you can look 18 19 in previous documents and it goes -- it will walk you through 20 I won't go through that all here and put everyone the steps. to sleep. But that is what prompted the petition then that was 21 submitted in 2018 by the Organic Trade Association was to get 22 pullulan onto the National List so that it could continue to be 23 24 allowed in made-with encapsulated supplements in that 30 25 percent as an allowed non-agricultural ingredient.

Otherwise, I think we were looking at the time, it was something like \$825 million of made-with capsules were going to be out the door and not allowed. And so that was relatively recent. 2019, I believe, is when it went on the National List.

And then there was also this patent that was restricting sales in the United States. And that patent just expired. So yes, there is organic pullulan, but it's really new to the market and everybody is adjusting and now looking at reformulating and using that organic pullulan in their capsules. So it's a little bit more than you asked, but I couldn't resist.

BOARD MEMBER NANDWANI: Right. And I read that because I have this in front of me. And now we have the organic pullulan, but still, as you already mentioned, that it's not still in the market and it's probably going to take years, maybe to, I'm not sure. But we do have the option of organic pullulan now, right?

MS. WYARD: We do. And it's very exciting. And I did bring some labels to pass around, but I'll let you go out there and find them because that's always a fun scavenger hunt. I like to play that game with my friends.

23BOARD MEMBER NANDWANI: Thank you. That's all I24have.

25

MS. WYARD: All right. Well, thank you so much. And

1 thank you, everybody. 2 CHAIR SMITH: Oh, one more question. Amy has a 3 question for you. 4 MS. WYARD: Amy! Hello, Amy. Oh, there you are. 5 Right down there. 6 VICE-CHAIR BRUCH: Hi, Gwendolyn. 7 MS. WYARD: Hi. 8 VICE-CHAIR BRUCH: Thank you for joining us today. 9 The nock-nock joke was great. So hopefully, Steve has one that 10 will rival your nock-nock joke. I don't know if he will or 11 not. 12 I think he will, yeah. And I don't know MS. WYARD: 13 if we heard the laugh-o-meter to see, you know, who's going to win that. But --14 15 VICE-CHAIR BRUCH: Yeah, hopefully. 16 MS. WYARD: I'm not competitive. VICE-CHAIR BRUCH: I miss those, the laugh-o-meters. 17 18 So you'll have to keep me posted. 19 But anyway, I want to ask you a question on residue 20 Actually, I wanted to challenge you to come up with a testing. 21 solution. You mentioned in your written comments about a 22 challenge that we have when we're looking at when specific 23 tolerances don't exist for a processed commodity. And the NOP instruction asked certifiers to use the tolerance for the raw 24 25 commodity. And I didn't know if you had any insight on what we

1 can offer up for a solution to that challenge. 2 MS. WYARD: I'm going to refrain from answering that 3 question here. We are, as a group, working on it. Johanna 4 Phillips, who was the lead on those comments, she would 5 probably be better suited to answer that question. But I mean, 6 that is a great question. And I absolutely promise you that 7 we're going to come up with some options for solutions on that 8 I know, it's so unsatisfying. one. I'm sorry. 9 VICE-CHAIR BRUCH: No problem. I'll put it on my 10 punch list to sort of follow up. 11 MS. WYARD: Absolutely. Thanks. 12 CHAIR SMITH: Allison, please go ahead. 13 MS. WYARD: Hi, Allison. BOARD MEMBER JOHNSON: Hi. 14 Thank you so much for I just wanted to follow up on Dilip's question 15 your comments. 16 for, I'm going to test my pullulan --MS. WYARD: 17 Nice. BOARD MEMBER JOHNSON: -- to see if I heard you. 18 It 19 sounds like you're saying we could sunset it because there's 20 organic supply. Or were you saying we're probably close, but 21 not quite there? 22 I think that there's still a little bit MS. WYARD: 23 I just started working with the company more research to do. 24 that's making it domestically. And so the numbers that I 25 shared really need to be looked at, you know, relative to what

1 the total demand and capacity is. I know that they're not 2 fulfilling their capacity but that is because there are cheaper 3 versions out there that are coming, that are international.

4 And then there's also some questions around the --5 how brittle the capsules are. And so for certain technologies and certain mechanics, there's some considerations there. You 6 7 know, and it's an interesting question because I think I would 8 rather see somebody petition to take it off the National List than sunset it at this time because there still is a lot to 9 10 work out. And then keep in mind that it is for the made-with 11 category.

So organic is there. It's available. And for right now, as people are kind of building up and changing, I would rather see the shopper and the market drive us there and keep it on the list and then have the petitioner or somebody else say, now it's time for it to come off. But it is just for the made-with category. People always can use the organic version.

18 CHAIR SMITH: Thanks, Gwendolyn. All right. Thank19 you, everyone.

20 Next up, David Will, then Bill Wolf, and then Ben21 Lehman.

25

MR. WILL: Michelle, for the record, I always want to follow Gwen. Okay. Thank you. There's people I don't want to follow, but Gwen's perfect.

Thank you very much. My name is David Will. I'm

Vice President of Sales, Chino Valley Ranchers, and I am the
 chair of the Methionine Task Force. And that is what my
 comments are directed for you today as the chair of the
 Methionine Task Force.

5 In front of you, you have a binder that we hired a 6 ghostwriter to do for us. And this was a deep dive that was 7 everything methionine since the inception of the National 8 Organic Standards Board. So you have at the very front are about the first 96 pages of all the testimony and reports that 9 10 have been presented by our group and other groups. And then inside is a zip drive of the other 391 pages of antidotes, 11 12 links to click on, and other reports that you can go through and take a peek at. So there's everything in here. 13 Methionine 14 is mentioned in a meeting, you have it in front of you. So it's not biased at all. 15

On our slide presentation for you, our group is represented by the vast majority of the organic egg producers and broilers in the country. More than 80 percent of egg farmers and more than 70 percent of broilers are members of our group. That includes pastured, free range, and what's called conventional organic production. So we have the full gambit of all production under our umbrella.

You know, the big question is why we use methionine.
And the big reason is because it is an essential amino acid and
it has no lysine in it so it helps us with that and it has a

nice protein value. If you look at, there's the most leading potential substrates that we can use. Obviously, black soldier fly jumps out at the top. And then number three is sunflower meal, which was interesting. Our company uses a fair amount of sunflower meal for a particular egg. However, we're only feeding 30,000 birds on it. We're constantly stressed with getting enough product for it.

8 If you take a deep dive into the black soldier fly, currently, if you take the 35 million organic laying hens that 9 10 are in production in the United States every day, that works out to being about three billion pounds of organic feed 11 produced annually. At the two pounds per ton, we're currently 12 using three million, about 3.2 million pounds of methionine 13 14 annually at the two-pound-cap or average over the lifetime of the flock. 15

Black soldier fly, in order to replace it at 100 percent, must be fed at the rate of 280 pounds per ton in order to equal the same as the two pounds of methionine that were used, or 447 million pounds of black soldier fly larvae annually. Unfortunately, that's a dried figure. If you take it as a liquid, which we use six pounds per ton, it's a little over two billion pounds.

23 On top of that, every pound of black soldier fly, you 24 get about two and a half pounds of a byproduct of fertilizer, 25 which isn't a bad thing, but it's something additional that we

1 need to work on. On top of that, it's whether the bird's going 2 to eat and the fact that it's also not ASCO certified yet. So 3 that's where we're at with black soldier fly. 4 CHAIR SMITH: I've got a question from Nate. Please 5 qo ahead. 6 BOARD MEMBER POWELL-PALM: Would feeding a black 7 soldier fly impact your ability to label eqgs as vegetarian-8 fed, or is that something that you do, or do you have an 9 opinion about that tension or potential tension? 10 MR. WILL: You know, Nate, there's birds outdoors and indoors are always going to eat a certain amount of 11 12 invertebrate, and I think that we're okay with that as an When we're starting to put that in as a feed, we'd 13 incidental. 14 probably have to run it through a legal challenge and see what 15 that worked out to, because then, now we are intentionally 16 including it into the ration. 17 CHAIR SMITH: Kim, please go ahead. BOARD MEMBER HUSEMAN: I have a quick question 18 19 regarding -- you kind of skimmed over real quickly the 20 availability of sunflower meal in the diet. Can you speak a 21 little bit more to that? Assuming your production is West 22 Coast focused? 23 MR. WILL: We work throughout, up to the great 24 Mississippi Ocean, we have production and packaging available. 25 We do a particular product. We do -- one of our lines is a

soy-free egg, and one of the big replacements we found for that sunflower meal. And we have about 30,000 birds on it at all times, and we have been challenged finding a source. Now I will tell you, at Expo West this year, I had five people come up and tell me they now offer organic sunflower meal, so we're exploring that.

But I also asked our nutritionists, is non-organic sunflower meal something that we might be able to find, trading off a synthetic for a natural? And they said it's really not available out there as a feed ingredient either. I feel it's considerably limited.

The one company that's doing black soldier fly that I've spoken with has 100,000 square-foot building, and they're going to produce 3500 tons -- 3,500 tons annually, which is about 1 percent of our national need.

16BOARD MEMBER HUSEMAN: Talk to me about sunflower17meal.

BOARD MEMBER HUSEMAN: I know where it's produced.MR. WILL: Yeah.

MR. WILL: Yeah, happy to afterwards.

18

25

21BOARD MEMBER HUSEMAN:Both in -- inside the United22States.

23MR. WILL: Yeah, we source from everywhere. Always a24struggle.

BOARD MEMBER HUSEMAN: I think logistical constraints

1 can be, you know, as we talk about U.S. infrastructure. But 2 I'm always trying to challenge, not only inside of, you know, 3 as we talk about methionine, but we also talk about soybean 4 meal stability. What alternative proteins?

5 We've heard from farmers about, I'm not going to grow 6 sunflowers because there's not a market. You know, trying to 7 help to stabilize that.

8 My other question, I guess kind of in the same space 9 would be, and I appreciate that the methionine task force have 10 talked to other people about this too. It's so impressive. Do 11 you feel like the market would abuse methionine if there wasn't 12 a limitation set on it?

13 MR. WILL: It's like anything. There's a high side 14 and a low side. You always hit the law of diminishing returns. 15 You know, but understand at the start, we started with no 16 average whatsoever. We were allowed to use it. Then we got a Then it was cut to two pounds. 17 four-pound cap placed on us. We came back and we asked it go to an average over the life of 18 19 the flock because you don't feed a child like you do a senior 20 citizen. And we were granted that. And I think the majority of people have been able to work under that system. 21

I think if you remove the cap, there would be instances that people would use more than what they currently are. But over the life of the flock, I don't see that changing dramatically. It's the most expensive ingredient we put into

1 our feed. And unfortunately, black soldier fly is twice as 2 expensive currently. It's over \$6,000 a ton. 3 BOARD MEMBER HUSEMAN: Thank you. 4 CHAIR SMITH: Amy, please go ahead. 5 VICE-CHAIR BRUCH: Yeah, David, thanks for your time 6 today. Just -- I'm kind of piggy backing off of my partner, 7 Kim, that's downstream in the value chain from me, as a 8 producer, that your comment on the sunflower meal really perked 9 my ears. And were you running into sourcing challenges just 10 with the process piece, process capacity in the U.S.? Okay. 11 Or --12 MR. WILL: And international. We got a lot of it 13 from Mexico for years. 14 VICE-CHAIR BRUCH: Okay. Okay. This, I'm just highlighting, would be an incredible opportunity for 15 16 infrastructure needed in the U.S., because you have a need for 17 it. And there's a lot of producers very close to you that can 18 grow these sunflowers. 19 MR. WILL: Absolutely. 20 VICE-CHAIR BRUCH: Thank you for bringing that up. And then you need a home for the 21 MR. WILL: Sure. 22 oil, obviously, because we're getting the crushed part out of 23 it. 24 VICE-CHAIR BRUCH: Absolutely. Thank you. 25 Nate, please go ahead. CHAIR SMITH:

BOARD MEMBER POWELL-PALM: Thank you for your comments. Could you speak to the animal welfare implications of underfeeding methionine?

MR. WILL: Well, it's called essential for a reason, 4 5 Everything that a chicken does is all based off the Nate. 6 receiving of the proper essential amino acids. You'd mentioned 7 overfeeding or the feeding of sunflower -- soybean proteins. 8 We did that at the start when we had the hard cap, especially 9 with young chickens. And we saw instances of feather pecking, 10 extreme nervousness in flocks. We -- you know, you walk a house of brown chickens, and you literally have to shoo them 11 12 from underneath your feet. It's like walking through an ocean of fish, because they flock. 13

And when we had methionine deficiencies, especially the first 30 weeks of age, they acted like white birds. They were flighty. They were sketchy. They just didn't want to be associated with you and didn't want any contact. So we had problems with that.

When we were overfeeding soybean, we got additional ammonia in the chicken houses. We were getting hot feet because of the extra soybean that was not being digested. So we were having foot issues as well. So it's all across the map, and it is a significant impact to their welfare. BOARD MEMBER POWELL-PALM: Thank you.

CHAIR SMITH: Thanks so much, David.

25

Burke Court Reporting & Transcription (973) 692-0660

MR. WILL: You're welcome. Have a good day. CHAIR SMITH: Ben Lehman, and then Noah Wendt. MR. WOLF: Do I have to introduce myself? Hey, I'm I'm CEO of Wolf & Associates and owner of Second For over 50 years, earthworms have guided my organic Some of the guides -- some of my guides are farming practices. here with me today. So I'm going to open a can of worms and observe a number of issues. Hi, guys. So, slide three. Okay. Please consider our many written comments from sunset to essentiality to assuring the National List is a useful toolbox. I won't read everything on slide three, there isn't time. But I'd like to go on to slide four.

19 Now, some specifics to increase U.S. organic acreage. 20 Slide four, please. Do I do that? Oh, I do that. Okay. 21 Well, I'm going to have to go real fast now.

Some specifics. So, organic pet foods now and moving 22 23 forward, and it's going to help. Organics in the farm bill, 24 asking for 5 percent of all USDA RNA, an organic marketplace, organic order checkoff, an in-transition label, an increase, 25

Up next, we have Bill Wolf, followed by 2 3

1

10

11

12

13

14

15

16

17

18

4 5 Bill Wolf. Star Farm. First, I really want to thank all of you for your 6 7 amazing work and your dedication. You're doing a great job.

8 My comments today focus on actions you can take that 9 will increase U.S. organic acreage with integrity. Slide two.

183

1 and really create a level playing field for U.S. organic 2 farmers.

U.S. farms, slide five. Oh, I get to do it. Cool. Didn't used to. U.S. farmers are being hammered by imports. The U.S. is 46 percent of worldwide sales, but less than 2 percent of organic acres. This figure -- these figures are on this chart and well documented. What's wrong with this picture?

9 Good Lord. From 2008 to now, organic has grown from 10 \$25 billion to over \$70 billion, with U.S. acreage not 11 increasing. Off share -- offshore production has filled that 12 demand.

So what do we do? Well, there are a lot of things. One of them is we can -- we need to update residue testing guidance for certifiers and coordinate testing and publish results. We need to -- and we need to solve the inerts roadblock. It's keeping practices out of the hands -- good practices and important products out of the hands of U.S. growers and stifling innovation.

Okay. Here we go. The current uncertainty of -- the current policy about inerts has stalled pest control choices for growers. Formulators need stable regulations and stable predictability in order to get U.S. organic farms the tools they need.

25

Outside the U.S., inert carriers are not scrutinized

1 in this way. 2 CHAIR SMITH: Thanks, Bill. MR. WOLF: Yeah. 3 CHAIR SMITH: Questions? I see Logan. Please go 4 5 ahead, Logan. Hi, Logan. 6 BOARD MEMBER PETREY: Thank you. It's easier to do 7 it that way than the reactions. Hi, Bill. Good to see you. So, I have a question, actually, not one that you 8 9 brought up here. It's from your written comments. It's on 10 CO2, the petition. 11 MR. WOLF: Uh --12 Is that okay if I ask that? BOARD MEMBER PETREY: 13 MR. WOLF: I can tell you that it was very carefully 14 thought through by a group. BOARD MEMBER PETREY: 15 Okay. 16 MR. WOLF: And that answer would better be provided by John Foster, who oversaw that. 17 18 BOARD MEMBER PETREY: Okay. 19 MR. WOLF: And he'll be speaking in a couple of 20 minutes. 21 BOARD MEMBER PETREY: That's no problem. I'll wait 22 for John. Thank you. 23 MR. WOLF: Yeah. Sorry to -- sorry. I really --24 BOARD MEMBER PETREY: That's okay. 25 MR. WOLF: I'm aware of it, but I'm not an expert on 1 it.

4

5

BOARD MEMBER PETREY: I was going to ask you both, so it's fine. Thank you.

MR. WOLF: Okay. Sure.

CHAIR SMITH: Nate Powell-Palm, please go ahead.

BOARD MEMBER POWELL-PALM: Can you go back just a
couple of slides to your growing organic markets? One more
back. More. More. More.

9 So, when we say, ask for 5 percent of USDA research 10 and education dollars, why in this community do we have such a 11 problem asking for more, asking for our fair share and all that 12 we represent?

MR. WOLF: Well, there -- it's important to 13 understand from what I've seen of the USDA funding that it 14 15 can't happen overnight because we have to have the 16 infrastructure to manage that money well. I mean, it's just like the TOPP program and the interface with NRDC is hitting 17 some roadblocks that need to be solved over time. But the fact 18 19 is that this conversation about asking the USDA and Congress to 20 allocate the funds proportional to our industry is a basic business principle. And even more, if you were running a 21 22 business, you'd go after where the growth is. So, we've been asking this question for 25 years. This is where the growth 23 24 is, but we don't spend the money doing the R&D to support that 25 growth. And that's why the acreage is flat. I mean, we have

1 done so much to encourage imports by our inaction, that that's
2 the essence of that point.

BOARD MEMBER POWELL-PALM: I really appreciate it.4 Thank you.

5 CHAIR SMITH: Thanks. Oh, sorry. Go ahead, Jerry.
6 BOARD MEMBER D'AMORE: Am I the only one in the room
7 that doesn't want to know how the worms are doing?

8 MR. WOLF: I would be happy -- glad to share with you 9 what's going on. First of all, it was a challenge, because 10 this is the first time they've flown. And they've never had 11 that kind of experience. And they've been pretty upset in my 12 hotel room. They've been fed.

13 CHAIR SMITH: Are they really worms? I need you to 14 hold it up.

MR. WOLF: They've been fed -- well, there's actually two groups here. And there is some racial issues here, because we talk about, you know, integration. There are red wigglers from my two worm farms.

BOARD MEMBER D'AMORE: You sure you want to go down this path?

21 MR. WOLF: They've worked it out. The -- but the 22 regular earthworms I dug up from an organic plot on Friday 23 afternoon. And they'd never traveled, and I mean, from the 24 organic plot, the reason I took them was that they're 25 descendants of Oliver. And Oliver was found in 2009 at the

1 USDA People's Garden, when Rodale was delivering a truckload of 2 organic compost. And a photograph of Oliver became your 3 mascot. And I can pass that around. But Oliver, I brought Oliver home from that pile. 4 5 And these are descendants. So that's the bottom line. 6 The guys in the compost bins, on the worm compost 7 bins, all are getting organic coffee. When I got here, I 8 realized I didn't have any organic coffee grounds. And 9 actually, a coffee consultant that works for me went out and 10 found organic coffee grounds. I gave them some a few minutes And they're doing much better. Is that helpful? 11 aqo. 12 BOARD MEMBER D'AMORE: And truly, I'm not sorry I 13 asked. 14 MR. WOLF: But they don't like the light. So I'm going to protect them with a non-organic cotton shirt that I 15 16 was given by the NOSB years ago. Thank you, Bill. Appreciate it. 17 CHAIR SMITH: 18 MR. WOLF: Okay. No more questions. 19 CHAIR SMITH: I think we're good. I think this is 20 like right where we want to --21 MR. WOLF: Any questions about endurance? Oh my god. 22 All right. Thank you. 23 CHAIR SMITH: Up next. Ben Lehman. Then we have 24 Noah Wendt. And then Kate Mendenhall. 25 Just a reminder to state your name and affiliation.

Also, if you have slides, there's a slide advancer on the
 podium. So, you can advance your own slides. Go ahead.

3 MR. LEHMAN: My name is Ben Lehman. I work as an 4 organic consultant with Rodale Institute. I also farm organic 5 And thank you all for your time today. grain in Iowa. I also 6 want to say thank you to everyone here that's worked tirelessly 7 on the Transition to Organic Partnership Program, which we 8 believe has already shown itself to be a historic success in 9 the organic industry.

10 Rodale Institute's a non-profit that's dedicated to 11 growing the regenerative organic movement. Our team of 12 consultants help organic and transitioning farms across the 13 country to navigate the certification process, implement 14 practices that improve soil health, reduce risk, and connect 15 with reliable markets. I'm here today to share our experience 16 with the NRCS Organic Management Practice Standard, or 823.

823 provides conservation contracts for organic and 17 transitioning farms, running three or five years, with grain 18 19 farms under 1,000 acres receiving a minimum of \$210 per acre 20 per year and higher payments for farms growing fruits and 21 vegetables or integrating livestock. It requires nutrient 22 management plans, which encourage farmers to closely evaluate fertility practices, and -- as well as vigilant scouting 23 24 records as part of a pest management plan. 823 contracts are 25 an extremely effective use of funding to protect our soils and 1 the environment.

2 Communication is critical for the success of any new 3 Our view is that communication has been a challenge program. 4 for 823, which has affected farmers' ability to access this 5 important source of funding. With a guick turnaround between 6 the program announcement and the first funding round meant 7 there was limited opportunity to outreach and many 8 transitioning organic farms had not yet developed a relationship with NRCS. As we heard earlier, Iowa Organic 9 10 Association and Iowa State University responded to this need in my home state, using TOPP funds to host 823 trainings, conduct 11 12 outreach to farmers, which resulted in 45 applications in Iowa 13 so far, including my own.

Unfortunately, awareness of 823 is highly variable. 14 For example, in 2023, Illinois led the nation with 142 contract 15 16 instances while neighboring Indiana had only five. Α nationally coordinated list of upcoming state deadlines to 17 apply for 823 could make outreach efforts easier for both NRCS 18 19 and supporting organizations and make sure that funding 20 allocated to help these farmers is utilized effectively while 21 still affirming locally driven processes.

Although 823 is adequate funding for transitioning acres through the Organic Transition Initiative, there's inadequate funding for certified organic acres. Some states do not use general EQIP funds for 823, so no certified organic acres are eligible. For states that do accept applications for certified organic acres, 823 outreach is even more critical for farmers' future success, as more applications may lead to additional general organic EQIP funding. In either case, more federal funding will boost this essential conservation program. Thank you for your time.

CHAIR SMITH: Nate, please go ahead.

7

8 BOARD MEMBER POWELL-PALM: Ben, just want to say 9 thank you so much for your work across the country, but also 10 for your work with Rodale in helping organic farmers and 11 transitioning farmers. It sounds like from what Roz was 12 telling us earlier, that you've had a bit of success, maybe 13 more than other states, in being able to help farmers access 14 this 823 funding.

Do you have any tips or tricks for how you've developed that relationship with NRCS? I know IOA has provided training for NRCS and there's a growing relationship there, but any takeaways that you would share with the other TOPP leads or other folks working to help farmers get access to these funds?

20 MR. LEHMAN: I think, you know, what Roz had 21 mentioned earlier about those programs that do specifically 22 train NRCS agents on working with organic farmers, they're 23 going to be bringing a group of NRCS agents out to my farm as 24 part of this training. You need to really see these organic 25 farms in action and see how they work. Maybe challenge some of the existing biases in offices associated with farms that do tillage. And I think that is a big sticking point, especially in some of our hillier areas, and one way we can boost more acres.

BOARD MEMBER POWELL-PALM: So, farm tours of NRCSagents on organic farms. How about that?

7 MR. LEHMAN: Yes. Talking to more organic farmers.
8 I think getting that real experience with organic farmers.

BOARD MEMBER POWELL-PALM: Thank you so much.

CHAIR SMITH: Amy, please go ahead.

VICE-CHAIR BRUCH: Yeah. Thanks for your time today and talking about this important program, 823. I wanted to ask you. You had some statistics on some states and their acceptance rates for the deployment of 823. I believe you said Illinois had over 140. Is that correct?

16 MR. LEHMAN: Yes, they track it in number of contract 17 instances, which is, I believe, fancy wording for the number of 18 contract years. So, 142 years contracted for farms to be in 19 823. Those contracts were either three or five years each.

20 VICE-CHAIR BRUCH: Okay. Well, that -- that's 21 helpful to just get data. And I don't know if there's any 22 other data available. I believe in Nebraska we had maybe two 23 applicants in the entire state. You mentioned, you know, a 24 certain amount in Iowa as well.

25

9

10

I was just -- this Illinois number is interesting to

1 me. Can we find out the number of folks that applied versus 2 the conversion rate of those accepted? Because if it's a high 3 -- I mean, there's just such a need for this program.

4 I'm trying to figure out, did people not apply 5 because they didn't know about it? Were there challenges in the middle with execution of the documentation needed? Or, you 6 7 know, where is the root cause of the problem for not getting 8 successful, you know, connection between farmers and this program? Because it is an incredible program. I believe it's 9 10 the second time it's been offered. And we just, you know, I don't know who's shepherding this data, but that would be 11 12 helpful for us to try to understand it a little better so we 13 can get it fixed.

That's an excellent, excellent question. 14 MR. LEHMAN: 15 And in the case of Illinois, we saw a huge bulk of the In fact, one third of the entire national funding 16 contracts. in 2023 went to one county in Illinois. It just happened to 17 have a very strong, supportive, informal group of organic 18 19 farmers and supportive NRCS agents. But it wasn't being 20 heavily promoted by any formal organization or NRCS. So in 21 that case, I believe most of those contracts have been 22 successful from what I understood.

We did see farms like my own that are already a certified organic farm. We don't have access to those OTI dollars. We rely exclusively on the general organic EQIP funds. In Iowa, we had 15 certified farmers apply for that.
There's only enough money in that general organic EQIP fund for
one contract on one farm. So, my contract was not successful.
My dad's contract on a transitioning field was successful. So,
plenty of funding on those transitioning acres, but that is the
big bottleneck on the certified acres for sure.

VICE-CHAIR BRUCH: Thank you so much.

7

8 CHAIR SMITH: Thanks so much, Ben. Appreciate your 9 time.

10 Up next, we have Noah Wendt, then Kate Mendenhall, 11 and then Kelly Damewood.

MR. WENDT: Do I start that or do you? Okay. All right. My name is Noah Wendt with A&W Farms. I would like to thank you, all you members of the NOSB, for hearing farmer and related ag professional voices at your meetings. I feel that continuing to have both in-person and virtual comments is important and increases access for farmer participation.

I'm a member of the Organic Farmers Association, the 18 19 OFA Crop Insurance, and NOSB Working Groups. I'm a member of 20 the Iowa Organic Association Board of Directors and a TOPP 21 In 2006, I started farming together with Caleb Akin, mentor. 22 forming A&W Farms in Central Iowa. In 2015, we decided to 23 begin the aggressive transition from conventional to organic 24 production. Since 2015, we have transitioned 1,750 acres, or 25 2,800 acres, to organic production with another 300 in

transition right now. The crops that we grow are corn,
 soybeans, sunflowers, oats, wheat, hemp, and field peas.

In addition to the farm, I have my own crop insurance agency and farm real estate brokerage. Throughout our years of organic production, we realized the need for a more local grain elevator to take the crops that local organic farmers were producing. So we decided to purchase an elevator on the east side of Des Moines, Iowa, in early 2022.

Today, I would like to comment on the barriers to 9 10 entry of this market that we experienced. Number one, lack of capital for a non-hedgeable commodity. This is where we 11 12 struggled to get grain purchased in desirable quantities because we couldn't secure an operating note to purchase 13 inventory. There was too much risk for the bank to loan us 14 15 It would be great if the USDA would be able to money. quarantee loans with local or regional banks to help small 16 17 businesses secure operating notes.

Number two, lack of infrastructure to efficient -efficiently load rail cars to send to the east and west coast feed mills. It would be great if the USDA could provide some grants to allow small businesses to build infrastructure to ship the product to the next user.

And number three, most importantly, the lack of enduser interest in our product due to cheap imports. This happened several times throughout our business experience. We 1 -- if we had credit to buy more grain from local farmers, that 2 doesn't always mean that we could get the grain sold for an 3 acceptable margin. Oftentimes, this forced us not to even 4 compete to buy the grain because our margins didn't justify 5 The end-user would tell us that they wanted to buy operating. 6 as much domestic grain as they could, but when it came time to 7 sell, they weren't willing to buy and would always go buy the 8 cheaper fraudulent imports.

9 After Jenny's talk this morning, I remain hopeful 10 that -- and confident that the SOE will give us relief that we 11 need. The TOPP program has done a great job helping transition 12 investment. However, if our country doesn't get import and 13 domestic fraud handled or more market development in place, 14 then the transitioning farmers' efforts are fruitless.

Unfortunately, due to the events discussed above, we were forced to close our business in March of 2024. I do still have the desire and hopefully financial wherewithal to make this type of business happen. However, there needs to be some fundamental changes first. Thank you for your time.

20 CHAIR SMITH: Thank you so much. Questions? Nate,21 please go ahead.

BOARD MEMBER POWELL-PALM: Thanks so much for joining us today, Noah, and really appreciate this very clear example of the challenges we're facing to grow the organic market. Could you speak a little bit more to what you, if we hadn't

1 seen prices crash, what you think your elevator would have done 2 for your community? Would it have provided a catalyst to get 3 more organic acres going? Would it --4 MR. WENDT: I --5 BOARD MEMBER POWELL-PALM: -- have been serving an 6 existing need? Please go ahead. 7 Sorry to interrupt. MR. WENDT: 8 BOARD MEMBER POWELL-PALM: No, no. Yes, I definitely do. And that was 9 MR. WENDT: 10 certainly the goal of the elevator, was to promote organic production and actually try to form a community of organic 11 producers that were, you know, within maybe 50 to 70 miles, 12 that it was efficient for them to haul to us. And we would 13 14 have a resource there for them that they could store dry grain, 15 have all the different options that they need and not have to 16 take up space on the farm and burden maybe their non-organic farming operation. And I certainly think, yeah, if prices 17 hadn't crashed and we were still running, we would have had the 18 19 chance to try to build that. 20 BOARD MEMBER POWELL-PALM: Appreciate you. 21 MR. WENDT: Yep. Kim, please go ahead. 22 CHAIR SMITH: 23 BOARD MEMBER HUSEMAN: Noah, thank you for being here 24 today. 25 MR. WENDT: You're welcome.

BOARD MEMBER HUSEMAN: I think having you present in person and also as having the virtual comments period time, goes to show that we appreciate the effort that you made to come and also understand the people that can dial in virtually, how important it is to hear the voice from the farmer.

6 My question around the infrastructure and the 7 logistics, can you speak to any communication you've had with 8 railroads and support from the railroad entities to help 9 provide maybe some benefit there on cost savings to build or 10 move product within the U.S. via rail?

Yeah, in the year and a half that we were 11 MR. WENDT: 12 open, we did have pretty extensive communication with railroads. And like usual with railroads, it was quite a fight 13 14 to get the cars when you wanted them and when you needed them. 15 Probably one of the biggest things that we struggled with was 16 the lack to have like dedicated organic cars. It was always 17 having to clean them out really thoroughly to satisfy those standards of the people purchasing from us. 18

You know, I think other than that - other than those things, the railroads, they were generally decent to work with other than some of the usual logistical frustrations that go on with them.

23

25

BOARD MEMBER HUSEMAN: Thank you, Noah.

24 MR. WENDT: Yep.

CHAIR SMITH: Thanks for, oh, sorry, one more. Amy,

(973) 692-0660

1 please go ahead.

VICE-CHAIR BRUCH: Yeah, Noah, thanks for joining us
today. Thanks for all your commitment to the organic community
and your entrepreneurship. That's really important.

5 You mentioned about your end users talking about the 6 cleanliness of rail cars. And that got me thinking, you know, 7 when we're looking at imports, we're also looking at a similar 8 clean-out, potentially, process with ship holes and containers, 9 et cetera. Can you highlight some of the requirements that the 10 domestic end users were wanting you to go through to prove 11 integrity with these rail cars?

12 MR. WENDT: Yeah, good question. Generally, what they wanted was swept and blown out. We never did have to go 13 14 to the extent of actually power washing them out. But that in 15 and of itself, sweeping and blowing them out is a pretty big 16 feat if you don't have, you know, the correct fall protection 17 and the correct equipment to get in there and do that job. And oftentimes we found ourselves crawling underneath the car to 18 19 try to clean them out because we couldn't climb up inside of 20 them or -- from the top down. It was still a chore.

But that was the main thing, just sweep and blow them out. And then obviously have our clean car affidavit that went along with it.

24 VICE-CHAIR BRUCH: Thank you, appreciate that.
25 MR. WENDT: Yep.

CHAIR SMITH: Thanks so much for being with us
 today, Noah.

3 MR. WENDT: Thank you. Up next, we have Kate Mendenhall, 4 CHAIR SMITH: 5 followed by Kelly Damewood, and then Phil LaRocca. 6 MS. MENDENHALL: Okay. Thank you, NOSB members, for 7 the opportunity to speak before you today. My name is Kate 8 Mendenhall and I'm the Executive Director of the Organic Farmers Association. OFA was created for farmers by farmers 9 10 and they're the backbone of the organic farmer movement. And 11 we owe today's strong market to their hard work and continued 12 innovation. Making sure that organic farmers have an equitable 13 In fact, 14 playing field has always been a top priority of OFA. 15 during the seven years we have been established, stopping 16 organic import fraud has been a consistent number one priority The SOE has provided many new tools to 17 of organic farmers. certifiers and authorities to the NOP, and together they must 18 19 implement risk-based and sound and sensible decision-making 20 that will curb fraud in the marketplace. Having continued 21 guidance from NOP around those high-risk protocols that would 22 support targeted increased scrutiny is incredibly important. 23 It's important so that low-risk operations are not overburdened 24 with paperwork and processes and so that operations that

25 present higher risk to the market bear the appropriate

enforcement and documentation to prove integrity is solid.
Continued clarity and support from NOP is important so that
certifiers implement risk consistently and appropriately. We
appreciate NOP's leadership on this and we know there is an
ongoing need for attention.

Hearing the import grain fraud back at the top of 6 7 farmer testimony breaks my heart. U.S. farmers do a great job. 8 Organic farming, as you know, is hard and they deserve an equitable market. We also cannot encourage farmers to 9 10 transition to organic if the market is not secure and stabilized. The NOP has the authority to require testing of 11 12 high-risk imports now. We're excited to hear about the pilot with the Federal Grain Inspection Service and innovations like 13 14 this should expand to secure organic integrity in the 15 marketplace. We all know it's a problem and we need to work 16 together to fix it quickly.

17 USDA programs play an important role in supporting farmer success and improvement. NRCS 823 has a lot of 18 19 potential and rollout has been discouraging. OFA encourages 20 the NOSB to pass a resolution calling on the Secretary to fix 21 the national rollout of NRCS 823 so that it's consistent among 22 states and transparent in its process so that the farmers who 23 want it can easily apply and keep farming. OFA will be 24 starting a farmer work group on this topic in the fall and any 25 farmers interested in working to improve 823 should get in

1 contact with us.

2	Farmers need adequate safety nets so that they can
3	survive to farm another season when they're consistently placed
4	in the nexus of consolidation and climate change. Dairy
5	farmers continue to struggle, crop insurance continues to need
6	significant improvements, and consolidation threatens to break
7	fragile supply chains and infrastructure. While the draft farm
8	bill may offer some improvements, this is a moving target and
9	we do need to stay on top of it. OFA has a farmer work group
10	on this topic as well and we're always looking for more farmer
11	experts. Perhaps some from the NOSB.

Diversity is a central tenet of organic and prioritizing equity at NOSB and NOP provides collective improvement for all farmers. OFA urges the NOP and the NOSB to apply the USDA's 2023 Equity Commission recommendations and embed racial equity in the NOSB processes, discussion documents, and public meetings. Thank you for the opportunity to speak.

19 CHAIR SMITH: Ouestions for Kate? Go ahead, Allison. 20 BOARD MEMBER JOHNSON: Thanks for your comments, 21 I was just shuffling, trying to find our transition Kate. 22 proposal that we'll be voting on, on Wednesday, gets at sort of 23 the overview of what's working and what could be improved in 24 the organic transition initiative including better coordination 25 among agencies. It sounds like you need -- you're asking us to

1 do something that goes beyond that and specifically call out 2 the 823 program, is that --

MS. MENDENHALL: When the EQIP organic initiative 3 came forward, we saw similar -- it took a few years until it 4 5 was known among producers. There was a system for implementing 6 it. I think the more national pressure we can have to get this 7 going faster, the better. So a resolution specifically asking 8 the Secretary to look at this program because it has so much potential and there is a lot of interest from producers and the 9 10 rollout this year was so scattered, I think would be helpful.

11

CHAIR SMITH: Amy, please go ahead.

VICE-CHAIR BRUCH: Kate, thank you for joining us
today. Thanks for all the work OFA's doing for farmers.
Really appreciate hearing some of the upcoming working groups.

We had a comment, an oral or a webinar comment, the other day about the need for organics to reach across the aisle to some groups that maybe haven't participated in support of organic programs. I think one was Farm Bureau. I believe Roz mentioned, you know, some full-court press she was doing with, you know, Pheasants Forever and things like that.

Do you see that to be a beneficial pathway to get more attention on some of the needs that we have?

MS. MENDENHALL: Yeah, I've been thinking about that since I heard that testimony. And at first I was like, oh, the Farm Bureau. I just don't know about that one, being from the State of Iowa. But I know that some states are really
 effective. And I do think that organic is way beyond a niche
 market.

4 I think that we need to be putting ourselves forward 5 in all of the agriculture sectors and really reaching and 6 forming relationships with agriculture groups, industry groups, 7 and showing up for organic farmers where they need us. Ι 8 think, you know, we need to do that as a community. And 9 education is always helpful. Organizations have to, of course, 10 like assess their capacity and find out where are they going to So, yeah, I think, of course, when we can 11 make the most wins. 12 bring in other groups to learn more about organic and perhaps see that they have organic farmers in their area and the 13 14 benefit that they're making on environmental services in their 15 area and to communities, I think that's always a positive 16 thing.

CHAIR SMITH: Nate, please go ahead.

17

BOARD MEMBER POWELL-PALM: Thank you for your 18 19 comments, Kate. OFA has been very active in thinking about and 20 helping recruit new NOSB members. And I was wondering if you 21 could speak to how, as a community, we can chase two goals. 22 One, find representative folks who are going to come from a 23 diverse background, but also find folks who are really 24 competent and ready for this work. And how do we marry those 25 two up so that we don't set folks up for not success, you know,

on this board, but that we also hear from more people from
 different places and backgrounds?

MS. MENDENHALL: Yeah. I think it should always be a 3 4 top priority to support diversity in everything we do organic. 5 It's hard to be a farmer and serve on the NOSB. It's hard to be a farmer and like do other volunteer work in general. 6 Anv 7 type of self-employed business person, I think, feels that, 8 especially when you have like other board counterparts whose 9 time is being compensated to be here.

10 So I think whatever we can do as a community to support farmers to serve on the board, and we should maybe, 11 12 perhaps, be innovative. I do think there's opportunities out there to support, perhaps, BIPOC farmers with a fellowship to 13 serve on the NOSB during their five-year term, from foundations 14 15 who might want to help support leadership and increase voices. 16 I think we need to start linking those connections with farmer leaders that we might know in our region and finding the 17 support so that they can afford to hire somebody to do the farm 18 19 work while they're at NOSB meetings or spending the eight hours 20 a week doing the NOSB work that needs to be done.

I think we need to be thinking about the needs of English-second-language folks on the board and what kind of supports can the USDA provide, whether there's materials in their first language or simultaneous translation. Sometimes the technical stuff can just be really hard, even if your first 1 language is English. So, you know, any kind of those sorts of 2 supports that we can pull. But just encourage the community to 3 really look into the connections that we have, to find a 4 diverse set of qualified leaders.

5 BOARD MEMBER POWELL-PALM: Do you feel like we know 6 who those rock stars are that we want to recruit? And are they 7 in the organizations that are involved with NOSB? Or do you 8 think there's some recruitment and just searching that we have 9 to do still?

10 MS. MENDENHALL: I've talked to many rock stars who do not feel that they have the time to serve. So I think that 11 we all need to be looking and talking and encouraging about the 12 I think that when NOSB recommendations move faster 13 impact. 14 into rulemaking, people can see how their time served on the 15 board might make more of an effect and it might feel like they 16 can actually make more of an impact. So I'm -- it's good to 17 see these final rules coming out and I just encourage more of it so that there is sort of an impact represented for the time. 18 19 BOARD MEMBER POWELL-PALM: Thank you.

20 CHAIR SMITH: Thanks so much, Kate. Thank you.
21 Next up, Kelly Damewood, followed by Phil LaRocca and
22 then Scott Rice.

MS. DAMEWOOD: Hi, I'm Kelly Damewood, CEO of CCOF,
and I serve on the Management Committee of CCOF Certification
Services. I'm not here today with a specific recommendation.

1 Rather, I thought it would be valuable to be here in person to 2 address the board and share CCOF's internal conversations after 3 reading a recent article about a CCOF-certified dairy in the 4 media.

5 The greatest strength of organic is federal 6 enforcement. The level of scrutiny, the consequences are 7 unmatched. The greatest challenge of organic is federal 8 enforcement. The rulemaking can be slower than we'd like and 9 producers have federal due process rights.

We, as a certifier, know that the standards are strong, including animal welfare standards and we know the certification process works. We know that inspections, whether announced or unannounced, produce actionable results. We investigate any complaint that comes our way and we do issue corrective actions. And if corrective actions can't or won't be taken, an operation will be suspended.

We know that the process works. This is not a swift process. It's complex. And certifiers certainly don't have unyielding power, but that is federal due process.

The standards prohibit certifiers from sharing specific information about our clients. So what we often see happen is a lack of understanding, distrust. Folks don't see everything that's happening behind the scenes. So while we can't share specific information about our clients, we would welcome partnership and thinking about, well, how can we be 1 more proactive and at least explaining at a high level, the 2 enforcement process and educating the public about organic 3 certification?

And beyond organic certification, I just want to speak to the article in referencing itself. In the article, the reporter says, the system failed the cow. And I disagree. The system is failing the farmer. And when you fail the farmer, you fail the cow and you fail the land. And when we fail the land, we fail us all.

10 The article did not talk about the tremendous 11 economic pressure on dairy, loss of markets, loss of land, how 12 when dairy goes out of business, it's not replaced, they don't 13 come back. And the premium highlighted in the article, is that 14 really held by the farmer or the retailer?

15 So when we read articles like this, yes, as a 16 certifier, we absolutely look inward. We evaluate, is there 17 something, if anything, we would do differently or better. But as a member-based organization, we also look at the bigger 18 19 issues, the systemic issues at play, and ask, how do we support 20 the farmer? Because when we support the farmer, we support the 21 cow, we support the land. And then we truly transform our food 22 system.

23 So again, no specific recommendations today. I just 24 thought it was important to be here in person and answer any 25 questions and welcome conversation if you have it. Thank you. 1 CHAIR SMITH: Thanks so much, Kelly. Just for a 2 fellow certifier, I appreciate the context. I worked in food 3 service for a long time, probably too long. And I always said 4 that, jokingly, but in order to like, eat in a restaurant, you 5 had to show you're like, I worked in food service card. And I 6 sort of feel the same way about certification and inspection. 7 I feel like everybody should have to do their time in 8 certification and inspection.

9

Nate, please go ahead.

10 SECRETARY LEWIS: I really appreciate the sentiment and you being here in person. So in my work at the Washington 11 12 Farmland Trust, we have historically focused on conserving farmland that was being lost to development through 13 conservation easements and really had a land-focus on our work. 14 We are slowly transforming our organization to be more farmer-15 16 focused with conservation easements and land conservation being one tool in our toolbox for supporting farmers. 17 So I'm curious. It sounds like CCOF is in a similar type of dynamic 18 19 change around centering farmers. Can you talk about some of 20 the things that CCOF is doing to center farmers in your 21 advocacy work and certification work?

MS. DAMEWOOD: Yeah, absolutely. And Nate, it's been a while, but nice to see you on that side of the bench for a change.

25

It's a little bit of everything. Sometimes it's

(973) 692-0660

1 financial assistance, financial aid. Sometimes it is advocacy, 2 protecting conservation easements, protecting land. In 3 California, there can be a lot of misunderstanding from 4 environmental groups about what organic livestock impact on the 5 environment can be. Increasingly, education and technical 6 assistance, including bilingual assistance for Spanish-speaking 7 farmers throughout the State of California.

8 So it's really looking at all different angles, and it's going to depend on the farmer's need, region, and 9 10 location. But that's really how CCOF was built. So it is certification, but if we don't have farmers who are succeeding 11 12 and who are in business, we can't have organic certification. So then we have financial aid programs, and then we have 13 14 education programs and granting programs. It really is a 15 little bit of everything. So, thanks.

16

CHAIR SMITH: Wood, please go ahead.

17 BOARD MEMBER TURNER: Thanks. Thanks, Kelly. Ι 18 appreciate you having the guts to show up. We really needed to 19 hear from you today, and I really appreciate you doing that. Ι 20 mean, it's just a thing we do often in the organic movement, 21 take that criticism and put our tails between our legs and hope 22 somebody else is going to speak on our behalf. And I 23 appreciate you standing up and saying what you said today. 24 I am curious if you, and you mentioned retailers 25 specifically, and I'm curious if you think the retail toolkit

that was described earlier today has the potential to actually improve some of these dynamics and work for farmers and work for cows. I mean, are -- to me, I think it's a powerful step forward, but there's a lot of diversity among retailers and a lot of different kinds of consumers, and I'm just curious if you had any reaction to that.

7 MS. DAMEWOOD: Yes, thank you. Yeah, absolutely. As 8 much consumer education as possible, but what's also broken is how that price premium is translated down to the farm. 9 Τn 10 California, for example, the regulations keep upping and upping and upping, and organic certification, we're incredibly proud 11 12 of strengthening organic enforcement, proud to be implementing it, seeing the impacts. Absolutely, it's increasing the costs 13 14 of certification. And as these costs are increasing, how are 15 we supporting the farmer on the other end?

So in California, if we increase, increase regulation, and then the state is sourcing for their institutions from other countries or other states, then what are we really accomplishing? And so we really have to look across the entire supply chain when we're looking at rule changes, market dynamics. So it's really a little bit of everything.

And I just, you know, want to emphasize, this is very important to us. Again, the process is working, and that doesn't mean we can't do better. We're looking at our own systems. Are there different processes we might want to put in place for larger dairies, for example? You know, we're not afraid to challenge ourselves, but by and large, we're really proud of the work we're doing and can stand with confidence behind the organic label.

6

CHAIR SMITH: Allison, please go ahead.

7 BOARD MEMBER JOHNSON: Thanks for being here, Kelly. 8 I -- every time I see one of these headlines that says, you know, the real truth about organic, or, you know, here's what 9 10 you're not seeing in organic, my heart just sinks because often it's picking at the edges of a really good system and not 11 12 showing the big, big picture where organic is doing a lot better than the vast majority of agriculture. And I think one 13 14 of the reasons that these articles get picked up is that 15 consumers don't understand agriculture. You know, I'm still 16 learning every day, something new. So I think your average 17 consumer has no idea what a dairy operation looks like, period, and what a reasonable expectation of animal health looks like 18 19 over the course of an animal's lifetime, things like that.

20 So I wonder if you have thoughts about how we can 21 help consumers understand that it's not like dreamland or the 22 worst of the worst, but that there's sort of a practicality of 23 agriculture that we all should understand as consumers of food. 24 MS. DAMEWOOD: Yeah, absolutely, Allison. And what's 25 interesting, if you look at the commentary on the article I was 1 referencing, it's really more debate about veganism versus it's 2 not really organic versus conventional. It's more about the 3 value of livestock products in general. So absolutely across 4 the board, educating.

5 I just want to uphold and commend the Organic Market 6 Development Grant Program. And we'll be launching the first 7 national digital streaming advertising campaign, really 8 uplifting the organic certification process, trying to do it in a non-wonky way and speak to maybe folks outside of this room 9 10 about what does organic mean. And we need to step that up beyond, I mean, we need to be on digital platforms and we need 11 12 to be thinking like strategic marketing professionals. And that's an increasing area of investment for CCOF. And I want 13 14 to commend all of those working to establish funding for this 15 grant program through the farm bill. And I can't think of a 16 more exciting and more important farm bill priority than the 17 Market Development Grant.

18 CHAIR SMITH: Thanks so much for being with us,19 Kelly.

MS. DAMEWOOD: Thank you, Kyla.

20

21 CHAIR SMITH: Up next, we have Phil LaRocca followed 22 by Scott Rice and then Charles Benbrook, and then we're going 23 to take a break.

24 MR. LAROCCA: My name is Phil LaRocca. I am a 25 longtime organic farmer, first certified in 1975. I've been the owner, winemaker, grape grower for LaRocca Vineyards for 44 years. I sit on the California Organic Product Advisory Board and I am the Chairman of the Board of Directors for CCOF. And I think Kelly did a pretty good job. I had a couple of comments to make, but I'm going to hold it with her there.

6 I'm going to make a few comments on some winemaking 7 materials that you're going to look at. One is yeast, which we 8 use for fermentation. The other is malic acid, which we use as 9 a secondary fermentation, i.e., a bacterial fermentation. And 10 the third is parasitic acid, which is extremely essential to 11 organic winemakers and beer makers.

12 The next point I want to bring, which kind of 13 coincides with hers, is the importance of marketing organic for 14 everybody. We -- I have a 12-member -- 14-member board. We 15 are divided up into regions in the state of California, 16 California being a major player in the organic industry.

Every region, every representative on my board comes back saying we need marketing and we need the consumer to be educated. When I have one of the largest stone fruit growers in the nation come and call and say, Phil, I'm going to get more money by selling this crop conventional than I am organic, or I have a small grower come and say, I can barely hang on, that's totally unacceptable.

And I want to make a point on the small grower right now. Everybody in this room is here because this industry was built on the back of the small farmer. It's a small family farmer built this organization to where it is today, back in the 70s. And then mentioned earlier, Bill said we're a \$79 billion company.

5 Well, let's look at this. That means people are 6 spending \$79 billion on organic product. We need to look and 7 say, why are they buying this product? Are they buying it because it's healthier for the environment? Better to fight 8 climate control? You know, is it healthier for people? 9 I like 10 to use the term, pay the farmer, not the doctor. Is it better 11 because it just tastes better?

Well, the answer, I think, is all of the above. And we need to get that out to the consumer. We've always been afraid to say that we're better. But we are better.

I wouldn't -- if you're an organic farmer, we take so many risks that we could solve. You know, if you have a weed problem, I got to go with a mechanical cultivation or I got to go with hand cultivation. If I went in with my glyphosate, bada bing, problem over. We go through a lot. And we need to tell that to the consumer that this is what this extra premium is.

And the word premium kind of irks me a little bit. There really isn't a premium. Like when we're putting a new vineyard in, I'm going to bring 20 people out with hoes and weed eaters. Or again, I can go with a tractor and glyphosate,

1 take care of the problem. So there's not premium. 2 What we get is -- the money we're making is just the 3 cost of doing business organically. And we need to get this 4 out to the public. We need to say we are better. There's a 5 reason why you're buying organic because obviously you think 6 it's better or you wouldn't be spending \$79 billion a year. 7 And we shouldn't be afraid to say that. 8 CHAIR SMITH: I love it. Amy, please go ahead. 9 VICE-CHAIR BRUCH: Yeah, thanks, Kyla. 10 Phil, thanks for joining us today. Thanks for your strong message. Really appreciate hearing your comments. And 11 12 I do agree with your comment on the price premium. I -- it's a cost of doing business. And there's a lot that goes into 13 14 growing organic foods and so I don't know if price premium is 15 quite the right term we need to be using. So I thought that 16 was a good point. I wanted to ask you, earlier today we heard from 17

Dr. Jenny Tucker about some of the early wins with the SOE, 18 19 Strengthening of Organic Enforcement Act, and how that related 20 to wine. With our equivalency partners through the SOE, they were noticing some of the imports we were receiving actually 21 22 had ingredients that were not allowed for organic production in 23 So can you just talk the impact, the early impact the U.S. 24 that you've seen in the area from some of those SOE wins? 25 Absolutely. We had this dialogue last MR. LAROCCA:

year. And what is hurting the organic wine market right now is imports coming in, especially from Italy and France. Now, besides the fact that they were not being -- playing fair, and I know this because I helped write the rule. And again, in winemaking, they were cheating, basically.

6 But the other problem that we have to deal with, and 7 I don't know if this board necessarily can, is that those grape growers and winemakers are subsidized. We are not. So we have 8 9 to deal with issues of they're given a guaranteed price in 10 Italy for their wine or their grape, whether they want to do Imports coming in from Chile and Argentina, I was just 11 it. there a couple years ago, they're paying their labor \$10 a day. 12 In California, we're at minimum wage right now at \$20 an hour. 13 14 So those are the problems that we have in the wine industry.

We're doing fine here. It's cheap imports coming in that are being subsidized and perhaps cheating that is hurting the cause.

18 CHAIR SMITH: Nate, please go ahead. 19 BOARD MEMBER POWELL-PALM: Phil, I say this with all 20 due respect. You were made for TikTok, man. Like, you could slice and dice just three minutes up. It was great. 21 I really 22 appreciate how many good one liners you had built in there. . 23 MR. LAROCCA: I am the worst computer guy on the 24 planet, yeah. You know, I can grow most things.

25

BOARD MEMBER POWELL-PALM: We'll get you a little

1 millennial to make that happen.

2 MR. LAROCCA: I'm my own IT guy from CCOF. That's 3 how bad I am.

BOARD MEMBER POWELL-PALM: Well, thank you for everything you said. I was -- I have two questions for you. The first one is, do you think it's a good path forward to think about how every raw ingredient we send to the EU or to Canada, they test, or a lot of what we send them, they test. And we test very little that's coming from them to us.

Do you think just plying catch up, that might be a way just to understand what's coming over as we figure out this market condition we're currently experiencing?

I agree with that as long as it doesn't 13 MR. LAROCCA: 14 increase the price to our American growers, as long as we don't 15 have to see a price increase. As Kelly and I were talking 16 earlier, I think it's costing us 80,000 bucks to get into our new program, which I do think it's worth it. But again, we're 17 getting, as a matter of fact, just yesterday at NOC was the 18 19 first time I heard, we've always been grumbling about paying 20 certification costs, but the grumbling is a little bit stronger these days because I think we're all experiencing a hard market 21 22 right now.

Literally, when I -- we have the largest carrot grower in the United States on our board. And when they start saying we need marketing, you know, we need marketing. We need 1 to promote organic.

2	BOARD MEMBER POWELL-PALM: Absolutely. And the
3	second question I have for you, and this is sort of, in this
4	room, I would say better than anywhere else in agriculture,
5	we're good at coming together. And you gave us so many good
6	takeaways for the message we should be getting out to
7	consumers. How do you think we start to organize, to pool
8	funds in order to make that messaging campaign a reality?
9	MR. LAROCCA: Well, I think, quite frankly, if you're
10	asking me, I think the organic farmers should be subsidized by
11	the federal government, because I think we're doing such a good
12	job keeping the planet healthy and people healthy.
13	But the toolbox was a good thing. I thought the
14	toolbox was lacking a little bit, and I don't know if this is
15	the correct word, but passion. I think we should come out and
16	say what I said earlier. This is our process, but we're doing
17	this process because we're offering you a product that is
18	healthier for the environment, healthier for human beings,
19	generally tastes better, et cetera, et cetera.
20	BOARD MEMBER POWELL-PALM: I can't thank you enough
21	for being here today. Thank you.
22	CHAIR SMITH: Thanks so much, Phil. Appreciate your
23	time.
24	Oh, sorry, Jerry, please go ahead.
25	BOARD MEMBER D'AMORE: I would personally like to

1 thank you very much for saying it, yourself, to this board that 2 there are some things we just can't do. You'll never know. 3 Well, maybe you can guess. But I have colleagues here with 4 whom I have spoken untold hours about how we affect the market 5 and how we can possibly change things. And the passion 6 illustrated by some of my colleagues is extraordinary.

But at the end of the day, there's some things we just aren't supposed to be doing and we would not be effective running that path. A lot of things we can do, but it's -- as a producer to come up front and say, hey, I understand there are things that you don't do. That's refreshing and I appreciate it.

MR. LAROCCA: Thanks, Jerry. Appreciate it.
BOARD MEMBER D'AMORE: Yeah. Thank you.

15 CHAIR SMITH: Okay. Thanks. Up next, we have Scott 16 Rice followed by Charles Benbrook. And then we're going to 17 take a break.

MR. RICE: Good afternoon. Thank you for this
opportunity to speak with you. My name is Scott Rice and I'm
the Senior Director of Regulatory Affairs for the Organic Trade
Association.

OTA is a member-based organization representing organic businesses across North America, from farmers to handlers, retailers to manufacturers. OTA's mission is to grow and protect organic with a unifying voice that serves and engages its diverse members from farm to marketplace.

1

Having served on the board, I can appreciate the 2 3 perspective of both sides of this table. As a board member, 4 you have the desire to push forward on important work that is 5 near and dear to you across a term that passes far too quickly. As a stakeholder, there is desire to carefully consider all 6 7 your good work and give it the attention it deserves. But just 8 as your five years passes before you know it, so does the 30-9 day comment period and three minutes.

10 Simply put, it's not enough time, and no matter how well and I and my organic colleagues give it its due, we'd love 11 12 to give it more. I'd like to echo the comments the other day from Mike Dill, who brought some great ideas for addressing 13 Let's look for ways to further these conversations we 14 this. 15 have twice a year, an open and even more fruitful dialogue through listening sessions, town halls, the open docket, and 16 other great ideas waiting to be voiced. s we noted in our 17 written comments, we'll be gathering members this spring and 18 19 summer to inform comments on the compost and roots discussion, 20 and look forward to sharing the outcome of those discussions 21 with you via the open docket before you finalize your 22 materials.

Listening to the many hours of public comment in the last couple of weeks, it's clear that despite having grown this industry to historic levels, we still have work to do. Work to get more producers to transition more acres and keep them there. Work to keep existing organic producers in organic. Work to educate consumers on what organic is, the value of the seal, and that it continues to represent what they have come to expect.

We often hear mention of the importance of the 6 7 public-private partnership that sets organic apart from other 8 systems, and rightly so. It is by working together, producers, 9 certifiers, USDA, organic stakeholders, that we have grown this 10 movement. But as we implement SOE with its potential for increased record keeping and see FSMA traceability requirements 11 12 come into force, we see, as we see producers working harder than ever for that organic dollar, as we navigate the challenge 13 14 that a price premium presents for access and wide market 15 adoption, there is opportunity for this public-private 16 partnership to work just as hard toward consistency, a sound 17 and sensible approach, and a fair and equitable playing field.

OTA is working to build bridges between regulation 18 19 and practice, and is piloting an organic regulation guideline 20 program, the goal of which is to provide actionable, practical 21 guidance to the industry that is aligned with NOP and 22 This program offers the development of a certifiers. 23 structured pathway to compliance and collaboration to bring 24 uniform implementation of standards. We look forward to 25 sharing more on this soon.

Thanks for all your hard work, and have a great week.
 CHAIR SMITH: Thanks, Scott. Questions for Scott?
 Carolyn, please go ahead.

4 BOARD MEMBER DIMITRI: Hi, thanks very much for your 5 comments. I have two thoughts. So one is, I've heard several 6 people say, like, we should have more meetings, more, like, 7 town hall things kind of spread out over the year. But on the 8 other hand, we have these discussions about how this is really a burden, especially for farmers and underserved farmers. 9 So 10 one is, like, I don't see how those two things can both happen. 11 That's one.

12 And then, the other comment I have is, I think about OTA, you're kind of in a unique position in terms of you really 13 14 can interact with processors and handlers and a lot of the 15 companies that have a fair amount of bargaining power over 16 farmer producers. And then I think about organic seed, and I think about the Organic Seed Alliance report that says one of 17 the main barriers to using organic seed is that the processors 18 19 are requiring farmers to use seeds that don't have an organic 20 version.

21 So, like, as a trade association, how do you see your 22 role in trying to, like, improve processor behavior in terms of 23 making, like, a higher quality supply chain? Thank you. I'd 24 love to hear what you had to say on either or both of those. 25 MR. RICE: Just a few things in there. Thank you. I

1 think you're right. We are in a unique position, and that's 2 where I think we see this idea of a regulatory guideline 3 program really serving that conversation and bringing all of 4 the concerned parties to the table where maybe some other 5 avenues are not as easy. For instance, a direct conversation of those folks with their certifier is there's some hesitancy 6 7 there where a producer may, you know, feel exposed or they'd 8 say the wrong thing to get them in trouble or and certifiers, 9 of course, can't consult. So, absolutely, we see a lot of 10 potential for this idea that we're working on and other ideas 11 as they come from it. So, thank you. 12 Okay. CHAIR SMITH: Thanks, Scott. 13 MR. RICE: Thanks to everybody. Charles Benbrook. 14 CHAIR SMITH: 15 MR. BENBROOK: Hello. Thank you. Chuck Benbrook.

Ι 16 work through my consulting company, Benbrook Consulting Services, and I'm here today on behalf of the Org Tracker team. 17 Org Tracker is a new system we're building to hopefully bring 18 19 together and compile the residue data that certifiers are doing 20 under the NOP rule and running that data through the Dietary 21 Risk Index system, which I've built over my career, to be able 22 to provide back to the certifiers, to the NOP, to food companies, detailed information about where the real risks are 23 24 in the food supply, not just the organic food supply, but the 25 conventional food supply.

1 The power that we have now analytically to understand 2 where the risks are, where they're coming from, how they were 3 grown is -- it's really moved a long way in the last few years. 4 My team has done the analytical work supporting the last five 5 Consumer Reports cover stories going back to 1999, including 6 the most recent one for the Consumer Report story that came out 7 just a couple of weeks ago. We generated over 60,000 pages of 8 tables, very detailed tables, ranking risks in different foods, different pesticides. 9

We now can literally rank all of the residues found by the USDA's PDP program in a year from the highest risk, so this will be bifenthrin in broccoli or glyphosate in corn, from the highest risk sample to the lowest risk sample. And the span of dietary risk is about 10,000-fold now.

15 And what this new analytical ability has really 16 driven home to me and other people that have -- are using it is 17 how important it is to focus on the very few high risk samples that are in the food supply. We know what foods they are, we 18 19 know where they're grown, and we know what pesticides are being 20 And we've calculated that if we could target the 1 used. percent of crops in the United States contributing most 21 22 significantly to pesticide dietary risk, we could get rid of 90 23 percent of the risk in the food supply. And as we put out data 24 and information to the public, to regulators, to food 25 companies, and convince people that this is possible, we're

1 hoping that people say, you know, that kind of seems like a 2 good idea. You know, why not?

In terms of the policies that NOSB and NOP are 3 4 facing, with Cathleen Merrigan and Brian Baker, Mark Lipson, 5 and myself, we've done detailed written comments in several 6 rulemakings and for this meeting about suggestions on how to 7 move forward on inerts, which I think is doable now. I think 8 there's kind of a consensus building around an approach. And 9 we're going to do whatever we can to help that as it moves 10 Thank you. along.

11

CHAIR SMITH: Nate, please go ahead.

12 SECRETARY LEWIS: Hi, Chuck. You mentioned that you're gathering results from certifiers as part of their 13 14 periodic residue sampling, which is a obligation that 15 certifiers have to the public as part of the 7 C.F.R. at 270 -at 670. Can you tell me if you've had -- tell me your 16 17 experience on getting those results. And since we are working on a residue sampling topic right now, whether we could suggest 18 19 guidance around how those results are made available to the 20 public to more, you know, to expedite that or make it -- you 21 know, I acknowledge there's a number of concerns related to 22 exposing ongoing investigations and all those sorts of things. 23 But if you could share experience and suggestions in your 24 interactions with certifiers, that'd be great. 25 MR. BENBROOK: Well, so we've -- the idea came up

actually two or three years ago to do this, but it's taken some time to raise some money and to be able to do it. We are building the system now. We're going to, probably in just the next two or three months, do the first analytical work with certifier data. We haven't found a certifier yet that we've talked to who has said, no, we're not going to work with you.

7 What -- we're a bunch of pesticide junkies. This is 8 what I've done for 35 years. The organic community, the USDA, 9 the American public can get a hell of a lot more bang for the 10 buck out of the money being spent on residue testing under the 11 NOP rule. And we want to make that possible. We want to show 12 people how that can be done.

And I just, you know, I love Phil's comments. 13 I qot into this game in 1980. And back then, the reason consumers 14 15 came to the organic marketplace was to reduce pesticide dietary 16 risks. And as far as I know, that's what most new consumers 17 for organic cite now as their major reason. And it seems to me that driving home the significant public health benefits that 18 19 are associated with eating organic food and particularly fruits 20 and vegetables. That's where most of the pesticide dietary 21 risk is coming from. There's a hell of a story. And it has 22 frankly not been a priority for the U.S. government to share with the American public how much safer organic food is for 23 24 you, especially if you're a young family having children and 25 raising kids. It's a no-brainer to feed young children organic

1 food. Why are we not doing it? It's a real policy failure. 2 And I do want to share, I follow the science on 3 pesticides and public health very closely. Things are moving 4 There are new scientific tools that are linking very fast now. 5 contemporary levels of exposure to pesticides in food to 6 adverse health outcomes. And, you know, the interest of the 7 consuming public in how organic affects pesticide dietary risk 8 is only going to grow. I'm quite sure of that. 9 CHAIR SMITH: Allison, please qo ahead. 10 BOARD MEMBER JOHNSON: Thank you so much for being here, Chuck. For those in the room and online listening who 11 12 don't know Chuck's work, we have a lot to be thankful to you for anyone who cares about pesticide issues. We've all really 13 14 benefited from your dedication and work over the years. So 15 thank you. 16 I have two questions for you. The first one, you 17 know, my mind jumps back to the transition presentations that we heard this morning. So it sounds like you're saying we have 18 19 pretty good accessible tools now for identifying foods that are 20 high-risk for high levels of dietary pesticide exposure. 21 MR. BENBROOK: Yes, we do. 22 BOARD MEMBER JOHNSON: Do you think there's a 23 relatively easy path then to try to link up that information 24 annually or every so often with our transition efforts so we 25 could be focusing on the highest risk crops to transition to

1 organic?

2 MR. BENBROOK: Absolutely. One thing to understand, 3 we get PDP data two years after it's collected. So we just got 4 the 2022 data in February just in time to build it into our --5 the analysis that was in the Consumer Reports story that came 6 out two weeks ago. But certifiers, you're out there, you're 7 testing samples, sometimes tissues, whatever, and getting 8 results much closer to when that food is going to go to the 9 consumer. And that makes it possible to have an early 10 response.

For example, the -- one of the scary samples that 11 12 showed up in the 2022 PDP was an organic green bean from Mexico with like the third highest level of methamidophos of any of 13 14 the green beans tested. I mean, this organic sample from 15 Mexico was like the 13th riskiest sample of all of the PDP 16 crops in 2022. Obviously, not only a conventional crop, but one where they really poured the methamidophos on the green 17 beans, which is illegal in the U.S., but it doesn't get picked 18 19 But yeah, we have really remarkable ability to -- for the up. 20 crops that get tested by the residue testing programs. And as I said, you know, it -- most of the risk is in fruits and 21 22 vegetables and juices and purees and frozen and canned, et 23 cetera.

But there's some other areas that are increasing.Herbicide residues and risks are definitely increasing and are

a big problem. But we're going to do everything we can to
bring these new tools and insights to the entire organic
community and definitely to the consumers because at the end of
the day, when consumers start demanding organic fruits and
vegetables, that's the way it's going to, you know, that the
farmer's going to benefit, the land, and so on.

CHAIR SMITH: Amy, please go ahead.

8 BOARD MEMBER JOHNSON: Oh, sorry. Yep. If you9 could, Amy, come back to me.

10

11

7

CHAIR SMITH: No, just go.

VICE-CHAIR BRUCH: Go ahead, Allison.

12 BOARD MEMBER JOHNSON: Thank you. So the follow-up 13 question is, you know, I agree with you that consumers are 14 primarily or predominantly driven by their own personal risk 15 from eating food. But we all know that the environmental risk 16 of pesticides is an extremely pervasive threat for farming 17 communities, to our environment, to our pollinators. And I'm curious if there's an analogous data set or another way to 18 19 identify top risks in the environment that could also help us 20 target efforts.

21 MR. BENBROOK: The -- obviously, there are so many 22 components in the environment. All of the, you know, organisms 23 that live up and down the tree of life, they live in different 24 habitats. So the circumstances and degree to which pest 25 management systems and pesticide use adversely affects the environment and the critters that live in environments, it's super complicated and very place-based. So it's hard to, at a national policy level or even a state policy level, to have -to conceive of a coherent way to go about tackling it.

5 But I'll tell you, this country is way too reliant on 6 herbicides. There -- does the average person in this room know 7 that the average American is peeing out about six herbicides a 8 day, year round? You know, and if you take all pesticides, 9 including the neonics and the triazines, it's probably eight to 10 pesticides are leaving our body every day.

And sure, the levels are low. And fortunately, they are not damaging our DNA so much that, for example, we can't reproduce anymore. That would kind of suck, wouldn't it?

14 But it's just, on the environment, it's just too much reliance on the chemical toolbox and not enough reliance on 15 other things. You know, the biggest thing that could happen, 16 you know, is to get a third crop into the Midwest. You know, 17 until that happens, no really meaningful change is going to be 18 19 possible in a corn/soybean system. It's just not possible. 20 You know, people have been saying that for 50 years, and it's 21 as true today as it was back then.

CHAIR SMITH: Okay. I have quite the list. Please be succinct. We are running over time, and we have a reception to get to, folks. So let's not forget our priorities here. Just kidding.

1

Amy, please go ahead.

VICE-CHAIR BRUCH: Yeah, Kyla, thank you. Chuck, thank you for being with us today and lending all your talents to this important area of testing. It's something that we need to dive in further.

6 I was just hoping you could comment on the innovation 7 that could potentially happen in the private sector for speed 8 of results. So when folks are sending these lab samples in, 9 you know, we're waiting a week, 10 days at a time, to 10 understand what's going on. Is there any innovation happening in the private sector to accelerate that information exchange? 11 12 I know at least one data point I have in soil sampling, there's 13 a company that has a probe that you insert in the ground and 14 you can get the instantaneous macro/micro data of your soil. 15 So I didn't know if that sort of philosophy is happening in the 16 testing space.

MR. BENBROOK: So, I didn't think there's been near as much interest in the private sector among, you know, venture capitalists in investing in better pesticide residue testing and understanding where the risks are. It's just a -- it's an orphan area. I mean, just think of it.

I mean, why was it left to me and my colleagues over the last 35 years to build this tool? Why didn't Google or Amazon or one of the other information technology firms do this? They have the experts. They have the hardware. It's just -- there just isn't the interest in it. So, and that's why we can progress so fast if we actually start to use the capabilities that are now available to us.

And for the organic community, you've got to show that you're using this residue data to deal with problems in real time. So yes, then it becomes very important that you have solid chain of command of information and rapid communication of information to the people that are able to act upon it in a constructive way. And I have some ideas to share down the road with everyone on that front.

11 CHAIR SMITH: Brian, please go ahead.

VICE-CHAIR BRUCH: Thank you.

12

BOARD MEMBER CALDWELL: Yeah, thanks, Chuck. I just wanted to add my voice to the appreciation for the work that you and Dr. Baker and Dr. Merrigan have done over the years. Really fantastic stuff.

We've got this focus right now on residue testing for imports, to try to arrest fraud. And I don't want all this amazing stuff that you're talking about right now to kind of get lost in that shuffle. So I would encourage, if possible, for you to maybe make some targeted comments about that, because I'm sure your expertise would help with that.

You know, I'm thinking of, you know, glyphosate
residue, whatever. I'm sure you know way more about it than I
do. But also, over the long run, to just keep on, and I -- I'm

sure you will. But I just wanted to say, we really need you to keep on giving us this message, because we'll have more bandwidth for all the implications of what you're saying, you know, in future meetings as well. So thanks. Thanks again so much.

MR. BENBROOK: 6 Thank you. You know, I felt for a 7 long time that the one thing that could really rapidly grow the 8 organic industry, and again, mostly in fruits and vegetables, because that's where the dietary risk is, you know, is getting 9 10 the government out of the way, frankly, of the marketplace. The reason that the American consumer and consumers around the 11 12 world don't understand how much healthier organic food is, it's government policy. It's -- that's what's holding it back. 13

And I'm using government data to do my analyses, but the government doesn't want to go there, because there's too many powerful forces in the food system that don't want to look under this rock. And they've been successful in sort of keeping pesticides out of certification programs.

And, you know, there really hasn't been much positive change in the pesticide use and risk arena, because of the clout of agricultural commodity groups with the agribusiness groups. But the dam's going to break. The dam is going to break, because there's a lot of people that their families have experienced adverse health outcomes, that science is beginning to tie back to typical levels of exposure in, you know, in food and in water. So I -- I'm hopeful that I can stick around long
 enough to really begin to see the change.

But, you know, I'm going to challenge the, you know, 3 the people in USDA, FDA, EPA, you know, to stop being afraid to 4 5 say that organic is such a better way to grow food. It's 6 safer. In Washington State, where I live, 80 percent of the 7 true food industry could go organic in five years. There's 8 nothing holding it back except market demand. Everybody agrees 9 with that. So why is there no -- why isn't the market demand 10 there?

People don't understand the difference, because every time, you know, somebody publishes a paper or the government tries to do something, there's this onslaught of PR from the conventional industry that just drowns everything out. And, you know, it's -- they're very good at it. And until we find a way to make our voice pierce through that cloud, it's going to be an uphill struggle.

18

CHAIR SMITH: Jerry?

BOARD MEMBER D'AMORE: You've intimidated me in asking me to be brief. I'll bet that the term, if you don't measure it, you can't manage it, means a lot to you.

22 MR. BENBROOK: Yes, sir.

BOARD MEMBER D'AMORE: Okay. And listening to you, there's a lot of, in my mind, very exciting things that you've touched. And my question will be is, where do you begin taking 1 your measurements?

2 The reason for the question is, I'm wondering at what point you're going to actually get to predictive analysis as to 3 4 what's going to happen rather than waiting for someone to say, 5 what do we have here? Does that make sense to you? MR. BENBROOK: 6 Sure, yeah. 7 BOARD MEMBER D'AMORE: And then, so, and then the 8 next step for me and another passion of mine and many members 9 of this board, I think you've got a golden opportunity to 10 address food waste in this thing, too. Thank you. So, all of you know that, you know, in 11 MR. BENBROOK: 12 1996, Congress passed the Food Quality Protection Act, huge new 13 law, strong new powers for EPA, targeting the OPs and 14 carbonates, which were the developmental neurotoxin 15 insecticides that people were concerned about back then. And 16 if you look at what has happened, is the highest risk OPs and 17 carbs, starting with methyl parathion, were driven off the market, but then farmers just went down the line to the next 18

19 one and the next one and the next one.

And in this recent analysis that we did, OPs and carbs are still the risk drivers. It's just different ones. And so we -- we've, in the pest management and pesticide risk arena, we've got to use the insights that this data provides to us. I mean, I can just show you some profound failures in the current policies. Things that we all have grown up believing 1 are true, that simply aren't true anymore. And so somehow 2 we've got to find a way to get this information out and have, 3 you know, practical solutions to move forward. And, you know, 4 I think the organic community needs to take care of business in 5 its backyard first. And I see some real opportunities. Ι 6 think Org Tracker, as it gains functionality, it's really going 7 to make it clear where your issues are. And that should help 8 target corrective actions to deal with them.

CHAIR SMITH: Okay. Franklin, last question.

9

10 BOARD MEMBER QUARCOO: All right. I want to go in a slightly different direction. Does the consumer also play a 11 12 role in all of this? Because this demand for blemish-free 13 fruits and vegetables puts a lot of pressure on farmers. So I 14 know that the consumer is seen as a victim, but does the 15 consumer also bear part of the responsibility? Because that 16 much pressure on a farmer to grow a fruit or vegetable in an area that has high pest incidence, and yet you are expecting 17 A tiny hole on that fruit or vegetable, that's 18 blemish-free. 19 unacceptable. But if it's completely clean and looking, but 20 heavily loaded, then we buy. So is the consumer also part of 21 the problem?

MR. BENBROOK: Sure. And processes are part of the solution because there are other ways to use fresh fruits and vegetables that aren't going to make the grade to be sold, you know, fresh. So it's a super complicated challenge that's obviously been on the table for my entire career and it will remain on the table. So I think it's something that we've just got to keep plugging away at.

4 But you kind of have to feel sorry about consumers. 5 I mean, look at what they're being barraged with. PFOS and 6 microplastics and so many other things that they're reading 7 about on a day-to-day basis. It has to be hard for a lot of 8 people to kind of keep track of what really matters. And that's just -- that's a byproduct of this information overload 9 10 that we have. And the fact that so many interests have found ways to, through social media and other mechanisms, to kind of, 11 just to be really blunt, pollute the information space that's 12 out there with a lot of misinformation. 13

Kyla, I've taken enough time.

14

18

20

15 CHAIR SMITH: Yeah, thanks so much, Chuck. We are 16 taking a short break. 4:40, that's eight minutes. Move quick, 17 people. Up next, we have Steve Ela and then John Foster.

BREAK

19 PUBLIC COMMENTS, CONTINUED

CHAIR SMITH: Take your seats, please.

21 Okay, Steve. Don't forget to state your name and 22 affiliation.

23 MR. ELA: Good afternoon. I am Steve Ela and I'm 24 both an organic fruit grower. Since 1996, I've worked with the 25 National Organic Coalition as their NOSB specialist and 1 occasionally I've been known to be on the other side of this
2 fence.

3 So, today I would like to speak to the discussion 4 documents on compost and inert ingredients and organic 5 pesticides. And I might also like a discussion with Dr. Tucker 6 on how you use trademarks to enforce protection of nock-nock 7 jokes.

8 The NOSB is the deliverable body that determines the 9 standards we use and protects the integrity of the organic 10 seal. Sometimes we have to step back from an immediate action and decision at hand and think about some of the overarching 11 12 principles of organic production: farming as an ecosystem, protecting health, which includes me, my family, our farm 13 workers and consumers, minimizing synthetic inputs and farming 14 15 in a way that protects the environment for the future. I ask you to do the same with your discussions at this meeting. 16

A big picture view is particularly needed as we 17 discuss the proposed revisions to the compost standards. 18 While 19 on the one hand, allowing these synthetic compostable materials 20 seems to be an environmental step and a closing of the loop on 21 our food delivery system, but a deeper dive and a step further 22 back shows that this intentional allowance of synthetic 23 materials, when we can easily make compost without them, would 24 actually provide yet another avenue for contamination of 25 organic land. These synthetics are not necessary for organic

1 production.

25

2 The actual ASTM standards for compostability are not 3 100 percent. And we heard earlier about all these standards. 4 They only note that waste must disintegrate, not degrade, so 5 that 90 percent of the material can pass through a two 6 millimeter sieve. These synthetic materials may not completely 7 be broken down, but just reduced in size. And furthermore, 8 biodegradability standards are also not 100 percent. It is easy to cite and feel good about ASTM standards without 9 10 acknowledging that they do not guarantee complete compostability or biodegradability. 11

12 Secondly, these synthetic compostable materials contain plastics, which degrade into micro and nanoplastics. 13 14 We're rapidly learning about the negative impacts of micro and 15 nanoplastics and their serious implications for human health, 16 as well as adverse impacts on plant microbial communities are documented in our written comments. Allowing the intentional 17 addition of these synthetic materials to organic land would be 18 19 a grave mistake, and I haven't even mentioned the PFOS issue.

20 On a different note, NOC urges the board to list the 21 inert ingredients in organic pesticides individually on the 22 National List. We've talked about this in our written 23 comments, and we've talked about it before. We've outlined a 24 stepwise approach that can accomplish these goals.

And finally, I want to thank you for allowing these

1 in-person oral comments. While I can say more, if we can 2 continue to develop and encourage local and regional people to 3 give you face-to-face comments about where we are meeting, I 4 will gladly yield my spot here in doing virtual comments. And 5 I would also say the humor is absolutely priceless. 6 Kyla, would you honor me with a nock-nock joke? 7 Nock-nock. 8 CHAIR SMITH: Who's there? 9 MR. ELA: Sell. 10 CHAIR SMITH: Sell who? Celery. And while I bet you thought I was 11 MR. ELA: going to talk about celery powder, we urge you not to allow the 12 13 crop's petitioner to sell rye pollen extracts. They're not 14 organically grown. 15 BOARD MEMBER D'AMORE: That was some heavy lifting, 16 Fred. 17 CHAIR SMITH: Okay. 18 MR. ELA: Oops. 19 Nate, then Allison, then Mindee. CHAIR SMITH: 20 I'd say don't quit your day job. SECRETARY LEWIS: 21 No, I read in your in NOC's comments about the compostable plastics, a big focus on not wanting to, you know, organic to 22 23 support a single-use reality, single-use plastics concept. Did 24 the -- did your members weigh the potential benefits of 25 allowing in a very narrow use pattern of compostables, i.e.

fruit stickers and plastic liners? Did you sort of
 differentiate those uses in your conversations?

MR. ELA: I think the bottom line is we know there 3 4 are the unintentional components, but this is intentional, and 5 this is an intentional addition and allowance for synthetic, 6 and that is a very big difference. And I would also say it 7 kind of comes back. You know, we talk about closing the loop, 8 but it depends on an ecosystem analysis of what loop are you 9 closing? Our real problem is single-use plastics. And, you 10 know, getting rid of those single-use plastics would be a much better solution than saying, how do we get rid of these because 11 we've created a problem, how do we get rid of it? 12

The other thing I would say is, you know, we've 13 14 talked about cost. Well, who's paying the cost? If we're talking about PFOS and like the state of Maine going back and 15 16 suing PFOS manufacturers for the cost, why aren't we having the 17 manufacturers of these materials pay the cost of figuring out how to dispose of them, rather than having us as organic 18 19 farmers or consumers pay that cost? So I think we need to step 20 back and say, whoa, we should not add things that can 21 intentionally contaminate organic ground. And the PFOS stuff 22 with biosolids, I mean, you know, we can go back to conventional UDT and all these things are so many instances. 23 24 Don't create an avenue that just exposes us to the future. And 25 that's the precautionary principle.

about carbon-to-nitrogen ratios and the nitrogen role at Burke Court Reporting & Transcription (973) 692-0660

2 BOARD MEMBER JOHNSON: Thanks for your comment, 3 In NOC's written comments, there was a section on the Steve. 4 nutrient vitamins and minerals listing and the request to 5 delist it because of concerns about allowing in materials that 6 shouldn't be coming in. I wondered if you have any specifics 7 that you could share that are of particular concern. 8 MR. ELA: You know, I can't list, you know, vitamin 9 That's -- yeah, I don't have that experience and we don't Χ. 10 have time to take that deep enough dive. But it is the same problem with any of our listings that are groups. 11 And I think 12 the big concern of NOC members is that there were, within that listing, there were vitamins and minerals that have been 13 14 reviewed that may or may not be allowed at this point within 15 that group listing, that if they were reviewed individually 16 probably would not be allowed. And then it comes back to is it essential? And the essentiality, is it required by FDA? 17 Or is 18 it part of a healthy diet? And so, you know, what is 19 absolutely necessary and keeping synthetics at the minimum that 20 we can. 21 Mindee, please go ahead. CHAIR SMITH: BOARD MEMBER JEFFERY: Thanks, Steve. 22 I was 23 wondering if you could step back in time and be the farmer who 24 was the board chair who hung out and talked to this retailer

Allison, please go ahead.

1

25

CHAIR SMITH:

243

1 length. Thank you for that. Because I'm thinking about the 2 time, you know, considering the three-to-one implication and 3 considering the no more than 20 percent of a crop nutrients and 4 we're looking at crop systems and we're thinking about systems 5 approach to growing crops. And then we're come forward in time 6 and we're looking at compost now and we're asking questions 7 about carbon-to-nitrogen ratios.

8 I'm just a little worried about future innovation 9 coming up with some really amazing, you know, biological 10 breakdown of products that result in some inputs that we might find questionable again, much like we had the debate about the 11 12 ammonia extract. And I just wanted to hear your thoughts on whether you think the -- because we heard in public comments 13 14 that a lot of composters see the carbon-to-nitrogen ratio as a 15 best management practice and not necessarily like a 16 requirement. And so in that world, do we have consistency Do we need guardrails? 17 problems? Is there a lowest amount carbon-to-nitrogen ratio that sort of sets us in that and any 18 19 amount of responding to that you want to do?

20 MR. ELA: Yeah, that's a tough one. I mean, I think 21 they -- those standards have benefits. Where the exact line is 22 drawn, you know, you can argue. And I think it's like with 23 organic, you know, what's organic, what's not. You finally 24 make a line and say, no, this is the line and you can argue on 25 both sides, but you draw a line. 1 But I don't think having no standards around that 2 would be a good idea. And just for the reasons you said. 3 Compost was -- has been part of a soil building program and he 4 wanted to have a carbon-to-nitrogen ratio that is going to 5 build soils and not just be a fertilizer source. And in fact, 6 you know, for the most part, compost is not usually a great 7 fertilizer source in terms of nitrogen. So I'd rather see it 8 as being part of a soil building process and have the seed and 9 ratio be at a level where that is guaranteed.

And with the nitrogen stuff, we went after the most -- the worst, most hot materials. But even above threeto-one, they're still pretty hot materials, but that just was a natural break point between kind of mineral nitrogen and protein nitrogen. And I think compost, there's probably some break point there too.

BOARD MEMBER JEFFERY: So just so I'm clear, you're not saying a number, but you are saying guardrails might be good.

MR. ELA: I think guardrails would be excellent, yeah. And I think those are there for a reason for, you know, various breakdown products and things. So, I haven't had time to review the science on that so I'm not the expert. I think there are many other people that are, but I think a guardrail is needed there.

25

CHAIR SMITH: Thanks, Steve.

246

MR. ELA: Thank you. Good luck.

CHAIR SMITH: Up next, we have John Foster, followedby Harriet Behar, and then Albert Strauss.

4 MR. FOSTER: Boy, talk about a hard act to follow,
5 Steve. I'm not even going to try like any of those jokes. I
6 have a day job. I'm really happy in it. I'm going to stay
7 there.

8 I've been advised to give a fairly long introduction 9 here because I have a lot of affiliations that are relevant 10 here. So I'm John Foster. I'm the Chief Operating Officer of 11 Wolf and Associates. We're a consulting company focused only 12 on the organic space. A former NOSB member 2010 to 2015. For 13 those observers, that was the -- those were the raucous years.

I am -- we assisted with the meloxicam petition. That was really important to get out there, on the record there. And then I'm also on the Board of Directors of the Organic Seed Alliance. So all of those things have some relevance in what I'm -- I wanted to be -- have my full disclosure here.

Okay. So everything that we're really about is getting more organic acres in place. Just facilitate organic acreage, you know, please. That's the -- that's our main kind of focus here. So all of these things ultimately are directed at that intended outcome.

25

1

So we provided quite a few written comments. I'm not

going to go over those. I'm here, but I certainly can answer questions about any of those. Please let the list -- the National List be inclusive, supportive, and accommodating. I think -- I believe that was the intention. We should keep pushing that direction.

I'm going to talk more at length about commercial availability. I believe it could be applied more usefully to 205-605 materials. I am still being a harp on this idea. It's probably 10 years out, but I'm going to start it now. I really do believe there's a need for commercial availability registry for all materials, for consistency and growth purposes.

And then I heard someone ask about how SOE is going. We're in a pretty unique position because we do see operations all around the world, all kinds of handlers, all kinds of farms, all kinds of livestock. So we probably have a view to about probably a dozen certifiers and how they're coping with SOE. So happy to answer any questions about how that's going because we've helped a lot now.

19 So, this -- I think -- I've spoken on this before, so 20 I won't go into detail. But the regulatory precedent for 21 commercial availability is pretty solid. I think there's more 22 opportunity for everyone to benefit from that. It does provide 23 market incentives. Sorry, I've been reading a lot today. Ιt 24 provides demonstrable market incentives that I think we can 25 push a lot of systems forward with if we continue. R&D is

certainly ready to apply some pretty novel methods that have come around in the last 10 years, especially, to move materials that have always been considered to be non-agricultural or even synthetic, toward an organic source, in the future. We heard a little bit about that earlier.

6 Reviewing lack of commercial availability 7 documentation is something that certifiers are really used to. 8 And I hate to lump more on certifiers. I know they have a lot of pressures on them. Sorry, Kyla and friends. But at least 9 10 it's a familiar. It's only half step from the familiar, right? We don't have to go too far to add a little bit more. 11 And 12 increased demand for organic ingredients clearly creates demand 13 for more organic crops.

This registry idea has been tried and failed at least 14 15 three times that I know of when it's been managed in a private 16 I feel like the only way to get full disclosure setting. that's useful is from certification and the information 17 gathering ability that certifiers have, aggregated and 18 19 consolidated in a source that's going to have a consistent and 20 longstanding presence in the community. I think that's a 21 I'll leave it there for now. public source.

CHAIR SMITH: Go ahead, Nate.

22

23 SECRETARY LEWIS: So in handling citric acid as a 24 material I'm doing for one of the materials I'm doing sunset 25 and we asked some questions related to the value of a 1 commercial availability on that particular substance. And I
2 think what I -- and I think the response from stakeholders was
3 mixed. It wasn't resounding one way or the other.

4 So I think my question's related to your opinion 5 around whether these commercial availability clauses should be added via petition when the industry is ready for it and asking 6 7 for it or via the board's normal sunset process. And this is 8 sort of absent overarching rulemaking where you're adding it to 9 everything on 605. What's the -- you know, I quess I'm 10 struggling to make the case when the community is mixed and we don't have this petition which sort of establishes a process 11 12 for need.

MR. FOSTER: I think it should be a petition process.
Like even like 10 years or 15 years ago that was one of my
hallmarks was like we have a process. We should use it. Like
let's use the petition process.

I'm not a big fan of doing anything in sunset. You
could also call it renewal review process. Except that. I
think that's the smarter way to go. So yes, petition process.

20 Citric acid particularly, that's something I have a 21 fair amount of experience with and the availability of it. I 22 remember the comment last week was made that there's not much 23 out there. I don't think that that's a reason not to move 24 forward asking for it. That -- the Maine company I know of 25 that makes both liquid and a dry formulation doesn't make it 1 until it's ordered. They're not going to have it just sitting 2 around because the volume isn't there. It's just like a retail 3 store wouldn't buy, you know, kumquats on kind of hoping people 4 buy kumquats. They buy it because there's some kind of 5 indication of demand. And that indication of demand, it takes When the market isn't providing that adequate 6 incentive. 7 incentive, that's where regulation could step in. Could, not 8 always, but could step in and provide that incentive.

9 That commercial availability clause isn't there to 10 just signal like, oh, we have this opportunity, but if no one's 11 taking the opportunity, clearly it's not working. So, yeah, I 12 would say yes to a petition process and yes to pushing it a 13 little, nudging it a little bit. Kind of falling back away 14 from just throw commercial availability at everything on 605, 15 like I said, I think in Sacramento probably.

I think it does need to be more targeted so a petition becomes much more realistic at that point. Does that help?

CHAIR SMITH: Logan, please go ahead.

20 BOARD MEMBER PETREY: Thank you. I'm sorry. I'm 21 actually on my porch and there are so many gnats. I'm getting 22 bit.

23 Hi, John.

19

24 MR. FOSTER: Hi, good to see you.

25 BOARD MEMBER PETREY: So I wanted to go through your

comments, the written comments. Mr. Will said that you might
 be a better source for this.

Going to the CO2 comment that you had and stating that you were in favor of adding it to the National List, just wondering if you could talk on that.

6

MR. FOSTER: Sure.

7 BOARD MEMBER PETREY: And more in particular, is, you 8 know, carbon dioxide, I understand is super vital to, you know, 9 plant photosynthesis. We understand. We just -- organic 10 greenhouse producers are popular. I would think that it's I would think that they've been in it for a while. 11 popular. 12 This isn't kind of a new way of farming, not just because, you know, for the finished raw product, but also for nursery 13 14 plants.

15 So it's very popular and I just expected more 16 support, you know, more of the community coming out and saying, yes, we need this product for it to be that essential. 17 That's what I was expecting. And it doesn't come. We've had two or 18 19 three groups saying that it would be beneficial, but we just 20 haven't had that flood of, you know, comments that I would expect if it was, you know, so necessary for the production of 21 22 That was -- that's really our stance. these systems.

And we had a comment from the FDA that mentioned, you know, in the oral comment saying that it was really necessary, it was really needed. And anyway, so we're scheduled to vote 1 on it, you know, at this meeting and I just -- I'm just needing 2 some more clarity, you know, as how important, you know, is 3 this product?

I think it suffers this -- that relative 4 MR. FOSTER: 5 dearth of support from it comes from the same source that anything that isn't on the list suffers from. 6 Which is if 7 organic producers don't have it on the list, they're not using 8 So it's hard to motivate people, enough people, which is, it. in the greenhouse community, is a tiny subset of total growers. 9 10 So you're starting with a small number anyway.

So I think there's a number who just aren't in the 11 12 loop of it. I don't know -- I can't -- I don't know, but I can't speak to how many -- for how many greenhouse producers 13 would that make a yield difference substantial enough to turn 14 15 their operation organic. I don't know that. But it stands to 16 reason that is a limiting factor. Like every limiting factor when you're growing things, until you solve that problem, 17 there's no point in going the next step, generally speaking. 18

19 So I don't know why, other than small numbers, I 20 don't know why there wouldn't be more support for it. But I do 21 know from direct experience, is that for a few growers who are 22 either aspirationally organic or organic now and struggling, 100 or 200 or 300 ppm increase in concentration could boost 23 24 yields a few percentage points. And that's -- that could be 25 enough to make a difference in a particular year. But there's

1 not many of those out there. That's a really small number. So
2 I wouldn't, and then if you cut that by the number of growers
3 who have the time to put everything else aside and make public
4 comment, it's an even smaller number.

5 I know from -- I used to teach horticulture at a 6 college, and I know it made a really big difference, 7 particularly in seedling production. And it got our seedlings 8 out of the greenhouse a few days faster. Something like celery that's in there a little bit longer, maybe two or three days, 9 10 maybe four days faster. Something like broccoli or kale, maybe a day faster. And it got them out of that growing environment 11 12 So that's useful from a throughput standpoint. faster. It's 13 also useful from a pest management standpoint, which is great 14 at growing seedlings, but it's also great at growing fungus qnats and aphids and a number of other pests. So the sooner 15 16 you can get it out there, the better. 17 BOARD MEMBER PETREY: Thank you. MR. FOSTER: 18 Sure. 19 Thanks, John. Appreciate it. CHAIR SMITH: 20 MR. FOSTER: You're welcome. Up next, we have Harriet Behar, 21 CHAIR SMITH: 22 followed by Albert Strauss, and then James Syburg. 23 MS. BEHAR: My name is Harriet Behar, and I'm the 24 farmer services consultant with the Organic Farmers 25 Association. My vegetable, herb, and poultry farm has been

1 certified organic since 1989.

During the public comment webinars, farmers, buyers, and processors all spoke to the dire situation for domestic organic grain producers. Jenny's extensive overview of SOE was very encouraging with a robust rollout and a strong commitment. But U.S. farmers need oversight before those imported ships leave their ports and at our own ports of entry, including overland shipments from Canada and Mexico.

OFA asked the NOSB to show support for our domestic 9 10 producers with a resolution to the NOP, asking for a speedy expansion of the residue testing pilot program to a much larger 11 12 We are playing a game of whack-a-mole. When we stop program. one source of fraudulent grain, a different one appears. 13 We need stronger enforcement to lessen this overwhelming flow of 14 15 questionable organic products. Also, a special imported grain 16 hotline should be implemented and promoted by the NOP, offering a place for fraud concerns, broker activities denying entry, 17 and for those finding issues once they receive product to 18 19 report their findings so we can gain more data.

Inerts. The National Organic Coalition has a workable proposal for dealing with this long, unresolved issue. With the changes coming to the NOSB next year, it is imperative that this board come forward with a final proposal that addresses both the mandate and the board review of all synthetics used in organic production and provides a way forward to allow for future innovation in formulations and
 provide certainty for those using the current inerts.

3 Use of organic seeds. In the EU, each country has 4 developed a list of specific seed varieties that are available 5 If an organic grower does not use these organic as organic. 6 varieties, they cannot sell that crop as organic. OFA asked the NOP to work with the NOP to either have the NOP do the 7 8 research and fund, or fund an outside organization to develop a list of equivalent varieties so we can then require organic 9 10 seed when it is available. The stagnant nature of organic seed purchases in the U.S. affects the availability of organic seed. 11 12 Seed breeders will not continue to innovate and produce organic seed varieties when there are warehouses full of unsold organic 13 14 The lack of transparency in gene-edited seed also makes seed. 15 the use of organic seed even more important.

And lastly, compost. The current definition produces high quality compost without the risk of unwanted and dangerous synthetics. High nitrogen compost is immature compost since nitrogen tends to leach easily. There is no reason to change our current definition. Ta-da.

CHAIR SMITH: Thanks, Harriet.

21

22 MS. BEHAR: Any questions?

23 CHAIR SMITH: I think I have a question. So, about 24 the seeds and the list. That -- is that data, that OSA, is 25 that research and data something that OSA can provide? Because I'm thinking about, you know, they're current. Now this, there is a guide. ACA has a guidance document, right? And so maybe as a first step, if there was this list, it could go there with a -- as a guidance document so then certifiers would have access to that and be able to like follow the non-compliance practice.

7 Anyway, just brainstorming out loud. So if that was 8 something that could be brought to the ACA, maybe that's a path 9 forward.

10 MS. BEHAR: Yeah, that's a possibility. But I'm actually kind of responding to a question that you -- someone 11 12 had during the public webinar where somebody said that Europe is even behind us on the use of organic seed. But that is not 13 14 They are actually requiring use of organic seed, country true. by country. I can send you the list. It's available on the 15 16 With, you know, France has a list. Germany has the list web. 17 of what's being required. So there's the force of law behind 18 it.

And I think people have been kind of skirting around this commercial availability thing for a really long time and ignoring that our rule doesn't say it has to be the exact variety, but it has to be of equivalent variety. So if it's -if it doesn't have a brand name that they're used to or their cousin doesn't sell it, then they don't buy it. And so here are these -- and as an organic inspector, many times I would 1 call out people on, you know, there is a corn that's available 2 and I would push them to trial it. And that was something also 3 that could be maybe required. And when I came back to that 4 farm two or three years later, they were happy with the organic 5 seed, but they had never tried it and they were afraid to make 6 that move.

7 CHAIR SMITH: Thanks, Harriet. You have a question8 from Amy.

9

MS. BEHAR: Hi, Amy.

10 VICE-CHAIR BRUCH: Hi, Harriet. Thank you so much 11 for participating in our process today. I really appreciate it 12 and all your commitment to the organic industry.

I wanted to unpackage a little bit more. 13 You're 14 talking about Europe and their requirements of organic seeds. 15 Do you know how they're handling folks that are certified to 16 the EU standard that are importing into the EU or exporting, I guess, from their country into the EU? I'm just wondering, 17 from a -- I mean, we have -- we heard from seed dealers or seed 18 19 distributors during our public comments that organic seed, at 20 least for row crops, is probably available. But I'm just 21 concerned about the availability internationally of this seed. 22 So I didn't know how EU was handling, you know, that 23 requirement of folks outside of their country.

MS. BEHAR: As far as I know, they're only regulating the growers within their country and then determining which varieties are commercially available to those growers within those countries. If you do look at the list, though, many of the varieties are similar. Or exact, actually. Not similar. So it's a lot of the same, but not always. Like, you know, there were differences between the different countries.

VICE-CHAIR BRUCH: Great. Thanks, Harriet. And
thanks for your recommendations on the residue testing. Really
appreciate that, too.

9 CHAIR SMITH: Thanks, Harriet. Up next, we have 10 Albert Strauss, followed by James Syburg, and then Brian 11 Pontious.

12 MR. STRAUSS: Hi, my name is Albert Strauss. I'm with Strauss Family Creamery in Northern California. 13 And I want to talk to you a little bit more about the state of the 14 15 organic dairy industry in our communities. My mother 16 started -- was a co-founder of the first Agricultural Land Trust in the nation, Marin Agricultural Land Trust, has 17 preserved 58,000 of the 100,000 acres of agricultural land in 18 19 Marin County.

We became the first certified organic dairy and creamery in the West Mississippi River, first 100 percent organic creamery in the United States. And since then, we have 90 percent of our dairies in Marin-Sonoma County certified organic. To come up with the organic rules and regulations, there was a diverse group of environmentalists, animal rights, 1 farmers, organic food communities, and government that got 2 together to form this -- these alliance and this common vision 3 and future for our communities. But we've come apart. We've 4 been polarized. We've been divided.

In Sonoma -- well, Point Reyes National Seashore, we now have the federal government, the National Park Service collaborating with the Nature Conservancy to remove the organic dairies, the four remaining organic dairies out of the park for no good -- for no -- the vision is not really what's good for the community or food -- the food. There's a disconnect between food, farmers, and the public.

12 In Sonoma County, we have now a ballot initiative put forward by animal rights to eliminate all factory farms or fine 13 14 animal feeding operations over 200 cows, which is 97 percent of 15 the dairies and 90 percent are certified organic. So, I feel 16 that there's a disconnect and we need to re-engage and be able to communicate as a community and come up with a common vision 17 and common future so we can move forward and build our 18 19 communities -- our rural communities and our farming systems.

And just I want to also talk about we do need to look at fraud but we need to look at -- nurture farmers and make paperwork and certification easier and less onerous because we're losing farmers because of that as well.

And then the other thing is that I'm encouraging there to be a National Organic Systems Plan that's standard because it's insane right now. And the -- and also a national organic approved materials list because that's something that I feel that is -- it seems to be something that's necessary. The other -- the last thing is we need to educate the public around what organic farming is and we need to bridge out -- bridge that gap and get educational. Thank you.

7 CHAIR SMITH: Thanks so much, Albert.

8 Kim, go ahead.

9

BOARD MEMBER HUSEMAN: Okay. Hi, Albert.

10 MR. STRAUSS: Yeah.

BOARD MEMBER HUSEMAN: I really appreciate your comments today. And as a dairy producer, can you walk us through your feed-cost models over the past 24 months and security of having product available to feed the organic dairy industry in the West Coast?

16 MR. STRAUSS: So, we had a 1,200-year drought and our feed costs went up exorbitantly. Usually, feed costs on 17 organic farms, dairy farms in our area, it's essentially 18 19 nationwide also. 50 percent of your income goes to feed costs. 20 It went up to 65 percent to 70 percent where if you're much 21 more than 50 percent, you're not making money. And so, there was shortage of alfalfa hay supplies, silage, all forages. 22 23 Grain prices, as we know, went up around the country for all 24 organic dairies. And so that we were able, thanks to all our 25 efforts and support, to get the Agnet program that has helped

1 with at least a small amount for all the organic dairies in the 2 United States. And there's going to be another round, I think. And so there's -- it's starting -- the feed costs are 3 4 coming down. We are -- we're having better winters. We have 5 two normal winters now. And so, there's more forages. 6 Hopefully, it won't rain on all the hay crops. But, yeah. So, 7 things are improving. Actually, just this month, I'm hearing 8 from my -- from the other farmers that supply us that they're 9 feeling more optimistic. BOARD MEMBER HUSEMAN: 10 Thank you. And that was not quite in the direction of --11 12 MR. STRAUSS: Oh, I'm sorry. 13 BOARD MEMBER HUSEMAN: No, no, no. I wasn't quite in 14 the direction of your comments, but I've been wanting to ask 15 you about those cycles. 16 MR. STRAUSS: Oh. Oh. And as a livestock producer, 17 BOARD MEMBER HUSEMAN: 18 the cycles of your feed costs. And you know, we talked about 19 volatility in the grain markets, the volatility in the feed 20 market, too. And, you know, just wanted to get your opinion. Yeah, just one thing to add to it. So, 21 MR. STRAUSS: we took over the cost of production survey that the State of 22 23 California used to do. So, we're now benchmarking the cost of 24 production for our organic dairies. So, we can look at our pay 25 price and how we can support them the best. So, that's been

really a good tool to really look at how we can make them profitable and successful, improve and pay themselves as managers of their own business, improve their infrastructure and look at the succession of the next generation. And we're putting a percentage above cost as a goal to be able to do that.

BOARD MEMBER HUSEMAN: Fantastic. Thank you.
MR. STRAUSS: Thank you.

9

CHAIR SMITH: Nate, please go ahead.

BOARD MEMBER POWELL-PALM: Twenty-four months ago, we were hearing from the dairy community that it was horrifically expensive feed, as you were describing. We got Agnet for that. And now we're hearing on the other side from grain producers experiencing really low grain prices. What does that conversation look like to strike a deal between feeders and growers where we're able to just hit stability?

MR. STRAUSS: 17 Years ago, I was contracting directly 18 with growers -- with grain growers. And so, there was less 19 middlemen. But I'm unusual because I mill and mix my own feed. 20 A lot of our suppliers have mixed feed from mills, buy alfalfa 21 hay when there's not pasture. You know, they're supplementing 22 So, it's a different model. So, think more of the pasture. 23 direct interactions between farmers -- grain farmers and end 24 users like dairymen is an avenue that we can kind of manage a 25 pricing system that could work for both of them.

1	BOARD MEMBER POWELL-PALM: Thank you.
2	MR. STRAUSS: I hope.
3	CHAIR SMITH: Thank you so much, Albert. Appreciate
4	your time.
5	MR. STRAUSS: Thank you.
6	CHAIR SMITH: Up next, we have James Syburg followed
7	by Brian Pontious and then Lauren Scott.
8	MR. SYBURG: Hello. Thanks for your service. Thanks
9	for your time today and welcome to Wisconsin.
10	My wife, Mary, and I farm about 35 miles west of here
11	in a small town of Oconomowoc, Wisconsin. And I've come to you
12	to speak today primarily about the compost situation. I'm a
13	farmer and a composter. I started composting on my
14	grandparents' farm at eight years old. Grew that from
15	basically a backyard operation to a regional composting
16	business that I just recently transitioned out of. Some call
17	it retirement, but when you're still farming, it's not really
18	retirement.
19	And at that time, I transitioned out of it, we were
20	in 31 states, Canada and Mexico. Compost is a vital tool to
21	regenerate and restore soil health and sustain soil fertility,
22	certainly in organic systems. So while you're preparing to
23	listen to others as you know, and those about changing the
24	definition of compost or some of the compost regulations, I
25	would agree with others that have said that the current

1 definition and the current standard for compost has worked 2 really well to produce high quality compost that has proven to 3 be clean, free of any associated problems. It kept crops 4 clean, soil, water, and air clean as well. If there were to be 5 a change, we've listed, during my tenure at that compost 6 company, you know, we listed a number of products through OMRI 7 and, you know, many states look to APCO.

8 I don't know if anybody here has looked at AAPFCO's definition of compost. The American Association of Plant Food 9 10 Company officials has a definition that is a little bit broader, but compost is not something that is a new technology. 11 12 And I've always felt that certainly from a systems approach as 13 an organic farmer, I can't technology my way out of a 14 biological problem. You know, I really need to work in that 15 systems approach.

Pliny the Elder, you know, in 23 A.D., was writing in Roman times about composting. They would gather their crop residues after harvest, compost them and reuse them. So, it's been around for a couple of thousand years. This isn't, as Yogi Berra used to say, you know, this isn't rocket surgery, right?

So, you know, ultimately I think, be cautious, be aware that in corp -- I'm not a scientist and I certainly am not here to disagree or protest against what BPI was proposing to do. But as one that has traveled on thousands of farms, seeing what compost can do and been in foreign countries where the precautionary principle is and oftentimes rule of law, I would say, you know, tread lightly, tread slowly and keep doing the great job that you're doing to get all the information you can before you make a decision.

6 CHAIR SMITH: Thanks so much for being with us today. 7 Let me just see if we have any questions. You have a question 8 from Mindee. So hang tight one sec.

BOARD MEMBER JEFFERY: Hi, thank you so much for your
comments and your work. Wondering if you had any perspective
on whether there's a carbon-to-nitrogen ratio for compost
that's too low in an organic system.

MR. SYBURG: Yeah, I think that there, you know, there's been comments about carbon-to-nitrogen ratio and certainly looking at a feedstock, you know, if you're mixing leaves with cow manure, you know, they both have different carbon-to-nitrogen ratios.

You know, it's a biological process. It needs, in my opinion, an ideal carbon-to-nitrogen ratio. I always looked at the composting business as herd management. You know, we were really employing invisible workers every day to transform our product and relied heavily on that biological process. And we then therefore built the greatest house for them and maintained the most hospitable environment.

25

So the challenge really becomes if you get too far to

1 either end of what is sort of an ideal starting carbon-to-2 nitrogen ratio, you end up with unfinished compost. You know, 3 and I think that looking at it from an outcome-based finished compost where it will, if the carbon is too high, it's going to 4 5 tie up nitrogen. No farmer's going to want to put that down 6 and have to add additional nitrogen. And if it is too low in 7 carbon, it has the potential to either leach nitrate --8 nitrogen or gas it off into the atmosphere which makes no sense 9 either.

10 So having more emphasis in our years of composting 11 was getting to that very stable, high-quality finished compost, 12 which was typically in the, you know, the mid teens, low teens, 13 carbon-to-nitrogen ratio. 12, 15 to 1.

14 CHAIR SMITH: Nate, please go ahead.
15 SECRETARY LEWIS: Distributing in 30, 33 states?
16 MR. SYBURG: 31.

17 SECRETARY LEWIS: You said 31. I can imagine that 18 was a full-time regulatory personnel that had to manage all 19 those listings.

20 MR. SYBURG: Yeah, there's people in the room that 21 helped us with it along with people that have made written 22 comments over the years that really knew how to -- yeah. 23 There's no, as soon as you've crossed from one state into 24 another, there's no consistent, you know, like in the State of 25 Wisconsin, I was not -- even though AAPFCO had said one of the benefits of compost was vigorous roots, the word vigorous in the State of Wisconsin is reserved for synthetic fertilizer. I couldn't say vigorous. So yeah, it was a challenging, but worthwhile effort to get, you know. And then once you went into Canada, you know --

6

SECRETARY LEWIS: Different story.

7 MR. SYBURG: Canada's story is different as well as8 their, you know, organic compliance.

9 SECRETARY LEWIS: Yeah, so I'm curious in that 10 journey, which of the product of the compost quality tests that 11 those various jurisdictions required you to submit heavy 12 metals, pathogens, which of those tests proved to add value to 13 your product? Which ones were worthwhile doing and were the 14 sort of real concerns that your end users were concerned about?

MR. SYBURG: Yeah, I mean, certainly metals and pathogens were important benchmarks, but they were typically used to, as a, you know, a low bar to achieve. The tests that we found were more valuable were bioassays and microbial assays, because again, we were looking at delivering a really high quality compost.

21 When yard materials, which used to be called yard 22 waste in this state, as well as other things, it really was a 23 waste minimization tactic, you know, to take things that had 24 been previously dumped in landfills, you know, and turn big 25 piles of what the heck do we do with it stuff into smaller piles of what the heck do we do with it stuff. And we'd really taken an approach primarily from my grandmother's teaching, you know, to feed the soil, you know, to produce this. So it's really a -- there's a fork in the road from the standpoint of what the desired outcome is.

6 And certainly there's benefits to taking manures, 7 stabilizing them through the composting process versus applying 8 them to the soils, raw. There's all sorts of other variances 9 But, you know, ultimately, if we, you know, we were to it. 10 very successful and we produced a high quality product, I would hope that, and we sold all of it through OMRI-listed and 11 12 organic approved channels, that if there was anything subsequently potentially added to that, that there could either 13 14 be competitive harm or somebody else could be, you know, 15 creating tipping fees and income revenue streams in their 16 composting operations that we're choosing not to do, to keep 17 them out of it. You know, or there could be a lowering of trust in the quality of the finished product that's going out 18 19 there. You know, or worse, that there would be, after the 20 fact, you know, after the horse is out of the barn, you know, 21 it's too late to close the door kind of deal, and now there's a 22 concern about what synthetics might be getting out onto organic 23 fields.

24BOARD MEMBER POWELL-PALM: Thank you.25CHAIR SMITH: Thanks so much for your comments today.

Next up, we have Brian Pontious, followed by Lauren
 Scott, and then Mark Lipson.

3 MR. PONTIOUS: Yeah, I can see it. There it is.
4 Okay. Great.

5 Good afternoon, Chair and members of the board. My 6 name is Brian Pontious. I'm here representing Ingevity, which 7 is based in North Charleston, South Carolina, and employs 8 approximately 1,700 people. For over 100 years, Ingevity has 9 been producing products that purify, protect, and enhance the 10 world around us. Our products reduce emissions, they address 11 pollution issues, and reduce farmers' environmental impact.

We are active in the agricultural industry and are members of OTA, DPIA, BPI, and the U.S. Compost Council. On a personal note, before joining Ingevity, I used to work for the State Department of Agriculture. I'm passionate about our farming community, and I'm honored to be representing Ingevity before you today.

I'll briefly touch on two topics that we submitted 18 19 written comments on, which are inerts and compost. On the 20 topic of inerts, Ingevity produces bio-based inerts that 21 enhance the performance of many formulations, resulting in 22 lower application rates and longer retreatment intervals. 23 We're here today because the current process for approving 24 inerts is not working, resulting in fewer options for our 25 nation's organic farmers who are currently unable to utilize

higher-performing and innovative solutions that are available
 to organic farmers in other countries.

Some of these inerts, like Ingevity's, not only 3 4 provide better performance, but can also provide a better 5 environmental outcome in certain situations compared to inerts 6 that are permitted within the National Organic Program. We are 7 asking for a science-based pathway for new inert ingredients 8 that will provide organic farmers with a safe and effective 9 products under a framework that is both sustainable and 10 practical.

We support two options the Materials Subcommittee has 11 12 identified in previous documents to achieve this goal. The first is to allow in organic agriculture inert ingredients that 13 14 are approved for use in EPA-registered pesticides. 15 Alternatively, NOP can reference 40 CFR Part 180 Subpart D as a 16 starting point since the ingredients on this list have met EPA's safety standard for food use. 17 Ingevity prefers the first option because it provides a clear and more sustainable 18 19 regulatory framework for allowing safe, new, inert ingredients.

20 On the compost topic, we'd like to offer our support 21 for BPI's petition to USDA. Ingevity is a strong supporter of 22 the composting industry and works closely with composters to 23 ensure they benefit from extended producer responsibility 24 programs across the country. In South Carolina, Ingevity led a 25 coalition of composters and haulers to secure support in South Carolina's state application for the Climate Pollution
 Reduction Grant Program to ensure that composters and organic
 haulers will receive funding.

4 We want composters to thrive and continue to expand, 5 but NOP's limitations on compost feedstocks are hurting some 6 composters' ability to process more food waste while still 7 producing compost certified for organic farming. While we 8 understand NOSB's desire to manage compostable products via the 9 National List, we are respectfully asking for USDA to support 10 the BPI petition for rulemaking. We would like all materials that meet ASTM compostability standards to be allowed as 11 12 compost feedstocks in the National Organic Program. Thank you 13 for your consideration.

14 CHAIR SMITH: Thanks, Brian. We have a question from15 Brian.

BOARD MEMBER CALDWELL: Thanks, Brian. About the inert ingredients, this specific product that you mentioned is not on the EPA list for it, so it can't be used right now in pesticide formulations. Is that correct?

20 MR. PONTIOUS: So, Ingevity makes distilled tall oil, 21 which you may remember from a few years ago, we filed a 22 petition for it.

BOARD MEMBER CALDWELL: Oh.

23

24 MR. PONTIOUS: It's still under review because there 25 isn't a process for it to go anywhere. But it is on the --

1 that 40 CFR part list. It's able to use it in conventional 2 agriculture. But at the time when those EPS lists were made, 3 there wasn't enough data to get it on the right list, so. 4 BOARD MEMBER CALDWELL: Okay, good. Well, that 5 answers my question. 6 MR. PONTIOUS: Yeah. 7 BOARD MEMBER CALDWELL: Thank you. 8 MR. PONTIOUS: Thank you for the question. Okay. 9 Thank you. 10 CHAIR SMITH: Thanks so much. Okay. Up next, we have Lauren Scott followed by Mark Lipson and then Cathleen 11 12 McCluskey. 13 MS. SCOTT: Hi, good afternoon. Lauren Scott with CJ Biomaterials. CJ is a manufacturer of polyhydroxyalkanoates, 14 15 or PHAs, which are a bio-based polymer that can be used to make 16 a variety of industrial and home compostable products. As an 17 entity outside the organic agriculture community, we appreciate the opportunity to comment today on the topic of the 18 19 regulations around compost inputs. The work this board is 20 doing has direct implications on critical issues, including 21 food waste diversion and methane reductions, environmental, 22 human, and animal health. Our company is focused on driving 23 innovation and a widespread shift to biomaterials like PHA 24 because they truly offer a better alternative. 25 The current large-scale use of conventional plastics

1 is damaging our environment through the manufacturing process 2 and through the proliferation of plastic waste and 3 microplastics. Discarded plastics also threaten animal and 4 marine health, sometimes causing death when ingested. 5 Biopolymers like PHA, on the other hand, not only reduce 6 environmental burdens but are proven safe through studies of 7 PHAs as a feed additive for large yellow croaker fish and 8 weaned piglets. PHAs have also been extensively studied as a fish probiotic and PHAs have even been approved for in vivo 9 10 applications and are now being used for scaffolding or mesh for tissue reconstruction, and have been investigated as a colon 11 drug delivery coating where the gut microbiome degrades the 12 drug coating made of PHA and releases the pharmaceutical active 13 in the colon. 14

15 Beyond the need to mitigate the risks associated with 16 the use of plastic, there is a critical need to reduce the volume of food scraps that are landfilled. According to the 17 EPA, food waste makes up 24.1 percent of all municipal solid 18 19 waste in landfills and plastics make up 18-and-a-half percent. 20 By shifting to compostable alternatives to plastics and by ensuring that food waste is composted rather than landfilled, 21 22 we will curb the methane emissions generated by these products 23 and drastically reduce climate impacts.

24 We know that many prohibitive substances make it into 25 the compost waste stream and that compost -- that composter has spent a great deal of time and money working to remove these contaminants. One common sense policy to address a major source of contamination is to establish an allowance for certified compostable alternatives and specified applications like produce stickers. I use this example because my company is working actively on these technologies and I'll briefly talk about that.

8 CJ has developed a PHA PLA blend film sticker that is 9 industrial compostable. Additional application development is 10 underway that is focused on utilizing our amorphous PHA as an 11 adhesive and creating an all-PHA offering. Produce stickers 12 have historically presented a challenge to make and 13 particularly with respect to the adhesive properties.

14 Amorphous PHA has the mechanical properties to generate a finished sticker that is industrial compostable and 15 16 will even be home compostable as well as marine and soil 17 degradable. The main limiting factor at this point is demand which is reduced largely by cost. Supportive policy will 18 19 signal to the value chain an interest in shifting to 20 compostable produce and will allow these products to begin 21 market scale adoption.

We recognize -- well, I ran out of time. I'll just say, in conclusion, certified compostable product manufacturers can support the organic farming community by helping to eliminate sources of contamination and by providing products 1 that are protective of human, animal, and environmental health.
2 We're happy to provide the board with some of the literature
3 and testing data that I've alluded to today. Thank you.

4 CHAIR SMITH: Thank you. Thanks for being with us.
5 Appreciate your comments.

6

25

Oh. Come back to the mic.

BOARD MEMBER CALDWELL: Thanks for your comments.
The PHA product that you are -- or component that you talk
about, when it is made into a finished product, are there other
components added to that? For instance, like plasticizers or
there's other kind of stabilizers or --

12 MS. SCOTT: So the main reason that we -- so you have 13 PHA-only products but we do add, you know, natural additives to 14 bring down the cost, primarily. But we also have patents 15 across the scope of PHAs and we have an amorphous which is like 16 a flexible and we have a semi-crystalline and we can blend all 17 those together to make a really robust set of high-performing 18 PHA products. But yeah, we mix ours also with PLAs and other 19 biopolymers to make finished products.

20 BOARD MEMBER CALDWELL: Do you add, you know, also 21 petroleum-derived --

MS. SCOTT: No, we don't.

BOARD MEMBER CALDWELL: -- components? No, you
don't. Thank you very much.

CHAIR SMITH: Thank you. Up next, we have Mark

1 Lipson followed by Cathleen McCluskey and then Jeffrey Block. 2 Hi, everybody. My name is Mark Lipson. MR. LIPSON: 3 I'm a partner in Molino Creek Farm in Davenport, California, a 4 small vegetable operation. Been certified since 1983 and 5 played some foundational roles in CCOF, Organic Farming And in 2010, I became the first organic 6 Research Foundation. 7 policy advisor at USDA serving in the Office of the Secretary. 8 And my current affiliations are as a pro bono affiliate with the Center for Agroecology at University of California, Santa 9 10 Cruz. And I work as a freelance consultant on federal policy issues with CCOF right now on the top program with Wolf & 11 Associates and have done some work with Benbrook Associates as 12 So I just want to telegraph a few things that were in 13 well. comments that I contributed to in the Wolf & Associates 14 15 comments and also under my own name. And then I really want to 16 talk about organic research.

In the discussion document on residue testing, I 17 agree the guidance documents do need to be updated. 18 But a more 19 fundamental assessment and makeover of the residue testing 20 system is what's needed because, you know, we don't have a 21 compilation of all those results. We don't have a way of 22 looking at what the total picture is and that seems like that's 23 really necessary in order to have any progress on actual policy 24 Especially, I think we need clarification on making. 25 implementation of 205.670 part (f), which is the public

1 transparency requirement for residue testing. I mean, how does 2 that work? Does that require a FOIA request? Does that go 3 through the certifiers? Does that go through NLP? I don't 4 think we know.

5 On the crop insurance in my comments, I tried to 6 point out that the focus on T yields is only part of the 7 equation that needs to be looked at. And the data point that I 8 think was missed by the -- in the presentation in Providence from the RMA administrator who was there is the loss ratio for 9 10 organic farms is very high. And the 10-year business report from RMA that she was citing data from, shows that the loss 11 12 ratio for organic is very high, like close to two -- close to two, twice as much claims paid out as premiums paid. So that's 13 14 a more fundamental problem than the T yields.

15 On the support for organic transition, the board's 16 analysis needs to include that the design of OTI was not informed by any stakeholder consultation, doesn't have any 17 18 expressed measurable goals. There's no apparent plan or USDA 19 internal projects that will yield an analysis of OTA and its 20 And biggest of all, there's no science component. success. 21 There's the disconnect from the USDA research agencies and 22 enterprise focused on organic. Between that and NOSB is like 23 to me, just a glaring, flashing problem that needs to be 24 addressed. So I'll stop there.

25

CHAIR SMITH: Thanks, Mark. You have a question from

1 Nate.

BOARD MEMBER POWELL-PALM: Mark, sorry if I missed it. What was your point about the loss ratio? What do we need to do with that information?

5

6

MR. LIPSON: We have to figure out why it is so high. BOARD MEMBER POWELL-PALM: Okay.

7 MR. LIPSON: The insurers, the underwriters aren't 8 going to be able to sustain writing those policies at that level. I mean, their regulations won't let them do that. I 9 10 mean, I'm not a legal expert on that, but that's what I've always understood. And I was working on this, you know, since 11 12 So we need to figure out why that's -- there's a lot of 2008. fine grained data in the RMA report that could be mined to 13 14 isolate like where that -- where those problems are. But we 15 don't really know if they're production problems, if they're 16 production -- if they're problems with who the buyers are or 17 the way the policies are being written.

BOARD MEMBER POWELL-PALM: 18 Thank you. 19 CHAIR SMITH: Another question from this Nate. 20 SECRETARY LEWIS: I asked Chuck also about that access, the public access to information. He indicated that, at 21 22 least in his experience, certifiers were eager or flexible 23 enough to work with him. And I'm hearing something different 24 from you around needing clarification about how that process 25 works. And I think we are at a time with this agenda item in

1 our work plan to spend some time working on that. I'm just 2 trying to sort of evaluate priorities. There's a whole bunch 3 of stuff to revamp in pesticide residue sampling, one of which 4 could be a clear roadmap or a clear set of guidance documents 5 for certifiers on when and how to share this information when 6 requested. Does -- do you think that should be a priority, 7 or --

8 MR. LIPSON: Yeah, well, I know that some certifiers 9 have shared data with Dr. Benbrook. I'm quessing that's 10 actually under an NDA. I mean, I don't know that a member of the public could get that data from a certifier or how they 11 would do that, what would be the protocol. 12 So, you know, that portion of the regulation just doesn't have any guidance. 13 So 14 something needs to be provided.

CHAIR SMITH: Carolyn, please go ahead.

BOARD MEMBER DIMITRI: Great. Mark, I like your wonky kinds of comments. They really appeal to my brain, so. SECRETARY LEWIS: That's my job.

BOARD MEMBER DIMITRI: Thank you. For the risk pool, do -- is RMA required to put organic and conventional crop insurance policies in different pools? Like, I often wonder why they just don't put them all together and then target that risk, the loss ratio of one, which they're required to adhere to by law. So that's my first question.

25

15

And then the second one is, did you have anything

1 else interesting to say about research that you ran out of time
2 for?

3 MR. LIPSON: I don't know exactly how to answer your 4 question about the risk pools from the point of view of the 5 underwriters. But the U.S. -- but the RMA business report does 6 have side-by-side comparison of organic and conventional in 7 counties where organic is insured. And it -- it's a huge gap.

8 So there's a lot of data to be parsed there and 9 figure out why those loss ratios are so high. And, you know, 10 just to reiterate, the price of those organic insurance 11 policies is going to get less and less affordable for 12 producers. And, you know, if it's available at all, if that 13 loss ratio continues to stay that high.

And so on research, the Organic Research and Extension Initiative is now -- is getting close to, probably in the next fiscal year, like half a billion dollars of dedicated organic research and extension that's been funded over the years. And it doesn't show up here very much.

19 The list of research priorities is an exercise that 20 the board has gone through for, I don't know, 15 years, 21 something like that. And it's just accumulated. It's gotten 22 bigger and bigger. There's no information coming back. 23 There's no assessment of, does the way these priorities are 24 statement -- the way these priorities are stated, you know, do 25 any good? Does it work for the research community? And what 1 actually are the results?

2	And it's shown up in a number of topics that the			
3	board's been trying to tackle. Like, for example, the plastic			
4	mulch, you know, at the end of that discussion in Providence,			
5	like the question was just hanging in the air. Well, why			
6	aren't we getting more research on organic weed management?			
7	There's actually been a lot of research on organic weed			
8	management. But none of it's coming back here to this			
9	discussion. Does that answer your question?			
10	CHAIR SMITH: Mindee, please go ahead.			
11	BOARD MEMBER JEFFERY: I have a philosophical			
12	question for Mark, but in the interest of time and respect for			
13	everyone, I'm going to hope I see you in Portland. A little			
14	trailer for the Portland meeting.			
15	MR. LIPSON: Okay. I'll look forward to seeing you			
16	guys on the West Coast.			
17	CHAIR SMITH: Thanks, Mark.			
18	Okay. Cathleen McCluskey and then Jeffrey Block and			
19	then Lori Stern.			
20	MS. MCCLUSKEY: Good afternoon. My name is Cathleen			
21	McCluskey and I'm the advocacy director with Organic Seed			
22	Alliance. We are a mission-driven organization that works			
23	nationally to promote an abundant and diverse supply of organic			
24	seed tended in perpetuity by skilled, diverse, and			
25	interconnected seed communities.			

1 Board members, the organic seed sector is at a 2 critical juncture. As the board may know and I've heard today, 3 OSA does monitor organic seed systems in the U.S. through our 4 organic seed report project. Every five years, we release this 5 progress report and action plan for increasing the organic seed 6 supply. In 2022, we released the third update and data showed 7 no meaningful improvement in organic producers using more 8 organic seed. In fact, what we see is stagnation.

9 Today, my colleagues and I at OSA are hearing from 10 seed companies of various sizes and market focuses across the U.S. that their organic seed sales are, as one representative 11 12 described it, cratering. Erratic sales have also been the subject of a must-responded to seed company listserv that we've 13 been part of in the last few weeks. We do not believe that 14 15 there is time to wait until our next organic seed report update 16 to collect this data. And so in response to the concerns, we're conducting a spot survey of seed companies about their 17 sales since 2018 so we can get data to start understanding the 18 19 trends across the sector, from packets to bulk sales. The 20 survey will be distributed this week to seed companies and we 21 plan to share our findings with the board and with the NOP.

What I want to underscore is the importance of the NOP in implementing the board's 2018 recommendation to update the organic seed requirement and the 2019 recommendations for updating the organic seed guidance document to support certifiers and inspectors in enforcing the seed requirement.
We believe these recommendations can and should be moved
forward through a working group on organic seed. The purpose
of this working group would be to develop a timeline for cropby-crop evaluations of the organic seed ability to provide the
NOP confidence in eventually closing the exemption for nonorganic seed.

8 We see the working group as having a very similar 9 purpose as a crop germplasm committee, serving as subject 10 matter experts to guide NOP staff on best practices for organic 11 seed. And therefore we suggest a similar structure to a CGC 12 with a committee chair and members of the public and private 13 sectors, including those with commercial interests.

In closing, we urge the board to include organic seed usage and excluded methods on their work agenda for the Fall 2024 NOSB meeting. I'm going to add to your trailer there, Mindee.

And, you know, it's really just time for the organic seed policy to catch up with the progress that has been made in organic seed availability by requiring improvement in organic seed sourcing on an annual basis and taking action to protect and enhance the integrity of the organic label. Thank you so much for your commitment to this board and for the opportunity to provide comments.

25

CHAIR SMITH: Boom. I think you're the winner.

1 Winner. Yes.

2

MS. MCCLUSKEY: I practiced a couple times.

3 CHAIR SMITH: Yeah, winner, winner, organic chicken4 dinner.

5 You got to stick to the script. MS. MCCLUSKEY: CHAIR SMITH: 6 That was good. Nate? 7 BOARD MEMBER POWELL-PALM: Thank you for your 8 comments. Do you think there's a chance that we're looking at 9 this at too high a level and it's really a logistics question? 10 That we don't have the businesses in place to do this work at a regional level? 11

When I think about wheat in Montana, there -- it's a pretty localized industry. Most of our varieties are publicly owned. The seed house is actually doing the work, contracting the seed, cleaning it, have no space in organic. They're not in organic.

And so, do you think that there's a certain amount of getting ahead of ourselves before we identify either through survey or through just outreach, possibly through TOPP, an understanding what is that seed infrastructure out there and what is the capacity to have a robust organic seed supply chain before we go a more stick route rather than a carrot?

MS. MCCLUSKEY: Yeah, it's a great question, Nate,
because it is really crop-by-crop, right? Which is why we are
recommending an organic seed working group to develop a

timeline to assess, crop-by-crop, what organic seed availability is so we can understand with confidence how to close the loop crop-by-crop. And so it really, it depends on the crop, in my opinion. And in our data from organic -- from the organic seed project, we do see that it is definitely by crop or by crop, what the availability is.

7 And so, I think that there's more research that needs 8 to be done. We are planning to conduct another organic seed 9 report as I mentioned. We'll begin gathering data in 2024. 10 No, excuse me, 2025. But it -- it's a good question and it 11 varies.

BOARD MEMBER POWELL-PALM: Do you think it's a better job for OSA to gather that information rather than a working group on NOSB if we're looking to move quickly?

MS. MCCLUSKEY: If we're looking to move quickly, I think that it is both and Organic Seed Alliance is doing that through our, you know, through our report. There -- that report has been, Mark, in the past, it was funded by an OREI grant, actually, that we paired with OFRF from, so that 2022 report.

I think that there is a role, absolutely, for Organic Seed Alliance to play. I think that there are a lot of dynamics, including inside business practices that are really challenging for us to be able to have transparent conversations with seed companies about, as well as handler and producers. BOARD MEMBER POWELL-PALM: Thank you.

2 MS. MCCLUSKEY: Yeah.

CHAIR SMITH: Thanks so much for your comments.
MS. MCCLUSKEY: Thank you.

5 CHAIR SMITH: Next up, Jeffrey Block, followed by 6 Lori Stern, then Meggan Hain, and then the last speaker today 7 is Maury Johnson. We have four more, guys. Then we have an 8 awesome reception to get to, so.

9 MR. BLOCK: Hi, my name is Jeff Block. I have a 10 couple of affiliations that are important for this. Number one, I'm the organic production manager for Grow Alliance. 11 We are a large, independent contract seed company. 12 My main project is working on organic hybrid corn seed. Secondly, I am 13 the organic committee chairman for the American Seed Trade 14 15 Association.

The issue that I'd like to bring to your attention for this comment is on organic seed usage. And Harriet and Cathleen really set me up because they touched on a couple of the topics that I'm talking about.

OSA has done fantastic work in tracking organic seed. The lack of growth in seed usage is a critical issue for organic agriculture, and I agree with Cathleen. In the last years, it really appears we're an industry in crisis. The usage could be even dropping of organic seed.

25

1

In my role as organic committee chairman for ASTA, we

have taken some informal surveys of the group during our 1 2 meetings the last couple of years. Among other relevant seed 3 topics, seed usage has come out as the top issue from feedback 4 of the committee members. This is clearly an issue overdue to 5 be addressed. On that note, I would like to echo Cathleen as 6 well. It's critical the NOSB push the NOP to take a look at 7 the strengthening organic seed guidance put forward in 2018 and 8 2019.

9 One important thing to add is a caveat that it --10 seed usage is a nuanced issue. It must be looked at on a crop-11 by-crop basis because of the different constraints and 12 availability on the crop. Things such as different agronomic 13 needs and different pollination mechanisms create different 14 availability.

15 I'd really need to make a quick pivot to my other 16 affiliation to show an example. As the organic production manager for Grow Alliance, I work with a network of organic 17 hybrid seed growers. This season, beyond what we've contracted 18 19 with client seed companies, we have available hundreds of acres 20 of fertile certified organic seed corn production ground with 21 highly experienced growers that we cannot use and we do not 22 have contracted demand.

23 We are one of the most experienced, high-quality 24 organic seed corn companies. We can produce a myriad of 25 varieties of organic hybrid corn of all maturities that work 1 well in organic farms. Field corn is one of the crops that the 2 organic seed industry has the knowledge and capacity to produce 3 high-quality seed.

4 We hear from client companies that they have bags of 5 varieties of good organic corn seed sitting on the shelves, 6 unsold, despite there being large amounts of organic corn acres 7 being planted this year and every year. Organic corn does have 8 a higher cost of production but nevertheless, there's solid, 9 established, tested organic production methods. And as these 10 growers become more experienced, the cost of production is 11 going down.

Harriet's comment about equivalency like really pertains to the organic corn seed industry because a lot of these varieties we produce are very much equivalent to conventional varieties that are being used for organic production.

17 Really, in closing, a robust organic seed industry is 18 a fundamental and foundational part of creating a sustainable 19 future for the entire organic agriculture. So I really urge 20 the NOSB and the NOP to make seed usage a priority issue.

21 CHAIR SMITH: Thanks so much for your comments. You22 have a question from Dilip.

BOARD MEMBER NANDWANI: Thank you for your comment. It's very simple, quick question. Can you tell a little bit about how do you go for high commercial production for these 1 organic seeds? What's the difference between conventional seed 2 production versus organic seed production? I know you said GM 3 methods and other methods, but --

4 MR. BLOCK: It's really, I mean, the production is 5 the same other than we're doing hybrid corn production in an 6 organic environment. So the difference is basically the fact 7 that we are doing it under organic agronomic conditions.

8 In my company, the way that we've done it is, you 9 know, Grow Alliance was -- is an established hybrid corn seed 10 So what we did is we hired organic growers and we company. have taught them how to produce hybrid corn seed. 11 Taking these 12 conventional methods, adapting them, working with the organic farmers to adapt them to the methods. So there is a learning 13 14 It's part of this whole organic corn seed curve, you know. 15 industry is one of the reasons the cost of production is high 16 is because there is a learning curve and learning how to do it. And that -- it takes time. You know, our yields have gone up 17 every single year as we work with these growers as -- to teach 18 19 them the different constraints of seed production.

20 BOARD MEMBER NANDWANI: So basically on the organic 21 farm, certified organic farm and following the NOP practices. 22 Thank you.

23

MR. BLOCK: Yep.

24 CHAIR SMITH: Brian, go ahead.

25 BOARD MEMBER CALDWELL: Yeah, thanks. This is really

an important issue. And we've heard a lot of consistent, but I guess, anecdotal information, from a lot of our other speakers about stresses and maybe reductions in organic operations of different commodities basically in the U.S., it sounds like. And I'm just wondering whether a decline or a leveling of organic seed usage could be reflecting basically a plateau on the -- just the general production in the various sectors.

8 MR. BLOCK: That could be. I mean, I don't know 9 either way. It's a subjective opinion, you know? Like, I 10 mean, that's quite a possibility. That's something that's kind 11 of hard to track.

BOARD MEMBER CALDWELL: Yeah, and I guess the followup would be that the information, that gathering of crop-bycrop seed usage is going to be really valuable to understand. MR. BLOCK: Absolutely. Very important. CHAIR SMITH: You have a question from Amy. VICE-CHAIR BRUCH: Hi, thanks for your time today. This is very interesting. I have raised organic seed corn

19 before, and I can attest it can be done.

20

MR. BLOCK: Yes.

VICE-CHAIR BRUCH: I wanted to put a plug in for organic white corn. That is one thing that there's still some decent markets for, organically, and we're just struggling to find any organic white corn. I know there's some testing, there's some trials. But what's the status on production for

1 organic white corn at enough volume for us to use? 2 That's a good question. MR. BLOCK: I can't answer 3 that question. We actually don't -- and our company hasn't 4 worked with organic white corn to tell you the truth, so yeah. 5 VICE-CHAIR BRUCH: Hey, big opportunity then. 6 MR. BLOCK: Wish I could help you guys. Yeah. 7 CHAIR SMITH: Thanks so much for your comments. 8 Okay. Lori, you're up next, followed by Meggan Hain, 9 and then Maury Johnson. 10 MS. STERN: Good afternoon. Lori Stern, Executive Director at Marbleseed. I'm well aware I'm standing between 11 12 everybody and our -- an amazing reception, so I'll be quick. So, the regenerative narrative and climate concerns 13 are eclipsing the value of two organic practices. 14 These include practices of holistic soil-based systems, third-party 15 16 verification, and auditable inputs that make up USDA-certified 17 organic, as well as commitments toward equity and farm viability for human-scale farmers in the United States. 18 In 19 this spirit, we would like to propose the following. Organic 20 is climate-smart agriculture. Organic farmers are conservation 21 and climate heroes, early adopters of many conservation 22 Increasing biodiversity is foundational to organic practices. 23 production, from soil to beneficial insects and pollinators. 24 Climate mitigation, including natural seed and livestock

25 selection, will be critical for farmers, along with access to

1 organic seed supply, the theme. We need to support current NOP 2 policies and create new ones to fully demonstrate organic 3 farmers' role in climate and conservation and continuous 4 improvement in this area.

5 Number two, organic is regenerative. A truly 6 regenerative farming system is organic at the foundation. 7 Regenerative involves using whole-farm, soil-based systems and 8 diversified approaches, including managing fertility, saving seeds, and generally reducing off-farm inputs. We must uphold 9 10 the organic standards that prohibit GMO and other technologies and input that consumers do not want or trust and support those 11 12 climate healing -- support those that climate healing requires. New policies need to demonstrate commitment to the environment, 13 14 animal welfare, and farmworker rights within organic to do the 15 right thing and stay relevant to consumer concerns. Government 16 programs, including NOP, need to fund organic as the food and 17 farming system that should be supported.

Three, increasing and expanding access to certified 18 19 organic through domestic grower groups. So grower groups I 20 know has come up as an issue, and I just wanted to bring 21 another perspective. So amid concerns about growth 22 certification, we would like to frame it as access to organic 23 certification, challenges of land tenure, use of incubators in 24 collective spaces to find the beginning farmer experience in 25 the United States.

1 Beginning farmers are more diverse and most already 2 have a deep commitment to organic practices and climate health. 3 Full-time farming is a challenge due to lack of fair pay for 4 farmers at smaller scales, the scale at which most enter 5 agriculture. Shared infrastructure and buying along with 6 centralized record keeping make grower group certification more 7 feasible. It also gives farmers the experience of what will be 8 required to certify on their own should they have the 9 opportunity. We need to connect organic to value chains and 10 local food with dignity efforts.

Although the NOP is in ag marketing, third-party verification of the practices that were intended at the outset to protect the environment, human health, and animal welfare are more critical now beyond preserving consumer confidence in the organic market. This is also about evolving the standards to address untested technologies, farmworker rights, and equity in accessing both the label and healthy food.

18 CHAIR SMITH: Thanks so much for your comments. Hang19 tight. You got a question from Amy.

20 VICE-CHAIR BRUCH: Hello. Thanks for your time 21 today. This is really helpful information. I had a question 22 on your comments on grower groups.

I've been in discussion with a few people that actually have some concerns about the marketing opportunities that folks that participate in grower groups have just because

1 they only have one outlet for their crops. So that price 2 discovery is a little more challenging. They have one price, 3 essentially, and not the ability to negotiate. 4 Could you expand a little bit on your knowledge on 5 market opportunities for those that do participate in those 6 grower groups? 7 So the comments come mostly from a lot of MS. STERN: 8 the beginning farmers that we're working with that are 9 potentially part of incubator farms. And then those farms are 10 certifying as a group and then often going direct-to-consumer with those products. So it's a much smaller scale than, I 11 12 think, probably what you're looking for as an answer. VICE-CHAIR BRUCH: 13 Thank you. There's a lot of 14 diversity within that term. So I appreciate your comment. Thanks. 15 16 MS. STERN: Yeah, absolutely. Thanks for the 17 question. 18 CHAIR SMITH: Thanks so much, Lori. I appreciate 19 your comments. 20 Thank you, guys. MS. STERN: 21 CHAIR SMITH: Meggan Hain, followed by our last 22 commenter, Maury Johnson. 23 DR. HAIN: All right. Well, thank you guys for the 24 opportunity to speak to the National Organic Standards Board. 25 My name is Dr. Meggan Hain. And I am a veterinarian and animal care specialist with Organic Valley. And I'm here today to
 talk about the meloxicam petition.

So I came to organics because I believe in working in 3 4 harmony with natural systems is better for the animals, plants, 5 people, and planet. But in my role, my primary responsibility 6 is to advocate for the welfare of my patients, organic animals, 7 and to advise my clients, organic farmers, to provide the best 8 care for those animals. If, as a veterinarian, I recognize a situation on an organic farm which may result in poor welfare 9 10 for the animals, it is my responsibility to address it, which is why I'm here today to ask for the addition of meloxicam to 11 12 the National Organic List.

Why meloxicam and why now? Well, let me explain. So the meloxicam petition was originated from a collaboration of organic partners which started with three veterinarians who were concerned about research which showed that natural pain relief tinctures commonly used by organic farmers did not provide effective pain control. While these tinctures were easy to give, they only lasted a short period of time.

This research has also been recognized by animal welfare certification programs which have started to prohibit the use of natural pain tinctures. In order to ensure that organic farmers have easy and effective pain management options to do what is right for their animals, we decided to petition for the addition of meloxicam to the National Organic List, and 1 as it is recognized as a gold standard for pain control in 2 livestock.

3 Meloxicam is a non-steroidal anti-inflammatory 4 medication. While this is the same as aspirin and flunixin 5 flunixin or Banamine, which are already allowed in organics, it has advantages over either of these. Aspirin only lasts about 6 7 six hours in ruminants and can cause gastric ulcers with 8 repeated use. Flunixin lasts up to 12 hours, but must be given 9 either in the vein or transdermally, both of which require 10 precautions or skills to administer.

In my experience as a veterinarian, farmers are busy people, and if the treatment is time consuming, it is less likely to be done, which may mean unnecessary suffering for the animals. Meloxicam lasts between 24 and 48 hours. It's a pill, so it's easy to give, and it has few side effects, which makes it a win-win.

Meloxicam can be used in addition to lidocaine and 17 potentially a sedative to provide optimum pain control for 18 routine procedures such as disbudding or castration. While we 19 20 recognize that the ultimate solution for procedures such as 21 disbudding would be the use of pole genetics, these solutions 22 will take time to achieve. We still need useful tools to 23 ensure that farmers are able to do what's right for their 24 animals today.

25

As you consider the meloxicam petition and other

1 livestock sunsets before the committee, I ask that you remember 2 that as an organic industry, one of our primary 3 responsibilities is to ensure the welfare of organic animals. 4 Please balance the purity of the organic philosophy with the 5 practical solutions which will allow organic farmers to take 6 proper care of their animals. Thank you. 7 Thanks, Meggan. Nate has a question CHAIR SMITH: 8 for you. 9 BOARD MEMBER POWELL-PALM: Thank you, Dr. Hain. Ts 10 there an instance in which there'd be an incentive to overuse 11 this material? 12 So, I mean, the only thing this would DR. HAIN: No. be used for would be sort of pain control. 13 So it's certainly one of those things that there's only a few things that it 14 15 would be useful for, i.e., those situations that are painful 16 for an animal. Relieving the suffering of animals is always 17 going to be in our advantage within organics. BOARD MEMBER POWELL-PALM: 18 Thank you. 19 CHAIR SMITH: Thanks so much. 20 DR. HAIN: Thank you all. 21 CHAIR SMITH: Okay. 22 MR. JOHNSON: Last. 23 Woo-hoo. We did it. CHAIR SMITH: Almost. 24 MR. JOHNSON: I don't have a joke. I don't have 25 worms. Just me.

I did see something though. I was traveling across Indiana or Ohio somewhere on the way up here and I saw this sign that says don't trust atoms, A-T-O-M-S, because they make up everything.

5 Good afternoon. My name is Maury Johnson. I am a 6 fifth generation to operate a farm in the pristine Hans Creek 7 Valley of Monroe County, West Virginia. The farm has met with 8 a few challenges over my lifetime, but nothing like the last few years with the developers of the Mountain Valley pipelines 9 10 -- gas pipelines. They decided they wanted to build across my pristine agricultural area. 11

I wish to convey some of the harms caused by MVP and the Federal Energy Regulatory Commission, FERC. From the very beginning in 2014, I informed MVP and FERC that I was an organically-managed property. That management was not only critical to my aquifer located in Clark's topography, but also the health and life of my critically health impacted aunt who lives nearby.

The pipeline contractors first acted like they had never heard of organic land or organic plans early in the project, even though MVP filed an organic plan with the FERC. Upon meeting with representatives in 2015, 2016, 2017, 2018, 2019, 2021, all the way up to 2023, they -- and including language in an agreement that talked about organic fertilizers and non-GMO seeds and no chemicals on the property. The pipeline company, as many contractors, refused to file a land protection.

3 Fortunately, I do not depend upon the organic 4 designation for my livelihood. I have witnessed at least two 5 area organic farms lose their organic designation, and one, Four Corners Farm in Franklin County, Virginia, abandoned the 6 7 farm several years ago and the family moved away from their 8 In December 2023, MVP decided to abandon even more of dream. 9 the required agreements and their great plan protocols, which 10 has led me into a months-long battle with the pipeline company.

I just came from Washington, D.C., where I, in the 11 past several months, I've had to hold meetings with fed 12 officials at FERC. MVP has damaged my farm and others. 13 I have been without usable water from my well for the last several 14 15 That's right. I have no usable water, no running water years. 16 in my house. Maude has also been hauling water for some household uses for at least five years. 17

Other landowners and farmers across West Virginia are reporting similar impacts and contamination issues. I'm helping with that documentation.

I said my farm is organically managed. Under organic designation, because I do not sell products over \$5,000, I qualify for the TOPS program. I have hundreds of pictures of the devastation of the pipeline noncompliance, many of which I have shared with FERC, regional, national, and international 1 media outlets. I am here to ask that -- for help for myself 2 and for landowners across the USA facing these threats from 3 pipeline companies and others.

So, once again, I'm asking that you get the Secretary of Agriculture to tell the FERC that farms like mine are legitimate organic farms and educate them, MVP, and other pipeline companies about NOP.

8

See, I practiced.

9 CHAIR SMITH: Thanks. Thank you so much for being 10 with us. We have a question from Wood.

Thanks so much for the 11 BOARD MEMBER TURNER: 12 Thanks for -- I'm sitting here just kind of blown. comments. My mind is blown by what you're talking about. I'm just 13 wondering, is this issue of legitimacy? Is that -- you're 14 15 saying this is a common issue that's happening with farmers 16 that have been designated to have certification? I mean, what -- I'm curious why it's specific to organic. 17

18 MR. JOHNSON: So, all landowners face problems with 19 these pipeline companies, crossing a problem. It's a 20 particular problem, bad problem, for organics because we can 21 lose, and some have lost, their organic designation.

I have traveled -- I won an award last year because I refused to sit quietly. They picked on the wrong landowner. And I have talked with folks from West Virginia, North Carolina, Ohio, Pennsylvania, Nebraska, South Dakota. This is 1 a common theme, especially for organic farmers. And with the 2 big push right now to build thousands of miles of hydrogen 3 pipelines and carbon pipelines, more pipelines, more 4 transmission lines, this is a problem that's going to come to 5 everybody's doorstep. And we -- I'm here to sound the -- I'm 6 asking for help from you all. But I'm also to sound the alarm 7 that we need to get on top of this. They put people out of 8 business and they don't care.

9 CHAIR SMITH: Thanks so much for your comments today 10 and for being with us.

11 MR. JOHNSON: Thank you.

12 CHAIR SMITH: You bet.

13 Okay, guys. We did it. A little bit off schedule,14 but we did it.

You are all invited to a reception being hosted by Organic Valley and several other industry partners. They're all on this flyer. I'm not going to announce them all. It's in the Monarch Lounge right here in this hotel.

So we can all head there in just a moment. We will be on recess until 9 central tomorrow, Tuesday, April 30th. Thank you for everybody for sticking with us in the room and for the attendees on Zoom.

23 We're going to be using the same links tomorrow. So 24 please join us again. Same bat time, same bat channel. 25 And see you at the reception.

1	(Whereupon, at 6:13 p.m., the meeting was recessed to, to
2	reconvene on Tuesday, April 30, 2024, at 9:00 a.m. CST.)
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	

CERTIFICATION This is to certify that the attached proceeding before the: NATIONAL ORGANIC STANDARDS BOARD IN THE MATTER OF: NOSB Board Meeting, Spring 2024 Milwaukee, Wisconsin PLACE: DATE: April 29, 2024 was held according to the record, and that this is the original, complete, true, and accurate transcript which has been compared to the recording accomplished at the hearing. (aine motelhope Elaine M. LaRosee, CDLR Official Reporter

Spring 2024 Meeting	1			April 29, 2024
	72.2.75.22.76.12.	accordible (2)	101.1 2.102.4.104.5	16;70:25;72:19;
	72:2;75:22;76:13;	accessible (2)	191:1,2;192:4;194:5,	
—	80:21,22;86:14;87:4;	161:3;228:19	6,24,25;197:3;222:1;	78:10;80:16;81:13;
	92:24;95:17;99:10;	accessing (2)	246:21;258:18;	90:11,13;97:2;
(3)	101:19;104:6;105:6,	114:12;293:17	287:19;288:6	101:23;105:22;
156:6,7;157:4	8;118:8,22,23;121:3;	accommodating (1)	acronym (3)	114:19;121:25;
	135:1;151:8,24;	247:3	46:9,14;71:15	123:22;126:9,25;
\$	152:8;156:5;179:8;	accomplish (6)	across (38)	147:17;149:19;151:9;
	180:21;191:13;	29:24;86:15;	25:20;44:11,15;	155:5;173:20;185:8;
\$10 (1)	195:15;224:21;227:2;	101:19;109:10;113:4;	49:7;52:14;57:15;	187:15;188:9;197:11;
217:12	233:8;256:5;259:16;	240:24	58:1;66:13;74:17;	199:14;206:16;211:1;
\$100 (1)	260:24;262:5,16;	accomplishing (2)	75:16;86:20;97:3,4;	216:21;227:1;233:2;
18:13	272:1;278:8;285:24;	100:9;211:19	99:9;104:17;106:13;	236:3;239:24;250:21;
\$104.8 (1)	296:23	According (3)	108:12;115:20;	256:11,14;258:3;
10:1	above (5)	10:21;171:8;273:17	132:23,23,23;138:20;	261:7;279:10;281:1,
\$107 (1)	37:19;196:15;	accountable (2)	182:22;189:12;191:9;	7;284:14;285:19;
11:3	215:12;245:11;262:5	48:23;58:12	203:16;211:20;213:3;	291:3;293:24
\$15 (1)	Abraham (6)	Accreditation (5)	220:23;221:5;270:24;	acumen (1)
98:12	99:17;117:6,7,8;	18:5;58:7;60:15;	275:15;282:10,19;	103:11
\$20 (1)	121:8;130:2	92:21;93:2	298:1,10;299:18;	AD (1)
217:13	Absence (3)	accredited (4)	300:2	264:16
\$210 (1)	23:19;54:25;61:3	23:9;45:16;68:7;	Act (10)	adapt (1)
189:19	absent (1)	85:22	6:18;77:3,9;92:24;	289:13
\$25 (1)	249:8	accumulated (1)	120:6;145:6;216:19;	adapting (1)
184:10	absolute (2)	280:21	233:8;236:12;246:4	289:12
\$5,000 (1)	46:21;52:4	accurate (3)	acted (2)	add (18)
	absolutely (24)	150:17,24;170:5	182:15;298:19	8:9;83:5;88:8;
299:22	22:2;45:18;48:22;	accurately (1)	Acting (1)	105:6;127:22;129:22;
\$6,000 (1)	49:2;140:12;174:6,	61:17	17:13	138:1;161:18;233:14;
181:2	11;181:19,24;208:16;	ACE (2)	action (12)	242:20;248:11;
\$70 (1)	209:22;211:7,13;	55:13;56:25	26:9;35:22;58:13;	261:21;266:6;267:12;
184:10	212:24;213:3;216:25;	achieve (4)	68:11;69:7;78:23;	275:13,20;283:16;
\$79 (3)	212:24;213:3;210:23; 219:2;224:9;229:2;	170:10;267:17;	90:4;160:9;191:25;	287:9
215:3,6;216:6	241:5;243:19;285:21;	270:12;296:22	239:10;282:5;283:21	added (12)
\$825 (1)	290:15;294:16	acid (6)	actionable (2)	15:2;47:25;48:3,5;
172:2	abundance (1)	170:22;176:24;	207:13;222:20	
	108:11			56:12;148:16,17;
Α		214:8,10;248:23;	actions (6)	161:11;164:20;249:6;
	abundant (1)	249:20	25:13;58:19;183:8;	268:13;275:10
A&W (2)	281:23	acids (1)	207:15,15;237:8	addenda (2)
194:13,22	abuse (1)	182:6	active (11)	66:2,6
AA (1)	180:11	acknowledge (11)	21:2,5;55:6;57:2,5;	addendum (2)
155:9	ACA (2)	16:18;26:13;28:12;	102:11;152:2,3;	166:7,11
AAPFCO (1)	256:2,8	29:2;79:14;82:9;	204:19;269:12;	addendums (4)
266:25	accelerate (1)	116:23;134:11;138:5;	273:13	165:2,4,15;166:5
AAPFCO's (1)	232:11	165:11;226:21	actively (5)	adding (2)
264:8	accept (2)	acknowledging (2)	75:11;91:19;103:1;	249:8;251:4
AB (1)	146:11;191:1	96:22;240:10	107:13;274:6	addition (10)
146:15	acceptable (1)	acquired (1)	activities (7)	31:1;36:22;102:2;
abandon (2)	196:3	126:5	8:1;105:1;107:9;	141:22;195:3;240:18;
141:8;299:8	acceptance (3)	acre (1)	115:1;119:2;124:24;	242:5;295:11,25;
abandoned (1)	53:9,10;192:14	189:19	254:17	296:17
299:6	accepted (2)	acreage (13)	actors (4)	additional (9)
ability (12)	23:20;193:2	79:17,19;80:21;	63:3,4,7;89:7	101:16;105:6;
67:4;96:25;123:2;	access (25)	82:17;86:13;119:24;	acts (2)	107:1,8;177:25;
160:6;178:7;190:4;	34:8;54:17,18;	126:4,21;183:9,19;	29:19;77:10	182:19;191:4;266:6;
225:15;229:19;	74:16;109:4,5;	184:10;186:25;	actual (4)	274:9
248:18;271:6;283:5;	112:24;114:6;129:8,	246:22	91:10;143:15;	additionally (1)
248.18,271.0,285.5, 294:3	16;131:17;140:18;	acres (32)	240:2;276:23	105:10
able (54)	160:21;190:4;191:13,	10:24;78:25;79:6;	actually (67)	additive (1)
	19;193:24;194:17;	86:23;102:1,6;	16:21;19:1;32:23;	273:7
11:21;13:9,10;	222:14;256:5;278:21,	103:20;106:8;109:21;	36:1;40:20;43:12,13,	additives (1)
16:12;19:4;20:21;	21;291:25;292:18,22	123:21,25;124:1,2;	23;44:9,18;45:7;47:2,	275:13
33:17;38:4;44:13;	accessibility (1)	126:5;134:9;184:6;	6,10;55:7,12,25;58:3;	address (10)
58:16;59:20;62:3;	164:9	189:19;190:23,24;	59:6;61:21;67:9;68:1,	164:21,22,23,23;
68:24;69:1;71:22;	107.7	107.17,170.23,27,	57.0,01.21,07.7,00.1,	107.21,22,23,23,

207:2;236:10;269:10; 134:8:213:7 291:10:298:5 ago (26) 98:23;131:24;132:16; 274:2:293:16:295:10 advice (4) afterwards (2) 29:8;53:3;68:7; 139:16:146:17: 74:18:75:2,15,25 76:19:86:22:93:12; addressed (3) 99:22;179:18 148:21;149:23;153:1; 68:5;277:24;287:5 advise (1) 94:13:119:11:127:10: 154:10:155:19: Ag (7) addresses (1) 295:7 10:22;22:10,12; 134:24;146:15;148:5; 157:11:159:16; 29:20;94:12;194:15: 254:24 advised (1) 155:7;156:3;166:6; 160:23;165:25;167:8; 293:11 addressing (2) 246:8 188:11,16;217:12; 170:24;174:12;178:5, 109:23:221:13 advising (1) again (60) 225:7:227:1:229:6; 17:181:4,25:185:5; adequate (3) 168:15 7:1;14:2,9;15:17, 249:14;262:10,17; 186:5;187:5;189:2; 190:22;202:2;250:6 advisor (7) 22,24;16:2;28:6; 271:21:299:7 191:7;192:10;196:21; adhere (1) 23:8;29:19;105:8, 33:17;37:24;40:18; agree (9) 197:6,22;199:1; 279:23 11;110:16;135:2; 42:15:51:11:55:20; 25:15;52:18;74:1; 202:19;203:11; adhesive (2) 276:7 59:24;61:3;62:5,21; 216:12;218:13; 204:17;209:9;210:16; 274:11,13 advisors (2) 66:10;67:14;68:10; 230:13:263:25; 212:6;216:8;217:18; adjacent (2) 110:13:111:9 69:5,14,24;71:23; 276:18:286:22 219:24;223:3;226:11; 72:24;82:14;86:14, agreed (2) 228:9;230:7,11; 150:4;151:18 Advisory (4) 6:18;12:21;16:18; 24;87:19;90:16; 78:9;124:1 232:1;233:11;243:1, adjust (2) 21;248:22;250:19; 68:12;162:14 214:2 111:21;113:1;114:13; agreement (2) adjusting (1) advocacy (6) 116:6;127:7;143:8, 167:18;298:24 260:8;262:9;266:14; 172:9 96:2;105:16; 12;149:11;153:20; agreements (4) 279:15;281:10; administer (1) 141:18:209:21:210:1; 154:7:155:3,7,13: 58:18:102:3; 284:18:289:24 157:18.20:161:15: aid (2)296:10 281:21 133:21:299:9 administered (1) advocate (2) 163:20;170:16; agrees (1) 210:1,13 39:5 124:19;295:6 208:23;211:24; 235:8 air (3) administration (1) advocating (2) 215:25;217:4;218:17; agribusiness (2) 25:9;264:4;281:5 8:21 12:24;13:3 234:4,8;244:11; 22:12;234:21 aisle (2) administrative (1) aeroponic (1) 267:19;300:4;301:24 agricultural (15) 37:12;203:16 89:18 161:17 against (5) 7:25:106:13; akin (2) Administrator (4) Affairs (2) 58:14;90:4;92:25; 110:16;111:9;134:18; 156:18;194:21 6:11:18:4:28:21; 8:22:220:20 162:15:264:24 166:21;171:8,10,14; alarm (1) 277:9 affect (2) age (1) 234:21:258:16,17,18; 301:6 admitting (1) 24:15:220:4 182:15 269:12:298:11 Alaskan (1) 127:2 affected (1) agencies (4) Agriculture (46) 88:10 adopter (1) 190:4 8:2;76:11;202:25; 7:6.23:8:5.7.11: albeit (1) 144:25 277:21 10:1,9;11:12;12:3,25; 24:14 affects (3) 228:7;230:25; adopters (1) 13:18,20,23;14:16; Albert (7) agency (11) 7:24;9:11;12:11,13, 246:3:253:22; 291:21 255:11 15:6:21:15:101:7: 104:20;106:4;108:2. adopting (1) affidavit (1) 21:13:7:15:19:23:9: 258:10,12;260:7,9; 199:22 60:2:94:13:195:4 263:3 63:1 6,8;115:12;130:20; affiliate (1) adoption (3) agenda (6) 135:3;138:7,14; alert (1) 41:15;222:15; 276:8 7:4;16:8;25:14; 144:20;146:12; 61:6 Alexis (2) 274:21 affiliation (6) 161:19:278:25; 152:25;163:23;204:5, 18:3;32:16 advance (4) 142:18;143:9; 283:15 6;212:13,15,23; agents (8) alfalfa (2) 18:22;97:11; 160:15;188:25; 219:4;269:15;270:13; 104:19;189:2 77:13;103:10; 260:22;262:20 238:22;287:16 272:2,17;286:22; affiliations (3) 110:14;161:5;191:22, 288:19;291:20;293:5; aligned (2) advanced (1) 246:9;276:8;286:10 145:21;222:21 82:9 23;192:6;193:19 300:5 advancement (1) affirming (1) ages (1) Agroecology (1) alignment (1) 29:22 190:21 126:8 276:9 161:23 advancer (2) afford (1) aggregate (1) agronomic (2) Alliance (9) 143:7:189:1 205:18 162:12 287:12:289:7 223:17:246:17; aggregated (1) 259:2:281:22:285:16. advancing (4) affordable (1) agronomists (1) 8:6,7;18:2;89:17 280:11 248:18 22;286:11;287:17; 110:13 Agronomy (2) 289:9 advantage (2) afraid (5) aggregation (1) 9:15;297:17 212:3;215:14; 109:10;110:10 Allison (36) 126:16 216:7;235:4;257:5 20:10;73:21,22; advantages (1) aggregator (1) Ah (1) Africa (1) 84:9 43:11 87:8;96:11,12,13,15; 296:6 ahead (73) 98:13,23,23,24;99:1; adverse (3) 22:16 aggregators (1) 228:6;234:24; afternoon (12) 53:17 6:8;7:20;19:9; 104:11;108:24; 240:16 7:14;28:13;108:22; aggressive (1) 38:24:40:6:41:7: 115:14;116:16;128:8, adversely (1) 160:16;187:23; 194:23 42:20;70:17;73:21; 23;132:16,20;133:6; 230:25 220:18;238:23;269:5; Agnet (2) 76:3;78:20;83:12; 137:6;141:16,24; 272:13;281:20; 260:25;262:12 86:8:87:8:88:25: 145:25;153:1;174:12, advertising (2)

Burke Court Reporting & Transcription (973) 692-0660

- Vol. 3 April 29, 2024

Spring 2024 Meeting				April 29, 2024
12 202 10 212 6 24	45,17,46,10,61,12	79, 20, 92, 9, 96, 12		21.11.00.22.24
13;202:19;212:6,24;	45:17;46:19;61:12,	78:20;83:8;86:12;	announcement (1)	21:11;69:22,24;
228:9;230:11;241:19;	17;69:23;70:9;76:5;	88:25;139:16;146:17;	190:6	85:11;123:8;139:7;
243:1	84:24;88:18;93:24;	154:10;165:24,25;	annual (3)	193:1;247:7
Allison's (2)	103:1;132:8;155:12;	173:2,4;181:4;	107:14;110:23;	applies (1)
128:9;138:4	172:21;175:17,22;	192:10;198:25;	283:21	64:9
allocate (1)	178:11;179:23;180:2,	203:11;216:8;230:7,	annually (7)	apply (14)
186:20	14;196:2,7;198:16;	9;232:1;257:8,9;	98:6;162:16;	28:2;63:2;67:1;
allocated (1)	200:14;202:10;204:9,	290:16;293:19	177:12,14,20;179:14;	76:25;87:20;127:25;
190:20	15;205:3;209:3;	Amy! (1)	228:24	136:3;169:17;190:18;
allow (13)	215:13;218:19;248:3;	173:4	answered (3)	193:4;194:1;201:23;
60:10;72:7;100:15;	250:8;258:4;264:12;	Amy's (1)	33:8;131:23;137:15	202:15;248:1
111:8;141:18;159:12;	265:19;278:11;	153:7	antibiotics (1)	applying (2)
169:20;195:21;	297:16	analogous (1)	34:6	72:14;268:7
241:12;255:1;270:13;	amazed (1)	230:18	anticipating (1)	appreciate (50)
274:20;297:5	76:5	analogy (1)	21:18	16:2;78:23;83:11;
allowable (3)	amazing (9)	90:23	antidotes (1)	97:18,21;127:2,16;
111:5;144:15;	31:8;86:25;113:2;	analyses (1)	176:11	128:22;145:17;
146:11	114:22;117:16;183:7;	234:14	anti-inflammatory (1)	149:22;150:2;151:16;
Allowance (4)	233:19;244:9;291:12	analysis (8)	296:3	153:3;160:11,19;
169:15;239:22;	Amazon (1)	171:2,7;229:5;	anxiety (1)	163:16,22;165:21;
242:5;274:3	232:24	236:3,20;242:8;	15:11	166:5;167:7;180:9;
allowed (17)	ambassadors (2)	277:16,19	anymore (3)	187:3;188:17;194:8;
48:1,3;55:7;60:7;	38:10,10	analyst (1)	119:15;231:13;	196:23;197:20;198:3;
143:16;149:13;162:8;	amendment (1)	8:16	237:1	199:24;201:4;203:14;
171:13,24,25;172:3;	135:4	analytical (3)	apart (3)	209:2,10;210:18,19,
180:16;216:22;	amendments (1)	225:4,15;227:4	164:2;222:7;259:3	23;216:11;217:22;
243:14,16;271:11;	24:10	analytically (1)	apartheid (1)	219:22;220:11,13;
296:5	America (6)	225:1	131:19	221:2;253:19;257:11;
allowing (11)	22:15;131:4,6,19;	analyze (2)	APCO (1)	258:8;260:11;263:3;
60:19;63:10;101:5;	155:9;220:23	36:25;152:17	264:7	272:17;275:5;294:14,
128:3;165:3;239:19;	American (7)	ancestor (1)	aphids (1)	18
240:17,25;241:25;	218:14;227:9,23;	131:5	253:15	appreciation (2)
243:5;270:19	231:7;234:11;264:9;	and-a-half (1)	APHIS (2)	18:20;233:14
allows (3)	286:14	52:23	67:20;77:3	apprenticeship (1)
44:20;48:3;58:12	America's (3)	Andrea (1)	apparent (1)	126:18
all-PHA (1)	9:14;10:3;143:25	17:14	277:18	approach (11)
274:11	amid (1)	Andrew (2)	apparently (2)	66:12;125:6;
alluded (2)	292:21	117:17;142:12	17:3;46:9	127:20;138:10;
103:23;275:3	amino (3)	anecdotal (1)	appeal (1)	222:17;226:8;240:24;
almost (9)	170:21;176:24;	290:2	279:17	244:5;264:12,15;
33:20,22;52:19;	182:6	Angeles (1)	appeals (1)	268:2
55:5;68:4;91:20;	ammonia (2)	122:2	89:11	approaches (7)
133:11;141:8;297:23	182:20;244:12	angles (1)	appear (3)	51:16;64:18,19,19;
along (16)	among (13)	210:8	56:2;60:5;165:6	67:19;84:1;292:8
10:1;12:12;18:13;	32:8,24;34:9;106:2,	animal (14)	appears (3)	appropriate (2)
22:14;28:18;41:3;	19;162:22;165:11;	182:2;207:11;	71:22;254:13;	166:24;200:25
58:5;127:13,25;	201:21;202:25;203:5;	212:18;258:25;	286:23	appropriately (2)
143:7;146:5;199:23;	211:4;232:18;287:2	259:13,14;272:22;	applaud (1)	139:7;201:3
226:10;266:21;	amorphous (3)	273:3;275:1;292:14;	97:9	approve (1)
291:25;293:5	274:10,14;275:15	293:13;294:25;	applause (7)	144:4
alongside (1)	amount (15)	295:20;297:16	18:20;70:18;	approved (4)
143:7	32:3;50:8;54:13;	animals (12)	100:23;101:3;111:17;	260:2;268:12;
alternative (2)	73:25;101:20;159:23;	33:6;34:8;295:4,6,	116:15;121:9	270:14;273:9
180:4;272:24	177:4;178:11;192:24;	8,10,24;296:14,24;	applicants (2)	approving (1)
Alternatively (1)	223:15;244:17,19;	297:3,6,16	116:10;192:23	269:23
270:15	249:21;261:1;284:17	animal's (1)	application (3)	approximately (5)
alternatives (2)	amounts (1)	212:19	269:22;271:1;274:9	56:1;102:1;103:15;
273:20;274:4	288:6	anniversary (1)	applications (12)	106:8;269:8
although (4)	AMS (1)	97:22	71:2,2;107:20,20,	April (7)
24:3;29:6;190:22;	78:7	announce (2)	21;116:5;133:4;	52:22;53:1;119:9;
293:11	Amy (30)	143:2;301:17	190:12;191:1,3;	164:16,17;301:20;
always (41)	19:1;22:1,5,21;	announced (1)	273:10;274:4	302:2
27:6;28:4;43:24;	28:22;42:20;43:4;	207:13	applied (8)	aquifer (1)
	1			

298:16 article (6) Arabia (1) 207:3;208:5,5,10, 21:6 13:212:25 articles (2) area (18) 9:17:10:8:25:6; 208:15:212:14 47:5;102:16;112:24; ASCO(1) 125:25;204:13,15; 178:2 213:13:216:24:232:4, aside (1) 21;237:17;260:18; 253:3 292:4:298:11:299:5 asleep (1) 167:9 areas (12) 21:13:88:3.13; aspect (1) 100:1,3;109:8; 93:11 112:13,14;138:18; aspects (3) 162:14;192:3;229:24 70:10;78:19;83:24 aspirationally (1) arena (2) 234:20;236:23 252:22 aspirations (1) Argentina (1) 217:11 126:15 argue (3) aspirin (2) 53:6;244:22,24 296:4,6 argued (1) assays (1) 96:18 267:19 Arkansas (7) assembled (1) 100:6;103:9; 32:14 137:11;138:5,9,13; assess (3) 139:14 68:22;204:10;285:1 arms (1) assessment (8) 54:15 78:22;110:15,17, around (62) 19;111:1,10;276:19; 6:25;8:15;9:9,10; 280:23 14:17:19:7:26:9: assistance (20) 32:10:39:6:40:14: 17:22;71:7.10.11; 44:5:54:15:64:13: 99:14;100:2;102:13, 71:10;74:12,12;78:8; 13,18;104:4;105:7; 109:7,11,15;113:12; 80:12;81:4;87:11,18; 90:20.23;111:16; 114:4;120:15;210:1, 113:10:115:21: 6.6 Assistant (1) 128:25;129:5;144:16, 24:145:8,18:147:8; 17:13 151:20;152:16;153:6; assisted (1) 154:22,25;160:2; 246:14 170:3;172:20;175:4; associated (6) 188:3;198:6;200:21; 146:10;182:17; 192:1;227:19;264:3; 209:19;226:8,19; 234:11;235:1;245:1; 273:15 247:14;248:2;249:5; Associates (5) 250:2;256:19;260:4, 183:5;246:11; 23;264:19;269:10; 276:12,12,14 272:19;278:24 Association (24) arrangement (5) 10:22;68:8;72:8; 48:2,2,9,11;90:1 85:23:99:11.17: 104:8,10,14;117:4,6, arrangements (7) 50:3;65:5,8,20; 14;124:3;139:23; 82:2,4;90:17 171:22;190:10; 194:18,20;200:9; array (2) 68:14;118:14 220:21;223:21; 253:25;264:9;286:15 arrest (1) 233:18 associations (2) Arrows (3) 50:21:85:23 156:15,19,19 Assuming (1) Arsenault (1) 178:21 assure (1) 16:18

168:16 assuring (1) 183:15 ASTA(1) 286:25 **ASTM (12)** 145:15;146:9; 150:12,15;151:19; 153:16;154:21;155:7; 160:3;240:2,9;271:11 astounding (1) 74:3 Atlanta (1) 95:14 atmosphere (1) 266:8 atoms (1) 298:3 A-T-O-M-S (1) 298:3 attacks (1) 142:21 attend (1) 29:7 attended (1) 24:1 attendees (1) 301:22 attention (9) 26:1:27:17:30:6; 104:16:161:2:201:5; 203:22:221:7:286:16 attest (1) 290:19 attitude (1) 125:21 Attitudes (3) 33:10,10;34:2 attorney (1) 20:12 audience (8) 6:12:16:22:24:10; 34:21,21;43:19,22; 110:18 audiences (3) 62:24;134:13;138:8 audiovisual (1) 160:23 audit (3) 36:13;71:21;86:5 auditable (1) 291:16 auditors (2) 36:4;86:4 audits (3) 90:12;92:21;93:2 augment (1) 165:15 August (1) 98:7 aunt (1) 298:17 authentic (4)

52:6;58:4,11:60:11 authenticity (1) 168:16 authorities (1) 200:18 authority (11) 35:17,22;36:13,15; 60:21:92:2.3.3; 143:25;159:23; 201:11 authorized (1) 46:16 availability (21) 165:7;169:14,17; 178:20;247:7,10,21; 248:6;249:1,5,21; 250:9,14;255:11; 256:20;257:21; 283:20;285:2,6; 287:12,14 available (26) 15:11,12,19;72:6,6; 79:3;157:21;160:24; 166:7;168:24;175:12; 178:24;179:10; 192:22;226:19;233:3; 255:4,10;256:15; 257:1,20;258:1; 260:14;270:1;280:12; 287:19 avenue (3) 239:24:242:24: 262:24 avenues (2) 102:23;224:5 average (6) 177:14:180:16,18; 212:16:231:6.7 avocados (1) 57:13 award (6) 45:7;72:16,18,23, 25;300:22 awards (2) 72:20;129:12 aware (10) 14:14;61:12;78:1; 81:25;94:21;96:24; 148:21;185:25; 264:23;291:11 awareness (1) 190:14 away (11) 106:16;122:1; 123:8,21;136:16; 140:25;141:1;145:1; 238:3;250:13;299:7 awesome (4) 23:12;24:11;28:7; 286:8 awful (7) 43:25;45:21;53:17; 67:2;68:15;87:6;96:3

- Vol. 3 April 29, 2024

awkward (1) 26:10 B baby (1) 29:9 bachelor's (1) 8:18 back (64) 6:7;12:1;15:6;16:3; 17:14:23:23:28:20; 30:9,18;31:19;37:5; 53:25;61:21;69:5; 73:19;79:9;84:2;92:4; 94:19,23;95:3; 100:12;122:11;123:9, 16;127:18;131:4,6; 142:4,8;148:20; 157:12;161:19; 180:18:186:6.8; 201:6;208:13;214:18; 215:1,2;224:22; 225:5;227:14;228:17; 230:9;231:21;234:13, 25;235:8;236:15; 239:10,22;242:7,15, 20,22;243:16,23; 250:13;257:3;275:6; 280:22;281:8 backbone (1) 200:10 backed (1) 35:17 background (4) 19:12;106:4; 136:19:204:23 backgrounds (2) 43:5;205:2 backing (1) 181:6 backlog (2) 54:9,10 Backus (1) 32:17 backyard (2) 237:5;263:15 bacterial (1) 214:9 **bad** (7) 48:19;54:22;89:7; 119:10;177:25;218:3; 300:20 bada (1) 215:19 bag (2) 65:6;145:6 bags (3) 65:12,12;288:4 Baker (2) 226:4;233:15 balance (1) 297:4

Min-U-Script®

balances (1) 86:12 **Balancing** (1) 65:25 ballot (2) 135:4:259:12 **Banamine** (1) 296:5 bandwidth (1) 234:3 bang (4) 26:24,24,25;227:9 bank (1) 195:14 banks (1) 195:16 banned (1) 159:13 banner (1) 37:18 banners (1) 37:12 bar (1) 267:17 barely (1) 214:22 bargaining (2) 53:8:223:15 barn (2) 119:11:268:20 barraged (1) 238:5 barriers (2) 195:9:223:18 baseball (1) 70:10 based (10) 6:17;20:15;50:22; 54:21;92:2,3;108:25; 144:17;182:5;269:7 baseline (1) 122:14 basic (1) 186:20 basically (10) 76:12;96:18; 112:13;114:7;217:5; 263:15;289:6,20; 290:4,6 basics (1) 107:15 basis (5) 71:9;133:24;238:7; 283:21;287:11 bat (2) 301:24,24 baton (1) 170:14 battle (1) 299:10 **Bav** (2) 127:12;164:4 bean (1)

229:12 beans (5) 10:11:11:5:83:19: 229:14.18 bear (4) 28:17;157:10; 200:25;237:15 beat (1) 16:24 beater (3) 90:23;91:5,9 beautiful (4) 29:9;31:8;94:1; 96:19 beautifully (1) 19:19 became (6) 24:12;98:3;123:16; 188:2;258:20;276:6 become (6) 31:25;77:16;82:11; 95:10;98:18;288:10 becomes (3) 233:6;250:17; 265:25 becoming (5) 60:25;72:2;79:2; 102:15;132:18 beef (1) 19:17 beer (3) 69:11:164:4:214:11 began (1) 156:2 begging (1) 96:18 begin (7) 7:17;29:1;194:23; 235:2,25;274:20; 285:9 beginning (8) 85:17:113:12; 142:18;234:24; 292:24;293:1;294:8; 298:14 begun (1) 109:18 behalf (4) 134:8;160:19; 210:22;224:17 BEHAR (14) 124:14,15,16; 127:22;132:6,8; 246:3;253:21,23,23; 255:22;256:10;257:9, 24 behavior (1) 223:22 behind (12) 25:8;32:6;34:18; 38:21;93:5;136:7; 140:5;142:3;207:23; 212:5;256:13,17

behind-the-scenes (1) 18:12 beings (1) 219:18 Beliefs (1) 34:2 believing (1) 236:25 bell (1) 64:10 beloved (2) 43:18;119:13 below (1) 154:8 Ben (6) 175:20;183:3; 188:23;189:3;191:8; 194:8 Benbrook (18) 213:22;220:16; 224:14,15,15,16; 226:25:228:21:229:2: 230:21;232:17;234:6; 235:22;236:6,11; 237:22;276:12;279:9 bench (1) 209:23 benchmark (1) 155:14 benchmarking (1) 261:23 benchmarks (1) 267:16 beneficial (4) 140:10;203:21; 251:19;291:23 benefit (6) 82:5:198:9:204:14: 230:6;247:22;270:23 benefited (1) 228:14 benefits (12) 8:8;67:13,15;90:16; 105:18;108:4;117:10; 227:18;241:24; 244:21;267:1;268:6 Berra (1) 264:20 berries (1) 57:14 besides (1) 217:3 best (14) 12:15;75:2,15,25; 94:24;111:8;119:17; 136:1;140:1;148:22; 244:15;261:25; 283:10;295:7 bet (3) 235:20:241:11; 301:12 Betsy (1) 125:15

better (43) 34:3:61:23:63:7: 67:3:74:20:78:13: 81:23:83:1:86:11: 89:9;159:7;161:23; 162:10;164:23;174:5; 185:16;188:11; 193:12:202:24:203:7; 208:17;211:25; 212:13:215:8,10,11, 14,14;216:4,6;219:4, 19:232:19:235:5; 242:11;251:2;253:16; 261:4;270:4,4; 272:24;285:12;295:4 beyond (15) 11:9;101:15; 102:16;110:9;111:12; 114:24;132:24; 162:16;203:1;204:2; 208:4;213:11;273:15; 287:18:293:14 biased (1) 176:15 biases (1) 192:1 bifenthrin (1) 225:12 big (41) 13:20;18:19;26:16; 36:7:37:25:56:6:60:1: 64:5.11.19.24.24: 74:6;79:1;87:13; 90:24:91:16:125:9. 17:126:15:171:3.4, 12;176:23,24;179:1; 192:2;194:6;199:15; 212:12,12;230:1; 239:17;241:22;242:6; 243:12:249:17:253:6; 267:24;291:5;301:2 bigger (3) 208:18;280:22,22 biggest (4) 39:18;198:15; 231:16;277:20 bilingual (1) 210:6 bill (20) 12:25;13:3,4,14; 94:2;141:19;146:8, 14;168:11;175:20; 183:2,5,23;185:2,7; 188:17;202:8;213:15, 16;215:3 billion (10) 10:2;169:9;177:11, 22;184:10,10;215:4, 6;216:6;280:16 binder (1) 176:5 bing (1) 215:19

- Vol. 3 April 29, 2024

bins (2)188:6.7 bioassays (1) 267:18 bio-based (2) 269:20;272:15 biodegradability (2) 240:8,11 biodegradation (2) 152:4,19 biodegrade (1) 154:18 biodiversity (1) 291:22 biological (5) 154:25;244:9; 264:14;265:18,22 biomass (1) 154:23 **Biomaterials** (2) 272:14,23 **Biopolymers** (2) 273:5;275:19 biosolids (1) 242:22 **BIPOC (2)** 120:23;205:13 **BIPOC-centered** (1) 130:13 birds (4) 177:6:178:10; 179:2:182:15 bird's (1) 178:1 birth (1) 111:23 bit (78) 6:21;9:12,23,24; 10:9;11:9,10;16:5,17, 21;17:11;23:25;24:4, 22;26:25;27:2;28:16; 30:12:32:14,19; 34:23;37:6;48:4;53:2, 4,4;55:21;57:8;58:25; 59:9,24;72:22;75:13; 81:15;83:14;84:17; 85:12;87:14;92:22; 93:5;99:5,7,14,23; 105:6,12;106:3; 112:13;129:21; 136:14:137:10:138:1; 140:21;142:4;153:5; 163:6;172:11;174:22; 178:21;191:12; 196:25;209:25; 210:15;211:21; 215:22;218:20; 219:14;248:5,11; 250:13,22;253:9; 257:13:258:14; 264:10;288:24;294:4; 301:13 bite (1)

Min-U-Script®

Spring 2024 Meeting				April 29, 2024
125:17	23;159:1,15,17;	76:13	76:6	broilers (2)
Black (19)	161:15;163:5,15;	born (4)	break (15)	176:18,19
117:17;120:23,25;	166:1;167:9;168:7;	23:5;55:5;124:20;	7:12;35:19;93:8;	broken (2)
	170:25;171:7;172:13,			
129:25;130:16,23;		158:19	95:2,6;142:6;202:6;	211:8;240:7
131:3,9,16,17;177:2,	23;174:14,18;176:8;	both (33)	213:23;220:17;	broker (9)
8,16,19,23;178:3,6;	178:6,18;179:16,19,	6:12,23;18:2;43:4;	234:22,23;238:16,18;	55:17;60:22;61:4,6;
179:12;181:1	21,25;181:3;182:1,	61:16;64:9,12;67:19;	245:13,15	69:10;77:17;92:3,11;
blemish-free (2)	24;185:6,12,15,18,21,	85:2;97:25;106:17;	breakdown (2)	254:17
237:12,18	24;186:2,6;187:3,6,	109:10;115:24;	244:10;245:21	brokerage (1)
blend (2)	19;188:12;191:8;	160:23;163:12;169:1;	breaks (1)	195:4
274:8;275:16	192:5,9;194:20;	179:21;186:2;190:18;	201:7	brokers (24)
block (13)	196:22;197:5,8,20,23;	194:16;221:3;223:10,	breeders (1)	49:19;51:11;57:24;
168:15;276:1;	198:1,23;202:20;	24;238:24;244:25;	255:12	58:4;60:6,13,14,17,
281:18;286:5,9,9;	204:18;205:1,8,11,22;	249:25;254:24;	Brian (15)	18,24;63:20,24;67:9,
289:4,23;290:8,15,20;	206:5,15,19;207:2;	262:25;265:16;270:9;	20:18;73:21;76:3;	11;68:15;76:9,17,18,
291:2,6	210:17;212:7;213:4;	285:16;293:17;296:9	118:10;157:11;226:4;	18,23;77:6,16,23;
blocked (1)	214:2,3,14,17;217:7,	bottle (1)	233:11;258:10;263:7;	91:11
91:20	19,25;218:4,24;219:2,	7:1	269:1,6;271:14,15,16;	brought (9)
blood (1)	20,25;220:1,14;221:2,	bottleneck (1)	289:24	47:25;88:19;
158:18	3;223:4;228:10,22;	194:6	bridge (3)	116:25;133:9;144:10;
blow (1)	230:8,12;233:13;	bottom (2)	130:11;260:5,5	185:9;188:4;221:13;
199:21	235:19,23;236:7,9;	188:5:242:3	bridges (3)	256:8
		boundaries (4)		brown (1)
blowing (2)	237:10;240:20;		117:1;130:21;	
167:12;199:15	241:15;243:2,22,24;	81:8,8;85:9;86:19	222:18	182:11 Brock (46)
blown (3)	245:16;246:16;	bourbon (1)	brief (1)	Bruch (46) 19:2;22:2,5,6;
199:13;300:12,13	250:20,25;251:7;	112:5	235:20	, , , , ,
blows (1) 166:19	253:17;254:23,24;	box (2) 39:15;49:5	briefly (4) 44:24;116:17;	28:22,24;42:21;
	260:9,11;261:10,13, 17;262:7,10;263:1;	boxes (1)	269:18;274:6	78:21;83:10;89:1; 139:17;146:18;
blueberries (1) 21:17	265:9;268:24;269:5;	68:15		147:20;148:12;149:5,
		boy (2)	bring (26) 7:17;14:11;72:23;	
blunt (1) 238:12	271:16,23;272:4,7,19;	29:9;246:4		8,21;154:11;166:3;
	275:2,7,20,23;278:2,		77:4;106:14;117:11;	167:6;173:6,8,15,17;
board (275)	6,18;279:16,19;	BPI (14)	119:9;126:6;127:5;	174:9;181:5,14,20,24;
6:12,15,17;7:9,9,10,	280:20;281:11;282:1,	143:22,23,25;	131:12,17,18;132:12;	192:11,20;194:7;
12,20;16:18;17:23;	2,21;283:14,23;	147:16;153:8,16;	161:2,22;167:19;	199:2,24;203:12;
18:16,17,19;19:1,4,6,	284:7;285:12;286:1;	154:16;159:6,17,19;	172:20;204:12;	216:9;230:11;232:2;
10,12,15,21,22,24;	288:23;289:20,25;	160:5;264:24;269:13;	214:12;215:24;	233:12;257:10;258:6;
20:1,10,17,19,25;	290:12;294:24;297:9,	271:10	222:23;224:18;230:2;	290:17,21;291:5;
21:9,14,16,21;22:2,5,	18;300:11	BPI's (1)	275:14;286:16;	293:20;294:13
23,25;23:16;24:13,22,	boards (2)	270:21	292:20	buck (1)
23;25:1,6,13,15,22;	24:22;26:8	brag (1)	bringing (11)	227:10
28:2,5,15,16,25;30:4;	Board's (7)	40:11	6:6;47:16,18;51:25;	bucks (1)
31:15;39:2;40:7,25;	6:18;18:1;29:15;	brain (1)	102:1;104:2;133:13;	218:16
41:8;43:18;44:2,3,6,	249:7;277:15;281:3;	279:17	140:24;181:20;	buddy (1)
18;69:18;70:1,2;	282:23	brainstorming (1)	191:23;224:3	6:8
73:21,24;74:19;76:4;	boast (1)	256:7	brings (4)	build (12)
77:12;78:16;79:1,14,	9:24	brand (8)	27:7;111:15;	103:11;115:9;
16;83:13;85:25;86:9;	bodies (1)	38:9,10;40:5;42:17;	119:10;142:2	195:21;197:19;198:9;
87:9,12;88:1,4,15,21;	158:18	64:24;65:5;125:25;	brittle (1)	222:18;229:4;232:23;
93:9,22;94:18,21;	body (3)	256:23	175:5	245:5;259:18;298:10;
95:1,11;97:16;	98:1;231:10;239:8	branded (2)	broad (4)	301:2
111:22;114:25;	bono (1)	166:12;168:3	68:14;88:7;104:22;	building (14)
118:25;121:15;	276:8	branding (2)	106:19	99:12;100:2;104:4;
124:18;125:24;	Boom (1)	39:23;43:5	broadening (1)	105:23;110:8;111:13;
129:22;132:3,17;	283:25	Brandon (1)	162:9	130:9;175:13;179:13;
136:11;137:6;139:15;	boost (3)	134:8	broader (1)	224:18;226:8;227:3;
142:25,25;143:11,12,	191:5;192:3;252:23	brands (8)	264:11	245:3,8
13,14;145:24;146:1,	boots (2)	34:23;35:5,5;38:12;	broadly (2)	buildings (1)
13,16;149:24;150:19,	131:1,4	144:23;145:3;167:17;	154:1;163:12	130:21
24;151:2,5,9,12;	border (6)	168:4	broccoli (2)	built (8)
153:2;155:18,20;	48:16;52:15;55:13;	Brazil (1)	225:12;253:10	117:2;147:16;
156:12,16;157:12,25;	56:3;57:15;58:1	22:14	brochure (1)	210:10;215:1,2;
158:2,5,10,12,16,20,	borders (1)	breadth (1)	97:2	217:22;224:21;
	1	1	1	1

- Vol. 3 April 29, 2024

- Vol. 3 April 29, 2024

Spring 2024 Meeting				April 29, 2024
265.22			25.256.15.250.19.	10.5.14.15.17.16.
265:23	~	campuses (1)	25;256:15;259:18;	12:5;14:15;17:16;
built-in (1)	С	105:3	260:12;261:24,25;	63:4;89:25;131:12;
145:16		can (256)	262:1,24;265:1,5;	216:1;237:4;295:1,8;
Bulgaria (1)	CACS (2)	6:9;9:3,4;11:22,22;	266:17;269:3;270:4,	297:6;301:8
21:6	22:8;86:17	14:15,16,20,21;15:9,	15;272:15;274:24;	career (8)
bulk (2)	cadence (1)	21;22:1,2,4,22,23;	275:16;282:18;283:2;	8:11;9:5;24:20;
193:15;282:19	95:17	23:6;25:9;26:4,5,22,	285:2;287:24;288:24;	122:3,12,17;224:21;
bullet (1)	calculated (1)	22;27:1;31:18;32:3,	290:19,19;296:7,17;	238:1
37:23	225:20	22;34:23;35:2,3,18,	300:20;301:19	careful (1)
Bulletin (1)	CALDWELL (26)	19;36:20,23;37:11,12,	Canada (8)	79:23
10:22	20:17,18;76:4;	14;38:9,14,15;41:3;	50:3;56:24;145:13;	carefully (2)
bunch (5)	77:12;78:16;157:12,	43:1;45:12,23;48:19;	155:5;218:8;254:8;	185:13;221:6
27:8;91:20;166:18;	25;158:2,5,10,12,16,	49:5;52:7,11;54:18;	263:20;267:5	cares (3)
227:7;279:2	20,23;159:1,15;	57:11;59:3,4,7,12;	Canada's (1)	63:3;135:12;228:13
burden (3)	233:13;271:16,23;	60:14,15,16,22;61:1;	267:7	Carolina (4)
85:18;197:16;223:9	272:4,7;275:7,20,23;	62:13;63:8;68:4,20;	candidates (2)	21:19;269:7;
burdens (1)	289:25;290:12	71:18;72:10,14;	87:16;88:8	270:24;300:25
273:6	Caleb (1)	73:25;74:8,19;76:11;	canned (1)	Carolina's (1)
Bureau (2)	194:21	77:16;78:14;79:11;	229:22	271:1
203:18,25	calibrate (2)	82:10;83:3;85:10,11;	cap (3)	Carolyn (5)
business (41)	68:4;110:4	86:2,11,17,22;88:18;	180:17,22;182:8	21:9;93:7,21;223:3;
6:16;7:20;15:2;	California (21)	89:5,6;90:10;94:25;	capabilities (1)	279:15
21:8;43:22;51:11;	20:16;21:1,23;	96:5;101:14;102:22;	233:3	carriers (1)
64:2,16,18;66:11,13;	122:2;144:10,14;	103:1;104:12;105:4,	capacity (9)	184:25
80:6,6,7,10;85:10,24;	145:4;146:4;147:15;	8,22;108:8;113:24;	154:17;169:8,12;	carrot (4)
113:14;166:12,15;	210:3,7;211:10,16;	114:14,21;115:12;	175:1,2;181:10;	126:8,11;218:23;
167:1,15,18;186:21,	214:2,15,16;217:13;	116:16;117:10,11;	204:10;284:21;288:2	284:22
22;195:25;196:16,18;	258:13;261:23;276:3,	118:7;119:25;121:1,	capital (3)	carry (1)
205:7;208:12;210:12;	9	4;123:18,22;124:5,8;	21:15;112:24;	125:18
216:3,13;237:4;	CALL (26)	125:13;127:2;128:14,	195:11	cars (5)
262:3;263:16;265:20;	6:4;15:12,13,20;	19;129:22;130:7,23;	capitalists (1)	195:19;198:14,16;
277:10;280:5;285:23;	19:11;23:12;27:17,	131:21,22;133:3,16,	232:19	199:6,11
301:8	18;44:25;61:4;69:13;	22;135:10,17;136:17;	capsule (3)	case (10)
businesses (19)	84:24;87:20,25;	137:20;138:1;140:15,	169:2,19,20	31:20,22;46:22;
12:8;43:20,21,25;	92:11;120:3;130:3;	16;143:3,4,11;144:4;	capsules (5)	84:8;85:6;115:2;
44:3,5;45:21;51:17;	134:25;143:1,16;	147:7,21,22;150:8,9,	169:7,9;172:2,11;	191:4;193:15,21;
77:20;85:1,1,15;	161:15;203:1;214:20;	13;151:3;152:1;	175:5	249:10
104:23;109:2;168:16;	249:18;257:1;263:16	153:2,12,24;157:5;	captured (1)	cases (3)
195:17,21;220:23; 284:10	called (10)	158:6;159:10,17; 162:14;165:16;	149:6 captures (1)	89:11,11,17 cast (1)
business's (1)	66:17;71:7;80:6;	168:23,24;171:18,18;	48:13	25:12
167:21	91:12;132:1;136:12;	174:1;175:17;176:12;	capturing (1)	castration (1)
busy (2)	167:25;176:20;182:4;	177:2;178:20;180:1;	30:22	296:19
106:25;296:11	267:21	181:17;183:8,12;	car (2)	casts (1)
Butter (1)	calling (4)	181:17,185:0,12, 184:14;185:13;186:6;	199:18,22	157:24
17:2	60:10;64:5;131:18;	188:3;189:2;192:3;	carbon (4)	catalyst (1)
button (1)	201:20	193:1,13;198:4,7;	251:8;266:4,7;	197:2
112:9	calls (4)	199:9;201:23;202:2;	301:3	catch (5)
buy (12)	42:15;67:12;91:24;	203:6;204:11,21;	carbonates (1)	9:7;149:3;167:11;
69:11;196:1,4,5,7,	92:13	205:10,18,23,25;	236:14	218:10;283:19
7;237:20;250:3,4,4;	came (27)	206:2,14,16;207:8,25;	carbon-to- (1)	categories (1)
256:24;262:20	7:15;39:17;40:14;	209:19;210:3,5;	266:1	88:12
buyer (1)	44:13;72:12,25;	212:4,20;214:22;	carbon-to-nitrogen (10)	categorization (1)
85:7	90:20;94:2,13;113:7;	215:25;216:23;217:7,	243:25;244:7,14,	73:10
buyers (3)	114:24;118:14;125:3;	24;220:3,5,9;221:2;	18;245:4;265:11,14,	category (9)
51:15;254:2;278:16	129:12;133:20;	223:10,14;225:10;	17,19;266:13	71:6,24,24;128:19;
buying (4)	171:15,17;180:18;	226:9,16;227:9,12;	carbs (2)	169:16,16;171:13;
215:7,7;216:5;	196:6;203:4;225:6;	230:1;232:14;233:2;	236:17,21	175:11,17
293:5	226:25;227:15;229:5;	235:1;236:24;239:23;	carcinogens (2)	Cathleen (8)
by-crop (2)	257:3;295:3;299:11	240:5,24;241:1,1;	154:25;162:3	226:4;272:11;
283:5;287:11	campaign (2) 213:7;219:8	242:20,22;243:20;	card (1)	276:1;281:18,20;
byproduct (2)	camps (1)	244:22,24;247:1,24;	209:5	286:18,22;287:5
177:24;238:9	126:19	253:16;254:19;255:9,	care (12)	cattle (2)
	120.19			

opring 2024 Meeting				
19:17;121:18	CEO (2)	44:5;45:13;46:6,20;	219:19,19;229:23	297:7,19,21,23;300:9;
caught (1)	183:5;206:23	47:3,7,18,20,21;49:1,	CFR (3)	301:9,12
119:11	certain (9)	2,17,17,23;51:25;	226:15;270:15;	Chairman (3)
cause (4)	24:10;58:14;130:6;	52:3,11,15,18,21;	272:1	214:3;286:14,25
29:17;193:7;	175:5,6;178:11;	53:1,6,7,10,15,18,23;	CGC (1)	chairs (1)
217:17;296:7	192:24;270:5;284:17	54:3;61:19,22,24;	283:11	6:6
caused (1)	certainly (21)	62:2,18,20;63:19,23;	chain (13)	challenge (21)
298:12	26:4;49:19;78:1;	65:10;66:6;67:8,19;	36:13;45:15;85:9,	15:6;89:22,24;
causes (1)	129:7,11;130:2;	68:1,20;70:8;79:16,	16,17;162:11;167:3;	116:25;138:16;
153:19	134:10;140:14;	20;95:23;106:9;	181:7;211:20;223:23;	173:20,22;174:1;
causing (3)	141:13;197:10,17;	107:21;110:13;118:1;	233:7;274:19;284:21	178:14;180:2;187:9;
144:19,20;273:4	207:18;247:1;248:1;	120:13;128:21;147:1;	chains (3)	190:3;191:25;207:7;
caution (1)	263:22;264:12,23;	148:2;162:17;163:13;	63:2;202:7;293:9	212:3;222:13;235:3;
162:15	265:15;267:15;268:6;	165:5;167:21;169:19,	chair (173)	237:25;265:25;
cautious (1)	297:13	21;178:2;190:24,25;	7:9;18:16,21,24;	274:12;293:3
264:22	certainty (1)	191:2;193:24;194:1,	20:7;22:1,4,7,7,21,24;	challenged (1)
caveat (1)	255:2	6;213:25;254:1;	23:4,7,12,22;24:17;	179:3
287:9	certificate (39)	257:15;258:20,23;	38:23;40:6,19;41:6;	challenges (22)
CBP (6)	45:25;46:8,12,13;	259:15;271:7;274:4,	42:20;43:4;69:10;	14:17,25;29:15;
56:25;57:17;59:14;	47:2;49:18,24;54:12;	23;276:4;287:20;	76:3;78:20;83:12;	59:22;61:13;75:21,
63:3;92:3,6	55:11,11,13;56:17;	289:21;292:18	86:7;87:8;88:25;	24;90:17;94:16;
CCOF (10)	57:16,25;60:8,12;	certifier (36)	90:19;92:18;93:21;	109:23;116:24;
206:23,24;209:18,	62:3,25;63:9,20,23;	23:10;46:16;47:4;	95:2,7;128:7;131:24;	119:24;127:18;130:5;
20;210:10;213:13;	66:2,2;68:13;69:2;	48:11;49:25;54:1;	135:20;137:4;139:16;	135:23;137:22,23;
214:3;218:2;276:5,11	81:3,9,11;83:3,5;	55:9,15;56:9,11;	141:15,24;142:7;	181:9;193:5;196:24;
CCOF-certified (1)	86:23;91:22,25;92:1;	61:15;66:19;68:1;	143:4,5;145:24;	292:23;298:8
207:3	164:14,15,16;168:1,1	71:20;72:3;80:1,9;	146:17;149:23;153:1;	challenging (6)
CCOF's (1)	certificates (48)	83:24;84:2,6;85:21;	154:10;155:17,19;	14:19;152:8;159:9;
207:2	45:14,25;46:2,3,3,5,	90:12;147:16;151:6,	157:10;159:16;	267:3;285:24;294:2
Cedar (1)	20,24;52:8,10;53:16;	6;161:13;162:24;	160:10,13;163:3,16,	championing (1)
123:14	55:3,5,9,12;56:2,8,9,	166:24;167:25;	18;165:20,23;167:8;	104:24
ceiling (1)	14,22;57:5;58:6,21,	207:10;208:16;209:2;	168:9;170:16,18,20,	chance (7)
37:18	22,25;59:11,19,22;	224:6;227:5,5;279:11	23;173:2;174:12;	72:13;91:8,8,9;
celebrate (3) 17:1;26:21;39:19	60:4;62:9,12,21; 67:25;77:7;79:1,17;	certifiers (84) 24:18;36:4,16;	175:18;176:2,3; 178:4,17;181:4,25;	149:5;197:19;284:8 chances (1)
celebrates (1)	82:2;86:14;164:5,7,8,	45:17;49:7;50:2,2,24;	182:25;183:2;185:2,	16:11
97:22	12,13,19,22;165:6,18;	51:5,13;56:23;58:2,5,	4;186:5;187:5,13;	change (18)
celebrating (1)	167:24	9,12,14;60:15;61:16,	188:17,19,23;191:7;	24:15;60:23;86:5;
39:20	certification (66)	23;62:8;63:1;64:23;	192:10;194:8;196:20;	92:22;93:22;131:18;
celebration (1)	12:20;23:8,9,9;	65:8,11;66:3,15,16,	197:22;198:25;200:1,	144:8,10;164:19;
126:16	24:8;27:2;51:18;52:5,	17;67:17,24;68:3,6,7;	4;202:19;203:11;	202:4;209:19,24;
Celery (3)	24;54:7;60:16;64:1,6,	76:14;77:22;80:13,	204:17;206:20;209:1;	220:5;231:18;234:20;
241:11,12;253:8	8;66:12;67:15;70:10;	14;81:17;83:25;	210:16;212:6;213:18,	235:2;255:19;264:5
CELLANIE (2)	71:24;87:23;92:19;	85:23;86:12;90:2,7,9;	21;216:8;217:18;	changed (2)
125:22;126:19	109:16;111:7;133:5;	92:24,25;159:8;	219:22;220:15;223:2;	29:4;51:21
census (1)	141:1,2;147:18;	161:11;162:13,22,23;	224:12,14;226:11;	changes (7)
106:5	148:9,14;149:8;	164:8;165:1,3,3,11,	228:9;230:7,10;	57:20;65:10;86:2;
Center (9)	153:17;154:16;156:4,	12;170:8;171:16;	231:22;233:11;	120:17;196:19;
14:23;44:9;91:23;	18,20,24;159:9;160:3,	173:24;184:15;	235:18;237:9;238:15,	211:21;254:22
123:12,14,15,16;	17,20;161:16;162:19,	200:18;201:3;207:18,	20;241:8,10,17,19;	changing (5)
209:20;276:9	20;163:11,21;189:13;	20;222:9,22;224:8,19,	243:1,21,24;245:25;	14:18;161:24;
centering (1)	206:24;207:12;208:3,	22;226:13,15,24;	246:2;248:22;250:19;	175:13;180:24;
209:19	4;209:6,8,21;210:11,	229:6;247:16;248:7,	253:19,21;255:21,23;	263:23
centers (6) 51:10:64:2 12 20:	12;211:11,14;213:8;	8,18;256:4;277:3;	257:7;258:9;260:7;	channel (1)
51:10;64:3,12,20;	218:20;234:18;	278:22;279:5,8;283:1	262:9;263:3,6;265:6;	301:24
70:7;109:1 central (10)	248:17;259:22; 292:22,23;293:6;	certifier's (1) 92:16	266:14;268:25;269:5; 271:14;272:10;275:4,	channeling (1) 108:13
20:21;22:9;64:16;	292:22,23,293:0; 295:21;300:16	92:16 certify (3)	25;277:25;278:19;	channels (1)
108:25;118:12;130:5;	certifications (3)	155:5;160:17;293:8	279:15;281:10,17;	268:12
164:25;194:22;	54:11;147:5;157:6	certifying (2)	283:12,25;284:3,6;	character (2)
202:12;301:20	Certified (90)	49:7;294:10	286:3,5;288:21;	60:8;142:21
centralized (1)	10:21,24,25;11:5,5;	cetera (5)	289:24;290:16;291:7;	charge (2)
293:6	20:22,23,24;43:20,22;	140:9;199:9;	293:18;294:18,21;	74:22;77:3
			. , , ,	

- Vol. 3 April 29, 2024

colleagues (5)

Spring 2024 Meeting	
Charles (3)	67:8
213:22;220:16;	choosing (3)
224:14	69:12;144:2
Charleston (1)	268:16
269:7	chore (1)
chart (2)	199:20
48:18;184:7	chosen (1)
chase (3)	98:10
58:9,9;204:21	Chuck (7)
Chasing (3)	224:15;226:
156:14,19,19	228:11;232:
chats (1)	238:15;278:
107:5 aboon (2)	Chuck's (1) 228:12
cheap (2) 195:24;217:15	churning (1)
cheaper (2)	31:11
175:2;196:8	Cindy (1)
cheating (2)	89:2
217:5,16	circulating (1
check (5)	139:25
43:12;48:10,13;	circumstance
92:6;118:12	230:24
checkboxes (1)	cite (2)
161:10	227:17;240:
checking (3) 48:8;77:7,8	cities (1) 144:22
checkoff (1)	citing (1)
183:25	277:11
cheese (7)	citizen (1)
10:4,5,6,11;112:2,	180:20
4;164:4	citric (2)
chemical (5)	248:23;249:
33:3;121:21;122:5; 148:23;231:15	city (1) 148:21
chemicals (4)	civil (2)
34:6;123:20;	88:1,12
157:23;298:25	CJ (3)
cherishing (1)	272:13,14;2
29:9	claims (1)
chew (1)	277:13
125:17 chicken (3)	clamshell (1) 41:4
182:5,20;284:3	clarification (
chickens (2)	144:3;171:3
182:9,11	276:24;278:
Chief (2)	clarifications
8:16;246:10	146:21
child (1)	clarify (1)
180:19 children (4)	65:8 clarifying (1)
126:8,12;227:24,25	137:10
Chile (1)	clarity (3)
217:11	150:13;201:
China (1)	Clark (1)
169:4	17:12
Chino (1) 176:1	Clark's (1) 298:16
choice (1)	classification
30:3	171:14
choices (3)	clause (1)
55:22;124:10;	250:9
184:21	clauses (1)
choir (1)	249:5

Claypool (1) 18:4 25; clean (7) 198:17;199:19,22; 237:19:264:3,4,4 cleaning (2) 73:6;284:15 cleanliness (1) 199:6 5:12;clean-out (1) :2;233:13; 199:8 :20 clear (13) 24:12;45:24;86:18; 89:4;134:10;145:21; 196:23;221:24;237:7; 245:16;270:18;279:4, 4 clearance (1)) 45:4 clearly (7) s (1) 59:11;94:24;96:16; 142:23;248:12; 250:11;287:4):9 click (2) 38:15;176:12 client (2) 287:19;288:4 clients (8) 64:23;68:3;90:10, 10;98:6;207:21,24; 295:7 :20 cliff (1) 141:2 climate (16) 8:8;115:10,12; 137:9;145:7;202:4; 215:9;271:1;273:23; 274:8 291:13,21,24;292:3, 12,12;293:2 climate-smart (2) 145:22:291:20 climb (1) (4) 199:19 3; cling (1) :24 37:11 (1) close (15) 7:19;14:12,13; 16:10;45:7;59:15; 72:15;174:20;181:17; 196:16;268:21; 277:12,12;280:15; 285:3 :2;252:2 closed (1) 25:8 closed-loop (1) 148:5 closely (5) (1) 13:2;81:25;189:22; 228:3;270:22 Closer (3) 20:23;49:9;229:8 closing (7) 170:14;239:20;

242:7,9:283:6,14; 288:17 cloud (1) 235:16 clout (1) 234:21 club (1) 100:12 co- (1) 167:18 CO₂(2) 185:10;251:3 coach (1) 118:5 coached (1) 24:8coaching (1) 119:19 coalescing (1) 101:5 coalition (5) 101:13;162:6; 238:25;254:20; 270:25 coast (5) 21:18;178:22; 195:19;260:15; 281:16 coating (2) 273:12,13 code (10) 37:5;38:15;40:3; 59:13:60:6.8.10; 61:22;62:4;156:22 codes (1) 67:20 co-developed (1) 148:18 coffee (6) 107:5;147:23; 188:7,8,9,10 co-founder (1) 258:16 coherent (1) 231:4 cohort (1) 117:25 cohorts (2) 106:24;107:4 coincides (1) 214:13 collaborating (1) 259:7 collaboration (6) 64:22;103:24; 106:22;150:14; 222:23;295:14 collaborative (2) 85:21;100:16 collaboratively (1) 98:20 colleague (2) 73:2;112:3

220:3,6;221:11; 232:22;282:9 collect (2) 150:8;282:16 collected (2) 170:4;229:3 collecting (3) 78:4;103:1;108:13 collection (3) 129:15;144:12; 145:6 collective (3) 145:21;202:13; 292:24 collectively (1) 41:2 College (6) 23:13;105:3; 107:24;108:8;122:2; 253:6 colleges (1) 107:25 colon (2) 273:11,14 Colorado (1) 147:15 coloring (1) 148:10 colors (1) 39:25 combinations (2) 78:2,3 combine (1) 125:2 coming (52) 11:14,15;15:24; 24:4;25:14;45:10; 48:5,10,23;49:6;52:6, 9:54:25:55:25:57:13: 65:7;76:24;78:11,13; 79:10:81:19,25:82:2; 104:1;107:17;111:9; 115:3,19;125:20; 135:13;140:25;145:2; 149:14;150:11;169:3; 175:3;206:17;217:2, 11,15;218:9,11; 219:5;225:2;227:21; 243:6;244:9;251:16; 254:22;261:4;280:22; 281:8 command (1) 233:7 commend (2) 213:5,14 comment (37) 24:6,9;36:20,23,25; 40:14;90:20;93:18, 19;135:22;142:5,19, 20;154:14;160:19; 161:1:181:8:195:9: 203:15,15;216:12;

1 0 0			
221:9,23;223:12;	13,20;68:14;166:21;	177:4;179:12;215:4;	85:20
232:6;243:2;249:22;	290:4	224:16;232:13;	component (6)
251:3,23,24;253:4;	commodity (5)	246:11;249:24;264:6,	12:13,14;71:1;
254:2;272:18;286:17;	78:2;173:23,25;	10;272:22;274:5;	83:20;275:8;277:20
288:12,23;294:14	195:11;234:21	282:13;286:12;289:8,	components (4)
commentary (2)	commodity-country (1)	10;291:3;299:1,10	230:22;242:4;
160:11;212:25	78:2	compare (2)	275:10,23
commenter (1)	common (11)	59:14;157:5	composition (1)
294:22	29:24;39:19;67:24;	compared (1)	57:20
commenters (1)	85:24;148:1;259:2,	270:5	compositions (1)
116:25	17,18;274:2;300:15;	comparing (1)	169:21
comments (83)	301:1	52:22	compost (61)
7:15;28:14;29:12;	commonly (1)	comparison (1)	7:18;21:25;143:24;
36:25;74:12;91:7;	295:17	280:6	144:4,19;145:20;
142:10,14;143:20,22;	communicate (2)	compatible (1)	146:4,20,24;151:15;
146:1,6,20;151:7;	54:24;259:17	75:12	152:11,12,21,23;
152:15;153:5;154:13;	communicating (2)	compensated (1)	155:2,4,10,13,16;
163:2,5;165:19,21;	44:20;63:22	205:9	188:2,6,6;221:19;
166:4,6;173:21;	communication (7)	compete (1)	239:4,18,23;244:6;
174:4,15;176:3;	134:10;136:25;	196:4	245:3,6,14;255:16,17,
182:2;183:8,15;	190:2,3;198:7,12;	competent (1)	18,18;263:12,20,24,
185:9;194:16;198:2;	233:8	204:24	24;264:1,2,5,9,11,18;
202:20;204:19;214:5,	communities (16)	competitive (2)	265:1,11;266:2,4,11;
6;216:11;221:12,18,	85:25;96:8;101:6,8;	173:16;268:14	267:1,10,20;269:13,
19;223:5;226:5; 227:13;233:21;	108:12;116:11; 121:20;204:15;	compilation (1) 276:21	19;270:20;271:5,7, 12;272:19;273:25,25
238:19;240:17,23;	230:17;240:16;	compile (1)	compostability (5)
238.19,240.17,23, 241:1,3,4,21;243:3;	258:15;259:1,3,19,19;	224:19	145:15;156:24;
244:13;246:25;251:1,	281:25	complain (1)	240:2,11;271:11
1,20;257:19;260:12;	community (68)	25:9	compostable (40)
261:14;265:10,14;	6:25;16:20;18:19;	complaint (1)	143:24;144:1,9,11,
266:22;268:25;	25:18,23;27:2;29:1,	207:14	14,14,18,25;145:4,5;
269:19;275:5,7;	14,20;30:19;36:8;	complaints (2)	146:9;147:1,2,9,11;
276:14,15;277:5;	40:13,17;45:20;	66:16;160:4	148:2,9,15;150:4;
279:17;283:24;284:8;	63:16,24;67:4;74:19;	complete (3)	151:10,14;152:18;
286:3;288:21;291:7;	83:17,24;84:2;86:12;	89:20;111:10;	155:24;156:1;159:19,
293:18,22;294:7,19;	91:1;99:12;100:2;	240:10	25;160:2,7;239:19;
300:12;301:9	103:11;104:15;	completed (5)	240:12;241:21;271:8;
commercial (13)	105:20,23;106:2,10,	6:20;19:22;52:24;	272:16;273:20;274:4,
169:14,17;247:6,	10,19;107:7;111:13;	71:19;111:7	9,15,16,20,23
10,21;248:6;249:1,5;	122:8,21;125:15,16;	completely (6)	compostables (1)
250:9,14;256:20;	127:6;135:11,15;	33:9;98:4;119:14;	241:25
283:13;288:25	140:11;144:24;163:2;	123:4;237:19;240:6	composted (1)
commercially (1)	186:10;197:2,11;	completing (1)	273:21
258:1	199:3;204:8,21;	21:18	composter (4)
Commission (2)	205:10;206:2;227:8;	complex (1)	151:8;153:23;
202:15;298:13	230:3;233:4;237:4;	207:18	263:13;273:25
commitment (12)	248:20;249:10;	complexities (1)	composters (7)
8:6;28:9;30:7;	251:16;252:9;259:10,	50:1	146:10;151:13;
97:21;113:23;115:22;	17;262:11;269:16;	complexity (2)	244:14;270:22,25;
199:3;254:5;257:12;	272:17;274:24;	54:9;83:5 compliance (8)	271:2,4
283:23;292:13;293:2 commitments (1)	280:25	52:1;111:4;147:19;	composters' (1) 271:6
291:17	community-building (1) 104:3	165:8;167:20;170:5;	composting (13)
committed (4)	companies (19)	222:23;267:8	144:2,21;145:18;
29:13;103:14;	42:2,2;58:10;77:22,	compliant (2)	152:14;153:21;
113:21;120:19	23;169:23;223:15;	47:23;48:10	263:13,15;264:17;
Committee (8)	224:23;225:25;	complicated (4)	265:20;266:10;268:7,
6:18;206:24;283:9,	282:10,17,20;285:25;	83:9,21;231:2;	16;270:22
12;286:14,25;287:4;	287:19,24;288:4;	237:25	comprehensible (1)
297:1	300:3,7,19	comply (2)	142:25
commodities (8)	company (21)	71:22;76:22	comprehensive (4)
10:14;11:3;57:12,	169:8,17;174:23;	complying (1)	12:24;13:5;30:1;

- Vol. 3 April 29, 2024

78:19 comprised (1) 163:12 computer (2) 114:19;217:23 conceive (1) 231:4 concentration (1) 252:23 concept (2) 64:13;241:23 concern (6) 96:20;113:2; 164:12;243:7,12; 268:22 concerned (8) 50:11;52:17; 157:22;224:4;236:15; 257:21;267:14; 295:16 concerns (18) 64:10,11,13;96:22; 116:18;143:1;152:10; 156:6;165:5;226:21; 243:5;254:17;267:14; 282:16;291:13; 292:15,21;293:24 concluded (1) 110:19 conclusion (1) 274:23 conclusive (2) 171:9.11 concrete (1) 74:9 condition (6) 120:25;130:22; 131:3,8,16;218:12 conditions (1) 289:7 conduct (4) 105:12;110:15; 190:11;285:8 conducting (1) 282:17 conference (7) 70:24;76:19;96:14; 113:15,17;134:4,6 conferences (4) 102:8;105:13; 134:2,16 confession (2) 126:24;127:2 confidence (6) 67:4;168:17;212:4; 283:6;285:2;293:14 confident (1) 196:10 confidential (1) 65:25 confirmed (1) 41:21 conflict (1)

Burke Court Reporting & Transcription (973) 692-0660 (10) commentary - conflict

85:13 conflicts (1) 73:7 confused (1) 46:1 confusing (2) 32:1.4 confusion (1) 32:7 congratulations (4) 17:6;18:16;21:20; 31:10 Congress (4) 105:19;141:22; 186:19:236:12 connect (11) 12:22;14:4;30:18; 42:17;45:23;105:17; 119:2;135:19;137:20; 189:14;293:9 connected (2) 13:12;109:9 connecting (1) 13:16 connection (8) 12:25;13:10;96:5; 99:13;106:14;108:21, 25:193:8 connections (5) 98:17:106:1.18; 205:16;206:3 consensus (1) 226:8 consequences (1) 207:6 **Conservancy** (1) 259:7 conservation (19) 20:3,7;27:23;70:13; 75:7:108:2:114:1.6. 14;135:6;189:17; 191:5:209:14,16,16; 210:2;291:20,21; 292:3 conserving (1) 209:12 consider (9) 27:24;37:1;90:14; 137:24;141:5;153:13; 183:14;221:6;296:25 considerably (1) 179:11 consideration (1) 271:13 considerations (1) 175:6 considered (1) 248:3 considering (4) 141:10:163:14; 244:2.3 consistencies (1) 165:16

consistency (7) 27:14:84:25: 138:20:170:11; 222:16:244:16: 247:11 consistent (7) 85:14:164:7: 200:16:201:21; 248:19;266:24;290:1 consistently (4) 13:3,19;201:3; 202:3 consolidated (1) 248:19 consolidation (2) 202:4,6 constant (2) 120:5;130:14 constantly (1) 177:6 constraint (1) 129:8 constraints (3) 179:25;287:11; 289:19 constructive (1) 233:9 consult (1) 224:9 consultant (4) 188:9:189:4: 253:24:276:10 consultants (4) 109:19,23;110:3; 189:12 consultation (1) 277:17 consultations (1) 109:15 consulting (7) 15:2:22:13:109:12. 13;224:16,16;246:11 consumed (1) 152:1 Consumer (40) 7:7,23;8:1;12:16; 20:11,18;21:10,24; 32:7,10,22;33:7,10, 19;34:2,3;36:5,9; 38:7;40:4;109:4; 148:7,11:168:17; 211:8:212:17:214:18: 215:13,20;225:5,6; 229:5,9;234:11; 237:11,14,15,20; 292:15;293:14 consumer-facing (2) 37:6:42:4 consumer-focused (1) 157:3 consumers (33) 12:4;30:23,25;32:1, 8;33:15;34:15,18,21;

35:7:37:16:39:9.11; 40:2.3:104:24:157:7: 211:5;212:15,21,23; 219:7;222:3;227:14, 16;230:3,4,13; 234:11;238:4;239:14; 242:19;292:11 consumer's (1) 65:3 consuming (2) 228:7;296:12 consumption (2) 12:23:145:8 contact (6) 75:18:76:1:105:9; 130:14;182:17;202:1 contacts (1) 42:16 contain (2) 34:6;240:13 container (3) 84:10;85:5;161:19 containers (2) 161:17:199:8 contains (1) 34:25 contaminants (1) 274:2 contaminate (1) 242:21 contamination (4) 239:24:274:3.25: 299:19 contemporary (1) 228:5 content (2) 40:21;149:10 context (3) 24:23;133:9;209:2 continual (2) 145:17:153:17 continually (1) 162:14 continue (21) 7:18;14:18;16:14; 50:20;56:20;81:24; 90:4;100:4;102:17; 103:11;112:22; 117:18;141:20; 153:14;161:14; 171:23;202:5;241:2; 247:25;255:12;271:4 continued (4) 200:11,20;201:2; 238:19 continues (3) 202:5;222:4;280:13 continuing (8) 42:8;50:19;74:2; 108:15;112:15;161:2; 169:10:194:16 continuous (1) 292:3

continuously (1) 42:10 contract (8) 98:5:190:15: 192:16,18;194:3,3,4; 286:12 contracted (3) 192:18:287:18.22 contracting (2) 262:17:284:14 contractors (2) 298:19;299:1 contracts (5) 189:17,24;192:19; 193:16,21 contributed (1) 276:14 contributing (1) 225:21 contributor (1) 155:3 control (10) 27:1;68:2;109:25; 111:2;184:21;215:9; 295:18;296:1,18; 297:13 conventional (29) 60:23:85:3:91:13: 92:12;108:6;121:23; 122:22;124:1;133:8, 12:134:1:138:8; 145:14:147:11: 176:21;194:23;213:2; 214:21:224:25: 229:16:235:14; 242:23;272:1,25; 279:20;280:6;288:15; 289:1.12 conventionally (2) 122:13:137:12 conventionally-minded (1) 134:6 conversation (15) 66:10;79:16;84:6; 85:21;88:9;93:6; 96:17;113:1;132:3, 13;186:19;208:25; 224:3,5;262:15 conversations (16) 41:22;49:9;51:5; 64:4;82:15;100:15; 105:13:112:21:123:2: 133:24:140:14; 166:24;207:2;221:14; 242:2;285:24 conversion (1) 193:2 converted (1) 150:22 converting (2) 119:24;120:12 convey (1) 298:12

April 29, 2024 convince (1) 225:25 convinced (1) 50:13 cooking (1) 122:7 cool(4)12:10,19;21:20; 184:3 cooperating (1) 18:10 **Cooperative** (1) 163:21 cooperatives (1) 129:15 co-ops (1) 144:23 coordinate (2) 118:23;184:15 coordinated (1) 190:17 coordinating (1) 106:1 coordination (1) 202:24 co-packers (2) 167:2,16 coping (1) 247:16 copv(2)23:17,17 **core** (8) 99:9;100:20,21; 101:14.15:128:2: 129:14:139:9 Cori (9) 95:21,22,23:96:9, 12;97:5,14;98:25; 100:11 Cori's (1) 96:3 corn (27) 10:13;106:7; 121:23;122:13; 123:22;166:21;195:1; 225:12;257:1;286:13; 287:20,24,25;288:1,5, 6,7,13;289:5,9,11,14;

290:18,22,24;291:1,4 corn/soybean (1) 231:19 Cornell (1) 20:19 corner (3) 6:25;21:11;144:17 Corners (1) 299:6 cornerstone (1) 117:21 corp(1)264:23 corrected (1) 164:18

Burke Court Reporting & Transcription (973) 692-0660

(11) conflicts - corrected

224:9

cow (4)

10:25

correcting (1) 171:4 corrections (2) 23:18.19 corrective (3) 207:15,15;237:8 correctly (1) 150:14 corroborated (1) 154:6 cost (20) 65:14,15:76:13; 162:18:198:9:216:3. 13;242:14,14,16,17, 19:261:22,23:262:5; 274:18;275:14;288:8, 10;289:15 costing (1) 218:16 costs (9) 92:7;211:13,14; 218:20;260:17,17,19; 261:3.18 cost-share (1) 12:20 cotton (1) 188:15 council (3) 12:21;20:12;269:13 counterparts (3) 13:2;147:11:205:8 counties (1) 280:7 counting (1) 100:8 countries (10) 21:5;68:24;81:12; 89:19:98:5:211:18: 258:2,5;265:1;270:2 country (32) 9:10;37:18;48:25; 49:6:51:25:56:10; 57:6;74:17;79:8; 81:20;83:3;89:13,25; 108:13;113:17; 115:20;132:23;136:4; 155:25;176:18; 189:13;191:9;196:12; 231:5;255:3;256:14, 15;257:17,23,25; 260:23:270:24 country-to-country (1) 82:14 counts (1) 72:11 county (9) 107:17;112:1,5; 193:17;258:19,23; 259:12;298:7;299:6 couple (35) 11:16:30:13:49:14: 50:5,23:56:24:58:2; 59:21,21;61:19;68:7;

76:19:87:12:89:10, 27:10:100:16 credit (2) 17:92:13:93:4: 45:5;196:1 107:14;129:12;139:2, 12:146:20:157:10: CREEK (4) 123:12,14;276:3; 163:13;185:19;186:7; 214:4;217:12;221:24; 298:6 225:7;264:19;284:2; crew(1) 27:24 286:10,18;287:2 coupled (1) crisis (1) 170:12 286:23 course (12) criteria (10) 19:23:99:23: 85:11:87:21; 100:25;110:6;113:14; 149:11:154:25: 114:6;134:3;166:17; 155:13,15;156:25; 204:9,11;212:19; 159:3,11;161:24 critical (15) 18:7;52:4;85:11; courses (2) 108:3;110:21 113:22;119:18;190:2; 191:2;272:20;273:16; cousin (1) 256:24 282:2;286:21;287:6; cover (9) 291:25;293:14; 65:14;110:5;111:2, 298:16 25;125:1;139:8; critically (1) 166:19;167:12;225:5 298:17 covered (1) criticism (1) 159:25 210:21 covering (2) critters (1) 44:22;109:20 231:1 covers (2) croaker (1) 65:13:109:21 273:7 crop (30) 208:6.8.21:265:16 72:8.9:82:17:110:6. cows(3)13:111:1:125:2: 11:2:211:3:259:14 126:25;140:9;161:3, cranberries (2) 15,18;194:19;195:3; 10:12:11:1 202:5;214:21;229:16; 231:17;244:3,4; cranberry (1) 255:6;264:17;277:5; 279:20;283:9;285:4, crash (2) 59:20:197:1 6,6;287:12;290:14 crashed (1) **crop-** (2) 197:18 283:4;287:10 cratering (1) crop-by-(1) 282:12 290:13 crawling (1) crop-by-crop (3) 199:18 284:24;285:1,3 Creamery (3) Cropp (2) 258:13,21,22 163:21;165:19 create (5) Cropp's (1) 42:24;184:1; 168:1 242:24;287:13;292:2 **crops** (20) 10:15:21:3:22:19: created (6) 102:23;136:22; 23:4;110:17;111:2; 145:8;156:1;200:9; 161:17;195:1,6; 242:12 225:21;228:25; 229:16,20;244:5; creates (1) 248:12 248:13;257:20;261:6; creating (9) 264:3;288:1;294:1 61:19;99:2;104:2; crop's (1) 106:14:145:17; 241:13 165:10:268:15: cross (1) 274:11;288:18 130:11 creative (2) Crosse (1)

95:25 crossed (1) 266:23 crossing (1) 300:19 crossroads (1) 145:2 Crotser (8) 160:14;163:18,20, 21:165:22:166:8; 167:14;168:8 crowd (1) 11:11 crush (1) 19:13 crushed (1) 181:22 Cruz (1) 276:10 **CST** (2) 6:3:302:2 cultivation (2) 215:17,18 culture (2) 11:15;86:5 cup (1) 147:23 Cups (1) 17:2 curb (2) 200:20;273:22 curious (14) 27:10:116:12: 133:6.11:153:13: 156:9,12;209:18; 210:24,25;211:5; 230:18;267:9;300:17 current (20) 8:12;26:12;28:15; 56:25:88:15:138:7; 169:11:184:20.21: 236:25;255:2,16,20; 256:1;263:25;264:1; 269:23;272:25;276:8; 292:1 Currently (12) 22:6;58:13;98:3; 138:6;162:8;163:13; 177:9,12;180:23; 181:2;218:12;269:25 curve (5) 59:1;61:15;64:10; 289:14,16 custom (3) 77:13;91:11;92:11 customer (1) 63:14 customs (33) 48:16,20;49:19; 55:13,17:56:3:57:24; 58:21,22;59:16;60:6, 17,18,22,24;61:5,7; 62:24,25;67:11;

- Vol. 3 April 29, 2024

68:13,15:69:10:76:9. 17.18.18:77:6.16: 91:17,19,24:92:2 cut (2) 180:17;253:2 cycle (4) 92:19;150:16,16; 151:14 cycles (2) 261:15,18 cylinders (1) 42:24 D dad (1) 122:13 dad's (1) 194:4 dairies (8) 212:2;258:23; 259:8,8,15;260:24; 261:1,24 dairy (12) 127:12;202:4; 207:3;208:11,12; 212:17;258:15,20; 260:12,14,18;262:11 Dairyland (2) 9:14:10:3 dairvmen (1) 262:24 Dakota (1) 300:25 dam (1) 234:22 damaged (1) 299:13 damaging (2) 231:12;273:1 Dame (1) 154:6 Damewood (9) 194:11;200:5; 206:21,23,23;209:22; 211:7;212:24;213:20 D'AMORE (20) 20:25,25;27:21; 39:2;40:25;93:9; 131:25;132:7,14; 167:9:168:7:187:6. 19;188:12;219:25; 220:14:235:19.23; 236:7;241:15 dam's (1) 234:22 dangerous (1) 255:17 data (50) 50:22;54:13,20; 55:24;56:7,25;57:9; 62:11;67:24;72:7; 79:9,24,24;83:1;

100:3;101:22;115:19; 268:21;274:1 116:4:162:13:192:21. dealers (1) 22:193:11:224:19.20: 257:18 225:23:227:5:229:3. dealing (5) 46:23;47:8;50:1; 4;230:18;232:12,14; 233:5;234:14;236:23; 76:20:254:21 254:19;255:24,25; dealings (1) 89:5 272:3:275:3:277:7. 11;278:13;279:9,11; dear (1) 280:8;282:6,16,18; 221:5 285:4,9 dearth (1) Database (21) 252:5 55:2.15:56:5:61:18. death (1) 23;66:2,7;68:23;72:4, 273:4 10;79:18;80:6,8,9,25; debate (4) 24:14,25;213:1; 82:9;87:1;161:5; 162:24;168:2,25 244:11 DATCP(1) debated (1) 12:11 141:20 date (7) debating (1) 98:7:111:4:164:13, 25:7 14.15.17.18 decades (1) daughter (1) 22:12 130:3 December (2) Dave (1) 10:23;299:8 97:23 decent (2) Davenport (1) 198:20;290:23 276:3 decide (1) David (7) 159:19 163:19:168:10; decided (7) 170:15:175:20.25; 44:16:122:8: 181:5:182:25 194:22:195:7:295:24: day (28) 298:10:299:8 12:22:14:11:24:13: decision (4) 25:2;171:17; 39:16:41:18:42:11; 239:11;265:5 61:9;76:20;90:8;97:4; decisionmaking (2) 115:25;142:9;144:6; 87:17;170:8 177:10:183:1:203:16: 212:16;217:12;220:7; decision-making (1) 221:9,12;230:4; 200:19 231:8,10;241:20; decisions (3) 246:6;253:11;265:21 58:19;73:12;124:11 days (18) deck (1) 28:19;30:8;58:3; 43:9 59:7,8;98:11;102:11; decline (1) 290:5 105:2;113:11;122:20; dedicated (3) 150:24,25;151:23; 189:10;198:16; 218:21;232:9;253:8, 9,10 280:16 day's (1) dedication (2) 118:17 183:7;228:14 day-to-day (2) deep (5) 170:8;238:7 74:4;176:6;177:8; **DC**(1) 243:10:293:2 299:11 deepen (1) 113:9 dead (1) 140:19 deeper (2) 100:25:239:21 deadlines (1) 190:17 deeply (1) deal (10) 29:11 89:15:124:6: **Defense** (4) 20:12;48:14;60:25; 131:23;217:6,9; 233:5;237:8;262:15; 63:21

deficiencies (1) 182:14 define (2) 102:18:142:23 defined (1) 102:13 **Defining** (1) 66:12 definitely (7) 42:1;97:20;153:18; 197:9;229:25;230:3; 285:5 definition (9) 146:8,21;171:9; 255:16,20;263:24; 264:1,9,10 definitions (2) 146:22;148:13 degradable (1) 274:17 degrade (2) 240:4.13 degrades (1) 273:12 degree (5) 8:18,20;22:10; 62:13;230:24 deliberating (1) 146:24 delist (1) 243:5 deliver (2) 40:13:107:14 deliverable (1) 239:8 deliverables (1) 109:10 delivered (1) 42:25 delivering (3) 40:17:188:1:267:19 delivery (3) 139:20;239:21; 273:12 Delta (1) 138:14 delving (1) 107:16 demand (12) 169:11;175:1; 184:12:235:8.9; 237:12:248:12.12: 250:5,5;274:17; 287:22 demanding (3) 144:8,10;230:4 democracy (1) 30:6 demographic (1) 88:18 demonstrable (1) 247:24 demonstrate (2)

292:2,13 demonstrates (2) 30:5:117:20 demonstrating (2) 71:17:115:4 demonstrations (1) 118:15 denial (1) 54:2 denied (2) 49:20,20 Denise (2) 119:8.22 Denmark (1) 154:4 denying (1) 254:17 **Department (9)** 7:6,22;8:13,14,17; 9:21;15:25;148:19; 269:15 depend (2) 210:9:299:3 dependent (1) 122:5 depending (4) 63:5;77:8;85:16; 150:17 depends (3) 55:21;242:8;285:3 deployment (1) 192:14 depression (1) 15:10 depth (1) 35:13 **Deputy** (4) 6:11;8:15;18:4; 28:21 **Des** (1) 195:8 descendants (2) 187:25;188:5 describe (2) 110:17;159:17 described (2) 211:1;282:12 describing (1) 262:12 deserts (1) 131:19 deserve (2) 87:6:201:8 deserves (1) 221:7 design (1) 277:16 designated (2) 6:19;300:16 designation (4) 299:4,5,22;300:21 designations (1) 27:21

- Vol. 3 April 29, 2024

designed (5) 45:3:69:3.4:75:8: 109:13 designer (1) 21:16 designing (1) 138:22 desirable (1) 195:12 desire (5) 22:17;196:17; 221:4,6:271:8 desired (1) 268:5 desk (1) 71:21 desperately (1) 42:16 despite (2) 221:24;288:6 detail (3) 37:7;65:23;247:20 detailed (3) 224:23;225:8;226:5 details (4) 41:1;58:15;107:23; 146:22 detect (1) 36:15 detected (2) 49:10,11 detecting (1) 153:15 deter (1) 36:15 determine (2) 54:6;111:8 determines (1) 239:8 determining (1) 257:25 deterrent (1) 92:8 devastated (1) 119:14 devastating (1) 29:3 devastation (1) 299:24 develop (8) 19:19:46:9:106:17; 141:12;241:2;255:8; 283:4;284:25 developed (4) 190:8;191:16; 255:4;274:8 developers (1) 298:9 developing (4) 107:2,4;115:2; 129:14 development (15)

Burke Court Reporting & Transcription (973) 692-0660

20:8;100:3;109:7;

110:11;117:12;126:6, 25:129:13:140:18: 196:13:209:13:213:6. 17:222:22:274:9 developmental (1) 236:14 developments (1) 150:1 devil's (1) 146:21 devote (1) 18:18 devoted (1) 21:7 dial (1) 198:4 dialogue (2) 216:25;221:15 dicamba (2) 124:11;138:15 dice (1) 217:21 dichotomy (1) 85:15 diet (2) Dill (1) 178:20;243:18 **Dietary (8)** 224:20;225:14,22; 227:15,20;228:7,20; 234:9 differ (2) 62:25:66:13 difference (8) 118:6:235:11: 242:6:252:14,25; 253:6;289:1,6 differences (2) 91:1;258:5 different (87) dips (1) 8:11:9:10:25:5.25; 28:16;32:5;37:14,16, dire (1) 17,20,20;39:24,25; 42:24;43:9;44:10; 50:21,21;51:15; 58:24;63:1,4,5;64:12; 66:13;68:25;69:22; 71:4,4;73:13;74:24; 75:1,6,14,25;78:5; 80:7;81:6,7;83:25; 84:25;85:1,1,2,8,12, 15,16;88:20,23;96:8; 104:25:122:9:130:4: 134:15,17;135:11; 148:6;150:2;155:21; 156:25;157:9;197:15; 205:2;210:8;211:5; 212:1;225:8,9; 230:23;236:21; 237:11;240:20; 254:13:258:5:262:22; 265:16;267:6,7; 278:23:279:21; 287:11,12,13,13;

289:19;290:4 differentiate (1) 242:2 differently (5) 30:12;39:22;40:20; 75:14:208:17 difficult (5) 53:19:100:15; 101:6,12;167:14 digested (1) 182:21 digestible (1) 42:25 digital (2) 213:7,11 dignity (1) 293:10 diligence (2) 97:20;115:13 Dilip (5) 19:22;137:4;138:4; 170:24;288:22 Dilip's (1) 174:15 221:13 diminishing (1) 180:14 **DIMITRI (8)** 21:9,10:93:22; 94:21:95:1:223:4; 279:16.19 dinner (2) 12:12:284:4 dinners (1) 126:16 dioxide (1) 251:8 59:5 254:3 direct (13) 21:24;44:12;47:15; 69:21;81:16;105:15; 113:21;114:3;162:24; 224:5;252:21;262:23; 272:20 directed (2) 176:3;246:23 direction (6) 43:11:79:4:237:11: 247:5;261:11,14 directly (4) 18:9;74:18;113:24; 262:17 **Director** (15) 17:11,13;30:14; 31:14;95:23,25; 98:13:108:24:123:13; 143:22:163:21:200:8: 220:20;281:21; 291:11

directors (4) 93:25:194:20: 214:3;246:16 direct-to-consumer (1) 294:10 disabilities (1) 88:12 disability (1) 88:17 disagree (3) 83:25;208:6;264:24 disallowed (2) 144:19:145:6 disbudding (2) 296:19,21 **Discarded** (1) 273:3 disclosure (2) 246:19;248:16 disconnect (5) 48:4:145:1:259:10, 16;277:21 discontent (1) 144:17 discouraging (2) 89:3;201:19 discover (1) 47:24 discovery (2) 150:9:294:2 discretion (3) 62:13:63:10:84:23 discuss (2) 164:5:239:18 discussed (1) 196:15 discussion (10) 145:18:165:13: 202:16;221:19;239:3, 5;276:17;281:4,9; 293:23 discussions (6) 29:25;102:9;129:6; 221:20;223:8;239:16 disease (2) 109:25;155:25 disintegrate (1) 240:4 disintegration (1) 152:5 displayed (2) 35:1;142:14 dispose (2) 157:8;242:18 disrupt (1) 31:23 disrupting (1) 31:21 disruptors (1) 162:3 disservice (1) 141:5 dissuade (1)

28:6 distilled (1) 271:20 distinguished (1) 147:7 distinguishing (1) 146:25 distribute (1) 75:16 distributed (2) 49:7;282:20 **Distributing** (1) 266:15 distribution (5) 51:10;64:3,12,20; 70:7 distributive (1) 52:12 distributors (1) 257:19 distrust (2) 32:8:207:22 dive (7) 74:4:104:8:176:6: 177:8;232:5;239:21; 243:10 diverse (15) 7:25;29:22;63:2; 87:13;96:7;104:21; 106:19:124:17; 204:23;206:4;221:1; 258:25:281:23.24: 293:1 diversified (1) 292:8 diversion (1) 272:21 diversity (11) 37:15;87:24;88:8, 16,21,23,24;202:12; 205:4:211:4:294:14 divided (3) 25:25;214:15;259:4 diving (1) 83:10 **Division** (2) 17:10;72:25 **DL**(1) 170:21 **DNA (1)** 231:12 doable (1) 226:7 docket (2) 221:16,21 doctor (1) 215:10 document (7) 39:4,6;46:10;256:2. 4:276:17:282:25 documentation (4) 193:6;201:1;248:7; 299:20

- Vol. 3 April 29, 2024

documented (2) 184:7;240:17 documents (10) 63:1:73:15:89:22: 165:14;171:19; 202:17;239:4;270:12; 276:18;279:4 dog (1) 119:13 dollar (1) 222:13 dollars (4) 91:21:186:10: 193:25;280:16 domestic (10) 51:4;110:12; 112:21;169:6;196:6, 13;199:10;254:3,9; 292:19 domestically (3) 89:4;91:2;174:24 done (36) 13:4,14;28:15; 30:21;33:25;71:18; 82:21;83:16;87:1; 89:19;95:12;103:23; 104:9;106:24;114:5; 126:25;128:25;135:9; 143:10;148:23;159:5; 187:1;196:11;197:1; 205:20;225:4;226:5; 227:8.12:233:15: 276:12:285:8:286:20: 289:8:290:19:296:13 door (6) 31:10;37:12;75:21; 169:5;172:3;268:21 doors (2) 6:23;25:8 doorstep (1) 301:5 dots (3) 12:22;13:16;30:18 doubts (1) 125:17 down (21) 12:9;37:8;42:12; 59:25;95:14;112:9; 119:20;146:3;153:12; 173:5;187:19;199:20; 211:9;230:23;233:10; 236:18;240:7;261:4; 266:5;275:14;288:11 downloadable (1) 38:14 downloading (1) 42:5 downstream (1) 181:7 downtown (1) 16:1 dozen (4) 17:1,1;91:11;

Min-U-Script®

Burke Court Reporting & Transcription (973) 692-0660

(14) developmental - dozen

				_
247:16	235:14	easiest (1)	effectively (5)	eliminating (1)
DPIA (1)	drug (2)	137:8	93:1,1;162:12;	159:3
269:13	273:12,13	easily (5)	170:7;190:20	Elizabeth (1)
DR (34)	dry (3)	73:10;148:7;	effects (1)	118:11
6:5;16:9;17:5;30:9,	10:12;197:14;	201:23;239:23;	296:15	eloquently (1)
11;40:24;43:9;69:13;	249:25	255:19	efficient (3)	30:5
73:24;74:21;76:16;	Ducks (1)	east (3)	170:5;195:18;	else (14)
77:15;79:13;84:4;	135:8	22:9;195:7,19	197:13	16:1;41:23;74:25;
86:25;87:18;89:8;	due (12)	eastern (1)	efficiently (1)	108:3;124:8;133:7;
91:3;93:19;94:10,24;	50:25;67:22;83:23;	21:19	195:19	152:11;155:22;
95:10;97:9;116:16;	98:1;115:12;195:24;	easy (8)	effort (4)	175:15;210:22;219:4;
216:18;233:15,15;	196:15;207:9,19;	25:9;139:20;224:5;	49:6;78:18;198:3;	253:3;268:14;280:1
239:5;279:9;294:23,	217:20;221:11;293:3	228:23;240:9;295:19,	267:4	else's (1)
25;297:9,12,20	dug (1)	23;296:15	efforts (11)	167:22
draft (2)	187:22	eat (6)	26:12;27:12;	elsewhere (1)
23:17;202:7	dumped (1)	10:14;123:22;	150:11;161:5;162:14;	26:2
drafting (2)	267:24	126:13;178:2,11;	190:18;196:14;	email (2)
41:10,11	during (19)	209:4	228:24;230:20;	119:11,14
drag (1)	9:7;24:9,12;27:15;	eaters (2)	260:25;293:10	emails (3)
124:22	44:16;80:24;90:12,	109:2;215:25	egg (7)	47:15;53:25;61:21
dramatically (1)	20;109:14;117:15;	eating (2)	90:23;91:4,9;	embarked (1)
180:25	139:3;142:16;200:15;	227:19;230:15	176:17,18;177:5;	118:11
drastically (1)	205:14;254:2;256:12;	echo (3)	179:1	embed (1)
273:23	257:19;264:5;287:1	111:21;221:12;	eggs (1)	202:16
draw (1)	dynamic (1)	287:5	178:7	Embossing (1)
244:25	209:18	eclipsing (1)	eight (7)	147:24
drawn (1)	dynamics (3)	291:14	106:24;109:20;	embrace (1)
244:22	211:2,21;285:23	ecological (1)	153:11;205:19;231:9;	85:14
dream (2)	211.2,21,200.20	123:17	238:16;263:14	emergency (2)
125:21;299:8	Ε	economic (3)	either (23)	6:23;145:7
dreamland (1)		8:7;162:4;208:11	33:9;35:5;36:20;	Emerging (2)
212:21	eager (1)	economist (2)	54:7;55:7;64:25;94:7;	64:1;100:25
dried (1)	278:22	21:11:94:7	160:6:164:21:179:10:	Emily (2)
dried (1) 177:20	278:22 earlier (12)	21:11;94:7 economy (4)	160:6;164:21;179:10; 191:4:192:19:223:24:	Emily (2) 18:5.10
177:20	earlier (12)	economy (4)	191:4;192:19;223:24;	18:5,10
	earlier (12) 103:24;120:11;	economy (4) 11:13,14,16;13:19	191:4;192:19;223:24; 252:22;255:7;266:1,	•
177:20 drift (1) 138:15	earlier (12) 103:24;120:11; 190:9;191:12,21;	economy (4)	191:4;192:19;223:24; 252:22;255:7;266:1, 7,9;268:13;284:18;	18:5,10 emissions (3)
177:20 drift (1)	earlier (12) 103:24;120:11;	economy (4) 11:13,14,16;13:19 ecosystem (3)	191:4;192:19;223:24; 252:22;255:7;266:1, 7,9;268:13;284:18; 290:9;296:6,9	18:5,10 emissions (3) 145:10;269:10; 273:22
177:20 drift (1) 138:15 drill (1)	earlier (12) 103:24;120:11; 190:9;191:12,21; 211:1;215:3;216:17;	economy (4) 11:13,14,16;13:19 ecosystem (3) 112:17;239:12;	191:4;192:19;223:24; 252:22;255:7;266:1, 7,9;268:13;284:18;	18:5,10 emissions (3) 145:10;269:10;
177:20 drift (1) 138:15 drill (1) 90:14	earlier (12) 103:24;120:11; 190:9;191:12,21; 211:1;215:3;216:17; 218:16;219:16;240:3; 248:5 early (18)	economy (4) 11:13,14,16;13:19 ecosystem (3) 112:17;239:12; 242:8	191:4;192:19;223:24; 252:22;255:7;266:1, 7,9;268:13;284:18; 290:9;296:6,9 Ela (11)	18:5,10 emissions (3) 145:10;269:10; 273:22 emphasis (2)
177:20 drift (1) 138:15 drill (1) 90:14 drink (2) 69:8,11	earlier (12) 103:24;120:11; 190:9;191:12,21; 211:1;215:3;216:17; 218:16;219:16;240:3; 248:5 early (18)	economy (4) 11:13,14,16;13:19 ecosystem (3) 112:17;239:12; 242:8 edges (1)	191:4;192:19;223:24; 252:22;255:7;266:1, 7,9;268:13;284:18; 290:9;296:6,9 Ela (11) 238:17,23,23; 241:9,11,18;242:3;	18:5,10 emissions (3) 145:10;269:10; 273:22 emphasis (2) 49:3;266:10
177:20 drift (1) 138:15 drill (1) 90:14 drink (2)	earlier (12) 103:24;120:11; 190:9;191:12,21; 211:1;215:3;216:17; 218:16;219:16;240:3; 248:5	economy (4) 11:13,14,16;13:19 ecosystem (3) 112:17;239:12; 242:8 edges (1) 212:11	191:4;192:19;223:24; 252:22;255:7;266:1, 7,9;268:13;284:18; 290:9;296:6,9 Ela (11) 238:17,23,23;	18:5,10 emissions (3) 145:10;269:10; 273:22 emphasis (2) 49:3;266:10 emphasize (4)
177:20 drift (1) 138:15 drill (1) 90:14 drink (2) 69:8,11 drinking (2)	earlier (12) 103:24;120:11; 190:9;191:12,21; 211:1;215:3;216:17; 218:16;219:16;240:3; 248:5 early (18) 27:15;44:12;49:18;	economy (4) 11:13,14,16;13:19 ecosystem (3) 112:17;239:12; 242:8 edges (1) 212:11 educate (12)	191:4;192:19;223:24; 252:22;255:7;266:1, 7,9;268:13;284:18; 290:9;296:6,9 Ela (11) 238:17,23,23; 241:9,11,18;242:3; 243:8;244:20;245:19;	18:5,10 emissions (3) 145:10;269:10; 273:22 emphasis (2) 49:3;266:10 emphasize (4) 69:16;83:18;84:14;
177:20 drift (1) 138:15 drill (1) 90:14 drink (2) 69:8,11 drinking (2) 158:6,13 Driscoll (1) 39:7	earlier (12) 103:24;120:11; 190:9;191:12,21; 211:1;215:3;216:17; 218:16;219:16;240:3; 248:5 early (18) 27:15;44:12;49:18; 51:19;68:9;71:17;	economy (4) 11:13,14,16;13:19 ecosystem (3) 112:17;239:12; 242:8 edges (1) 212:11 educate (12) 12:14;30:20,25;	191:4;192:19;223:24; 252:22;255:7;266:1, 7,9;268:13;284:18; 290:9;296:6,9 Ela (11) 238:17,23,23; 241:9,11,18;242:3; 243:8;244:20;245:19; 246:1	18:5,10 emissions (3) 145:10;269:10; 273:22 emphasis (2) 49:3;266:10 emphasize (4) 69:16;83:18;84:14; 211:23
177:20 drift (1) 138:15 drill (1) 90:14 drink (2) 69:8,11 drinking (2) 158:6,13 Driscoll (1) 39:7 drive (3)	earlier (12) 103:24;120:11; 190:9;191:12,21; 211:1;215:3;216:17; 218:16;219:16;240:3; 248:5 early (18) 27:15;44:12;49:18; 51:19;68:9;71:17; 78:22;90:22;110:19;	economy (4) 11:13,14,16;13:19 ecosystem (3) 112:17;239:12; 242:8 edges (1) 212:11 educate (12) 12:14;30:20,25; 33:14;34:17;35:7; 67:23;130:7;136:18; 222:3;260:4;300:6	191:4;192:19;223:24; 252:22;255:7;266:1, 7,9;268:13;284:18; 290:9;296:6,9 Ela (11) 238:17,23,23; 241:9,11,18;242:3; 243:8;244:20;245:19; 246:1 elaborate (1)	18:5,10 emissions (3) 145:10;269:10; 273:22 emphasis (2) 49:3;266:10 emphasize (4) 69:16;83:18;84:14; 211:23 emphasizing (1) 67:17 Employee (4)
177:20 drift (1) 138:15 drill (1) 90:14 drink (2) 69:8,11 drinking (2) 158:6,13 Driscoll (1) 39:7 drive (3) 21:25;175:14;	earlier (12) 103:24;120:11; 190:9;191:12,21; 211:1;215:3;216:17; 218:16;219:16;240:3; 248:5 early (18) 27:15;44:12;49:18; 51:19;68:9;71:17; 78:22;90:22;110:19; 124:4;144:25;160:22; 195:8;216:18,23; 229:9;291:21;298:20	economy (4) 11:13,14,16;13:19 ecosystem (3) 112:17;239:12; 242:8 edges (1) 212:11 educate (12) 12:14;30:20,25; 33:14;34:17;35:7; 67:23;130:7;136:18; 222:3;260:4;300:6 educated (1)	191:4;192:19;223:24; 252:22;255:7;266:1, 7,9;268:13;284:18; 290:9;296:6,9 Ela (11) 238:17,23,23; 241:9,11,18;242:3; 243:8;244:20;245:19; 246:1 elaborate (1) 147:21 elated (1) 41:18	18:5,10 emissions (3) 145:10;269:10; 273:22 emphasis (2) 49:3;266:10 emphasize (4) 69:16;83:18;84:14; 211:23 emphasizing (1) 67:17 Employee (4) 72:18,21,24;77:3
177:20 drift (1) 138:15 drill (1) 90:14 drink (2) 69:8,11 drinking (2) 158:6,13 Driscoll (1) 39:7 drive (3) 21:25;175:14; 176:11	earlier (12) 103:24;120:11; 190:9;191:12,21; 211:1;215:3;216:17; 218:16;219:16;240:3; 248:5 early (18) 27:15;44:12;49:18; 51:19;68:9;71:17; 78:22;90:22;110:19; 124:4;144:25;160:22; 195:8;216:18,23; 229:9;291:21;298:20 earn (2)	economy (4) 11:13,14,16;13:19 ecosystem (3) 112:17;239:12; 242:8 edges (1) 212:11 educate (12) 12:14;30:20,25; 33:14;34:17;35:7; 67:23;130:7;136:18; 222:3;260:4;300:6 educated (1) 214:19	191:4;192:19;223:24; 252:22;255:7;266:1, 7,9;268:13;284:18; 290:9;296:6,9 Ela (11) 238:17,23,23; 241:9,11,18;242:3; 243:8;244:20;245:19; 246:1 elaborate (1) 147:21 elated (1) 41:18 Elder (1)	18:5,10 emissions (3) 145:10;269:10; 273:22 emphasis (2) 49:3;266:10 emphasize (4) 69:16;83:18;84:14; 211:23 emphasizing (1) 67:17 Employee (4) 72:18,21,24;77:3 employees (2)
177:20 drift (1) 138:15 drill (1) 90:14 drink (2) 69:8,11 drinking (2) 158:6,13 Driscoll (1) 39:7 drive (3) 21:25;175:14; 176:11 driven (4)	earlier (12) 103:24;120:11; 190:9;191:12,21; 211:1;215:3;216:17; 218:16;219:16;240:3; 248:5 early (18) 27:15;44:12;49:18; 51:19;68:9;71:17; 78:22;90:22;110:19; 124:4;144:25;160:22; 195:8;216:18,23; 229:9;291:21;298:20 earn (2) 38:19,20	economy (4) 11:13,14,16;13:19 ecosystem (3) 112:17;239:12; 242:8 edges (1) 212:11 educate (12) 12:14;30:20,25; 33:14;34:17;35:7; 67:23;130:7;136:18; 222:3;260:4;300:6 educated (1) 214:19 educating (5)	191:4;192:19;223:24; 252:22;255:7;266:1, 7,9;268:13;284:18; 290:9;296:6,9 Ela (11) 238:17,23,23; 241:9,11,18;242:3; 243:8;244:20;245:19; 246:1 elaborate (1) 147:21 elated (1) 41:18 Elder (1) 264:16	18:5,10 emissions (3) 145:10;269:10; 273:22 emphasis (2) 49:3;266:10 emphasize (4) 69:16;83:18;84:14; 211:23 emphasizing (1) 67:17 Employee (4) 72:18,21,24;77:3 employees (2) 77:14,15
177:20 drift (1) 138:15 drill (1) 90:14 drink (2) 69:8,11 drinking (2) 158:6,13 Driscoll (1) 39:7 drive (3) 21:25;175:14; 176:11 driven (4) 190:21;225:16;	earlier (12) 103:24;120:11; 190:9;191:12,21; 211:1;215:3;216:17; 218:16;219:16;240:3; 248:5 early (18) 27:15;44:12;49:18; 51:19;68:9;71:17; 78:22;90:22;110:19; 124:4;144:25;160:22; 195:8;216:18,23; 229:9;291:21;298:20 earn (2) 38:19,20 earned (1)	economy (4) 11:13,14,16;13:19 ecosystem (3) 112:17;239:12; 242:8 edges (1) 212:11 educate (12) 12:14;30:20,25; 33:14;34:17;35:7; 67:23;130:7;136:18; 222:3;260:4;300:6 educated (1) 214:19 educating (5) 123:17;125:16;	191:4;192:19;223:24; 252:22;255:7;266:1, 7,9;268:13;284:18; 290:9;296:6,9 Ela (11) 238:17,23,23; 241:9,11,18;242:3; 243:8;244:20;245:19; 246:1 elaborate (1) 147:21 elated (1) 41:18 Elder (1) 264:16 electronic (13)	18:5,10 emissions (3) 145:10;269:10; 273:22 emphasis (2) 49:3;266:10 emphasize (4) 69:16;83:18;84:14; 211:23 emphasizing (1) 67:17 Employee (4) 72:18,21,24;77:3 employees (2) 77:14,15 employing (1)
177:20 drift (1) 138:15 drill (1) 90:14 drink (2) 69:8,11 drinking (2) 158:6,13 Driscoll (1) 39:7 drive (3) 21:25;175:14; 176:11 driven (4) 190:21;225:16; 230:14;236:17	earlier (12) 103:24;120:11; 190:9;191:12,21; 211:1;215:3;216:17; 218:16;219:16;240:3; 248:5 early (18) 27:15;44:12;49:18; 51:19;68:9;71:17; 78:22;90:22;110:19; 124:4;144:25;160:22; 195:8;216:18,23; 229:9;291:21;298:20 earn (2) 38:19,20 earned (1) 8:18	economy (4) 11:13,14,16;13:19 ecosystem (3) 112:17;239:12; 242:8 edges (1) 212:11 educate (12) 12:14;30:20,25; 33:14;34:17;35:7; 67:23;130:7;136:18; 222:3;260:4;300:6 educated (1) 214:19 educating (5) 123:17;125:16; 138:11;208:2;213:4	191:4;192:19;223:24; 252:22;255:7;266:1, 7,9;268:13;284:18; 290:9;296:6,9 Ela (11) 238:17,23,23; 241:9,11,18;242:3; 243:8;244:20;245:19; 246:1 elaborate (1) 147:21 elated (1) 41:18 Elder (1) 264:16 electronic (13) 45:14;46:8,13;	18:5,10 emissions (3) 145:10;269:10; 273:22 emphasis (2) 49:3;266:10 emphasize (4) 69:16;83:18;84:14; 211:23 emphasizing (1) 67:17 Employee (4) 72:18,21,24;77:3 employees (2) 77:14,15 employing (1) 265:21
177:20 drift (1) 138:15 drill (1) 90:14 drink (2) 69:8,11 drinking (2) 158:6,13 Driscoll (1) 39:7 drive (3) 21:25;175:14; 176:11 driven (4) 190:21;225:16; 230:14;236:17 driver (1)	earlier (12) 103:24;120:11; 190:9;191:12,21; 211:1;215:3;216:17; 218:16;219:16;240:3; 248:5 early (18) 27:15;44:12;49:18; 51:19;68:9;71:17; 78:22;90:22;110:19; 124:4;144:25;160:22; 195:8;216:18,23; 229:9;291:21;298:20 earn (2) 38:19,20 earned (1) 8:18 earnest (1)	economy (4) 11:13,14,16;13:19 ecosystem (3) 112:17;239:12; 242:8 edges (1) 212:11 educate (12) 12:14;30:20,25; 33:14;34:17;35:7; 67:23;130:7;136:18; 222:3;260:4;300:6 educated (1) 214:19 educating (5) 123:17;125:16; 138:11;208:2;213:4 education (12)	191:4;192:19;223:24; 252:22;255:7;266:1, 7,9;268:13;284:18; 290:9;296:6,9 Ela (11) 238:17,23,23; 241:9,11,18;242:3; 243:8;244:20;245:19; 246:1 elaborate (1) 147:21 elated (1) 41:18 Elder (1) 264:16 electronic (13) 45:14;46:8,13; 49:17,24;56:7;60:12;	18:5,10 emissions (3) 145:10;269:10; 273:22 emphasis (2) 49:3;266:10 emphasize (4) 69:16;83:18;84:14; 211:23 emphasizing (1) 67:17 Employee (4) 72:18,21,24;77:3 employees (2) 77:14,15 employing (1) 265:21 employs (1)
177:20 drift (1) 138:15 drill (1) 90:14 drink (2) 69:8,11 drinking (2) 158:6,13 Driscoll (1) 39:7 drive (3) 21:25;175:14; 176:11 driven (4) 190:21;225:16; 230:14;236:17 driver (1) 73:3	earlier (12) 103:24;120:11; 190:9;191:12,21; 211:1;215:3;216:17; 218:16;219:16;240:3; 248:5 early (18) 27:15;44:12;49:18; 51:19;68:9;71:17; 78:22;90:22;110:19; 124:4;144:25;160:22; 195:8;216:18,23; 229:9;291:21;298:20 earn (2) 38:19,20 earned (1) 8:18 earnest (1) 109:18	economy (4) 11:13,14,16;13:19 ecosystem (3) 112:17;239:12; 242:8 edges (1) 212:11 educate (12) 12:14;30:20,25; 33:14;34:17;35:7; 67:23;130:7;136:18; 222:3;260:4;300:6 educated (1) 214:19 educating (5) 123:17;125:16; 138:11;208:2;213:4 education (12) 21:24;105:2;109:2,	191:4;192:19;223:24; 252:22;255:7;266:1, 7,9;268:13;284:18; 290:9;296:6,9 Ela (11) 238:17,23,23; 241:9,11,18;242:3; 243:8;244:20;245:19; 246:1 elaborate (1) 147:21 elated (1) 41:18 Elder (1) 264:16 electronic (13) 45:14;46:8,13; 49:17,24;56:7;60:12; 62:3,9,11,20;63:20;	18:5,10 emissions (3) 145:10;269:10; 273:22 emphasis (2) 49:3;266:10 emphasize (4) 69:16;83:18;84:14; 211:23 emphasizing (1) 67:17 Employee (4) 72:18,21,24;77:3 employees (2) 77:14,15 employing (1) 265:21 employs (1) 269:7
177:20 drift (1) 138:15 drill (1) 90:14 drink (2) 69:8,11 drinking (2) 158:6,13 Driscoll (1) 39:7 drive (3) 21:25;175:14; 176:11 driven (4) 190:21;225:16; 230:14;236:17 driver (1) 73:3 drivers (1)	earlier (12) 103:24;120:11; 190:9;191:12,21; 211:1;215:3;216:17; 218:16;219:16;240:3; 248:5 early (18) 27:15;44:12;49:18; 51:19;68:9;71:17; 78:22;90:22;110:19; 124:4;144:25;160:22; 195:8;216:18,23; 229:9;291:21;298:20 earn (2) 38:19,20 earned (1) 8:18 earnest (1) 109:18 ears (3)	economy (4) 11:13,14,16;13:19 ecosystem (3) 112:17;239:12; 242:8 edges (1) 212:11 educate (12) 12:14;30:20,25; 33:14;34:17;35:7; 67:23;130:7;136:18; 222:3;260:4;300:6 educated (1) 214:19 educating (5) 123:17;125:16; 138:11;208:2;213:4 education (12) 21:24;105:2;109:2, 4;113:22;114:8;	191:4;192:19;223:24; 252:22;255:7;266:1, 7,9;268:13;284:18; 290:9;296:6,9 Ela (11) 238:17,23,23; 241:9,11,18;242:3; 243:8;244:20;245:19; 246:1 elaborate (1) 147:21 elated (1) 41:18 Elder (1) 264:16 electronic (13) 45:14;46:8,13; 49:17,24;56:7;60:12; 62:3,9,11,20;63:20; 69:2	18:5,10 emissions (3) 145:10;269:10; 273:22 emphasis (2) 49:3;266:10 emphasize (4) 69:16;83:18;84:14; 211:23 emphasizing (1) 67:17 Employee (4) 72:18,21,24;77:3 employees (2) 77:14,15 employing (1) 265:21 employs (1) 269:7 empowered (1)
177:20 drift (1) 138:15 drill (1) 90:14 drink (2) 69:8,11 drinking (2) 158:6,13 Driscoll (1) 39:7 drive (3) 21:25;175:14; 176:11 driven (4) 190:21;225:16; 230:14;236:17 driver (1) 73:3 drivers (1) 236:21	earlier (12) 103:24;120:11; 190:9;191:12,21; 211:1;215:3;216:17; 218:16;219:16;240:3; 248:5 early (18) 27:15;44:12;49:18; 51:19;68:9;71:17; 78:22;90:22;110:19; 124:4;144:25;160:22; 195:8;216:18,23; 229:9;291:21;298:20 earn (2) 38:19,20 earned (1) 8:18 earnest (1) 109:18 ears (3) 9:2;136:22;181:9	economy (4) 11:13,14,16;13:19 ecosystem (3) 112:17;239:12; 242:8 edges (1) 212:11 educate (12) 12:14;30:20,25; 33:14;34:17;35:7; 67:23;130:7;136:18; 222:3;260:4;300:6 educated (1) 214:19 educating (5) 123:17;125:16; 138:11;208:2;213:4 education (12) 21:24;105:2;109:2, 4;113:22;114:8; 138:10;186:10;204:9;	191:4;192:19;223:24; 252:22;255:7;266:1, 7,9;268:13;284:18; 290:9;296:6,9 Ela (11) 238:17,23,23; 241:9,11,18;242:3; 243:8;244:20;245:19; 246:1 elaborate (1) 147:21 elated (1) 41:18 Elder (1) 264:16 electronic (13) 45:14;46:8,13; 49:17,24;56:7;60:12; 62:3,9,11,20;63:20; 69:2 element (1)	18:5,10 emissions (3) 145:10;269:10; 273:22 emphasis (2) 49:3;266:10 emphasize (4) 69:16;83:18;84:14; 211:23 emphasizing (1) 67:17 Employee (4) 72:18,21,24;77:3 employees (2) 77:14,15 employing (1) 265:21 employs (1) 269:7 empowered (1) 125:13
177:20 drift (1) 138:15 drill (1) 90:14 drink (2) 69:8,11 drinking (2) 158:6,13 Driscoll (1) 39:7 drive (3) 21:25;175:14; 176:11 driven (4) 190:21;225:16; 230:14;236:17 driver (1) 73:3 drivers (1) 236:21 driving (2)	earlier (12) 103:24;120:11; 190:9;191:12,21; 211:1;215:3;216:17; 218:16;219:16;240:3; 248:5 early (18) 27:15;44:12;49:18; 51:19;68:9;71:17; 78:22;90:22;110:19; 124:4;144:25;160:22; 195:8;216:18,23; 229:9;291:21;298:20 earn (2) 38:19,20 earned (1) 8:18 earnest (1) 109:18 ears (3) 9:2;136:22;181:9 Earth (3)	economy (4) 11:13,14,16;13:19 ecosystem (3) 112:17;239:12; 242:8 edges (1) 212:11 educate (12) 12:14;30:20,25; 33:14;34:17;35:7; 67:23;130:7;136:18; 222:3;260:4;300:6 educated (1) 214:19 educating (5) 123:17;125:16; 138:11;208:2;213:4 education (12) 21:24;105:2;109:2, 4;113:22;114:8; 138:10;186:10;204:9; 210:5,14;211:8	191:4;192:19;223:24; 252:22;255:7;266:1, 7,9;268:13;284:18; 290:9;296:6,9 Ela (11) 238:17,23,23; 241:9,11,18;242:3; 243:8;244:20;245:19; 246:1 elaborate (1) 147:21 elated (1) 41:18 Elder (1) 264:16 electronic (13) 45:14;46:8,13; 49:17,24;56:7;60:12; 62:3,9,11,20;63:20; 69:2 element (1) 90:15	18:5,10 emissions (3) 145:10;269:10; 273:22 emphasis (2) 49:3;266:10 emphasize (4) 69:16;83:18;84:14; 211:23 emphasizing (1) 67:17 Employee (4) 72:18,21,24;77:3 employees (2) 77:14,15 employing (1) 265:21 employs (1) 269:7 empowered (1) 125:13 empty (2)
177:20 drift (1) 138:15 drill (1) 90:14 drink (2) 69:8,11 drinking (2) 158:6,13 Driscoll (1) 39:7 drive (3) 21:25;175:14; 176:11 driven (4) 190:21;225:16; 230:14;236:17 driver (1) 73:3 drivers (1) 236:21 driving (2) 227:18;272:22	earlier (12) 103:24;120:11; 190:9;191:12,21; 211:1;215:3;216:17; 218:16;219:16;240:3; 248:5 early (18) 27:15;44:12;49:18; 51:19;68:9;71:17; 78:22;90:22;110:19; 124:4;144:25;160:22; 195:8;216:18,23; 229:9;291:21;298:20 earn (2) 38:19,20 earned (1) 8:18 earnest (1) 109:18 ears (3) 9:2;136:22;181:9 Earth (3) 21:22;144:6;150:2	economy (4) 11:13,14,16;13:19 ecosystem (3) 112:17;239:12; 242:8 edges (1) 212:11 educate (12) 12:14;30:20,25; 33:14;34:17;35:7; 67:23;130:7;136:18; 222:3;260:4;300:6 educated (1) 214:19 educating (5) 123:17;125:16; 138:11;208:2;213:4 education (12) 21:24;105:2;109:2, 4;113:22;114:8; 138:10;186:10;204:9; 210:5,14;211:8 educational (2)	191:4;192:19;223:24; 252:22;255:7;266:1, 7,9;268:13;284:18; 290:9;296:6,9 Ela (11) 238:17,23,23; 241:9,11,18;242:3; 243:8;244:20;245:19; 246:1 elaborate (1) 147:21 elated (1) 41:18 Elder (1) 264:16 electronic (13) 45:14;46:8,13; 49:17,24;56:7;60:12; 62:3,9,11,20;63:20; 69:2 element (1) 90:15 elements (3)	18:5,10 emissions (3) 145:10;269:10; 273:22 emphasis (2) 49:3;266:10 emphasize (4) 69:16;83:18;84:14; 211:23 emphasizing (1) 67:17 Employee (4) 72:18,21,24;77:3 employees (2) 77:14,15 employing (1) 265:21 employs (1) 269:7 empowered (1) 125:13 empty (2) 6:7;169:2
177:20 drift (1) 138:15 drill (1) 90:14 drink (2) 69:8,11 drinking (2) 158:6,13 Driscoll (1) 39:7 drive (3) 21:25;175:14; 176:11 driven (4) 190:21;225:16; 230:14;236:17 driver (1) 73:3 drivers (1) 236:21 driving (2) 227:18;272:22 dropped (1)	earlier (12) 103:24;120:11; 190:9;191:12,21; 211:1;215:3;216:17; 218:16;219:16;240:3; 248:5 early (18) 27:15;44:12;49:18; 51:19;68:9;71:17; 78:22;90:22;110:19; 124:4;144:25;160:22; 195:8;216:18,23; 229:9;291:21;298:20 earn (2) 38:19,20 earned (1) 8:18 earnest (1) 109:18 ears (3) 9:2;136:22;181:9 Earth (3) 21:22;144:6;150:2 earthworms (2)	economy (4) 11:13,14,16;13:19 ecosystem (3) 112:17;239:12; 242:8 edges (1) 212:11 educate (12) 12:14;30:20,25; 33:14;34:17;35:7; 67:23;130:7;136:18; 222:3;260:4;300:6 educated (1) 214:19 educating (5) 123:17;125:16; 138:11;208:2;213:4 education (12) 21:24;105:2;109:2, 4;113:22;114:8; 138:10;186:10;204:9; 210:5,14;211:8 educational (2) 110:12;260:6	191:4;192:19;223:24; 252:22;255:7;266:1, 7,9;268:13;284:18; 290:9;296:6,9 Ela (11) 238:17,23,23; 241:9,11,18;242:3; 243:8;244:20;245:19; 246:1 elaborate (1) 147:21 elated (1) 41:18 Elder (1) 264:16 electronic (13) 45:14;46:8,13; 49:17,24;56:7;60:12; 62:3,9,11,20;63:20; 69:2 element (1) 90:15 elements (3) 30:23;46:21;72:13	18:5,10 emissions (3) 145:10;269:10; 273:22 emphasis (2) 49:3;266:10 emphasize (4) 69:16;83:18;84:14; 211:23 emphasizing (1) 67:17 Employee (4) 72:18,21,24;77:3 employees (2) 77:14,15 employing (1) 265:21 employs (1) 269:7 empowered (1) 125:13 empty (2) 6:7;169:2 encapsulated (2)
177:20 drift (1) 138:15 drill (1) 90:14 drink (2) 69:8,11 drinking (2) 158:6,13 Driscoll (1) 39:7 drive (3) 21:25;175:14; 176:11 driven (4) 190:21;225:16; 230:14;236:17 driver (1) 73:3 drivers (1) 236:21 driving (2) 227:18;272:22 dropped (1) 154:8	earlier (12) 103:24;120:11; 190:9;191:12,21; 211:1;215:3;216:17; 218:16;219:16;240:3; 248:5 early (18) 27:15;44:12;49:18; 51:19;68:9;71:17; 78:22;90:22;110:19; 124:4;144:25;160:22; 195:8;216:18,23; 229:9;291:21;298:20 earn (2) 38:19,20 earned (1) 8:18 earnest (1) 109:18 ears (3) 9:2;136:22;181:9 Earth (3) 21:22;144:6;150:2 earthworms (2) 183:10;187:22	economy (4) 11:13,14,16;13:19 ecosystem (3) 112:17;239:12; 242:8 edges (1) 212:11 educate (12) 12:14;30:20,25; 33:14;34:17;35:7; 67:23;130:7;136:18; 222:3;260:4;300:6 educated (1) 214:19 educating (5) 123:17;125:16; 138:11;208:2;213:4 education (12) 21:24;105:2;109:2, 4;113:22;114:8; 138:10;186:10;204:9; 210:5,14;211:8 educational (2) 110:12;260:6 effect (1)	191:4;192:19;223:24; 252:22;255:7;266:1, 7,9;268:13;284:18; 290:9;296:6,9 Ela (11) 238:17,23,23; 241:9,11,18;242:3; 243:8;244:20;245:19; 246:1 elaborate (1) 147:21 elated (1) 41:18 Elder (1) 264:16 electronic (13) 45:14;46:8,13; 49:17,24;56:7;60:12; 62:3,9,11,20;63:20; 69:2 element (1) 90:15 elements (3) 30:23;46:21;72:13 elevator (4)	18:5,10 emissions (3) 145:10;269:10; 273:22 emphasis (2) 49:3;266:10 emphasize (4) 69:16;83:18;84:14; 211:23 emphasizing (1) 67:17 Employee (4) 72:18,21,24;77:3 employees (2) 77:14,15 employing (1) 265:21 employs (1) 269:7 empowered (1) 125:13 empty (2) 6:7;169:2 encapsulated (2) 169:18;171:24
177:20 drift (1) 138:15 drill (1) 90:14 drink (2) 69:8,11 drinking (2) 158:6,13 Driscoll (1) 39:7 drive (3) 21:25;175:14; 176:11 driven (4) 190:21;225:16; 230:14;236:17 driver (1) 73:3 drivers (1) 236:21 driving (2) 227:18;272:22 dropped (1) 154:8 dropping (2)	earlier (12) 103:24;120:11; 190:9;191:12,21; 211:1;215:3;216:17; 218:16;219:16;240:3; 248:5 early (18) 27:15;44:12;49:18; 51:19;68:9;71:17; 78:22;90:22;110:19; 124:4;144:25;160:22; 195:8;216:18,23; 229:9;291:21;298:20 earn (2) 38:19,20 earned (1) 8:18 earnest (1) 109:18 ears (3) 9:2;136:22;181:9 Earth (3) 21:22;144:6;150:2 earthworms (2) 183:10;187:22 easements (3)	economy (4) 11:13,14,16;13:19 ecosystem (3) 112:17;239:12; 242:8 edges (1) 212:11 educate (12) 12:14;30:20,25; 33:14;34:17;35:7; 67:23;130:7;136:18; 222:3;260:4;300:6 educated (1) 214:19 educating (5) 123:17;125:16; 138:11;208:2;213:4 education (12) 21:24;105:2;109:2, 4;113:22;114:8; 138:10;186:10;204:9; 210:5,14;211:8 educational (2) 110:12;260:6 effect (1) 206:15	191:4;192:19;223:24; 252:22;255:7;266:1, 7,9;268:13;284:18; 290:9;296:6,9 Ela (11) 238:17,23,23; 241:9,11,18;242:3; 243:8;244:20;245:19; 246:1 elaborate (1) 147:21 elated (1) 41:18 Elder (1) 264:16 electronic (13) 45:14;46:8,13; 49:17,24;56:7;60:12; 62:3,9,11,20;63:20; 69:2 element (1) 90:15 elements (3) 30:23;46:21;72:13 elevator (4) 195:6,7;197:1,10	18:5,10 emissions (3) 145:10;269:10; 273:22 emphasis (2) 49:3;266:10 emphasize (4) 69:16;83:18;84:14; 211:23 emphasizing (1) 67:17 Employee (4) 72:18,21,24;77:3 employees (2) 77:14,15 employing (1) 265:21 employs (1) 269:7 empowered (1) 125:13 empty (2) 6:7;169:2 encapsulated (2) 169:18;171:24 encompass (1)
177:20 drift (1) 138:15 drill (1) 90:14 drink (2) 69:8,11 drinking (2) 158:6,13 Driscoll (1) 39:7 drive (3) 21:25;175:14; 176:11 driven (4) 190:21;225:16; 230:14;236:17 driver (1) 73:3 drivers (1) 236:21 driving (2) 227:18;272:22 dropped (1) 154:8 dropping (2) 153:14;286:24	earlier (12) 103:24;120:11; 190:9;191:12,21; 211:1;215:3;216:17; 218:16;219:16;240:3; 248:5 early (18) 27:15;44:12;49:18; 51:19;68:9;71:17; 78:22;90:22;110:19; 124:4;144:25;160:22; 195:8;216:18,23; 229:9;291:21;298:20 earn (2) 38:19,20 earned (1) 8:18 earnest (1) 109:18 ears (3) 9:2;136:22;181:9 Earth (3) 21:22;144:6;150:2 earhworms (2) 183:10;187:22 easements (3) 209:14,16;210:2	economy (4) 11:13,14,16;13:19 ecosystem (3) 112:17;239:12; 242:8 edges (1) 212:11 educate (12) 12:14;30:20,25; 33:14;34:17;35:7; 67:23;130:7;136:18; 222:3;260:4;300:6 educated (1) 214:19 educating (5) 123:17;125:16; 138:11;208:2;213:4 education (12) 21:24;105:2;109:2, 4;113:22;114:8; 138:10;186:10;204:9; 210:5,14;211:8 educational (2) 110:12;260:6 effect (1) 206:15 effective (6)	191:4;192:19;223:24; 252:22;255:7;266:1, 7,9;268:13;284:18; 290:9;296:6,9 Ela (11) 238:17,23,23; 241:9,11,18;242:3; 243:8;244:20;245:19; 246:1 elaborate (1) 147:21 elated (1) 41:18 Elder (1) 264:16 electronic (13) 45:14;46:8,13; 49:17,24;56:7;60:12; 62:3,9,11,20;63:20; 69:2 element (1) 90:15 elements (3) 30:23;46:21;72:13 elevator (4) 195:6,7;197:1,10 eligible (2)	18:5,10 emissions (3) 145:10;269:10; 273:22 emphasis (2) 49:3;266:10 emphasize (4) 69:16;83:18;84:14; 211:23 emphasizing (1) 67:17 Employee (4) 72:18,21,24;77:3 employees (2) 77:14,15 employing (1) 265:21 employs (1) 265:7 empowered (1) 125:13 empty (2) 6:7;169:2 encapsulated (2) 169:18;171:24 encompass (1) 162:10
177:20 drift (1) 138:15 drill (1) 90:14 drink (2) 69:8,11 drinking (2) 158:6,13 Driscoll (1) 39:7 drive (3) 21:25;175:14; 176:11 driven (4) 190:21;225:16; 230:14;236:17 driver (1) 73:3 drivers (1) 236:21 driving (2) 227:18;272:22 dropped (1) 154:8 dropping (2) 153:14;286:24 drought (1)	earlier (12) 103:24;120:11; 190:9;191:12,21; 211:1;215:3;216:17; 218:16;219:16;240:3; 248:5 early (18) 27:15;44:12;49:18; 51:19;68:9;71:17; 78:22;90:22;110:19; 124:4;144:25;160:22; 195:8;216:18,23; 229:9;291:21;298:20 earn (2) 38:19,20 earned (1) 8:18 earnest (1) 109:18 ears (3) 9:2;136:22;181:9 Earth (3) 21:22;144:6;150:2 easements (3) 209:14,16;210:2 easier (3)	economy (4) 11:13,14,16;13:19 ecosystem (3) 112:17;239:12; 242:8 edges (1) 212:11 educate (12) 12:14;30:20,25; 33:14;34:17;35:7; 67:23;130:7;136:18; 222:3;260:4;300:6 educated (1) 214:19 educating (5) 123:17;125:16; 138:11;208:2;213:4 education (12) 21:24;105:2;109:2, 4;113:22;114:8; 138:10;186:10;204:9; 210:5,14;211:8 educational (2) 110:12;260:6 effect (1) 206:15 effective (6) 189:25;204:2;	191:4;192:19;223:24; 252:22;255:7;266:1, 7,9;268:13;284:18; 290:9;296:6,9 Ela (11) 238:17,23,23; 241:9,11,18;242:3; 243:8;244:20;245:19; 246:1 elaborate (1) 147:21 elated (1) 41:18 Elder (1) 264:16 electronic (13) 45:14;46:8,13; 49:17,24;56:7;60:12; 62:3,9,11,20;63:20; 69:2 element (1) 90:15 elements (3) 30:23;46:21;72:13 elevator (4) 195:6,7;197:1,10 eligible (2) 72:4;191:1	18:5,10 emissions (3) 145:10;269:10; 273:22 emphasis (2) 49:3;266:10 emphasize (4) 69:16;83:18;84:14; 211:23 emphasizing (1) 67:17 Employee (4) 72:18,21,24;77:3 employees (2) 77:14,15 employing (1) 265:21 employs (1) 269:7 empowered (1) 125:13 empty (2) 6:7;169:2 encapsulated (2) 169:18;171:24 encompass (1) 162:10 encountering (1)
177:20 drift (1) 138:15 drill (1) 90:14 drink (2) 69:8,11 drinking (2) 158:6,13 Driscoll (1) 39:7 drive (3) 21:25;175:14; 176:11 driven (4) 190:21;225:16; 230:14;236:17 driver (1) 73:3 drivers (1) 236:21 driving (2) 227:18;272:22 dropped (1) 154:8 dropping (2) 153:14;286:24 drought (1) 260:16	earlier (12) 103:24;120:11; 190:9;191:12,21; 211:1;215:3;216:17; 218:16;219:16;240:3; 248:5 early (18) 27:15;44:12;49:18; 51:19;68:9;71:17; 78:22;90:22;110:19; 124:4;144:25;160:22; 195:8;216:18,23; 229:9;291:21;298:20 earn (2) 38:19,20 earned (1) 8:18 earnest (1) 109:18 ears (3) 9:2;136:22;181:9 Earth (3) 21:22;144:6;150:2 earthworms (2) 183:10;187:22 easements (3) 209:14,16;210:2 easier (3) 185:6;190:18;	economy (4) 11:13,14,16;13:19 ecosystem (3) 112:17;239:12; 242:8 edges (1) 212:11 educate (12) 12:14;30:20,25; 33:14;34:17;35:7; 67:23;130:7;136:18; 222:3;260:4;300:6 educated (1) 214:19 educating (5) 123:17;125:16; 138:11;208:2;213:4 education (12) 21:24;105:2;109:2, 4;113:22;114:8; 138:10;186:10;204:9; 210:5,14;211:8 educational (2) 110:12;260:6 effect (1) 206:15 effective (6) 189:25;204:2; 220:8;270:8;295:18,	191:4;192:19;223:24; 252:22;255:7;266:1, 7,9;268:13;284:18; 290:9;296:6,9 Ela (11) 238:17,23,23; 241:9,11,18;242:3; 243:8;244:20;245:19; 246:1 elaborate (1) 147:21 elated (1) 41:18 Elder (1) 264:16 electronic (13) 45:14;46:8,13; 49:17,24;56:7;60:12; 62:3,9,11,20;63:20; 69:2 element (1) 90:15 elements (3) 30:23;46:21;72:13 elevator (4) 195:6,7;197:1,10 eligible (2) 72:4;191:1 eliminate (2)	18:5,10 emissions (3) 145:10;269:10; 273:22 emphasis (2) 49:3;266:10 emphasize (4) 69:16;83:18;84:14; 211:23 emphasizing (1) 67:17 Employee (4) 72:18,21,24;77:3 employees (2) 77:14,15 employing (1) 265:21 employs (1) 269:7 empowered (1) 125:13 empty (2) 6:7;169:2 encapsulated (2) 169:18;171:24 encompass (1) 162:10 encountering (1) 64:6
177:20 drift (1) 138:15 drill (1) 90:14 drink (2) 69:8,11 drinking (2) 158:6,13 Driscoll (1) 39:7 drive (3) 21:25;175:14; 176:11 driven (4) 190:21;225:16; 230:14;236:17 driver (1) 73:3 drivers (1) 236:21 driving (2) 227:18;272:22 dropped (1) 154:8 dropping (2) 153:14;286:24 drought (1)	earlier (12) 103:24;120:11; 190:9;191:12,21; 211:1;215:3;216:17; 218:16;219:16;240:3; 248:5 early (18) 27:15;44:12;49:18; 51:19;68:9;71:17; 78:22;90:22;110:19; 124:4;144:25;160:22; 195:8;216:18,23; 229:9;291:21;298:20 earn (2) 38:19,20 earned (1) 8:18 earnest (1) 109:18 ears (3) 9:2;136:22;181:9 Earth (3) 21:22;144:6;150:2 easements (3) 209:14,16;210:2 easier (3)	economy (4) 11:13,14,16;13:19 ecosystem (3) 112:17;239:12; 242:8 edges (1) 212:11 educate (12) 12:14;30:20,25; 33:14;34:17;35:7; 67:23;130:7;136:18; 222:3;260:4;300:6 educated (1) 214:19 educating (5) 123:17;125:16; 138:11;208:2;213:4 education (12) 21:24;105:2;109:2, 4;113:22;114:8; 138:10;186:10;204:9; 210:5,14;211:8 educational (2) 110:12;260:6 effect (1) 206:15 effective (6) 189:25;204:2;	191:4;192:19;223:24; 252:22;255:7;266:1, 7,9;268:13;284:18; 290:9;296:6,9 Ela (11) 238:17,23,23; 241:9,11,18;242:3; 243:8;244:20;245:19; 246:1 elaborate (1) 147:21 elated (1) 41:18 Elder (1) 264:16 electronic (13) 45:14;46:8,13; 49:17,24;56:7;60:12; 62:3,9,11,20;63:20; 69:2 element (1) 90:15 elements (3) 30:23;46:21;72:13 elevator (4) 195:6,7;197:1,10 eligible (2) 72:4;191:1	18:5,10 emissions (3) 145:10;269:10; 273:22 emphasis (2) 49:3;266:10 emphasize (4) 69:16;83:18;84:14; 211:23 emphasizing (1) 67:17 Employee (4) 72:18,21,24;77:3 employees (2) 77:14,15 employing (1) 265:21 employs (1) 269:7 empowered (1) 125:13 empty (2) 6:7;169:2 encapsulated (2) 169:18;171:24 encompass (1) 162:10 encountering (1)

9:17.21:15:13; 25:11:27:10:28:2: 107:13 29:16:40:7:44:14; engages (1) 58:16;69:23;70:2; 221:1 87:19.20;88:15; engaging (1) 108:14;141:21; 89:4 145:19;187:1;189:22; Engel (1) 201:9:206:2,17; 97:23 engineering (1) 233:20;241:2 encourages (1) 22:10 201:19 English (2) 101:24;206:1 encouraging (8) 78:22;85:19;90:23; 129:18;137:1;206:12; 205:22 254:5;259:24 enhance (3) end (19) 269:9,21;283:22 15:3,22;34:21; enjoyed (1) 24:13 53:10;80:12,19; 140:23;141:5,8; enjoying (1) 199:5,10;211:15; 19:18 220:7;230:3;262:23; **ENOPIC (2)** 266:1,2;267:14;281:4 46:14.15 end- (1) E-N-O-P-I-C (3) 195:23 46:10.11.14 endangered (1) enormous (2) 44:2;54:14 77:5 ended (1) enough (17) 32:23;120:22; 90:1 ending (1) 149:19 219:20:221:10; endocrine (1) 162:3 ends (2) 6:23:64:9 enrich (1) endurance (1) 29:25 188:21 enroll (1) enduring (1) 160:6 enrolled (1) 13:25 end-user (1) 121:4 196:5 ensure (13) 25:3;27:14;47:4; energy (2) 8:4;298:13 52:6;64:15,17; e-news (1) 134:16 297:3 e-newsletters (1) 105:15 ensuring (1) enforce (2) 273:21 35:18;239:6 entail (1) enforcement (30) 108:5 25:21;27:5,11; enter (4) 35:22;36:12;44:23; 71:8;80:1;82:16; 293:4 45:9:46:18.22:50:7: 51:3;55:20;58:13,15, entered (3) 18,19;67:6,21;69:7; 73:8;89:6;90:18; entering (6) 159:18;201:1;207:6, 8;208:2;211:12; 64:6;70:11;129:9 216:19;254:14 enterprise (1) enforcing (2) 277:22 159:24;283:1 enterprises (1) engage (1) 113:1 119:3 enters (2) 48:25;55:17 engaged (4)

14:3:27:13:70:25; entertain (1) 154:12 enthusiasm (1) 125:18 enthusiastic (1) 125:9 entice (1) 138:12 entire (12) 24:20;25:23;36:13; 72:25;144:21;162:10; 192:23;193:16; English-second-language (1) 211:20;230:2;238:1; 288:19 entities (7) 45:13;62:24;76:15; 77:19;80:11,18;198:8 entity (5) 66:5;83:21;89:22; 90:8;272:17 entomologist (1) 20:3 entrepreneurial (1) 124:24 entrepreneurship (1) 199:4 entry (7) 49:20,20;57:7; 166:22;177:7;194:2; 59:11;195:10;254:7, 17 231:15;235:2;238:14; **Environment (19)** 243:10:252:8.14.25: 148:19:152:9: 272:3;278:23;291:1 154:1:190:1:210:5: 215:8:219:18:230:17. 19,22;231:1,14; 239:15;253:11; 265:24;273:1;289:6; 292:13:293:13 environmental (14) 20:2;21:15;27:22; 70:13;108:3;204:14; 210:4;230:15;239:20; 145:20;164:6;270:23; 269:11;270:5;272:21; 271:2;295:22;296:23; 273:6;275:1 environmentalists (1) 258:25 environments (3) 64:8;85:12;231:1 **EPA (6)** 145:11;158:6; 235:4;236:13;271:18; 273:18 **EPA-registered** (1) 55:12;58:22;160:25 270:14 **EPA's (1)** 54:21;59:16;60:22; 270:17 **EPS** (1) 272:2 **EQIP** (7) 116:5,6:190:25; 191:4;193:25;194:2; 203:3 equal (1)

177:18 equation (1) 277:7 equipment (3) 110:4;149:2;199:17 equitable (3) 200:13;201:9; 222:17 equity (9) 87:24;117:11; 120:23;141:3;202:13, 15,16;291:17;293:16 equivalence (8) 48:1,2,9;80:23; 81:7,14;89:23;90:17 equivalency (5) 79:7,8,11;216:20; 288:12 equivalent (7) 81:17;82:13,19; 89:6;255:9;256:22; 288:14 equivalents (2) 82:5;89:13 era (1) 121:25 Erin (10) 17:10;30:13;31:2,7, 14;38:23,24;39:2; 40:17:41:10 Erratic (1) 282:12 escalation (2) 54:4.6 especially (15) 10:19;58:1;105:24; 106:15:166:13:182:8, 14;192:2;205:8; 217:2;223:9;227:24; 248:2;276:24;301:1 essence (2) 30:22:187:2 essential (11) 29:20,23;123:7; 170:22;176:24;182:4, 6;191:5;214:10; 243:17;251:17 essentiality (2) 183:15;243:17 essentially (2) 260:18:294:3 establish (2) 213:14;274:3 established (8) 94:3;104:21; 107:10;145:16;153:9; 200:15;288:9;289:9 establishes (1) 249:11 estate (1) 195:4 esteemed (1) 112:3

estimated (1) 65:15 et (5) 140:9:199:9: 219:19,19;229:22 etc (1) 105:16 etching (1) 147:25 eternally (1) 27:3 EU (14) 47:17,25;48:3,3; 49:9,12;50:3;56:24; 218:7;255:3;257:16, 16,17,22 eureka (1) 126:10 Europe (3) 22:16;256:12; 257:14 evaluate (3) 189:22;208:16; 279:2 evaluations (1) 283:5 **Evelinia** (4) 121:3,4;130:2,2 Evelyn's (1) 129:20 Even (45) 14:15:15:7:32:1: 33:22:35:19:46:1; 54:3;59:25;60:11; 62:14:63:18:78:13: 92:2;93:15;114:24; 119:20;121:1;124:20; 130:16;131:21;135:3; 145:4;147:11;148:21; 168:2;186:21;191:2; 196:3;205:25;221:15; 231:3;240:19;245:11; 246:5;248:3;249:14; 253:4;255:15;256:13; 266:25;273:9;274:16; 286:24;298:21;299:8 even-keeled (1) 132:3 event (4) 10:20;29:7;82:14; 120:10 events (16) 70:23;102:7,8,11, 20,20,22;105:13; 106:2;107:2;126:16; 132:21;134:3,17; 139:13;196:15 **Eventually** (2) 61:25;283:6 Evers (6) 13:19;99:12; 108:19,21,22,24 everybody (27)

Spring 2024 Meeting	
6:10;12:18;18:24;	exciting (7)
19:15;20:17;39:15;	86:21;116:3;
45:9;52:13,15;59:1;	125:14;142:10;
75:15;85:13;87:5;	172:19;213:16;
111:22;141:25;142:7;	235:24
155:22;172:9;173:1;	excluded (2)
209:7;214:14,25;	170:3;283:15
224:13;235:8;276:2;	exclusively (2)
291:12;301:21	21:7;193:25
everybody's (3)	excuse (3)
12:15;42:16;301:5	102:22;122:23;
everyone (19)	285:10
6:5;30:11;31:18;	executed (2)
45:2;96:7;98:25;	78:24;139:19
117:7;124:15;132:12;	execution (1)
141:21;167:22,22;	193:6
168:13;171:20;	Executive (5)
175:19;189:6;233:10;	95:23,25;143:21;
247:22;281:13	200:8;291:10
everyone's (1)	exemption (1)
86:22	283:6
everything's (1)	exercise (3)
99:19	91:6;145:19;280:
everywhere (1)	exercising (1)
179:23	50:9
evidence (5)	exist (2)
49:21;60:9,19,23;	131:6;173:23
91:14	existing (4)
evolving (2)	163:8;192:1;197:
64:8;293:15	222:2
exact (5)	exits (1)
60:2;84:7;244:21;	6:23
256:21;258:3	exorbitantly (1)
exactly (3)	260:17
76:10;101:21;280:3	expand (6)
exam (1)	104:17;106:18;
77:17	170:1;201:14;27
example (29)	294:4
36:19;47:9,10;	expanded (1)
56:15;57:1,3,14;	109:12
63:13;67:25;77:2,5;	expanding (2)
81:5;82:16;83:2;	45:20;292:18
88:16;89:10;93:11;	expansion (1)
144:9;152:22;164:14;	254:11
190:15;196:23;	expect (5)
211:10;212:2;229:11;	102:19;121:1;
231:12;274:5;281:3;	136:14;222:5;25
287:16	expectation (1)
examples (5)	212:18
25:22;37:3;59:10;	expected (5)
91:15;167:15	63:3,6;73:18;151
Excellent (6)	251:15
40:23;98:19;	expecting (3)
132:12;193:14,14;	80:12;237:17;
245:19	251:18
except (3)	expedite (1)
59:13;235:8;249:18	226:20
exchange (1)	expensive (4)
232:11	162:16;180:25;
excited (8)	181:2;262:12
87:10,13;103:18;	experience (31)
111:14;127:5;150:1;	8:5;11:17;15:7;
164:10;201:12	22:11,12;23:1,2;

24:22;25:10,24;26:8; 96:1:106:12:121:25: 0; 123:5;125:4;167:1,3; 6: 187:11;189:15;192:8; 195:25;226:17,23; 243:9;249:21;252:21; 278:22;292:24;293:7; 296:11 experienced (6) 118:21:195:10; 23; 234:24;287:21,23; 288:10 experiences (5) 11:21;14:10;28:9; 29:25:124:9 experiencing (4) 14:25;218:12,21; 3:21; 262:14 experiential (1) 123:3 expert (4) 119:1;185:25; 280:19 245:22;278:10 expertise (11) 70:12;71:9;76:6; 87:22,23;88:3,6; 108:12;114:23;150:9; 233:22 197:6; experts (6) 35:11,24:36:3; 202:11:232:25; 283:10 expiration (1) 169:4 expired (1) 8: 172:8 4:271:4; explain (2) 85:11;295:13 explained (1) 98:8 explaining (1) 208:1 explains (3) 37:6;84:21;117:19 explicitly (1) 65:17 exploring (1) 5;251:21 179:6 Expo (1) 179:4 3:151:7; exponential (2) 132:22,25 export (2) 10:7;46:16 exporter (4) 49:25;55:15;69:6; 81:13 exporters (9) 25; 48:18;49:16,23; 53:15:68:25:69:1; 76:15:81:1.1 :7; exporting (4) 58:10:62:20:78:9;

257:16 exposed (1) 224:7 exposes (1) 242:24 exposing (1) 226:22 exposure (3) 228:5,20;234:25 expressed (2) 70:22;277:18 extend (1) 103:15 extended (2) 89:2;270:23 extension (5) 103:10;110:14; 138:11;280:15,17 extensive (2) 198:12;254:4 extensively (2) 138:22;273:8 extent (1) 199:14 extra (3) 71:23;182:21; 215:20 extract (1) 244:12 extracts (1) 241:13 extraordinary (3) 39:6,13;220:6 extreme (1) 182:10 extremely (4) 113:20;189:25; 214:10:230:16 extremes (1) 120:4 eye (3) 25:7;90:11;165:24 eyes (1) 48:20 \mathbf{F} fabulous (4) 17:18,24;72:22; 73:14 face (2) 161:24:300:18 face-to-face (1) 241:3 facilitate (3) 7:9;165:16;246:21 facilitating (1) 82:5 facilities (1) 129:4 facility (1) 152:6 facing (3)

196:24;226:4;300:2 fact (34) 15:6:35:16:45:4: 48:20;49:18;52:17; 58:13:60:18:63:6: 65:21:66:6:76:18; 80:17;82:10;89:25; 102:25:107:22; 116:19;126:5;133:3, 3;135:21;136:8; 178:2;186:18;193:16; 200:14;217:3;218:18; 238:10;245:5;268:20; 282:8;289:6 factor (4) 106:10;252:16,16; 274:17 factors (2) 87:15;146:25 factory (1) 259:13 faculty (1) 21:12 fail (7) 153:25,25;208:7,8, 8,9,9 failed (2) 208:6;248:14 failing (1) 208:7 failure (4) 156:8,8,10;228:1 failures (1) 236:24 Fair (9) 112:20;159:23; 177:4;186:11;217:3; 222:17;223:15; 249:21;293:3 fairly (9) 16:12:34:9:71:18: 79:15:80:13,16; 89:11;90:7;246:8 faith (2) 62:6;91:6 fall (10) 24:2;29:15;87:4; 118:16;143:23;161:1; 167:9;199:16;201:24; 283:15 falling (1) 250:13 Falls (1) 8:20 false (1) 153:19 familiar (6) 36:9,10;39:10; 161:6;248:10,10 families (1) 234:23 family (10)

22:17,17,18;29:10;

spring 2024 Wreeting	1			April 23, 2024
96:9;215:1;227:24;	farmer- (1)	127:12,16;130:25;	feat (2)	132:2;136:20;
	209:15		26:20;199:16	182:12,20
239:13;258:13;299:7		135:12,15;183:11;		
family's (1)	farmer-led (2)	194:21;197:17;201:8,	feather (1)	fellow (6)
21:19	112:16;130:17	23;230:16;239:12,14;	182:9	22:13;24:18;28:5,
fan (2)	farmers (174)	251:12;259:19;260:5;	feature (1)	24;30:4;209:2
100:12;249:17	8:9,10;12:8;13:9,	263:17;269:16;271:7;	140:3	fellowship (1)
fancy (1)	11,12;14:20,22,24;	274:24;276:5;292:6,	February (1)	205:13
192:17	15:2,9,11,19;22:13;	17;293:3	229:4	felt (5)
fantastic (4)	40:7,15;51:4,7;64:11;	farmland (6)	fed (5)	73:18;119:16;
118:17;233:16;	65:3;76:14;83:21;	8:2;10:24;20:6;	177:17;178:8;	122:21;234:6;264:12
262:7;286:20	86:12;100:4;103:12;	109:5;209:12,13	187:12,15;299:12	fence (2)
far (13)	104:22,23;105:9;	farms (57)	Federal (19)	134:20;239:2
55:2;70:20;108:8;	107:5;109:2,5,14,19,	22:18;43:20,25;	6:18,19;27:18;	FERC (6)
122:1;133:5;137:24;	20,24;110:3,7,9;	44:3;51:2;64:19;	35:17;45:4;78:6;	298:13,14,21;
145:10;190:13;221:5;	113:12,21,25;114:3;	66:14,24;67:2;80:20,	141:7;147:13;159:25;	299:13,25;300:5
227:16;248:11;	115:12,21,25,114.5,	22,22;85:8;103:15;	191:5;201:13;207:5,	fermentation (3)
257:24;265:25	118:3,7,12,18,21,24;	106:8;107:7;109:21;	7,9,19;219:11;259:6;	214:8,9,9
farm (85)	119:1;120:1,14,23,24;	113:3;114:17;118:22;	276:10;298:13	fertile (1)
11:20;12:12,25;	121:1;122:18,19,21;	120:18,21;124:4,21,	feed (22)	287:20
13:3,4,14;14:23;	123:10,11;125:19,25;	23;125:22;126:19;	57:3;121:19;	fertility (4)
20:22,24;21:19;	126:23;127:7;129:25;	127:6;162:18;167:2;	166:21;177:11;	111:2;189:23;
22:17;35:12,25;	130:12;131:9,16,18;	184:3,23;187:18;	178:13;179:10;	263:21;292:8
36:14;79:9;80:20;	133:8;134:1,20;	189:12,18,19,20;	180:19;181:1;195:20;	fertilizer (4)
84:7,8;94:2;102:16;	136:11,12;138:11;	190:8;191:25;192:1,	227:25;260:14,17,17,	177:24;245:5,7;
104:23;105:8,11,21;	140:1,24,25;141:13;	6,18;193:23;194:13,	19;261:3,18,19;	267:2
112:23,25;113:13;	144:23;160:18,20;	22;247:15;259:13;	262:12,19,20;268:3;	fertilizers (2)
118:13,17;120:9;	161:4,9,12,14;163:7,	260:18,18;264:25;	273:7	33:3;298:24
121:14,16,17,17,22,	8,9,13;176:19;180:5;	277:10;288:1;294:9,	feedback (11)	few (37)
24;122:10;123:16,24;	184:2,4;189:22;	9;299:5;300:5,6	6:24;30:18;51:2;	10:21;23:22;28:19,
124:16,25;125:20,25;	190:12,20;191:10,11,	farm-to-school (1)	57:24;58:5;66:18;	22;32:12;41:23;
126:3,15;133:14;	13,19,22;192:7,8;	8:3	68:8;74:11;83:23;	61:20;94:13;99:20;
135:1;137:25;139:3;	193:8,19;194:1,18;	farm-to-table (1)	118:25;287:3	101:22;112:13;118:8;
141:19;183:6,23;	195:6;196:1;200:9,9,	126:16	feed-cost (1)	122:12;130:4;138:25;
189:4;191:23;192:5;	9,13,17;201:7,9,22,	farmworker (2)	260:13	140:13;142:11;
193:24;194:3;195:3,	25;202:2,5,14;	292:14;293:16	feeders (1)	146:15;155:7;188:10;
4;197:16;202:3,7;	203:13;204:7,13;	fascinating (2)	262:15	203:4;214:6;223:25;
203:18,25;205:18;	205:11,13;209:17,19,	76:19;93:23	feeding (11)	225:3,17;246:25;
211:9;213:15,16;	20;210:7,11;211:2;	fashion (1)	13:12;14:6,6,7;	252:21,24;253:8;
221:1;239:13;253:25;	219:10;220:23;223:9,	122:3	19:13;85:18;125:15;	271:21;276:13;
257:4;263:10,14;	9,19;236:18;237:13;	fast (4)	177:6;178:6;182:7;	282:14;293:23;
276:3;289:21,21;	242:19;253:24;254:2,	132:17;183:21;	259:14	296:15;297:14;298:8,
291:17;295:9;298:6,	6;259:1,11,21,23;	228:4;233:2	feedstock (1)	9
7;299:6,7,13,21	261:8;262:23,23;	faster (7)	265:15	fewer (1)
farmer (64)	269:25;270:2,8;	92:23;203:7;	feedstocks (5)	269:24
12:16;15:5,5,16;	289:13;291:18,20,25;	206:13;253:8,10,11,	144:5;152:2,3;	FGIS (2)
	293:1,4,7;294:8;	12	271:5,12	
22:6,18;27:22;43:22;				78:7,15
70:4;71:7,19;83:17,	295:7,17,23;296:11,	fat-fingered (1)	feel (26) 9:12;15:25;30:16;	fiber (3) 9:16;11:24;12:7
18,19;85:6;105:21;	23;297:5;299:18;	59:11		
109:3;112:15;113:6,	300:15;301:1	father (1)	31:20;32:2;39:11;	fibers (1)
11;114:5,5,8,25;	farmers' (5)	22:16	75:12;83:15;91:1;	149:12
115:8;116:14;121:3;	190:4;191:3;	father's (1)	118:19;139:19;	field (22)
122:15;129:20;	196:14;269:11;292:3	9:2	151:18;179:10;	75:22;79:19;80:4,6,
130:14,23;131:3;	farmer's (5)	fault (1)	180:11;194:15;206:5,	11;87:4;89:7;102:10,
135:17;160:25;	22:7;23:1;210:9;	166:2	11,15;209:6,7;224:7;	11;105:2;113:11;
194:14,17;198:5;	230:6;266:5	favor (1)	238:4;240:9;248:16;	115:25;122:20;128:9;
200:10;201:7,18,24;	Farmer-to-farmer (1)	251:4	259:15;260:3	152:6;161:18;184:1;
202:9,10;205:5,6,16;	122:25	favorite (3)	feeling (2)	194:4;195:2;200:14;
208:7,8,14,20,20;	farming (39)	17:3;22:18;132:18	31:22;261:9	222:17;288:1
211:15;213:25;215:1,	20:20;30:2;70:4;	FDA (4)	feels (2)	fielding (2)
2,10,15;223:16;	104:15;108:12;	77:9;235:4;243:17;	75:14;205:7	51:1;153:3
237:16;243:23;	112:19;113:15,16;	251:23	fees (2)	fields (2)
253:24;263:13;	121:24;122:12,16,16,	feasible (2)	92:4;268:15	80:16;268:23
264:13;292:24	25;123:19;125:16;	153:13;293:7	feet (4)	fifth (2)
- ,	,,,			

Spring 2024 Meeting				April 29, 2024
19:12;298:6	125.10.152.12 10.	57.10.69.10 10.	160.14.192.9.225.17.	94:12;104:20,23;
	135:18;152:13,18;	57:19;68:10,10;	162:14;183:8;225:17;	109:2,4,4,24;114:4;
fight (2)	179:3;205:17;254:18	100:1,13;118:9;	233:17;241:22;	
198:13;215:8	findings (3)	126:8;132:24;137:19,	246:23;277:6 focused (12)	115:9;121:14,16,20,
fights (1)	34:1;254:19;282:21	21;138:18;141:8;		20,22;122:5,5,7,8;
96:9	fine (4)	147:14;160:1;179:4;	77:21;107:2;129:1,	124:4,10;126:3,10,20;
figure (12)	186:3;217:15;	184:3;189:18;190:16;	3;143:22;178:22;	131:18,19;144:12;
27:9;75:15;125:12;	259:13;278:13	192:19;221:8;225:4;	209:12,16;246:11;	145:4,5,8;146:10;
136:17;156:5;177:20;	fines (2)	235:7;282:4;299:17	272:22;274:10;	152:3;160:18;208:21;
184:6;193:4;218:11;	35:18;89:5	five-year (2)	277:22	209:2,5;212:23;
278:5,12;280:9	finesse (1)	140:22;205:14	focuses (2)	224:22,24,24,25;
figured (1)	161:8	fix (3)	123:17;282:10	225:18,23,24;227:19,
46:11	finest (1)	160:8;201:16,20	focusing (3)	23;228:1,5;229:8;
figures (1)	30:6	fixed (1)	8:2;36:6;228:25	230:15;234:12,16,25;
184:6	finish (4)	193:13	FOIA (1)	235:5,7;236:10,12;
figuring (5)	25:20;54:7;86:20;	flags (1)	277:2	239:21;259:1,10,10,
66:19;89:9;154:2;	151:14	68:13	fold (5)	11;264:9;270:17;
159:7;242:17	finished (16)	flashing (1)	52:5,23;63:17;64:4,	271:6;272:21;273:17,
file (2)	144:19;150:22;	277:23	7	18,21;292:16;293:10,
166:25;299:1	151:21,25;152:11,12,	flat (1)	folks (65)	17
filed (3)	20;157:14,17;251:13;	186:25	16:16;17:15;18:1,6,	foods (11)
143:23;271:21;	266:3,11;268:18;	flexible (2)	12,18;26:19;30:16,	8:3;21:23;33:21;
298:21	274:15;275:9,19	275:16;278:22	24;31:13;51:13;52:4,	42:11,14;123:22;
filing (2)	fire (3)	flighty (1)	24;54:2,7;62:15;	183:22;216:14;225:8,
62:25;63:8	119:8,11,21	182:16	63:12;65:1,11;67:22;	18;228:19
fill (4)	fires (1)	flip (1)	68:13;69:22,23,25;	food's (1)
27:19;45:13;161:9,	42:23	78:10	70:3,17;72:16;75:9,	135:13
12	firm (1)	flip- (1)	10,16;76:20;78:8;	foot (1)
filled (3)	168:15	130:24	85:20;87:18,19,20,24;	182:22
29:21;142:9;184:11	firms (1)	flipped (1)	88:2;100:24;101:25;	forages (2)
filling (3)	232:24	59:15	102:2;103:10;107:3;	260:22;261:5
29:18;46:20;53:19	first (62)	flock (4)	116:21;134:21,24;	Force (5)
film (1)	10:25;11:5;16:17;	177:15;180:19,24;	135:8;136:15;137:2;	176:2,4;180:9;
274:8	17:6;23:4;24:1;28:14;	182:13	141:6;191:19;193:1;	222:12;256:17
final (5)	34:24;35:10;43:19;	flocks (1)	204:22,23,25;205:22;	forced (2)
25:22;36:24;37:2;	45:9;47:2;48:14;	182:10	207:22;213:9;224:6;	196:3,16
206:17;254:23	49:14;59:21,25;	flood (1)	231:24;232:8;257:15,	forces (1)
finalize (1)	60:25;76:8,16,16;	251:20	23;293:25;300:24	234:16
221:21	79:13;91:3;92:13;	floor (1)	follow (13)	forefront (1)
finally (10)	110:14;120:11;	31:15	12:4;54:4;61:7;	29:22
31:4;36:17;53:9;	122:12,25;128:17;	flops (1)	63:8;77:9;84:1;	foreign (2)
105:6;111:3;162:21;	132:1;134:21;136:20;	130:25	174:10,15;175:23,24;	89:22;265:1
169:5,6;240:25;	138:9;143:18;161:20;	flow (1)	228:2;246:4;256:5	Forever (2)
244:23	168:22,23;176:9;	254:14	follow- (1)	135:7;203:20
financial (5)	182:15;183:6;187:9,	flowers (1)	290:12	forget (3)
104:17;196:17;	10;190:6;196:19;	119:9	followed (17)	160:15;231:24;
210:1,1,13	203:24;205:24,25;	flown (1)	143:18;163:19;	238:21
financially (1)	213:6,25;218:6,19;	187:10	183:2;200:5;206:21;	forgive (1)
120:4	227:4;228:16;237:5;	flunixin (3)	213:21;220:16;246:2;	128:16
financing (1)	256:3;258:16,20,21;	296:4,5,8	253:22;258:10;263:6;	Forgot (1)
109:25	270:13,17;276:6;	fluorine (3)	269:1;272:11;276:1;	104:18
find (26)	279:24;298:19	149:3;157:18;158:3	286:5;291:8;294:21	fork (1)
30:1;37:9;39:11;	first-hand (1)	fly (9)	following (7)	268:4
67:3;72:10;85:9,10;	105:22	177:3,8,16,19,23;	35:21;58:25;59:1;	form (5)
109:24;132:10;150:9;	fiscal (1)	178:3,7;179:12;181:1	60:17;153:7;289:21;	88:22;147:7,20;
152:17;159:5;168:24;	280:16	flyer (1)	291:19	197:11;259:2
172:21;179:8;193:1;	fish (3)	301:17	follows (1)	formal (2)
202:21;204:10,22,23;	182:13;273:7,9	focal (1)	121:13	71:24;193:20
206:3;235:15;237:2;	fit (1)	71:9	follow-up (2)	formally (1)
244:11;290:24;	119:15	focus (18)	67:19;230:12	140:8
292:24	fits (1)	35:8;50:19;105:1;	food (81)	formatting (1)
finding (10)	114:12	107:11;116:19,23;	9:16;11:23;12:5,7;	164:7
51:15;113:24;	five (27)	107.11,110.19,23, 123:19;133:22;	13:1;14:16;17:22;	formed (4)
119:25;125:13;	10:13;52:2;56:18;	140:17;144:7;149:18;	21:2;33:3;37:21;	97:23;100:11,11,14
117.23,123.13,	10.15,52.2,50.10,	170.17,177.7,177.10,	21.2,33.3,37.21,	77.23,100.11,11,14

former (1) 246:12 formerly (1) 112:11 forming (3) 101:5;194:22;204:6 forms (3) 88:23,24:168:24 formula (2) 134:10:159:13 formulation (1) 249:25 formulations (3) 255:1;269:21; 271:19 Formulators (1) 184:22 forth (1) 127:18 fortunate (1) 13:17 fortunately (2) 231:11;299:3 forum (1) 85:25 forward (33) 13:24;20:15;27:14; 28:19:30:7:64:17: 66:9;108:15;116:12; 121:25;124:8;144:11; 183:23;203:4;204:4; 211:4:218:6:221:4. 20;222:24;226:7; 237:3:244:5:247:25: 249:24;254:23;255:1; 256:9;259:13,18; 281:15:283:3:287:7 foster (12) 106:1;185:17; 238:17:246:2,4,10; 249:13;250:24;251:6; 252:4:253:18,20 found (12) 58:11:103:2; 148:10;151:12;179:1; frequently (1) 187:25;188:10; 199:18;225:10;227:5; 238:10;267:18 Foundation (2) 276:6;292:6 foundational (3) 276:5:288:18: 291:22 foundations (1) 205:14 founding (1) 168:14 four (18) 29:8;32:18;35:8,10; 37:7:40:3:45:17:70:1; 87:11;109:19;137:21; 141:1;183:18,20; 253:10;259:8;286:7;

299:6 Frost (1) four-pound (1) 118:1 180:17 frozen (1) 229:22 fourth (5) 11:5:22:8:23:3.11: fruit (9) 35:12 fragile (1) 202:7 fruitful (1) frame (2) 83:15;292:22 221:15 framework (3) 162:6:270:9,19 196:14 frameworks (1) fruits (10) 63:2 France (2) 217:2;256:16 Francisco (2) 144:22;148:19 Franklin (3) 198:21 20:1;237:9;299:6 FSMA(1) frankly (6) 222:11 25:22;55:11;156:2; fuel (3) 219:9;227:22;234:10 fraud (15) 36:15;64:25;76:12; 85:3,7;89:4,5;168:17; full (12) 196:13;200:16,20; 201:6;233:18;254:17; 259:21 fraudulent (4) 54:25:90:3:196:8: 255:13 254:13 fraudulently (1) 23:25 35:23 Fred (1) 203:19 fullest (1) 241:16 free (8) 160:6 15:25;31:20;32:15, 152:5 19;121:21;165:21; 176:20:264:3 freelance (1) fully (7) 276:10 freezer (2) 37:11,12 292:2 93:13 fun (2) fresh (2) 237:23,25 Friday (2) 69:2 43:21;187:22 fridge (1) 237:6 37:11 fund (5) friend (1) 127:15 friendly (2) 15:21;24:9 friends (4) 15:24;97:19; 172:22;248:9 157:9 **front** (10) funded (5) 17:17;87:16;92:15: 143:4;172:14;176:5, 8,14;220:10;233:10 funding (19)

20:22,24;121:19; 145:5;214:19;237:16, 18;238:24;242:1 fruitless (1) 110:24,24;125:1; 189:20;227:19; 229:21;230:4;234:8; 237:13,23 frustrations (1) 9:16;11:23;12:7 fulfilling (2) 19:2;175:2 18:19;39:10;52:1; 62:19,22;67:3;92:19; 159:20;176:21; 246:18:248:16; full-circle (1) full-court (1) full-scale (1) full-time (2) 266:18;293:3 31:6;38:4;56:14; 110:19;152:1;162:9; 13:25;172:21 function (1) functionality (1) 114:18;194:2; 255:8,8;292:16 fundamental (4) 196:19;276:19; 277:14;288:18 fundamentally (1) 78:6,15;116:6; 280:17:285:18

74:25:94:2:135:5: 141:18.20:186:14: 189:25:190:5.6.19.22. 24:191:4.5.14: 193:16;194:5;213:14; 271:3 funds (6) 186:20;190:11,25; 191:19;194:1;219:8 fungus (1) 253:14 further (3) 221:14;232:5; 239:21 furthermore (1) 240:7 future (13) 45:11;94:19; 153:11;191:3;234:4; 239:15;242:24;244:8; 248:4:255:1:259:3, 18:288:19 G gain (3) 130:15;170:12; 254:19 gaining (2) 133:23;166:25 gains (1) 237:6 gallery (1) 168:13 gambit (1) 176:21 game (7) 39:12;55:18;70:8,9; 172:22;227:14; 254:12 games (1) 10:6 Gantz (2) 18:5,10 gap(3)84:17;260:6;280:7 gaps (3)45:13;46:20;53:20 garden (3) 96:10:126:10:188:1 gardeners (1) 104:23 Garth (1) 117:16 gas (3) 145:12;266:8; 298:10 gastric (1) 296:7 gate (1) 12:12 gather (2) 264:17:285:13

- Vol. 3 April 29, 2024

gathering (5) 221:18:226:13: 248:18;285:9;290:13 gave (6) 77:2;91:7;93:11; 118:9:188:10:219:5 Gays (1) 124:16 geared (1) 129:13 geeks (1) 84:16 gene-edited (1) 255:14 general (12) 79:11;83:22;85:17; 88:13;166:23;190:25; 191:4;193:25;194:2; 205:6;213:3;290:7 generally (13) 100:1:102:22; 166:20;167:15,17,19, 22,23;198:20;199:12; 219:19;252:18;292:9 generate (2) 62:3;274:15 generated (8) 55:4:56:4:164:12, 14,15,16;225:7; 273:22 generating (2) 59:22:164:5 generation (7) 8:10:22:6:108:7: 123:10;127:11;262:4; 298:6 generational (1) 127:8 genetics (1) 296:21 gentle (1) 97:1 geography (1) 139:9 germane (1) 127:9 Germany (1) 256:16 germination (1) 154:23 germplasm (1) 283:9 gets (4) 151:21;157:19; 159:9;202:22 ghostwriter (1) 176:6 ginseng (1) 10:12 girl (1) 97:3 given (5) 23:17;122:24;

- Vol. 3 April 29, 2024

Spring 2024 Meeting	I
188:16;217:9;296:8	67:7;69:1
gives (6)	96:6;97:
36:12,15;50:14;	108:22;1
91:22;124:6;293:7	116:22;1
giving (7)	118:5;11
52:20;72:17;86:17;	136:6;13
	141:7;15
103:6;108:22;125:11; 234:2	
	159:22;1
Glad (2)	166:13;1
19:24;187:8	184:9,17
gladly (1)	188:19;1
241:4	206:16;2
glaring (1)	216:16;2
277:23	219:5,5,1
glitches (2)	221:7;22
59:21;68:18	235:15;2
global (3)	245:2,18
57:11;145:13;	250:24;2
162:10	262:1;26
glyphosate (4)	13;280:2
215:18,25;225:12;	284:6;28
233:23	291:2,10
GM (1)	goodness (2
289:2	95:16
GMO (1)	goods (2)
292:10	63:11,19
GMOs (1)	Google (1)
34:7	232:23
gnats (2)	Gosh (1)
250:21;253:15	82:23
goal (10)	go-to- (1)
71:19;103:19;	21:7
139:2;164:9;170:10,	govern (1)
10;197:10;222:20;	77:10
262:5;270:12	governanc
goals (10)	74:24;81
29:24;105:25;	governmer
106:15;119:4;125:15;	8:5;17:7;
145:22;165:6;204:21;	77:13,15
240:24;277:18	127:23;1
goat (1)	227:22;2
11:4	15;235:1
goats (1)	292:15
10:13	governmen
god (1)	33:23;35
188:21	governmer
goes (13)	81:12;82
18:12;29:4;37:5;	governor (
65:6;87:16;88:1;	13:17,19
142:12;171:19;198:3;	Governor's
203:1;208:12;216:13;	8:16
260:19	grab (1)
	31:21
gold (1)	
296:1	grace (1)
golden (1)	28:17
236:9	gracious (2
Good (90)	7:3;170:
6:5,10;9:22;14:16;	grade (1)
15:7;18:24;19:15,21;	237:24
20:10,17,25;21:9,21;	grain (31)
22:5;23:6;26:8;31:9,	19:17;78
18;34:9;39:2;42:23;	109:22,24
53:21;62:6;65:14,22;	14,16;13
	1

67:7:69:18:81:22: 18:195:5.12:196:1.2. 96:6:97:16:98:25: 4.6:197:14:201:6.13: 108:22;111:21; 254:4,13,15:260:23; 116:22;117:7,19; 261:19:262:13.14.18. 118:5;119:15;132:4; 23 grained (1) 136:6;137:7,13; 141:7;150:2;152:22; 278:13 159:22:160:16; grains (4) 22:19;23:2;121:18; 166:13;167:1;183:1; 184:9,17;185:7; 129:9 188:19;199:12; grandfather's (1) 206:16;212:11;214:4; 127:12 216:16;217:22;218:6; grandmother's (1) 219:5,5,11,13;220:18; 268:2 221:7;226:2;228:19; grandparents' (1) 235:15;238:23;240:9; 263:14 245:2,18;246:1; grant (7) 250:24;259:9,9; 12:21;129:13; 262:1;269:5;272:4, 213:6,15,17;271:2; 13;280:25;281:20; 285:19 284:6;285:10;288:5; granted (2) 291:2.10:298:5 45:25;180:20 oodness (1) granting (1) 210:14 grants (3) 74:14;113:24; 195:21 grape (3) 214:1;217:7,10 graphics (1) 35:2 grateful (7) 19:20:23:5:27:3; 29:7;30:8;104:15; overnance (3) 124:7 74:24;81:7,8 gratitude (1) overnment (18) 117:8 8:5;17:7;76:11; grave (1) 77:13,15;81:12; 240:19 127:23;141:8;219:11; grav (1) 227:22;234:10,13,14, 83:20 15:235:12:259:1.6; graze (1) 121:18 overnment-backed (2) great (71) 33:23;35:15 12:6;14:1;16:4,7; overnments (2) 18:22;19:23;22:25; 81:12;82:11 24:3;34:14;40:23; overnor (2) 41:10,17;48:19; 63:21;67:14;68:8; Governor's (1) 71:5;73:14,20;79:13; 84:6:85:25:86:24; 87:16;90:22;95:5,5,7; 96:6;98:22;108:6; 111:22;113:1,7; 119:6;122:10;124:6; 127:17;128:4,16,22; racious (2) 7:3;170:17 129:7;133:10;134:19; 147:3;151:16;159:15; 166:8;173:9;174:6; 178:23;183:7;195:15, 19:17;78:6,9; 20;196:11;201:7; 109:22,24,25;129:1,2, 217:21;221:13,17; 14,16;134:4;189:5, 223:1;226:24;245:6;

253:13,14:258:6; 265:4:269:4:274:1: 279:16:284:23:299:9 greater (4) 25:19,24;108:14; 161:8 greatest (5) 117:20:128:19; 207:5,7;265:23 green (9) 58:21;59:8,10; 112:1;127:12;164:4; 229:12.14.17 greenhouse (5) 161:19;251:10; 252:9,13;253:8 grew (5) 24:13;121:23; 127:9;130:3;263:14 grievances (1) 25:10 grieving (4) 53:5,9,11;62:15 grocery (2) 32:2;37:14 ground (8) 43:2;75:9;126:9; 132:2;166:25;232:13; 242:21;287:20 grounded (2) 100:1:132:2 grounds (2) 188:8.10 groundwater (1) 149:16 group (37) 19:23;24:7;31:12; 39:18;70:16;77:24; 80:2,4,11,18,20; 97:18:104:22:106:19: 109:23:127:2:139:6: 163:11:174:3:176:10, 16,20;185:14;191:23; 193:18;201:24;202:9; 243:15;258:25;283:3, 4,8;284:25;285:14; 287:1;293:6;294:10 groups (32) 18:10;50:21;69:22; 79:6,21,23;80:5,8,10; 105:16:135:6.7.10; 148:19;176:10; 187:16;194:19; 203:14,17;204:6,6,12; 210:4;234:21,22; 243:11;251:19; 292:19,19;293:22,25; 294:6 grow (26) 14:4;22:18;102:17; 110:11;115:9;121:17, 18;122:8,13;123:9; 124:25;125:1;161:17;

180:5;181:18;195:1; 196:24:217:24: 220:24;228:8;234:7; 235:5;237:16;286:11; 287:17:289:9 grower (23) 79:6,21,23;80:2,4,5, 8,10,11,18,20;214:1, 22,24;218:24;238:24; 255:5:292:19.19; 293:6,22,25;294:6 growers (20) 107:12;123:10; 184:19,22;214:19; 217:8;218:14;252:9, 21;253:2;257:25; 258:1;262:16,18,18; 287:18,21;288:10; 289:10,18 growing (20) 14:5;17:24;29:10; 81:13;98:15;108:16; 122:6;124:11;126:10; 129:1;186:7;189:11, 20;191:17;216:14; 244:5;252:17;253:11, 14,14 grown (9) 82:23;126:20; 184:9;221:24;222:9; 225:3,19:236:25; 241:14 grows (1) 126:9 growth (13) 33:6;102:19; 103:17,21;106:11; 132:22,25;186:22,23, 25;247:11;286:21; 292:21 grumbling (2) 218:19,20 guarantee (3) 25:14;195:16; 240:10 guaranteed (2) 217:9;245:9 guardrail (1) 245:23 guardrails (3) 244:17:245:17.19 guess (13) 10:19;11:7;16:11; 22:8;93:17;134:23; 136:24;180:8;220:3; 249:9;257:17;290:2, 12 guessing (1) 279:9 guidance (16) 11:11;109:16; 136:1;138:19;162:11;

Burke Court Reporting & Transcription (973) 692-0660

184:15;200:21;

184:4

hand (16)

19:273:5

7.9

handle (1)

83:24

handled (1)

196:13

handler (4)

285:25

handlers (9)

247:14

handler's (2)

22

18

81:6

hang (4)

hanging (2)

Hans (1)

298:6

happen (15)

300:15

happens (6)

hands (4)

19:11:21:1

222:21;226:19;256:2, 4:276:18:279:4.13: 282:25:287:7 guide (2) 256:2;283:10 guided (1) 183:10 guideline (2) 222:19;224:2 guidelines (1) 35:21 guides (2) 183:11,11 gut (1) 273:12 guts (1) 210:18 guy (4) 9:2;96:16;217:23; 218:2 guys (16) 31:25:54:22: 104:12;108:17;121:5; 139:25;141:25;150:3; 183:13;188:6;281:16; 286:7;291:6;294:20, 23;301:13 Gwen (1) 175:23 Gwendolyn (8) 160:14:163:19; 168:10.13:170:23: 171:4;173:6;175:18 Gwen's (1) 175:24 Η habit (1) 26:22 Habitat (1) 95:25 habitats (1) 230:24 habits (1) 145:8 Hain (8) 286:6;291:8; 294:21,23,25;297:9, 12,20 half (6) 47:23;52:14; 177:24;198:11; 248:10;280:16 hall (3) 30:15;117:17;223:7 hallmarks (1) 249:15 halls (1) 221:16 hallway (1) 6:24 hammered (1)

115:5;159:18;231:18 happy (11) 33:12;34:2;155:13; 6:8:28:21:43:21; 70:17;88:5;92:9,9; 165:17;170:1;179:18; 143:14,15,15;165:24; 187:8;246:6;247:17; 215:18;223:8;239:11, 257:4;275:2 hard (20) 18:12;32:20;54:24; Handbook (6) 17:19;32:15;73:4,6, 97:17;105:17;155:23; 182:8;200:11;201:8; 205:5,5,25;218:21; 222:16:223:1:231:2; 238:7;246:4;252:8; 290:11 harder (4) 49:25;62:20;65:6; 119:19;161:9; 165:4;222:12 hard-pressed (1) 27:22;49:16,23; 159:4 53:14;65:10;76:14; hardship (1) 220:24;223:14; 119:25 hardships (2) 15:10:119:10 hardware (1) handling (11) 232:25 48:13;52:21;53:12, harm (2) 13;63:11,18;70:5; 26:8;268:14 82:23;248:23;257:15, harmful (2) 25:11;123:20 harmony (1) 11:19:14:9:184:17, 295:4 harms (1) handshake (3) 298:12 52:14:63:5:69:5 harp (1) handshakes (1) 247:8 HARRIET (17) 124:14,16;125:23, 118:9;214:22; 24;126:15;127:14,17; 265:8:293:18 131:25;246:3;253:21, 23:255:21:257:7.10; 42:12;281:5 258:6,9;286:17 Harriet's (1) 288:12 harvest (1) 43:3;86:2;112:8; 264:18 hate (1) 121:1;131:15,16; 152:5;186:15;196:18; 248:8 haul (1) 207:22;218:1;223:10; 231:16;232:7;236:4 197:13 happened (13) haulers (2) 26:14,18;44:8;45:5; 270:25;271:3 49:14,22;55:18;60:2; hauling (1) 86:17;115:6;193:17; 299:16 195:25;236:16 Hawaiians (1) happening (16) 88:11 52:11;64:23;85:22; hay (3) 92:14;93:16;95:18; 260:22;261:6; 97:3;107:7;120:17; 262:21 132:22;138:6;140:5; hazard (1) 207:23;232:10,15; 162:4 head (5) 10:6:13:7:21:14; 26:8;36:2;60:3; 95:4;301:19

headlines (1) 212:8 healing (2) 292:12.12 health (20) 15:5;123:17,19; 144:7;189:14;212:18; 227:18:228:3,6; 234:24;239:13; 240:15:263:21; 272:22;273:4;275:1; 293:2,13:298:17,17 healthier (5) 215:8,9;219:18,18; 234:12 healthy (10) 12:17;24:25;25:4; 121:20;123:22; 124:10;219:12,12; 243:18;293:17 Healy (6) 17:10;30:13;31:18; 39:21;41:17;73:20 hear (32) 7:12,18;9:1,2; 11:18,21;16:11,12,19; 22:2,23;29:13;31:19; 95:7;104:12;113:1; 129:18,19,24;133:6, 11:142:1:155:13; 164:18;198:5;201:12; 205:1:210:19:222:6: 223:24;244:12;288:4 heard (27)22:11;34:16;38:2; 49:19;74:11;95:13, 15;119:8;135:21; 144:21:173:13: 174:18;180:5;190:9; 203:24;216:17; 218:19;223:5;228:18; 240:3;244:13;247:12; 248:4;257:18;282:2; 290:1;298:20 hearing (27) 9:10;17:11;18:11; 27:15;40:2,10,17; 60:18;64:22;66:24; 68:3;70:15,18; 136:23;146:23; 159:10;164:9;171:1; 194:14;201:6;203:14; 216:11;261:7;262:11, 13;278:23;282:9 hearings (1) 89:18 hears (1) 25:8 heart (3) 29:4:201:7:212:10 heartland (1) 29:4Heather (2)

- Vol. 3 April 29, 2024

17:21,25 heavily (7) 39:8,9;105:1;139:9; 193:20:237:20: 265:22 heavy (6) 155:1,4,6,11; 241:15:267:11 heck (3) 46:10;267:25;268:1 held (8) 8:1,12;92:2,3; 155:2,14;157:15; 208:14 hell (2) 227:9,21 Hello (8) 21:21;124:15; 131:25;168:12;173:4; 224:15;263:8;293:20 help (48) 8:9;14:24;29:21,25; 34:23;35:5;38:9,18, 19;40:5;42:16;45:23; 47:22;51:8;52:11; 61:22;74:8;76:11; 78:9;82:11;119:3; 120:6,15;123:9; 125:4,12;127:16; 150:14;160:8;168:16; 180:7;183:23;189:12; 190:20:191:13.19: 195:16;198:8;205:15; 212:21;226:9;230:19; 233:22;237:7;250:18; 291:6;300:1;301:6 helped (9) 121:25;127:23; 136:18;139:25;154:5; 217:4;247:18;260:25; 266:21 helpful (14) 59:6;73:2;86:13; 107:18;127:20;132:5; 138:2;165:3;188:11; 192:21;193:12; 203:10;204:9;293:21 helping (10) 61:1;63:25;110:4; 120:19;132:10; 191:10;196:11; 204:20:274:24: 299:20 helpline (1) 15:16 helps (1) 176:25 hemp(1) 195:2 hens (1) 177:9 herb (1) 253:25

139:20

275:17

288:3

228:20

51:10

192:3

274:12

215:24

121:24

106:7

299:12

25:6:92:4

199:8

291:15

17:14

9:7

Herbicide (1) 229:25 herbicides (2) 231:6.7 herd (1) 265:20 here's (7) 38:9:50:19:54:1; 58:20;61:22;84:7; high-risk (3) 212:9 heroes (2) 115:8:291:21 herself (1) 130:7 hillier (1) hesitancy (1) 224:6 hint (1) hey (4) 49:10;183:4; hire (3) 220:10;291:5 Hi (27) hired (3) 19:10;21:14;22:23, 25;121:15;123:13; historic (2) 173:6,7;174:13,14; 183:13;185:5,7; 206:23;223:4;226:12; 250:23,24;257:9,10; 258:12;260:9;265:9; 272:13;276:2;286:9; 290:17 history (5) hidden (1) 88:17 high (29) hit (5) 37:25;51:14;64:7.7; 66:5:116:5:120:10. 12;126:17;180:13; hits (2) 193:2;208:1;225:17; 228:20:237:17; hitting (3) 255:17,18;264:2; 266:4;267:20;268:10; Hmong (3) 277:10,12;278:5; 280:9,13;284:9; hoes (1) 288:25;289:15 higher (6) hog (1) 33:11;158:13; 189:20;200:25; hogs (1) 223:23;288:8 higher-performing (1) hold (7) 270:1 highest (7) 11:2;162:15; 225:11,13:228:25; holding (4) 229:13:236:16 high-level (1) 36:7 holds (2) highlight (7) 37:21;44:17;86:10, hole (2) 16;118:8;140:2;199:9 highlighted (2) holes (1) 88:13;208:13 highlighting (2) holistic (1) 121:11;181:15 highly (5) Holm (1) 34:11,12;38:11;

190:14:287:21 home (9) high-octane (1) 19:2:23:13:181:21: 188:4:190:11:225:16: high-performing (1) 227:18:272:16: 274:16 high-quality (3) honest (1) 266:11;287:23; 149:4 Honestly (2) 56:6;140:19 200:21;201:12; honor (7) 6:14;18:14;80:17; high-volume (1) 120:14;126:1;128:4; 241:6 honored (2) 24:18;269:16 hope (9) 16:6;26:21;102:17; 127:1;131:23;210:21; 17:6;105:8;205:18 263:2;268:11;281:13 hopeful (2) 98:13:176:5:289:10 196:9;235:1 hopefully (8) 189:8;221:25 9:12;74:8;99:19; historically (9) 173:9,15:196:17; 101:8;115:17,22; 224:18;261:6 116:8,10;137:12; hoping (4) 167:23;209:12; 150:13;226:1; 232:6;250:3 hormones (2) 26:17,19;141:6; 33:6:34:6 170:1;171:12 horrifically (1) 262:11 29:3;57:7.22; horse (1) 180:14:262:16 268:20 horticulture (1) 42:4;170:6 253:5 hospitable (1) 27:18;57:17;186:17 265:24 hospital (1) 115:25,25;116:1 130:25 host (2) 169:25:190:11 hosted (2) 118:13;301:15 hosting (1) 10:20 hot (3) 9:3;36:19;40:1; 182:20;245:11,12 58:12;187:14;214:5; hotel (3) 7:2;187:12;301:18 hotline (2) 26:20:147:23: 15:11:254:16 234:13:235:8 hotly (1) 141:20 hour (2) 132:4;217:13 37:9;237:18 hours (11) 18:18,18;59:25; 98:1;139:2;205:19; 220:4;221:23;296:7, 8.14 house (6) 119:12;126:13;

182:11:265:23; 284:14:299:16 household (1) 299:17 housekeeping (1) 6:21 houses (1) 182:20 hub (1) 126:4 huge (12) 46:18:49:3:73:8.25: 74:9;115:21;135:2; 136:25:141:9:193:15: 236:12;280:7 human (5) 219:18;240:15; 272:22;275:1;293:13 humanely (1) 121:21 Humanity (1) 95:25 humans (2) 10:13:28:18 human-scale (2) 112:25;291:18 humbled (1) 23:11 humor (1) 241:5 hunch (2) 166:9.23 hundreds (3) 106:16:287:19: 299:23 hung (2) 37:18:243:24 hunt (1) 172:21 hurt (1) 51:8 hurting (3) 217:1,16;271:5 husband (2) 22:14;124:22 HUSEMAN (20) 19:10,10;27:20; 83:13;87:9;178:18; 179:16,19,21,25; 181:3;197:23;198:1, 23;260:9,11;261:10, 13,17;262:7 hybrid (6) 286:13;287:18,25; 289:5,9,11 hydrogen (1) 301:2 hydroponic (2) 21:4;161:16 hyperlinks (1) 37:8

- Vol. 3 April 29, 2024

Ι idea (13) 24:25;25:6;26:9; 155:2;157:20;212:17; 224:2,10;226:2,25; 245:2;247:8;248:14 ideal (2) 265:19:266:1 ideally (1) 136:5 ideas (4) 221:13,17;224:10; 233:9 identifiable (2) 148:7,8 identification (1) 67:18 identified (3) 100:20;119:1; 270:12 identify (6) 119:3:140:16; 148:2.22:230:19: 284:18 identifying (7) 61:24;64:24; 145:22;148:5;156:23; 164:22;228:19 ie (3) 214:9;241:25; 297:15 ignorant (1) 76:7 ignoring (1) 256:21 ill-advised (1) 93:13 illegal (1) 229:18 Illinois (15) 99:13:100:7: 108:19;109:1,13,20; 110:8,15;111:15; 134:5;190:15;192:15, 25:193:15.17 illustrated (1) 220:6 imagery (1) 145:9 images (1) 42:12 imagine (4) 32:3;126:23; 128:18:266:17 immature (1) 255:18 immediate (3) 50:16:92:10:239:10 immediately (2) 6:22;54:8 impact (20)

Min-U-Script®

Burke Court Reporting & Transcription (973) 692-0660

(23) Herbicide - impact

14:20;21:15;24:16; 25:19:29:13:49:3.13: 50:15:51:2:90:21; 92:20;178:7;182:23; 206:13,16,18;210:4; 216:23,23;269:11 impacted (2) 29:2;298:17 impacting (2) 29:14:103:17 impacts (9) 47:11:48:9:92:10: 113:2;211:13;240:14, 16:273:23:299:19 impartiality (1) 162:21 imperative (1) 254:22 implement (7) 25:12;26:15; 139:10:189:13; 200:19;201:3;222:10 implementation (7) 27:4;67:18;83:16; 100:16;139:11; 222:24;276:25 implemented (6) 45:18;79:15,15; 138:21;156:7;254:16 implementing (7) 27:8:50:24:92:25: 102:15:203:5:211:12: 282:23 implication (1) 244:2 implications (6) 46:24;83:6;182:2; 234:3:240:15:272:20 import (54) 45:14:46:2,8,11,13, 17,20;47:1;49:18,24; 50:22;52:7,10;53:16; 54:12;55:3,12;56:2,8, 8,17,22;57:25;58:6, 21;59:14,18,22;60:8, 12;62:3,21,25;63:9, 16,20,23;67:24; 68:12;69:2;77:7,21; 81:3,9,11;82:1;83:1,3, 4;91:22,25;196:12; 200:16:201:6 importance (9) 14:14;69:5,16; 84:15;161:14;162:21; 214:13;222:6;282:22 important (69) 9:9,11;10:19;11:13, 14,17,20,23;13:8,15, 23;14:7,21;15:18; 19:3:24:24:27:13; 29:23:33:16:42:7: 47:22;62:23;71:15; 78:17;84:22;93:6;

inadequate (1) 99:10:105:20:106:12; 107:3.11.16.25: 190:24 **INC-4**(1) 114:23;125:11; 127:14:130:7:131:13: 145:13 134:22;140:3;150:5; incentive (5) 152:23;169:14; 74:15;250:6,7,8; 184:18;186:13;190:5; 297:10 incentives (2) 192:12;194:17;198:5; 247:23,24 199:4;200:22,23; 201:2,17;208:24; incentivizing (1) 211:24;213:16;221:4; 129:1 inception (1) 225:17;232:4;233:6; 246:15;252:2;255:15; 176:7 267:16;286:10;287:9; incidence (1) 290:1,15 237:17 importantly (3) incidental (1) 9:8;38:6;195:23 178:13 include (10) imported (2) 45:21;88:22; 254:6,15 importer (14) 102:24;109:24;110:4; 47:7;48:7,8,12,22, 124:11:151:10; 24:55:16:61:18.21. 277:16;283:14; 24:62:4:63:18:67:25: 291:15 69:6 included (2) importers (21) 111:1;118:17 47:3,15,16,22; includes (8) 48:17,21,25;49:2,8; 35:10;53:13;72:1; 104:23;126:3;163:12; 51:11,24;52:2,10; 53:21;62:2,6;63:11, 176:20;239:13 16,17,22;67:19 including (21) importing (3) 10:15:73:6:79:16; 54:4:79:7:257:16 113:13:144:18: imports (19) 147:14;178:16; 52:9;57:1,3,10; 190:13;202:24; 207:11;210:6;225:5; 76:21;77:10;78:11; 231:9;254:7;272:20; 79:10;184:4;187:1; 283:13:285:23; 195:24;196:8;199:7; 201:12;216:21;217:2, 291:24:292:8.16: 11,15;233:18 298:23 inclusion (1) impressed (2) 74:1:96:25 141:4 impressive (7) inclusive (1) 16:25;45:2;76:5; 247:3 77:24;96:4;98:15; income (2) 260:19;268:15 180:10 improve (9) incoming (1) 153:14,24;159:10; 63:15 189:14;201:25;211:2; incomplete (1) 223:22;262:2,3 166:16 improved (5) inconsistencies (2) 159:7;165:6; 164:11:165:11 170:10,11;202:23 inconsistent (1) improvement (8) 161:18 incorporate (1) 33:14;145:17; 153:17;201:18; 37:2 202:14;282:7;283:20; increase (17) 292:4 8:9;52:23;88:10; 91:17;103:20;112:22; improvements (2) 202:6,8 135:5;160:21;183:9, improving (2) 19,25;205:15;211:16, 164:9;261:7 16;218:14,15;252:23 inaction (1) increased (8) 13:22;35:22;45:13: 187:1

104:16:165:12; 200:22;222:11; 248:12 increases (1) 194:17 increasing (13) 45:12;46:19;114:6; 162:18:184:11; 211:13,14;213:13; 229:24,25;282:5; 291:22;292:18 Increasingly (1) 210:5 incredible (9) 16:21;26:13;42:22; 86:15;123:1;141:25; 163:25;181:15;193:9 incredibly (8) 64:7;75:22;114:21; 123:6;124:17;127:14; 200:22;211:11 incubator (1) 294:9 incubators (2) 114:5;292:23 independent (2) 94:12;286:12 Index (1) 224:21 India (1) 90:1 Indian (3) 88:10;123:12,14 Indiana (3) 100:7;190:16;298:2 indicate (2) 110:19;164:24 indicated (2) 33:7;278:21 indication (2) 250:5,5 indicator (1) 166:13 individual (6) 25:3;70:12;77:20: 142:22;151:24; 162:23 individually (2) 240:21;243:15 Individuals (1) 142:19 indoors (1) 178:11 industrial (3) 272:16;274:9,15 industries (3) 150:4,4;151:18 industry (50) 10:2,10;12:12; 13:18,23:14:3,21; 24:16,21;32:1,4; 47:14:97:24:117:18; 122:3;130:9,20,20;

- Vol. 3 April 29, 2024

144:19:153:21:156:3, 8:163:24:167:5.16: 186:20;189:9;204:6; 214:16,25;217:14; 221:25;222:21;234:8; 235:7,14;249:6; 257:12;258:15; 260:15:269:12; 270:22;284:13; 286:23;288:2,13,17; 289:15;297:2;301:16 inequitable (1) 122:6 inert (8) 162:7;184:25; 239:4;240:21;270:7, 13,19;271:17 inerts (11) 184:16,21;226:7; 254:20;255:2;269:19, 20,20,24;270:3,5 infamy (1) 98:7 infers (1) 36:1 inform (2) 111:11;221:19 informal (2) 193:18;287:1 information (54) 26:5,7:34:15:41:4; 50:23;54:17;66:1; 68:2;73:25;84:2; 88:18;92:23,23; 99:18:105:9.14; 108:11;111:15; 113:13:125:12; 139:24;150:7,8; 153:5;164:7;165:14; 166:9,16;167:24; 170:4,7,12;207:21,24; 224:23;225:24; 228:23;232:11,24; 233:7,8;237:2;238:9, 12;248:17;265:4; 278:4,21;279:5; 280:22;285:13;290:2, 13;293:21 informative (1) 118:15 informed (2) 277:17:298:14 infrastructure (11) 129:2;180:1; 181:16;186:16; 195:18,21;198:6; 202:7;262:3;284:20; 293:5 ingested (1) 273:4 Ingevity (9) 269:6,8,14,16,20; 270:17,21,24;271:20

Burke Court Reporting & Transcription (973) 692-0660 (24) impacted - Ingevity

Ingevity's (1) 270:3 ingredient (8) 148:24:149:1: 169:1;171:14,25; 179:10;180:25;218:7 ingredients (9) 216:22;239:4; 240:21;248:12;270:7. 13,16,19;271:17 initial (2) 57:9:122:16 initially (1) 133:22 **Initiative (9)** 74:13;79:1;98:9: 117:9;190:23;202:24; 203:3;259:12;280:15 initiatives (2) 106:17;113:3 innovate (1) 255:12 innovation (7) 184:19;200:12; 232:6,10;244:8; 255:1;272:23 innovations (1) 201:13 innovative (5) 144:8,11:148:3; 205:12:270:1 in-person (5) 28:13:105:12; 137:25;194:16;241:1 input (5) 35:13;36:17; 144:15:146:11; 292:11 inputs (6) 157:15:239:14; 244:10:272:19: 291:16:292:9 insane (1) 260:1 insecticides (1) 236:15 insects (1) 291:23 insert (2) 39:22;232:13 inside (8) 44:11;70:10;81:12; 176:11;179:21;180:2; 199:19:285:23 Insider (1) 17:20 insight (4) 79:5;136:14; 139:18;173:25 insights (2) 230:2;236:23 inspect (1) 36:1

inspected (3) 33:5:35:11.24 **Inspection (8)** 78:6;92:19;109:16; 111:7;164:20;201:13; 209:6.8 inspections (2) 36:2:207:12 inspector (5) 12:16:117:15; 124:20;125:5;256:25 inspectors (4) 35:25;68:7;98:6; 283:1 inspire (2) 108:14;117:21 inspiring (4) 118:16;132:19; 139:21;142:1 instance (4) 37:19;224:5; 275:10;297:10 instances (6) 71:11:180:23; 182:9;190:16;192:17; 242:23 instantaneous (1) 232:14 instead (2) 45:11:162:23 Institute (4) 94:12:109:9.12: 189:4 Institute's (1) 189:10 institutionalize (1) 160:25 institutions (1) 211:18 instruction (1) 173:24 instructional (1) 110:21 insurance (11) 72:8,8,9;140:9; 161:3;194:19;195:3; 202:5;277:5;279:21; 280:10 insured (1) 280:7 insurers (1) 278:7 intakes (1) 106:24 integral (2) 123:20,23 integrated (2) 113:8;126:3 integrating (3) 64:2;126:17;189:21 integration (1) 187:17 Integrity (31)

44:9;48:24;55:2,14; 56:5:61:18.23:62:17: 64:15,17:66:1,7,11; 68:23;72:4,10;79:18; 80:8,25;82:9;87:1; 97:21;162:24;168:2, 25;183:9;199:11; 201:1,14:239:9; 283:22 intended (3) 157:3;246:24; 293:12 intention (1) 247:4 intentional (6) 148:23;154:8; 239:22;240:17;242:4, 5 intentionally (6) 148:16,17;149:13, 19;178:15;242:21 interact (1) 223:14 interaction (1) 116:13 interactions (2) 226:24;262:23 interconnected (1) 281:25 interest (21) 20:11,18:21:10; 57:3:70:22:87:22.24: 108:14:110:23.25: 111:5:135:8:138:14: 150:13;195:24;203:9; 228:6;232:18;233:1; 274:19:281:12 interested (15) 15:16;41:25;44:14; 57:21:58:17:70:11; 74:6;78:12;104:24; 107:23;116:2;124:23; 134:21;135:10; 201:25 interesting (11) 33:24;57:18;70:6; 112:21;153:21;175:7; 177:4;192:25;212:25; 280:1;290:18 interests (5) 7:25:8:7:96:8: 238:10:283:13 interface (3) 69:5;80:15;186:17 internal (2) 207:2;277:19 internally (2) 37:1:41:25 international (7) 14:19:89:7.14; 169:3:175:3:181:12: 299:25 internationally (3)

22:15;154:22; 257:21 interrupt (1) 197:7 intersection (1) 99:15 intersectionality (1) 88:21 intervals (1) 269:22 interviews (1) 106:24 intimidated (1) 235:19 into (94) 26:21;27:11;28:1; 29:9;32:9,20;35:13; 37:2;41:1;42:7;44:1, 9;47:25;48:5;49:6; 50:13;51:25;52:1,24; 55:12,17;56:3,14,18; 57:13;59:16;62:14; 63:17;65:23;68:10, 11,22;70:21;71:8; 74:2;76:22,24;77:5; 78:13,18;79:5,7,17; 83:10;85:18;87:17; 90:14;96:19;102:1, 10;104:8;105:25; 107:16,17:115:19; 117:18:118:24; 127:24:138:1.2: 139:24:140:21; 147:16;150:6;153:11; 156:5;157:19;160:25; 161:23;167:20;177:8; 178:16;180:25;181:9; 206:3,14;214:15; 216:13;218:16; 222:12;227:14;229:4; 231:17:240:13: 247:20:257:16,17; 266:8,23;267:5,25; 273:24;275:9;299:10 in-transition (1) 183:25 introduce (12) 7:5,8,21;18:17; 19:6;22:1,22;68:9; 95:9,17,21;183:4 introduced (1) 45:19 introducing (1) 30:13 introduction (4) 9:1;16:15;71:14; 246:8 introductions (3) 7:10;16:8;18:23 invalid (5) 55:10,10;56:16; 67:20;83:2 invaluable (1)

- Vol. 3 April 29, 2024

122:16 inventory (1) 195:14 invertebrate (1) 178:12 investigate (2) 83:4;207:14 investigated (2) 92:7;273:11 investigations (2) 91:16;226:22 investing (2) 13:13;232:19 investment (3) 104:16;196:12; 213:13 investments (1) 13:23 invests (1) 13:18 invisible (1) 265:21 invite (3) 81:9;94:18;133:15 invited (1) 301:15 inviting (3) 66:10;124:12;126:2 involve (1) 89:18 involved (6) 12:9:32:16:94:17: 113:5;136:11;206:7 involvement (1) 21:2 involves (4) 71:20,21;119:23; 292:7 inward (1) 208:16 **IOA** (4) 106:16.21:108:13; 191:16 Iowa (36) 22:10;96:14;99:11; 100:6;104:8,10,14,15, 20;106:5,21;107:13, 20;108:5;121:12,17, 23;122:1,10,14,18; 123:15;124:3;134:14, 18:139:22:189:5: 190:9,10,12;192:24; 194:1,20,22;195:8; 204:1 irks (1) 215:22 ish (1) 69:19 Islanders (1) 88:11 **ISO**(1) 151:19 isolate (1)

Spring 2024 Meeting	1	T	T	April 29, 2024
278 14	102,10,12	207.22.24.208.5	\mathbf{V}_{-4}	10.10
278:14	123:12,13	297:22,24;298:5;	Kate (9)	19:10
isolation (1)	Jeff (1)	300:18;301:11	188:24;194:10;	kind (95)
151:23	286:9	JOIA (3)	200:4,7;202:19,21;	9:1;14:14;17:14;
issuance (1)	JEFFERY (14)	121:14,16;124:3	203:12;204:19;	30:18;46:23;48:16;
57:16	21:21,22;27:20;	join (4)	206:20	50:6;53:5;54:6,17;
issue (24)	30:4;149:24;150:19,	19:4;23:6;130:23;	keep (35)	55:24;57:11;58:17,
58:6;63:6;69:2;	24;151:2,5,12;	301:24	11:10,10;13:11;	24;59:4,6;62:14;63:1;
135:4;144:11;164:13,	243:22;245:16;265:9;	joined (3)	22:17;29:21,21;	64:5;68:17;69:3;
15,17,18;165:2;	281:11	17:7;95:24;132:2	39:21;40:2;42:1;	70:11,22;71:6,18;
170:6;207:14;240:19;	Jeffrey (3)	joining (11)	43:10,10;44:16;50:6;	73:12;76:9;78:10;
	276:1;281:18;286:5	18:25;19:1;27:24;	61:25;90:11;113:19;	
254:21;286:16,21;				79:23;80:14,17;82:7;
287:3,4,10;288:20;	Jennifer (2)	146:19;166:4;173:8;	115:15;139:1;143:15;	84:5;87:24;88:2,3;
290:1;292:20;300:14,	6:10;8:25	196:22;199:2;203:12;	161:24;170:21;	94:6,18;95:18;96:19;
15	Jenny (20)	216:10;269:14	173:18;175:10,14;	113:11;114:7;115:4;
issued (4)	23:23;27:6;30:9;	joke (6)	201:23;211:10;222:1,	116:19;122:24;125:7;
49:24;55:14;56:23,	40:16;41:6;73:21;	168:20;170:15;	2;233:25;234:2;	127:5;136:8,16,21;
23	76:4;78:16,22;83:10,	173:9,10;241:6;	238:3,8;247:4;265:3;	137:14,25;140:8;
issues (19)	14;86:7,10;90:19;	297:24	268:16	150:21;153:7;154:7;
8:2;21:13;29:14;	93:10,23;95:9;98:8;	jokes (2)	keeping (13)	155:24,24;159:18,20;
99:21;107:3;142:24;	99:2;216:18	239:7;246:5	37:25;45:15;71:16;	166:19,25;167:14;
182:22;183:13;	Jenny's (2)	jokingly (1)	109:16;120:16;149:4;	175:13;178:19;180:8;
187:16;208:19,19;	196:9;254:4	209:4	165:24;184:17;	181:6;187:11;205:22;
217:9;228:13;237:7;	Jerry (15)	journey (2)	219:12;222:11;	206:1;214:12;215:22;
254:18;269:11;	20:25;22:11;27:21;	118:11;267:10	234:18;243:19;293:6	223:7,13;226:1,8;
272:20;276:11;	38:24;40:1;41:11;	joy (1)	Kelly (10)	231:13;233:19;238:4,
299:19	93:7,19;128:7;	24:10	194:11;200:5;	8,11;242:7;245:13;
issuing (1)	131:24;167:8;187:5;	judge (1)	206:21,23;209:1;	246:22;250:3,4,13;
66:3	219:24;220:13;	89:18	210:17;212:7;213:19;	251:12;256:11,19;
It's (1)	235:18	juggle (1)	214:4;218:15	262:24;268:21;
154:15	Jesse (1)	120:14	Kentucky (17)	275:11;290:10;
Italy (3)	118:1	juggling (2)	99:17;100:7;112:4,	300:12
56:11;217:2,10	Jessica (3)	120:2,5	5;117:4,6,14;118:12;	kinds (8)
item (5)	120:2,8,15	juices (1)	119:9;120:9,23;	46:3;64:12;150:2;
148:3;152:1;157:1,	Jesus (1)	229:22	121:4;129:25;130:5,	211:5;247:14,14,15;
8;278:25	41:7	jump (3)	12,14,17	279:17
items (8)	Jo (9)	27:12;91:16;116:16	Kentucky's (1)	knew (6)
25:14;30:15;145:1,	17:17,17,20;32:14;	jumped (1)	117:24	33:2,4,5;34:7,8;
1;147:4,6;159:4;	72:21,22;73:1,14,16	136:20	Kenya (8)	266:22
166:12	job (22)	jumps (2)	99:17;117:4,6,8;	knowing (4)
iteration (2)	9:3;12:2;17:18;	177:3;228:17	121:10;129:19,23,23	24:14;44:14;123:3;
25:15;86:16	22:18,18;30:21;	juncture (1)	kept (1)	124:5
iterative (1)	40:23;73:14,15;	282:2	264:3	knowledge (9)
84:5	96:19;97:1;183:7;	June (2)	key (9)	106:12,18;124:2;
	196:11;199:17;201:7;	80:12,19	18:6;30:22;42:25;	127:8,14;136:19;
J	214:4;219:12;241:20;	junkies (1)	61:13;66:3,15;	138:7;288:2;294:4
	246:6;265:4;279:18;	227:7	112:13;113:22;147:4	known (5)
Jacqueline (5)	285:13	jurisdiction (3)	kick (5)	9:14;10:3;43:24;
99:12;108:19,21,	jobs (1)	81:16,18;82:7	66:21;90:8,9,10;	203:5;239:1
24;111:18	104:2	jurisdictions (1)	148:20	knows (3)
jail (1)	Johanna (1)	267:11	kicked (8)	25:9;135:12;167:22
35:19	174:3	Justice (1)	66:20;90:3,6,13,13;	Kratzer (1)
James (3)	John (7)	8:17	117:24;129:5;147:18	143:19
253:22;258:10;	185:17,22;238:17;	justified (1)	kicking (1)	Kumar (1)
		162:6	90:2	17:21
263:6	246:2,10;250:23;			
January (8)	253:19	justify (1)	kidding (1)	kumquats (2)
52:21;102:7;	JOHNSON (29)	196:4	231:25	250:3,4
106:23,23;117:22,24;	20:10,11;73:24;	Justin (1)	kids (3)	Kyla (22)
132:21;147:17	121:14,15,15;129:22;	17:2	126:11,13;227:25	7:8,9;18:15,16,16,
Japan (1)	132:17;146:1,13,16;		Kim (9)	21;23:7,16;28:24;
56:24	153:2;174:14,18;	Κ	19:7,9;27:20;83:12;	29:8;42:21;78:21;
Jared (3)	202:20;212:7;228:10,		90:23;178:17;181:7;	83:13;89:1;139:17;
17:12,12,13	22;230:8,12;243:2;	kale (1)	197:22;260:8	146:18;213:20;216:9;
JEAN (2)	286:7;291:9;294:22;	253:10	Kimberly (1)	232:2;238:14;241:6;
		· -	• ` `	- , , 0,

- Vol. 3 April 29, 2024

Spring 2024 Meeting				April 29, 2024
248:9	57:1,10	lasted (2)	96:6;112:7;122:15;	254:14
	landed (1)	132:3;295:19	123:1;124:8;132:25;	letter (1)
\mathbf{L}	40:20	Lastly (3)	136:2;204:12	144:3
	landfill (1)	27:17;103:4;255:16	learned (8)	letters (4)
La (1)	145:9	lasts (3)	48:15;53:17;71:4;	51:23;52:2;53:25;
95:25	landfilled (2)	296:6,8,14	74:23;76:17;82:22;	61:20
lab (1)	273:17,21	late (1)	122:4;123:7	level (28)
232:8	landfills (3)	268:21	learning (20)	18:9;37:25;38:4;
label (44)	145:11;267:24;	later (6)	17:24;19:23;27:6;	46:5;52:12;57:21,22;
31:25;32:8,11,25;	273:19	70:15,19;73:11;	44:9;51:16;59:1;	65:21,23;70:20;89:7;
33:2,9,15,19,23;34:9,	land-focus (1)	121:5;146:23;257:4	61:15,17;71:16;	90:7;114:18;117:10;
11,14,18,19;35:10,16,	209:14	laugh-o-meter (1)	111:5;122:7,12,19,25;	148:21;154:8;155:2,
16;38:12,20,21;41:2;	landlords (1)	173:13	123:4;212:16;240:14;	11;184:1;207:6;
65:4,7,10,10,11,17,19, 10:85:6:147:20:	110:1 landowner (1)	laugh-o-meters (1) 173:17	289:13,16,16	208:1;229:13;231:3, 3;245:9;278:9;284:9,
19;85:6;147:20; 157:3;159:18;166:20;	300:23	launch (2)	least (14) 35:25;116:4,9;	5,245.9,278.9,284.9, 11
167:10,11,13,17,25;	landowners (3)	106:22;133:19	135:24;139:3;208:1;	leveling (1)
178:7;183:25;212:5;	299:18;300:2,18	launching (2)	232:12;248:9,14;	290:5
283:22;293:17	landscape (2)	102:10;213:6	257:20;261:1;278:22;	levels (8)
labeled (2)	31:25;50:6	Lauren (4)	299:4,17	13:20;46:24;59:4;
147:5,9	language (10)	263:7;269:1;	leave (3)	221:25;228:5,20;
labeling (11)	36:4;37:25;39:19;	272:11,13	135:20;248:21;	231:11;234:25
147:10,14,14,19;	45:23;46:4;116:1;	law (11)	254:7	levers (2)
148:6;156:2,5,7;	149:9;205:24;206:1;	35:11,15,20;76:22;	leaves (1)	89:6,9
157:1,2,7	298:24	89:18;144:17;180:14;	265:16	levy (1)
labels (11)	lap (1)	236:13;256:17;265:2;	leaving (4)	35:18
32:3,6,6;166:13,15,	39:16	279:24	41:8;88:4,5;231:10	LEWIS (16)
18;167:19,20,23;	large (6)	laws (6)	led (5)	20:5,5;23:14,16;
168:5;172:20	21:17;96:10;212:3;	77:10;144:11,12;	7:24;31:13;190:15;	40:7;147:23;209:10;
labor (1)	273:7;286:12;288:6	147:8,14;160:1	270:24;299:10	226:12;241:20;
217:12	largely (2)	lay (1) 87:21	left (3)	248:23;266:15,17;
laboratory (1) 151:23	101:10;274:18 larger (2)	87:21 layer (1)	47:3;57:6;232:22 legacy (2)	267:6,9;278:20; 279:18
labs (1)	212:2;254:11	83:5	62:9,12	LFPA (1)
153:19	large-scale (1)	laying (1)	legal (4)	115:7
Lacey (2)	272:25	177:9	144:3;160:9;	liaison (3)
77:3,8	largest (3)	leach (2)	178:14;278:10	29:19;130:14;
lack (13)	113:16;214:19;	255:19;266:7	legislature (2)	136:17
54:25;129:2;141:7;	218:23	lead (10)	8:15;13:8	liberal (1)
157:2;195:10,18,23;	LaRocca (12)	7:10;10:10;74:22;	legitimacy (1)	155:5
198:16;207:22;248:6;	200:5;206:21;	95:9,17;98:10;99:18;	300:14	license (2)
255:14;286:21;293:3	213:21,24,24;214:1;	141:6;174:4;191:3	legitimate (2)	60:15;61:8
lacked (1)	216:25;217:23;218:2,	leader (1)	62:16;300:6	licensed (4)
124:1	13;219:9;220:13	75:14	legs (2)	46:6;60:14;63:24;
lacking (2)	larvae (1)	leaders (6)	99:15;210:21	77:16
106:13;219:14	177:19	29:16;105:17,21;	Lehman (15)	lidocaine (1)
LaFollette (1)	last (49)	131:14;205:17;206:4	99:11;104:7,10,11;	296:17
8:21	20:19;21:7,16;23:5;	leadership (9)	134:14;136:5;175:21;	lie (2)
lag (3) 57:8;59:24;60:5	43:21;44:12;52:25; 53:3,5;59:13,15;84:6;	8:1,13;13:22;19:19; 28:25;96:1;104:13;	183:3;188:23;189:3, 3;191:20;192:7,16;	27:25;120:4 life (9)
laid (1)	87:4;103:4;106:5;	201:4;205:15	193:14	29:9;30:3;47:10;
105:25	107:14;113:7;118:11;	leading (5)	lending (1)	120:1;135:4;180:18,
lambing (1)	123:24,25;126:5,24;	101:17;105:11;	232:3	24;230:23;298:17
118:19	129:19;139:12;	143:25;147:16;177:1	length (3)	lifetime (4)
Land (24)	140:13,13;143:23;	leads (10)	37:1;244:1;247:6	128:4;177:14;
99:13;108:19,21,	144:6;145:12;153:6;	7:6,22;75:8,17;	lens (1)	212:19;298:8
25;112:24;123:14,17;	164:17;216:25;	98:19;100:12;103:3;	131:22	lift (2)
126:20;135:9;208:8,	221:24;225:3,4;	107:15;138:22;	less (11)	73:8;80:17
9,11,21;209:16;	232:23;237:9;248:2;	191:18	34:7,10;133:20;	lifted (1)
210:2;230:6;239:25;	249:22;260:4;282:14;	leaned (1)	138:6;169:11;184:5;	43:2
240:18;258:16,17,18;	286:6,22;287:2;	139:9	259:22;262:18;	lifting (1)
292:23;298:20;299:1	294:21;297:22;298:8;	learn (11)	280:11,11;296:12	241:15
land-based (2)	299:14;300:22	16:5;70:25;83:6;	lessen (1)	light (3)

71:18:167:7:188:14 lightly (1) 265:3 lightweight (1) 71:18 likely (3) 11:13;52:20;296:13 limit (2) 119:23;149:18 limitation (1) 180:12 limitations (4) 82:6;165:10,10; 271:5 limited (2) 179:11;190:7 limiting (3) 252:16,16;274:17 line (15) 25:20;48:14;59:3,8; 60:25;63:21;84:20; 86:20;188:5;236:18; 242:3;244:21,24,24, 25 lined (1) 139:6 liners (2) 217:22;242:1 lines (3) 136:25:178:25; 301:4 link(3)44:12;127:15; 228:23 linked (2) 80:5;130:12 LinkedIn (1) 96:3 linking (3) 160:2;205:16;228:4 links (2) 176:12:301:23 Lipson (11) 226:4;269:2; 272:11;276:1,2,2; 278:5,7;279:8;280:3; 281:15 liquid (2) 177:21;249:25 List (47) 26:17;49:10;57:12, 21;66:7;68:19,20; 69:19;94:4;144:4; 161:24;166:18; 167:25;169:15; 171:23;172:5;174:10; 175:8,15;183:16; 190:17;231:22; 240:20,22;243:8; 247:2,3;251:4;252:6, 7;255:4,9,24;256:3, 15,16,16;258:2; 260:2;270:16;271:9,

18;272:1.3;280:19; 295:12.25 lives (3) listed (8) 62:24;72:4,9;111:1; 164:22;168:5;264:5,6 listen (3) 16:3;163:2;263:23 listened (1) LLC (1) 96:15 listening (8) 77:21 7:14;9:10;104:1; load (1) 195:19 160:25;221:16,23; 228:11;235:23 loaded (1) listing (3) 237:20 243:4,13,15 loan (1) 195:14 listings (5) 68:24;72:5;168:25; loans (1) 243:11;266:19 195:16 lists (5) local (16) 58:18,18,19;94:3; 272:2 listserv (1) 282:13 literally (4) 47:23;182:11; 218:23;225:10 284:13 literature (1) locally (2) 275:2 little (74) located (5) 6:21;9:12,23,24; 10:9:11:9.10:16:5.6. 298:16 17.21:21:11:25:16: 30:12:32:14,19; 34:23;37:6;40:11; 53:4;55:21;59:9,24; 63:12;72:22;73:17; 165:4 75:5,13:81:15:87:14; Logan (8) 99:5,7,14,23;101:9; 105:6;106:3;112:13; 129:20:136:14; 137:10;138:1;142:3; 165:24 153:5;155:21;163:6; logistic (1) 172:11;174:22; 51:10 177:21;178:21; 193:12;196:25; 209:25;210:15; 211:21;215:22; 217:25;218:9,20; 219:14;244:8;248:5, $\log (1)$ 11;250:13,13;253:9; 159:20 257:13;258:14; long (26) 264:10;281:13; 288:24;294:2,4; 301:13 live (14) 28:16;61:7;80:12; 96:9;98:4,7;110:21; 112:1,6;123:18; 230:23,23;231:1; 235:6 longer (8) lived (1) 22:14 livelihood (2)

30:3:299:4 29:4;123:18;298:18 livestock (11) 25:20,20;109:22; 189:21;210:4;213:3; 247:15;261:17; 291:24;296:2;297:1 8:3;14:19;75:7,25; 76:2;112:25;114:4; 121:19;126:17;127:6; 195:5,6,16;196:1; 241:2;293:10 localized (1) 112:23;190:21 20:21:97:25; 121:16;137:24; location (3) 19:8:82:24:210:10 locations (1) 19:2;22:22,25;43:4; 185:4,5,5;250:19 Logan's (1) logistical (2) 179:25;198:21 logistics (5) 28:16;118:17; 133:2;198:7;284:9 9:3;17:8;25:4,10; 31:3;39:6;44:10; 45:10;53:22;66:25: 81:23;83:8;90:20; 152:14;169:25;209:3, 3;218:13,14;225:3; 233:25;234:7;235:1; 246:8;254:21;256:20 26:6;50:17;57:4; 63:12;73:17;166:17; 253:9;269:22

longstanding (1) 248:20 long-term (1) 118:18 longtime (1) 213:25 look (55) 7:4,20;13:24;27:14; 28:19;30:7,16;37:17; 41:2,13;44:14;58:20; 72:13;88:4;90:5,12; 96:2;101:22;103:13, 20:108:15:129:11: 140:4;141:2;144:23; 150:10;168:1;171:18, 18;177:1;203:8; 206:3;208:16,18; 211:19;212:25;214:7; 215:5,6;221:14,20; 222:24;234:16; 236:16:238:5:258:2; 259:20,21;261:24; 262:1,4,15;264:7; 281:15;287:6 looked (9) 32:9;86:24;115:18; 116:3;174:25;264:8; 265:19;277:7;287:10 Looking (43) 20:15:54:9:55:24; 57:9;70:4;87:11;88:9; 102:4:105:9:106:25. 25:116:12:124:8; 134:18:140:8:148:15. 20;152:23;153:18; 154:7;166:11,20; 172:1,9;173:22; 199:7,7;202:10; 206:12;210:8;211:20, 25;237:19;244:4,6; 265:15;266:3;267:19; 276:22;284:8;285:14, 15;294:12 looks (11) 28:10;57:22;66:10; 106:4;116:8;126:9, 12;140:24;141:5; 212:17,18 loop (6) 159:20;239:20; 242:7,8;252:12;285:3 Lord (1) 184:9 Lori (8) 111:19,20;117:3; 281:19;286:6;291:8, 10;294:18 Los (1) 122:2 lose (8) 58:6;60:14,15,16, 17;145:3;299:5; 300:21

- Vol. 3 April 29, 2024

losing (2) 88:6;259:23 loss (8) 208:11,11;277:9, 11;278:3;279:23; 280:9,13 lost (5)119:12;127:13; 209:13;233:20; 300:21 lot (153) 9:20;10:6,7,16,18; 12:3;13:13;14:5,17, 21;16:24;19:23; 20:13;26:20;27:6,25; 28:4;30:24;32:7,9; 33:9,13,13,14,19; 37:7,14;41:4,22; 43:25;44:19;45:21; 46:24;47:6,15;48:17; 50:14,17;51:1,4,9,16, 17;52:12,18,23;53:17, 20,23;57:3;60:17; 62:6;65:4;67:2;68:15; 69:21;70:17;73:5,7, 15,18;75:6,24;76:17; 79:16;80:3,18;82:5, 24;87:6;88:20,21; 89:19;91:5,6,7;96:1, 3:102:11:103:19: 104:25;107:22;108:5; 113:5,8;114:11; 116:1,25;124:15; 125:1;127:9;131:20; 132:9;133:10;134:23, 23;135:22;136:15; 139:9:140:12,14; 149:25;152:6,15; 154:6,9,24;156:20,25; 157:20:167:3.5; 175:9:181:12.17: 184:13;201:18;203:9; 210:3;211:4,5; 212:12;215:19; 216:13;218:8;220:9; 223:14;224:9;227:9; 228:12;234:23; 235:21,24;237:13; 238:7,13;244:14; 246:9;247:18,23,25; 248:8;258:4;262:20; 278:12;280:8;281:7; 285:22;288:13;290:1, 2;294:7,13 lots (10) 9:17;31:9;51:14,14, 14,15;53:20;63:16; 73:13:81:6 loud (2)20:23:256:7 Lounge (1) 301:18 love (12)

Min-U-Script®

Burke Court Reporting & Transcription (973) 692-0660

1 8 8	
112:17;125:4,4,20;	main (11)
129:19,24;131:14;	21:12;35:
133:4;216:8;221:11;	74:11;138
223:24;227:13	223:18;24
low (9)	274:17;27
16:12;85:18;	286:12
180:14;231:11;	Maine (2)
262:14;265:12;266:6,	242:15;24
12;267:17	mainly (1)
lower (2)	57:1
34:12;269:22 lowering (1)	maintain (3 164:8;165
268:17	164.8,10.
lowest (3)	maintained
153:10;225:13;	265:23
244:17	maintains (
low-risk (1)	12:25
200:23	major (4)
luck (2)	101:24;2
121:11;246:1	227:17;27
lucky (3) 20:21;32:23;75:22	majority (3 176:17;18
luminaries (1)	212:13
126:1	makeover (
lump (1)	276:19
248:8	makers (1)
lunch (5)	214:11
118:17;142:2,3,6,9	makes (10)
lysine (1)	15:19;53:
176:25	229:9;249
	266:8;271
Л	
Μ	296:16
	296:16 making (26
Mac (1) 118:1	296:16
Mac (1) 118:1 macro/micro (1)	296:16 making (26 17:15;26: 33:21;42: 48:12;53:
Mac (1) 118:1 macro/micro (1) 232:14	296:16 making (26 17:15;26: 33:21;42: 48:12;53: 63:21;73:
Mac (1) 118:1 macro/micro (1) 232:14 Madam (1)	296:16 making (26 17:15;26: 33:21;42: 48:12;53: 63:21;73: 80:15;94:
Mac (1) 118:1 macro/micro (1) 232:14 Madam (1) 170:16	296:16 making (26 17:15;26: 33:21;42: 48:12;53: 63:21;73: 80:15;94: 136:10;14
Mac (1) 118:1 macro/micro (1) 232:14 Madam (1) 170:16 made- (1)	296:16 making (26 17:15;26: 33:21;42: 48:12;53: 63:21;73: 80:15;94: 136:10;14 155:14;17
Mac (1) 118:1 macro/micro (1) 232:14 Madam (1) 170:16 made- (1) 169:15	296:16 making (26 17:15;26: 33:21;42: 48:12;53: 63:21;73: 80:15;94: 136:10;14 155:14;17 200:13;20
Mac (1) 118:1 macro/micro (1) 232:14 Madam (1) 170:16 made- (1) 169:15 made-with (6)	296:16 making (26 17:15;26: 33:21;42: 48:12;53: 63:21;73: 80:15;94: 136:10;14 155:14;17 200:13;20 223:23;20
Mac (1) 118:1 macro/micro (1) 232:14 Madam (1) 170:16 made- (1) 169:15	296:16 making (26 17:15;26: 33:21;42: 48:12;53: 63:21;73: 80:15;94: 136:10;14 155:14;17 200:13;20
Mac (1) 118:1 macro/micro (1) 232:14 Madam (1) 170:16 made- (1) 169:15 made-with (6) 169:16;171:13,24; 172:2;175:10,17 Madison (5)	296:16 making (26 17:15;26: 33:21;42: 48:12;53: 63:21;73: 80:15;94: 136:10;14 155:14;17 200:13;20 223:23;20 276:24 malic (1) 214:8
Mac (1) 118:1 macro/micro (1) 232:14 Madam (1) 170:16 made- (1) 169:15 made-with (6) 169:16;171:13,24; 172:2;175:10,17 Madison (5) 8:22;24:2;125:25;	296:16 making (26 17:15;26: 33:21;42: 48:12;53: 63:21;73: 80:15;94: 136:10;14 155:14;17 200:13;20 223:23;23 276:24 malic (1) 214:8 malign (1)
Mac (1) 118:1 macro/micro (1) 232:14 Madam (1) 170:16 made- (1) 169:15 made-with (6) 169:16;171:13,24; 172:2;175:10,17 Madison (5) 8:22;24:2;125:25; 126:4,14	296:16 making (26 17:15;26: 33:21;42: 48:12;53: 63:21;73: 80:15;94: 136:10;14 155:14;17 200:13;20 223:23;24 malic (1) 214:8 malign (1) 142:21
Mac (1) 118:1 macro/micro (1) 232:14 Madam (1) 170:16 made- (1) 169:15 made-with (6) 169:16;171:13,24; 172:2;175:10,17 Madison (5) 8:22;24:2;125:25; 126:4,14 Madness (1)	296:16 making (26 17:15;26: 33:21;42: 48:12;53: 63:21;73: 80:15;94: 136:10;14: 155:14;17 200:13;20 223:23;24 malic (1) 214:8 malign (1) 142:21 man (3)
Mac (1) 118:1 macro/micro (1) 232:14 Madam (1) 170:16 made- (1) 169:15 made-with (6) 169:16;171:13,24; 172:2;175:10,17 Madison (5) 8:22;24:2;125:25; 126:4,14 Madness (1) 118:19	296:16 making (26 17:15;26: 33:21;42: 48:12;53: 63:21;73: 80:15;94: 136:10;14 155:14;17 200:13;20 223:23;26; 276:24 malic (1) 214:8 malign (1) 142:21 man (3) 40:23;96:
Mac (1) 118:1 macro/micro (1) 232:14 Madam (1) 170:16 made- (1) 169:15 made-with (6) 169:16;171:13,24; 172:2;175:10,17 Madison (5) 8:22;24:2;125:25; 126:4,14 Madness (1) 118:19 Maggie (1)	296:16 making (26 17:15;26: 33:21;42: 48:12;53: 63:21;73: 80:15;94: 136:10;14 155:14;17 200:13;20 223:23;24 malic (1) 214:8 malign (1) 142:21 man (3) 40:23;96: manage (8)
Mac (1) 118:1 macro/micro (1) 232:14 Madam (1) 170:16 made- (1) 169:15 made-with (6) 169:16;171:13,24; 172:2;175:10,17 Madison (5) 8:22;24:2;125:25; 126:4,14 Madness (1) 118:19 Maggie (1) 119:19	296:16 making (26 17:15;26: 33:21;42: 48:12;53: 63:21;73: 80:15;94: 136:10;14 155:14;17 200:13;20 223:23;26: 276:24 malic (1) 214:8 malign (1) 142:21 man (3) 40:23;96: manage (8) 51:5,6;14
Mac (1) 118:1 macro/micro (1) 232:14 Madam (1) 170:16 made- (1) 169:15 made-with (6) 169:16;171:13,24; 172:2;175:10,17 Madison (5) 8:22;24:2;125:25; 126:4,14 Madness (1) 118:19 Maggie (1)	296:16 making (26 17:15;26: 33:21;42: 48:12;53: 63:21;73: 80:15;94: 136:10;14 155:14;17 200:13;20 223:23;24 malic (1) 214:8 malign (1) 142:21 man (3) 40:23;96: manage (8)
Mac (1) 118:1 macro/micro (1) 232:14 Madam (1) 170:16 made- (1) 169:15 made-with (6) 169:16;171:13,24; 172:2;175:10,17 Madison (5) 8:22;24:2;125:25; 126:4,14 Madness (1) 118:19 Magie (1) 119:19 Magic (2) 118:10,21 magnificently (1)	296:16 making (26 17:15;26: 33:21;42: 48:12;53: 63:21;73: 80:15;94: 136:10;14 155:14;17 200:13;20 223:23;24 276:24 malic (1) 214:8 malign (1) 142:21 man (3) 40:23;96: manage (8) 51:5,6;14 186:16;2: 262:24;20 managed (2)
Mac (1) 118:1 macro/micro (1) 232:14 Madam (1) 170:16 made- (1) 169:15 made-with (6) 169:16;171:13,24; 172:2;175:10,17 Madison (5) 8:22;24:2;125:25; 126:4,14 Madness (1) 118:19 Magie (1) 119:19 Magie (2) 118:10,21 magnificently (1) 40:18	296:16 making (26 17:15;26: 33:21;42: 48:12;53: 63:21;73: 80:15;94: 136:10;14 155:14;17 200:13;20 223:23;24 276:24 malic (1) 214:8 malign (1) 142:21 man (3) 40:23;96: manage (8) 51:5,6;14 186:16;2: 262:24;20 managed (2 248:15;29
Mac (1) 118:1 macro/micro (1) 232:14 Madam (1) 170:16 made- (1) 169:15 made-with (6) 169:16;171:13,24; 172:2;175:10,17 Madison (5) 8:22;24:2;125:25; 126:4,14 Madness (1) 118:19 Magie (1) 119:19 Magie (2) 118:10,21 magnificently (1) 40:18 magnifying (1)	296:16 making (26 17:15;26: 33:21;42: 48:12;53: 63:21;73: 80:15;94: 136:10;14 155:14;17 200:13;20 223:23;24 276:24 malic (1) 214:8 malign (1) 142:21 man (3) 40:23;96: manage (8) 51:5,6;14 186:16;2: 262:24;20 managed (2 248:15;29 management
Mac (1) 118:1 macro/micro (1) 232:14 Madam (1) 170:16 made- (1) 169:15 made-with (6) 169:16;171:13,24; 172:2;175:10,17 Madison (5) 8:22;24:2;125:25; 126:4,14 Madness (1) 118:19 Maggie (1) 119:19 Maggie (2) 118:10,21 magnificently (1) 40:18 magnifying (1) 67:14	296:16 making (26 17:15;26: 33:21;42: 48:12;53: 63:21;73: 80:15;94: 136:10;14 155:14;17 200:13;20 276:24 malic (1) 214:8 malign (1) 142:21 man (3) 40:23;96: manage (8) 51:5,6;14 186:16;2: 262:24;20 managed (2 248:15;29 managemen 15:1;31:9
Mac (1) 118:1 macro/micro (1) 232:14 Madam (1) 170:16 made- (1) 169:15 made-with (6) 169:16;171:13,24; 172:2;175:10,17 Madison (5) 8:22;24:2;125:25; 126:4,14 Madness (1) 118:19 Maggie (1) 119:19 Maggie (2) 118:10,21 magnificently (1) 40:18 magnifying (1) 67:14 magnitude (1)	296:16 making (26 17:15;26: 33:21;42: 48:12;53: 63:21;73: 80:15;94: 136:10;14 155:14;17 200:13;20 223:23;20 276:24 malic (1) 214:8 malign (1) 142:21 man (3) 40:23;96: manage (8) 51:5,6;14 186:16;22 262:24;20 managed (2 248:15;29 management 15:1;31:9 73:14;96:
Mac (1) 118:1 macro/micro (1) 232:14 Madam (1) 170:16 made- (1) 169:15 made-with (6) 169:16;171:13,24; 172:2;175:10,17 Madison (5) 8:22;24:2;125:25; 126:4,14 Madness (1) 118:19 Maggie (1) 119:19 Maggie (2) 118:10,21 magnificently (1) 40:18 magnifying (1) 67:14 magnitude (1) 50:15	296:16 making (26 17:15;26: 33:21;42: 48:12;53: 63:21;73: 80:15;94: 136:10;14 155:14;17 200:13;20 223:23;20 276:24 malic (1) 214:8 malign (1) 142:21 man (3) 40:23;96: manage (8) 51:5,6;14 186:16;22 262:24;20 managed (2 248:15;29 management 15:1;31:9 73:14;96: 107:19;10
Mac (1) 118:1 macro/micro (1) 232:14 Madam (1) 170:16 made- (1) 169:15 made-with (6) 169:16;171:13,24; 172:2;175:10,17 Madison (5) 8:22;24:2;125:25; 126:4,14 Madness (1) 118:19 Maggie (1) 119:19 Maggie (2) 118:10,21 magnificently (1) 40:18 magnifying (1) 67:14 magnitude (1) 50:15 mail (1)	296:16 making (26 17:15;26: 33:21;42: 48:12;53: 63:21;73: 80:15;94: 136:10;14 155:14;17 200:13;20 223:23;20 276:24 malic (1) 214:8 malign (1) 142:21 man (3) 40:23;96: manage (8) 51:5,6;14 186:16;22; 262:24;20 managed (2 248:15;29 management 15:1;31:9 73:14;96: 107:19;10 120:16;18
Mac (1) 118:1 macro/micro (1) 232:14 Madam (1) 170:16 made- (1) 169:15 made-with (6) 169:16;171:13,24; 172:2;175:10,17 Madison (5) 8:22;24:2;125:25; 126:4,14 Madness (1) 118:19 Maggie (1) 119:19 Maggie (2) 118:10,21 magnificently (1) 40:18 magnifying (1) 67:14 magnitude (1) 50:15	296:16 making (26 17:15;26: 33:21;42: 48:12;53: 63:21;73: 80:15;94: 136:10;14 155:14;17 200:13;20 223:23;20 276:24 malic (1) 214:8 malign (1) 142:21 man (3) 40:23;96: manage (8) 51:5,6;14 186:16;22 262:24;20 managed (2 248:15;29 management 15:1;31:9 73:14;96: 107:19;10
Mac (1) 118:1 macro/micro (1) 232:14 Madam (1) 170:16 made- (1) 169:15 made-with (6) 169:16;171:13,24; 172:2;175:10,17 Madison (5) 8:22;24:2;125:25; 126:4,14 Madness (1) 118:19 Magie (1) 119:19 Magic (2) 118:10,21 magnificently (1) 40:18 magnifying (1) 67:14 magnitude (1) 50:15 mail (1) 105:15	296:16 making (26 17:15;26: 33:21;42: 48:12;53: 63:21;73: 80:15;94: 136:10;14 155:14;17 200:13;20 223:23;20 276:24 malic (1) 214:8 malign (1) 142:21 man (3) 40:23;96: manage (8) 51:5,6;14 186:16;22 262:24;20 managemen 15:1;31:9 73:14;96: 107:19;10 120:16;18 206:24;22

	(1(0)2)
in (11) 21:12;35:9,10; 74:11;138:18;199:21; 223:18;246:22; 274:17;275:12; 286:12 ine (2) 242:15;249:24 inly (1) 57:1 intain (3) 164:8;165:15; 168:17 intained (1) 265:23 intains (1) 12:25 ijor (4) 101:24;214:16; 227:17;274:2 ijority (3) 176:17;180:20; 212:13 keover (1) 276:19 kers (1) 214:11 kes (10) 15:19;53:18;118:6; 229:9;249:25;255:14; 266:8;271:20;273:18; 296:16 king (26) 17:15;26:19;27:6; 33:21;42:8,15;43:2; 48:12;53:21;62:8; 63:21;73:12;76:21; 30:15;94:10;123:3; 136:10;142:20; 155:14;174:24; 200:13;204:14;216:2; 223:23;260:21; 276:24 lic (1) 214:8 lign (1) 142:21 m (3) 40:23;96:19;217:20 mage (8) 51:5,6;143:12; 186:16;235:21; 262:24;266:18;271:8 maged (2)	8;295:23;298:15 manager (11) 17:19,20;18:5,10; 98:13;117:14;123:16, 24;160:17;286:11; 287:17 managers (1) 262:3 manages (1) 166:15 managing (3) 18:7;110:1;292:8 mandate (1) 254:24 mandated (1) 144:14 mandatory (6) 62:1,2,21;80:16,19; 144:12 Manual (2) 6:19;142:14 manufacturer (2) 148:25;272:14 manufacturers (4) 220:24;242:16,17; 274:23 manufacturing (3) 143:24;149:1;273:1 manure (1) 265:16 manures (1) 268:6 many (66) 10:14;13:1;15:17; 16:23;22:15;24:2; 30:4;42:1,1,2,4,4,24; 51:13;57:4;59:6; 60:24;64:3;70:7;74:8; 86:23;90:12,13; 100:21;105:14;110:8; 112:10;113:14; 116:18;118:2;119:22; 120:25;122:19;130:5; 145:10;147:22;150:2; 156:21;171:13; 183:14;190:7;200:17; 206:10;215:16; 217:22;219:5;221:23; 230:21;234:16;236:8; 238:6,10;242:23; 245:23;250:21; 252:13,13;253:1;
nage (8) 51:5,6;143:12; 186:16;235:21;	217:22;219:5;221:23; 230:21;234:16;236:8; 238:6,10;242:23;
	252:13,13;253:1; 256:25;258:2;264:7;
15:1;31:9;72:7; 73:14;96:2;99:16;	269:21;273:24; 291:21;299:1,24 map (1)
107:19;109:25;111:3; 120:16;189:16,22,24; 206:24;230:25;	182:23 maple (2) 11:6,6
236:22;244:15; 253:13;265:20;281:6,	Marbleseed (8) 99:14;111:19,20,

25;112:11;122:18; 134:4:291:11 March (7) 52:2;53:1;118:10, 19,21;133:20;196:16 margin (1) 196:3 margins (1) 196:4 Marin (2) 258:17,19 marine (2) 273:4:274:16 Marin-Sonoma (1) 258:23 mark (17) 92:12;147:25; 148:9;159:24;160:5, 9;226:4;269:2; 272:11;275:25;276:2; 277:25;278:2;279:16; 281:12,17;285:18 marked (3) 55:10;91:13;147:6 market (42) 21:8;54:8,8;74:14; 92:5;126:15;129:9, 12;140:17;167:19; 172:9,16;175:14; 180:6,11:195:10; 196:13,24;200:11,25; 201:9.10:204:3: 211:21:213:5,17; 217:1:218:12.21: 220:4;222:14;235:8, 9;236:18;247:23,24; 250:6;261:20;274:21; 282:10;293:15;294:5 marketers (1) 167:16 Marketing (9) 39:7:69:21:213:12; 214:13,18;218:25,25; 293:11,24 marketplace (7) 160:5;183:24; 200:20;201:15;221:1; 227:15;234:10 markets (19) 14:19;109:5,24; 112:21;129:8,11,14, 16:131:17:140:8.18: 141:12;144:24;145:2; 186:7;189:15;208:11; 261:19;290:23 marking (2) 61:17;67:25 marry (1) 204:24 Mary (1) 263:10 Maryland (1) 147:15

- Vol. 3 April 29, 2024

mascot (1) 188:3 mass (1) 86:12 master's (1) 8:20 matched (4) 56:4;101:23,24; 102:2 matches (1) 71:3 material (13) 150:17,22;151:1, 24;152:4,24;156:23; 169:1,7;170:11; 240:5;248:24;297:11 materials (30) 35:8;38:16;119:13; 144:2;146:10;152:13; 153:22;160:22; 161:20;171:15; 205:23;214:7;221:22; 239:19,23;240:6,12, 18;242:17;243:5; 245:11,12;247:8,11; 248:2,24;260:2; 267:21;270:11; 271:10 math (3) 95:4;101:24;132:20 Matt (2) 94:1.23 matter (10) 11:15;13:24;14:2,3, 13;40:9;148:24; 218:18;221:10; 283:10 matters (1) 238:8 maturities (1) 287:25 maturity (2) 152:24;161:17 Maude (1) 299:16 Maury (4) 286:7;291:9; 294:22;298:5 maximum (1) 151:4 may (44) 9:7;33:6;34:11; 36:9;37:16;39:22,22, 24;56:9,13;60:5;62:1, 2,25;68:2;69:23; 70:11;75:14;77:20, 20;83:23;84:3;85:4,6; 87:25;92:1;112:10; 118:19;119:9;132:14; 149:10;161:8;164:24; 170:4;191:3;202:8; 224:7;240:6;243:14, 14;271:21;282:2;

- Vol. 3 April 29, 2024

Spring 2024 Meeting				April 29, 2024
295:9;296:13	mechanical (2)	149:24;150:19,24;	21;139:1	273:10
maybe (39)	215:17;274:14	151:2,5,12;153:2;	mentees (14)	message (9)
10:7;12:9;14:4;	mechanics (1)	155:18,20;156:12,16;	102:4;103:13;	31:7;40:21;42:25;
35:5;36:8;67:1;69:22;	175:6	157:12,25;158:2,5,10,	104:5;106:25;107:1;	43:2;66:15;115:13;
71:7;79:11;83:24,25;	mechanism (3)	12,16,20,23;159:1,15,	118:14;119:2,6;	216:11;219:6;234:2
86:23;93:11;127:19;	52:6;147:24;148:22	17;163:5,15;166:1;	120:3,19;128:2;	messaging (4)
128:23;137:18,19,22;	mechanisms (5)	167:9;168:7;170:25;	137:16,19;139:5	35:9;40:2;42:13;
141:1;172:17;191:12,	102:18;145:16;	171:7;172:13,23;	mention (3)	219:8
25;192:22;197:12,16;	148:3;238:11;287:13	174:14,18;178:6,18;	43:4;118:7;222:6	messed (1)
198:9;203:17;205:11;	media (6)	179:16,19,21,25;	mentioned (37)	160:7
213:9;220:3;224:4;	35:4,7;38:8;207:4;	181:3;182:1,24;	10:2,12;29:8;33:25;	met (5)
233:21;253:9,10,10;	238:11;300:1	185:6,12,15,18,21,24;	38:12;59:18;64:3;	77:9;98:8;145:13;
256:2,8;257:3;290:3	mediation (1)	186:2,6;187:3,6,19;	80:24;82:1;83:23;	270:16;298:7
McCluskey (11)	15:1	188:12;191:8;192:5,	86:9;91:10;100:11;	metals (6)
272:12;276:1;	medication (1)	9;194:18,19;196:22;	115:19;125:24;	155:1,4,6,11;
281:18,20,21;284:2,5,	296:4	197:5,8,20,23;198:1,	129:24;133:2;136:8;	267:12,15
23;285:15;286:2,4	mediocre (1)	23;202:20;204:18;	137:23;154:12;160:1;	methamidophos (2)
McInerney (2)	117:19	206:5,19;210:17;	166:6;172:15;173:21;	229:13,17
18:3;32:16	medium (1)	212:7;217:19,25;	176:14;182:6;191:21;	methane (3)
meal (9)	13:20	218:4;219:2,20,25;	192:23;199:5;203:19;	145:10;272:21; 273:22
177:4,5;178:20; 179:2,5,8,17;180:4;	meet (10) 74:21;99:9;119:4;	220:14;221:3;223:4;	210:24;215:3;226:12;	methionine (16)
179:2,3,8,17,180:4; 181:8	146:9;150:20;155:8,	228:10,22;230:8,12; 233:13;235:19,23;	240:19;251:23; 271:17;285:9	94:4,5;170:19,20;
mean (47)	16;157:1,7;271:11	236:7;237:10;241:15;	mentor (30)	176:2,4,7,13,23;
32:6;33:13;39:12;	meeting (43)	243:2,22;245:16;	71:2;99:20,22;	177:13,18;180:3,9,11;
54:15;66:23;76:22,	6:15,16;16:7,20;	246:12;250:20,25;	102:5;107:4;109:14;	182:3,14
24;82:8;84:5,12;85:5;	18:7,22;23:17,18,20;	251:7;253:17;260:9,	115:24;117:19,19,20;	methodology (1)
94:21;120:5;158:17,	24:1,1,3,4,12;28:20;	11;261:10,13,17;	118:13,15,22;119:1,4,	30:2
17;167:12,14;174:5;	36:18,19;50:10;	262:7,10;263:1;	19;121:12;122:23;	methods (11)
186:16,25;187:23;	93:25;94:13,19;	265:9;268:24;271:16,	123:5;124:3,14;	93:14;100:5;159:7;
193:3;196:2;210:20;	95:11;107:6;115:11,	23;272:4,7;275:7,20,	127:15;128:1,18;	170:3;248:1;283:15;
211:3,25;213:10,11;	19;139:11,12;145:11,	23;278:2,6,18;279:10,	137:20,21;139:1,5,5;	288:9;289:3,3,12,13
229:14;232:21,22;	18;150:11;155:15;	16,19;281:11;284:7;	194:21	methyl (1)
236:24;238:5;242:22;	160:22,23;165:6;	285:12;286:1;288:23;	mentoring (3)	236:17
244:20;257:18;	176:14;226:6;239:16;	289:20,25;290:12;	71:8;125:3,6	metric (1)
267:15;277:1;278:9,	241:3;252:1;281:14;	297:9,18;300:11	mentor-mentorship (1)	169:8
10;279:10;289:4;	283:16;298:22;302:1	member-based (2)	137:16	metrics (1)
290:8,10;296:13;	meetings (18)	208:18;220:22	mentors (11)	54:13
297:12;300:16	6:16;16:23;17:1,2;	members (39)	102:4;104:4;	Mexico (7)
meaning (2)	30:19;34:16;88:20;	6:12;7:12;17:10;	106:25;107:1,1;	57:14,14;181:13;
55:6;56:2	94:14;110:22;132:18;	18:17;19:1,6;23:16;	114:11;117:16,20,25;	229:12,15;254:8;
meaningful (4) 54:16;161:4;	160:21;194:15; 202:17;205:19;223:6;	28:5,15,17,25,25; 69:18;88:16;97:16;	137:17,19 mentors' (1)	263:20 mic (7)
231:18;282:7	234:4;287:2;299:12	122:15;136:11;	120:18	16:10;18:15;95:8,
means (18)	Meggan (5)	142:23,25;143:12,13,	mentorship (30)	21;128:12,14;275:6
30:21;33:15;34:18;	286:6;291:8;	14,16;163:12;168:12;	71:1,3,4;99:18;	Michael (3)
37:7;38:21;43:14;	294:21,25;297:7	176:19;194:14;200:6;	100:1;101:23;102:6;	143:19;160:13;
45:25;51:12;53:14;	meloxicam (10)	204:20;221:1,18;	105:11;106:23;	163:18
55:6,8;56:17;66:23;	246:14;295:2,11,	236:8;241:24;243:12;	107:10;111:13;113:6;	Michelle (8)
75:3;86:5;101:25;	13,14,25;296:3,14,17,	269:5,13;282:1;	114:10;117:9,11,21,	16:18;17:3,6,8;
215:5;235:21	25	283:12;287:4	25;118:16;120:18;	28:10;88:19;94:14;
meant (2)	MEMBER (175)	membership (1)	124:5;133:19;138:6,	175:22
36:7;190:6	19:10,15,21;20:1,	104:21	17,18,25;139:4,6,10,	Michelle's (2)
meantime (1)	10,17,25;21:9,14,21;	Mendenhall (9)	14;140:15	16:20,24
6:7	22:2,5,23,25;25:3;	188:24;194:10;	mentorship/mentee (1)	Michigan (1)
measurable (1)	30:4;39:2;40:7,25;	200:4,6,8;203:3,23;	129:3	100:7
277:18	41:8;73:24;76:4;	205:3;206:10	mentorships (3)	micro (2)
measure (2)	77:12;78:16;83:13;	mental (1)	114:9;122:16,17	240:13,14
41:14;235:21	86:9;87:9;93:9,22;	15:5	mercy (1)	microbial (2)
measured (1)	94:21;95:1;115:10;	mentee (15)	45:3	240:16;267:18
148:17	121:15;129:22;	71:2;118:3,7,12,21;	Merrigan (2)	microbiome (1)
measurements (1)	130:17;132:17;137:6;	119:11;120:8,9,18;	226:4;233:15	273:12 microorganisms (1)
236:1	139:15;146:1,13,16;	125:9,12,22;137:20,	mesh (1)	microorganisms (1)

Burke Court Reporting & Transcription (973) 692-0660

152:1 262:20 microplastic (2) 152:17,18 microplastics (4) mind (10) 152:16,18:238:6; 273:3 mid (1) 266:12 mid-1980s (1) Mindee (9) 14:23 middle (1) 193:6 middlemen (1) 283:17 262:19 mindset (1) mid-May (1) 28:3 mine (3) 50:25 Midwest (35) 7:13;18:11;29:1; mined (1) 70:15,16;95:8,9,20; 278:13 97:6,12;98:10,22; mineral (1) 99:6,7,9,25;100:5,19, 245:13 22;101:13;102:21,23; minerals (2) 103:17;104:9;112:1; 243:4,13 113:15;128:2,25; 129:9;137:11;139:8, 114:5 19,23;141:25;231:17 might (35) 267:23 10:18;15:14,21; 27:12;40:8;52:16; 239:14 56:15:57:2:63:4.5; minimum (3) 66:25:69:25:73:11; 76:13:77:7:84:20: 243:19 85:8:94:19:125:8; mink (1) 133:7;134:20,21; 142:21;179:8;205:15, 17;206:15,15;212:1; minority (1) 218:10;239:5;244:10; 245:17;251:1;268:22 25:8 minute (4) mighty (2) 32:13:168:4 Mike (5) 53:3 163:20;165:20; minutes (12) 166:4;168:9;221:13 miles (4) 106:16;197:12; 263:10;301:2 milk (4) Miranda (2) 10:13;11:1,4; 167:16 Mirenda (1) mill (1) 72:21 262:19 mirror (1) millennial (1) 218:1 millimeter (1) 238:13 240:6 miss (2) million (18) 11:3;18:13;98:12; missed (3) 153:8,12;154:5,5; 157:13,16,18;158:13, missing (3) 21,24;172:2;177:9,13, 13.19 mission (9) Mills (3) 124:17;195:20;

10:12

125:7

166:10

112:12:113:23; Milwaukee (3) 123:20.23:126:19: 16:1:18:3:111:23 168:15:220:24 mission-driven (1) 39:21:41:16:98:8; 281:22 124:7;129:20;132:4; Mississippi (3) 98:2;178:24;258:21 175:10;228:17; Missouri (1) 235:24:300:13 100:6 21:21:27:20:30:4; mistake (2) 149:23;241:19; 145:7;240:19 243:21;265:8;281:10; mistakes (3) 27:6:123:3.4 misunderstanding (1) 210:3 misuse (1) 126:8;236:8;300:5 160:5 misuses (1) 159:24 mitigate (1) 273:15 mitigation (1) 291:24 mini-grants (1) mix (5) 58:24;87:16; minimization (1) 163:10;262:19; 275:18 minimizing (1) mixed (4) 134:9;249:3,10; 262:20 189:19:217:13; mixing (1) 265:15 modalities (1) 110:18 Minnesota (2) mode (1) 100:6;147:15 52:1 model (2) 139:6:262:22 models (3) 11:8:35:14:52:9; 8:8:64:8:260:13 modify (1) 136:24 module (3) 23:17,20;30:13; 50:5,23;95:3;118:9; 68:23;69:3;80:25 MOFGA (1) 185:20;188:10; 217:21;221:9;238:16 162:17 Moines (1) 17:17;32:14 195:8 molecules (1) 158:11 Molino (1) 276:3 misinformation (1) moment (12) 23:25;26:7,13;29:2, 10;41:1;97:1;100:22; 29:6;173:17 134:11;143:11,13; 301:19 98:14;277:8;278:2 moments (1) 126:10 113:19;122:22; momentum (1) 133:23 moms (1) 75:6:104:19: 19:3

MOM's (2) 41:19.21 Monarch (1) 301:18 money (16) 16:1;38:19,20;92:7; 120:7;125:19;186:16, 24;194:2;195:15; 214:21;216:2;227:2, 10:260:21:274:1 monitor (4) 68:12;81:25;160:4; 282:3 monitoring (3) 57:19;58:17;61:25 Monroe (1) 298:7 Montana (2) 19:17;284:12 Monterey (1) 21:1 month (5) 23:5;50:13;118:11; 120:6:261:7 monthly (4) 42:5;74:22;107:10; 139:10 months (12) 48:16;62:15,16; 81:25:133:20:136:6; 139:12;140:21;227:4; 260:13:262:10: 299:12 months-long (1) 299:10 moral (1) 162:4 moratorium (1) 161:16 more (199) 6:6:9:13.15:11:18. 18,19,20;16:23; 17:11;18:11;26:8,23; 27:2,15;28:11;30:1; 34:23;35:13;37:6,23; 38:19,19,20;40:10,10; 44:20;45:24;51:23; 56:1;57:25;59:9;61:1, 9;62:16;63:7,8,10; 70:11,19,21,25;73:11, 16;75:24;77:25; 78:14;82:11;83:11; 87:14:90:25:91:3.4.9. 11,22;92:22,24;93:1, 4;96:6;97:20;99:15; 101:9;102:11;103:1, 1;109:17;110:6; 111:5,15;112:23; 119:23;120:6,16; 121:5;122:7,7,9; 123:11.18:130:1: 134:5;137:16,21; 138:10;140:8;141:15; mostly (5)

- Vol. 3 April 29, 2024

147:10,10:152:5; 154:9:156:17:157:10: 158:18,20,23:159:5; 162:19:163:6:167:3. 6,15;170:5,5;172:11; 173:2;174:23;176:18, 19;178:21;180:23; 186:7.8.8.8.11.21; 188:18;191:2,3,4,13; 192:3,7:195:5:196:1, 13,25;197:3;198:25; 202:10;203:6,22; 204:12;205:1;206:15, 16,17;208:1;209:15; 213:1,2,16,16;214:21; 221:12,15;222:1,1,25; 223:6,6;226:20; 227:9;233:24;234:2; 241:1;244:3;246:21; 247:6,7,21;248:8,11, 13:250:16,17:251:7, 15,16;252:2,20; 254:19;255:15; 257:13;258:14; 260:21;261:5,9; 262:22;266:10; 267:18;270:18;271:6; 276:18;277:14;281:6; 282:7;284:22;285:7; 286:7;288:10;293:1, 6,14;294:2;299:8; 301:3.3 morning (20) 6:5.10:18:24:19:15. 21;20:10,17,25;21:9, 21;22:5;23:25;31:18; 69:14;70:15;98:25; 111:21;117:7;196:9; 228:18 **MOSA (10)** 95:23.24:97:14.22. 24,25;98:3,10,24;99:1 MOSES (3) 112:11;122:17; 132:9 most (48) 9:8;17:18;19:2,13; 24:24;25:16;29:11; 33:25;34:1;36:11; 38:6;40:12;42:7;50:4; 62:18;68:25;79:22; 92:18;118:2;119:18; 120:23;129:24; 130:15;148:1;162:11, 17;169:3,23;170:16; 177:1;180:25;193:21; 195:23;204:11; 217:24;225:6,21; 227:16,20;229:21; 245:6,11,11:265:24; 284:13;287:23;293:1, 4

Min-U-Script®

301:9

281:4

77:22

273:18

83:21

282:13

155:1

67:1

102:8;118:4; 120:12:234:8:294:7 Mother (2) 21:22;258:15 motivate (2) 122:1;252:8 Mountain (1) 298:9 **move (24)** 9:9:58:5:64:15.17; mulch (1) 66:9;71:1;75:2,3; 79:21:97:11:114:13; multi (1) 122:1;145:1;198:10; 206:13;226:7;237:3; 238:16;248:2;249:23; 257:6;259:18;285:14, 15 moved (9) 20:13;29:11;53:11; 122:2,11;154:4; 225:3:283:2:299:7 movement (8) 104:25;106:11; must (24) 108:16;123:9;189:11: 200:10;210:20; 222:10 moves (1) 226:9 moving (12) 9:9:27:11:51:22; 53:8:57:15:58:1; 64:16:146:2:170:2: 183:22;202:8;228:3 MROs (1) **MVP (6)** 170:8 much (107) 8:25:9:14:25:19; 31:14;38:23;39:21; 43:2;68:20;73:16,24; 74:1;76:4;78:14,16; myself (6) 83:1;86:16;87:2;94:7, 12;97:15,18;101:19; 104:16;112:18;115:9; 118:19;125:3;126:2; 129:24;132:19;137:4; N/A (1) 138:6;141:24;149:17, 24;150:8;152:5; 153:23,25;155:6; name (32) 159:15;160:10;163:3, 16;165:20;172:25; 174:14:175:25; 182:25;187:1;188:11; 191:9;192:9;194:7,8; 195:14;196:6,20,22; 200:1;203:8;206:20; 209:1;211:8;213:18; 219:22;220:1;223:4; 227:23;228:10;229:8; 231:12,14;232:18; 234:5,12,19:237:16; names (3) 238:15;242:10;

257:10:260:7.20; NANDWANI (10) 263:3;265:6,9; 19:21,22;137:6; 268:25;272:10; 139:15:170:25:171:7; 275:24;277:13; 172:13,23;288:23; 280:18;283:23;286:3; 289:20 288:14,21;291:7; nanoplastics (2) 240:13,15 293:18;294:11,18; 297:19;300:9,11; narrative (1) 291:13 narrow (1) 241:25 Nashville (1) 115:11 multinational (2) Nate (34) 77:22,23 19:16;20:5;23:14, multiple (6) 22;27:20;40:6;86:8; 24:23;34:16;36:25; 117:16;128:7,15; 139:5;150:18;151:22 147:23;159:16;163:4; municipal (1) 178:4,10;181:25; 182:5;186:5;191:7; murky (1) 196:20;204:17;209:9, 22:217:18:226:11: 241:19;248:22;262:9; 29:21;32:5;47:3,4; 266:14;278:1,19; 49:16,23,23;62:18,20; 284:6,23;297:7 Nate's (1) 63:19;84:21;85:5; 142:17;164:3;165:2, 165:23 15;169:19,21;177:17; nation (6) 200:18;240:4;287:10; 10:11;13:15;14:7; 292:9:296:8 190:15:214:20; must-responded (1) 258:17 National (55) mutagens (1) 6:11,15,17;7:8; 10:22,22;16:15;18:9; 26:17;30:5;43:8,17, 298:12,14,21; 18;70:20;75:1;78:1; 299:8,13:300:6 94:11;95:11;97:16; myriad (2) 100:25;101:1;104:13; 110:3;287:24 133:21;144:4,16; 161:23;162:5;169:15; 32:1;122:9;127:11; 171:23;172:5;175:8; 183:4;226:5;300:1 176:7;179:15;183:16; 193:16;201:21;203:6; N 213:7;231:3;238:25; 240:22;247:3;251:4; 254:20;259:5,6,25; 260:1;270:6;271:9, 12;294:24;295:12,25; 19:8,16,21;20:1; 299:25 23:7:64:25:99:1; nationalist (1) 102:25;108:24;117:7; 18:2 143:8,21;160:15; nationally (2) 168:13;175:25; 190:17;281:23 nation's (2) 188:25;189:3;194:13; 200:7;213:24;220:19; 11:1;269:25 nationwide (1) 238:21;253:23; 256:23;258:12;269:6; 260:19 276:2,15;281:20; native (3) 286:9;294:25;298:5 77:4;88:10;115:25 Natives (1) 64:24,24;142:17 88:10 name's (2) Natural (13) 121:15:125:24 8:13;20:12;21:22;

135:6:163:25:164:1; 179:9;245:13;275:13; 291:24;295:4,16,22 NATURE (6) 123:12,14,15,16; 255:10;259:7 navigate (5) 67:2;100:15; 127:23;189:13; 222:13 navigating (1) 111:6 NCSP(1) 116:6 **NDA (1)** 279:10 near (4) 124:16;127:12; 221:5;232:17 nearby (1) 298:18 nearest (1) 106:15 nearly (2) 10:24;29:3 Nebraska (3) 22:9;192:22;300:25 necessarily (6) 60:21;82:8;88:22; 131:2;217:7;244:15 necessary (10) 39:3:130:10: 131:15:141:13; 239:25;243:19; 251:21,24;260:3; 276:23 need (143) 13:10,11,20;15:14, 21;26:6;30:20;34:17; 38:9,11:40:10,11; 42:16;43:10;47:17, 21;49:2,12;52:3,10, 13,15;53:6,7;57:24; 58:3,5;61:11,22; 63:19,22;64:8;66:5,5; 68:12;69:11;71:4; 73:11;76:25;81:20, 24;82:3,8,13;85:6,9, 10,14,15,24;89:23; 91:7;101:9;107:8; 109:24;120:25; 134:11;140:6,10,22; 148:7;151:13;157:6; 161:2;165:8;167:4; 170:12;174:25;178:1; 179:15;181:16,21; 184:14,16,16,22,24; 186:18;187:13; 190:10;191:24;193:3; 195:5:196:11:197:6, 15;201:5,15;202:2,5, 9,25;203:16;204:4,7, 8;205:16,21;206:12;

- Vol. 3 April 29, 2024

210:9:213:10,11,11; 214:18.18:215:6.13. 19;216:3,4,15;218:25, 25,25;232:4;234:1; 242:19;244:17; 247:10;249:12; 250:16;251:17;254:6, 14:259:16.20.21; 260:4,5;264:14; 273:15,16;276:18,24; 278:3,12;287:15; 292:1,13,16;293:9; 296:22:301:7 needed (18) 23:19;53:5,15;60:2; 69:7;90:2;104:16; 120:15;165:12,13; 181:16;193:6;198:14; 210:18;239:17; 245:24;251:25; 276:20 needing (2) 252:1;278:24 needs (26) 13:13;17:23;48:8; 67:23;68:5,19; 110:15,16,18;111:10; 118:24;123:11; 130:21;161:7;196:18; 203:22;205:20,21; 237:4;265:18;277:7. 16.23:279:14:285:7: 287:13 negative (1) 240:14 negotiate (1) 294:3 negotiations (2) 82:15;145:12 neighbor (1) 106:16 neighboring (2) 118:18;190:16 neighbors (1) 14:6 neonicotinoid (1) 20:14 neonics (1) 231:9 nervous (1) 66:22 nervousness (1) 182:10 nestled (1) 127:4 net (3) 13:12;157:24;162:9 nets (1) 202:2 network (5) 75:16:104:4: 110:13:134:18; 287:17

244:11;249:22;

250:17;254:11;

Spring 2024 Meeting	r			April 27, 2024
	201.2	256.5	04 1 10 07 17 00 00	102 12 112 2 114 16
networks (3)	204:2	256:5	24:1,18;27:17;28:22;	103:13;112:2;114:16;
76:1;135:19;140:15	Nick (7)	non-compliant (1)	94:11,21;143:16;	146:14;152:9;157:22;
neurotoxin (1)	125:15,22,24;	54:20	145:17;150:6;152:10;	177:3;183:13;192:16,
236:14	127:23,24;128:18,22	None (2)	160:21,21,23;163:22,	17,25;193:1;195:10,
nevertheless (1)	NICS (2)	28:14;281:8	24;168:12;188:16;	18,23;200:16;226:21;
288:8	97:24,25	non-GMO (1)	194:14,19;200:6;	245:17;252:10,11;
new (63)	NIFA (1)	298:25	201:20;202:11,13,14,	253:1,2,4,15;264:6;
6:8,22;7:9;8:10;	94:11	non-hedgeable (1)	16;204:20;205:5,14,	281:2;286:10;292:5
15:3;17:23;18:21;	night (1)	195:11	19,20;206:7,13;	numbers (18)
20:21;21:12;25:16;	84:6	non-organic (4)	226:3;238:25;239:8;	33:11;39:12,13;
	nine (3)			· · · ·
26:5,7;27:7,8;45:21;		169:20;179:7;	246:12;254:9,22;	41:12;50:5;51:19,21;
46:9;51:1,12,12,17;	12:2,4,4	188:15;197:16	277:22;283:16;	54:22;55:14;59:13,
53:12;61:14;62:9;	Ninety (1)	non-profit (5)	285:14;287:6;288:20	16;74:3;80:4;87:3;
64:2,18,19,19;65:12,	39:9	24:21;25:6;108:25;	NOSB's (1)	101:22;135:24;
15;71:6;99:1;100:25;	nitrate (1)	162:17;189:10	271:8	174:24;252:19
104:2;113:11;119:12;	266:7	non-retail (2)	notable (1)	nursery (1)
125:25;127:7;140:5,	nitrogen (11)	83:20;85:4	91:1	251:13
7;142:10;154:2;	243:25;245:7,10,	non-steroidal (1)	note (8)	nurture (2)
161:16;168:15;172:9;	13,14;255:18,19;	296:3	62:23;118:22;	115:8;259:21
190:2;200:17;204:20;	266:2,5,6,8	non-synthetic (2)	162:21;195:13;240:4,	nut (3)
212:16;215:23;	NLP (5)	171:10,11	20;269:14;287:5	20:22,24;121:19
	28:21,25;94:4;	non-wonky (1)		nutrient (2)
218:17;224:18;			noted (2)	
225:15;227:16;228:4;	97:19;277:3	213:9	23:18;221:17	189:21;243:4
230:2;236:12,13;	Noah (9)	NOP (53)	notes (3)	nutrients (1)
251:12;264:11;270:7,	183:3;188:24;	16:8;17:19;23:23;	115:16;117:23;	244:3
19;292:2,13	194:10,13;196:23;	25:24;30:12;31:17;	195:17	nutritionists (1)
newly (1)	197:23;198:23;199:2;	32:18;51:22;52:7;	noticing (1)	179:7
65:10	200:2		216:21	
		53:16;73:4;86:3;94:8,		nuts (1)
news (2)	Nobody (1)	22;111:3;138:19;	Notre (1)	110:24
81:22,23	108:3	162:12,21,22,23;	154:6	nutshell (1)
next (62)	no-brainer (1)	163:22,24;165:16;	novel (1)	76:23
6.79.8.10.17.21	227.25	168.12.173.23.	248.1	
6:7,9;8:10;17:21; 18:15:27:12.16:	227:25 NOC (4)	168:12;173:23;	248:1 NBCS (41)	0
18:15;27:12,16;	NOC (4)	200:18,21;201:2,11;	NRCS (41)	0
18:15;27:12,16; 28:19;30:7;67:16;	NOC (4) 162:5;218:18;	200:18,21;201:2,11; 202:13,14;222:21;	NRCS (41) 72:14;74:12,15,22;	
18:15;27:12,16; 28:19;30:7;67:16; 69:13;77:2;84:1;	NOC (4) 162:5;218:18; 240:20;243:12	200:18,21;201:2,11; 202:13,14;222:21; 224:20,22;226:3;	NRCS (41) 72:14;74:12,15,22; 75:7,12,18,24;76:1,2;	OAK (1)
18:15;27:12,16; 28:19;30:7;67:16;	NOC (4) 162:5;218:18;	200:18,21;201:2,11; 202:13,14;222:21;	NRCS (41) 72:14;74:12,15,22;	
18:15;27:12,16; 28:19;30:7;67:16; 69:13;77:2;84:1; 96:12,16;103:16;	NOC (4) 162:5;218:18; 240:20;243:12	200:18,21;201:2,11; 202:13,14;222:21; 224:20,22;226:3; 227:11;254:10,16;	NRCS (41) 72:14;74:12,15,22; 75:7,12,18,24;76:1,2;	OAK (1)
18:15;27:12,16; 28:19;30:7;67:16; 69:13;77:2;84:1; 96:12,16;103:16; 108:7;112:8;119:8;	NOC (4) 162:5;218:18; 240:20;243:12 N-O-C (1) 168:21	200:18,21;201:2,11; 202:13,14;222:21; 224:20,22;226:3; 227:11;254:10,16; 255:7,7,7;270:15;	NRCS (41) 72:14;74:12,15,22; 75:7,12,18,24;76:1,2; 99:15;103:7;107:13; 114:15,17,19;115:2,	OAK (1) 117:24 Oakland (1)
18:15;27:12,16; 28:19;30:7;67:16; 69:13;77:2;84:1; 96:12,16;103:16; 108:7;112:8;119:8; 120:1,2;123:10;	NOC (4) 162:5;218:18; 240:20;243:12 N-O-C (1) 168:21 N-O-C-K (2)	200:18,21;201:2,11; 202:13,14;222:21; 224:20,22;226:3; 227:11;254:10,16; 255:7,7,7;270:15; 282:21,23;283:6,10;	NRCS (41) 72:14;74:12,15,22; 75:7,12,18,24;76:1,2; 99:15;103:7;107:13; 114:15,17,19;115:2, 18,21;116:4,7,9,13,	OAK (1) 117:24 Oakland (1) 20:16
18:15;27:12,16; 28:19;30:7;67:16; 69:13;77:2;84:1; 96:12,16;103:16; 108:7;112:8;119:8; 120:1,2;123:10; 126:21;127:25;	NOC (4) 162:5;218:18; 240:20;243:12 N-O-C (1) 168:21 N-O-C-K (2) 168:21;170:16	200:18,21;201:2,11; 202:13,14;222:21; 224:20,22;226:3; 227:11;254:10,16; 255:7,7,7;270:15; 282:21,23;283:6,10; 287:6;288:20;289:21;	NRCS (41) 72:14;74:12,15,22; 75:7,12,18,24;76:1,2; 99:15;103:7;107:13; 114:15,17,19;115:2, 18,21;116:4,7,9,13, 18,21;127:24;130:6;	OAK (1) 117:24 Oakland (1) 20:16 OATS (4)
18:15;27:12,16; 28:19;30:7;67:16; 69:13;77:2;84:1; 96:12,16;103:16; 108:7;112:8;119:8; 120:1,2;123:10; 126:21;127:25; 134:12;135:14;138:2;	NOC (4) 162:5;218:18; 240:20;243:12 N-O-C (1) 168:21 N-O-C-K (2) 168:21;170:16 nock-nock (8)	200:18,21;201:2,11; 202:13,14;222:21; 224:20,22;226:3; 227:11;254:10,16; 255:7,7,7;270:15; 282:21,23;283:6,10; 287:6;288:20;289:21; 292:1,16;293:11;	NRCS (41) 72:14;74:12,15,22; 75:7,12,18,24;76:1,2; 99:15;103:7;107:13; 114:15,17,19;115:2, 18,21;116:4,7,9,13, 18,21;127:24;130:6; 135:22;138:11;	OAK (1) 117:24 Oakland (1) 20:16 OATS (4) 110:10,11;111:8;
18:15;27:12,16; 28:19;30:7;67:16; 69:13;77:2;84:1; 96:12,16;103:16; 108:7;112:8;119:8; 120:1,2;123:10; 126:21;127:25; 134:12;135:14;138:2; 143:3;160:13;163:18;	NOC (4) 162:5;218:18; 240:20;243:12 N-O-C (1) 168:21 N-O-C-K (2) 168:21;170:16 nock-nock (8) 168:20;170:15,17;	200:18,21;201:2,11; 202:13,14;222:21; 224:20,22;226:3; 227:11;254:10,16; 255:7,7,7;270:15; 282:21,23;283:6,10; 287:6;288:20;289:21; 292:1,16;293:11; 300:7	NRCS (41) 72:14;74:12,15,22; 75:7,12,18,24;76:1,2; 99:15;103:7;107:13; 114:15,17,19;115:2, 18,21;116:4,7,9,13, 18,21;127:24;130:6; 135:22;138:11; 189:16;190:9,18;	OAK (1) 117:24 Oakland (1) 20:16 OATS (4) 110:10,11;111:8; 195:2
18:15;27:12,16; 28:19;30:7;67:16; 69:13;77:2;84:1; 96:12,16;103:16; 108:7;112:8;119:8; 120:1,2;123:10; 126:21;127:25; 134:12;135:14;138:2;	NOC (4) 162:5;218:18; 240:20;243:12 N-O-C (1) 168:21 N-O-C-K (2) 168:21;170:16 nock-nock (8)	200:18,21;201:2,11; 202:13,14;222:21; 224:20,22;226:3; 227:11;254:10,16; 255:7,7,7;270:15; 282:21,23;283:6,10; 287:6;288:20;289:21; 292:1,16;293:11;	NRCS (41) 72:14;74:12,15,22; 75:7,12,18,24;76:1,2; 99:15;103:7;107:13; 114:15,17,19;115:2, 18,21;116:4,7,9,13, 18,21;127:24;130:6; 135:22;138:11;	OAK (1) 117:24 Oakland (1) 20:16 OATS (4) 110:10,11;111:8;
18:15;27:12,16; 28:19;30:7;67:16; 69:13;77:2;84:1; 96:12,16;103:16; 108:7;112:8;119:8; 120:1,2;123:10; 126:21;127:25; 134:12;135:14;138:2; 143:3;160:13;163:18; 168:10;170:15;	NOC (4) 162:5;218:18; 240:20;243:12 N-O-C (1) 168:21 N-O-C-K (2) 168:21;170:16 nock-nock (8) 168:20;170:15,17;	200:18,21;201:2,11; 202:13,14;222:21; 224:20,22;226:3; 227:11;254:10,16; 255:7,7,7;270:15; 282:21,23;283:6,10; 287:6;288:20;289:21; 292:1,16;293:11; 300:7	NRCS (41) 72:14;74:12,15,22; 75:7,12,18,24;76:1,2; 99:15;103:7;107:13; 114:15,17,19;115:2, 18,21;116:4,7,9,13, 18,21;127:24;130:6; 135:22;138:11; 189:16;190:9,18; 191:16,17,22,23;	OAK (1) 117:24 Oakland (1) 20:16 OATS (4) 110:10,11;111:8; 195:2
18:15;27:12,16; 28:19;30:7;67:16; 69:13;77:2;84:1; 96:12,16;103:16; 108:7;112:8;119:8; 120:1,2;123:10; 126:21;127:25; 134:12;135:14;138:2; 143:3;160:13;163:18; 168:10;170:15; 175:20;183:2;188:23;	NOC (4) 162:5;218:18; 240:20;243:12 N-O-C (1) 168:21 N-O-C-K (2) 168:21;170:16 nock-nock (8) 168:20;170:15,17; 173:9,10;239:6; 241:6,7	200:18,21;201:2,11; 202:13,14;222:21; 224:20,22;226:3; 227:11;254:10,16; 255:7,7,7;270:15; 282:21,23;283:6,10; 287:6;288:20;289:21; 292:1,16;293:11; 300:7 NOP-certified (1) 168:24	NRCS (41) 72:14;74:12,15,22; 75:7,12,18,24;76:1,2; 99:15;103:7;107:13; 114:15,17,19;115:2, 18,21;116:4,7,9,13, 18,21;127:24;130:6; 135:22;138:11; 189:16;190:9,18; 191:16,17,22,23; 192:5;193:19,20;	OAK (1) 117:24 Oakland (1) 20:16 OATS (4) 110:10,11;111:8; 195:2 obligation (1) 226:14
18:15;27:12,16; 28:19;30:7;67:16; 69:13;77:2;84:1; 96:12,16;103:16; 108:7;112:8;119:8; 120:1,2;123:10; 126:21;127:25; 134:12;135:14;138:2; 143:3;160:13;163:18; 168:10;170:15; 175:20;183:2;188:23; 194:10;195:22;200:4;	NOC (4) 162:5;218:18; 240:20;243:12 N-O-C (1) 168:21 N-O-C-K (2) 168:21;170:16 nock-nock (8) 168:20;170:15,17; 173:9,10;239:6; 241:6,7 NOC's (2)	200:18,21;201:2,11; 202:13,14;222:21; 224:20,22;226:3; 227:11;254:10,16; 255:7,7,7;270:15; 282:21,23;283:6,10; 287:6;288:20;289:21; 292:1,16;293:11; 300:7 NOP-certified (1) 168:24 nope (1)	NRCS (41) 72:14;74:12,15,22; 75:7,12,18,24;76:1,2; 99:15;103:7;107:13; 114:15,17,19;115:2, 18,21;116:4,7,9,13, 18,21;127:24;130:6; 135:22;138:11; 189:16;190:9,18; 191:16,17,22,23; 192:5;193:19,20; 201:18,21	OAK (1) 117:24 Oakland (1) 20:16 OATS (4) 110:10,11;111:8; 195:2 obligation (1) 226:14 observations (1)
18:15;27:12,16; 28:19;30:7;67:16; 69:13;77:2;84:1; 96:12,16;103:16; 108:7;112:8;119:8; 120:1,2;123:10; 126:21;127:25; 134:12;135:14;138:2; 143:3;160:13;163:18; 168:10;170:15; 175:20;183:2;188:23; 194:10;195:22;200:4; 206:21;213:21;	NOC (4) 162:5;218:18; 240:20;243:12 N-O-C (1) 168:21 N-O-C-K (2) 168:21;170:16 nock-nock (8) 168:20;170:15,17; 173:9,10;239:6; 241:6,7 NOC's (2) 241:21;243:3	200:18,21;201:2,11; 202:13,14;222:21; 224:20,22;226:3; 227:11;254:10,16; 255:7,7,7;270:15; 282:21,23;283:6,10; 287:6;288:20;289:21; 292:1,16;293:11; 300:7 NOP-certified (1) 168:24 nope (1) 61:4	NRCS (41) 72:14;74:12,15,22; 75:7,12,18,24;76:1,2; 99:15;103:7;107:13; 114:15,17,19;115:2, 18,21;116:4,7,9,13, 18,21;127:24;130:6; 135:22;138:11; 189:16;190:9,18; 191:16,17,22,23; 192:5;193:19,20; 201:18,21 NRCS's (2)	OAK (1) 117:24 Oakland (1) 20:16 OATS (4) 110:10,11;111:8; 195:2 obligation (1) 226:14 observations (1) 68:9
18:15;27:12,16; 28:19;30:7;67:16; 69:13;77:2;84:1; 96:12,16;103:16; 108:7;112:8;119:8; 120:1,2;123:10; 126:21;127:25; 134:12;135:14;138:2; 143:3;160:13;163:18; 168:10;170:15; 175:20;183:2;188:23; 194:10;195:22;200:4; 206:21;213:21; 214:12;220:15;227:4;	NOC (4) 162:5;218:18; 240:20;243:12 N-O-C (1) 168:21 N-O-C-K (2) 168:21;170:16 nock-nock (8) 168:20;170:15,17; 173:9,10;239:6; 241:6,7 NOC's (2) 241:21;243:3 nominate (1)	200:18,21;201:2,11; 202:13,14;222:21; 224:20,22;226:3; 227:11;254:10,16; 255:7,7,7;270:15; 282:21,23;283:6,10; 287:6;288:20;289:21; 292:1,16;293:11; 300:7 NOP-certified (1) 168:24 nope (1) 61:4 NOP-NOSB (1)	NRCS (41) 72:14;74:12,15,22; 75:7,12,18,24;76:1,2; 99:15;103:7;107:13; 114:15,17,19;115:2, 18,21;116:4,7,9,13, 18,21;127:24;130:6; 135:22;138:11; 189:16;190:9,18; 191:16,17,22,23; 192:5;193:19,20; 201:18,21 NRCS's (2) 74:24;75:6	OAK (1) 117:24 Oakland (1) 20:16 OATS (4) 110:10,11;111:8; 195:2 obligation (1) 226:14 observations (1) 68:9 observe (1)
18:15;27:12,16; 28:19;30:7;67:16; 69:13;77:2;84:1; 96:12,16;103:16; 108:7;112:8;119:8; 120:1,2;123:10; 126:21;127:25; 134:12;135:14;138:2; 143:3;160:13;163:18; 168:10;170:15; 175:20;183:2;188:23; 194:10;195:22;200:4; 206:21;213:21; 214:12;220:15;227:4; 236:8,18,19,19;	NOC (4) 162:5;218:18; 240:20;243:12 N-O-C (1) 168:21 N-O-C-K (2) 168:21;170:16 nock-nock (8) 168:20;170:15,17; 173:9,10;239:6; 241:6,7 NOC's (2) 241:21;243:3 nominate (1) 73:1	200:18,21;201:2,11; 202:13,14;222:21; 224:20,22;226:3; 227:11;254:10,16; 255:7,7,7;270:15; 282:21,23;283:6,10; 287:6;288:20;289:21; 292:1,16;293:11; 300:7 NOP-certified (1) 168:24 nope (1) 61:4 NOP-NOSB (1) 30:10	NRCS (41) 72:14;74:12,15,22; 75:7,12,18,24;76:1,2; 99:15;103:7;107:13; 114:15,17,19;115:2, 18,21;116:4,7,9,13, 18,21;127:24;130:6; 135:22;138:11; 189:16;190:9,18; 191:16,17,22,23; 192:5;193:19,20; 201:18,21 NRCS's (2) 74:24;75:6 NRCS-specific (1)	OAK (1) 117:24 Oakland (1) 20:16 OATS (4) 110:10,11;111:8; 195:2 obligation (1) 226:14 observations (1) 68:9 observe (1) 183:13
18:15;27:12,16; 28:19;30:7;67:16; 69:13;77:2;84:1; 96:12,16;103:16; 108:7;112:8;119:8; 120:1,2;123:10; 126:21;127:25; 134:12;135:14;138:2; 143:3;160:13;163:18; 168:10;170:15; 175:20;183:2;188:23; 194:10;195:22;200:4; 206:21;213:21; 214:12;220:15;227:4;	NOC (4) 162:5;218:18; 240:20;243:12 N-O-C (1) 168:21 N-O-C-K (2) 168:21;170:16 nock-nock (8) 168:20;170:15,17; 173:9,10;239:6; 241:6,7 NOC's (2) 241:21;243:3 nominate (1) 73:1 nominated (1)	200:18,21;201:2,11; 202:13,14;222:21; 224:20,22;226:3; 227:11;254:10,16; 255:7,7,7;270:15; 282:21,23;283:6,10; 287:6;288:20;289:21; 292:1,16;293:11; 300:7 NOP-certified (1) 168:24 nope (1) 61:4 NOP-NOSB (1)	NRCS (41) 72:14;74:12,15,22; 75:7,12,18,24;76:1,2; 99:15;103:7;107:13; 114:15,17,19;115:2, 18,21;116:4,7,9,13, 18,21;127:24;130:6; 135:22;138:11; 189:16;190:9,18; 191:16,17,22,23; 192:5;193:19,20; 201:18,21 NRCS's (2) 74:24;75:6 NRCS-specific (1) 114:20	OAK (1) 117:24 Oakland (1) 20:16 OATS (4) 110:10,11;111:8; 195:2 obligation (1) 226:14 observations (1) 68:9 observe (1)
18:15;27:12,16; 28:19;30:7;67:16; 69:13;77:2;84:1; 96:12,16;103:16; 108:7;112:8;119:8; 120:1,2;123:10; 126:21;127:25; 134:12;135:14;138:2; 143:3;160:13;163:18; 168:10;170:15; 175:20;183:2;188:23; 194:10;195:22;200:4; 206:21;213:21; 214:12;220:15;227:4; 236:8,18,19,19; 238:17;246:2;252:18;	NOC (4) 162:5;218:18; 240:20;243:12 N-O-C (1) 168:21 N-O-C-K (2) 168:21;170:16 nock-nock (8) 168:20;170:15,17; 173:9,10;239:6; 241:6,7 NOC's (2) 241:21;243:3 nominate (1) 73:1	200:18,21;201:2,11; 202:13,14;222:21; 224:20,22;226:3; 227:11;254:10,16; 255:7,7,7;270:15; 282:21,23;283:6,10; 287:6;288:20;289:21; 292:1,16;293:11; 300:7 NOP-certified (1) 168:24 nope (1) 61:4 NOP-NOSB (1) 30:10 NOP's (4)	NRCS (41) 72:14;74:12,15,22; 75:7,12,18,24;76:1,2; 99:15;103:7;107:13; 114:15,17,19;115:2, 18,21;116:4,7,9,13, 18,21;127:24;130:6; 135:22;138:11; 189:16;190:9,18; 191:16,17,22,23; 192:5;193:19,20; 201:18,21 NRCS's (2) 74:24;75:6 NRCS-specific (1) 114:20	OAK (1) 117:24 Oakland (1) 20:16 OATS (4) 110:10,11;111:8; 195:2 obligation (1) 226:14 observations (1) 68:9 observe (1) 183:13 observers (1)
$\begin{array}{c} 18:15;27:12,16;\\ 28:19;30:7;67:16;\\ 69:13;77:2;84:1;\\ 96:12,16;103:16;\\ 108:7;112:8;119:8;\\ 120:1,2;123:10;\\ 126:21;127:25;\\ 134:12;135:14;138:2;\\ 143:3;160:13;163:18;\\ 168:10;170:15;\\ 175:20;183:2;188:23;\\ 194:10;195:22;200:4;\\ 206:21;213:21;\\ 214:12;220:15;227:4;\\ 236:8,18,19,19;\\ 238:17;246:2;252:18;\\ 253:21;254:22;258:9;\\ \end{array}$	NOC (4) 162:5;218:18; 240:20;243:12 N-O-C (1) 168:21 N-O-C-K (2) 168:21;170:16 nock-nock (8) 168:20;170:15,17; 173:9,10;239:6; 241:6,7 NOC's (2) 241:21;243:3 nominate (1) 73:1 nominated (1) 72:25	200:18,21;201:2,11; 202:13,14;222:21; 224:20,22;226:3; 227:11;254:10,16; 255:7,7,7;270:15; 282:21,23;283:6,10; 287:6;288:20;289:21; 292:1,16;293:11; 300:7 NOP-certified (1) 168:24 nope (1) 61:4 NOP-NOSB (1) 30:10 NOP's (4) 30:22;74:17;201:4;	NRCS (41) 72:14;74:12,15,22; 75:7,12,18,24;76:1,2; 99:15;103:7;107:13; 114:15,17,19;115:2, 18,21;116:4,7,9,13, 18,21;127:24;130:6; 135:22;138:11; 189:16;190:9,18; 191:16,17,22,23; 192:5;193:19,20; 201:18,21 NRCS's (2) 74:24;75:6 NRCS-specific (1) 114:20 NRDC (1)	OAK (1) 117:24 Oakland (1) 20:16 OATS (4) 110:10,11;111:8; 195:2 obligation (1) 226:14 observations (1) 68:9 observe (1) 183:13 observers (1) 246:13
$\begin{array}{c} 18:15;27:12,16;\\ 28:19;30:7;67:16;\\ 69:13;77:2;84:1;\\ 96:12,16;103:16;\\ 108:7;112:8;119:8;\\ 120:1,2;123:10;\\ 126:21;127:25;\\ 134:12;135:14;138:2;\\ 143:3;160:13;163:18;\\ 168:10;170:15;\\ 175:20;183:2;188:23;\\ 194:10;195:22;200:4;\\ 206:21;213:21;\\ 214:12;220:15;227:4;\\ 236:8,18,19,19;\\ 238:17;246:2;252:18;\\ 253:21;254:22;258:9;\\ 262:4;263:6;269:1;\\ \end{array}$	NOC (4) 162:5;218:18; 240:20;243:12 N-O-C (1) 168:21 N-O-C-K (2) 168:21;170:16 nock-nock (8) 168:20;170:15,17; 173:9,10;239:6; 241:6,7 NOC's (2) 241:21;243:3 nominate (1) 73:1 nominated (1) 72:25 nomination (2)	200:18,21;201:2,11; 202:13,14;222:21; 224:20,22;226:3; 227:11;254:10,16; 255:7,7,7;270:15; 282:21,23;283:6,10; 287:6;288:20;289:21; 292:1,16;293:11; 300:7 NOP-certified (1) 168:24 nope (1) 61:4 NOP-NOSB (1) 30:10 NOP's (4) 30:22;74:17;201:4; 271:5	NRCS (41) 72:14;74:12,15,22; 75:7,12,18,24;76:1,2; 99:15;103:7;107:13; 114:15,17,19;115:2, 18,21;116:4,7,9,13, 18,21;127:24;130:6; 135:22;138:11; 189:16;190:9,18; 191:16,17,22,23; 192:5;193:19,20; 201:18,21 NRCS's (2) 74:24;75:6 NRCS-specific (1) 114:20 NRDC (1) 186:17	OAK (1) 117:24 Oakland (1) 20:16 OATS (4) 110:10,11;111:8; 195:2 obligation (1) 226:14 observations (1) 68:9 observe (1) 183:13 observers (1) 246:13 obtain (1)
$18:15;27:12,16;\\28:19;30:7;67:16;\\69:13;77:2;84:1;\\96:12,16;103:16;\\108:7;112:8;119:8;\\120:1,2;123:10;\\126:21;127:25;\\134:12;135:14;138:2;\\143:3;160:13;163:18;\\168:10;170:15;\\175:20;183:2;188:23;\\194:10;195:22;200:4;\\206:21;213:21;\\214:12;220:15;227:4;\\236:8,18,19,19;\\238:17;246:2;252:18;\\253:21;254:22;258:9;\\262:4;263:6;269:1;\\272:10;275:25;\\$	NOC (4) 162:5;218:18; 240:20;243:12 N-O-C (1) 168:21 N-O-C-K (2) 168:21;170:16 nock-nock (8) 168:20;170:15,17; 173:9,10;239:6; 241:6,7 NOC's (2) 241:21;243:3 nominate (1) 73:1 nominated (1) 72:25 nomination (2) 87:10,25	200:18,21;201:2,11; 202:13,14;222:21; 224:20,22;226:3; 227:11;254:10,16; 255:7,7,7;270:15; 282:21,23;283:6,10; 287:6;288:20;289:21; 292:1,16;293:11; 300:7 NOP-certified (1) 168:24 nope (1) 61:4 NOP-NOSB (1) 30:10 NOP's (4) 30:22;74:17;201:4; 271:5 normal (5)	NRCS (41) 72:14;74:12,15,22; 75:7,12,18,24;76:1,2; 99:15;103:7;107:13; 114:15,17,19;115:2, 18,21;116:4,7,9,13, 18,21;127:24;130:6; 135:22;138:11; 189:16;190:9,18; 191:16,17,22,23; 192:5;193:19,20; 201:18,21 NRCS's (2) 74:24;75:6 NRCS-specific (1) 114:20 NRDC (1) 186:17 nuanced (1)	OAK (1) 117:24 Oakland (1) 20:16 OATS (4) 110:10,11;111:8; 195:2 obligation (1) 226:14 observations (1) 68:9 observe (1) 183:13 observers (1) 246:13 obtain (1) 165:4
$\begin{array}{c} 18:15;27:12,16;\\ 28:19;30:7;67:16;\\ 69:13;77:2;84:1;\\ 96:12,16;103:16;\\ 108:7;112:8;119:8;\\ 120:1,2;123:10;\\ 126:21;127:25;\\ 134:12;135:14;138:2;\\ 143:3;160:13;163:18;\\ 168:10;170:15;\\ 175:20;183:2;188:23;\\ 194:10;195:22;200:4;\\ 206:21;213:21;\\ 214:12;220:15;227:4;\\ 236:8,18,19,19;\\ 238:17;246:2;252:18;\\ 253:21;254:22;258:9;\\ 262:4;263:6;269:1;\\ 272:10;275:25;\\ 280:16;282:15;286:5;\\ \end{array}$	NOC (4) 162:5;218:18; 240:20;243:12 N-O-C (1) 168:21 N-O-C-K (2) 168:21;170:16 nock-nock (8) 168:20;170:15,17; 173:9,10;239:6; 241:6,7 NOC's (2) 241:21;243:3 nominate (1) 73:1 nominated (1) 72:25 nomination (2) 87:10,25 nominations (4)	200:18,21;201:2,11; 202:13,14;222:21; 224:20,22;226:3; 227:11;254:10,16; 255:7,7,7;270:15; 282:21,23;283:6,10; 287:6;288:20;289:21; 292:1,16;293:11; 300:7 NOP-certified (1) 168:24 nope (1) 61:4 NOP-NOSB (1) 30:10 NOP's (4) 30:22;74:17;201:4; 271:5 normal (5) 19:9;123:4;133:25;	NRCS (41) 72:14;74:12,15,22; 75:7,12,18,24;76:1,2; 99:15;103:7;107:13; 114:15,17,19;115:2, 18,21;116:4,7,9,13, 18,21;127:24;130:6; 135:22;138:11; 189:16;190:9,18; 191:16,17,22,23; 192:5;193:19,20; 201:18,21 NRCS's (2) 74:24;75:6 NRCS-specific (1) 114:20 NRDC (1) 186:17 nuanced (1) 287:10	OAK (1) 117:24 Oakland (1) 20:16 OATS (4) 110:10,11;111:8; 195:2 obligation (1) 226:14 observations (1) 68:9 observe (1) 183:13 observers (1) 246:13 obtain (1) 165:4 obtained (1)
$18:15;27:12,16;\\28:19;30:7;67:16;\\69:13;77:2;84:1;\\96:12,16;103:16;\\108:7;112:8;119:8;\\120:1,2;123:10;\\126:21;127:25;\\134:12;135:14;138:2;\\143:3;160:13;163:18;\\168:10;170:15;\\175:20;183:2;188:23;\\194:10;195:22;200:4;\\206:21;213:21;\\214:12;220:15;227:4;\\236:8,18,19,19;\\238:17;246:2;252:18;\\253:21;254:22;258:9;\\262:4;263:6;269:1;\\272:10;275:25;\\280:16;282:15;286:5;\\291:8$	NOC (4) 162:5;218:18; 240:20;243:12 N-O-C (1) 168:21 N-O-C-K (2) 168:21;170:16 nock-nock (8) 168:20;170:15,17; 173:9,10;239:6; 241:6,7 NOC's (2) 241:21;243:3 nominate (1) 73:1 nominated (1) 72:25 nomination (2) 87:10,25 nominations (4) 27:18;44:25;69:13;	200:18,21;201:2,11; 202:13,14;222:21; 224:20,22;226:3; 227:11;254:10,16; 255:7,7,7;270:15; 282:21,23;283:6,10; 287:6;288:20;289:21; 292:1,16;293:11; 300:7 NOP-certified (1) 168:24 nope (1) 61:4 NOP-NOSB (1) 30:10 NOP's (4) 30:22;74:17;201:4; 271:5 normal (5) 19:9;123:4;133:25; 249:7;261:5	NRCS (41) 72:14;74:12,15,22; 75:7,12,18,24;76:1,2; 99:15;103:7;107:13; 114:15,17,19;115:2, 18,21;116:4,7,9,13, 18,21;127:24;130:6; 135:22;138:11; 189:16;190:9,18; 191:16,17,22,23; 192:5;193:19,20; 201:18,21 NRCS's (2) 74:24;75:6 NRCS-specific (1) 114:20 NRDC (1) 186:17 nuanced (1) 287:10 nuances (1)	OAK (1) 117:24 Oakland (1) 20:16 OATS (4) 110:10,11;111:8; 195:2 obligation (1) 226:14 observations (1) 68:9 observe (1) 183:13 observers (1) 246:13 obtain (1) 165:4 obtained (1) 165:2
$\begin{array}{c} 18:15;27:12,16;\\ 28:19;30:7;67:16;\\ 69:13;77:2;84:1;\\ 96:12,16;103:16;\\ 108:7;112:8;119:8;\\ 120:1,2;123:10;\\ 126:21;127:25;\\ 134:12;135:14;138:2;\\ 143:3;160:13;163:18;\\ 168:10;170:15;\\ 175:20;183:2;188:23;\\ 194:10;195:22;200:4;\\ 206:21;213:21;\\ 214:12;220:15;227:4;\\ 236:8,18,19,19;\\ 238:17;246:2;252:18;\\ 253:21;254:22;258:9;\\ 262:4;263:6;269:1;\\ 272:10;275:25;\\ 280:16;282:15;286:5;\\ \end{array}$	NOC (4) 162:5;218:18; 240:20;243:12 N-O-C (1) 168:21 N-O-C-K (2) 168:21;170:16 nock-nock (8) 168:20;170:15,17; 173:9,10;239:6; 241:6,7 NOC's (2) 241:21;243:3 nominate (1) 73:1 nominated (1) 72:25 nomination (2) 87:10,25 nominations (4)	200:18,21;201:2,11; 202:13,14;222:21; 224:20,22;226:3; 227:11;254:10,16; 255:7,7,7;270:15; 282:21,23;283:6,10; 287:6;288:20;289:21; 292:1,16;293:11; 300:7 NOP-certified (1) 168:24 nope (1) 61:4 NOP-NOSB (1) 30:10 NOP's (4) 30:22;74:17;201:4; 271:5 normal (5) 19:9;123:4;133:25; 249:7;261:5 North (6)	NRCS (41) 72:14;74:12,15,22; 75:7,12,18,24;76:1,2; 99:15;103:7;107:13; 114:15,17,19;115:2, 18,21;116:4,7,9,13, 18,21;127:24;130:6; 135:22;138:11; 189:16;190:9,18; 191:16,17,22,23; 192:5;193:19,20; 201:18,21 NRCS's (2) 74:24;75:6 NRCS-specific (1) 114:20 NRDC (1) 186:17 nuanced (1) 287:10	OAK (1) 117:24 Oakland (1) 20:16 OATS (4) 110:10,11;111:8; 195:2 obligation (1) 226:14 observations (1) 68:9 observe (1) 183:13 observers (1) 246:13 obtain (1) 165:4 obtained (1)
$18:15;27:12,16;\\28:19;30:7;67:16;\\69:13;77:2;84:1;\\96:12,16;103:16;\\108:7;112:8;119:8;\\120:1,2;123:10;\\126:21;127:25;\\134:12;135:14;138:2;\\143:3;160:13;163:18;\\168:10;170:15;\\175:20;183:2;188:23;\\194:10;195:22;200:4;\\206:21;213:21;\\214:12;220:15;227:4;\\236:8,18,19,19;\\238:17;246:2;252:18;\\253:21;254:22;258:9;\\262:4;263:6;269:1;\\272:10;275:25;\\280:16;282:15;286:5;\\291:8$	NOC (4) 162:5;218:18; 240:20;243:12 N-O-C (1) 168:21 N-O-C-K (2) 168:21;170:16 nock-nock (8) 168:20;170:15,17; 173:9,10;239:6; 241:6,7 NOC's (2) 241:21;243:3 nominate (1) 73:1 nominated (1) 72:25 nomination (2) 87:10,25 nominations (4) 27:18;44:25;69:13; 87:21	200:18,21;201:2,11; 202:13,14;222:21; 224:20,22;226:3; 227:11;254:10,16; 255:7,7,7;270:15; 282:21,23;283:6,10; 287:6;288:20;289:21; 292:1,16;293:11; 300:7 NOP-certified (1) 168:24 nope (1) 61:4 NOP-NOSB (1) 30:10 NOP's (4) 30:22;74:17;201:4; 271:5 normal (5) 19:9;123:4;133:25; 249:7;261:5 North (6)	NRCS (41) 72:14;74:12,15,22; 75:7,12,18,24;76:1,2; 99:15;103:7;107:13; 114:15,17,19;115:2, 18,21;116:4,7,9,13, 18,21;127:24;130:6; 135:22;138:11; 189:16;190:9,18; 191:16,17,22,23; 192:5;193:19,20; 201:18,21 NRCS's (2) 74:24;75:6 NRCS-specific (1) 114:20 NRDC (1) 186:17 nuanced (1) 287:10 nuances (1) 138:25	OAK (1) 117:24 Oakland (1) 20:16 OATS (4) 110:10,11;111:8; 195:2 obligation (1) 226:14 observations (1) 68:9 observe (1) 183:13 observers (1) 246:13 obtain (1) 165:4 obtained (1) 165:2 obviously (17)
18:15;27:12,16; 28:19;30:7;67:16; 69:13;77:2;84:1; 96:12,16;103:16; 108:7;112:8;119:8; 120:1,2;123:10; 126:21;127:25; 134:12;135:14;138:2; 143:3;160:13;163:18; 168:10;170:15; 175:20;183:2;188:23; 194:10;195:22;200:4; 206:21;213:21; 214:12;220:15;227:4; 236:8,18,19,19; 238:17;246:2;252:18; 253:21;254:22;258:9; 262:4;263:6;269:1; 272:10;275:25; 280:16;282:15;286:5; 291:8 nexus (1) 202:4	NOC (4) 162:5;218:18; 240:20;243:12 N-O-C (1) 168:21 N-O-C-K (2) 168:21;170:16 nock-nock (8) 168:20;170:15,17; 173:9,10;239:6; 241:6,7 NOC's (2) 241:21;243:3 nominate (1) 73:1 nominated (1) 72:25 nomination (2) 87:10,25 nominations (4) 27:18;44:25;69:13; 87:21 non- (4)	200:18,21;201:2,11; 202:13,14;222:21; 224:20,22;226:3; 227:11;254:10,16; 255:7,7,7;270:15; 282:21,23;283:6,10; 287:6;288:20;289:21; 292:1,16;293:11; 300:7 NOP-certified (1) 168:24 nope (1) 61:4 NOP-NOSB (1) 30:10 NOP's (4) 30:22;74:17;201:4; 271:5 normal (5) 19:9;123:4;133:25; 249:7;261:5 North (6) 21:19;143:25;	NRCS (41) 72:14;74:12,15,22; 75:7,12,18,24;76:1,2; 99:15;103:7;107:13; 114:15,17,19;115:2, 18,21;116:4,7,9,13, 18,21;127:24;130:6; 135:22;138:11; 189:16;190:9,18; 191:16,17,22,23; 192:5;193:19,20; 201:18,21 NRCS's (2) 74:24;75:6 NRCS-specific (1) 114:20 NRDC (1) 186:17 nuanced (1) 287:10 nuances (1)	OAK (1) 117:24 Oakland (1) 20:16 OATS (4) 110:10,11;111:8; 195:2 obligation (1) 226:14 observations (1) 68:9 observe (1) 183:13 observers (1) 246:13 obtain (1) 165:4 obtained (1) 165:2 obviously (17) 14:8;23:10;25:7;
18:15;27:12,16; 28:19;30:7;67:16; 69:13;77:2;84:1; 96:12,16;103:16; 108:7;112:8;119:8; 120:1,2;123:10; 126:21;127:25; 134:12;135:14;138:2; 143:3;160:13;163:18; 168:10;170:15; 175:20;183:2;188:23; 194:10;195:22;200:4; 206:21;213:21; 214:12;220:15;227:4; 236:8,18,19,19; 238:17;246:2;252:18; 253:21;254:22;258:9; 262:4;263:6;269:1; 272:10;275:25; 280:16;282:15;286:5; 291:8 nexus (1) 202:4 nice (12)	NOC (4) 162:5;218:18; 240:20;243:12 N-O-C (1) 168:21 N-O-C-K (2) 168:21;170:16 nock-nock (8) 168:20;170:15,17; 173:9,10;239:6; 241:6,7 NOC's (2) 241:21;243:3 nominate (1) 73:1 nominated (1) 72:25 nomination (2) 87:10,25 nominations (4) 27:18;44:25;69:13; 87:21 non- (4) 135:18;147:18;	200:18,21;201:2,11; 202:13,14;222:21; 224:20,22;226:3; 227:11;254:10,16; 255:7,7,7;270:15; 282:21,23;283:6,10; 287:6;288:20;289:21; 292:1,16;293:11; 300:7 NOP-certified (1) 168:24 nope (1) 61:4 NOP-NOSB (1) 30:10 NOP's (4) 30:22;74:17;201:4; 271:5 normal (5) 19:9;123:4;133:25; 249:7;261:5 North (6) 21:19;143:25; 155:8;220:23;269:7;	NRCS (41) 72:14;74:12,15,22; 75:7,12,18,24;76:1,2; 99:15;103:7;107:13; 114:15,17,19;115:2, 18,21;116:4,7,9,13, 18,21;127:24;130:6; 135:22;138:11; 189:16;190:9,18; 191:16,17,22,23; 192:5;193:19,20; 201:18,21 NRCS's (2) 74:24;75:6 NRCS-specific (1) 114:20 NRDC (1) 186:17 nuanced (1) 287:10 nuances (1) 138:25 nudging (1) 250:13	OAK (1) 117:24 Oakland (1) 20:16 OATS (4) 110:10,11;111:8; 195:2 obligation (1) 226:14 observations (1) 68:9 observe (1) 183:13 observers (1) 246:13 obtain (1) 165:4 obtained (1) 165:2 obviously (17) 14:8;23:10;25:7; 111:25;114:9,16,25;
18:15;27:12,16; 28:19;30:7;67:16; 69:13;77:2;84:1; 96:12,16;103:16; 108:7;112:8;119:8; 120:1,2;123:10; 126:21;127:25; 134:12;135:14;138:2; 143:3;160:13;163:18; 168:10;170:15; 175:20;183:2;188:23; 194:10;195:22;200:4; 206:21;213:21; 214:12;220:15;227:4; 236:8,18,19,19; 238:17;246:2;252:18; 253:21;254:22;258:9; 262:4;263:6;269:1; 272:10;275:25; 280:16;282:15;286:5; 291:8 nexus (1) 202:4 nice (12) 30:21;31:1;83:16;	NOC (4) 162:5;218:18; 240:20;243:12 N-O-C (1) 168:21 N-O-C-K (2) 168:21;170:16 nock-nock (8) 168:20;170:15,17; 173:9,10;239:6; 241:6,7 NOC's (2) 241:21;243:3 nominate (1) 73:1 nominated (1) 72:25 nomination (2) 87:10,25 nominations (4) 27:18;44:25;69:13; 87:21 non- (4) 135:18;147:18; 171:9;283:6	200:18,21;201:2,11; 202:13,14;222:21; 224:20,22;226:3; 227:11;254:10,16; 255:7,7,7;270:15; 282:21,23;283:6,10; 287:6;288:20;289:21; 292:1,16;293:11; 300:7 NOP-certified (1) 168:24 nope (1) 61:4 NOP-NOSB (1) 30:10 NOP's (4) 30:22;74:17;201:4; 271:5 normal (5) 19:9;123:4;133:25; 249:7;261:5 North (6) 21:19;143:25; 155:8;220:23;269:7; 300:24	NRCS (41) 72:14;74:12,15,22; 75:7,12,18,24;76:1,2; 99:15;103:7;107:13; 114:15,17,19;115:2, 18,21;116:4,7,9,13, 18,21;127:24;130:6; 135:22;138:11; 189:16;190:9,18; 191:16,17,22,23; 192:5;193:19,20; 201:18,21 NRCS's (2) 74:24;75:6 NRCS-specific (1) 114:20 NRDC (1) 186:17 nuanced (1) 287:10 nuances (1) 138:25 nudging (1) 250:13 number (54)	OAK (1) 117:24 Oakland (1) 20:16 OATS (4) 110:10,11;111:8; 195:2 obligation (1) 226:14 observations (1) 68:9 observe (1) 183:13 observers (1) 246:13 obtain (1) 165:4 obtained (1) 165:2 obviously (17) 14:8;23:10;25:7; 111:25;114:9,16,25; 115:19;131:9;137:16;
18:15;27:12,16; 28:19;30:7;67:16; 69:13;77:2;84:1; 96:12,16;103:16; 108:7;112:8;119:8; 120:1,2;123:10; 126:21;127:25; 134:12;135:14;138:2; 143:3;160:13;163:18; 168:10;170:15; 175:20;183:2;188:23; 194:10;195:22;200:4; 206:21;213:21; 214:12;220:15;227:4; 236:8,18,19,19; 238:17;246:2;252:18; 253:21;254:22;258:9; 262:4;263:6;269:1; 272:10;275:25; 280:16;282:15;286:5; 291:8 nexus (1) 202:4 nice (12) 30:21;31:1;83:16; 95:10,17;116:8;	NOC (4) 162:5;218:18; 240:20;243:12 N-O-C (1) 168:21 N-O-C-K (2) 168:21;170:16 nock-nock (8) 168:20;170:15,17; 173:9,10;239:6; 241:6,7 NOC's (2) 241:21;243:3 nominate (1) 73:1 nominated (1) 72:25 nomination (2) 87:10,25 nominations (4) 27:18;44:25;69:13; 87:21 non- (4) 135:18;147:18; 171:9;283:6 non-agricultural (5)	200:18,21;201:2,11; 202:13,14;222:21; 224:20,22;226:3; 227:11;254:10,16; 255:7,7,7;270:15; 282:21,23;283:6,10; 287:6;288:20;289:21; 292:1,16;293:11; 300:7 NOP-certified (1) 168:24 nope (1) 61:4 NOP-NOSB (1) 30:10 NOP's (4) 30:22;74:17;201:4; 271:5 normal (5) 19:9;123:4;133:25; 249:7;261:5 North (6) 21:19;143:25; 155:8;220:23;269:7; 300:24 northeast (2)	NRCS (41) 72:14;74:12,15,22; 75:7,12,18,24;76:1,2; 99:15;103:7;107:13; 114:15,17,19;115:2, 18,21;116:4,7,9,13, 18,21;127:24;130:6; 135:22;138:11; 189:16;190:9,18; 191:16,17,22,23; 192:5;193:19,20; 201:18,21 NRCS's (2) 74:24;75:6 NRCS-specific (1) 114:20 NRDC (1) 186:17 nuanced (1) 287:10 nuances (1) 138:25 nudging (1) 250:13 number (54) 6:23;10:10,17;13:3,	OAK (1) 117:24 Oakland (1) 20:16 OATS (4) 110:10,11;111:8; 195:2 obligation (1) 226:14 observations (1) 68:9 observe (1) 183:13 observers (1) 246:13 obtain (1) 165:4 obtained (1) 165:2 obviously (17) 14:8;23:10;25:7; 111:25;114:9,16,25; 15:19;131:9;137:16; 177:2;181:22;199:22;
18:15;27:12,16; 28:19;30:7;67:16; 69:13;77:2;84:1; 96:12,16;103:16; 108:7;112:8;119:8; 120:1,2;123:10; 126:21;127:25; 134:12;135:14;138:2; 143:3;160:13;163:18; 168:10;170:15; 175:20;183:2;188:23; 194:10;195:22;200:4; 206:21;213:21; 214:12;220:15;227:4; 236:8,18,19,19; 238:17;246:2;252:18; 253:21;254:22;258:9; 262:4;263:6;269:1; 272:10;275:25; 280:16;282:15;286:5; 291:8 nexus (1) 202:4 nice (12) 30:21;31:1;83:16; 95:10,17;116:8; 126:22;127:18;136:6;	NOC (4) 162:5;218:18; 240:20;243:12 N-O-C (1) 168:21 N-O-C-K (2) 168:21;170:16 nock-nock (8) 168:20;170:15,17; 173:9,10;239:6; 241:6,7 NOC's (2) 241:21;243:3 nominate (1) 73:1 nominated (1) 72:25 nomination (2) 87:10,25 nominations (4) 27:18;44:25;69:13; 87:21 non- (4) 135:18;147:18; 171:9;283:6 non-agricultural (5) 171:8,12,17,25;	200:18,21;201:2,11; 202:13,14;222:21; 224:20,22;226:3; 227:11;254:10,16; 255:7,7,7;270:15; 282:21,23;283:6,10; 287:6;288:20;289:21; 292:1,16;293:11; 300:7 NOP-certified (1) 168:24 nope (1) 61:4 NOP-NOSB (1) 30:10 NOP's (4) 30:22;74:17;201:4; 271:5 normal (5) 19:9;123:4;133:25; 249:7;261:5 North (6) 21:19;143:25; 155:8;220:23;269:7; 300:24 northeast (2) 95:15;121:16	NRCS (41) 72:14;74:12,15,22; 75:7,12,18,24;76:1,2; 99:15;103:7;107:13; 114:15,17,19;115:2, 18,21;116:4,7,9,13, 18,21;127:24;130:6; 135:22;138:11; 189:16;190:9,18; 191:16,17,22,23; 192:5;193:19,20; 201:18,21 NRCS's (2) 74:24;75:6 NRCS-specific (1) 114:20 NRDC (1) 186:17 nuanced (1) 287:10 nuances (1) 138:25 nudging (1) 250:13 number (54) 6:23;10:10,17;13:3, 4;15:14;17:9;43:24;	OAK (1) 117:24 Oakland (1) 20:16 OATS (4) 110:10,11;111:8; 195:2 obligation (1) 226:14 observations (1) 68:9 observe (1) 183:13 observers (1) 246:13 obtain (1) 165:4 obtained (1) 165:2 obviously (17) 14:8;23:10;25:7; 111:25;114:9,16,25; 15:19;131:9;137:16; 177:2;181:22;199:22; 216:5;229:16;230:21;
$\begin{array}{c} 18:15;27:12,16;\\ 28:19;30:7;67:16;\\ 69:13;77:2;84:1;\\ 96:12,16;103:16;\\ 108:7;112:8;119:8;\\ 120:1,2;123:10;\\ 126:21;127:25;\\ 134:12;135:14;138:2;\\ 143:3;160:13;163:18;\\ 168:10;170:15;\\ 175:20;183:2;188:23;\\ 194:10;195:22;200:4;\\ 206:21;213:21;\\ 214:12;220:15;227:4;\\ 236:8,18,19,19;\\ 238:17;246:2;252:18;\\ 253:21;254:22;258:9;\\ 262:4;263:6;269:1;\\ 272:10;275:25;\\ 280:16;282:15;286:5;\\ 291:8\\ \textbf{nexus (1)}\\ 202:4\\ \textbf{nice (12)}\\ 30:21;31:1;83:16;\\ 95:10,17;116:8;\\ 126:22;127:18;136:6;\\ 174:17;177:1;209:23\end{array}$	NOC (4) 162:5;218:18; 240:20;243:12 N-O-C (1) 168:21 N-O-C-K (2) 168:21;170:16 nock-nock (8) 168:20;170:15,17; 173:9,10;239:6; 241:6,7 NOC's (2) 241:21;243:3 nominate (1) 73:1 nominated (1) 72:25 nomination (2) 87:10,25 nominations (4) 27:18;44:25;69:13; 87:21 non- (4) 135:18;147:18; 171:9;283:6 non-agricultural (5) 171:8,12,17,25; 248:3	200:18,21;201:2,11; 202:13,14;222:21; 224:20,22;226:3; 227:11;254:10,16; 255:7,7,7;270:15; 282:21,23;283:6,10; 287:6;288:20;289:21; 292:1,16;293:11; 300:7 NOP-certified (1) 168:24 nope (1) 61:4 NOP-NOSB (1) 30:10 NOP's (4) 30:22;74:17;201:4; 271:5 normal (5) 19:9;123:4;133:25; 249:7;261:5 North (6) 21:19;143:25; 155:8;220:23;269:7; 300:24 northeast (2)	NRCS (41) 72:14;74:12,15,22; 75:7,12,18,24;76:1,2; 99:15;103:7;107:13; 114:15,17,19;115:2, 18,21;116:4,7,9,13, 18,21;127:24;130:6; 135:22;138:11; 189:16;190:9,18; 191:16,17,22,23; 192:5;193:19,20; 201:18,21 NRCS's (2) 74:24;75:6 NRCS-specific (1) 114:20 NRDC (1) 186:17 nuanced (1) 287:10 nuances (1) 138:25 nudging (1) 250:13 number (54) 6:23;10:10,17;13:3, 4;15:14;17:9;43:24; 44:1;45:13;46:19;	OAK (1) 117:24 Oakland (1) 20:16 OATS (4) 110:10,11;111:8; 195:2 obligation (1) 226:14 observations (1) 68:9 observe (1) 183:13 observers (1) 246:13 obtain (1) 165:4 obtained (1) 165:2 obviously (17) 14:8;23:10;25:7; 111:25;114:9,16,25; 115:19;131:9;137:16; 177:2;181:22;199:22; 216:5;229:16;230:21; 238:1
18:15;27:12,16; 28:19;30:7;67:16; 69:13;77:2;84:1; 96:12,16;103:16; 108:7;112:8;119:8; 120:1,2;123:10; 126:21;127:25; 134:12;135:14;138:2; 143:3;160:13;163:18; 168:10;170:15; 175:20;183:2;188:23; 194:10;195:22;200:4; 206:21;213:21; 214:12;220:15;227:4; 236:8,18,19,19; 238:17;246:2;252:18; 253:21;254:22;258:9; 262:4;263:6;269:1; 272:10;275:25; 280:16;282:15;286:5; 291:8 nexus (1) 202:4 nice (12) 30:21;31:1;83:16; 95:10,17;116:8; 126:22;127:18;136:6;	NOC (4) 162:5;218:18; 240:20;243:12 N-O-C (1) 168:21 N-O-C-K (2) 168:21;170:16 nock-nock (8) 168:20;170:15,17; 173:9,10;239:6; 241:6,7 NOC's (2) 241:21;243:3 nominate (1) 73:1 nominated (1) 72:25 nomination (2) 87:10,25 nominations (4) 27:18;44:25;69:13; 87:21 non- (4) 135:18;147:18; 171:9;283:6 non-agricultural (5) 171:8,12,17,25; 248:3	200:18,21;201:2,11; 202:13,14;222:21; 224:20,22;226:3; 227:11;254:10,16; 255:7,7,7;270:15; 282:21,23;283:6,10; 287:6;288:20;289:21; 292:1,16;293:11; 300:7 NOP-certified (1) 168:24 nope (1) 61:4 NOP-NOSB (1) 30:10 NOP's (4) 30:22;74:17;201:4; 271:5 normal (5) 19:9;123:4;133:25; 249:7;261:5 North (6) 21:19;143:25; 155:8;220:23;269:7; 300:24 northeast (2) 95:15;121:16	NRCS (41) 72:14;74:12,15,22; 75:7,12,18,24;76:1,2; 99:15;103:7;107:13; 114:15,17,19;115:2, 18,21;116:4,7,9,13, 18,21;127:24;130:6; 135:22;138:11; 189:16;190:9,18; 191:16,17,22,23; 192:5;193:19,20; 201:18,21 NRCS's (2) 74:24;75:6 NRCS-specific (1) 114:20 NRDC (1) 186:17 nuanced (1) 287:10 nuances (1) 138:25 nudging (1) 250:13 number (54) 6:23;10:10,17;13:3, 4;15:14;17:9;43:24;	OAK (1) 117:24 Oakland (1) 20:16 OATS (4) 110:10,11;111:8; 195:2 obligation (1) 226:14 observations (1) 68:9 observe (1) 183:13 observers (1) 246:13 obtain (1) 165:4 obtained (1) 165:2 obviously (17) 14:8;23:10;25:7; 111:25;114:9,16,25; 115:19;131:9;137:16; 177:2;181:22;199:22; 216:5;229:16;230:21; 238:1
18:15;27:12,16; 28:19;30:7;67:16; 69:13;77:2;84:1; 96:12,16;103:16; 108:7;112:8;119:8; 120:1,2;123:10; 126:21;127:25; 134:12;135:14;138:2; 143:3;160:13;163:18; 168:10;170:15; 175:20;183:2;188:23; 194:10;195:22;200:4; 206:21;213:21; 214:12;220:15;227:4; 236:8,18,19,19; 238:17;246:2;252:18; 253:21;254:22;258:9; 262:4;263:6;269:1; 272:10;275:25; 280:16;282:15;286:5; 291:8 nexus (1) 202:4 nice (12) 30:21;31:1;83:16; 95:10,17;116:8; 126:22;127:18;136:6; 174:17;177:1;209:23 nicely (2)	NOC (4) 162:5;218:18; 240:20;243:12 N-O-C (1) 168:21 N-O-C-K (2) 168:21;170:16 nock-nock (8) 168:20;170:15,17; 173:9,10;239:6; 241:6,7 NOC's (2) 241:21;243:3 nominate (1) 73:1 nominated (1) 72:25 nomination (2) 87:10,25 nominations (4) 27:18;44:25;69:13; 87:21 non- (4) 135:18;147:18; 171:9;283:6 non-agricultural (5) 171:8,12,17,25; 248:3 noncompliance (1)	200:18,21;201:2,11; 202:13,14;222:21; 224:20,22;226:3; 227:11;254:10,16; 255:7,7,7;270:15; 282:21,23;283:6,10; 287:6;288:20;289:21; 292:1,16;293:11; 300:7 NOP-certified (1) 168:24 nope (1) 61:4 NOP-NOSB (1) 30:10 NOP's (4) 30:22;74:17;201:4; 271:5 normal (5) 19:9;123:4;133:25; 249:7;261:5 North (6) 21:19;143:25; 155:8;220:23;269:7; 300:24 northeast (2) 95:15;121:16 northern (2) 21:23;258:13	NRCS (41) 72:14;74:12,15,22; 75:7,12,18,24;76:1,2; 99:15;103:7;107:13; 114:15,17,19;115:2, 18,21;116:4,7,9,13, 18,21;127:24;130:6; 135:22;138:11; 189:16;190:9,18; 191:16,17,22,23; 192:5;193:19,20; 201:18,21 NRCS's (2) 74:24;75:6 NRCS-specific (1) 114:20 NRDC (1) 186:17 nuanced (1) 287:10 nuances (1) 138:25 nudging (1) 250:13 number (54) 6:23;10:10,17;13:3, 4;15:14;17:9;43:24; 44:1;45:13;46:19; 56:2,4,4,19;59:14,15;	OAK (1) 117:24 Oakland (1) 20:16 OATS (4) 110:10,11;111:8; 195:2 obligation (1) 226:14 observations (1) 68:9 observe (1) 183:13 observers (1) 246:13 obtain (1) 165:4 obtained (1) 165:2 obviously (17) 14:8;23:10;25:7; 111:25;114:9,16,25; 115:19;131:9;137:16; 177:2;181:22;199:22; 216:5;229:16;230:21; 238:1 occasionally (2)
18:15;27:12,16; 28:19;30:7;67:16; 69:13;77:2;84:1; 96:12,16;103:16; 108:7;112:8;119:8; 120:1,2;123:10; 126:21;127:25; 134:12;135:14;138:2; 143:3;160:13;163:18; 168:10;170:15; 175:20;183:2;188:23; 194:10;195:22;200:4; 206:21;213:21; 214:12;220:15;227:4; 236:8,18,19,19; 238:17;246:2;252:18; 253:21;254:22;258:9; 262:4;263:6;269:1; 272:10;275:25; 280:16;282:15;286:5; 291:8 nexus (1) 202:4 nice (12) 30:21;31:1;83:16; 95:10,17;116:8; 126:22;127:18;136:6; 174:17;177:1;209:23 nicely (2) 114:13;117:2	NOC (4) 162:5;218:18; 240:20;243:12 N-O-C (1) 168:21 N-O-C-K (2) 168:21;170:16 nock-nock (8) 168:20;170:15,17; 173:9,10;239:6; 241:6,7 NOC's (2) 241:21;243:3 nominate (1) 73:1 nominated (1) 72:25 nomination (2) 87:10,25 nominations (4) 27:18;44:25;69:13; 87:21 non- (4) 135:18;147:18; 171:9;283:6 non-agricultural (5) 171:8,12,17,25; 248:3 noncompliance (1) 299:24	200:18,21;201:2,11; 202:13,14;222:21; 224:20,22;226:3; 227:11;254:10,16; 255:7,7,7;270:15; 282:21,23;283:6,10; 287:6;288:20;289:21; 292:1,16;293:11; 300:7 NOP-certified (1) 168:24 nope (1) 61:4 NOP-NOSB (1) 30:10 NOP's (4) 30:22;74:17;201:4; 271:5 normal (5) 19:9;123:4;133:25; 249:7;261:5 North (6) 21:19;143:25; 155:8;220:23;269:7; 300:24 northeast (2) 95:15;121:16 northern (2) 21:23;258:13 NOSB (46)	NRCS (41) 72:14;74:12,15,22; 75:7,12,18,24;76:1,2; 99:15;103:7;107:13; 114:15,17,19;115:2, 18,21;116:4,7,9,13, 18,21;127:24;130:6; 135:22;138:11; 189:16;190:9,18; 191:16,17,22,23; 192:5;193:19,20; 201:18,21 NRCS's (2) 74:24;75:6 NRCS-specific (1) 114:20 NRDC (1) 186:17 nuanced (1) 287:10 nuances (1) 138:25 nudging (1) 250:13 number (54) 6:23;10:10,17;13:3, 4;15:14;17:9;43:24; 44:1;45:13;46:19; 56:2,4,4,19;59:14,15; 69:25;74:4,5;77:10;	OAK (1) 117:24 Oakland (1) 20:16 OATS (4) 110:10,11;111:8; 195:2 obligation (1) 226:14 observations (1) 68:9 observe (1) 183:13 observers (1) 246:13 obtain (1) 165:4 obtained (1) 165:2 obviously (17) 14:8;23:10;25:7; 111:25;114:9,16,25; 115:19;131:9;137:16; 177:2;181:22;199:22; 216:5;229:16;230:21; 238:1 occasionally (2) 60:3;239:1
18:15;27:12,16; 28:19;30:7;67:16; 69:13;77:2;84:1; 96:12,16;103:16; 108:7;112:8;119:8; 120:1,2;123:10; 126:21;127:25; 134:12;135:14;138:2; 143:3;160:13;163:18; 168:10;170:15; 175:20;183:2;188:23; 194:10;195:22;200:4; 206:21;213:21; 214:12;220:15;227:4; 236:8,18,19,19; 238:17;246:2;252:18; 253:21;254:22;258:9; 262:4;263:6;269:1; 272:10;275:25; 280:16;282:15;286:5; 291:8 nexus (1) 202:4 nice (12) 30:21;31:1;83:16; 95:10,17;116:8; 126:22;127:18;136:6; 174:17;177:1;209:23 nicely (2)	NOC (4) 162:5;218:18; 240:20;243:12 N-O-C (1) 168:21 N-O-C-K (2) 168:21;170:16 nock-nock (8) 168:20;170:15,17; 173:9,10;239:6; 241:6,7 NOC's (2) 241:21;243:3 nominate (1) 73:1 nominated (1) 72:25 nomination (2) 87:10,25 nominations (4) 27:18;44:25;69:13; 87:21 non- (4) 135:18;147:18; 171:9;283:6 non-agricultural (5) 171:8,12,17,25; 248:3 noncompliance (1)	200:18,21;201:2,11; 202:13,14;222:21; 224:20,22;226:3; 227:11;254:10,16; 255:7,7,7;270:15; 282:21,23;283:6,10; 287:6;288:20;289:21; 292:1,16;293:11; 300:7 NOP-certified (1) 168:24 nope (1) 61:4 NOP-NOSB (1) 30:10 NOP's (4) 30:22;74:17;201:4; 271:5 normal (5) 19:9;123:4;133:25; 249:7;261:5 North (6) 21:19;143:25; 155:8;220:23;269:7; 300:24 northeast (2) 95:15;121:16 northern (2) 21:23;258:13	NRCS (41) 72:14;74:12,15,22; 75:7,12,18,24;76:1,2; 99:15;103:7;107:13; 114:15,17,19;115:2, 18,21;116:4,7,9,13, 18,21;127:24;130:6; 135:22;138:11; 189:16;190:9,18; 191:16,17,22,23; 192:5;193:19,20; 201:18,21 NRCS's (2) 74:24;75:6 NRCS-specific (1) 114:20 NRDC (1) 186:17 nuanced (1) 287:10 nuances (1) 138:25 nudging (1) 250:13 number (54) 6:23;10:10,17;13:3, 4;15:14;17:9;43:24; 44:1;45:13;46:19; 56:2,4,4,19;59:14,15;	OAK (1) 117:24 Oakland (1) 20:16 OATS (4) 110:10,11;111:8; 195:2 obligation (1) 226:14 observations (1) 68:9 observe (1) 183:13 observers (1) 246:13 obtain (1) 165:4 obtained (1) 165:2 obviously (17) 14:8;23:10;25:7; 111:25;114:9,16,25; 115:19;131:9;137:16; 177:2;181:22;199:22; 216:5;229:16;230:21; 238:1 occasionally (2)

Burke Court Reporting & Transcription (973) 692-0660

(33) networks - occurred

- Vol. 3 April 29, 2024

151:9	264:10;299:13	97:23;101:15;102:3;	68:10,10;72:6;73:14;	51:23;52:21;53:12,
occurring (1)	offshore (1)	109:17;112:2;117:16;	84:8,8;87:3,11;	13;56:12;68:25;79:2,
164:24	184:11	118:20;119:6;121:3;	100:10;104:5;118:8;	9,20,22;81:11,18;
Ocean (2)	OFRF (1)	126:9;127:11;128:17;	123:8;126:13;132:4;	82:17,24;89:12,18;
178:24;182:12	285:19	129:14;133:2;134:7;	137:8;140:21;143:16;	90:3,6,12;100:5;
OCIA (1)	often (13)	135:5;136:7;137:21;	146:9;154:17;164:19;	106:9;118:20;161:17;
134:8	53:25;65:14;84:16;	138:19;139:5;141:15;	177:5;180:2;187:6;	162:5,16,18,23,24;
Oconomowoc (1)	109:8;119:23;120:6;	146:25;147:3,23,24;	190:16;194:2;228:8;	165:7;200:23,24;
263:11	207:21;210:20;	150:15,16,25;153:20;	229:16;240:4;246:11;	247:13:259:14;
October (2)	212:10;222:6;228:24;	164:12;165:5;169:6;	248:10,16;257:24;	268:16;290:3
98:11,16	279:21;294:10	173:2,9;174:8;	270:3;273:5;277:6;	opinion (8)
OECD (1)	oftentimes (4)	178:25;179:1,12;	294:1;295:19;296:6;	92:16;125:11;
154:22	40:8;196:3;199:18;	184:14;185:8;186:7;	297:12,14;298:15	178:9;249:4;261:20;
OFA (15)	265:2	187:6;192:3;193:16,	on-one (1)	265:19;285:4;290:9
160:17;161:11,14;	Ohio (3)	17;194:3,3;195:10;	115:4	opinions (2)
162:1;163:12;194:19;	100:7;298:2;300:25	198:15,25;200:16;	on-ramp (2)	73:13;90:24
200:9,14;201:19,23;	OID (11)	203:18,25;204:22;	62:14;71:15	opportunities (14)
202:9,14;204:19;	66:1;79:3;86:21;	209:17;212:8,13;	on-site (2)	8:11;9:17;40:12;
254:9;255:6	164:6,8,13,22;165:6,	214:7,19;217:22;	71:20;109:15	101:9;104:3;106:18;
OFARM (1)	14,18;166:14	218:6;223:5,10,11,17;	onslaught (1)	107:5;117:18;122:19;
129:15	OID- (1)	225:6;228:16;229:2,	235:13	127:13;205:12;237:5;
OFA's (1)	164:11	11,17;232:12,24;	Ontario (1)	293:24;294:5
203:13	oil (4)	234:7;236:19,19,19;	155:9	opportunity (30)
off (25)	19:13;145:12;	239:19;244:20;	onto (2)	12:6;29:7;31:2;
16:6;24:3;39:16;	181:22;271:20	248:24;249:3,14;	171:23;268:22	42:14;86:18;99:5,8,
41:11;43:2;47:19;	oils (1)	254:13,13;261:21;	Oops (1)	24;108:23;111:14;
59:4;68:19;71:20;	19:14	264:25;265:8;266:23,	241:18	122:10;126:7,22;
72:3;96:10;98:21;	Ok (1)	25;274:2;279:3,23,	open (14)	160:19;164:1;181:15;
117:24;119:6;126:6;	95:2	25;282:11;286:11;	6:14;66:4;125:3;	190:7;200:7;202:17;
166:14;175:8,16;	old (1)	287:9,23;288:1;	128:4;132:4;152:9;	220:19;222:15;236:9;
179:9;181:6;182:5;	263:14	289:15;290:22;294:1,	153:18;154:1;159:10;	247:22;250:10,11;
184:11;236:17;266:8;	Oliver (5)	2;297:2,14;299:5	183:12;198:12;	272:18;283:23;291:5;
301:13	187:25,25;188:2,4,	one- (3)	221:15,16,21	293:9;294:24
offer (10)	4	102:13;115:3;	opened (5)	opposite (1)
9:20;11:22,22;	Olympia (1)	138:24	48:20;96:17;	25:25
126:7;131:21;174:1;	20:5	one-on-one (1)	122:18;136:23;169:5	OPs (3)
179:5;202:8;270:20;	OMRI (1)	123:1	open-ended (1)	236:13,16,20
272:24	264:6	onerous (1)	161:8	optimism (1)
offered (3)	OMRI-listed (1)	259:22	opening (4)	91:6
71:11;118:24;	268:11	ones (4)	7:21;9:7;16:14;	optimistic (1)
193:10	once (15)	50:3;236:21;	136:25	261:9
offering (4)	6:20;15:22;25:1;	267:13;292:2 one's (5)	operate (3)	optimum (1)
126:18;219:17;	26:3;52:4;71:19,21;	one's (5)		
	111.7.100.12.120.2.		75:1;121:16;298:6	296:18
254:16;274:11	111:7;122:13;139:3;	25:10;70:6;141:19;	operates (1)	option (3)
offers (1)	142:11;171:16;	25:10;70:6;141:19; 168:21;250:10	operates (1) 9:11	option (3) 145:3;172:17;
offers (1) 222:22	142:11;171:16; 254:18;267:4;300:4	25:10;70:6;141:19; 168:21;250:10 one-to-one (4)	operates (1) 9:11 operating (6)	option (3) 145:3;172:17; 270:18
offers (1) 222:22 off-farm (1)	142:11;171:16; 254:18;267:4;300:4 on-deck (2)	25:10;70:6;141:19; 168:21;250:10 one-to-one (4) 69:16;104:3;114:9,	operates (1) 9:11 operating (6) 75:23;133:25;	option (3) 145:3;172:17; 270:18 options (5)
offers (1) 222:22 off-farm (1) 292:9	142:11;171:16; 254:18;267:4;300:4 on-deck (2) 143:3,5	25:10;70:6;141:19; 168:21;250:10 one-to-one (4) 69:16;104:3;114:9, 25	operates (1) 9:11 operating (6) 75:23;133:25; 195:13,17;196:5;	option (3) 145:3;172:17; 270:18 options (5) 174:7;197:15;
offers (1) 222:22 off-farm (1) 292:9 Office (11)	142:11;171:16; 254:18;267:4;300:4 on-deck (2) 143:3,5 one (157)	25:10;70:6;141:19; 168:21;250:10 one-to-one (4) 69:16;104:3;114:9, 25 on-farm (1)	operates (1) 9:11 operating (6) 75:23;133:25; 195:13,17;196:5; 246:10	option (3) 145:3;172:17; 270:18 options (5) 174:7;197:15; 269:24;270:11;
offers (1) 222:22 off-farm (1) 292:9 Office (11) 8:16;18:4;75:13;	142:11;171:16; 254:18;267:4;300:4 on-deck (2) 143:3,5 one (157) 10:10;12:2;13:3;	25:10;70:6;141:19; 168:21;250:10 one-to-one (4) 69:16;104:3;114:9, 25 on-farm (1) 102:11	operates (1) 9:11 operating (6) 75:23;133:25; 195:13,17;196:5; 246:10 operation (29)	option (3) 145:3;172:17; 270:18 options (5) 174:7;197:15; 269:24;270:11; 295:23
offers (1) 222:22 off-farm (1) 292:9 Office (11) 8:16;18:4;75:13; 107:13;114:23;	142:11;171:16; 254:18;267:4;300:4 on-deck (2) 143:3,5 one (157) 10:10;12:2;13:3; 14:12;19:16;21:12;	25:10;70:6;141:19; 168:21;250:10 one-to-one (4) 69:16;104:3;114:9, 25 on-farm (1) 102:11 ongoing (8)	operates (1) 9:11 operating (6) 75:23;133:25; 195:13,17;196:5; 246:10 operation (29) 46:5,7;60:16;66:6;	option (3) 145:3;172:17; 270:18 options (5) 174:7;197:15; 269:24;270:11; 295:23 oral (4)
offers (1) 222:22 off-farm (1) 292:9 Office (11) 8:16;18:4;75:13; 107:13;114:23; 127:24;136:9,13,16;	142:11;171:16; 254:18;267:4;300:4 on-deck (2) 143:3,5 one (157) 10:10;12:2;13:3; 14:12;19:16;21:12; 24:13,24;25:1;26:11;	25:10;70:6;141:19; 168:21;250:10 one-to-one (4) 69:16;104:3;114:9, 25 on-farm (1) 102:11 ongoing (8) 26:14,15;30:20;	operates (1) 9:11 operating (6) 75:23;133:25; 195:13,17;196:5; 246:10 operation (29) 46:5,7;60:16;66:6; 71:22;72:3,5;79:18,	option (3) 145:3;172:17; 270:18 options (5) 174:7;197:15; 269:24;270:11; 295:23 oral (4) 24:5;203:15;241:1;
offers (1) 222:22 off-farm (1) 292:9 Office (11) 8:16;18:4;75:13; 107:13;114:23; 127:24;136:9,13,16; 164:25;276:7	142:11;171:16; 254:18;267:4;300:4 on-deck (2) 143:3,5 one (157) 10:10;12:2;13:3; 14:12;19:16;21:12; 24:13,24;25:1;26:11; 27:21,22,22;37:5;	25:10;70:6;141:19; 168:21;250:10 one-to-one (4) 69:16;104:3;114:9, 25 on-farm (1) 102:11 ongoing (8) 26:14,15;30:20; 92:21;111:12;113:6;	operates (1) 9:11 operating (6) 75:23;133:25; 195:13,17;196:5; 246:10 operation (29) 46:5,7;60:16;66:6; 71:22;72:3,5;79:18, 19;80:2,21;84:11,12;	option (3) 145:3;172:17; 270:18 options (5) 174:7;197:15; 269:24;270:11; 295:23 oral (4) 24:5;203:15;241:1; 251:24
offers (1) 222:22 off-farm (1) 292:9 Office (11) 8:16;18:4;75:13; 107:13;114:23; 127:24;136:9,13,16; 164:25;276:7 officer (2)	142:11;171:16; 254:18;267:4;300:4 on-deck (2) 143:3,5 one (157) 10:10;12:2;13:3; 14:12;19:16;21:12; 24:13,24;25:1;26:11; 27:21,22,22;37:5; 39:14,17,20;40:12;	25:10;70:6;141:19; 168:21;250:10 one-to-one (4) 69:16;104:3;114:9, 25 on-farm (1) 102:11 ongoing (8) 26:14,15;30:20; 92:21;111:12;113:6; 201:5;226:22	operates (1) 9:11 operating (6) 75:23;133:25; 195:13,17;196:5; 246:10 operation (29) 46:5,7;60:16;66:6; 71:22;72:3,5;79:18, 19;80:2,21;84:11,12; 85:2;120:13;127:12;	option (3) 145:3;172:17; 270:18 options (5) 174:7;197:15; 269:24;270:11; 295:23 oral (4) 24:5;203:15;241:1; 251:24 ORDER (19)
offers (1) 222:22 off-farm (1) 292:9 Office (11) 8:16;18:4;75:13; 107:13;114:23; 127:24;136:9,13,16; 164:25;276:7 officer (2) 6:19;246:10	142:11;171:16; 254:18;267:4;300:4 on-deck (2) 143:3,5 one (157) 10:10;12:2;13:3; 14:12;19:16;21:12; 24:13,24;25:1;26:11; 27:21,22,22;37:5; 39:14,17,20;40:12; 41:18;42:15;44:11;	25:10;70:6;141:19; 168:21;250:10 one-to-one (4) 69:16;104:3;114:9, 25 on-farm (1) 102:11 ongoing (8) 26:14,15;30:20; 92:21;111:12;113:6; 201:5;226:22 online (13)	operates (1) 9:11 operating (6) 75:23;133:25; 195:13,17;196:5; 246:10 operation (29) 46:5,7;60:16;66:6; 71:22;72:3,5;79:18, 19;80:2,21;84:11,12; 85:2;120:13;127:12; 164:12;165:5,14;	option (3) 145:3;172:17; 270:18 options (5) 174:7;197:15; 269:24;270:11; 295:23 oral (4) 24:5;203:15;241:1; 251:24 ORDER (19) 6:4;53:15,16;69:1;
offers (1) 222:22 off-farm (1) 292:9 Office (11) 8:16;18:4;75:13; 107:13;114:23; 127:24;136:9,13,16; 164:25;276:7 officer (2) 6:19;246:10 offices (4)	142:11;171:16; 254:18;267:4;300:4 on-deck (2) 143:3,5 one (157) 10:10;12:2;13:3; 14:12;19:16;21:12; 24:13,24;25:1;26:11; 27:21,22,22;37:5; 39:14,17,20;40:12; 41:18;42:15;44:11; 48:15;49:25;51:2;	25:10;70:6;141:19; 168:21;250:10 one-to-one (4) 69:16;104:3;114:9, 25 on-farm (1) 102:11 ongoing (8) 26:14,15;30:20; 92:21;111:12;113:6; 201:5;226:22 online (13) 6:13;9:19;17:15;	operates (1) 9:11 operating (6) 75:23;133:25; 195:13,17;196:5; 246:10 operation (29) 46:5,7;60:16;66:6; 71:22;72:3,5;79:18, 19;80:2,21;84:11,12; 85:2;120:13;127:12; 164:12;165:5,14; 166:7,10,14,18;	option (3) 145:3;172:17; 270:18 options (5) 174:7;197:15; 269:24;270:11; 295:23 oral (4) 24:5;203:15;241:1; 251:24 ORDER (19) 6:4;53:15,16;69:1; 81:2;115:15;131:15;
offers (1) 222:22 off-farm (1) 292:9 Office (11) 8:16;18:4;75:13; 107:13;114:23; 127:24;136:9,13,16; 164:25;276:7 officer (2) 6:19;246:10 offices (4) 107:18;136:18,22;	142:11;171:16; 254:18;267:4;300:4 on-deck (2) 143:3,5 one (157) 10:10;12:2;13:3; 14:12;19:16;21:12; 24:13,24;25:1;26:11; 27:21,22,22;37:5; 39:14,17,20;40:12; 41:18;42:15;44:11; 48:15;49:25;51:2; 61:9;63:14;65:18;	25:10;70:6;141:19; 168:21;250:10 one-to-one (4) 69:16;104:3;114:9, 25 on-farm (1) 102:11 ongoing (8) 26:14,15;30:20; 92:21;111:12;113:6; 201:5;226:22 online (13) 6:13;9:19;17:15; 32:22;35:3;38:7;42:3;	operates (1) 9:11 operating (6) 75:23;133:25; 195:13,17;196:5; 246:10 operation (29) 46:5,7;60:16;66:6; 71:22;72:3,5;79:18, 19;80:2,21;84:11,12; 85:2;120:13;127:12; 164:12;165:5,14; 166:7,10,14,18; 197:17;207:16;	option (3) 145:3;172:17; 270:18 options (5) 174:7;197:15; 269:24;270:11; 295:23 oral (4) 24:5;203:15;241:1; 251:24 ORDER (19) 6:4;53:15,16;69:1; 81:2;115:15;131:15; 143:2,16;147:5;
offers (1) 222:22 off-farm (1) 292:9 Office (11) 8:16;18:4;75:13; 107:13;114:23; 127:24;136:9,13,16; 164:25;276:7 officer (2) 6:19;246:10 offices (4) 107:18;136:18,22; 192:1	142:11;171:16; 254:18;267:4;300:4 on-deck (2) 143:3,5 one (157) 10:10;12:2;13:3; 14:12;19:16;21:12; 24:13,24;25:1;26:11; 27:21,22,22;37:5; 39:14,17,20;40:12; 41:18;42:15;44:11; 48:15;49:25;51:2; 61:9;63:14;65:18; 67:5;70:4,5,12;72:2;	25:10;70:6;141:19; 168:21;250:10 one-to-one (4) 69:16;104:3;114:9, 25 on-farm (1) 102:11 ongoing (8) 26:14,15;30:20; 92:21;111:12;113:6; 201:5;226:22 online (13) 6:13;9:19;17:15; 32:22;35:3;38:7;42:3; 44:8;51:20,21;	operates (1) 9:11 operating (6) 75:23;133:25; 195:13,17;196:5; 246:10 operation (29) 46:5,7;60:16;66:6; 71:22;72:3,5;79:18, 19;80:2,21;84:11,12; 85:2;120:13;127:12; 164:12;165:5,14; 166:7,10,14,18; 197:17;207:16; 212:17;252:15;	option (3) 145:3;172:17; 270:18 options (5) 174:7;197:15; 269:24;270:11; 295:23 oral (4) 24:5;203:15;241:1; 251:24 ORDER (19) 6:4;53:15,16;69:1; 81:2;115:15;131:15; 143:2,16;147:5; 170:9;177:16,17;
offers (1) 222:22 off-farm (1) 292:9 Office (11) 8:16;18:4;75:13; 107:13;114:23; 127:24;136:9,13,16; 164:25;276:7 officer (2) 6:19;246:10 offices (4) 107:18;136:18,22;	142:11;171:16; 254:18;267:4;300:4 on-deck (2) 143:3,5 one (157) 10:10;12:2;13:3; 14:12;19:16;21:12; 24:13,24;25:1;26:11; 27:21,22,22;37:5; 39:14,17,20;40:12; 41:18;42:15;44:11; 48:15;49:25;51:2; 61:9;63:14;65:18; 67:5;70:4,5,12;72:2; 74:11,23;75:3;76:7,8,	25:10;70:6;141:19; 168:21;250:10 one-to-one (4) 69:16;104:3;114:9, 25 on-farm (1) 102:11 ongoing (8) 26:14,15;30:20; 92:21;111:12;113:6; 201:5;226:22 online (13) 6:13;9:19;17:15; 32:22;35:3;38:7;42:3; 44:8;51:20,21; 110:21;113:7;228:11	operates (1) 9:11 operating (6) 75:23;133:25; 195:13,17;196:5; 246:10 operation (29) 46:5,7;60:16;66:6; 71:22;72:3,5;79:18, 19:80:2,21;84:11,12; 85:2;120:13;127:12; 164:12;165:5,14; 166:7,10,14,18; 197:17;207:16; 212:17;252:15; 263:15;276:4	option (3) 145:3;172:17; 270:18 options (5) 174:7;197:15; 269:24;270:11; 295:23 oral (4) 24:5;203:15;241:1; 251:24 ORDER (19) 6:4;53:15,16;69:1; 81:2;115:15;131:15; 143:2,16;147:5; 170:9;177:16,17; 183:25;184:23;209:4;
offers (1) 222:22 off-farm (1) 292:9 Office (11) 8:16;18:4;75:13; 107:13;114:23; 127:24;136:9,13,16; 164:25;276:7 officer (2) 6:19;246:10 offices (4) 107:18;136:18,22; 192:1 official (1) 6:16	142:11;171:16; 254:18;267:4;300:4 on-deck (2) 143:3,5 one (157) 10:10;12:2;13:3; 14:12;19:16;21:12; 24:13,24;25:1;26:11; 27:21,22,22;37:5; 39:14,17,20;40:12; 41:18;42:15;44:11; 48:15;49:25;51:2; 61:9;63:14;65:18; 67:5;70:4,5,12;72:2; 74:11,23;75:3;76:7,8, 8,16;80:8;83:18;	25:10;70:6;141:19; 168:21;250:10 one-to-one (4) 69:16;104:3;114:9, 25 on-farm (1) 102:11 ongoing (8) 26:14,15;30:20; 92:21;111:12;113:6; 201:5;226:22 online (13) 6:13;9:19;17:15; 32:22;35:3;38:7;42:3; 44:8;51:20,21; 110:21;113:7;228:11 only (54)	operates (1) 9:11 operating (6) 75:23;133:25; 195:13,17;196:5; 246:10 operation (29) 46:5,7;60:16;66:6; 71:22;72:3,5;79:18, 19;80:2,21;84:11,12; 85:2;120:13;127:12; 164:12;165:5,14; 166:7,10,14,18; 197:17;207:16; 212:17;252:15; 263:15;276:4 operational (3)	option (3) 145:3;172:17; 270:18 options (5) 174:7;197:15; 269:24;270:11; 295:23 oral (4) 24:5;203:15;241:1; 251:24 ORDER (19) 6:4;53:15,16;69:1; 81:2;115:15;131:15; 143:2,16;147:5; 170:9;177:16,17; 183:25;184:23;209:4; 219:8;276:23;295:22
offers (1) 222:22 off-farm (1) 292:9 Office (11) 8:16;18:4;75:13; 107:13;114:23; 127:24;136:9,13,16; 164:25;276:7 officer (2) 6:19;246:10 offices (4) 107:18;136:18,22; 192:1 official (1) 6:16 officially (2)	142:11;171:16; 254:18;267:4;300:4 on-deck (2) 143:3,5 one (157) 10:10;12:2;13:3; 14:12;19:16;21:12; 24:13,24;25:1;26:11; 27:21,22,22;37:5; 39:14,17,20;40:12; 41:18;42:15;44:11; 48:15;49:25;51:2; 61:9;63:14;65:18; 67:5;70:4,5,12;72:2; 74:11,23;75:3;76:7,8, 8,16;80:8;83:18; 85:19;86:10;88:23;	25:10;70:6;141:19; 168:21;250:10 one-to-one (4) 69:16;104:3;114:9, 25 on-farm (1) 102:11 ongoing (8) 26:14,15;30:20; 92:21;111:12;113:6; 201:5;226:22 online (13) 6:13;9:19;17:15; 32:22;35:3;38:7;42:3; 44:8;51:20,21; 110:21;113:7;228:11 only (54) 32:18,21;33:2,4,5;	operates (1) 9:11 operating (6) 75:23;133:25; 195:13,17;196:5; 246:10 operation (29) 46:5,7;60:16;66:6; 71:22;72:3,5;79:18, 19;80:2,21;84:11,12; 85:2;120:13;127:12; 164:12;165:5,14; 166:7,10,14,18; 197:17;207:16; 212:17;252:15; 263:15;276:4 operational (3) 165:15;166:10,22	option (3) 145:3;172:17; 270:18 options (5) 174:7;197:15; 269:24;270:11; 295:23 oral (4) 24:5;203:15;241:1; 251:24 ORDER (19) 6:4;53:15,16;69:1; 81:2;115:15;131:15; 143:2,16;147:5; 170:9;177:16,17; 183:25;184:23;209:4; 219:8;276:23;295:22 ordered (1)
offers (1) 222:22 off-farm (1) 292:9 Office (11) 8:16;18:4;75:13; 107:13;114:23; 127:24;136:9,13,16; 164:25;276:7 officer (2) 6:19;246:10 offices (4) 107:18;136:18,22; 192:1 official (1) 6:16	142:11;171:16; 254:18;267:4;300:4 on-deck (2) 143:3,5 one (157) 10:10;12:2;13:3; 14:12;19:16;21:12; 24:13,24;25:1;26:11; 27:21,22,22;37:5; 39:14,17,20;40:12; 41:18;42:15;44:11; 48:15;49:25;51:2; 61:9;63:14;65:18; 67:5;70:4,5,12;72:2; 74:11,23;75:3;76:7,8, 8,16;80:8;83:18;	25:10;70:6;141:19; 168:21;250:10 one-to-one (4) 69:16;104:3;114:9, 25 on-farm (1) 102:11 ongoing (8) 26:14,15;30:20; 92:21;111:12;113:6; 201:5;226:22 online (13) 6:13;9:19;17:15; 32:22;35:3;38:7;42:3; 44:8;51:20,21; 110:21;113:7;228:11 only (54)	operates (1) 9:11 operating (6) 75:23;133:25; 195:13,17;196:5; 246:10 operation (29) 46:5,7;60:16;66:6; 71:22;72:3,5;79:18, 19;80:2,21;84:11,12; 85:2;120:13;127:12; 164:12;165:5,14; 166:7,10,14,18; 197:17;207:16; 212:17;252:15; 263:15;276:4 operational (3)	option (3) 145:3;172:17; 270:18 options (5) 174:7;197:15; 269:24;270:11; 295:23 oral (4) 24:5;203:15;241:1; 251:24 ORDER (19) 6:4;53:15,16;69:1; 81:2;115:15;131:15; 143:2,16;147:5; 170:9;177:16,17; 183:25;184:23;209:4; 219:8;276:23;295:22

Burke Court Reporting & Transcription (973) 692-0660

1 8 8			1	1 /
169:8	130:7,20;131:17;	270:2,6,8,13;271:2,7,	295:14	118:6;122:14;125:12;
OREI (4)	133:21;134:4;135:1,	12;272:17;274:24;	orphan (1)	133:18;134:12,21;
94:1,1,8;285:18	16;136:19;138:7,14;	276:5,6,16;277:10,12,	232:21	136:6,9,17;138:17;
Org (3)	139:22;140:10;	15,22;279:20;280:6,7,	OSA (6)	139:6,14;142:1;
224:17,18;237:6	144:15,16,18,20,23,	10,14,17;281:6,7,21,	255:24,25;282:3,9;	147:18;148:20;154:2,
Organic (719)	23,24;145:2;146:12;	23;282:1,3,4,5,7,8,11,	285:13;286:20	13;156:5;157:23;
6:11,15,17;7:8,13;	149:3;152:25;156:9,	15,24,25;283:3,5,7,	OSP (5)	159:7;161:9,12;
8:8;10:17,24,25;11:1,	18;157:18;158:2;	10,14,18,20,20,22;	48:12;72:11;119:6;	162:19;163:7;164:3;
2,4,5,6;12:20,21,23;	159:24;160:17;161:3,	284:3,15,16,21,25;	161:13;167:4	171:15,17;172:3,20;
16:15;17:2;18:8,19;	9,15,25;162:2,4,6,10,	285:1,4,5,8,16,21;	OSPs (4)	175:3,10;177:3,11;
19:13;20:20,22,24;	24;163:1,8,22;164:5;	286:11,13,14,17,20,	66:24;118:4;	178:15;179:10;
21:13,17,19,24;22:13,	167:21,24;168:2,3,4,	22,24,25;287:7,16,17,	119:24;161:11	181:22;184:17,18;
			OTA (9)	187:21;188:9;191:23;
19,20,20;23:2,2;24:8,	4,14,16,17,18,24,25;	20,24,25;288:1,2,5,6,	33:9,25;34:4;39:5;	193:1,4;198:17;
15,16,21;25:20,20,21;	169:2,6,7,9,18,19,21,	7,9,13,15,17,19;		
26:18;28:25;29:16,	23,24;171:22;172:8,	289:1,2,6,7,10,12,14,	220:22;222:18;	199:13,14,15,19,22;
18,19,21;30:2,5,10,	10,15,18;174:20;	20,21;290:3,6,18,22,	223:13;269:13;	203:1;204:10;205:12;
20,24;31:1;32:10,11,	175:12,17;176:8,17,	24;291:1,4,14,17,19,	277:19	206:17;208:12;
25;33:1,3,4,5,9,15,19,	21;177:9,11;179:5;	20,22;292:1,2,5,6,10,	OTA's (1)	215:13,24;216:4;
21,22;34:7,8,9,11,18,	183:9,10,19,22,24,25;	14,16,19,22;293:2,9,	220:24	218:11;219:6,15;
22;35:9,10,20;36:1,	184:1,6,9,23;186:7;	15;294:24;295:1,6,7,	OTCO (2)	223:7;225:6,23;
12,13;37:9,15,17,19;	187:22,24;188:2,7,8,	9,12,15,17,23,25;	166:24;168:3	227:10;229:6,6;
38:12,12,18,19,20;	10;189:4,4,7,9,11,12,	297:2,3,4,5;298:20,	others (15)	231:7;234:10,18;
39:4,10,18;40:5;	16,17;190:8,9,23,24,	20,21,24;299:3,5,5,	9:11;11:17;14:10;	235:14;237:2;238:13;
42:17,23;43:8,17,18,	25;191:2,4,10,22,24;	21;300:6,17,21;301:1,	29:1;41:24;62:18;	242:17;243:24;
19,20,25;44:3,9,23;	192:6,7,8;193:18,24,	16	63:13;118:2;122:9;	246:15;247:9;249:23;
45:9,20;46:6,7,16,18,	25;194:2,18,20,23,25;	organic-allowed (1)	123:17;124:9;263:23,	251:16;253:1,8,11,16;
21;47:3;48:12,24;	195:5,6;196:24;	162:3	25;299:13;300:3	256:7;257:1;259:8;
49:21;50:7;51:3,17;	197:3,10,11;198:16;	organically (6)	other's (1)	260:5;263:16,19;
55:2,14;56:5;58:11;	199:3;200:8,10,13,16,	150:3;168:23;	139:3	264:13;268:17,18,20,
60:9,20,22,24;61:9,	17;201:8,10,14;	216:3;241:14;290:23;	Otherwise (1)	22;274:22;277:6,13;
23;62:17;64:15,17;	202:12,24;203:3,18;	299:21	172:1	278:5,12;280:1,9;
66:1,7,11;67:6;68:1,	204:2,7,12,13;205:4;	organically-managed (1)	OTI (10)	284:20;287:3;301:7
14,16,17,20,21,23;	207:5,7;208:2,4;	298:15	75:20;99:15;	outcome (5)
70:4,14,23;71:16;	210:4,12,20;211:11,	organic-compliant (1)	115:21;116:7,13;	25:2;221:20;
72:3,4,10;73:8;74:13,	12;212:5,9,10,12;	146:4	129:13;139:25;	246:24;268:5;270:5
22;75:10,11,11,15;	213:2,5,8,10,25;	organic-curious (1)	141:12;193:24;	outcome-based (1)
77:7;78:1;79:18;80:7,	214:2,11,13,16,21;	134:20	277:16	266:3
25;81:17,17;82:9;	215:6,15;216:5,14,19,	Organics (8)	ours (3)	outcomes (2)
83:19;84:8,9,11,12;	22;217:1;219:1,10;	10:22;30:7;183:23;	148:10;167:18;	228:6;234:24
85:3,5;87:1,22,22;	220:20,23,25;221:11;	203:16;295:3;296:5;	275:18	outdoors (2)
89:5;91:13,14;95:11,	222:2,2,3,7,9,13,19;	297:17;300:20	ourselves (6)	34:9;178:10
24;96:14,18;97:12,16,	223:16,17,18,19;	organictransitionorg (1)	126:17;141:4;	outlast (1)
21,23;98:9;99:11,16,	224:24;227:8,15,17,	103:2	199:18;204:4;212:3;	132:14
17;100:5;102:1,14,15,	19,23,25;228:7;229:1,	organisms (1)	284:18	outlet (1)
15,24;103:5,7,10,11,	12,14;230:2,4;233:4;	230:22	out (182)	294:1
12,20;104:8,10,14,14,	234:8,12;235:5,7;	organization (19)	14:24;18:25;27:2,9;	outlets (1)
14,17,19,24;105:5,8,	237:4;238:24,25;	25:4,11;74:25;96:2;	28:10;29:4;30:15;	300:1
10,10,11,18,18,19;	239:4,9,12,25,25;	104:19;109:8;112:10;	31:5,9,11;33:2,10;	outlined (1)
106:4,5,6,7,8,11,15,	240:18,21;241:22;	114:19;123:21;	35:1,25;37:9,13;	240:23
23;107:15,19;108:1,4,	242:18,21;244:23,23;	130:18;134:9;147:4;	39:16,17;41:8;44:11;	outreach (12)
4,7,11,12,15;109:9,	246:12,17,21,21;	193:20;208:18;	46:11;53:17,23,24;	50:20;63:24;69:17;
12,14,15,21,25;110:1,	248:4,12,13;251:9;	209:15;215:2;220:22;	54:8,8;55:2,4,14,23;	87:20;96:4;105:12;
10,12,25;111:6,7,16;		255:8;281:22	57:21;61:20;63:25;	134:15;190:7,12,18;
112:19;113:10,13,15,	252:7,15,22,22;	233.0,201.22	57.21,01.20,05.25,	10.110,12,000,12,10,
112.17,110.10,10,10,	252:7,15,22,22; 253:24;254:1,4,15,20,	organizations (12)	66:19,20,20,21,25;	191:2;284:19
16;114:7,14,17,23;				
	253:24;254:1,4,15,20,	organizations (12)	66:19,20,20,21,25;	191:2;284:19
16;114:7,14,17,23;	253:24;254:1,4,15,20, 25;255:3,5,5,5,6,9,10,	organizations (12) 29:16;101:15,17;	66:19,20,20,21,25; 69:17;72:13;73:6,13;	191:2;284:19 outset (1)
16;114:7,14,17,23; 115:11;116:2,7,20;	253:24;254:1,4,15,20, 25;255:3,5,5,5,6,9,10, 11,12,13,15;256:13,	organizations (12) 29:16;101:15,17; 113:5;122:14,17;	66:19,20,20,21,25; 69:17;72:13;73:6,13; 74:7;75:15,21,23;	191:2;284:19 outset (1) 293:12
16;114:7,14,17,23; 115:11;116:2,7,20; 117:4,6,9,13,14,15;	253:24;254:1,4,15,20, 25;255:3,5,5,5,6,9,10, 11,12,13,15;256:13, 14,25;257:4,12,14,19;	organizations (12) 29:16;101:15,17; 113:5;122:14,17; 130:13,16;159:5;	66:19,20,20,21,25; 69:17;72:13;73:6,13; 74:7;75:15,21,23; 78:10;86:5;87:21;	191:2;284:19 outset (1) 293:12 outside (21)
16;114:7,14,17,23; 115:11;116:2,7,20; 117:4,6,9,13,14,15; 118:1,13,18;119:7;	253:24;254:1,4,15,20, 25;255:3,5,5,5,6,9,10, 11,12,13,15;256:13, 14,25;257:4,12,14,19; 258:15,20,22,24,24;	organizations (12) 29:16;101:15,17; 113:5;122:14,17; 130:13,16;159:5; 190:19;204:9;206:7	66:19,20,20,21,25; 69:17;72:13;73:6,13; 74:7;75:15,21,23; 78:10;86:5;87:21; 88:2,7;89:9,20;90:2,3,	191:2;284:19 outset (1) 293:12 outside (21) 6:22;26:25;29:15;
16;114:7,14,17,23; 115:11;116:2,7,20; 117:4,6,9,13,14,15; 118:1,13,18;119:7; 120:13;121:18,22;	253:24;254:1,4,15,20, 25;255:3,5,5,5,6,9,10, 11,12,13,15;256:13, 14,25;257:4,12,14,19; 258:15,20,22,24,24; 259:1,7,8,15,25;	organizations (12) 29:16;101:15,17; 113:5;122:14,17; 130:13,16;159:5; 190:19;204:9;206:7 organize (1)	66:19,20,20,21,25; 69:17;72:13;73:6,13; 74:7;75:15,21,23; 78:10;86:5;87:21; 88:2,7;89:9,20;90:2,3, 6,8,9,10,13,13;92:14,	191:2;284:19 outset (1) 293:12 outside (21) 6:22;26:25;29:15; 35:1;37:4;53:18;
16;114:7,14,17,23; 115:11;116:2,7,20; 117:4,6,9,13,14,15; 118:1,13,18;119:7; 120:13;121:18,22; 122:15,25;123:7,9,10,	253:24;254:1,4,15,20, 25;255:3,5,5,5,6,9,10, 11,12,13,15;256:13, 14,25;257:4,12,14,19; 258:15,20,22,24,24; 259:1,7,8,15,25; 260:2,5,14,18,24;	organizations (12) 29:16;101:15,17; 113:5;122:14,17; 130:13,16;159:5; 190:19;204:9;206:7 organize (1) 219:7	66:19,20,20,21,25; 69:17;72:13;73:6,13; 74:7;75:15,21,23; 78:10;86:5;87:21; 88:2,7;89:9,20;90:2,3, 6,8,9,10,13,13;92:14, 20;94:2;96:11,14;	191:2;284:19 outset (1) 293:12 outside (21) 6:22;26:25;29:15; 35:1;37:4;53:18; 74:17;81:1;126:4;
16;114:7,14,17,23; 115:11;116:2,7,20; 117:4,6,9,13,14,15; 118:1,13,18;119:7; 120:13;121:18,22; 122:15,25;123:7,9,10, 19,25;124:3,14,19,19,	253:24;254:1,4,15,20, 25;255:3,5,5,5,6,9,10, 11,12,13,15;256:13, 14,25;257:4,12,14,19; 258:15,20,22,24,24; 259:1,7,8,15,25; 260:2,5,14,18,24; 261:1,24;263:22;	organizations (12) 29:16;101:15,17; 113:5;122:14,17; 130:13,16;159:5; 190:19;204:9;206:7 organize (1) 219:7 originally (1)	66:19,20,20,21,25; 69:17;72:13;73:6,13; 74:7;75:15,21,23; 78:10;86:5;87:21; 88:2,7;89:9,20;90:2,3, 6,8,9,10,13,13;92:14, 20;94:2;96:11,14; 100:13,19;105:3,14,	191:2;284:19 outset (1) 293:12 outside (21) 6:22;26:25;29:15; 35:1;37:4;53:18; 74:17;81:1;126:4; 131:9,20;133:25;

Burke Court Reporting & Transcription (973) 692-0660

Spring 2024 Meeting	1			
055 0 057 00 070 17		00 00 00 107 1		1.4
255:8;257:23;272:17	overuse (1)	99:20,22;107:1;	participated (2)	passed (4)
over (78)	297:10	115:24;121:12;	24:23;203:17	26:9;147:8;160:1;
18:15;23:10,13,23;	OVERVIEW (6)	130:24;139:2	participating (4)	236:12
24:23;25:18;26:14;	16:8;30:14;89:6;	paired (2)	120:24;129:25;	passes (2)
28:20,22;29:3;30:19;	99:7;202:23;254:4	102:4;285:19	137:9;257:11	221:5,8
		,		
41:14;42:10;48:15;	overwhelmed (1)	pairs (4)	participation (1)	passing (2)
49:13,25;53:5;56:5,	32:2	101:23,24;102:2;	194:17	22:16;144:11
13,20;57:10,19;	overwhelming (1)	117:25	particular (14)	passion (3)
58:20;66:17;68:6;	254:14	pandemic (3)	73:3;74:4;77:1;	219:15;220:5;236:8
69:4,20;70:23;77:23;	owe (1)	28:14;44:16;98:3	88:9;125:17;141:3;	passionate (1)
81:16,18,25;91:17;	200:11	panel (3)	167:18;177:5;178:25;	269:15
94:11;95:21;97:5;	own (24)	7:18;77:2;146:24	243:7;249:1;251:7;	passions (1)
98:6;103:21;104:7;	39:23,23;90:24;	paper (12)	252:25;300:20	106:15
107:14;108:9;110:6;	121:16;122:6;124:25;	41:3,3;56:13;58:9,	particularly (14)	passive (1)
119:24;124:1;126:11;	125:1,13,14;132:10,	9;60:4;62:9,12;64:25;	62:23;78:12;83:21;	153:22
139:12;177:14,22;	12;151:24;189:2;	149:10,12;235:12	112:5;114:1;115:18,	past (7)
178:19;180:18,24;	190:13;193:23;195:3;	paper-based (2)	21;116:7;140:13;	26:14;30:19;48:15;
181:2;183:10;184:10;	211:25;218:2;230:14;	56:9;59:18	227:19;239:17;	57:19;260:13;285:18;
186:18;192:15;	254:7;262:3,19;	paperwork (3)	249:20;253:7;274:13	299:12
212:19;215:19;	276:15;293:8	63:8;200:24;259:22	parties (1)	pasture (2)
218:11;223:7,15;	owned (1)	parallel (1)	224:4	262:21,22
224:21;225:7;228:14;	284:14	165:1	partner (23)	pastured (1)
231:23;232:22;	owner (3)	parameters (1)	14:22,24;56:10;	176:20
233:15,25;247:1;	65:6;183:5;214:1	131:9	68:21,23;69:3;79:11;	patent (3)
	05.0,105.5,214.1			
259:14;260:13;	Р	parasitic (1)	80:25;81:14,20,20,21;	169:4;172:6,7
261:22;266:22;269:8;	r	214:10	83:3;99:10;100:20,	patents (1)
280:17;296:6;298:8;		parathion (1)	21;101:1,14;105:15;	275:14
299:22	pace (1)	236:17	134:7;168:14;181:6;	path (10)
overarching (2)	27:1	parents (1)	276:3	52:4;86:18;117:18;
239:11;249:8	Pacific (1)	126:12	partners (35)	121:24;165:1;187:20;
overburden (3)	88:11	Park (2)	9:22;13:9;56:14;	218:6;220:9;228:23;
51:3;66:14,24	package (7)	259:6,8	61:16;65:1;79:7,8;	256:8
overburdened (1)	31:1;55:16;145:3;	parsed (1)	81:7;82:16,21;89:23,	pathogens (2)
200:23	150:4,22;151:21;	280:8	24;90:5,16;95:8;97:4;	267:12,16
overburdening (1)	157:17	part (71)	99:9;100:19;101:1,	pathway (3)
51:7	packaged (1)	9:11;11:13,14;	13,15;103:20,25;	203:21;222:23;
overdue (1)	47:8	12:18;13:14,18;14:3;	105:14;106:22;128:2;	270:7
287:4		27:13;32:18;35:9;	129:14;133:15;	
	packages (1)			patient (1)
overfeeding (2)	47:18	43:19;44:7,8,8;46:18;	134:17;139:10;148:5;	13:25
182:7,19	packaging (12)	49:1;51:17;52:5;	163:25;216:20;	patients (1)
overhaul (1)	35:6;49:3;65:16;	62:10;65:16;70:16;	295:15;301:16	295:6
73:4	144:13,15;145:9;	71:13,16;74:14;	Partnership (18)	pattern (1)
overhauled (1)	147:9;150:1;151:10,	76:12;80:23;95:11;	7:13;18:8;49:1;	241:25
156:21	14;159:5;178:24	113:22;120:20;	52:13;70:14;86:20;	patterns (2)
		122:21;123:4;129:3;	97:12;101:17;103:7,	
overland (1)	Packer (2)			14:18;68:5
254:8	10:6;167:19	130:24;132:18;	7;112:20;114:22;	pause (2)
overload (1)	Packers (1)	136:10;137:8,11,12,	123:8;151:17;189:7;	46:23;143:13
238:9	164:4	14;139:23,23;140:7,8,	207:25;222:7,16	pay (6)
overnight (1)	packets (1)	13;141:11;145:7;	partnership-based (1)	215:10;242:17,19;
186:15	282:19	147:5;151:25;159:13;	112:18	261:24;262:2;293:3
over-reliance (1)	page (1)	163:11;171:12;	partnerships (7)	paying (4)
. ,	146:23			
162:15		181:22;189:24;	36:18;98:17;	98:21;217:12;
oversaw (1)	pages (4)	191:24;226:13,15;	100:11;101:16,19;	218:19;242:14
185:17	67:1;176:9,11;	237:15,20,22;243:18;	130:16;150:5	payments (1)
overseeing (5)	225:7	245:3,6,8;270:15;	parts (15)	189:20
48:11;58:10;82:25;	paid (2)	272:1;276:25;277:6;	37:17,21;136:3;	PCO (4)
98:11;123:24	277:13,13	282:14;288:18;	146:2;153:8,12;	23:8,8;24:21,21
overseen (1)	pain (7)	289:14;294:9	154:4,5;157:13,15,18;	PDP (4)
47:4	295:16,18,22,23;	partial (1)	158:8,20,23,25	225:11;229:3,12,15
oversight (8)	296:1,18;297:13	152:19	pass (9)	peace (1)
29:14;45:16;55:21;	painful (1)	participate (4)	30:9;79:8;127:13;	124:7
66:13;79:12;83:5;	297:15	40:8;124:13;	146:5;170:14;172:20;	Peanut (1)
170:11;254:6	pair (7)	293:25;294:5	188:3;201:20;240:5	17:2
· · · · ·	· ` ´	.,	,,	

38:4

60:7

peas (1) 195:2 pecking (1) 182:9 peeing (1) 231:7 peek (1) 176:13 peer (2) 72:15,24 peeves (1) 39:14 pelts (1) 10:12 penalties (2) 35:19;89:4 Pennsylvania (2) 23:13;300:25 Penny (1) 18:3 people (115) 9:10;10:5,18;11:18, 18,19,22;12:2;14:4, 20;15:8,12,14;16:12; 30:4,20;31:19;32:12, 18,22,24,25;35:19; 36:25;37:8;38:17,20; 42:5;45:23;47:11; 52:16;53:2,3,5;59:19, 22:63:8:66:21:69:17, 19,20;70:22,24,24; 72:19:74:6.15:75:8: 81:16:85:10:91:7; 96:21;101:22;102:21; 106:14;113:14; 116:11,19;123:18,22; 124:20,24;125:5; 126:20;127:9;132:10; 133:10;135:11,12; 160:6:167:3.5; 175:13,17,23;179:4; 180:10,21,23;193:4; 198:4,18;205:1; 206:14;215:5,9,24; 219:12;223:6;225:16, 25;226:1;227:12; 231:20;233:8;234:23; 235:4,11;236:15; 238:8,17;241:2; 245:23;250:3;252:8, 8:256:19:257:1; 266:20,21;269:8; 293:23;295:5;296:12; 301:7 People's (1) 188:1 per (18) 90:8;153:8,12; 154:4,5;157:13,15,18; 158:8,20,23,25; 159:13;177:12,17,21; 189:19,20 percent (66)

10:4;11:1,4;22:19; 198:2:205:7:207:1: 208:24:209:11:231:6 33:2,4,5,8,20,22;34:4, 7.8.10:39:9:44:24: personal (5) 56:1,5,16,19,22; 90:24:117:10: 142:20;230:14; 62:10:63:15:82:1; 84:9,11,11,12;91:17; 269:14 103:17,19,21,22; personally (1) 116:9:128:21:155:2. 219:25 10;162:16;169:12,21; personnel (1) 171:25;176:18,19; 266:18 177:17;179:15; persons (2) 183:24;184:5,6; 88:11:142:17 186:9;225:21,23; perspective (7) 235:6;240:3,5,8; 30:22;118:24; 244:3;258:21,23; 132:12;165:9;221:3; 259:14,15;260:19,20, 265:10;292:21 20,21;273:18,19 perspectives (2) 29:23;32:10 percentage (3) 90:6;252:24;262:5 persuasive (1) percent-ish (1) 39:9 58:23 pertains (1) perennial (1) 288:13 110:24 pervasive (1) perennial-based (1) 230:16 121:17 pest (6) perfect (3) 184:21;189:24; 38:1;42:13;175:24 230:24;236:22; perfection (1) 237:17;253:13 pesticide (13) performance (2) 225:22;227:7,15, 269:21:270:4 20:228:7.13.20: perhaps (8) 230:25:232:19: 88:17:158:13; 234:20;236:22; 166:16;202:11; 271:19;279:3 204:12;205:12,13; pesticides (15) 20:13;33:4;162:4,8; 217:16 period (13) 225:9,19;228:3,5; 230:16;231:8,10; 17:24;58:7;60:5; 234:18;239:5;240:21; 62:19,21;98:16; 114:14;139:4;142:17; 270:14 198:2;212:17;221:9; pests (1) 295:19 253:15 pet (2) periodic (1) 226:14 39:14;183:22 periods (1) petition (20) 161:1 143:22;171:18,21; 175:8;185:10;246:14; perked (1) 181:8 249:6,11,13,16,19; permanent (1) 250:12,17;270:21; 271:10,22;295:2,14, permission (1) 24;296:25 31:22 petitioner (2) permitted (2) 175:15;241:13 142:19;270:6 Petrey (15) 19:2;22:23,25;23:1; perpetuity (1) 185:6,12,15,18,21,24; 281:24 persistent (1) 186:2;250:20,25; 251:7;253:17 154:25 person (18) petrochemical (1) 27:23;29:6;42:15; 156:3 72:20;75:3;90:8; petroleum-derived (1) 99:22;125:7;132:1; 275:21 143:3;146:19;150:6; **PFI** (1)

134:19 **PFOS (20)** 146:11:148:16,17, 20;149:6,16;153:6,15, 25;154:23;157:13,23; 158:11;159:4,6; 238:5;240:19;242:15, 16,21 **PFOS-specific** (1) 157:19 **PHA (8)** 272:23;273:5,13; 274:8,10,14;275:8,18 PHA-only (1) 275:13 pharmaceutical (2) 126:25;273:13 PHAs (5) 272:15;273:7,8,9; 275:15 phase (7) 27:11;53:8,10;54:6; 129:4;134:12;150:9 Pheasants (2) 135:7;203:20 Phew (2) 69:8;72:15 **Phil (8)** 200:5;206:21; 213:21,24;214:20; 216:10;217:19; 219:22 Phillips (1) 174:4philosophical (1) 281:11 philosophy (2) 232:15;297:4 Phil's (1) 227:13 phone (5) 32:24:61:4:67:12; 132:9;134:25 phonetic (2) 121:3;134:9 photograph (1) 188:2 photosynthesis (1) 251:9 physical (3) 147:25;164:22,23 physically (2) 63:11,18 pick (3) 40:22;134:5,25 picked (4) 24:24;212:14; 229:18:300:23 picking (1) 212:11 picks (2) 80:9:157:20 picture (9)

- Vol. 3 April 29, 2024

28:7:36:7:37:13.25: 120:11:184:8:212:12: 239:17:276:22 pictures (3) 37:14;39:23;299:23 piece (5) 41:2;61:9;117:9; 146:2;181:10 pieces (6) 35:1:41:3:73:6; 74:11,20;114:8 pierce (1) 235:16 piggy (1) 181:6 piglets (1) 273:8 pigs (1) 121:19 pile (1) 188:4 piles (2) 267:25;268:1 pill (1) 296:15 pillar (2) 35:24;99:12 pillars (6) 35:8,10,14;37:7; 40:3:45:17 pilot (5) 41:20:42:9:78:10: 201:12:254:11 piloted (1) 136:21 piloting (1) 222:19 Pinkham (5) 160:13,16,16; 163:10,17 Pinkman (1) 143:19 pioneering (1) 144:8 pioneers (1) 97:23 pipeline (14) 19:19;62:6,7;63:12; 96:20;102:6;103:14; 298:19;299:1,10,24; 300:3,7,19 pipelines (5) 298:9,10;301:3,3,3 pitch (1) 67:7 pivot (1) 287:15 **PLA (1)** 274:8 place (12)15:9;17:14;24:11; 31:7:65:14:113:9: 159:10;196:13;212:2;

246:21:254:17; 284:10 place-based (1) 231:2 placed (2) 180:17;202:3 places (3) 9:25:156:21:205:2 plain (2) 36:3;37:24 Plains (2) 139:24;140:1 plan (24) 45:6;48:13,13; 71:14;72:1,11;85:3,7; 110:5;111:6;126:3, 18;134:12;161:7; 163:7;167:21;189:24; 259:25;277:18;279:1; 282:5,21;298:21; 299:9 plane (1) 24:4Planet (4) 144:6;217:24; 219:12;295:5 planned (1) 115:25 planner (1) 21:16 planning (6) 102:14:109:16: 110:5;112:15;115:1; 285:8 plans (5) 15:2;120:16; 125:10:189:22; 298:20 plant (5) 154:21,23;240:16; 251:9;264:9 planted (1) 288:7 plants (2) 251:14;295:4 PLAs (1) 275:18 plastic (11) 7:2;144:7;155:24, 24;156:1,3,23;242:1; 273:2,16:281:3 plasticizers (1) 275:10 plastics (12) 145:13,14;156:8; 240:13;241:22,23; 242:9,10;272:25; 273:3,19,20 plastics-labeling (1) 146:8 plate (2) 12:12;118:2 plateau (1)

Plus (1) 290:6 platforms (1) 124:17 213:11 plying (1) play (6) 218:10 121:11;172:22; pm (1) 201:17;208:19; 302:1 **PO (1)** 237:11;285:22 played (3) 164:24 18:6;121:13;276:5 pocket (2) player (1) 126:6:127:5 214:16 podcasts (1) players (1) 102:25 64:5 podium (5) 128:11;143:6,7,10; playing (7) 18:7;89:7;184:1; 189:2 Point (38) 200:14;217:3;222:17; 31:24;34:16;36:14; 254:12 43:10,13;51:22; plays (2) 11:15;55:23 55:18;56:1,25;62:1; please (86) 63:14;71:12;74:5; 9:15;22:1,22;27:24; 80:20:91:20:97:1; 28:8,17;31:20;38:13, 105:9:153:13:165:13: 16,24;40:6;41:7; 187:2;192:2;214:12, 42:17,18,20;76:3; 24;216:16;232:12; 78:20;83:12;86:8; 236:3;243:14;245:13, 15;250:17;252:18; 87:8;88:25;100:22; 101:1;117:12;120:1; 259:5;270:16;274:17; 128:13,20;131:24; 277:6,7;278:3;280:4 132:16;139:16;142:7; points (4) 143:8,10:146:17; 37:24:67:9,10; 149:23;150:14;153:1; 252:24 polarized (1) 154:10:155:19: 157:11;159:16; 259:4 165:25;167:8;170:24; pole (1) 174:12;178:4,17; 296:21 policies (10) 181:4,25;183:14,20; 26:6;142:13;226:3; 185:4;186:5;191:7; 236:25;278:8,17; 192:10:196:21:197:6. 279:21;280:11;292:2, 22;199:1;203:11; 204:17;209:9;210:16; 13 Policy (29) 212:6;216:8;217:18; 219:24;223:3;226:11; 6:18;8:5,16,20; 228:9;230:7;231:22; 20:8;23:8;29:18;51:1, 9;64:10,11;105:17, 232:1;233:11;238:20; 243:1,21;246:22; 21;113:2;142:13; 247:2;250:19;262:9; 161:6;163:11;170:11; 266:14;279:15; 184:21;228:1;231:3, 281:10;297:4;301:24 3;234:13;274:2,18; pleased (4) 276:7,10,23;283:19 7:21;64:22;72:12; polite (1) 161:4 31:20 pleasure (2) political (1) 95:21;96:13 8:19 plenty (3) politics (1) 26:21;43:15;194:5 76:2 pollen (1) Pliny (1) 264:16 241:13 pollination (1) plot (2) 187:22,24 287:13 plug (3) pollinators (3) 9:22;141:19;290:21 20:13;230:17; plugging (1) 291:23 pollute (1) 238:3

238:12 pollution (2) 269:11:271:1 polyhydroxyalkanoates (1) 272:14 polymer (1) 272:15 Pontious (9) 258:11;263:7; 269:1,3,6:271:20,24; 272:6,8 pool (4) 117:25;171:6; 219:7;279:19 pools (2) 279:21;280:4 poor (3)124:21;156:2;295:9 **pop** (1) 37:13 popular (3) 251:10,11,15 pop-up (1) 68:15 porch (1) 250:21 port (1) 78:14 portfolio (1) 77:21 portion (2) 74:12:279:13 Portland (2) 281:13.14 ports (5) 78:5,8,12;254:7,7 position (10) 17:23;29:19,21; 99:2:114:18:119:3: 135:2;223:13;224:1; 247:13 positioning (1) 65:1 positions (1) 8:13 positive (5) 50:15;91:4;162:12; 204:15;234:19 positively (1) 38:11 possibility (2) 256:10;290:10 possible (12) 87:2;100:10;104:5; 153:23;160:23;211:8; 225:25;227:11;229:9; 231:19,19;233:20 possibly (4) 61:1;106:16;220:5; 284:19 post- (1) 164:19 posted (3)

- Vol. 3 April 29, 2024

6:20;87:10;173:18 post-farm (1) 21:13 potatoes (1) 10:15 potential (18) 31:5;50:8,9;88:8; 91:5:132:25:141:20; 154:17;156:10;177:2; 178:9:201:19:203:9; 211:1;222:10;224:10; 241:24;266:7 potentially (7) 132:24;140:7; 199:8;232:7;268:13; 294:9;296:18 poultry (6) 19:13;25:21; 119:13;121:18;125:1; 253:25 pound (1) 177:23 pounds (10) 177:11,12,13,17,18, 19,21,22,24;180:17 poured (1) 229:17 powder (1) 241:12 **POWELL-PALM (44)** 19:15,16;27:20; 86:9:117:16:128:16. 22;129:18;159:17; 163:5,15;166:1; 178:6;182:1,24; 186:5,6;187:3;191:8; 192:5,9;196:22; 197:5,8,20;204:18; 206:5,19;217:19,25; 218:4:219:2,20; 262:10:263:1:268:24: 278:2,6,18:284:7; 285:12;286:1;297:9, 18 power (6) 31:5;122:7;199:14; 207:19;223:15;225:1 powerful (2) 211:3;234:16 powers (1) 236:13 ppm (1) 252:23 **PR** (1) 235:13 Practical (5) 122:18;222:20; 237:3;270:10;297:5 practicality (1) 212:22 practically (1) 76:23 practice (9)

Burke Court Reporting & Transcription (973) 692-0660

18:2;44:16;84:17;	presentation (10)	prideful (1)
99:16;130:7;189:16;	43:15;44:12,24;	10:19
	52:20;67:11;83:16;	
222:19;244:15;256:6		primarily (12)
practiced (2)	90:22;137:7;176:16;	20:14;31:16;51:24;
284:2;300:8	277:8	55:8;56:24;109:1,22;
practices (21)	PRESENTATIONS (4)	168:6;230:14;263:12;
75:12;93:14;	97:13;103:6;	268:2;275:14
102:15;105:18;108:5;	128:16;228:17	primary (6)
136:1;140:1;161:10;	presented (4)	22:17;73:3;80:24;
183:11;184:17,18;	32:3;165:14;	169:1;295:5;297:2
		· · · ·
189:14,23;283:10;	176:10;274:12	prime (1)
285:23;289:21;	presenting (2)	144:9
291:14,15,22;293:2,	54:22;120:8	principle (3)
12	presents (3)	186:21;242:25;
Prairie (1)	26:5;162:4;222:14	265:2
168:4	preservation (1)	principles (3)
praise (1)	8:3	112:21;123:18;
87:6		
	preserved (1)	239:12
preaching (1)	258:18	printed (2)
67:8	preserving (1)	35:2;147:24
preamble (2)	293:14	printing (1)
84:15,21	President (1)	147:24
precautionary (2)	176:1	Prior (3)
242:25;265:2	press (1)	8:12;23:18;116:7
precautions (1)	203:19	priorities (15)
296:10	pressure (4)	94:2,4,8,11,18,22,
precedent (1)	203:6;208:11;	22;106:1;109:11;
247:20	237:13,16	111:12;231:24;279:2;
precisely (1)	pressures (1)	280:19,23,24
119:16	248:9	prioritize (1)
predictability (1)	pretty (26)	162:7
184:23	12:10,19;16:21,24;	prioritizing (1)
	12.10,17,10.21,27,	p_{101} m_{L} (1)
predictive (1)	25:17;44:10;45:21;	202:13
predictive (1) 236:3	25:17;44:10;45:21; 51:12;59:8;65:22;	202:13 priority (9)
predictive (1) 236:3 predominantly (1)	25:17;44:10;45:21; 51:12;59:8;65:22; 85:18;98:14;116:4;	202:13 priority (9) 109:11;129:9;
predictive (1) 236:3 predominantly (1) 230:14	25:17;44:10;45:21; 51:12;59:8;65:22; 85:18;98:14;116:4; 149:17,25;157:9;	202:13 priority (9) 109:11;129:9; 200:14,16;205:4;
predictive (1) 236:3 predominantly (1)	25:17;44:10;45:21; 51:12;59:8;65:22; 85:18;98:14;116:4;	202:13 priority (9) 109:11;129:9;
predictive (1) 236:3 predominantly (1) 230:14 preference (1)	25:17;44:10;45:21; 51:12;59:8;65:22; 85:18;98:14;116:4; 149:17,25;157:9; 187:11;198:12;	202:13 priority (9) 109:11;129:9; 200:14,16;205:4;
predictive (1) 236:3 predominantly (1) 230:14 preference (1) 110:20	25:17;44:10;45:21; 51:12;59:8;65:22; 85:18;98:14;116:4; 149:17,25;157:9; 187:11;198:12; 199:15;214:4;228:19;	202:13 priority (9) 109:11;129:9; 200:14,16;205:4; 213:16;227:22;279:6; 288:20
predictive (1) 236:3 predominantly (1) 230:14 preference (1) 110:20 preferred (1)	25:17;44:10;45:21; 51:12;59:8;65:22; 85:18;98:14;116:4; 149:17,25;157:9; 187:11;198:12; 199:15;214:4;228:19; 245:12;247:13,21;	202:13 priority (9) 109:11;129:9; 200:14,16;205:4; 213:16;227:22;279:6; 288:20 prison (1)
predictive (1) 236:3 predominantly (1) 230:14 preference (1) 110:20 preferred (1) 110:18	25:17;44:10;45:21; 51:12;59:8;65:22; 85:18;98:14;116:4; 149:17,25;157:9; 187:11;198:12; 199:15;214:4;228:19; 245:12;247:13,21; 248:1;284:13	202:13 priority (9) 109:11;129:9; 200:14,16;205:4; 213:16;227:22;279:6; 288:20 prison (1) 89:5
predictive (1) 236:3 predominantly (1) 230:14 preference (1) 110:20 preferred (1) 110:18 prefers (1)	25:17;44:10;45:21; 51:12;59:8;65:22; 85:18;98:14;116:4; 149:17,25;157:9; 187:11;198:12; 199:15;214:4;228:19; 245:12;247:13,21; 248:1;284:13 prevails (1)	202:13 priority (9) 109:11;129:9; 200:14,16;205:4; 213:16;227:22;279:6; 288:20 prison (1) 89:5 pristine (2)
predictive (1) 236:3 predominantly (1) 230:14 preference (1) 110:20 preferred (1) 110:18 prefers (1) 270:17	25:17;44:10;45:21; 51:12;59:8;65:22; 85:18;98:14;116:4; 149:17,25;157:9; 187:11;198:12; 199:15;214:4;228:19; 245:12;247:13,21; 248:1;284:13 prevails (1) 93:24	202:13 priority (9) 109:11;129:9; 200:14,16;205:4; 213:16;227:22;279:6; 288:20 prison (1) 89:5 pristine (2) 298:6,11
predictive (1) 236:3 predominantly (1) 230:14 preference (1) 110:20 preferred (1) 110:18 prefers (1) 270:17 premium (9)	25:17;44:10;45:21; 51:12;59:8;65:22; 85:18;98:14;116:4; 149:17,25;157:9; 187:11;198:12; 199:15;214:4;228:19; 245:12;247:13,21; 248:1;284:13 prevails (1) 93:24 prevent (1)	202:13 priority (9) 109:11;129:9; 200:14,16;205:4; 213:16;227:22;279:6; 288:20 prison (1) 89:5 pristine (2) 298:6,11 private (25)
predictive (1) 236:3 predominantly (1) 230:14 preference (1) 110:20 preferred (1) 110:18 prefers (1) 270:17 premium (9) 208:13;211:9;	25:17;44:10;45:21; 51:12;59:8;65:22; 85:18;98:14;116:4; 149:17,25;157:9; 187:11;198:12; 199:15;214:4;228:19; 245:12;247:13,21; 248:1;284:13 prevails (1) 93:24 prevent (1) 168:17	202:13 priority (9) 109:11;129:9; 200:14,16;205:4; 213:16;227:22;279:6; 288:20 prison (1) 89:5 pristine (2) 298:6,11 private (25) 65:4,7,10,11,17,19;
predictive (1) 236:3 predominantly (1) 230:14 preference (1) 110:20 preferred (1) 110:18 prefers (1) 270:17 premium (9)	25:17;44:10;45:21; 51:12;59:8;65:22; 85:18;98:14;116:4; 149:17,25;157:9; 187:11;198:12; 199:15;214:4;228:19; 245:12;247:13,21; 248:1;284:13 prevails (1) 93:24 prevent (1)	202:13 priority (9) 109:11;129:9; 200:14,16;205:4; 213:16;227:22;279:6; 288:20 prison (1) 89:5 pristine (2) 298:6,11 private (25)
predictive (1) 236:3 predominantly (1) 230:14 preference (1) 110:20 preferred (1) 110:18 prefers (1) 270:17 premium (9) 208:13;211:9; 215:20,22,23;216:1,	25:17;44:10;45:21; 51:12;59:8;65:22; 85:18;98:14;116:4; 149:17,25;157:9; 187:11;198:12; 199:15;214:4;228:19; 245:12;247:13,21; 248:1;284:13 prevails (1) 93:24 prevent (1) 168:17 prevention (3)	202:13 priority (9) 109:11;129:9; 200:14,16;205:4; 213:16;227:22;279:6; 288:20 prison (1) 89:5 pristine (2) 298:6,11 private (25) 65:4,7,10,11,17,19; 77:19;166:13,15,18,
predictive (1) 236:3 predominantly (1) 230:14 preference (1) 110:20 preferred (1) 110:18 prefers (1) 270:17 premium (9) 208:13;211:9; 215:20,22,23;216:1, 12,14;222:14	25:17;44:10;45:21; 51:12;59:8;65:22; 85:18;98:14;116:4; 149:17,25;157:9; 187:11;198:12; 199:15;214:4;228:19; 245:12;247:13,21; 248:1;284:13 prevails (1) 93:24 prevent (1) 168:17 prevention (3) 76:12;85:3,7	202:13 priority (9) 109:11;129:9; 200:14,16;205:4; 213:16;227:22;279:6; 288:20 prison (1) 89:5 pristine (2) 298:6,11 private (25) 65:4,7,10,11,17,19; 77:19;166:13,15,18, 20;167:10,11,13,17,
predictive (1) 236:3 predominantly (1) 230:14 preference (1) 110:20 preferred (1) 110:18 prefers (1) 270:17 premium (9) 208:13;211:9; 215:20,22,23;216:1, 12,14;222:14 premiums (1)	25:17;44:10;45:21; 51:12;59:8;65:22; 85:18;98:14;116:4; 149:17,25;157:9; 187:11;198:12; 199:15;214:4;228:19; 245:12;247:13,21; 248:1;284:13 prevails (1) 93:24 prevent (1) 168:17 prevention (3) 76:12;85:3,7 previous (5)	202:13 priority (9) 109:11;129:9; 200:14,16;205:4; 213:16;227:22;279:6; 288:20 prison (1) 89:5 pristine (2) 298:6,11 private (25) 65:4,7,10,11,17,19; 77:19;166:13,15,18, 20;167:10,11,13,17, 19,20,23,25;168:5;
predictive (1) 236:3 predominantly (1) 230:14 preference (1) 110:20 preferred (1) 110:18 prefers (1) 270:17 premium (9) 208:13;211:9; 215:20,22,23;216:1, 12,14;222:14 premiums (1) 277:13	25:17;44:10;45:21; 51:12;59:8;65:22; 85:18;98:14;116:4; 149:17,25;157:9; 187:11;198:12; 199:15;214:4;228:19; 245:12;247:13,21; 248:1;284:13 prevails (1) 93:24 prevent (1) 168:17 prevention (3) 76:12;85:3,7 previous (5) 88:19;135:4;138:4;	202:13 priority (9) 109:11;129:9; 200:14,16;205:4; 213:16;227:22;279:6; 288:20 prison (1) 89:5 pristine (2) 298:6,11 private (25) 65:4,7,10,11,17,19; 77:19;166:13,15,18, 20;167:10,11,13,17, 19,20,23,25;168:5; 232:7,11,18;248:15;
predictive (1) 236:3 predominantly (1) 230:14 preference (1) 110:20 preferred (1) 110:18 prefers (1) 270:17 premium (9) 208:13;211:9; 215:20,22,23;216:1, 12,14;222:14 premiums (1) 277:13 preparation (1)	25:17;44:10;45:21; 51:12;59:8;65:22; 85:18;98:14;116:4; 149:17,25;157:9; 187:11;198:12; 199:15;214:4;228:19; 245:12;247:13,21; 248:1;284:13 prevails (1) 93:24 prevent (1) 168:17 prevention (3) 76:12;85:3,7 previous (5) 88:19;135:4;138:4; 171:19;270:12	202:13 priority (9) 109:11;129:9; 200:14,16;205:4; 213:16;227:22;279:6; 288:20 prison (1) 89:5 pristine (2) 298:6,11 private (25) 65:4,7,10,11,17,19; 77:19;166:13,15,18, 20;167:10,11,13,17, 19,20,23,25;168:5; 232:7,11,18;248:15; 283:12
predictive (1) 236:3 predominantly (1) 230:14 preference (1) 110:20 preferred (1) 110:18 prefers (1) 270:17 premium (9) 208:13;211:9; 215:20,22,23;216:1, 12,14;222:14 premiums (1) 277:13 preparation (1) 109:17	25:17;44:10;45:21; 51:12;59:8;65:22; 85:18;98:14;116:4; 149:17,25;157:9; 187:11;198:12; 199:15;214:4;228:19; 245:12;247:13,21; 248:1;284:13 prevails (1) 93:24 prevent (1) 168:17 prevention (3) 76:12;85:3,7 previous (5) 88:19;135:4;138:4; 171:19;270:12 previously (2)	202:13 priority (9) 109:11;129:9; 200:14,16;205:4; 213:16;227:22;279:6; 288:20 prison (1) 89:5 pristine (2) 298:6,11 private (25) 65:4,7,10,11,17,19; 77:19;166:13,15,18, 20;167:10,11,13,17, 19,20,23,25;168:5; 232:7,11,18;248:15; 283:12 privilege (1)
predictive (1) 236:3 predominantly (1) 230:14 preference (1) 110:20 preferred (1) 110:18 prefers (1) 270:17 premium (9) 208:13;211:9; 215:20,22,23;216:1, 12,14;222:14 premiums (1) 277:13 preparation (1) 109:17 prepare (1)	25:17;44:10;45:21; 51:12;59:8;65:22; 85:18;98:14;116:4; 149:17,25;157:9; 187:11;198:12; 199:15;214:4;228:19; 245:12;247:13,21; 248:1;284:13 prevails (1) 93:24 prevent (1) 168:17 prevention (3) 76:12;85:3,7 previous (5) 88:19;135:4;138:4; 171:19;270:12 previously (2) 40:21;267:24	202:13 priority (9) 109:11;129:9; 200:14,16;205:4; 213:16;227:22;279:6; 288:20 prison (1) 89:5 pristine (2) 298:6,11 private (25) 65:4,7,10,11,17,19; 77:19;166:13,15,18, 20;167:10,11,13,17, 19,20,23,25;168:5; 232:7,11,18;248:15; 283:12 privilege (1) 128:3
predictive (1) 236:3 predominantly (1) 230:14 preference (1) 110:20 preferred (1) 110:18 prefers (1) 270:17 premium (9) 208:13;211:9; 215:20,22,23;216:1, 12,14;222:14 premiums (1) 277:13 preparation (1) 109:17	25:17;44:10;45:21; 51:12;59:8;65:22; 85:18;98:14;116:4; 149:17,25;157:9; 187:11;198:12; 199:15;214:4;228:19; 245:12;247:13,21; 248:1;284:13 prevails (1) 93:24 prevent (1) 168:17 prevention (3) 76:12;85:3,7 previous (5) 88:19;135:4;138:4; 171:19;270:12 previously (2)	202:13 priority (9) 109:11;129:9; 200:14,16;205:4; 213:16;227:22;279:6; 288:20 prison (1) 89:5 pristine (2) 298:6,11 private (25) 65:4,7,10,11,17,19; 77:19;166:13,15,18, 20;167:10,11,13,17, 19,20,23,25;168:5; 232:7,11,18;248:15; 283:12 privilege (1)
predictive (1) 236:3 predominantly (1) 230:14 preference (1) 110:20 preferred (1) 110:18 prefers (1) 270:17 premium (9) 208:13;211:9; 215:20,22,23;216:1, 12,14;222:14 premiums (1) 277:13 preparation (1) 109:17 prepare (1) 143:3	25:17;44:10;45:21; 51:12;59:8;65:22; 85:18;98:14;116:4; 149:17,25;157:9; 187:11;198:12; 199:15;214:4;228:19; 245:12;247:13,21; 248:1;284:13 prevails (1) 93:24 prevent (1) 168:17 preventi (3) 76:12;85:3,7 previous (5) 88:19;135:4;138:4; 171:19;270:12 previously (2) 40:21;267:24 price (11)	202:13 priority (9) 109:11;129:9; 200:14,16;205:4; 213:16;227:22;279:6; 288:20 prison (1) 89:5 pristine (2) 298:6,11 private (25) 65:4,7,10,11,17,19; 77:19;166:13,15,18, 20;167:10,11,13,17, 19,20,23,25;168:5; 232:7,11,18;248:15; 283:12 privilege (1) 128:3
predictive (1) 236:3 predominantly (1) 230:14 preference (1) 110:20 preferred (1) 110:18 prefers (1) 270:17 premium (9) 208:13;211:9; 215:20,22,23;216:1, 12,14;222:14 premiums (1) 277:13 preparation (1) 109:17 prepare (1) 143:3 prepared (1)	25:17;44:10;45:21; 51:12;59:8;65:22; 85:18;98:14;116:4; 149:17,25;157:9; 187:11;198:12; 199:15;214:4;228:19; 245:12;247:13,21; 248:1;284:13 prevails (1) 93:24 prevent (1) 168:17 prevention (3) 76:12;85:3,7 previous (5) 88:19;135:4;138:4; 171:19;270:12 previously (2) 40:21;267:24 price (11) 211:9;216:12,14;	202:13 priority (9) 109:11;129:9; 200:14,16;205:4; 213:16;227:22;279:6; 288:20 prison (1) 89:5 pristine (2) 298:6,11 private (25) 65:4,7,10,11,17,19; 77:19;166:13,15,18, 20;167:10,11,13,17, 19,20,23,25;168:5; 232:7,11,18;248:15; 283:12 privilege (1) 128:3 pro (1) 276:8
predictive (1) 236:3 predominantly (1) 230:14 preference (1) 110:20 preferred (1) 110:18 prefers (1) 270:17 premium (9) 208:13;211:9; 215:20,22,23;216:1, 12,14;222:14 premiums (1) 277:13 preparation (1) 109:17 prepare (1) 143:3 prepared (1) 118:14	25:17;44:10;45:21; 51:12;59:8;65:22; 85:18;98:14;116:4; 149:17,25;157:9; 187:11;198:12; 199:15;214:4;228:19; 245:12;247:13,21; 248:1;284:13 prevails (1) 93:24 prevent (1) 168:17 prevention (3) 76:12;85:3,7 previous (5) 88:19;135:4;138:4; 171:19;270:12 previously (2) 40:21;267:24 price (11) 211:9;216:12,14; 217:9;218:14,15;	202:13 priority (9) 109:11;129:9; 200:14,16;205:4; 213:16;227:22;279:6; 288:20 prison (1) 89:5 pristine (2) 298:6,11 private (25) 65:4,7,10,11,17,19; 77:19;166:13,15,18, 20;167:10,11,13,17, 19,20,23,25;168:5; 232:7,11,18;248:15; 283:12 privilege (1) 128:3 pro (1) 276:8 proactive (2)
predictive (1) 236:3 predominantly (1) 230:14 preference (1) 110:20 preferred (1) 110:18 prefers (1) 270:17 premium (9) 208:13;211:9; 215:20,22,23;216:1, 12,14;222:14 premiums (1) 277:13 preparation (1) 109:17 prepare (1) 143:3 prepared (1) 118:14 preparing (1)	25:17;44:10;45:21; 51:12;59:8;65:22; 85:18;98:14;116:4; 149:17,25;157:9; 187:11;198:12; 199:15;214:4;228:19; 245:12;247:13,21; 248:1;284:13 prevails (1) 93:24 prevent (1) 168:17 prevention (3) 76:12;85:3,7 previous (5) 88:19;135:4;138:4; 171:19;270:12 previously (2) 40:21;267:24 price (11) 211:9;216:12,14; 217:9;218:14,15; 222:14;261:25;	202:13 priority (9) 109:11;129:9; 200:14,16;205:4; 213:16;227:22;279:6; 288:20 prison (1) 89:5 pristine (2) 298:6,11 private (25) 65:4,7,10,11,17,19; 77:19;166:13,15,18, 20;167:10,11,13,17, 19,20,23,25;168:5; 232:7,11,18;248:15; 283:12 privilege (1) 128:3 pro (1) 276:8 proactive (2) 155:7;208:1
predictive (1) 236:3 predominantly (1) 230:14 preference (1) 110:20 preferred (1) 110:18 prefers (1) 270:17 premium (9) 208:13;211:9; 215:20,22,23;216:1, 12,14;222:14 premiums (1) 277:13 preparation (1) 109:17 prepare (1) 143:3 prepared (1) 118:14 preparing (1) 263:22	25:17;44:10;45:21; 51:12;59:8;65:22; 85:18;98:14;116:4; 149:17,25;157:9; 187:11;198:12; 199:15;214:4;228:19; 245:12;247:13,21; 248:1;284:13 prevails (1) 93:24 prevent (1) 168:17 prevention (3) 76:12;85:3,7 previous (5) 88:19;135:4;138:4; 171:19;270:12 previously (2) 40:21;267:24 price (11) 211:9;216:12,14; 217:9;218:14,15; 222:14;261:25; 280:10;294:1,2	202:13 priority (9) 109:11;129:9; 200:14,16;205:4; 213:16;227:22;279:6; 288:20 prison (1) 89:5 pristine (2) 298:6,11 private (25) 65:4,7,10,11,17,19; 77:19;166:13,15,18, 20;167:10,11,13,17, 19,20,23,25;168:5; 232:7,11,18;248:15; 283:12 privilege (1) 128:3 pro (1) 276:8 proactive (2) 155:7;208:1 probably (27)
predictive (1) 236:3 predominantly (1) 230:14 preference (1) 110:20 preferred (1) 110:18 prefers (1) 270:17 premium (9) 208:13;211:9; 215:20,22,23;216:1, 12,14;222:14 premiums (1) 277:13 preparation (1) 109:17 prepare (1) 143:3 prepared (1) 118:14 preparing (1) 263:22 presence (4)	25:17;44:10;45:21; 51:12;59:8;65:22; 85:18;98:14;116:4; 149:17,25;157:9; 187:11;198:12; 199:15;214:4;228:19; 245:12;247:13,21; 248:1;284:13 prevails (1) 93:24 prevent (1) 168:17 prevention (3) 76:12;85:3,7 previous (5) 88:19;135:4;138:4; 171:19;270:12 previously (2) 40:21;267:24 price (11) 211:9;216:12,14; 217:9;218:14,15; 222:14;261:25; 280:10;294:1,2 priceless (1)	202:13 priority (9) 109:11;129:9; 200:14,16;205:4; 213:16;227:22;279:6; 288:20 prison (1) 89:5 pristine (2) 298:6,11 private (25) 65:4,7,10,11,17,19; 77:19;166:13,15,18, 20;167:10,11,13,17, 19,20,23,25;168:5; 232:7,11,18;248:15; 283:12 privilege (1) 128:3 pro (1) 276:8 proactive (2) 155:7;208:1 probably (27) 10:17;32:21;33:17;
predictive (1) 236:3 predominantly (1) 230:14 preference (1) 110:20 preferred (1) 110:18 prefers (1) 270:17 premium (9) 208:13;211:9; 215:20,22,23;216:1, 12,14;222:14 premiums (1) 277:13 preparation (1) 109:17 prepare (1) 143:3 prepared (1) 118:14 preparing (1) 263:22 presence (4) 54:24;61:3;162:2;	25:17;44:10;45:21; 51:12;59:8;65:22; 85:18;98:14;116:4; 149:17,25;157:9; 187:11;198:12; 199:15;214:4;228:19; 245:12;247:13,21; 248:1;284:13 prevails (1) 93:24 prevent (1) 168:17 prevention (3) 76:12;85:3,7 previous (5) 88:19;135:4;138:4; 171:19;270:12 previously (2) 40:21;267:24 price (11) 211:9;216:12,14; 217:9;218:14,15; 222:14;261:25; 280:10;294:1,2 priceless (1) 241:5	202:13 priority (9) 109:11;129:9; 200:14,16;205:4; 213:16;227:22;279:6; 288:20 prison (1) 89:5 pristine (2) 298:6,11 private (25) 65:4,7,10,11,17,19; 77:19;166:13,15,18, 20;167:10,11,13,17, 19,20,23,25;168:5; 232:7,11,18;248:15; 283:12 privilege (1) 128:3 pro (1) 276:8 proactive (2) 155:7;208:1 probably (27) 10:17;32:21;33:17; 74:7;93:7;99:25;
predictive (1) 236:3 predominantly (1) 230:14 preference (1) 110:20 preferred (1) 110:18 prefers (1) 270:17 premium (9) 208:13;211:9; 215:20,22,23;216:1, 12,14;222:14 premiums (1) 277:13 preparation (1) 109:17 prepare (1) 143:3 prepared (1) 118:14 preparing (1) 263:22 presence (4) 54:24;61:3;162:2; 248:20	25:17;44:10;45:21; 51:12;59:8;65:22; 85:18;98:14;116:4; 149:17,25;157:9; 187:11;198:12; 199:15;214:4;228:19; 245:12;247:13,21; 248:1;284:13 prevails (1) 93:24 prevent (1) 168:17 prevention (3) 76:12;85:3,7 previous (5) 88:19;135:4;138:4; 171:19;270:12 previously (2) 40:21;267:24 price (11) 211:9;216:12,14; 217:9;218:14,15; 222:14;261:25; 280:10;294:1,2 priceless (1) 241:5 prices (5)	202:13 priority (9) 109:11;129:9; 200:14,16;205:4; 213:16;227:22;279:6; 288:20 prison (1) 89:5 pristine (2) 298:6,11 private (25) 65:4,7,10,11,17,19; 77:19;166:13,15,18, 20;167:10,11,13,17, 19,20,23,25;168:5; 232:7,11,18;248:15; 283:12 privilege (1) 128:3 pro (1) 276:8 proactive (2) 155:7;208:1 probably (27) 10:17;32:21;33:17; 74:7;93:7;99:25; 126:23;148:1;166:17,
predictive (1) 236:3 predominantly (1) 230:14 preference (1) 110:20 preferred (1) 110:18 prefers (1) 270:17 premium (9) 208:13;211:9; 215:20,22,23;216:1, 12,14;222:14 premiums (1) 277:13 preparation (1) 109:17 prepare (1) 143:3 prepared (1) 118:14 preparing (1) 263:22 presence (4) 54:24;61:3;162:2;	25:17;44:10;45:21; 51:12;59:8;65:22; 85:18;98:14;116:4; 149:17,25;157:9; 187:11;198:12; 199:15;214:4;228:19; 245:12;247:13,21; 248:1;284:13 prevails (1) 93:24 prevent (1) 168:17 prevention (3) 76:12;85:3,7 previous (5) 88:19;135:4;138:4; 171:19;270:12 previously (2) 40:21;267:24 price (11) 211:9;216:12,14; 217:9;218:14,15; 222:14;261:25; 280:10;294:1,2 priceless (1) 241:5	202:13 priority (9) 109:11;129:9; 200:14,16;205:4; 213:16;227:22;279:6; 288:20 prison (1) 89:5 pristine (2) 298:6,11 private (25) 65:4,7,10,11,17,19; 77:19;166:13,15,18, 20;167:10,11,13,17, 19,20,23,25;168:5; 232:7,11,18;248:15; 283:12 privilege (1) 128:3 pro (1) 276:8 proactive (2) 155:7;208:1 probably (27) 10:17;32:21;33:17; 74:7;93:7;99:25;
predictive (1) 236:3 predominantly (1) 230:14 preference (1) 110:20 preferred (1) 110:18 prefers (1) 270:17 premium (9) 208:13;211:9; 215:20,22,23;216:1, 12,14;222:14 premiums (1) 277:13 preparation (1) 109:17 prepare (1) 143:3 prepared (1) 118:14 preparing (1) 263:22 presence (4) 54:24;61:3;162:2; 248:20 present (9)	25:17;44:10;45:21; 51:12;59:8;65:22; 85:18;98:14;116:4; 149:17,25;157:9; 187:11;198:12; 199:15;214:4;228:19; 245:12;247:13,21; 248:1;284:13 prevails (1) 93:24 prevent (1) 168:17 prevent (3) 76:12;85:3,7 previous (5) 88:19;135:4;138:4; 171:19;270:12 previously (2) 40:21;267:24 price (11) 211:9;216:12,14; 217:9;218:14,15; 222:14;261:25; 280:10;294:1,2 priceless (1) 241:5 prices (5) 14:20;197:1,17;	202:13 priority (9) 109:11;129:9; 200:14,16;205:4; 213:16;227:22;279:6; 288:20 prison (1) 89:5 pristine (2) 298:6,11 private (25) 65:4,7,10,11,17,19; 77:19;166:13,15,18, 20;167:10,11,13,17, 19,20,23,25;168:5; 232:7,11,18;248:15; 283:12 privilege (1) 128:3 pro (1) 276:8 proactive (2) 155:7;208:1 probably (27) 10:17;32:21;33:17; 74:7;93:7;99:25; 126:23;148:1;166:17, 22;172:16;174:5,20;
predictive (1) 236:3 predominantly (1) 230:14 preference (1) 110:20 preferred (1) 110:18 prefers (1) 270:17 premium (9) 208:13;211:9; 215:20,22,23;216:1, 12,14;222:14 premiums (1) 277:13 preparation (1) 109:17 prepare (1) 143:3 prepared (1) 118:14 preparing (1) 263:22 presence (4) 54:24;61:3;162:2; 248:20 present (9) 28:7;45:11,12;	25:17;44:10;45:21; 51:12;59:8;65:22; 85:18;98:14;116:4; 149:17,25;157:9; 187:11;198:12; 199:15;214:4;228:19; 245:12;247:13,21; 248:1;284:13 prevails (1) 93:24 prevent (1) 168:17 prevent (3) 76:12;85:3,7 previous (5) 88:19;135:4;138:4; 171:19;270:12 previously (2) 40:21;267:24 price (11) 211:9;216:12,14; 217:9;218:14,15; 222:14;261:25; 280:10;294:1,2 priceless (1) 241:5 prices (5) 14:20;197:1,17; 260:23;262:14	202:13 priority (9) 109:11;129:9; 200:14,16;205:4; 213:16;227:22;279:6; 288:20 prison (1) 89:5 pristine (2) 298:6,11 private (25) 65:4,7,10,11,17,19; 77:19;166:13,15,18, 20;167:10,11,13,17, 19,20,23,25;168:5; 232:7,11,18;248:15; 283:12 privilege (1) 128:3 pro (1) 276:8 proactive (2) 155:7;208:1 probably (27) 10:17;32:21;33:17; 74:7;93:7;99:25; 126:23;148:1;166:17, 22;172:16;174:5,20; 178:14;198:15;209:3;
predictive (1) 236:3 predominantly (1) 230:14 preference (1) 110:20 preferred (1) 110:18 prefers (1) 270:17 premium (9) 208:13;211:9; 215:20,22,23;216:1, 12,14;222:14 premiums (1) 277:13 preparation (1) 109:17 prepare (1) 143:3 prepared (1) 118:14 preparing (1) 263:22 presence (4) 54:24;61:3;162:2; 248:20 present (9)	25:17;44:10;45:21; 51:12;59:8;65:22; 85:18;98:14;116:4; 149:17,25;157:9; 187:11;198:12; 199:15;214:4;228:19; 245:12;247:13,21; 248:1;284:13 prevails (1) 93:24 prevent (1) 168:17 prevent (3) 76:12;85:3,7 previous (5) 88:19;135:4;138:4; 171:19;270:12 previously (2) 40:21;267:24 price (11) 211:9;216:12,14; 217:9;218:14,15; 222:14;261:25; 280:10;294:1,2 priceless (1) 241:5 prices (5) 14:20;197:1,17;	202:13 priority (9) 109:11;129:9; 200:14,16;205:4; 213:16;227:22;279:6; 288:20 prison (1) 89:5 pristine (2) 298:6,11 private (25) 65:4,7,10,11,17,19; 77:19;166:13,15,18, 20;167:10,11,13,17, 19,20,23,25;168:5; 232:7,11,18;248:15; 283:12 privilege (1) 128:3 pro (1) 276:8 proactive (2) 155:7;208:1 probably (27) 10:17;32:21;33:17; 74:7;93:7;99:25; 126:23;148:1;166:17, 22;172:16;174:5,20;

250:15:257:20; 280:15;294:12 probe (1) 232:13 :109:1.22; probiotic (1) 14;263:12; 273:9 problem (33) 49:10,11:65:2; 81:19;82:23;85:25; 125:5,13:127:20; 160:8;166:3;174:9; 185:21;186:11;193:7; 201:15;215:17,19; 216:1;217:6;230:1; 237:21;242:9,12; 243:11;252:17; 264:14;277:14,23; 300:19,20,20;301:4 problems (21) 27:7;39:18;61:13, 14,19;65:21;67:24; 82:3;85:24;144:20; 156:20;157:1;182:18; 217:14;233:5;244:17; 264:3;278:14,15,16; 300:18 procedure (1) 1:24;279:2; 133:25 Procedures (4) 6:19:142:14; 296:19,20 proceed (1) 55:20 process (74) 12:15;14:8;24:9,15; 27:14;40:8;45:4;53:5, 7:22;279:6; 9,11;54:4,5,19;55:6; 62:15;64:1;67:22,23; 70:25;71:17;77:18; 82:13;84:5;87:10,14, 19;89:20;94:10,17; 118:6;120:20;148:14; 149:1;150:10;151:8; 152:15,19,23;153:17; :13,15,18, 156:2;161:22;181:10, ,11,13,17, 10;189:13;199:8; 201:22;207:9,12,17, 8;248:15; 18,19;208:2;211:24; 213:8;219:16,17; 245:8;249:7,11,13,15, 16,18,19;250:12; 257:11;265:18,22; 268:7;269:23;271:6, 25;273:1;278:24 processed (1) 173:23 processes (6) 89:21;190:21; 8:1;166:17, 200:24;202:16;212:1; :174:5,20; 237:22 8:15;209:3; processing (4) 9:243:16; 10:11:12:23:129:2, 8

processor (2) 12:16;223:22 processors (5) 62:18;160:18; 223:14,18;254:3 produce (18) 10:3;11:3;12:8; 37:17,19;167:16; 179:14;207:13; 255:12;264:2;268:3; 274:5,11,20;287:24; 288:2,14;289:11 produced (8) 11:24;33:3;34:5; 152:20;168:23; 177:12;179:19; 268:10 producer (12) 10:14;19:17;21:17; 106:7;107:21;169:6; 181:8;220:10;224:7; 260:12;261:17; 270:23 producers (39) 37:15;38:19;40:10; 56:12;62:18;80:5; 81:11;102:12,24; 115:23;129:10,17; 133:12;140:6,7,16,16, 17:144:1:176:17: 181:17;197:12;203:5, 9:207:9:222:1.2.8.12:

19:16 produces (3) 84:8;255:16;269:20 producing (3) 195:7;269:9;271:7 product (62) 12:17;14:4,5;48:10, 23;49:13,20,21;50:4; 51:25;54:25;56:16; 57:5;58:11;60:9,10, 11,19;66:7;68:16,17; 76:24;77:1,8;85:3; 91:12;92:2,5;146:9; 147:1,2,21;149:19; 154:17;157:15;165:2; 169:11;170:8,9; 177:7;178:25;195:22, 24;198:10;214:2; 215:6,7;219:17; 251:13,17;252:3; 254:18;260:14; 265:22;267:10,13; 268:10,18;271:17; 274:23;275:8,9 production (69) 8:8;10:25;12:23; 14:16;21:2,3;22:12;

223:16;251:10;252:7,

13;254:4,10;262:13;

280:12;282:7;285:25

producer's (1)

Burke Court Reporting & Transcription (973) 692-0660

30:2;45:6;71:14;72:1, 11:79:6:87:23:100:5: 102:1;106:6;108:15; 110:12;113:13;129:1; 145:20;149:15;161:7, 15,18,19,25;162:2; 164:24;165:4;169:3; 176:21,22;177:10; 178:21,24;184:11; 194:24,25;195:5; 197:11;216:22; 239:12:240:1:251:21; 253:7;254:25;261:22, 24;278:15,16;286:11; 287:16,20;288:8,9,10, 16,25;289:2,2,4,5,15, 19;290:7,25;291:23 productive (1) 30:7 products (51) 8:9;12:24;19:14; 34:5;37:17;38:19; 47:8,22;52:6;54:20; 57:15;77:4,5;79:7; 81:10;82:3;91:21; 143:24;144:1,9,18,25; 145:4;147:11,18; 151:21;155:10,15; 157:6;164:20;168:16; 299:23 169:2;184:18;213:3; 244:10:245:21; 139:7 254:15:264:6:269:9. 10:270:9:271:8; 80:9.14 272:16:273:22: 274:20,25;275:13,18, 19;294:11;299:22 programs (40) professional (1) 194:15 professionals (2) 103:5:213:12 profile (5) 96:3:166:10,14,18, 22 profiles (3) 79:18;164:12; 165:16 profitable (1) 262:2 profits (1) 295:21 8:10 program's (1) profound (1) 139:18 236:24 progress (14) profoundly (1) 138:15 Program (135) 6:11;7:8,11,14; 12:20;16:15;18:8,14; 283:19 26:18;27:15;28:5; progressing (1) 30:5,10;37:10;40:13; 29:13 41:13,14;42:23;43:8, progressive (1) 17;44:11,15;52:12; 67:21 69:18,21;70:14,20; prohibit (3) 71:13;72:16,18;75:2,

295:21 23;78:1,7;92:24;94:3; 97:6.12:98:13.15.18: prohibited (1) 100:1,16,20;102:6,17; 111:5 103:7.16:104:14: prohibitive (1) 105:7,11:107:10,22; 273:24 109:13;110:7,15; prohibits (1) 111:15;113:6,25; 34:7 114:4;116:23;117:9, project (13) 16:9;17:19,20; 14,22;119:15;120:18, 22,24;121:4;123:8; 18:10:31:9:32:16; 124:7;125:3;129:3, 73:14;93:25;124:14; 282:4;285:5;286:13; 10;130:23;131:10,21; 133:18,21,23;134:12; 298:21 135:22;136:7;137:8, projecting (1) 16,23;138:2,17,18,23; 42:12 140:21,22,23;141:5, projects (4) 22:15;30:25;75:20; 14;144:16;147:18; 156:17,20;159:9,14; 277:19 160:7,17,20;163:11, proliferation (2) 12;166:21;186:17; 145:14;273:2 189:7;190:3,6;191:5; promise (5) 9:3,20;11:7;44:25; 192:12;193:3,9,9; 196:11;203:2,8; 174:6 213:6,15;218:17; promises (1) 222:20,22;224:3; 67:5 promote (4) 225:11;245:3;254:11, 12;260:25;270:6; 34:24;197:10; 271:2,12;276:11; 219:1:281:23 promoted (2) programmatically (1) 193:20:254:16 promoting (3) programmed (2) 7:25:107:18:137:1 promotional (1) programming (2) 134:15 109:4;142:4 prompted (1) 171:21 8:9;12:21,22;13:12; prompts (1) 15:3,4,5,18;68:22,24; 161:11 pronounced (1) 69:4;72:14;74:22; 103:8:105:1:109:3: 168:22 111:8,13;113:8,24; pronunciation (1) 114:6,11,12;116:9; 171:5 126:18;127:23; pro-organic (1) 137:10;138:19;140:3; 116:20 191:21;201:17; proper (2) 203:18;210:13,14,14; 182:6;297:6 229:20;234:18; properly (1) 270:24;292:16; 157:8 properties (3) 130:4;274:13,14 property (2) 298:15.25 27:1;52:19;53:21, proportional (1) 24;58:14;74:9;75:19, 186:20 20;120:17;135:25; proposal (6) 233:2;276:23;282:5; 74:10;133:9; 162:22;202:22; 254:21,23 propose (1) 291:19 proposed (6) 36:22;89:12,12; 207:20;292:10; 161:21;170:3;239:18

proposes (2) 162:5,6 proposing (1) 264:24 proprietary (1) 168:6 protect (9) 91:8:92:5:153:23; 188:15;189:25; 220:25;269:9;283:21; 293:13 protected (6) 35:11,15;65:2,3,3,3 protecting (5) 62:17;65:25;210:2, 2;239:13 Protection (13) 7:7,23;20:2;46:17; 48:16;52:5;55:13; 56:3;70:13;199:16; 236:12;239:6;299:2 protections (1) 91:18 protective (1) 275:1 protects (2) 239:9,15 protein (3) 19:14;177:1;245:14 proteins (2) 180:4:182:7 protest (1) 264:24 protocol (1) 279:12 protocols (2) 200:21;299:9 proud (12)9:6,24,25;11:8; 14:6,9:21:23:121:2,2; 211:11,12;212:4 prove (2) 199:10;201:1 proved (1) 267:12 proven (3) 25:18;264:2;273:6 provide (30) 12:13;14:25;99:8; 105:8;108:16;122:24; 123:6;125:12;140:15; 150:7,13;195:20; 198:9;205:23;222:20; 224:22;239:24; 247:22;250:8;255:2, 25;270:4,4,8;275:2; 283:5,24;295:7,18; 296:18 provided (8) 55:16:167:24; 185:16:191:16:197:2: 200:17;246:25; 279:14

- Vol. 3 April 29, 2024

Providence (3) 95:16;277:8;281:4 providers (1) 110:14 provides (10) 12:13;106:11,13; 109:15;189:17; 202:13;236:23; 247:24;254:25; 270:18 providing (13) 7:3;14:22;75:9; 103:9;104:3,16; 105:4,19;109:1; 142:20;162:18;250:6; 274:25 province (1) 155:9 Proxy (1) 142:19 psyched (1) 78:17 public (61) 7:15;8:20,21;9:5; 12:22;20:11,18; 21:10;24:5,9;25:7,8; 29:11;35:13;36:17, 19,20,20;40:14; 70:11;72:6;74:12; 116:25;135:22;142:5, 10,14,18,20,23; 143:20:150:7:151:7: 160:24;161:1;165:18; 202:17;208:2;216:4; 221:23;225:24; 226:15,20;227:9,18, 23;228:3,7;238:19; 244:13;248:21;253:3; 254:2;256:12;257:19; 259:11:260:4:276:25; 278:21;279:11; 283:12 publicly (2) 58:16;284:13 public-private (5) 36:18;49:1;52:13; 222:7,15 publish (4) 45:1,5;160:22; 184:15 published (3) 47:24;69:14;152:7 publishes (1) 235:12 pull (2) 25:19;206:2 pulled (2) 31:8:89:7 pulling (1) 133:10 pullulan (18) 168:22,22,25; 169:2,6,7,9,24;171:5,

Burke Court Reporting & Transcription (973) 692-0660 (40) productive - pullulan

- Vol. 3 April 29, 2024

Spring 2024 Meeting			1	April 23, 2024
6,7,16,23;172:8,10,			207:1;236:4;242:18;	realized (5)
15,18;174:16	0	В	245:7;273:21;284:22;	31:6;116:17;
punch (1)	Q	R	245.7,275.21,284.22, 285:13	122:20;188:8;195:5
174:10	Q&A (5)	R&D (2)	ratio (14)	really (279)
puppies (1)	30:10;31:15;73:19,	186:24;247:25	244:14,18;245:4,9;	9:3,13,14,22,24;
119:13	20;128:6	rabbit (1)	265:11,14,19;266:2,	11:17;13:15,17;14:7;
Purchase (3)	QR (3)	37:8	13;277:9,12;278:3;	15:18;16:2;19:18;
114:4;195:7,13	37:5;38:15;40:3	rabbits (1)	279:23;280:13	27:1;30:21,23;31:12,
purchased (2)	qualified (1)	96:10	ration (1)	25;33:23;36:7,11,23;
130:4;195:12	206:4	racial (3)	178:16	37:15,25;39:5,17;
purchases (1)	qualify (1)	141:3;187:16;	ratios (4)	40:1;41:1;42:25;
255:11	299:23	202:16	243:25;244:7;	43:12;44:5,17;45:20;
purchasing (1)	quality (10)	rail (4)	265:17;280:9	46:5,17;47:21;48:15,
198:18	67:24;152:24;	195:19;198:10;	raucous (1)	20,21,22;51:17;52:10,
purees (1)	223:23;236:12;	199:6,11	246:13	13,15;53:6,7,15,24;
229:22	255:17;264:2;267:10,	railroad (1)	raw (8)	54:3,14,22;56:12;
purely (1)	20;268:10,18	198:8	150:22;151:1;	57:10;58:8;59:15;
156:21			169:1,7;173:24;	64:4,10,11,19,22,23;
purify (1)	quantities (1) 195:12	railroads (4)	218:7;251:13;268:8	65:1,14;66:3,5,5;
269:9		198:8,13,13,20	RCS (1)	68:16;69:17;70:9;
purity (1)	QUARCOO (3)	rain (1)	137:9	71:3,8;73:2,2;74:1,8,
297:4	20:1,1;237:10	261:6	reach (7)	16,23;75:3;76:2;
purpose (8)	quarter (8)	raise (7)	28:10;88:7;93:12;	78:17,23;79:3;81:24,
80:24;81:2;164:6;	70:21;72:18,20,21,	6:8;43:21;70:17;	101:6;133:25;134:12;	25;82:12;83:9;84:10,
166:19;167:11,12;	24;73:4;109:17,19	88:5;121:19;143:14;	203:16	12,13,14,22;85:18,24;
283:3,9	questionable (2)	227:2	reached (2)	86:13,18,21;87:9,12,
purposes (3)	244:11;254:15	raised (2)	108:9;122:14	15;88:8;90:2,18,22;
72:8,12;247:11	question's (2)	121:21;290:18	reaching (8)	91:1;92:19;95:16;
pursue (4)	129:19;249:4	raises (1)	69:17;88:2;105:3;	96:4;98:15;99:4;
105:5;111:9;160:5,	queue (2)	156:6	133:7,12;134:21;	100:10,14,16;101:4,6,
9	140:11;143:15	raising (1)	138:8;204:5	12,13;103:16,18;
purview (2)	quick (15)	227:25	reaction (2)	104:1,8;105:17,20;
74:14;81:14	7:4;28:1,3;45:6;	rally (1)	156:13;211:6	107:24;108:6;109:18;
push (7)	76:8;95:4;133:22;	26:9	reactions (1)	111:14;114:13,24;
89:9;119:19;221:4;	137:14;171:2;178:18;	ran (2)	185:7	115:1,22;116:12,16,
247:25;257:2;287:6;	190:5;238:16;287:15;	274:22;280:1	read (8)	17,22,22;119:10;
301:2	288:24;291:12	Ranchers (1)	36:24;115:16;	121:24;122:10;124:7;
pushback (2)	quickly (16)	176:1	150:14;157:13;	125:10,14,17;127:16,
47:6;136:15	49:11;51:22;57:15;	Randy (2)	172:13;183:16;	18,20;128:3;129:18;
pushing (3)	58:1;73:10;75:23;	7:5,22	208:15;241:21	131:14,19,21;132:10,
119:22;247:5;	79:15;92:25;133:18,	range (6)	readily (2)	25;133:19,22;136:18;
250:12	19;171:2;178:19;	29:22;55:7;106:17;	148:7;157:21	137:3;138:20;139:9,
put (31)	201:16;221:5;285:14,	134:14;158:5;176:20		21,25;140:18;141:4,6,
	15	rank (2)	reading (5)	
9:22;10:5;32:20; 34:19;35:19;44:25;	quietly (2)	10:25;225:10	84:18;148:15; 207:3;238:6;247:23	12,21;142:1;148:6; 150:5;152:20,22,23;
	6:6;300:23	ranked (3)		
60:10;69:15;93:17; 04:1:101:0:142:12:	quit (1)	11:4;106:6;116:5	ready (8)	155:14;157:2,3,6,24;
94:1;101:9;142:12;	241:20	ranking (1)	18:6;59:20;114:24;	172:8;174:25;179:9;
147:20;149:2;159:19; 171:20;174:9;178:13;	quite (33)	225:8	118:4;136:9;204:24;	181:8;183:6;184:1;
	24:22;25:22;31:6;	rapid (5)	248:1;249:6	185:23;187:3,13;
180:25;210:21;212:1;	39:8;50:15,16;53:10;	40:13;50:22;57:25;	real (22)	191:24;196:23;
221:10;225:23;253:3;	56:10,11;57:17;	67:19;233:7	44:20;45:18;47:10;	198:17;199:4;203:14;
259:12;266:5;279:20,	59:19;62:5;66:25;	rapidly (4)	54:18;66:15;68:4,11;	204:1,5,23;205:25;
22;287:7;290:21;	74:16;75:20;83:14;	102:22;152:5;	70:8;86:2;124:14;	206:3;208:14;209:10,
301:7	93:16;105:12;126:1;	234:7;240:14	140:3;178:19;183:21;	14;210:8,10,14,18,19;
puts (1)	140:19,21;155:5;	Rapids (1)	192:8;195:4;212:9;	211:19,19,21;212:3,
237:13	169:25;174:21;	123:15	224:23;228:1;233:6;	11;213:1,2,7;215:23;
putting (8)	198:13;216:15;219:9;	rate (3)	237:5;242:9;267:14	216:11;217:21;223:8,
35:6;49:9;65:12;	228:8;231:22;246:25;	116:5;177:17;193:2	realistic (2)	13;224:3;225:3,15;
78:18;118:23;204:4;	261:11,13;290:10	rates (2)	28:7;250:17	228:13;229:17,19;
215:23;262:5	quitting (1)	192:14;269:22	reality (2)	231:18;233:16;234:1,
puzzle (2)	119:16	rather (13)	219:8;241:23	7,19;235:2;237:6;
61:10;146:3	quote (1)	125:11;137:11,17;	realize (3)	238:8,12;244:9;
	154:16	161:12;175:8,14;	23:25;61:1;87:25	246:6,15,20;247:9;
	1	1	1	i

248:7;251:22,24,25; 253:1.6:256:20: 257:11:258:7:259:9; reception (5) 260:11;262:1,1,14; 231:23;286:8; 263:17;264:2,14; 265:21,25;266:22; recess (1) 267:19,22;268:1,4; 301:20 275:17;276:15,23; recessed (1) 278:15;279:17; 302:1 rechartering (1) 283:18;284:9,24; 285:3,23;286:18,23; 88:1 **Recognition** (1) 287:15;288:12,17,19; 289:4,25;290:14; 90:1 293:21 recognize (6) real-time (1) 49:13 reapply (1) recognized (4) 114:11;142:16; 70:3 295:20;296:1 reason (16) 10:5;137:13;149:7; recognizing (1) 176:24;182:4;187:24; 115:11 216:5:227:14.17: 234:11;236:2;245:20; 79:14;206:25; 249:23;252:16; 282:23 255:19;275:12 reasonable (2) 202:15;206:13; 159:3;212:18 reasonably (1) 283:2 75:23 recommending (1) reasons (10) 284:25 73:16:75:25:90:1; reconstruction (1) 96:21:141:7:168:6: 273:11 169:25;212:14;245:2; reconvene (1) 289:15 302:2 reassess (1) record (11) 45:15;71:15; 26:6 reassuring (1) 109:16:120:16; 124:6 Rebecca (1) 175:22;222:11; 246:15:293:6 18:4 rebranded (1) recorded (1) 112:11 51:21 recall (1) recording (1) 121:13 158:6 recordings (1) receipt (1) 26:7 160:24 receive (4) records (1) 33:6;83:19;254:18; 189:24 271:3 recruit (2) received (2) 204:20;206:6 71:2:138:19 recruiting (1) receivers (1) 140:5 153:22 recruitment (1) receiving (4) 206:8 84:2;182:6;189:19; recyclable (1) 216:21 144:13 recent (15) recycled (2) 15:3;29:11;33:25; 149:10,11 34:1;36:11;59:9; recycling (1) 71:13:89:11:145:9: 149:14 158:6:169:4:172:4: red (2) 59:9;187:17 207:3;225:6;236:20 reduce (8) recently (6)

17:18:19:13:20:12; 20:14:189:14; 45:19;152:7;263:16 227:15:269:10.11: 273:5,16,23 reduced (2) 291:12;301:15,25 240:7;274:18 reducing (4) 123:19;144:7: 145:22:292:9 **Reduction** (1) 271:2 reductions (2) 272:21;290:3 re-engage (1) 259:16 40:5;50:9;114:23; refer (2) 274:22;295:8;296:20 39:4;162:23 reference (2) 167:11;270:15 references (1) 65:18 referencing (2) recommendation (3) 208:5;213:1 referring (1) 36:11 recommendations (6) refers (2) 35:16,24 208:23;258:7;282:24; refillable (1) 7:1 refining (1) 54:13 reflect (1) 56:8 reflected (3) 88:24:151:6.6 reflecting (2) 23:24;290:6 reflects (2) 128:19:142:18:161:1: 56:7;57:1 reformulating (1) 172:10 refrain (2) 142:20;174:2 refreshing (1) 220:11 refused (2) 299:1;300:23 regarding (3) 146:20;161:20; 178:19 regardless (1) 49:2 regards (1) 138:16 regenerate (1) 263:21 regenerative (5) 189:11;291:13; 292:5,6,7 region (26) 7:13;18:11;78:2; 95:13.14.15.19.20: 98:22;100:6;101:25; 103:17;133:1;135:24;

137:13,18:138:14,16; 139:19,23;140:1; 141:25:160:18; 205:17:210:9:214:17 regional (11) 95:17:100:12; 103:3;107:5;121:20; 138:21;195:16;241:2; 263:15;284:11; 299:25 regions (16) 18:9;71:4,5,6;97:4; 98:19;100:14;101:18; 117:1;132:23;137:17; 138:21;139:1;140:2, 5;214:15 Register (2) 27:18;45:4 registration (1) 142:17 registry (3) 46:7;247:10;248:14 regs (3) 84:18,19,20 regular (6) 36:5,9;38:7;107:6; 133:24;187:22 regularly (2) 33:5;91:24 regulate (1) 12:14 regulating (1) 257:24 regulation (8) 36:12;148:21; 159:25;211:17; 222:18,19;250:7; 279:13 regulations (13) 24:16:35:17.18; 36:23.24:38:5: 145:20:184:22; 211:10;258:24; 263:24;272:19;278:9 regulators (1) 225:24 regulatory (13) 12:13;62:13;63:10; 71:23;84:16,23; 111:4;220:20;224:2; 247:20;266:18; 270:19:298:13 reiterate (1) 280:10 rejected (1) 91:12 rejiggering (1) 49:9 related (9) 12:3;91:15;110:25; 129:23;194:15; 216:19:226:21; 248:25:249:4

- Vol. 3 April 29, 2024

relates (2) 77:4:79:24 relating (1) 79:9 relationship (5) 71:8;81:23;190:9; 191:16.17 relationships (15) 13:22;100:10,14, 25;101:5,10;103:24, 25;104:5;110:8; 113:10;114:9;119:5; 130:19:204:6 relative (3) 103:21;174:25; 252:4 relatively (2) 172:4;228:23 release (1) 282:4 released (4) 10:23;21:24;34:1; 282:6 releases (1) 273:13 relevance (1) 246:18 relevant (4) 161:6;246:9;287:2; 292:15 reliable (1) 189:15 reliance (2) 231:15.15 reliant (1) 231:5 relied (1) 265:22 relief (2) 196:10:295:17 Relieving (1) 297:16 rely (2) 156:4;193:25 remain (3) 152:14;196:9;238:2 remainder (1) 142:9 remaining (1) 259:8 remains (2) 112:12:152:11 remarkable (2) 31:13;229:19 **REMARKS (6)** 8:24;9:8;23:23; 28:22,23;142:21 Remember (14) 9:23;24:2,7;37:23; 41:24:46:23:49:25: 66:19;94:15;132:1; 143:8;249:22;271:21; 297:1

Min-U-Script®

Burke Court Reporting & Transcription (973) 692-0660 (42) real-time - Remember

remind (1) 176:17:206:18 17,24;254:11;258:7; restaurant (1) 84:25 representing (5) 276:17.19:277:1: 209:4 revamp (1) 44:3;144:1;220:22; reminded (1) 279:3 restore (5) 44:1269:6.16 residues (3) 120:25:130:22: revealed (1) reproduce (1) 225:10;229:25; reminder (3) 131:8,15:263:21 96:7;142:13;188:25 231:13 264:18 restricting (1) revenue (1) resin (1) reminders (1) request (4) 172:7 50:24:96:5:243:4; review (16) 142:11 156:22 restriction (2) remotely (1) 277:2 resist (2) 154:24;169:4 19:5 requested (1) 141:17:172:12 restrictions (1) 279:6 resolution (3) 154:24 remove (4) 201:20;203:7; 160:9;180:22; requesting (1) restrooms (1) 259:7:274:1 144:3 254:10 6:22 removed (4) requests (4) resolve (1) result (6) 11:20:90:18; 6:24;50:20;57:25; 165:13 103:6;137:3;152:3; reviewed (4) 127:11;164:20 92:23 153:20;244:10;295:9 resounding (1) renewable (1) require (11) 249:3 resulted (1) 46:22;64:18;65:9; resource (18) 190:12 **Reviewing (3)** 8:3 12:11,14;13:9;15:8, resulting (2) renewal (1) 81:9;82:16;147:4; 249:18 151:13;201:11;255:9; 9,12,18;16:4;20:2,7; 269:21,24 revisions (4) 277:2:296:9 27:23;70:13:94:11; results (14) Repair (4) required (13) 118:13;130:21,22; 113:25;114:12;125:6; 34:3:110:16.19: 131:8 79:19,20;80:10,16; 134:19;197:14 154:9;162:13;184:16: revisit (1) repeat (1) 147:6;243:17;256:17; **Resources (27)** 207:13:226:13.17.19: 91:11 257:3;267:11;279:20, 8:14;13:8,10;14:22; 229:8;232:8;276:21; revocation (1) 23;293:8;299:9 15:1;20:12;102:24, repeated (1) 281:1 296:8 requirement (9) 24;103:1;105:4,10, resume (1) revolve (1) repetition (1) 17:4;146:4.7; 18;106:2,18;108:14, 142:4 40:4 151:25;244:16; 16;109:1;113:21; retail (12) rewarding (1) replace (1) 257:23;277:1;282:24; 114:3;119:5;120:6; 51:10:64:3.11.20; 177:16 283:1 125:6:135:6.18; 65:9,16,19:70:5,7; Reves (1) replaced (1) requirements (9) 163:25:164:1.2 73:3:210:25:250:2 208:12 79:22:91:22; respect (3) retailer (10) Rhodes (10) replacements (1) 136:24;144:16; 217:20;274:13; 21:22:27:22:30:15: 179:1 147:17;155:6;199:9; 281:12 38:14:41:15:42:17; 222:11;257:14 respectful (1) 45:22;149:25;208:14; report (23) 23:14,15,21:33:10, 243:24 requires (5) 24:25 146:8;162:1;164:8; respectfully (1) retailers (10) **Rice** (7) 11,25;34:3;42:5; 189:21;292:12 30:23;34:21,22; 101:12;161:22; 271:9 223:17;225:6;254:19; requiring (8) respond (1) 35:5:38:13:70:8; 277:10;278:13;280:5; 45:14;144:13; 128:24 150:3:210:24:211:4: 282:4,5,15:285:9,17, 147:9,13;160:3; responded (1) 220:24 rid (5) retention (1) 18,20 223:19;256:14; 190:10 reported (2) 283:20 respondents (5) 140:7 research (22) 33:2,8,18;34:4,10 63:14;145:10 retested (1) right (121) 13:13;20:20;21:12; reporter (1) **Responding** (3) 151:22 208:6 32:10;174:23;186:9; 67:16;244:19; retired (1) 20:19 reporting (2) 255:8,25;276:6,16; 256:11 100:3;299:19 277:21;280:1,14,14, response (4) retirement (2) reports (9) 17,19,25;281:6,7; 6:24;229:10;249:2; 263:17,18 7:10;32:23;33:7,19; 285:7;295:16.20 282:16 retreat (1) 160:22;176:9,12; reserved (1) responses (1) 113:12 225:5;229:5 267:2 50:22 retreatment (1) reside (2) responsibilities (1) 61:9,13;62:11,18; represent (3) 269:22 24:18;186:12;222:4 22:6,9 297:3 return (2) resident (1) responsibility (6) 24:17;126:20 representation (1) 21:5 44:2,6;237:15; returning (1) 88:10 residue (20) 270:23;295:5,10 representative (5) 28:13 70:5,6;204:22; 76:11;127:1; responsible (6) returns (1) 214:17:282:11 162:10;173:19; 7:24:33:21:48:7.24: 180:14 95:4;96:14;101:24; representatives (2) 184:14;224:19; 76:21:77:11 reusable (1) rest (2) 70:5:298:22 226:14,18;227:10; 144:13 represented (2) 229:20;232:19;233:5, 56:23;58:24 reuse (1)

- Vol. 3 April 29, 2024

264:18

279:3

93:2

268:15

271:24

243:14,15

239:18

26:4

89:13

64:13

27:25

259:5

143:18.19.21:

154:11;155:20;

157:12;160:11

206:22;213:22;

159:6;225:22;

242:10,11,12

7:1,1;11:10;12:9;

31:4,7,7,7;37:13;

17:5,21;23:19;26:20;

38:15;40:25;41:9,24;

42:9,13;43:5,11,23;

54:9,10,23,25;55:21;

63:7;65:21,22,24,24;

66:22;67:16;69:25;

71:23;73:11;75:7,8,

19;84:19;85:1,14;

87:2:89:10:93:16:

18;79:3,17,23;80:2,3,

112:7;113:18;115:11,

16,24;119:17;123:8;

48:17:49:16:50:3;

56:7,17,19;57:12;

224:13

220:16,18,19;223:25;

146:19;149:21,24;

44:24;46:4;47:1;

71:21:73:9:88:1;

154:14;162:1,7;

249:18;254:24;

154:13;161:12;

68:1;161:23;248:6

161:21,22;170:3;

170:5,11,13:245:22;

Burke Court Reporting & Transcription (973) 692-0660

- Vol. 3 April 29, 2024

Spring 2024 Meeting		F		April 29, 2024
125:21;126:21;132:7;	roadblocks (1)	193:7	142:2;171:16;181:9;	40:12
141:20;151:20;	186:18	roots (2)	186:21;189:18;	40.12 Saudi (1)
· · · ·		221:19;267:1		
153:21;156:19,25;	roadmap (1) 279:4		197:18;220:9;224:20; 231:23;299:15	21:5 save (1)
158:18;166:11,13;	Robert (1)	rotary (1)	runs (2)	44:17
167:10;171:5;172:13,	8:21	135:10 rotations (1)		
18,25;173:5;175:12,			17:14;95:18	saving (1) 292:8
18;188:20,22;194:13;	Robin (1)	111:2	rural (1)	
195:1;214:24;216:15;	118:13	rough (1)	259:19	savings (1)
217:1,13;218:22;	robust (6)	24:4	Russia (1)	198:9
224:1;226:18;233:17,	44:10;98:18;254:5;	roughly (1)	21:6	savvy (1)
19;237:10;248:10;	275:17;284:21;	102:6	rye (1)	19:4
256:2;260:1;264:21;	288:17	round (7)	241:13	saw (9)
271:18;272:3;276:11;	rock (4)	18:19;29:11;70:18;	S	11:9;17:19;40:21;
284:24;292:15;	118:1;206:6,10;	96:16;190:6;231:8;	3	41:18;42:11;182:9;
294:23;295:24;	234:17	261:2		193:15;203:4;298:2
296:23;299:15;301:2,	rocket (1)	round-robin (1)	Sacramento (1)	saying (29)
18	264:20	154:2	250:15	11:9;26:3;34:12;
rightly (1)	rockstar (1)	roundtable (1)	safe (4)	38:3;40:8,10,15;
222:8	24:8	102:9	12:17;270:8,19;	41:11;53:25;61:7,21;
rights (7)	Rodale (7)	route (2)	273:6	91:24;96:22;174:19,
88:1,12;207:9;	109:9,12;110:7;	151:12;284:22	safer (2)	20;210:23;214:18;
258:25;259:13;	188:1;189:4,10;	routine (1)	227:23;235:6	218:25;220:1;228:18;
292:14;293:16	191:10	296:19	safety (3)	231:20;234:3;242:11;
rigorous (2)	role (22)	row (3)	13:12;202:2;270:17	245:17,17;251:16,19,
77:17;145:16	8:12;11:15;12:11;	17:17;22:19;257:20	Sal (7)	24;300:15
ringing (1)	18:6,7,21;28:7;76:10;	rowing (1)	143:19;160:13,15,	scaffolding (1)
9:2	78:10;115:1;119:25;	25:23	16;163:3,6,16	273:10
risk (34)	150:6,6;165:15;	Roz (9)	sales (13)	scale (4)
61:8,10;72:7;85:16;	201:17;223:22;	99:11;104:7,10;	11:2;21:2;39:7;	122:9;274:21;
90:15;156:9;162:15;	237:12;243:25;	108:18;133:2;139:22;	67:7;97:1;169:5;	293:4;294:11
189:14;195:14;	285:21;286:25;292:3;	191:11,20;203:18	172:7;176:1;184:5;	scales (1)
200:25;201:3;224:21;	295:5	rubber (1)	282:11,12,18,19	293:4
225:11,13,13,14,17,	roles (5)	170:6	same (31)	scary (1)
22,23;227:21;228:7,	8:1;19:3;31:12;	rule (27)	12:17;25:6;33:7;	229:11
25;229:21;230:14,15;	74:24;276:5	37:2,22;47:5,11,23;	39:19;41:4;60:2;	scattered (1)
234:9,20;236:16,21,	roll (4)	49:4;50:14,15;51:7;	66:23;69:18;77:12;	203:10
22;255:17;279:19,23;	116:13;136:6,9;	52:1;58:11;62:14;	81:3;84:7;112:12;	scavenger (1)
280:4	139:14	65:9,13,15,16,17;	122:24;146:23;	172:21
risk-based (2)	rolled (2)	81:9;92:18,25;	148:14;151:18;	scenarios (1)
66:12;200:19	133:18;167:20	148:19;211:20;217:4;	155:15;164:13,16;	67:17
riskiest (1)	rolling (2)	224:20;227:11;	177:18;180:8;209:6;	scenes (1)
229:15	138:1,17	256:21;265:2	239:16;243:10;252:5;	207:23
risks (11)	rollout (6)	rulemaking (10)	258:4;289:5;296:4;	schedule (3)
144:8;162:19;	138:22;147:6;	26:12,23;27:11,14;	301:23,24,24	93:5;143:2;301:13
215:16;224:23;225:2,	201:19,21;203:10;	143:23;145:19;	sample (4)	scheduled (2)
8;227:16;229:25;	254:5	206:14;207:8;249:8;	225:13,13;229:14,	43:14;251:25
230:19;232:20;	Roman (1)	271:10	15	scheme (1)
273:15	264:17	rulemakings (1)	samples (5)	159:21
rival (1)	Romania (1)	226:6	78:4;225:17;229:7,	schemes (2)
173:10	21:6	rules (19)	11;232:8	81:17,18
River (3)	Romanski (6)	25:19,22;26:16,16,	sampling (7)	schemes' (1)
8:19;98:2;258:21	7:5,7,22,24;8:18,25	17,24;27:4,8;32:15;	9:16;78:11;162:14;	69:4
RMA (9)	room (27)	60:17;61:7;76:25;	226:14,18;232:12;	School (3)
72:7,10,12;161:5;	6:12;9:13;18:25;	77:9;85:10;92:22;	279:3	8:21;77:16;126:17
277:9,11;278:13;	26:15;33:13,13;	93:1;159:9;206:17;	San (2)	science (5)
279:20;280:5	38:10;39:15;44:4;	258:24	144:22;148:19	8:19;228:2;234:24;
RNA (1)	70:16;72:19;84:16;	ruminants (1)	Santa (1)	245:22;277:20
183:24	96:7;100:13;114:20;	296:7	276:9	science-based (1)
road (4)	141:22;143:4,12;	run (6)	satellite (1)	270:7
12:9;170:6;233:10;	187:6,12;213:9;	6:17;25:10;37:3;	145:9	scientific (1)
268:4	214:25;219:4;228:11;	42:5;178:14;233:25	satisfy (1)	228:4
roadblock (1)	231:6;266:20;301:21	running (13)	198:17	scientist (2)
184:17	root (1)	18:13;39:7;93:5;	satisfying (1)	19:24;264:23

Min-U-Script®

- Vol. 3 April 29, 2024

	Spring 2024 Meeting				April 29, 2024
$\begin{array}{llllllllllllllllllllllllllllllllllll$	scope (2)	265.8	253.7 14	67.18.79.25.83.17.	39.7.101.17.200.15
$\begin{array}{llllllllllllllllllllllllllllllllllll$					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				· · · · · · · · · · · · · · · · · · ·	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
scouling (1)secondary (2) $62:10;68:4;11;74:2;$ sentiments (1) $14:2:0$ $49:19$ $24:12;28:6:13$ $102:10;111:12;$ $151:17$ $shalt$ (1) $49:19$ $24:12;28:6:13$ $13:62:1;47:10;148:3;$ $31:16;89:20;$ $shape$ (2) $47:19$ $24:12;28:6:13$ $13:62:1;47:10;148:3;$ $31:16;89:20;$ $shape$ (2) $14:55$ $29:5;39:14$ $16:69:21:13:12:10;$ $series$ (1) $shape$ (2) $14:41:2:146:10;$ $7:5;7:22:24:8:12:18;$ $27:19:28:2$ $39:17:138:13;$ $10:1:11:16:21:14:9;$ $16:11:2:16:20:20:37:10;$ $22:61:22:17:17;$ $serios(3)$ $9:25:99:51:08:23;$ $10:8:1$ $20:20:20:3:20:20;$ $22:61:22:17:17;$ $serios(3)$ $9:25:99:51:08:23;$ $10:8:1$ $20:20:20:3:20:10;$ $22:61:22:17:17;$ $serious(2)$ $9:25:99:51:08:23;$ $10:8:1$ $20:20:20:3:27:6:22$ $26:1:58:8$ $9:02:5:99:51:08:23;$ $19:9:6:124:9:125:4;$ $14:2:4$ $20:72:92:18:30:4;$ $6:23:24$ $8:18:19:23:20:02;$ $19:22:1:13:17:136;$ $sereening(1)$ $27:8:20:72:91:8:30:4;$ $6:23:24$ $18:18:19:23:20:52;$ $22:3:23:17:136;$ $sereening(1)$ $21:13:4:5:16:61;$ $selection(2)$ $22:7:30:8:110:7;$ $19:18:20:2:24;$ $serve(1)$ $6:15:18:23;$ $6:15:18:25:$ $13:6:1:18:25:11:82:5;$ $23:24:23:20:55;$ $22:6:23:22:7:22:24:22:24;$ $5:5:10$ $sector(10)$ $5:5:118:25:$ $11:1:9:6:8:20:55;$ $22:6:23:27:22:24:22:24:22:24:22:24:22:24:22:24:22:24:22:24:22:24:22:24:22:24:22:24:22:24:22:24:22:24:22:24:22:24:22:24:22:24:22:2$					
$\begin{array}{llllllllllllllllllllllllllllllllllll$					
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$					
$\begin{array}{llllllllllllllllllllllllllllllllllll$	scrambling (1)	Secondly (2)		separate (4)	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	49:19	240:12;286:13	136:21;147:10;148:3;	31:16;89:20;	shape (2)
$\begin{array}{llllllllllllllllllllllllllllllllllll$	scrap (1)	seconds (2)	164:11,21;165:1;	155:23;165:2	36:24;147:7
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{llllllllllllllllllllllllllllllllllll$					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
screen (4) $226:12;241:20;$ $239:20;260:3;276:22$ $248:23;266:15,17;$ $248:23;266:15,17;$ $267:69;276:7;$ $6:20$ $266:15;8:8$ $90:25:99:5108:23;$ $199:61:124:9:125:4;$ $199:61:124:9:125:4;$ $199:61:124:91:125:4;$ $199:61:124:91:125:4;$ $199:61:124:91:125:4;$ $199:61:124:91:125:4;$ $199:61:124:91:125:4;$ $199:61:124:91:125:4;$ $199:61:124:91:125:4;$ $199:61:124:91:125:4;$ $199:61:124:91:125:4;$ $199:61:124:91:125:4;$ $199:61:124:91:125:4;$ $199:61:124:91:125:4;$ $199:61:124:91:125:4;$ $199:61:124:91:125:4;$ $199:18:120:12:4;$ $199:18:120:12:4;$ $199:18:120:12:2;$ $190:14:12:91:125;$ $191:18:20:12:4;$ $191:18:20:12:4;$ $239:243:7;279:5;$ $265:790:25:99:5108:23;90:25:99:5108:12;191:18:125:118:12:5;191:18:20:12:2;266:13:204:5;284:5;77:19:14:51:232:7;205:790:21:94:15;114:206:14:29:12;290:22,207:6;283:13:290:7;93:24;8elf-identified (1)191:18:25;195:13,17;201:10;112:15;112:15;109:10:10:10;14;114:29:125;114:270:25;114:270:25;112:15;109:10;10:10;14;114:29:125;112:15;109:10;10:10;14;112:15;109:10;10:10;14;112:15;16:120:13;109:10;10:10;14;112:15;16:120:13;109:10;10:10;14;112:119:4:135:6;9:105:13;109:10;10:10;14;112:119:4:135:6;9:105:13;109:10;10:10;14;112:119:4:135:6;9:105:13;109:10;20:14;112:15;16:120:13;109:10;10:10;14;110:20:14;12:19;112:15;16:120:13;109:12;20:120;22;25:15;16;14:11:15;109:10;11:14:15;109:10;12:14;12:15;109:10;14;14;14;14;14;14;14;14;14;14;14;14;14;$					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
screening (1) $278:20;279:18;300:4$ secretary's (3)selected (2)serve (14) $162:13;184:11;$ $162:13;184:11;$ $148:24$ secretary's (3) $69:23,24$ $23:14,15;166:181:16;19:23;20:2,7;157:2318:18;19:23;20:2,7;191:18:207:2,24;18:18;19:23;20:2,7;191:18:207:2,24;screwed (1)65:15;243:3sector (10)87:15;291:25selective (1)11,14;206:11,24233:9;243:7;279:5;284:5scrutinized (1)11;18;223:27,77:19;145:12;232:7,sectors (4)seletere (1)11,18;282:1,19self-dentified (1)serves (3)81:5;118:25;124:17;206:14;221:2124:17;206:14;221:2130:3shared (9)scrutiny (2)106:13;204:5;283:13;290:733:21;35:20,21,23;195:13,17;201:10,112:158eif-organizing (1)112:1571:675:9;78:7;299:25secure (5)secure (5)self-organizing (1)112:1571:675:9;78:7;299:2599:2593:2446:7;196:7;241:9,5259:6;62:63:8106:2;135:16;140:234:15:65:9;105:13;106:2;135:16;140:234:15:65:9;105:13;106:2;135:16;140:2109:5;12;111:15;221:20;222:2547:18296:18seative (1)299:22109:5;12;111:15;221:0;222:2547:18224:17;253:24224:14;206:25;83:1983:1985:2;214:21204:14;206:25;83:19searchable (1)223:16,17,18;245:8;266:8256:13,14:257:5;18,259:55252:82:21:3,45,8,10,259:55252:82:13,45,8,10,8ced (91)8:52;214:21224:17;253:24210:15;207:20;221:20;222:2583:19searchable (1)11,12,13,14,14,15;22$, , , ,
$\begin{array}{llllllllllllllllllllllllllllllllllll$					
screenings (1) $23:14,15;166:1$ selection (2) $22:7;30:8;110:7;$ $191:18;207:2,24;$ $157:23$ section (2) $87:15;291:25$ $136:16;145:3;205:5,$ $22:26:23;227:22;228;$ screwed (1) $65:15;243:3$ selective (1) $11,14;206:11,24$ $233:9;243:7;279:5;$ $55:10$ sector (10) $60:13$ served (5) $282:21$ scrutinized (1) $21:13;45:20;67:5;$ self-employed (1) $8:15;118:25;$ sharec opper's (1) $284:5$ $77:19;145:12;232:7,$ $205:7$ $205:7$ $93:24$ serves (3)shared (9) $184:25$ sectors (4) $156:22$ $61:11;96:8;220:25$ $90:21;94:15;$ $90:21;94:15;$ $200:22;207:6$ $283:13;290:7$ $93:24$ $8:6;10:23;63:14;$ $174:25;279:9;29:55$ $33:21;35:20,21,23;$ $195:13,17;201:10,$ $112:15$ $109:10;110:10,14;$ $share(10)$ $39:10;41:2:91:25;$ $14:270:25$ sell (8) $10:3;255:6;263:8;$ $106:2;135:16;140;2$ $222:4;239:10$ $109:4;260:14$ $10,13;255:6;256:24;$ $service (9)$ $170:15;207:20;$ $222:4;239:10$ $109:4;260:14$ $10,13;255:6;256:24;$ $service (9)$ $170:15;207:20;$ $seached (1)$ $sedative (1)$ $299:22$ $109:5,12;111:15;$ $221:20;222:25$ $47:18$ $296:18$ $sellig(2)$ $112:17;162:19;$ $sharde(1)$ $searchable (1)$ $24:6;17;255:4,10,10,$ $send (8)$ $23:10,12:24:17;$ $sheed (2)$ $searchable (1)$ $11,12,13,14,14,15;$ $38:16;56:13;99:21;$ $39:21,21:95:24;$ $118:$					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
screwed (1) $65:15;243:3$ sector (10)selective (1) $11,14;206:11,24$ served (5) $233:9;243:7;279:5;$ $282:21$ $55:10$ $sector (10)$ $60:13$ $served (5)$ $282:21$ $script (1)$ $21:13;45:20;67:5;$ $284:5$ $self-employed (1)$ $8:15;118:25;$ $847:employed (1)$ $8:15;118:25;$ $90:21;94:15;$ $90:21;94:15;$ $scrutinized (1)$ $11,18;282:1,19$ $sectors (4)$ $156:22$ $93:24$ $6:10:23;63:14;$ $174:25;279:9:292:55;$ $90:21;94:15;$ $99:22;99:25;$ $seal (12)$ $secure (5)$ $secure (5)$ $self$ -organizing (1) $11:2:15$ $71:65:79:78:7;$ $299:25;$ $299:25;$ $33:21;35:20,21;23;$ $19:5:13,17;201:10,$ $11:2:15$ $109:10:10:10,14;$ $13:255:6;256:24;$ $259:6;263:8$ $106:2;135:16;140:2;$ $222:4;239:10$ $109:4;260:14$ $10,13;255:6;256:24;$ $299:22$ $109:5:12;111:15;$ $21:0;222:25;$ $sealed (1)$ $seed (91)$ $8:22:14:21$ $204:14;206:25;$ $8:198:16:10;10:12:17;162:19;8:10;12:11:15;10:2:10;12:22:25;8:19;12:11:15;search (2)seed (91)11,2:13;14;24:8;223:16;17;25:4;10;10;10:2:10;12:12;12:18;167:6;8:10;10;12:12:18;167:6;searchable (1)11,2:13$					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$,		
$\begin{array}{llllllllllllllllllllllllllllllllllll$,			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{llllllllllllllllllllllllllllllllllll$					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{llllllllllllllllllllllllllllllllllll$					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	scrutiny (2)		self-interest (1)		106:12;119:4;135:24;
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					174:25;279:9;293:5;
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		secure (5)	self-organizing (1)	71:6;75:9;78:7;	299:25
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			112:15		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
sealed (1)sedative (1) $299:22$ $109:5,12;111:15;$ $221:20;222:25$ $47:18$ $296:18$ $selling (2)$ $112:17;162:19;$ $sharpied (1)$ $search (2)$ $seed (91)$ $85:2;214:21$ $204:14;206:25;$ $83:19$ $65:17;162:25$ $19:13;20:14;$ $semi-crystalline (1)$ $224:17;253:24$ $shedding (1)$ $searchable (1)$ $223:16,17,18;245:8;$ $275:16$ $serving (10)$ $167:6$ $161:5$ $246:17;255:4,10,10,$ $send (8)$ $23:10,12;24:17;$ $sheep (2)$ $searching (1)$ $11,12,13,14,14,15;$ $38:16;56:13;99:21;$ $89:21,21;95:24;$ $118:20;121:18$ $206:8$ $256:13,14;257:5,18,$ $133:3;195:19;218:7,$ $197:5;224:3;276:7;$ $sheet (5)$ $Seashore (1)$ $18,19,21;281:21,24,$ $8;256:15$ $283:9$ $107:22;133:3,3;$ $259:5$ $25;282:1,3,4,5,8,10,$ $sending (7)$ $sessions (2)$ $135:21;136:8$ $season (4)$ $11,13,15,17,20,24,25;$ $40:3;47:19;49:13;$ $160:25;221:16$ $sheets (1)$ $102:10;118:19;$ $283:1,3,5,7,11,14,19,$ $50:4;54:23;81:4;$ $set (15)$ $102:25$ $202:3;287:18$ $20,21;284:14,15,20,$ $232:8$ $31:13;88:7;94:8;$ $shelf (2)$ $seasoned (1)$ $21,25;285:1,5,8,16,$ $sends (1)$ $110:9;145:11;155:1;$ $37:13,20$					
$\begin{array}{llllllllllllllllllllllllllllllllllll$					
search (2) $65:17;162:25$ seed (91) $85:2;214:21$ $204:14;206:25;$ $224:17;253:2483:19searchable (1)161:5223:16,17,18;245:8;246:17;255:4,10,10,semi-crystalline (1)275:16224:17;253:24shedding (1)167:6searching (1)206:811,12,13,14,14,15;206:8246:17;255:4,10,10,11,12,13,14,14,15;206:8send (8)256:13,14;257:5,18,18,19,21;281:21,24,259:583:19Seashore (1)259:518,19,21;281:21,24,25;282:1,3,4,5,8,10,102:10;118:19;202:3;287:1811,13,15,17,20,24,25;20,21;284:14,15,20,21,25;285:1,5,8,16,85:2;214:21202:3;287:1820,21;284:14,15,20,21,25;285:1,5,8,16,85:2;214:21202:3;287:1820,21;284:14,15,20,21,25;285:1,5,8,16,85:2;214:21202:3;287:1820,21;284:14,15,20,21,25;285:1,5,8,16,85:2;214:21202:3;287:1820,21;284:14,15,20,21,25;285:1,5,8,16,85:2;214:21202:3;287:1820,21;284:14,15,20,21,25;285:1,5,8,16,85:2;214:21232:8204:14;206:25;21,25;285:1,5,8,16,85:2;214:2137:13,20$					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
searchable (1)223:16,17,18;245:8;275:16serving (10)167:6161:5246:17;255:4,10,10,send (8)23:10,12;24:17;sheep (2)searching (1)11,12,13,14,14,15;38:16;56:13;99:21;89:21,21;95:24;118:20;121:18206:8256:13,14;257:5,18,133:3;195:19;218:7,197:5;224:3;276:7;sheet (5)Seashore (1)18,19,21;281:21,24,8;256:15283:9107:22;133:3,3;259:525;282:1,3,4,5,8,10,sending (7)sessions (2)135:21;136:8season (4)11,13,15,17,20,24,25;40:3;47:19;49:13;160:25;221:16sheets (1)102:10;118:19;283:1,3,5,7,11,14,19,50:4;54:23;81:4;set (15)102:25202:3;287:1820,21;284:14,15,20,232:831:13;88:7;94:8;shelf (2)seasoned (1)21,25;285:1,5,8,16,sends (1)110:9;145:11;155:1;37:13,20					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
searching (1)11,12,13,14,14,15;38:16;56:13;99:21;89:21,21;95:24;118:20;121:18206:8256:13,14;257:5,18,133:3;195:19;218:7,197:5;224:3;276:7;sheet (5)Seashore (1)18,19,21;281:21,24,8;256:15283:9107:22;133:3,3;259:525;282:1,3,4,5,8,10,sending (7)sessions (2)135:21;136:8season (4)11,13,15,17,20,24,25;40:3;47:19;49:13;160:25;221:16sheets (1)102:10;118:19;283:1,3,5,7,11,14,19,50:4;54:23;81:4;set (15)102:25202:3;287:1820,21;284:14,15,20,232:831:13;88:7;94:8;shelf (2)seasoned (1)21,25;285:1,5,8,16,sends (1)110:9;145:11;155:1;37:13,20					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
Seashore (1)18,19,21;281:21,24,8;256:15283:9107:22;133:3,3;259:525;282:1,3,4,5,8,10,sending (7)sessions (2)135:21;136:8season (4)11,13,15,17,20,24,25;40:3;47:19;49:13;160:25;221:16sheets (1)102:10;118:19;283:1,3,5,7,11,14,19,50:4;54:23;81:4;102:2531:13;88:7;94:8;shelf (2)202:3;287:1820,21;284:14,15,20,232:831:13;88:7;94:8;shelf (2)37:13,20					
259:525;282:1,3,4,5,8,10, 11,13,15,17,20,24,25;sending (7)sessions (2)135:21;136:8season (4)11,13,15,17,20,24,25;40:3;47:19;49:13;160:25;221:16sheets (1)102:10;118:19;283:1,3,5,7,11,14,19,50:4;54:23;81:4;160:25;221:16sheets (1)202:3;287:1820,21;284:14,15,20,232:831:13;88:7;94:8;shelf (2)seasoned (1)21,25;285:1,5,8,16,sends (1)110:9;145:11;155:1;37:13,20					
season (4)11,13,15,17,20,24,25;40:3;47:19;49:13;160:25;221:16sheets (1)102:10;118:19;283:1,3,5,7,11,14,19,50:4;54:23;81:4;set (15)102:25202:3;287:1820,21;284:14,15,20,232:831:13;88:7;94:8;shelf (2)seasoned (1)21,25;285:1,5,8,16,sends (1)110:9;145:11;155:1;37:13,20					
102:10;118:19; 202:3;287:18283:1,3,5,7,11,14,19, 20,21;284:14,15,20, 21,25;285:1,5,8,16,50:4;54:23;81:4; 232:8set (15) 31:13;88:7;94:8; 110:9;145:11;155:1;102:25 shelf (2) 37:13,20					
202:3;287:1820,21;284:14,15,20, 21,25;285:1,5,8,16,232:831:13;88:7;94:8; 110:9;145:11;155:1;shelf (2) 37:13,20					
seasoned (1) 21,25;285:1,5,8,16, sends (1) 110:9;145:11;155:1; 37:13,20					
	· · · · · · · · · · · · · · · · · · ·				
seat (17) 17,20,21,24;287:2,3, senior (5) 204:25;206:4;230:18; 10:8;35:16;288:5					
6:7;19:8,11,24; 7,10,18,19,20,24; 19:11,18;22:8; 275:17;279:4;286:18 shepherding (1)					
20:3,7,11,18;21:1,10, 288:2,3,5,13,17,20; 180:19;220:20 sets (2) 193:11				sets (2)	193:11
22;22:7;23:1,11; 289:1,2,9,11,14,19; sense (8) 222:7;244:18 shift (2)				·	
27:21;31:21;92:16 290:6,14,18;291:24; 32:25;55:23;78:13; setting (1) 57:10;272:23					
seats (4) 292:1 83:1;94:7;236:5; 248:16 shifting (2)					
19:17;27:19;142:8; seedling (1) 266:8;274:2 settlement (1) 273:20;274:19					
238:20 253:7 sensible (12) 58:18 shifts (1)					. ,
sec (1) seedlings (2) 51:6,6;55:22;64:14; seven (3) 26:2	sec (1)	seedlings (2)	51:6,6;55:22;64:14;	seven (3)	26:2

Min-U-Script®

28:8

78:7

ship (6) 57:6:81:10:84:10: 90:24;195:22;199:8 shipment (1) 58:4 shipments (1) 254:8 ships (2) 84:8;254:6 shirt (1) 188:15 shoo (1) 182:11 shoot (2) sign (2) 86:22;165:23 shopper (1) 175:14 shoppers (1) 34:10 short (9) 12:1;57:17;98:16; 101:20:118:16: 132:19;152:20; 238:16;295:19 shortage (1) 260:22 shorten (1) 142:3 shout (3) 96:11:100:13:112:2 shout-out (3) 32:12.20:87:1 shouts (1) 24:10 show (16) 8:10;33:12;56:20; 60:4:95:18:151:8: 165:3;198:3;209:5; 210:18;227:11;233:4; 236:24;254:9;280:18; 287:16 showcase (1) 37:15 showed (4) 70:24;229:12; 282:6;295:16 showers (1) 119:9 showing (4) 141:22;166:14; 204:7;212:12 shown (2) 189:8:281:2 shows (8) 8:6;98:21;114:7; 134:2;145:9;159:12; 239:22;277:11 shuffle (1) 233:20 shuffling (1) 202:21 sic(2)sit (9) 129:20;166:20

side (18) 22;92:5;117:13; 21:3,8;46:17;47:3; 214:2;300:23 48:18:49:12,16; site (1) 129:13;158:19;159:3, 146:5 6;180:13,14;195:8; sites (1) 209:23;239:1;262:13; 149:15 296:15 sits (2) side-by-side (1) 114:18:126:21 280:6 sitting (11) sides (2) 57:6;77:2;92:16; 221:3;244:25 96:12,15,16;130:24; 132:20;250:1;288:5; sieve (1) 240:6 300:12 situation (3) 65:22;298:3 254:3;263:12;295:9 signal (3) situations (2) 92:14;250:10; 270:5;297:15 274:19 six (12) 22:14;59:25; signed (5) 24:5;71:20;102:3; 106:24;126:8;132:23; 133:21;142:16 133:20:136:6:138:20, significant (8) 21;177:21;231:7; 29:12;80:13,17; 296:7 102:19;155:3;182:23; six-month (2) 202:6;227:18 17:24;54:10 significantly (1) sixth (1) 225:22 22:6 signing (1) Size (3) 79:2;137:24;240:7 signs (2) sizes (4) 35:3:72:3 11:12:13:21:66:14: silage (2) 282:10 10:13:260:22 skeptic (1) similar (12) 96:17 15:4,18;106:15; sketchy (1) 113:5;199:7;203:4; 182:16 skilled (1) 209:18:258:3.3; 281:24 283:8,11;299:19 Similarly (1) skills (1) 100:18 296:10 simple (2) skimmed (1) 145:4;288:24 178:19 skin (2) simply (3) 63:13;221:10;237:1 70:8,9 simultaneous (1) skip (2) 205:24 113:18,18 simultaneously (1) skirting (1) 26:16 256:19 single (6) Skolaski (5) 36:24;67:11;76:20; 95:22;97:8,10,14, 80:1;97:4;289:18 15 single-family (1) slave (1) 126:6 131:6 sleep (1) single-use (7) 145:1;155:24; 171:21 159:4;241:23,23; slice (1) 242:9,10 217:21 sinks (1) slices (1) 212:10 10:5 sister (1) slide (22) 32:21;33:17;43:9; 45:19;69:15;94:1; 6:9;19:10,16;21:10, 98:14;101:14;113:19;

114:7:115:6:142:12, 12;143:7;176:16; 183:9,14,17,17,20; 184:3:189:1 slides (8) 31:24;45:1;97:10; 104:18;143:8;186:7; 189:1.2 slightly (4) 25:5;39:24;63:5; 237:11 slow (1) 24:14 slower (1) 207:8 slowly (3) 59:3;209:15;265:3 small (36) 13:20;20:22;22:19; 26:19;32:13;51:2,4,7; 63:16,17;64:10,19; 66:14,24;77:20; 83:17;84:7,8;85:6,8; 113:3;119:3;148:24; 162:18;195:16,21; 214:22,24;215:1,1; 252:10,19;253:1; 261:1;263:11;276:4 smaller (4) 253:4;267:25; 293:4:294:11 smart (6) 8:8:73:2:115:10,12: 124:10:137:9 smarter (1) 249:19 Smith (159) 7:8;18:15,24;22:1. 4,21,24;23:7,7,22; 38:23;40:6,19;41:6; 42:20;43:4;69:10; 76:3:78:20:83:12; 86:7;87:8;88:25; 90:19;92:18;93:21; 95:2,7;128:7;131:24; 135:20;137:4;139:16; 141:15,24;142:7; 145:24;146:17; 149:23;153:1;154:10; 155:17,19;157:10; 159:16:160:10,13; 163:3,16,18;165:20, 23;167:8;168:9; 170:18,20,23;173:2; 174:12;175:18;178:4, 17;181:4,25;182:25; 183:2;185:2,4;186:5; 187:5,13;188:17,19, 23;191:7;192:10; 194:8;196:20;197:22; 198:25;200:1,4; 202:19;203:11; 204:17;206:20;209:1; 177:2,8,16,19,23;

210:16;212:6;213:18, 21:216:8:217:18: 219:22;220:15;223:2; 224:12,14;226:11; 228:9;230:7,10; 231:22;233:11; 235:18;237:9;238:15, 20;241:8,10,17,19; 243:1,21;245:25; 246:2;248:22;250:19; 253:19,21;255:21,23; 257:7:258:9:260:7; 262:9;263:3,6;265:6; 266:14;268:25; 271:14;272:10;275:4, 25;277:25;278:19; 279:15;281:10,17; 283:25;284:3,6; 286:3,5;288:21; 289:24;290:16;291:7; 293:18;294:18,21; 297:7,19,21,23;300:9; 301:9.12 smooth (1) 26:11 snap (2) 10:11;11:5 soap (1) 39:15 social (5) 35:3,7:38:8:106:13: 238:11 socks (1) 130:25 **SOE (37)** 31:5,5,16;45:17; 48:7:49:14:50:25: 63:15;73:5,6;74:2; 78:12,22;79:2;80:16; 82:21:83:16:90:21, 24;91:4,5,7,15;92:9; 93:13:112:22:164:7; 165:11;196:10; 200:17;216:18,20,24; 222:10;247:12,17; 254:4 soft (1) 101:11 soil (14) 14:9;123:19; 161:14:189:14; 232:12,14;245:3,8; 263:21,21;264:4; 268:3;274:16;291:23 soil-based (2) 291:15;292:7 soils (3) 189:25;245:5;268:8 sold (4) 68:17:196:2; 237:24:268:11 soldier (9)

178:3,7;179:12;181:1 123:22:195:2 11:19:26:12:40:24; 10:153:6:157:14; 262:16 solid (5) sov-free (1) stabilize (1) 41:7:45:8:73:18: 191:21;203:1,7; 201:1:233:7; 93:22;94:25;117:22; 179:1 210:25 180:7specifics (3) 247:21:273:18:288:8 141:17;145:24; space (12)stabilized (1) 6:22;102:19; 183:19,22;243:6 201:11 solution (5) 155:19;165:23; 173:21;174:1; specified (1) stabilizers (1) 168:20;174:8;185:23, 106:14;108:6;134:22; 237:23;242:11; 23;187:5;188:12; 145:18;180:8;197:16; 274:4 275:11 296:20 197:7;198:25;219:24; 232:16:238:12; speed (5) stabilizing (1) 246:12;284:15 64:16,18;66:11; solutions (10) 230:8;238:4;247:23; 268:7 29:24;30:1;144:8, 248:9;250:20;261:12; spaces (2) 86:14:232:7 stable (6) 11;145:23;174:7; 278:2 100:17;292:24 speedy (1) 57:22;90:7;152:21; 237:3;270:1;296:21; 254:10 184:22,22;266:11 sort (27) span (1) 44:15;68:9;77:12, spelled (2) 297:5 225:14 stacked (1) solve (5) 20:87:21,21:97:1; Spanish-speaking (1) 168:21:170:16 39:8 125:5;157:1; 133:10,13;157:8; 210:6 spend (6) Staff (12) 184:16;215:16; 7:14;15:25;48:17; 8:16;28:25;97:21; 171:2;174:10;202:22; sparking (1) 206:18;209:6;212:22; 138:10;186:24;279:1 252:17 82:11 98:4,14;114:15; solved (1) 219:3;232:15;234:17; speak (25) spending (4) 115:2,10;138:11,11; 25:1,12;38:11; 28:19;205:19; 186:18 242:1;244:18;249:8, 168:13;283:10 solving (2) 11;266:1;267:14; 87:14;117:10;130:1; 215:6;216:6 stage (2) 85:25:125:13 279:2;297:13 131:22;133:7;134:23; 93:12:152:19 spent (7) 118:23:122:12: somebody (18) sorts (6) 165:17:178:20:182:2: stages (1) 6:9;11:9;14:5; 64:20;65:7;77:9; 196:25;198:7;200:7; 126:24;132:9;149:25; 27:415:20;32:4;59:11,15; 206:1;226:22;268:8 202:18:204:21:208:5: 227:10:274:1 stagnant (1) 71:9;91:23;92:6; 255:10 sphere (1) sound (15) 210:22;213:9;220:19; 51:5,6;55:22;64:14; 239:3;252:13;263:12; 70:12 stagnation (1) 159:24;175:8,15; 205:18;210:22; 67:18;79:25;83:16; 294:24 spinning (1) 282:8 235:12;256:12; 84:22;85:13;86:4; speaker (5) 153:3 stakeholder (3) 268:14 145:21;200:19; 7:5,21;143:18; spirit (1) 105:15;221:6; somebody's (1) 222:16:301:5.6 170:15:286:6 291:19 277:17 15:10 sounding (1) speakers (10) spoke (1) stakeholders (6) somehow (2) 118:25 115:25:128:10.11: 254:3 29:12:34:17: 26:23:237:1 sounds (11) 137:7.15.22:142:16. spoken (4) 106:19,20;222:9; someone (4) 69:10:74:15: 19:143:2:290:2 93:16;179:13; 249:2 speaker's (1) 124:5:236:4; 220:4;247:19 stalled (1) 135:23;148:15;153:8; 247:12:256:11 143:1 sponsored (1) 184:21 174:19;191:11; something's (2) 202:25;209:18; speaking (5) 39:5 stamps (1) 228:18:290:4 83:14:99:13: sportsman's (1) 148:4 92:14:166:10 sometimes (14) source (13) 107:25:185:19: 135:7 stance (1) 9:1:26:25:46:1: 106:12:179:3.23; 252:18 spot(2)251:22 54:24;62:15;148:25; 190:5;245:5,7;248:4, speaks (1) 241:4:282:17 stand (4) 150:15:157:23; 19,21;251:2;252:5; 7:7 spray (1) 37:19:100:22; 149:2 205:24;209:25;210:1; 254:13;274:3 special (2) 101:2;212:4 sources (5) 229:7;239:10;273:4 33:16;254:15 spread (1) standard (15) 88:5,16,20,21; Specialist (3) 95:11;99:16; somewhere (6) 223:7 41:19;57:6;65:18; 16:19;238:25;295:1 274:25 spreading (1) 107:19;136:24; 71:10;101:16;298:2 sourcing (4) specialty (5) 102:21 147:13;150:12,20; son (1) 112:23;181:9; 10:4,15;21:3;47:16; Spring (7) 153:14,24;189:16; 23:5 211:17;283:21 50:21 6:14;24:1;40:9; 257:16;259:25;264:1; song (1) South (7) species (1) 108:9;145:19;161:1; 270:17;296:1 119:20 22:15;118:11; 77:5 221:18 Standards (42) songs (1) 130:5;269:7;270:24. specific (13) Sprouts (1) 6:15,17;17:10,10, 24:9 25:300:25 37:21;66:16; 41:23 13;18:2;25:21;30:14; southeast (3) 150:25;157:24; square-foot (1) 31:12;43:18;72:25; Sonoma (2) 23:3;95:14;130:4 161:10;173:22; 179:13 259:5,12 84:18;95:11;97:16; Southern (1) 206:25;207:21,24; squeeze (1) Sonya (1) 145:15;146:9;150:15; 137:12 208:23;255:4;271:17; 151:19;153:9,16; 32:17 16:3 300:17 soon (3) soy (1) squishy (1) 154:21;155:4;160:3; 145:3;222:25; 121:23 specifically (21) 101:11 161:18;176:8;198:18; 266:23 sovbean (4) 32:10:65:19:98:9. stab (1) 207:10,11,20;222:24; sooner (1) 180:3;182:7,19,21 22;103:8;109:3,7; 133:16 239:9,18;240:2,3,8,9; 253:15 sovbeans (4) 113:10;114:7;133:8, stability (3) 244:21;245:1;271:11; 106:7:122:13: 12;138:13,17;147:8, 152:24;180:4; 292:10;293:15; sorry (29)

- Vol. 3 April 29, 2024

- Vol. 3 April 29, 2024

Spring 2024 Meeting		(1(0)2)		April 29, 2024
294:24	269:15;271:1	steps (5)	35:3;37:16;38:18;	strongest (2)
standing (3)	stated (1)	27:16;67:16;79:22;	39:22;41:20;42:1,2,8,	110:20,23
31:19;210:23;	280:24	120:25;171:20	19;149:25	strongly (3)
291:11	state-level (1)	stepwise (1)	stories (5)	29:18;85:19;87:19
standpoint (3)	75:8	240:24	10:1;11:17,21;97:3;	structure (2)
253:12,13;268:4	statement (3)	Stern (10)	225:5	74:24;283:11
stands (1)	98:12;148:25;	111:19,20,21;	storms (1)	structured (1)
252:15	280:24	281:19;286:6;291:10,	119:10	222:23
STAPLE (3)	States (60)	10;294:7,16,20	story (11)	structures (1)
125:23,24;128:21	10:18;11:25;12:6;	Steve (9)	14:10;42:23;97:5;	64:2
STAPLES (1)	13:1,2;15:4,17,17;	168:21;173:9;	99:23;129:20;157:4;	struggle (3)
125:22 Star (1)	30:5;47:25;48:6; 53:19;54:21;55:1,16;	238:17,21,23;243:3, 22;245:25;246:5	225:6;227:21;229:5; 267:6,7	179:24;202:5; 235:17
183:6	57:13;76:22,24;77:6,	Stewardship (2)	strategic (2)	struggled (2)
stars (3)	24;78:8;81:2,2,10;	108:20;123:14	112:14;213:12	195:12;198:15
118:1;206:6,10	98:5,11;100:6,21;	stick (3)	Strauss (15)	struggles (1)
start (31)	101:7,18;104:18;	235:1;284:5,22	246:3;253:22;	135:23
6:15;19:6,7;24:3;	106:6;112:24;134:23;	sticker (4)	258:10,12,12,13;	struggling (7)
43:14;45:8;47:2;	137:18;138:5;139:8;	145:5;148:1;274:8,	260:10,16;261:12,16,	15:10;74:16;
48:21;54:7;57:10;	147:8,14;160:1;	15	21;262:8,17;263:2,5	150:12;167:4;249:10;
68:4;87:5;107:22;	169:5;172:7;177:10;	stickers (3)	stream (2)	252:22;290:23
119:6;133:23;140:6,	179:22;190:24;191:1,	242:1;274:5,11	149:14;273:25	stuck (1)
22;142:11;143:9;	13;192:13;201:22;	sticking (2)	streaming (2)	54:2
145:19;166:11; 180:15;182:8;194:12;	204:1;211:18;218:24; 225:21;258:22;261:2;	192:2;301:21 stifling (1)	28:16;213:7 streams (1)	students (4) 105:3;107:25;
205:16;218:24;219:7;	263:20;264:7;266:15;	184:19	268:15	105.5,107.25, 108:2,10
230:4;233:2;247:9;	291:18;292:25	still (38)	street (2)	studied (1)
282:18	States' (1)	33:13;43:14;53:20;	132:23,24	273:8
started (24)	10:4	54:2,13;56:9,12,13;	strength (1)	studies (4)
40:10;44:16;45:24;	state's (2)	61:16;62:5;63:19;	207:5	127:1;152:6;
47:24;97:24;100:19;	11:13,14	64:15;67:2,22;82:12;	strengthen (3)	154:13;273:6
121:21;122:3,6,11,25;	statewide (1)	87:12;113:16;124:4;	81:24;104:13;	study (3)
132:5;136:23;142:8;	144:12	142:2;172:15,16;	113:10	28:3;115:2;152:17
154:9;156:2;171:16; 174:23;180:15;	stating (1) 251:3	174:22;175:9;190:21; 196:16;197:18;	strengthened (3) 13:22;45:15,16	stuff (16) 19:9;47:12,12;
194:21;258:16;	Statistics (2)	199:20;206:9;212:15;	strengthening (15)	48:19;54:23;64:21;
263:13;295:15,21	10:23;192:13	221:25;236:21;	25:21;36:12;44:23;	65:12;168:3;205:25;
starting (12)	stats (1)	245:12;247:8;263:17;	45:8;46:18,21;50:7;	233:16,19;242:21;
49:4;65:23;74:9;	169:12	271:6,24;290:22;	51:3;67:5;73:8;	245:10;267:25;268:1;
146:5;147:17;178:13;	status (2)	296:22	110:12;168:14;	279:3
201:24;236:17;	91:14;290:25	stillness (2)	211:12;216:19;287:7	stumbles (1)
252:10;261:3;266:1;	statute (1)	126:7;127:5	stressed (1)	28:18
270:16	38:6	Stone (2)	177:6	style (1)
starts (2) 41:19;57:9	Staved (1) 126:6	118:1;214:19 stop (9)	stresses (1) 290:3	170:14 subcommittee (7)
stat (1)	stay (8)	11:7;48:19;52:11;	strict (1)	7:17,18;20:8;22:8;
103:4	27:10,13;38:5;	62:19,22;145:13;	153:24	139:11;150:7;270:11
state (52)	143:10;202:9;246:6;	235:4;254:12;277:24	stricter (1)	subject (2)
7:24;8:2,14;9:6;	280:13;292:15	stopped (1)	155:6	282:13;283:9
10:2,17;11:8;12:2;	steady (1)	54:20	strictest (1)	subjective (1)
13:7,15;14:7;22:10;	26:23	stopping (3)	155:8	290:9
23:13;26:23;75:5,13;	steeped (1)	54:22;141:19;	strike (1)	submit (1)
103:8;106:4;107:19;	161:9	200:15	262:15	267:11
114:18,22;120:5,10;	step (21)	stop-sale (1)	strive (1)	submitted (4)
134:23;138:7;143:8; 160:15;161:14;	79:3;84:1;90:18; 91:22;131:10;135:14;	60:21 storage (2)	138:24 strong (13)	98:12;144:3; 171:22;269:18
163:25;164:2,3;	139:4;150:6;211:3;	120:11;129:2	50:13;87:22,23;	Subpart (1)
188:25;190:10,11,17;	213:10;236:8;239:10,	store (12)	110:25;111:4;134:17;	270:15
192:23;204:1;210:7;	20,21;242:19;243:23;	10:8;32:2;35:12;	193:18;200:11;	subsequently (1)
211:17;214:15;231:3;	248:10;250:7,8;	36:14;37:14,21;	207:11;216:11;	268:13
235:6;238:21;242:15;	252:18;256:3	39:25;41:18;126:15;	236:13;254:5;270:21	subset (1)
258:14;261:22;	stepped (1)	167:17;197:14;250:3	stronger (2)	252:9
266:23,24;267:2,22;	118:2	stores (10)	218:20;254:14	subsidized (3)

Min-U-Script®

Burke Court Reporting & Transcription (973) 692-0660

(48) standing - subsidized

182:7

17

297:1

24:5

217:8,16;219:10 substance (2) 171:8:249:1 substances (5) 111:6;161:23; 162:2,7;273:24 substantial (1) 252:14 substrates (1) 177:2 suburbia (4) 126:5,7,21;127:4 succeed (1) 107:8 succeeding (1) 210:11 success (20) 27:7,8;41:11,13,13; 61:14:106:11:108:14; 111:13;137:3;140:4; 141:9,13;189:8; 190:2;191:3,12; 201:18;204:25; 277:20 successes (1) 93:14 successful (15) 13:21;25:4;28:20; 57:11;72:2;75:18; 116:10,14:193:8,22; 194:3,4:234:17; 262:2:268:10 successfully (2) 18:13:25:12 succession (2) 40:14;262:4 succinct (2) 42:24:231:23 succinctly (1) 142:24 suck (1) 231:13 suffering (2) 296:13;297:16 suffers (2) 252:4,6 sufficient (2) 66:8;152:14 suggest (3) 162:12;226:18; 283:11 suggestions (2) 226:6,23 suing (1) 242:16 suitable (1) 152:25 suited (1) 174:5 sulfites (4) 48:1,3,3,5 summary (2) 12:1;23:17

summer (3) 282:25;292:1,11,12 123:24:126:19: supported (4) 13:19;24:7;102:12; 221:19 sunflower (9) 292:17 177:3.5:178:20; supporter (1) 179:2,5,8,16;181:8; 270:21 supporters (1) sunflowers (3) 104:22 180:6;181:18;195:2 supporting (15) sunset (6) 16:20:17:22; 174:19;175:9; 107:19;112:25;114:5; 183:15;248:24;249:7, 115:1,13:116:14; 120:19;129:16; 190:19;201:17; sunsets (1) 209:17;211:15;225:4 super (7) supportive (5) 19:11,18;28:1;76:5; 114:17;193:18,19; 231:2;237:25;251:8 247:3;274:18 super-emitter (1) supports (2) 145:11 205:23;206:2 superior (1) supposed (4) 51:3,7;165:24; 117:20 supervisor (1) 220:8 sure (62) supplement (1) 6:6;13:4,11;15:8; 169:19 17:15;22:4;27:5; supplementing (1) 28:10,18;33:21; 262:21 34:15,19;36:5;37:24; supplements (2) 42:8;43:15;44:19; 169:16:171:24 47:22;48:10,12;52:7; suppliers (2) 54:7:58:3:63:21; 51:14:262:20 67:10:76:21:78:21: supplies (1) 86:3,13:88:24:89:1; 260:22 92:15;93:5;94:10; supply (22) 116:22;136:10;138:3; 36:13;45:15;63:2; 146:23;147:22;149:4; 85:8,16,17;162:11; 154:20;155:14,18,21; 167:3;174:20;202:7; 157:7;167:5;172:17; 211:20;223:23; 181:21;186:4;187:19; 224:24,24,25;225:18, 190:19;194:6;200:13; 23;261:8;281:23; 228:8;231:11;233:22, 24:234:1;236:6; 282:6;284:21;292:1 support (68) 237:22;251:6;253:18 surface (1) 12:23;28:4;29:18; 62:14,16;72:14; 108:1 100:4;102:14;103:9, surgery (1) 264:20 12;104:13,17;105:4, 9;108:16;109:13,19; surprise (1) 110:3,13;111:3; 81:16 114:2,14,25;115:2; surprised (1) 118:5;122:24;123:6, 43:24 9;124:10;129:11; surveillance (1) 139:13;141:13; 78:3 161:21;162:9,22; survey (12) 32:24;33:7,11,19; 163:22;170:5;186:24; 198:8;200:22;201:2; 34:2,4;106:5;111:8; 203:17;205:4,11,13, 261:22;282:17,20; 15,18;208:19,20,20, 284:19 21;241:23;251:16; surveyed (1) 252:5,20;254:9; 111:4 260:25;261:25; surveys (1) 270:11,20,25;271:9; 287:1 274:24;277:15; survive (1)

202:3 suspended (1) 207:16 suspension (1) 89:12 suspensions (1) 90:11 sustain (2) 263:21;278:8 sustainable (5) 123:18;150:1; 270:9,18:288:18 sweep (1) 199:21 sweeping (1) 199:15 swept (1) 199:13 swift (1) 207:17 Syburg (9) 253:22;258:10; 263:6,8;265:13; 266:16,20;267:7,15 Syngenta (1) 127:1 synthetic (13) 34:5;162:1,7;179:9; 239:14,19,22;240:6, 12,18;242:5;248:4; 267:2 synthetics (5) 239:25;243:19; 254:25:255:18: 268:22 syrup (1) 11:6 system (56) 48:13;55:4,13,17; 56:3.15.25:57:7.16. 17;58:21,22;59:16,20, 23,25;60:1,3;61:6,7, 17,18;62:9;68:2; 71:16;75:3,3;82:10; 90:8;102:14;110:2; 112:19;115:9;122:5, 5;144:21;156:6,7; 167:21;180:21;203:5; 208:6,7,22;212:11; 224:18,21;227:3; 231:19;234:16; 239:21:262:25: 265:12;276:20;292:6, 17 systemic (1) 208:19 systems (28) 21:4;59:21;68:22; 80:15,15;82:19; 104:20;109:15;110:6; 111:6;133:13;168:14; 212:1;222:8;230:25; 244:4,4;247:25;

- Vol. 3 April 29, 2024

251:22;259:19,25; 263:22;264:12,15; 282:3;291:15;292:7; 295:4Т table (13) 19:7:35:1:37:4; 38:16:40:22:87:11: 96:16;117:12;141:21; 221:3:224:4:238:1.2 tables (2) 225:8,8 tackle (1) 281:3 tackling (1) 231:4 tactic (1) 267:23 Ta-da (1) 255:20 tag (1) 138:3 tags (1) 37:20 tails (1) 210:21 takeaways (2) 191:18:219:6 talented (2) 31:13.14 talents (2) 97:17;232:3 talk (52) 11:19;13:16;14:14; 23:24:26:12:28:8.11: 34:23;36:18;37:1; 39:18:41:15:45:24; 54:18:64:5:72:22: 73:5;83:17;85:20,20; 93:13:99:7.14: 103:19;107:7;121:5; 123:5;126:18;137:2; 138:8;164:1;167:14; 179:16;180:1,3,3; 187:17;196:9;208:10; 209:19;216:23; 241:12;242:7;246:4; 247:6;251:5;258:14; 259:20:274:6:275:8: 276:16:295:2 talked (13) 46:19;127:6; 139:11;180:10; 206:10;227:6;240:22, 23;242:14;243:24; 261:18;298:24; 300:24 talking (39) 36:6;41:25;42:14; 45:24;46:1,2,5;58:15; 62:24;64:14;67:9,10;

Min-U-Script®

Burke Court Reporting & Transcription (973) 692-0660

(49) substance - talking

- Vol. 3 April 29, 2024

Spring 2024 Meeting	Г <u> </u>	<u> </u>	r	April 29, 2024
74.10.05.19.00.11.	to also also also (1)	40.04 (19)	288.21.280.25.	129.15
74:10;95:18;99:11;	technologist (1)	test (18)	288:21;289:25;	138:15
105:21,22;107:15;	17:22	41:20;42:9;148:11;	290:17;291:7;293:18,	threatens (1)
108:2,3,7;116:17;	technology (7)	149:3;150:25;152:8,	20;294:15,16,18;	202:6
130:22;132:10;135:6,	87:4;99:21;153:14;	12;153:10,12;157:19,	297:7,19;300:9,11,12;	threats (1)
7,17;156:14;158:12;	165:9;232:24;264:11,	21;159:3,7;162:12;	301:9	300:2
192:7,12;199:5;	13	174:16;218:8,8,9	that'd (1)	three (39)
206:12;218:15;	teens (3)	testament (1)	226:24	26:16,16,24;30:8;
233:19;242:15;	65:18;266:12,12	98:19	theme (3)	37:22,23;49:21;70:1;
257:14;286:19;	teensy (2)	tested (4)	144:6;292:1;301:1	86:22;92:22;98:1,5;
300:13	142:3,4	151:22;229:14,20;	there'd (1)	101:16;103:16;
talks (1)	telegraph (1)	288:9	297:10	117:16;128:17;
65:19	276:13	testimony (4)	therefore (4)	137:21;141:1;144:7,
tall (1)	telling (2)	7:16;176:9;201:7;	121:2;130:10;	9;161:20;177:3,11,
271:20	15:13;191:12	203:24	265:23;283:11	13;183:14,17;189:18;
tanks (1)	tells (2)	testing (25)	thick (1)	192:19;195:23;
6:25	47:5;117:19	36:2;76:12;77:25,	59:8	217:21;221:9;227:1,
tap (2)	templates (2)	25;78:14;127:1;	thing's (1)	4;248:15;251:19;
117:12;139:24	161:22;170:2	162:10;173:20;	159:19	253:9;257:4;292:18;
Target (6)	temporary (2)	184:14,15;201:11;	thinking (23)	295:15
41:22;202:8;	60:6,10	227:10;229:7,20;	42:13;48:17;85:11;	three- (2)
225:20;230:20;237:8;	tempting (1)	232:4,16,19;233:17;	112:17,19,20;114:13;	52:22;245:11
279:22	27:12	254:11;258:7;275:3;	127:19;140:6,11,12,	three-step (1)
targeted (4)	ten (2)	276:17,19;277:1;	20,23;199:6;203:23;	46:14
78:14;200:22;	26:24;96:1	290:24	204:19;205:21;	three-to-one (1)
233:21;250:16	tend (3)	tests (15)	207:25;213:12;	244:2
targeting (3)	15:3;75:1;116:23	149:12;150:18;	233:23;244:1,4;256:1	three-year (1)
91:23;133:19;	tended (1)		third (12)	147:6
		151:19,20;154:2,6,21,		
236:13	281:24	22;155:1,12;156:25;	35:12;36:11;95:12,	threshold (8)
Task (3)	tends (3)	157:6;267:10,12,17	12;118:3;119:16;	145:11;153:6,8,19;
176:2,4;180:9	81:15;96:10;255:19	thankful (1)	162:9;193:16;214:10;	154:2;157:13;158:7,
tastes (2)	tenet (1)	228:12	229:13;231:17;282:6	13
215:11;219:19	202:12	thankfully (1)	third-party (3)	thrilled (1)
		thankfully (1) 19:3		thrilled (1) 132:25
taught (1)	Tennessee (8)	19:3	148:9;291:15;	132:25
taught (1) 289:11	Tennessee (8) 100:8;103:9;134:5;	19:3 Thanks (112)	148:9;291:15; 293:11	132:25 thrive (1)
taught (1) 289:11 teach (2)	Tennessee (8) 100:8;103:9;134:5; 137:11,19;138:5,9;	19:3 Thanks (112) 15:23;16:7;18:20,	148:9;291:15; 293:11 thoroughly (1)	132:25 thrive (1) 271:4
taught (1) 289:11 teach (2) 253:5;289:18	Tennessee (8) 100:8;103:9;134:5; 137:11,19;138:5,9; 139:14	19:3 Thanks (112) 15:23;16:7;18:20, 24;22:21;23:7,16,22;	148:9;291:15; 293:11 thoroughly (1) 198:17	132:25 thrive (1) 271:4 throughout (6)
taught (1) 289:11 teach (2) 253:5;289:18 teaching (1)	Tennessee (8) 100:8;103:9;134:5; 137:11,19;138:5,9; 139:14 tense (4)	19:3 Thanks (112) 15:23;16:7;18:20, 24;22:21;23:7,16,22; 38:23;42:21;43:6;	148:9;291:15; 293:11 thoroughly (1) 198:17 thou (2)	132:25 thrive (1) 271:4 throughout (6) 101:7,25;178:23;
taught (1) 289:11 teach (2) 253:5;289:18 teaching (1) 268:2	Tennessee (8) 100:8;103:9;134:5; 137:11,19;138:5,9; 139:14 tense (4) 45:11,11,12;82:20	19:3 Thanks (112) 15:23;16:7;18:20, 24;22:21;23:7,16,22; 38:23;42:21;43:6; 74:21;76:4;83:13;	148:9;291:15; 293:11 thoroughly (1) 198:17 thou (2) 84:21,21	132:25 thrive (1) 271:4 throughout (6) 101:7,25;178:23; 195:4,25;210:7
taught (1) 289:11 teach (2) 253:5;289:18 teaching (1) 268:2 team (27)	Tennessee (8) 100:8;103:9;134:5; 137:11,19;138:5,9; 139:14 tense (4) 45:11,11,12;82:20 tension (2)	19:3 Thanks (112) 15:23;16:7;18:20, 24;22:21;23:7,16,22; 38:23;42:21;43:6; 74:21;76:4;83:13; 89:1,1;97:19;98:25;	148:9;291:15; 293:11 thoroughly (1) 198:17 thou (2) 84:21,21 Though (15)	132:25 thrive (1) 271:4 throughout (6) 101:7,25;178:23; 195:4,25;210:7 throughput (3)
taught (1) 289:11 teach (2) 253:5;289:18 teaching (1) 268:2 team (27) 7:8;16:15;17:9;	Tennessee (8) 100:8;103:9;134:5; 137:11,19;138:5,9; 139:14 tense (4) 45:11,11,12;82:20 tension (2) 178:9,9	19:3 Thanks (112) 15:23;16:7;18:20, 24;22:21;23:7,16,22; 38:23;42:21;43:6; 74:21;76:4;83:13; 89:1,1;97:19;98:25; 108:18;111:18,22;	148:9;291:15; 293:11 thoroughly (1) 198:17 thou (2) 84:21,21 Though (15) 16:11;54:4;57:18;	132:25 thrive (1) 271:4 throughout (6) 101:7,25;178:23; 195:4,25;210:7 throughput (3) 57:11;64:7;253:12
taught (1) 289:11 teach (2) 253:5;289:18 teaching (1) 268:2 team (27)	Tennessee (8) 100:8;103:9;134:5; 137:11,19;138:5,9; 139:14 tense (4) 45:11,11,12;82:20 tension (2)	19:3 Thanks (112) 15:23;16:7;18:20, 24;22:21;23:7,16,22; 38:23;42:21;43:6; 74:21;76:4;83:13; 89:1,1;97:19;98:25;	148:9;291:15; 293:11 thoroughly (1) 198:17 thou (2) 84:21,21 Though (15)	132:25 thrive (1) 271:4 throughout (6) 101:7,25;178:23; 195:4,25;210:7 throughput (3) 57:11;64:7;253:12 throw (1)
taught (1) 289:11 teach (2) 253:5;289:18 teaching (1) 268:2 team (27) 7:8;16:15;17:9;	Tennessee (8) 100:8;103:9;134:5; 137:11,19;138:5,9; 139:14 tense (4) 45:11,11,12;82:20 tension (2) 178:9,9	19:3 Thanks (112) 15:23;16:7;18:20, 24;22:21;23:7,16,22; 38:23;42:21;43:6; 74:21;76:4;83:13; 89:1,1;97:19;98:25; 108:18;111:18,22;	148:9;291:15; 293:11 thoroughly (1) 198:17 thou (2) 84:21,21 Though (15) 16:11;54:4;57:18;	132:25 thrive (1) 271:4 throughout (6) 101:7,25;178:23; 195:4,25;210:7 throughput (3) 57:11;64:7;253:12
taught (1) 289:11 teach (2) 253:5;289:18 teaching (1) 268:2 team (27) 7:8;16:15;17:9; 18:5;20:13;23:12; 30:21;31:3,8,9,11;	Tennessee (8) 100:8;103:9;134:5; 137:11,19;138:5,9; 139:14 tense (4) 45:11,11,12;82:20 tension (2) 178:9,9 tenure (2) 264:5;292:23	19:3 Thanks (112) 15:23;16:7;18:20, 24;22:21;23:7,16,22; 38:23;42:21;43:6; 74:21;76:4;83:13; 89:1,1;97:19;98:25; 108:18;111:18,22; 117:3;121:10;129:21; 135:21;146:1;155:20;	148:9;291:15; 293:11 thoroughly (1) 198:17 thou (2) 84:21,21 Though (15) 16:11;54:4;57:18; 60:12;62:14;79:5; 82:14;100:9;109:18;	132:25 thrive (1) 271:4 throughout (6) 101:7,25;178:23; 195:4,25;210:7 throughput (3) 57:11;64:7;253:12 throw (1) 250:14
taught (1) 289:11 teach (2) 253:5;289:18 teaching (1) 268:2 team (27) 7:8;16:15;17:9; 18:5;20:13;23:12; 30:21;31:3,8,9,11; 32:14,18;52:19;	Tennessee (8) 100:8;103:9;134:5; 137:11,19;138:5,9; 139:14 tense (4) 45:11,11,12;82:20 tension (2) 178:9,9 tenure (2) 264:5;292:23 term (10)	19:3 Thanks (112) 15:23;16:7;18:20, 24;22:21;23:7,16,22; 38:23;42:21;43:6; 74:21;76:4;83:13; 89:1,1;97:19;98:25; 108:18;111:18,22; 117:3;121:10;129:21; 135:21;146:1;155:20; 157:12;159:21;163:3,	148:9;291:15; 293:11 thoroughly (1) 198:17 thou (2) 84:21,21 Though (15) 16:11;54:4;57:18; 60:12;62:14;79:5; 82:14;100:9;109:18; 110:8,18;258:2;	132:25 thrive (1) 271:4 throughout (6) 101:7,25;178:23; 195:4,25;210:7 throughput (3) 57:11;64:7;253:12 throw (1) 250:14 throwaway (1)
taught (1) 289:11 teach (2) 253:5;289:18 teaching (1) 268:2 team (27) 7:8;16:15;17:9; 18:5;20:13;23:12; 30:21;31:3,8,9,11; 32:14,18;52:19; 53:24;54:5;63:14;	Tennessee (8) 100:8;103:9;134:5; 137:11,19;138:5,9; 139:14 tense (4) 45:11,11,12;82:20 tension (2) 178:9,9 tenure (2) 264:5;292:23 term (10) 25:4;50:17;85:5;	19:3 Thanks (112) 15:23;16:7;18:20, 24;22:21;23:7,16,22; 38:23;42:21;43:6; 74:21;76:4;83:13; 89:1,1;97:19;98:25; 108:18;111:18,22; 117:3;121:10;129:21; 135:21;146:1;155:20; 157:12;159:21;163:3, 5,16;165:17,20;	148:9;291:15; 293:11 thoroughly (1) 198:17 thou (2) 84:21,21 Though (15) 16:11;54:4;57:18; 60:12;62:14;79:5; 82:14;100:9;109:18; 110:8,18;258:2; 266:25;298:1,21	132:25 thrive (1) 271:4 throughout (6) 101:7,25;178:23; 195:4,25;210:7 throughput (3) 57:11;64:7;253:12 throw (1) 250:14 throwaway (1) 7:2
taught (1) 289:11 teach (2) 253:5;289:18 teaching (1) 268:2 team (27) 7:8;16:15;17:9; 18:5;20:13;23:12; 30:21;31:3,8,9,11; 32:14,18;52:19; 53:24;54:5;63:14; 87:1,4,13;98:10;	Tennessee (8) 100:8;103:9;134:5; 137:11,19;138:5,9; 139:14 tense (4) 45:11,11,12;82:20 tension (2) 178:9,9 tenure (2) 264:5;292:23 term (10) 25:4;50:17;85:5; 127:7;205:14;215:10;	19:3 Thanks (112) 15:23;16:7;18:20, 24;22:21;23:7,16,22; 38:23;42:21;43:6; 74:21;76:4;83:13; 89:1,1;97:19;98:25; 108:18;111:18,22; 117:3;121:10;129:21; 135:21;146:1;155:20; 157:12;159:21;163:3, 5,16;165:17,20; 167:9;168:9;171:4;	148:9;291:15; 293:11 thoroughly (1) 198:17 thou (2) 84:21,21 Though (15) 16:11;54:4;57:18; 60:12;62:14;79:5; 82:14;100:9;109:18; 110:8,18;258:2; 266:25;298:1,21 thought (14)	132:25 thrive (1) 271:4 throughout (6) 101:7,25;178:23; 195:4,25;210:7 throughput (3) 57:11;64:7;253:12 throw (1) 250:14 throwaway (1) 7:2 tie (2)
taught (1) 289:11 teach (2) 253:5;289:18 teaching (1) 268:2 team (27) 7:8;16:15;17:9; 18:5;20:13;23:12; 30:21;31:3,8,9,11; 32:14,18;52:19; 53:24;54:5;63:14; 87:1,4,13;98:10; 107:15;118:5;120:16;	Tennessee (8) 100:8;103:9;134:5; 137:11,19;138:5,9; 139:14 tense (4) 45:11,11,12;82:20 tension (2) 178:9,9 tenure (2) 264:5;292:23 term (10) 25:4;50:17;85:5; 127:7;205:14;215:10; 216:15;221:5;235:20;	19:3 Thanks (112) 15:23;16:7;18:20, 24;22:21;23:7,16,22; 38:23;42:21;43:6; 74:21;76:4;83:13; 89:1,1;97:19;98:25; 108:18;111:18,22; 117:3;121:10;129:21; 135:21;146:1;155:20; 157:12;159:21;163:3, 5,16;165:17,20; 167:9;168:9;171:4; 174:11;175:18;181:5;	148:9;291:15; 293:11 thoroughly (1) 198:17 thou (2) 84:21,21 Though (15) 16:11;54:4;57:18; 60:12;62:14;79:5; 82:14;100:9;109:18; 110:8,18;258:2; 266:25;298:1,21 thought (14) 33:23;45:2;83:14;	132:25 thrive (1) 271:4 throughout (6) 101:7,25;178:23; 195:4,25;210:7 throughput (3) 57:11;64:7;253:12 throw (1) 250:14 throwaway (1) 7:2 tie (2) 234:25;266:5
taught (1) 289:11 teach (2) 253:5;289:18 teaching (1) 268:2 team (27) 7:8;16:15;17:9; 18:5;20:13;23:12; 30:21;31:3,8,9,11; 32:14,18;52:19; 53:24;54:5;63:14; 87:1,4,13;98:10; 107:15;118:5;120:16; 189:11;224:17;225:4	Tennessee (8) 100:8;103:9;134:5; 137:11,19;138:5,9; 139:14 tense (4) 45:11,11,12;82:20 tension (2) 178:9,9 tenure (2) 264:5;292:23 term (10) 25:4;50:17;85:5; 127:7;205:14;215:10; 216:15;221:5;235:20; 294:14	19:3 Thanks (112) 15:23;16:7;18:20, 24;22:21;23:7,16,22; 38:23;42:21;43:6; 74:21;76:4;83:13; 89:1,1;97:19;98:25; 108:18;111:18,22; 117:3;121:10;129:21; 135:21;146:1;155:20; 157:12;159:21;163:3, 5,16;165:17,20; 167:9;168:9;171:4; 174:11;175:18;181:5; 182:25;185:2;187:5;	148:9;291:15; 293:11 thoroughly (1) 198:17 thou (2) 84:21,21 Though (15) 16:11;54:4;57:18; 60:12;62:14;79:5; 82:14;100:9;109:18; 110:8,18;258:2; 266:25;298:1,21 thought (14) 33:23;45:2;83:14; 86:23;93:18;97:2;	132:25 thrive (1) 271:4 throughout (6) 101:7,25;178:23; 195:4,25;210:7 throughput (3) 57:11;64:7;253:12 throw (1) 250:14 throwaway (1) 7:2 tie (2) 234:25;266:5 tiered (2)
taught (1) 289:11 teach (2) 253:5;289:18 teaching (1) 268:2 team (27) 7:8;16:15;17:9; 18:5;20:13;23:12; 30:21;31:3,8,9,11; 32:14,18;52:19; 53:24;54:5;63:14; 87:1,4,13;98:10; 107:15;118:5;120:16; 189:11;224:17;225:4 tech (1)	Tennessee (8) 100:8;103:9;134:5; 137:11,19;138:5,9; 139:14 tense (4) 45:11,11,12;82:20 tension (2) 178:9,9 tenure (2) 264:5;292:23 term (10) 25:4;50:17;85:5; 127:7;205:14;215:10; 216:15;221:5;235:20; 294:14 terminology (1)	19:3 Thanks (112) 15:23;16:7;18:20, 24;22:21;23:7,16,22; 38:23;42:21;43:6; 74:21;76:4;83:13; 89:1,1;97:19;98:25; 108:18;111:18,22; 117:3;121:10;129:21; 135:21;146:1;155:20; 157:12;159:21;163:3, 5,16;165:17,20; 167:9;168:9;171:4; 174:11;175:18;181:5; 182:25;185:2;187:5; 192:11;194:8;196:22;	148:9;291:15; 293:11 thoroughly (1) 198:17 thou (2) 84:21,21 Though (15) 16:11;54:4;57:18; 60:12;62:14;79:5; 82:14;100:9;109:18; 110:8,18;258:2; 266:25;298:1,21 thought (14) 33:23;45:2;83:14; 86:23;93:18;97:2; 125:3;171:2;185:14;	132:25 thrive (1) 271:4 throughout (6) 101:7,25;178:23; 195:4,25;210:7 throughput (3) 57:11;64:7;253:12 throw (1) 250:14 throwaway (1) 7:2 tie (2) 234:25;266:5 tiered (2) 150:21;151:20
taught (1) 289:11 teach (2) 253:5;289:18 teaching (1) 268:2 team (27) 7:8;16:15;17:9; 18:5;20:13;23:12; 30:21;31:3,8,9,11; 32:14,18;52:19; 53:24;54:5;63:14; 87:1,4,13;98:10; 107:15;118:5;120:16; 189:11;224:17;225:4 tech (1) 19:3	Tennessee (8) 100:8;103:9;134:5; 137:11,19;138:5,9; 139:14 tense (4) 45:11,11,12;82:20 tension (2) 178:9,9 tenure (2) 264:5;292:23 term (10) 25:4;50:17;85:5; 127:7;205:14;215:10; 216:15;221:5;235:20; 294:14 terminology (1) 161:10	19:3 Thanks (112) 15:23;16:7;18:20, 24;22:21;23:7,16,22; 38:23;42:21;43:6; 74:21;76:4;83:13; 89:1,1;97:19;98:25; 108:18;111:18,22; 117:3;121:10;129:21; 135:21;146:1;155:20; 157:12;159:21;163:3, 5,16;165:17,20; 167:9;168:9;171:4; 174:11;175:18;181:5; 182:25;185:2;187:5; 192:11;194:8;196:22; 198:25;199:2,3;	148:9;291:15; 293:11 thoroughly (1) 198:17 thou (2) 84:21,21 Though (15) 16:11;54:4;57:18; 60:12;62:14;79:5; 82:14;100:9;109:18; 110:8,18;258:2; 266:25;298:1,21 thought (14) 33:23;45:2;83:14; 86:23;93:18;97:2; 125:3;171:2;185:14; 207:1;208:24;216:15;	132:25 thrive (1) 271:4 throughout (6) 101:7,25;178:23; 195:4,25;210:7 throughput (3) 57:11;64:7;253:12 throw (1) 250:14 throwaway (1) 7:2 tie (2) 234:25;266:5 tiered (2) 150:21;151:20 tight (2)
taught (1) 289:11 teach (2) 253:5;289:18 teaching (1) 268:2 team (27) 7:8;16:15;17:9; 18:5;20:13;23:12; 30:21;31:3,8,9,11; 32:14,18;52:19; 53:24;54:5;63:14; 87:1,4,13;98:10; 107:15;118:5;120:16; 189:11;224:17;225:4 tech (1) 19:3 technical (24)	Tennessee (8) 100:8;103:9;134:5; 137:11,19;138:5,9; 139:14 tense (4) 45:11,11,12;82:20 tension (2) 178:9,9 tenure (2) 264:5;292:23 term (10) 25:4;50:17;85:5; 127:7;205:14;215:10; 216:15;221:5;235:20; 294:14 terminology (1) 161:10 terms (19)	19:3 Thanks (112) 15:23;16:7;18:20, 24;22:21;23:7,16,22; 38:23;42:21;43:6; 74:21;76:4;83:13; 89:1,1;97:19;98:25; 108:18;111:18,22; 117:3;121:10;129:21; 135:21;146:1;155:20; 157:12;159:21;163:3, 5,16;165:17,20; 167:9;168:9;171:4; 174:11;175:18;181:5; 182:25;185:2;187:5; 192:11;194:8;196:22; 198:25;199:2,3; 200:1;202:20;203:13;	148:9;291:15; 293:11 thoroughly (1) 198:17 thou (2) 84:21,21 Though (15) 16:11;54:4;57:18; 60:12;62:14;79:5; 82:14;100:9;109:18; 110:8,18;258:2; 266:25;298:1,21 thought (14) 33:23;45:2;83:14; 86:23;93:18;97:2; 125:3;171:2;185:14; 207:1;208:24;216:15; 219:13;241:11	132:25 thrive (1) 271:4 throughout (6) 101:7,25;178:23; 195:4,25;210:7 throughput (3) 57:11;64:7;253:12 throw (1) 250:14 throwaway (1) 7:2 tie (2) 234:25;266:5 tiered (2) 150:21;151:20 tight (2) 265:8;293:19
taught (1) 289:11 teach (2) 253:5;289:18 teaching (1) 268:2 team (27) 7:8;16:15;17:9; 18:5;20:13;23:12; 30:21;31:3,8,9,11; 32:14,18;52:19; 53:24;54:5;63:14; 87:1,4,13;98:10; 107:15;118:5;120:16; 189:11;224:17;225:4 tech (1) 19:3 technical (24) 17:22;38:1;71:7,10,	Tennessee (8) 100:8;103:9;134:5; 137:11,19;138:5,9; 139:14 tense (4) 45:11,11,12;82:20 tension (2) 178:9,9 tenure (2) 264:5;292:23 term (10) 25:4;50:17;85:5; 127:7;205:14;215:10; 216:15;221:5;235:20; 294:14 terminology (1) 161:10 terms (19) 41:15;77:25;80:4;	19:3 Thanks (112) 15:23;16:7;18:20, 24;22:21;23:7,16,22; 38:23;42:21;43:6; 74:21;76:4;83:13; 89:1,1;97:19;98:25; 108:18;111:18,22; 117:3;121:10;129:21; 135:21;146:1;155:20; 157:12;159:21;163:3, 5,16;165:17,20; 167:9;168:9;171:4; 174:11;175:18;181:5; 182:25;185:2;187:5; 192:11;194:8;196:22; 198:25;199:2,3; 200:1;202:20;203:13; 206:20;209:1;210:15,	148:9;291:15; 293:11 thoroughly (1) 198:17 thou (2) 84:21,21 Though (15) 16:11;54:4;57:18; 60:12;62:14;79:5; 82:14;100:9;109:18; 110:8,18;258:2; 266:25;298:1,21 thought (14) 33:23;45:2;83:14; 86:23;93:18;97:2; 125:3;171:2;185:14; 207:1;208:24;216:15; 219:13;241:11 thoughts (5)	132:25 thrive (1) 271:4 throughout (6) 101:7,25;178:23; 195:4,25;210:7 throughput (3) 57:11;64:7;253:12 throw (1) 250:14 throwaway (1) 7:2 tie (2) 234:25;266:5 tiered (2) 150:21;151:20 tight (2)
taught (1) 289:11 teach (2) 253:5;289:18 teaching (1) 268:2 team (27) 7:8;16:15;17:9; 18:5;20:13;23:12; 30:21;31:3,8,9,11; 32:14,18;52:19; 53:24;54:5;63:14; 87:1,4,13;98:10; 107:15;118:5;120:16; 189:11;224:17;225:4 tech (1) 19:3 technical (24)	Tennessee (8) 100:8;103:9;134:5; 137:11,19;138:5,9; 139:14 tense (4) 45:11,11,12;82:20 tension (2) 178:9,9 tenure (2) 264:5;292:23 term (10) 25:4;50:17;85:5; 127:7;205:14;215:10; 216:15;221:5;235:20; 294:14 terminology (1) 161:10 terms (19)	19:3 Thanks (112) 15:23;16:7;18:20, 24;22:21;23:7,16,22; 38:23;42:21;43:6; 74:21;76:4;83:13; 89:1,1;97:19;98:25; 108:18;111:18,22; 117:3;121:10;129:21; 135:21;146:1;155:20; 157:12;159:21;163:3, 5,16;165:17,20; 167:9;168:9;171:4; 174:11;175:18;181:5; 182:25;185:2;187:5; 192:11;194:8;196:22; 198:25;199:2,3; 200:1;202:20;203:13;	148:9;291:15; 293:11 thoroughly (1) 198:17 thou (2) 84:21,21 Though (15) 16:11;54:4;57:18; 60:12;62:14;79:5; 82:14;100:9;109:18; 110:8,18;258:2; 266:25;298:1,21 thought (14) 33:23;45:2;83:14; 86:23;93:18;97:2; 125:3;171:2;185:14; 207:1;208:24;216:15; 219:13;241:11	132:25 thrive (1) 271:4 throughout (6) 101:7,25;178:23; 195:4,25;210:7 throughput (3) 57:11;64:7;253:12 throw (1) 250:14 throwaway (1) 7:2 tie (2) 234:25;266:5 tiered (2) 150:21;151:20 tight (2) 265:8;293:19
taught (1) 289:11 teach (2) 253:5;289:18 teaching (1) 268:2 team (27) 7:8;16:15;17:9; 18:5;20:13;23:12; 30:21;31:3,8,9,11; 32:14,18;52:19; 53:24;54:5;63:14; 87:1,4,13;98:10; 107:15;118:5;120:16; 189:11;224:17;225:4 tech (1) 19:3 technical (24) 17:22;38:1;71:7,10, 11;99:14;100:2;	Tennessee (8) 100:8;103:9;134:5; 137:11,19;138:5,9; 139:14 tense (4) 45:11,11,12;82:20 tension (2) 178:9,9 tenure (2) 264:5;292:23 term (10) 25:4;50:17;85:5; 127:7;205:14;215:10; 216:15;221:5;235:20; 294:14 terminology (1) 161:10 terms (19) 41:15;77:25;80:4; 82:6;89:23;91:10;	19:3 Thanks (112) 15:23;16:7;18:20, 24;22:21;23:7,16,22; 38:23;42:21;43:6; 74:21;76:4;83:13; 89:1,1;97:19;98:25; 108:18;111:18,22; 117:3;121:10;129:21; 135:21;146:1;155:20; 157:12;159:21;163:3, 5,16;165:17,20; 167:9;168:9;171:4; 174:11;175:18;181:5; 182:25;185:2;187:5; 192:11;194:8;196:22; 198:25;199:2,3; 200:1;202:20;203:13; 206:20;209:1;210:15, 17,17;212:7;213:18;	148:9;291:15; 293:11 thoroughly (1) 198:17 thou (2) 84:21,21 Though (15) 16:11;54:4;57:18; 60:12;62:14;79:5; 82:14;100:9;109:18; 110:8,18;258:2; 266:25;298:1,21 thought (14) 33:23;45:2;83:14; 86:23;93:18;97:2; 125:3;171:2;185:14; 207:1;208:24;216:15; 219:13;241:11 thoughts (5) 93:3;154:18;	132:25 thrive (1) 271:4 throughout (6) 101:7,25;178:23; 195:4,25;210:7 throughput (3) 57:11;64:7;253:12 throw (1) 250:14 throwaway (1) 7:2 tie (2) 234:25;266:5 tiered (2) 150:21;151:20 tight (2) 265:8;293:19 tightly (1) 80:5
taught (1) 289:11 teach (2) 253:5;289:18 teaching (1) 268:2 team (27) 7:8;16:15;17:9; 18:5;20:13;23:12; 30:21;31:3,8,9,11; 32:14,18;52:19; 53:24;54:5;63:14; 87:1,4,13;98:10; 107:15;118:5;120:16; 189:11;224:17;225:4 tech (1) 19:3 technical (24) 17:22;38:1;71:7,10, 11;99:14;100:2; 102:13,13,18;104:4,	Tennessee (8) 100:8;103:9;134:5; 137:11,19;138:5,9; 139:14 tense (4) 45:11,11,12;82:20 tension (2) 178:9,9 tenure (2) 264:5;292:23 term (10) 25:4;50:17;85:5; 127:7;205:14;215:10; 216:15;221:5;235:20; 294:14 terminology (1) 161:10 terms (19) 41:15;77:25;80:4; 82:6;89:23;91:10; 105:24;107:16;	19:3 Thanks (112) 15:23;16:7;18:20, 24;22:21;23:7,16,22; 38:23;42:21;43:6; 74:21;76:4;83:13; 89:1,1;97:19;98:25; 108:18;111:18,22; 117:3;121:10;129:21; 135:21;146:1;155:20; 157:12;159:21;163:3, 5,16;165:17,20; 167:9;168:9;171:4; 174:11;175:18;181:5; 182:25;185:2;187:5; 192:11;194:8;196:22; 198:25;199:2,3; 200:1;202:20;203:13; 206:20;209:1;210:15, 17,17;212:7;213:18; 216:9,10,10;219:22;	148:9;291:15; 293:11 thoroughly (1) 198:17 thou (2) 84:21,21 Though (15) 16:11;54:4;57:18; 60:12;62:14;79:5; 82:14;100:9;109:18; 110:8,18;258:2; 266:25;298:1,21 thought (14) 33:23;45:2;83:14; 86:23;93:18;97:2; 125:3;171:2;185:14; 207:1;208:24;216:15; 219:13;241:11 thoughts (5) 93:3;154:18; 212:20;223:5;244:12	132:25 thrive (1) 271:4 throughout (6) 101:7,25;178:23; 195:4,25;210:7 throughput (3) 57:11;64:7;253:12 throw (1) 250:14 throwaway (1) 7:2 tie (2) 234:25;266:5 tiered (2) 150:21;151:20 tight (2) 265:8;293:19 tightly (1) 80:5 TikTok (1)
taught (1) 289:11 teach (2) 253:5;289:18 teaching (1) 268:2 team (27) 7:8;16:15;17:9; 18:5;20:13;23:12; 30:21;31:3,8,9,11; 32:14,18;52:19; 53:24;54:5;63:14; 87:1,4,13;98:10; 107:15;118:5;120:16; 189:11;224:17;225:4 tech (1) 19:3 technical (24) 17:22;38:1;71:7,10, 11;99:14;100:2; 102:13,13,18;104:4, 17;105:7;107:9;	Tennessee (8) 100:8;103:9;134:5; 137:11,19;138:5,9; 139:14 tense (4) 45:11,11,12;82:20 tension (2) 178:9,9 tenure (2) 264:5;292:23 term (10) 25:4;50:17;85:5; 127:7;205:14;215:10; 216:15;221:5;235:20; 294:14 terminology (1) 161:10 terms (19) 41:15;77:25;80:4; 82:6;89:23;91:10; 105:24;107:16; 113:24;115:20;116:5;	19:3 Thanks (112) 15:23;16:7;18:20, 24;22:21;23:7,16,22; 38:23;42:21;43:6; 74:21;76:4;83:13; 89:1,1;97:19;98:25; 108:18;111:18,22; 117:3;121:10;129:21; 135:21;146:1;155:20; 157:12;159:21;163:3, 5,16;165:17,20; 167:9;168:9;171:4; 174:11;175:18;181:5; 182:25;185:2;187:5; 192:11;194:8;196:22; 198:25;199:2,3; 200:1;202:20;203:13; 206:20;209:1;210:15, 17,17;212:7;213:18; 216:9,10,10;219:22; 220:13,15;223:1,2,4;	148:9;291:15; 293:11 thoroughly (1) 198:17 thou (2) 84:21,21 Though (15) 16:11;54:4;57:18; 60:12;62:14;79:5; 82:14;100:9;109:18; 110:8,18;258:2; 266:25;298:1,21 thought (14) 33:23;45:2;83:14; 86:23;93:18;97:2; 125:3;171:2;185:14; 207:1;208:24;216:15; 219:13;241:11 thoughts (5) 93:3;154:18; 212:20;223:5;244:12 thousand (3)	132:25 thrive (1) 271:4 throughout (6) 101:7,25;178:23; 195:4,25;210:7 throughput (3) 57:11;64:7;253:12 throw (1) 250:14 throwaway (1) 7:2 tie (2) 234:25;266:5 tiered (2) 150:21;151:20 tight (2) 265:8;293:19 tightly (1) 80:5 TikTok (1) 217:20
taught (1) 289:11 teach (2) 253:5;289:18 teaching (1) 268:2 team (27) 7:8;16:15;17:9; 18:5;20:13;23:12; 30:21;31:3,8,9,11; 32:14,18;52:19; 53:24;54:5;63:14; 87:1,4,13;98:10; 107:15;118:5;120:16; 189:11;224:17;225:4 tech (1) 19:3 technical (24) 17:22;38:1;71:7,10, 11;99:14;100:2; 102:13,13,18;104:4, 17;105:7;107:9; 109:7,11;110:14;	Tennessee (8) 100:8;103:9;134:5; 137:11,19;138:5,9; 139:14 tense (4) 45:11,11,12;82:20 tension (2) 178:9,9 tenure (2) 264:5;292:23 term (10) 25:4;50:17;85:5; 127:7;205:14;215:10; 216:15;221:5;235:20; 294:14 terminology (1) 161:10 terms (19) 41:15;77:25;80:4; 82:6;89:23;91:10; 105:24;107:16; 113:24;115:20;116:5; 120:5;135:9;148:14;	19:3 Thanks (112) 15:23;16:7;18:20, 24;22:21;23:7,16,22; 38:23;42:21;43:6; 74:21;76:4;83:13; 89:1,1;97:19;98:25; 108:18;111:18,22; 117:3;121:10;129:21; 135:21;146:1;155:20; 157:12;159:21;163:3, 5,16;165:17,20; 167:9;168:9;171:4; 174:11;175:18;181:5; 182:25;185:2;187:5; 192:11;194:8;196:22; 198:25;199:2,3; 200:1;202:20;203:13; 206:20;209:1;210:15, 17,17;212:7;213:18; 216:9,10,10;219:22; 220:13,15;223:1,2,4; 224:12,13;233:13;	148:9;291:15; 293:11 thoroughly (1) 198:17 thou (2) 84:21,21 Though (15) 16:11;54:4;57:18; 60:12;62:14;79:5; 82:14;100:9;109:18; 110:8,18;258:2; 266:25;298:1,21 thought (14) 33:23;45:2;83:14; 86:23;93:18;97:2; 125:3;171:2;185:14; 207:1;208:24;216:15; 219:13;241:11 thoughts (5) 93:3;154:18; 212:20;223:5;244:12 thousand (3) 52:19,21;264:19	132:25 thrive (1) 271:4 throughout (6) 101:7,25;178:23; 195:4,25;210:7 throughput (3) 57:11;64:7;253:12 throw (1) 250:14 throwaway (1) 7:2 tie (2) 234:25;266:5 tiered (2) 150:21;151:20 tight (2) 265:8;293:19 tightly (1) 80:5 TikTok (1) 217:20 tillage (3)
taught (1) 289:11 teach (2) 253:5;289:18 teaching (1) 268:2 team (27) 7:8;16:15;17:9; 18:5;20:13;23:12; 30:21;31:3,8,9,11; 32:14,18;52:19; 53:24;54:5;63:14; 87:1,4,13;98:10; 107:15;118:5;120:16; 189:11;224:17;225:4 tech (1) 19:3 technical (24) 17:22;38:1;71:7,10, 11;99:14;100:2; 102:13,13,18;104:4, 17;105:7;107:9; 109:7,11;110:14; 113:12;120:15;	Tennessee (8) 100:8;103:9;134:5; 137:11,19;138:5,9; 139:14 tense (4) 45:11,11,12;82:20 tension (2) 178:9,9 tenure (2) 264:5;292:23 term (10) 25:4;50:17;85:5; 127:7;205:14;215:10; 216:15;221:5;235:20; 294:14 terminology (1) 161:10 terms (19) 41:15;77:25;80:4; 82:6;89:23;91:10; 105:24;107:16; 113:24;115:20;116:5; 120:5;135:9;148:14; 156:24;223:13,22;	19:3 Thanks (112) 15:23;16:7;18:20, 24;22:21;23:7,16,22; 38:23;42:21;43:6; 74:21;76:4;83:13; 89:1,1;97:19;98:25; 108:18;111:18,22; 117:3;121:10;129:21; 135:21;146:1;155:20; 157:12;159:21;163:3, 5,16;165:17,20; 167:9;168:9;171:4; 174:11;175:18;181:5; 182:25;185:2;187:5; 192:11;194:8;196:22; 198:25;199:2,3; 200:1;202:20;203:13; 206:20;209:1;210:15, 17,17;212:7;213:18; 216:9,10,10;219:22; 220:13,15;223:1,2,4; 224:12,13;233:13; 234:4,4;238:15;	148:9;291:15; 293:11 thoroughly (1) 198:17 thou (2) 84:21,21 Though (15) 16:11;54:4;57:18; 60:12;62:14;79:5; 82:14;100:9;109:18; 110:8,18;258:2; 266:25;298:1,21 thought (14) 33:23;45:2;83:14; 86:23;93:18;97:2; 125:3;171:2;185:14; 207:1;208:24;216:15; 219:13;241:11 thoughts (5) 93:3;154:18; 212:20;223:5;244:12 thousand (3) 52:19,21;264:19 thousands (6)	132:25 thrive (1) 271:4 throughout (6) 101:7,25;178:23; 195:4,25;210:7 throughput (3) 57:11;64:7;253:12 throw (1) 250:14 throwaway (1) 7:2 tie (2) 234:25;266:5 tiered (2) 150:21;151:20 tight (2) 265:8;293:19 tightly (1) 80:5 TikTok (1) 217:20 tillage (3) 110:1;111:2;192:2
taught (1) 289:11 teach (2) 253:5;289:18 teaching (1) 268:2 team (27) 7:8;16:15;17:9; 18:5;20:13;23:12; 30:21;31:3,8,9,11; 32:14,18;52:19; 53:24;54:5;63:14; 87:1,4,13;98:10; 107:15;118:5;120:16; 189:11;224:17;225:4 tech (1) 19:3 technical (24) 17:22;38:1;71:7,10, 11;99:14;100:2; 102:13,13,18;104:4, 17;105:7;107:9; 109:7,11;110:14; 113:12;120:15; 160:22;161:21;	Tennessee (8) 100:8;103:9;134:5; 137:11,19;138:5,9; 139:14 tense (4) 45:11,11,12;82:20 tension (2) 178:9,9 tenure (2) 264:5;292:23 term (10) 25:4;50:17;85:5; 127:7;205:14;215:10; 216:15;221:5;235:20; 294:14 terminology (1) 161:10 terms (19) 41:15;77:25;80:4; 82:6;89:23;91:10; 105:24;107:16; 113:24;115:20;116:5; 120:5;135:9;148:14; 156:24;223:13,22; 226:3;245:7	19:3 Thanks (112) 15:23;16:7;18:20, 24;22:21;23:7,16,22; 38:23;42:21;43:6; 74:21;76:4;83:13; 89:1,1;97:19;98:25; 108:18;111:18,22; 117:3;121:10;129:21; 135:21;146:1;155:20; 157:12;159:21;163:3, 5,16;165:17,20; 167:9;168:9;171:4; 174:11;175:18;181:5; 182:25;185:2;187:5; 192:11;194:8;196:22; 198:25;199:2,3; 200:1;202:20;203:13; 206:20;209:1;210:15, 17,17;212:7;213:18; 216:9,10,10;219:22; 220:13,15;223:1,2,4; 224:12,13;233:13; 234:4,4;238:15; 243:2,22;245:25;	148:9;291:15; 293:11 thoroughly (1) 198:17 thou (2) 84:21,21 Though (15) 16:11;54:4;57:18; 60:12;62:14;79:5; 82:14;100:9;109:18; 110:8,18;258:2; 266:25;298:1,21 thought (14) 33:23;45:2;83:14; 86:23;93:18;97:2; 125:3;171:2;185:14; 207:1;208:24;216:15; 219:13;241:11 thoughts (5) 93:3;154:18; 212:20;223:5;244:12 thousand (3) 52:19,21;264:19 thousands (6) 91:21,21,21;	132:25 thrive (1) 271:4 throughout (6) 101:7,25;178:23; 195:4,25;210:7 throughput (3) 57:11;64:7;253:12 throw (1) 250:14 throwaway (1) 7:2 tie (2) 234:25;266:5 tiered (2) 150:21;151:20 tight (2) 265:8;293:19 tightly (1) 80:5 TikTok (1) 217:20 tillage (3) 110:1;111:2;192:2 timeframes (1)
taught (1) 289:11 teach (2) 253:5;289:18 teaching (1) 268:2 team (27) 7:8;16:15;17:9; 18:5;20:13;23:12; 30:21;31:3,8,9,11; 32:14,18;52:19; 53:24;54:5;63:14; 87:1,4,13;98:10; 107:15;118:5;120:16; 189:11;224:17;225:4 tech (1) 19:3 technical (24) 17:22;38:1;71:7,10, 11;99:14;100:2; 102:13,13,18;104:4, 17;105:7;107:9; 109:7,11;110:14; 113:12;120:15; 160:22;161:21; 170:13;205:25;210:5	Tennessee (8) 100:8;103:9;134:5; 137:11,19;138:5,9; 139:14 tense (4) 45:11,11,12;82:20 tension (2) 178:9,9 tenure (2) 264:5;292:23 term (10) 25:4;50:17;85:5; 127:7;205:14;215:10; 216:15;221:5;235:20; 294:14 terminology (1) 161:10 terms (19) 41:15;77:25;80:4; 82:6;89:23;91:10; 105:24;107:16; 113:24;115:20;116:5; 120:5;135:9;148:14; 156:24;223:13,22; 226:3;245:7 terrible (1)	$\begin{array}{r} 19:3\\ \textbf{Thanks (112)}\\ 15:23;16:7;18:20,\\ 24;22:21;23:7,16,22;\\ 38:23;42:21;43:6;\\ 74:21;76:4;83:13;\\ 89:1,1;97:19;98:25;\\ 108:18;111:18,22;\\ 117:3;121:10;129:21;\\ 135:21;146:1;155:20;\\ 157:12;159:21;163:3,\\ 5,16;165:17,20;\\ 167:9;168:9;171:4;\\ 174:11;175:18;181:5;\\ 182:25;185:2;187:5;\\ 192:11;194:8;196:22;\\ 198:25;199:2,3;\\ 200:1;202:20;203:13;\\ 206:20;209:1;210:15,\\ 17,17;212:7;213:18;\\ 216:9,10,10;219:22;\\ 220:13,15;223:1,2,4;\\ 224:12,13;233:13;\\ 234:4,4;238:15;\\ 243:2,22;245:25;\\ 253:19;255:21;257:7;\\ \end{array}$	148:9;291:15; 293:11 thoroughly (1) 198:17 thou (2) 84:21,21 Though (15) 16:11;54:4;57:18; 60:12;62:14;79:5; 82:14;100:9;109:18; 110:8,18;258:2; 266:25;298:1,21 thought (14) 33:23;45:2;83:14; 86:23;93:18;97:2; 125:3;171:2;185:14; 207:1;208:24;216:15; 219:13;241:11 thoughts (5) 93:3;154:18; 212:20;223:5;244:12 thousand (3) 52:19,21;264:19 thousands (6) 91:21,21,21; 124:21;264:25;301:2	132:25 thrive (1) 271:4 throughout (6) 101:7,25;178:23; 195:4,25;210:7 throughput (3) 57:11;64:7;253:12 throw (1) 250:14 throwaway (1) 7:2 tie (2) 234:25;266:5 tiered (2) 150:21;151:20 tight (2) 265:8;293:19 tightly (1) 80:5 TikTok (1) 217:20 tillage (3) 110:1;111:2;192:2 timeframes (1) 151:4
taught (1) 289:11 teach (2) 253:5;289:18 teaching (1) 268:2 team (27) 7:8;16:15;17:9; 18:5;20:13;23:12; 30:21;31:3,8,9,11; 32:14,18;52:19; 53:24;54:5;63:14; 87:1,4,13;98:10; 107:15;118:5;120:16; 189:11;224:17;225:4 tech (1) 19:3 technical (24) 17:22;38:1;71:7,10, 11;99:14;100:2; 102:13,13,18;104:4, 17;105:7;107:9; 109:7,11;110:14; 113:12;120:15; 160:22;161:21; 170:13;205:25;210:5 techniques (2)	Tennessee (8) 100:8;103:9;134:5; 137:11,19;138:5,9; 139:14 tense (4) 45:11,11,12;82:20 tension (2) 178:9,9 tenure (2) 264:5;292:23 term (10) 25:4;50:17;85:5; 127:7;205:14;215:10; 216:15;221:5;235:20; 294:14 terminology (1) 161:10 terms (19) 41:15;77:25;80:4; 82:6;89:23;91:10; 105:24;107:16; 113:24;115:20;116:5; 120:5;135:9;148:14; 156:24;223:13,22; 226:3;245:7 terrible (1) 156:8	19:3 Thanks (112) 15:23;16:7;18:20, 24;22:21;23:7,16,22; 38:23;42:21;43:6; 74:21;76:4;83:13; 89:1,1;97:19;98:25; 108:18;111:18,22; 117:3;121:10;129:21; 135:21;146:1;155:20; 157:12;159:21;163:3, 5,16;165:17,20; 167:9;168:9;171:4; 174:11;175:18;181:5; 182:25;185:2;187:5; 192:11;194:8;196:22; 198:25;199:2,3; 200:1;202:20;203:13; 206:20;209:1;210:15, 17,17;212:7;213:18; 216:9,10,10;219:22; 220:13,15;223:1,2,4; 224:12,13;233:13; 234:4,4;238:15; 243:2,22;245:25; 253:19;255:21;257:7; 258:6,7,9;260:7,24;	148:9;291:15; 293:11 thoroughly (1) 198:17 thou (2) 84:21,21 Though (15) 16:11;54:4;57:18; 60:12;62:14;79:5; 82:14;100:9;109:18; 110:8,18;258:2; 266:25;298:1,21 thought (14) 33:23;45:2;83:14; 86:23;93:18;97:2; 125:3;171:2;185:14; 207:1;208:24;216:15; 219:13;241:11 thoughts (5) 93:3;154:18; 212:20;223:5;244:12 thousand (3) 52:19,21;264:19 thousands (6) 91:21,21,21; 124:21;264:25;301:2 threat (2)	132:25 thrive (1) 271:4 throughout (6) 101:7,25;178:23; 195:4,25;210:7 throughput (3) 57:11;64:7;253:12 throw (1) 250:14 throwaway (1) 7:2 tie (2) 234:25;266:5 tiered (2) 150:21;151:20 tight (2) 265:8;293:19 tightly (1) 80:5 TikTok (1) 217:20 tillage (3) 110:1;111:2;192:2 timeframes (1) 151:4 timeline (3)
taught (1) 289:11 teach (2) 253:5;289:18 teaching (1) 268:2 team (27) 7:8;16:15;17:9; 18:5;20:13;23:12; 30:21;31:3,8,9,11; 32:14,18;52:19; 53:24;54:5;63:14; 87:1,4,13;98:10; 107:15;118:5;120:16; 189:11;224:17;225:4 tech (1) 19:3 technical (24) 17:22;38:1;71:7,10, 11;99:14;100:2; 102:13,13,18;104:4, 17;105:7;107:9; 109:7,11;110:14; 113:12;120:15; 160:22;161:21; 170:13;205:25;210:5 techniques (2) 134:15;148:6	Tennessee (8) 100:8;103:9;134:5; 137:11,19;138:5,9; 139:14 tense (4) 45:11,11,12;82:20 tension (2) 178:9,9 tenure (2) 264:5;292:23 term (10) 25:4;50:17;85:5; 127:7;205:14;215:10; 216:15;221:5;235:20; 294:14 terminology (1) 161:10 terms (19) 41:15;77:25;80:4; 82:6;89:23;91:10; 105:24;107:16; 113:24;115:20;116:5; 120:5;135:9;148:14; 156:24;223:13,22; 226:3;245:7 terrible (1) 156:8 terrific (1)	19:3 Thanks (112) 15:23;16:7;18:20, 24;22:21;23:7,16,22; 38:23;42:21;43:6; 74:21;76:4;83:13; 89:1,1;97:19;98:25; 108:18;111:18,22; 117:3;121:10;129:21; 135:21;146:1;155:20; 157:12;159:21;163:3, 5,16;165:17,20; 167:9;168:9;171:4; 174:11;175:18;181:5; 182:25;185:2;187:5; 192:11;194:8;196:22; 198:25;199:2,3; 200:1;202:20;203:13; 206:20;209:1;210:15, 17,17;212:7;213:18; 216:9,10,10;219:22; 220:13,15;223:1,2,4; 224:12,13;233:13; 234:4,4;238:15; 243:2,22;245:25; 253:19;255:21;257:7; 258:6,7,9;260:7,24; 263:8,8;265:6;	148:9;291:15; 293:11 thoroughly (1) 198:17 thou (2) 84:21,21 Though (15) 16:11;54:4;57:18; 60:12;62:14;79:5; 82:14;100:9;109:18; 110:8,18;258:2; 266:25;298:1,21 thought (14) 33:23;45:2;83:14; 86:23;93:18;97:2; 125:3;171:2;185:14; 207:1;208:24;216:15; 219:13;241:11 thoughts (5) 93:3;154:18; 212:20;223:5;244:12 thousand (3) 52:19,21;264:19 thousands (6) 91:21,21,21; 124:21;264:25;301:2 threat (2) 141:9;230:16	132:25 thrive (1) 271:4 throughout (6) 101:7,25;178:23; 195:4,25;210:7 throughput (3) 57:11;64:7;253:12 throw (1) 250:14 throwaway (1) 7:2 tie (2) 234:25;266:5 tiered (2) 150:21;151:20 tight (2) 265:8;293:19 tightly (1) 80:5 TikTok (1) 217:20 tillage (3) 110:1;111:2;192:2 timeframes (1) 151:4 timeline (3) 54:10;283:4;285:1
taught (1) 289:11 teach (2) 253:5;289:18 teaching (1) 268:2 team (27) 7:8;16:15;17:9; 18:5;20:13;23:12; 30:21;31:3,8,9,11; 32:14,18;52:19; 53:24;54:5;63:14; 87:1,4,13;98:10; 107:15;118:5;120:16; 189:11;224:17;225:4 tech (1) 19:3 technical (24) 17:22;38:1;71:7,10, 11;99:14;100:2; 102:13,13,18;104:4, 17;105:7;107:9; 109:7,11;110:14; 113:12;120:15; 160:22;161:21; 170:13;205:25;210:5 techniques (2) 134:15;148:6 technologies (4)	Tennessee (8) 100:8;103:9;134:5; 137:11,19;138:5,9; 139:14 tense (4) 45:11,11,12;82:20 tension (2) 178:9,9 tenure (2) 264:5;292:23 term (10) 25:4;50:17;85:5; 127:7;205:14;215:10; 216:15;221:5;235:20; 294:14 terminology (1) 161:10 terms (19) 41:15;77:25;80:4; 82:6;89:23;91:10; 105:24;107:16; 113:24;115:20;116:5; 120:5;135:9;148:14; 156:24;223:13,22; 226:3;245:7 terrible (1) 156:8 terrific (1) 73:1	19:3 Thanks (112) 15:23;16:7;18:20, 24;22:21;23:7,16,22; 38:23;42:21;43:6; 74:21;76:4;83:13; 89:1,1;97:19;98:25; 108:18;111:18,22; 117:3;121:10;129:21; 135:21;146:1;155:20; 157:12;159:21;163:3, 5,16;165:17,20; 167:9;168:9;171:4; 174:11;175:18;181:5; 182:25;185:2;187:5; 192:11;194:8;196:22; 198:25;199:2,3; 200:1;202:20;203:13; 206:20;209:1;210:15, 17,17;212:7;213:18; 216:9,10,10;219:22; 220:13,15;223:1,2,4; 224:12,13;233:13; 234:4,4;238:15; 243:2,22;245:25; 253:19;255:21;257:7; 258:6,7,9;260:7,24; 268:25;271:14,16;	148:9;291:15; 293:11 thoroughly (1) 198:17 thou (2) 84:21,21 Though (15) 16:11;54:4;57:18; 60:12;62:14;79:5; 82:14;100:9;109:18; 110:8,18;258:2; 266:25;298:1,21 thought (14) 33:23;45:2;83:14; 86:23;93:18;97:2; 125:3;171:2;185:14; 207:1;208:24;216:15; 219:13;241:11 thoughts (5) 93:3;154:18; 212:20;223:5;244:12 thousand (3) 52:19,21;264:19 thousands (6) 91:21,21,21; 124:21;264:25;301:2 threat (2) 141:9;230:16 threaten (1)	132:25 thrive (1) 271:4 throughout (6) 101:7,25;178:23; 195:4,25;210:7 throughput (3) 57:11;64:7;253:12 throw (1) 250:14 throwaway (1) 7:2 tie (2) 234:25;266:5 tiered (2) 150:21;151:20 tight (2) 265:8;293:19 tightly (1) 80:5 TikTok (1) 217:20 tillage (3) 110:1;111:2;192:2 timeframes (1) 151:4 timeline (3) 54:10;283:4;285:1 timely (1)
taught (1) 289:11 teach (2) 253:5;289:18 teaching (1) 268:2 team (27) 7:8;16:15;17:9; 18:5;20:13;23:12; 30:21;31:3,8,9,11; 32:14,18;52:19; 53:24;54:5;63:14; 87:1,4,13;98:10; 107:15;118:5;120:16; 189:11;224:17;225:4 tech (1) 19:3 technical (24) 17:22;38:1;71:7,10, 11;99:14;100:2; 102:13,13,18;104:4, 17;105:7;107:9; 109:7,11;110:14; 113:12;120:15; 160:22;161:21; 170:13;205:25;210:5 techniques (2) 134:15;148:6 technologies (4) 175:5;274:6;	Tennessee (8) 100:8;103:9;134:5; 137:11,19;138:5,9; 139:14 tense (4) 45:11,11,12;82:20 tension (2) 178:9,9 tenure (2) 264:5;292:23 term (10) 25:4;50:17;85:5; 127:7;205:14;215:10; 216:15;221:5;235:20; 294:14 terminology (1) 161:10 terms (19) 41:15;77:25;80:4; 82:6;89:23;91:10; 105:24;107:16; 113:24;115:20;116:5; 120:5;135:9;148:14; 156:24;223:13,22; 226:3;245:7 terrible (1) 156:8 terrific (1)	19:3 Thanks (112) 15:23;16:7;18:20, 24;22:21;23:7,16,22; 38:23;42:21;43:6; 74:21;76:4;83:13; 89:1,1;97:19;98:25; 108:18;111:18,22; 117:3;121:10;129:21; 135:21;146:1;155:20; 157:12;159:21;163:3, 5,16;165:17,20; 167:9;168:9;171:4; 174:11;175:18;181:5; 182:25;185:2;187:5; 192:11;194:8;196:22; 198:25;199:2,3; 200:1;202:20;203:13; 206:20;209:1;210:15, 17,17;212:7;213:18; 216:9,10,10;219:22; 220:13,15;223:1,2,4; 224:12,13;233:13; 234:4,4;238:15; 243:2,2;245:25; 253:19;255:21;257:7; 258:6,7,9;260:7,24; 268:25;271:14,16; 272:10;275:4,7;	148:9;291:15; 293:11 thoroughly (1) 198:17 thou (2) 84:21,21 Though (15) 16:11;54:4;57:18; 60:12;62:14;79:5; 82:14;100:9;109:18; 110:8,18;258:2; 266:25;298:1,21 thought (14) 33:23;45:2;83:14; 86:23;93:18;97:2; 125:3;171:2;185:14; 207:1;208:24;216:15; 219:13;241:11 thoughts (5) 93:3;154:18; 212:20;223:5;244:12 thousand (3) 52:19,21;264:19 thousands (6) 91:21,21,21; 124:21;264:25;301:2 threat (2) 141:9;230:16 threaten (1) 273:3	132:25 thrive (1) 271:4 throughout (6) 101:7,25;178:23; 195:4,25;210:7 throughput (3) 57:11;64:7;253:12 throw (1) 250:14 throwaway (1) 7:2 tie (2) 234:25;266:5 tiered (2) 150:21;151:20 tight (2) 265:8;293:19 tightly (1) 80:5 TikTok (1) 217:20 tillage (3) 110:1;111:2;192:2 timeframes (1) 151:4 timeline (3) 54:10;283:4;285:1 timely (1) 39:3
taught (1) 289:11 teach (2) 253:5;289:18 teaching (1) 268:2 team (27) 7:8;16:15;17:9; 18:5;20:13;23:12; 30:21;31:3,8,9,11; 32:14,18;52:19; 53:24;54:5;63:14; 87:1,4,13;98:10; 107:15;118:5;120:16; 189:11;224:17;225:4 tech (1) 19:3 technical (24) 17:22;38:1;71:7,10, 11;99:14;100:2; 102:13,13,18;104:4, 17;105:7;107:9; 109:7,11;110:14; 113:12;120:15; 160:22;161:21; 170:13;205:25;210:5 techniques (2) 134:15;148:6 technologies (4)	Tennessee (8) 100:8;103:9;134:5; 137:11,19;138:5,9; 139:14 tense (4) 45:11,11,12;82:20 tension (2) 178:9,9 tenure (2) 264:5;292:23 term (10) 25:4;50:17;85:5; 127:7;205:14;215:10; 216:15;221:5;235:20; 294:14 terminology (1) 161:10 terms (19) 41:15;77:25;80:4; 82:6;89:23;91:10; 105:24;107:16; 113:24;115:20;116:5; 120:5;135:9;148:14; 156:24;223:13,22; 226:3;245:7 terrible (1) 156:8 terrific (1) 73:1	19:3 Thanks (112) 15:23;16:7;18:20, 24;22:21;23:7,16,22; 38:23;42:21;43:6; 74:21;76:4;83:13; 89:1,1;97:19;98:25; 108:18;111:18,22; 117:3;121:10;129:21; 135:21;146:1;155:20; 157:12;159:21;163:3, 5,16;165:17,20; 167:9;168:9;171:4; 174:11;175:18;181:5; 182:25;185:2;187:5; 192:11;194:8;196:22; 198:25;199:2,3; 200:1;202:20;203:13; 206:20;209:1;210:15, 17,17;212:7;213:18; 216:9,10,10;219:22; 220:13,15;223:1,2,4; 224:12,13;233:13; 234:4,4;238:15; 243:2,22;245:25; 253:19;255:21;257:7; 258:6,7,9;260:7,24; 268:25;271:14,16;	148:9;291:15; 293:11 thoroughly (1) 198:17 thou (2) 84:21,21 Though (15) 16:11;54:4;57:18; 60:12;62:14;79:5; 82:14;100:9;109:18; 110:8,18;258:2; 266:25;298:1,21 thought (14) 33:23;45:2;83:14; 86:23;93:18;97:2; 125:3;171:2;185:14; 207:1;208:24;216:15; 219:13;241:11 thoughts (5) 93:3;154:18; 212:20;223:5;244:12 thousand (3) 52:19,21;264:19 thousands (6) 91:21,21,21; 124:21;264:25;301:2 threat (2) 141:9;230:16 threaten (1)	132:25 thrive (1) 271:4 throughout (6) 101:7,25;178:23; 195:4,25;210:7 throughput (3) 57:11;64:7;253:12 throw (1) 250:14 throwaway (1) 7:2 tie (2) 234:25;266:5 tiered (2) 150:21;151:20 tight (2) 265:8;293:19 tightly (1) 80:5 TikTok (1) 217:20 tillage (3) 110:1;111:2;192:2 timeframes (1) 151:4 timeline (3) 54:10;283:4;285:1 timely (1)

spring 2024 Wreeting		I	I	April 29, 2024
142.00	275.17.270.22	ton computer (1)		1(0.24
143:6,9	275:17;279:22	topography (1)	TPP (4)	160:24
times (14)	told (10)	298:16	71:14,19,19;161:8	Transcripts (1)
11:16;13:7;14:16;	16:9;24:4;41:20;	TOPP (76)	TR (2)	6:20
15:7;55:18;70:1;	52:19;58:2;67:12;	7:14;18:8,11;45:6;	170:2,3	transdermally (1)
151:22;158:13;179:3;	98:9;120:21;123:25;	70:16,16,20;71:13;	traceability (4)	296:9
195:25;248:15;	170:25	74:13;75:16,17,22;	45:15;53:18;65:25;	transfer (2)
256:25;264:17;284:2	tolerance (1)	95:8,9,14,15,20;97:6,	222:11	76:13;127:8
timing (3)	173:24	12;98:9,15;99:1,6,7,	traced (2)	transform (2)
31:4;69:25;70:2	tolerances (1)	16,25,25;100:5,9;	35:12;36:14	208:21;265:21
tinctures (3)	173:23	102:12,21,22;103:3;	TRACES (1)	transformation (1)
295:17,18,22	Tom (2)	105:7,25;106:17,22;	81:4	133:13
tiny (3)	114:19,21	108:13,23;109:6;	track (4)	transforming (1)
32:14;237:18;252:9	Tomorrow (3)	110:7,15;111:14;	42:1;192:16;238:8;	209:15
tipping (1)	7:17;301:20,23	112:18;113:6,7,25;	290:11	Transition (60)
268:15	Tom's (1)	114:13,24,24;117:9,	Tracker (3)	7:13;15:1;18:8,13;
tips (1)	115:1	22,24;118:22;120:9,	224:17,18;237:6	21:18;22:20;26:10;
191:15	ton (4)	24;121:4;122:23;	tracking (6)	62:8;67:20;70:14;
tirelessly (1)	177:12,17,21;181:2	125:2;129:22;134:9;	42:3;54:5,13;	71:23,25;72:1;74:2,3,
189:6	tons (3)	137:8;139:18;140:3,	102:18;146:3;286:20	4,11,13,15;97:12;
tissue (1)	169:8;179:14,14	5,8,13;141:9,17,21;	tractor (2)	98:9;100:4;103:6,12;
273:11	Tony (1)	186:17;190:11;	21:25:215:25	107:20;109:14,20;
			,	
tissues (1)	13:19	191:18;194:20;	Trade (31)	110:5;113:11,13;
229:7	took (7)	196:11;284:19	7:6,23;8:1;48:11;	114:2,14;116:2,14;
today (81)	63:12;73:17;97:2;	TOPS (1)	50:2,20;56:10,14;	117:13;118:3;119:7,
6:19;9:8;10:20;	151:13;187:24;203:4;	299:23	61:16;62:17;67:17;	17;123:7;133:4,9;
16:16;18:11;19:1,20;	261:22	tornadoes (1)	68:21,22;69:3;80:25;	139:20;140:6,23;
27:19;32:13,17,17;	tool (5)	29:3	81:19,20,21;82:2,4,6,	141:11;163:7,14;
44:22;45:1,5;70:19;	162:16;209:17;	total (13)	16;83:3;89:24;90:5,	189:7;190:23;194:23;
87:10;95:20;98:17;	232:23;262:1;263:20	10:25;11:2;55:3;	16;112:20;171:22;	195:1;196:11;201:10;
99:5;103:4,14;109:6;	toolbox (5)	79:19;80:21;109:21;	220:20;223:21;	202:21,24;222:1;
117:13;118:8;124:12;	183:16;209:17;	123:21;149:3;157:18;	286:14	228:17,24,25;277:15
146.10.147.12.				
146:19;147:13;	219:13,14;231:15	158:2;175:1;252:9;	trademark (5)	transitional (7)
160:11,19;164:15;	Toolkit (12)	158:2;175:1;252:9; 276:22	trademark (5) 91:16,18;92:1,7;	transitional (7) 45:6;71:14;72:5,9,
160:11,19;164:15; 165:17;166:4;168:19;	Toolkit (12) 30:15,17;34:20,20,	276:22 totally (4)	91:16,18;92:1,7; 159:20	45:6;71:14;72:5,9, 11;111:3;161:7
160:11,19;164:15; 165:17;166:4;168:19; 173:8;176:3;181:6;	Toolkit (12) 30:15,17;34:20,20, 24,25;35:2;38:14;	276:22 totally (4) 40:20;124:1;	91:16,18;92:1,7; 159:20 trademarked (2)	45:6;71:14;72:5,9, 11;111:3;161:7 transitioned (3)
160:11,19;164:15; 165:17;166:4;168:19; 173:8;176:3;181:6; 183:8,12;189:5,15;	Toolkit (12) 30:15,17;34:20,20, 24,25;35:2;38:14; 42:5;45:22;73:3;	276:22 totally (4) 40:20;124:1; 158:15;214:23	91:16,18;92:1,7; 159:20 trademarked (2) 35:21;159:23	45:6;71:14;72:5,9, 11;111:3;161:7 transitioned (3) 194:24;263:16,19
160:11,19;164:15; 165:17;166:4;168:19; 173:8;176:3;181:6; 183:8,12;189:5,15; 192:11;195:9;196:23;	Toolkit (12) 30:15,17;34:20,20, 24,25;35:2;38:14; 42:5;45:22;73:3; 210:25	276:22 totally (4) 40:20;124:1; 158:15;214:23 touch (7)	91:16,18;92:1,7; 159:20 trademarked (2) 35:21;159:23 trademarks (2)	45:6;71:14;72:5,9, 11;111:3;161:7 transitioned (3) 194:24;263:16,19 transitioning (24)
160:11,19;164:15; 165:17;166:4;168:19; 173:8;176:3;181:6; 183:8,12;189:5,15; 192:11;195:9;196:23; 197:24;199:3;200:2,	Toolkit (12) 30:15,17;34:20,20, 24,25;35:2;38:14; 42:5;45:22;73:3; 210:25 tools (8)	276:22 totally (4) 40:20;124:1; 158:15;214:23 touch (7) 30:16;40:22;79:11;	91:16,18;92:1,7; 159:20 trademarked (2) 35:21;159:23 trademarks (2) 92:9;239:6	45:6;71:14;72:5,9, 11;111:3;161:7 transitioned (3) 194:24;263:16,19 transitioning (24) 22:13;70:22;74:6;
160:11,19;164:15; 165:17;166:4;168:19; 173:8;176:3;181:6; 183:8,12;189:5,15; 192:11;195:9;196:23; 197:24;199:3;200:2, 7;203:13;206:25;	Toolkit (12) 30:15,17;34:20,20, 24,25;35:2;38:14; 42:5;45:22;73:3; 210:25 tools (8) 50:14;105:4;	276:22 totally (4) 40:20;124:1; 158:15;214:23 touch (7) 30:16;40:22;79:11; 135:11;168:19;	91:16,18;92:1,7; 159:20 trademarked (2) 35:21;159:23 trademarks (2) 92:9;239:6 trading (1)	45:6;71:14;72:5,9, 11;111:3;161:7 transitioned (3) 194:24;263:16,19 transitioning (24) 22:13;70:22;74:6; 107:4;118:24;119:23;
160:11,19;164:15; 165:17;166:4;168:19; 173:8;176:3;181:6; 183:8,12;189:5,15; 192:11;195:9;196:23; 197:24;199:3;200:2, 7;203:13;206:25; 208:23;210:19,23;	Toolkit (12) 30:15,17;34:20,20, 24,25;35:2;38:14; 42:5;45:22;73:3; 210:25 tools (8) 50:14;105:4; 184:23;200:17;228:4,	276:22 totally (4) 40:20;124:1; 158:15;214:23 touch (7) 30:16;40:22;79:11; 135:11;168:19; 169:10;269:18	91:16,18;92:1,7; 159:20 trademarked (2) 35:21;159:23 trademarks (2) 92:9;239:6 trading (1) 179:8	45:6;71:14;72:5,9, 11;111:3;161:7 transitioned (3) 194:24;263:16,19 transitioning (24) 22:13;70:22;74:6; 107:4;118:24;119:23; 121:22;123:21;129:4,
160:11,19;164:15; 165:17;166:4;168:19; 173:8;176:3;181:6; 183:8,12;189:5,15; 192:11;195:9;196:23; 197:24;199:3;200:2, 7;203:13;206:25; 208:23;210:19,23; 211:1;215:2;216:10,	Toolkit (12) 30:15,17;34:20,20, 24,25;35:2;38:14; 42:5;45:22;73:3; 210:25 tools (8) 50:14;105:4; 184:23;200:17;228:4, 19;230:2;296:22	276:22 totally (4) 40:20;124:1; 158:15;214:23 touch (7) 30:16;40:22;79:11; 135:11;168:19; 169:10;269:18 touched (3)	91:16,18;92:1,7; 159:20 trademarked (2) 35:21;159:23 trademarks (2) 92:9;239:6 trading (1) 179:8 traditional (3)	45:6;71:14;72:5,9, 11;111:3;161:7 transitioned (3) 194:24;263:16,19 transitioning (24) 22:13;70:22;74:6; 107:4;118:24;119:23; 121:22;123:21;129:4, 10,16;140:16,17;
160:11,19;164:15; 165:17;166:4;168:19; 173:8;176:3;181:6; 183:8,12;189:5,15; 192:11;195:9;196:23; 197:24;199:3;200:2, 7;203:13;206:25; 208:23;210:19,23;	Toolkit (12) 30:15,17;34:20,20, 24,25;35:2;38:14; 42:5;45:22;73:3; 210:25 tools (8) 50:14;105:4; 184:23;200:17;228:4,	276:22 totally (4) 40:20;124:1; 158:15;214:23 touch (7) 30:16;40:22;79:11; 135:11;168:19; 169:10;269:18	91:16,18;92:1,7; 159:20 trademarked (2) 35:21;159:23 trademarks (2) 92:9;239:6 trading (1) 179:8	45:6;71:14;72:5,9, 11;111:3;161:7 transitioned (3) 194:24;263:16,19 transitioning (24) 22:13;70:22;74:6; 107:4;118:24;119:23; 121:22;123:21;129:4,
160:11,19;164:15; 165:17;166:4;168:19; 173:8;176:3;181:6; 183:8,12;189:5,15; 192:11;195:9;196:23; 197:24;199:3;200:2, 7;203:13;206:25; 208:23;210:19,23; 211:1;215:2;216:10, 17;219:21;224:17;	Toolkit (12) 30:15,17;34:20,20, 24,25;35:2;38:14; 42:5;45:22;73:3; 210:25 tools (8) 50:14;105:4; 184:23;200:17;228:4, 19;230:2;296:22 to-one (3)	276:22 totally (4) 40:20;124:1; 158:15;214:23 touch (7) 30:16;40:22;79:11; 135:11;168:19; 169:10;269:18 touched (3) 102:20;235:25;	91:16,18;92:1,7; 159:20 trademarked (2) 35:21;159:23 trademarks (2) 92:9;239:6 trading (1) 179:8 traditional (3) 101:7;134:16;	45:6;71:14;72:5,9, 11;111:3;161:7 transitioned (3) 194:24;263:16,19 transitioning (24) 22:13;70:22;74:6; 107:4;118:24;119:23; 121:22;123:21;129:4, 10,16;140:16,17; 161:4;163:8,13;
160:11,19;164:15; 165:17;166:4;168:19; 173:8;176:3;181:6; 183:8,12;189:5,15; 192:11;195:9;196:23; 197:24;199:3;200:2, 7;203:13;206:25; 208:23;210:19,23; 211:1;215:2;216:10, 17;219:21;224:17; 231:21;232:3;239:3;	Toolkit (12) 30:15,17;34:20,20, 24,25;35:2;38:14; 42:5;45:22;73:3; 210:25 tools (8) 50:14;105:4; 184:23;200:17;228:4, 19;230:2;296:22 to-one (3) 102:14;138:25;	276:22 totally (4) 40:20;124:1; 158:15;214:23 touch (7) 30:16;40:22;79:11; 135:11;168:19; 169:10;269:18 touched (3) 102:20;235:25; 286:18	91:16,18;92:1,7; 159:20 trademarked (2) 35:21;159:23 trademarks (2) 92:9;239:6 trading (1) 179:8 traditional (3) 101:7;134:16; 135:19	45:6;71:14;72:5,9, 11;111:3;161:7 transitioned (3) 194:24;263:16,19 transitioning (24) 22:13;70:22;74:6; 107:4;118:24;119:23; 121:22;123:21;129:4, 10,16;140:16,17; 161:4;163:8,13; 189:12,18;190:8,22;
160:11,19;164:15; 165:17;166:4;168:19; 173:8;176:3;181:6; 183:8,12;189:5,15; 192:11;195:9;196:23; 197:24;199:3;200:2, 7;203:13;206:25; 208:23;210:19,23; 211:1;215:2;216:10, 17;219:21;224:17; 231:21;232:3;239:3; 247:23;257:11;	Toolkit (12) 30:15,17;34:20,20, 24,25;35:2;38:14; 42:5;45:22;73:3; 210:25 tools (8) 50:14;105:4; 184:23;200:17;228:4, 19;230:2;296:22 to-one (3) 102:14;138:25; 245:12	276:22 totally (4) 40:20;124:1; 158:15;214:23 touch (7) 30:16;40:22;79:11; 135:11;168:19; 169:10;269:18 touched (3) 102:20;235:25; 286:18 tough (3)	91:16,18;92:1,7; 159:20 trademarked (2) 35:21;159:23 trademarks (2) 92:9;239:6 trading (1) 179:8 traditional (3) 101:7;134:16; 135:19 traditional-minded (1)	45:6;71:14;72:5,9, 11;111:3;161:7 transitioned (3) 194:24;263:16,19 transitioning (24) 22:13;70:22;74:6; 107:4;118:24;119:23; 121:22;123:21;129:4, 10,16;140:16,17; 161:4;163:8,13; 189:12,18;190:8,22; 191:11;194:4,5;
160:11,19;164:15; 165:17;166:4;168:19; 173:8;176:3;181:6; 183:8,12;189:5,15; 192:11;195:9;196:23; 197:24;199:3;200:2, 7;203:13;206:25; 208:23;210:19,23; 211:1;215:2;216:10, 17;219:21;224:17; 231:21;232:3;239:3; 247:23;257:11; 260:12;263:9,12;	Toolkit (12) 30:15,17;34:20,20, 24,25;35:2;38:14; 42:5;45:22;73:3; 210:25 tools (8) 50:14;105:4; 184:23;200:17;228:4, 19;230:2;296:22 to-one (3) 102:14;138:25; 245:12 top (19)	276:22 totally (4) 40:20;124:1; 158:15;214:23 touch (7) 30:16;40:22;79:11; 135:11;168:19; 169:10;269:18 touched (3) 102:20;235:25; 286:18 tough (3) 14:16;73:12;244:20	91:16,18;92:1,7; 159:20 trademarked (2) 35:21;159:23 trademarks (2) 92:9;239:6 trading (1) 179:8 traditional (3) 101:7;134:16; 135:19 traditional-minded (1) 134:1	45:6;71:14;72:5,9, 11;111:3;161:7 transitioned (3) 194:24;263:16,19 transitioning (24) 22:13;70:22;74:6; 107:4;118:24;119:23; 121:22;123:21;129:4, 10,16;140:16,17; 161:4;163:8,13; 189:12,18;190:8,22; 191:11;194:4,5; 196:14
160:11,19;164:15; 165:17;166:4;168:19; 173:8;176:3;181:6; 183:8,12;189:5,15; 192:11;195:9;196:23; 197:24;199:3;200:2, 7;203:13;206:25; 208:23;210:19,23; 211:1;215:2;216:10, 17;219:21;224:17; 231:21;232:3;239:3; 247:23;257:11; 260:12;263:9,12; 265:6;268:25;269:17,	Toolkit (12) 30:15,17;34:20,20, 24,25;35:2;38:14; 42:5;45:22;73:3; 210:25 tools (8) 50:14;105:4; 184:23;200:17;228:4, 19;230:2;296:22 to-one (3) 102:14;138:25; 245:12 top (19) 10:13;46:21;49:10;	276:22 totally (4) 40:20;124:1; 158:15;214:23 touch (7) 30:16;40:22;79:11; 135:11;168:19; 169:10;269:18 touched (3) 102:20;235:25; 286:18 tough (3) 14:16;73:12;244:20 tour (1)	91:16,18;92:1,7; 159:20 trademarked (2) 35:21;159:23 trademarks (2) 92:9;239:6 trading (1) 179:8 traditional (3) 101:7;134:16; 135:19 traditional-minded (1) 134:1 trailer (3)	45:6;71:14;72:5,9, 11;111:3;161:7 transitioned (3) 194:24;263:16,19 transitioning (24) 22:13;70:22;74:6; 107:4;118:24;119:23; 121:22;123:21;129:4, 10,16;140:16,17; 161:4;163:8,13; 189:12,18;190:8,22; 191:11;194:4,5; 196:14 translated (1)
160:11,19;164:15; 165:17;166:4;168:19; 173:8;176:3;181:6; 183:8,12;189:5,15; 192:11;195:9;196:23; 197:24;199:3;200:2, 7;203:13;206:25; 208:23;210:19,23; 211:1;215:2;216:10, 17;219:21;224:17; 231:21;232:3;239:3; 247:23;257:11; 260:12;263:9,12; 265:6;268:25;269:17, 23;272:18;275:3;	Toolkit (12) 30:15,17;34:20,20, 24,25;35:2;38:14; 42:5;45:22;73:3; 210:25 tools (8) 50:14;105:4; 184:23;200:17;228:4, 19;230:2;296:22 to-one (3) 102:14;138:25; 245:12 top (19) 10:13;46:21;49:10; 51:2;57:12;66:17;	276:22 totally (4) 40:20;124:1; 158:15;214:23 touch (7) 30:16;40:22;79:11; 135:11;168:19; 169:10;269:18 touched (3) 102:20;235:25; 286:18 tough (3) 14:16;73:12;244:20 tour (1) 118:17	91:16,18;92:1,7; 159:20 trademarked (2) 35:21;159:23 trademarks (2) 92:9;239:6 trading (1) 179:8 traditional (3) 101:7;134:16; 135:19 traditional-minded (1) 134:1 trailer (3) 83:20;281:14;	45:6;71:14;72:5,9, 11;111:3;161:7 transitioned (3) 194:24;263:16,19 transitioning (24) 22:13;70:22;74:6; 107:4;118:24;119:23; 121:22;123:21;129:4, 10,16;140:16,17; 161:4;163:8,13; 189:12,18;190:8,22; 191:11;194:4,5; 196:14 translated (1) 211:9
$\begin{array}{c} 160:11,19;164:15;\\ 165:17;166:4;168:19;\\ 173:8;176:3;181:6;\\ 183:8,12;189:5,15;\\ 192:11;195:9;196:23;\\ 197:24;199:3;200:2,\\ 7;203:13;206:25;\\ 208:23;210:19,23;\\ 211:1;215:2;216:10,\\ 17;219:21;224:17;\\ 231:21;232:3;239:3;\\ 247:23;257:11;\\ 260:12;263:9,12;\\ 265:6;268:25;269:17,\\ 23;272:18;275:3;\\ 282:2,9;286:6;\\ \end{array}$	Toolkit (12) 30:15,17;34:20,20, 24,25;35:2;38:14; 42:5;45:22;73:3; 210:25 tools (8) 50:14;105:4; 184:23;200:17;228:4, 19;230:2;296:22 to-one (3) 102:14;138:25; 245:12 top (19) 10:13;46:21;49:10; 51:2;57:12;66:17; 106:7;177:3,23;	276:22 totally (4) 40:20;124:1; 158:15;214:23 touch (7) 30:16;40:22;79:11; 135:11;168:19; 169:10;269:18 touched (3) 102:20;235:25; 286:18 tough (3) 14:16;73:12;244:20 tour (1) 118:17 Tourism (2)	91:16,18;92:1,7; 159:20 trademarked (2) 35:21;159:23 trademarks (2) 92:9;239:6 trading (1) 179:8 traditional (3) 101:7;134:16; 135:19 traditional-minded (1) 134:1 trailer (3) 83:20;281:14; 283:16	45:6;71:14;72:5,9, 11;111:3;161:7 transitioned (3) 194:24;263:16,19 transitioning (24) 22:13;70:22;74:6; 107:4;118:24;119:23; 121:22;123:21;129:4, 10,16;140:16,17; 161:4;163:8,13; 189:12,18;190:8,22; 191:11;194:4,5; 196:14 translated (1) 211:9 translation (1)
$\begin{array}{c} 160:11,19;164:15;\\ 165:17;166:4;168:19;\\ 173:8;176:3;181:6;\\ 183:8,12;189:5,15;\\ 192:11;195:9;196:23;\\ 197:24;199:3;200:2,\\ 7;203:13;206:25;\\ 208:23;210:19,23;\\ 211:1;215:2;216:10,\\ 17;219:21;224:17;\\ 231:21;232:3;239:3;\\ 247:23;257:11;\\ 260:12;263:9,12;\\ 265:6;268:25;269:17,\\ 23;272:18;275:3;\\ 282:2,9;286:6;\\ 290:17;293:21;295:1,\\ \end{array}$	Toolkit (12) 30:15,17;34:20,20, 24,25;35:2;38:14; 42:5;45:22;73:3; 210:25 tools (8) 50:14;105:4; 184:23;200:17;228:4, 19;230:2;296:22 to-one (3) 102:14;138:25; 245:12 top (19) 10:13;46:21;49:10; 51:2;57:12;66:17; 106:7;177:3,23; 178:1;199:20;200:14;	276:22 totally (4) 40:20;124:1; 158:15;214:23 touch (7) 30:16;40:22;79:11; 135:11;168:19; 169:10;269:18 touched (3) 102:20;235:25; 286:18 tough (3) 14:16;73:12;244:20 tour (1) 118:17 Tourism (2) 9:21;15:25	91:16,18;92:1,7; 159:20 trademarked (2) 35:21;159:23 trademarks (2) 92:9;239:6 trading (1) 179:8 traditional (3) 101:7;134:16; 135:19 traditional-minded (1) 134:1 trailer (3) 83:20;281:14; 283:16 train (1)	45:6;71:14;72:5,9, 11;111:3;161:7 transitioned (3) 194:24;263:16,19 transitioning (24) 22:13;70:22;74:6; 107:4;118:24;119:23; 121:22;123:21;129:4, 10,16;140:16,17; 161:4;163:8,13; 189:12,18;190:8,22; 191:11;194:4,5; 196:14 translated (1) 211:9 translation (1) 205:24
$\begin{array}{c} 160:11,19;164:15;\\ 165:17;166:4;168:19;\\ 173:8;176:3;181:6;\\ 183:8,12;189:5,15;\\ 192:11;195:9;196:23;\\ 197:24;199:3;200:2,\\ 7;203:13;206:25;\\ 208:23;210:19,23;\\ 211:1;215:2;216:10,\\ 17;219:21;224:17;\\ 231:21;232:3;239:3;\\ 247:23;257:11;\\ 260:12;263:9,12;\\ 265:6;268:25;269:17,\\ 23;272:18;275:3;\\ 282:2,9;286:6;\\ \end{array}$	Toolkit (12) 30:15,17;34:20,20, 24,25;35:2;38:14; 42:5;45:22;73:3; 210:25 tools (8) 50:14;105:4; 184:23;200:17;228:4, 19;230:2;296:22 to-one (3) 102:14;138:25; 245:12 top (19) 10:13;46:21;49:10; 51:2;57:12;66:17; 106:7;177:3,23;	276:22 totally (4) 40:20;124:1; 158:15;214:23 touch (7) 30:16;40:22;79:11; 135:11;168:19; 169:10;269:18 touched (3) 102:20;235:25; 286:18 tough (3) 14:16;73:12;244:20 tour (1) 118:17 Tourism (2)	91:16,18;92:1,7; 159:20 trademarked (2) 35:21;159:23 trademarks (2) 92:9;239:6 trading (1) 179:8 traditional (3) 101:7;134:16; 135:19 traditional-minded (1) 134:1 trailer (3) 83:20;281:14; 283:16	45:6;71:14;72:5,9, 11;111:3;161:7 transitioned (3) 194:24;263:16,19 transitioning (24) 22:13;70:22;74:6; 107:4;118:24;119:23; 121:22;123:21;129:4, 10,16;140:16,17; 161:4;163:8,13; 189:12,18;190:8,22; 191:11;194:4,5; 196:14 translated (1) 211:9 translation (1)
$\begin{array}{c} 160:11,19;164:15;\\ 165:17;166:4;168:19;\\ 173:8;176:3;181:6;\\ 183:8,12;189:5,15;\\ 192:11;195:9;196:23;\\ 197:24;199:3;200:2,\\ 7;203:13;206:25;\\ 208:23;210:19,23;\\ 211:1;215:2;216:10,\\ 17;219:21;224:17;\\ 231:21;232:3;239:3;\\ 247:23;257:11;\\ 260:12;263:9,12;\\ 265:6;268:25;269:17,\\ 23;272:18;275:3;\\ 282:2,9;286:6;\\ 290:17;293:21;295:1,\\ \end{array}$	Toolkit (12) 30:15,17;34:20,20, 24,25;35:2;38:14; 42:5;45:22;73:3; 210:25 tools (8) 50:14;105:4; 184:23;200:17;228:4, 19;230:2;296:22 to-one (3) 102:14;138:25; 245:12 top (19) 10:13;46:21;49:10; 51:2;57:12;66:17; 106:7;177:3,23; 178:1;199:20;200:14;	276:22 totally (4) 40:20;124:1; 158:15;214:23 touch (7) 30:16;40:22;79:11; 135:11;168:19; 169:10;269:18 touched (3) 102:20;235:25; 286:18 tough (3) 14:16;73:12;244:20 tour (1) 118:17 Tourism (2) 9:21;15:25	91:16,18;92:1,7; 159:20 trademarked (2) 35:21;159:23 trademarks (2) 92:9;239:6 trading (1) 179:8 traditional (3) 101:7;134:16; 135:19 traditional-minded (1) 134:1 trailer (3) 83:20;281:14; 283:16 train (1)	45:6;71:14;72:5,9, 11;111:3;161:7 transitioned (3) 194:24;263:16,19 transitioning (24) 22:13;70:22;74:6; 107:4;118:24;119:23; 121:22;123:21;129:4, 10,16;140:16,17; 161:4;163:8,13; 189:12,18;190:8,22; 191:11;194:4,5; 196:14 translated (1) 211:9 translation (1) 205:24
160:11,19;164:15; 165:17;166:4;168:19; 173:8;176:3;181:6; 183:8,12;189:5,15; 192:11;195:9;196:23; 197:24;199:3;200:2, 7;203:13;206:25; 208:23;210:19,23; 211:1;215:2;216:10, 17;219:21;224:17; 231:21;232:3;239:3; 247:23;257:11; 260:12;263:9,12; 265:6;268:25;269:17, 23;272:18;275:3; 282:2,9;286:6; 290:17;293:21;295:1, 11;296:24;301:9 today's (1)	Toolkit (12) 30:15,17;34:20,20, 24,25;35:2;38:14; 42:5;45:22;73:3; 210:25 tools (8) 50:14;105:4; 184:23;200:17;228:4, 19;230:2;296:22 to-one (3) 102:14;138:25; 245:12 top (19) 10:13;46:21;49:10; 51:2;57:12;66:17; 106:7;177:3,23; 178:1;199:20;200:14; 201:6;202:9;205:4; 230:19;276:11;287:3;	276:22 totally (4) 40:20;124:1; 158:15;214:23 touch (7) 30:16;40:22;79:11; 135:11;168:19; 169:10;269:18 touched (3) 102:20;235:25; 286:18 tough (3) 14:16;73:12;244:20 tour (1) 118:17 Tourism (2) 9:21;15:25 tours (1) 192:5	91:16,18;92:1,7; 159:20 trademarked (2) 35:21;159:23 trademarks (2) 92:9;239:6 trading (1) 179:8 traditional (3) 101:7;134:16; 135:19 traditional-minded (1) 134:1 trailer (3) 83:20;281:14; 283:16 train (1) 191:22 trained (2)	45:6;71:14;72:5,9, 11;111:3;161:7 transitioned (3) 194:24;263:16,19 transitioning (24) 22:13;70:22;74:6; 107:4;118:24;119:23; 121:22;123:21;129:4, 10,16;140:16,17; 161:4;163:8,13; 189:12,18;190:8,22; 191:11;194:4,5; 196:14 translated (1) 211:9 translation (1) 205:24 transmission (1) 301:4
160:11,19;164:15; 165:17;166:4;168:19; 173:8;176:3;181:6; 183:8,12;189:5,15; 192:11;195:9;196:23; 197:24;199:3;200:2, 7;203:13;206:25; 208:23;210:19,23; 211:1;215:2;216:10, 17;219:21;224:17; 231:21;232:3;239:3; 247:23;257:11; 260:12;263:9,12; 265:6;268:25;269:17, 23;272:18;275:3; 282:2,9;286:6; 290:17;293:21;295:1, 11;296:24;301:9 today's (1) 200:11	Toolkit (12) 30:15,17;34:20,20, 24,25;35:2;38:14; 42:5;45:22;73:3; 210:25 tools (8) 50:14;105:4; 184:23;200:17;228:4, 19;230:2;296:22 to-one (3) 102:14;138:25; 245:12 top (19) 10:13;46:21;49:10; 51:2;57:12;66:17; 106:7;177:3,23; 178:1;199:20;200:14; 201:6;202:9;205:4; 230:19;276:11;287:3; 301:7	276:22 totally (4) 40:20;124:1; 158:15;214:23 touch (7) 30:16;40:22;79:11; 135:11;168:19; 169:10;269:18 touched (3) 102:20;235:25; 286:18 tough (3) 14:16;73:12;244:20 tour (1) 118:17 Tourism (2) 9:21;15:25 tours (1) 192:5 toward (5)	91:16,18;92:1,7; 159:20 trademarked (2) 35:21;159:23 trademarks (2) 92:9;239:6 trading (1) 179:8 traditional (3) 101:7;134:16; 135:19 traditional-minded (1) 134:1 trailer (3) 83:20;281:14; 283:16 train (1) 191:22 trained (2) 21:15;103:5	45:6;71:14;72:5,9, 11;111:3;161:7 transitioned (3) 194:24;263:16,19 transitioning (24) 22:13;70:22;74:6; 107:4;118:24;119:23; 121:22;123:21;129:4, 10,16;140:16,17; 161:4;163:8,13; 189:12,18;190:8,22; 191:11;194:4,5; 196:14 translated (1) 211:9 translation (1) 205:24 transmission (1) 301:4 transmit (1)
160:11,19;164:15; 165:17;166:4;168:19; 173:8;176:3;181:6; 183:8,12;189:5,15; 192:11;195:9;196:23; 197:24;199:3;200:2, 7;203:13;206:25; 208:23;210:19,23; 211:1;215:2;216:10, 17;219:21;224:17; 231:21;232:3;239:3; 247:23;257:11; 260:12;263:9,12; 265:6;268:25;269:17, 23;272:18;275:3; 282:2,9;286:6; 290:17;293:21;295:1, 11;296:24;301:9 today's (1) 200:11 together (33)	Toolkit (12) 30:15,17;34:20,20, 24,25;35:2;38:14; 42:5;45:22;73:3; 210:25 tools (8) 50:14;105:4; 184:23;200:17;228:4, 19;230:2;296:22 to-one (3) 102:14;138:25; 245:12 top (19) 10:13;46:21;49:10; 51:2;57:12;66:17; 106:7;177:3,23; 178:1;199:20;200:14; 201:6;202:9;205:4; 230:19;276:11;287:3; 301:7 topic (10)	276:22 totally (4) 40:20;124:1; 158:15;214:23 touch (7) 30:16;40:22;79:11; 135:11;168:19; 169:10;269:18 touched (3) 102:20;235:25; 286:18 tough (3) 14:16;73:12;244:20 tour (1) 118:17 Tourism (2) 9:21;15:25 tours (1) 192:5 toward (5) 114:1,13;222:16;	91:16,18;92:1,7; 159:20 trademarked (2) 35:21;159:23 trademarks (2) 92:9;239:6 trading (1) 179:8 traditional (3) 101:7;134:16; 135:19 traditional-minded (1) 134:1 trailer (3) 83:20;281:14; 283:16 train (1) 191:22 trained (2) 21:15;103:5 training (14)	45:6;71:14;72:5,9, 11;111:3;161:7 transitioned (3) 194:24;263:16,19 transitioning (24) 22:13;70:22;74:6; 107:4;118:24;119:23; 121:22;123:21;129:4, 10,16;140:16,17; 161:4;163:8,13; 189:12,18;190:8,22; 191:11;194:4,5; 196:14 translated (1) 211:9 translation (1) 205:24 transmission (1) 301:4 transmit (1) 94:17
160:11,19;164:15; 165:17;166:4;168:19; 173:8;176:3;181:6; 183:8,12;189:5,15; 192:11;195:9;196:23; 197:24;199:3;200:2, 7;203:13;206:25; 208:23;210:19,23; 211:1;215:2;216:10, 17;219:21;224:17; 231:21;232:3;239:3; 247:23;257:11; 260:12;263:9,12; 265:6;268:25;269:17, 23;272:18;275:3; 282:2,9;286:6; 290:17;293:21;295:1, 11;296:24;301:9 today's (1) 200:11 together (33) 6:22;12:15,18;15:8;	Toolkit (12) 30:15,17;34:20,20, 24,25;35:2;38:14; 42:5;45:22;73:3; 210:25 tools (8) 50:14;105:4; 184:23;200:17;228:4, 19;230:2;296:22 to-one (3) 102:14;138:25; 245:12 top (19) 10:13;46:21;49:10; 51:2;57:12;66:17; 106:7;177:3,23; 178:1;199:20;200:14; 201:6;202:9;205:4; 230:19;276:11;287:3; 301:7 topic (10) 26:4;93:23;110:25;	276:22 totally (4) 40:20;124:1; 158:15;214:23 touch (7) 30:16;40:22;79:11; 135:11;168:19; 169:10;269:18 touched (3) 102:20;235:25; 286:18 tough (3) 14:16;73:12;244:20 tour (1) 118:17 Tourism (2) 9:21;15:25 tours (1) 192:5 toward (5) 114:1,13;222:16; 248:4;291:17	91:16,18;92:1,7; 159:20 trademarked (2) 35:21;159:23 trademarks (2) 92:9;239:6 trading (1) 179:8 traditional (3) 101:7;134:16; 135:19 traditional-minded (1) 134:1 trailer (3) 83:20;281:14; 283:16 train (1) 191:22 trained (2) 21:15;103:5 training (14) 20:3;103:8;104:2;	45:6;71:14;72:5,9, 11;111:3;161:7 transitioned (3) 194:24;263:16,19 transitioning (24) 22:13;70:22;74:6; 107:4;118:24;119:23; 121:22;123:21;129:4, 10,16;140:16,17; 161:4;163:8,13; 189:12,18;190:8,22; 191:11;194:4,5; 196:14 translated (1) 211:9 translation (1) 205:24 transmission (1) 301:4 transmit (1) 94:17 transparency (7)
160:11,19;164:15; 165:17;166:4;168:19; 173:8;176:3;181:6; 183:8,12;189:5,15; 192:11;195:9;196:23; 197:24;199:3;200:2, 7;203:13;206:25; 208:23;210:19,23; 211:1;215:2;216:10, 17;219:21;224:17; 231:21;232:3;239:3; 247:23;257:11; 260:12;263:9,12; 265:6;268:25;269:17, 23;272:18;275:3; 282:2,9;286:6; 290:17;293:21;295:1, 11;296:24;301:9 today's (1) 200:11 together (33) 6:22;12:15,18;15:8; 17:7;25:12,19,23;	Toolkit (12) 30:15,17;34:20,20, 24,25;35:2;38:14; 42:5;45:22;73:3; 210:25 tools (8) 50:14;105:4; 184:23;200:17;228:4, 19;230:2;296:22 to-one (3) 102:14;138:25; 245:12 top (19) 10:13;46:21;49:10; 51:2;57:12;66:17; 106:7;177:3,23; 178:1;199:20;200:14; 201:6;202:9;205:4; 230:19;276:11;287:3; 301:7 topic (10) 26:4;93:23;110:25; 170:2;201:24;202:10;	276:22 totally (4) 40:20;124:1; 158:15;214:23 touch (7) 30:16;40:22;79:11; 135:11;168:19; 169:10;269:18 touched (3) 102:20;235:25; 286:18 tough (3) 14:16;73:12;244:20 tour (1) 118:17 Tourism (2) 9:21;15:25 tours (1) 192:5 toward (5) 114:1,13;222:16; 248:4;291:17 towards (3)	91:16,18;92:1,7; 159:20 trademarked (2) 35:21;159:23 trademarks (2) 92:9;239:6 trading (1) 179:8 traditional (3) 101:7;134:16; 135:19 traditional-minded (1) 134:1 trailer (3) 83:20;281:14; 283:16 train (1) 191:22 trained (2) 21:15;103:5 training (14) 20:3;103:8;104:2; 107:14;109:3,10;	45:6;71:14;72:5,9, 11;111:3;161:7 transitioned (3) 194:24;263:16,19 transitioning (24) 22:13;70:22;74:6; 107:4;118:24;119:23; 121:22;123:21;129:4, 10,16;140:16,17; 161:4;163:8,13; 189:12,18;190:8,22; 191:11;194:4,5; 196:14 translated (1) 211:9 translation (1) 205:24 transmission (1) 301:4 transparency (7) 78:25;79:2;82:7;
160:11,19;164:15; 165:17;166:4;168:19; 173:8;176:3;181:6; 183:8,12;189:5,15; 192:11;195:9;196:23; 197:24;199:3;200:2, 7;203:13;206:25; 208:23;210:19,23; 211:1;215:2;216:10, 17;219:21;224:17; 231:21;232:3;239:3; 247:23;257:11; 260:12;263:9,12; 265:6;268:25;269:17, 23;272:18;275:3; 282:2,9;286:6; 290:17;293:21;295:1, 11;296:24;301:9 today's (1) 200:11 together (33) 6:22;12:15,18;15:8; 17:7;25:12,19,23; 26:9;31:8;34:20;	Toolkit (12) 30:15,17;34:20,20, 24,25;35:2;38:14; 42:5;45:22;73:3; 210:25 tools (8) 50:14;105:4; 184:23;200:17;228:4, 19;230:2;296:22 to-one (3) 102:14;138:25; 245:12 top (19) 10:13;46:21;49:10; 51:2;57:12;66:17; 106:7;177:3,23; 178:1;199:20;200:14; 201:6;202:9;205:4; 230:19;276:11;287:3; 301:7 topic (10) 26:4;93:23;110:25; 170:2;201:24;202:10; 226:18;269:20;	276:22 totally (4) 40:20;124:1; 158:15;214:23 touch (7) 30:16;40:22;79:11; 135:11;168:19; 169:10;269:18 touched (3) 102:20;235:25; 286:18 tough (3) 14:16;73:12;244:20 tour (1) 118:17 Tourism (2) 9:21;15:25 tours (1) 192:5 toward (5) 114:1,13;222:16; 248:4;291:17 towards (3) 29:24;31:24;129:13	91:16,18;92:1,7; 159:20 trademarked (2) 35:21;159:23 trademarks (2) 92:9;239:6 trading (1) 179:8 traditional (3) 101:7;134:16; 135:19 traditional-minded (1) 134:1 trailer (3) 83:20;281:14; 283:16 train (1) 191:22 trained (2) 21:15;103:5 training (14) 20:3;103:8;104:2; 107:14;109:3,10; 110:10,16,17,20;	45:6;71:14;72:5,9, 11;111:3;161:7 transitioned (3) 194:24;263:16,19 transitioning (24) 22:13;70:22;74:6; 107:4;118:24;119:23; 121:22;123:21;129:4, 10,16;140:16,17; 161:4;163:8,13; 189:12,18;190:8,22; 191:11;194:4,5; 196:14 translated (1) 211:9 translation (1) 205:24 transmission (1) 301:4 transparency (7) 78:25;79:2;82:7; 164:9;165:7;255:14;
160:11,19;164:15; 165:17;166:4;168:19; 173:8;176:3;181:6; 183:8,12;189:5,15; 192:11;195:9;196:23; 197:24;199:3;200:2, 7;203:13;206:25; 208:23;210:19,23; 211:1;215:2;216:10, 17;219:21;224:17; 231:21;232:3;239:3; 247:23;257:11; 260:12;263:9,12; 265:6;268:25;269:17, 23;272:18;275:3; 282:2,9;286:6; 290:17;293:21;295:1, 11;296:24;301:9 today's (1) 200:11 together (33) 6:22;12:15,18;15:8; 17:7;25:12,19,23; 26:9;31:8;34:20; 44:25;69:15;72:25;	Toolkit (12) 30:15,17;34:20,20, 24,25;35:2;38:14; 42:5;45:22;73:3; 210:25 tools (8) 50:14;105:4; 184:23;200:17;228:4, 19;230:2;296:22 to-one (3) 102:14;138:25; 245:12 top (19) 10:13;46:21;49:10; 51:2;57:12;66:17; 106:7;177:3,23; 178:1;199:20;200:14; 201:6;202:9;205:4; 230:19;276:11;287:3; 301:7 topic (10) 26:4;93:23;110:25; 170:2;201:24;202:10; 226:18;269:20; 270:20;272:18	276:22 totally (4) 40:20;124:1; 158:15;214:23 touch (7) 30:16;40:22;79:11; 135:11;168:19; 169:10;269:18 touched (3) 102:20;235:25; 286:18 tough (3) 14:16;73:12;244:20 tour (1) 118:17 Tourism (2) 9:21;15:25 tours (1) 192:5 toward (5) 114:1,13;222:16; 248:4;291:17 towards (3) 29:24;31:24;129:13 town (4)	91:16,18;92:1,7; 159:20 trademarked (2) 35:21;159:23 trademarks (2) 92:9;239:6 trading (1) 179:8 traditional (3) 101:7;134:16; 135:19 traditional-minded (1) 134:1 trailer (3) 83:20;281:14; 283:16 train (1) 191:22 trained (2) 21:15;103:5 training (14) 20:3;103:8;104:2; 107:14;109:3,10; 110:10,16,17,20; 114:15;136:7;191:17,	45:6;71:14;72:5,9, 11;111:3;161:7 transitioned (3) 194:24;263:16,19 transitioning (24) 22:13;70:22;74:6; 107:4;118:24;119:23; 121:22;123:21;129:4, 10,16;140:16,17; 161:4;163:8,13; 189:12,18;190:8,22; 191:11;194:4,5; 196:14 translated (1) 211:9 translation (1) 205:24 transmission (1) 301:4 transparency (7) 78:25;79:2;82:7; 164:9;165:7;255:14; 277:1
160:11,19;164:15; 165:17;166:4;168:19; 173:8;176:3;181:6; 183:8,12;189:5,15; 192:11;195:9;196:23; 197:24;199:3;200:2, 7;203:13;206:25; 208:23;210:19,23; 211:1;215:2;216:10, 17;219:21;224:17; 231:21;232:3;239:3; 247:23;257:11; 260:12;263:9,12; 265:6;268:25;269:17, 23;272:18;275:3; 282:2,9;286:6; 290:17;293:21;295:1, 11;296:24;301:9 today's (1) 200:11 together (33) 6:22;12:15,18;15:8; 17:7;25:12,19,23; 26:9;31:8;34:20; 44:25;69:15;72:25; 74:20;91:17;106:14;	Toolkit (12) 30:15,17;34:20,20, 24,25;35:2;38:14; 42:5;45:22;73:3; 210:25 tools (8) 50:14;105:4; 184:23;200:17;228:4, 19;230:2;296:22 to-one (3) 102:14;138:25; 245:12 top (19) 10:13;46:21;49:10; 51:2;57:12;66:17; 106:7;177:3,23; 178:1;199:20;200:14; 201:6;202:9;205:4; 230:19;276:11;287:3; 301:7 topic (10) 26:4;93:23;110:25; 170:2;201:24;202:10; 226:18;269:20; 270:20;272:18 topics (14)	276:22 totally (4) 40:20;124:1; 158:15;214:23 touch (7) 30:16;40:22;79:11; 135:11;168:19; 169:10;269:18 touched (3) 102:20;235:25; 286:18 tough (3) 14:16;73:12;244:20 tour (1) 118:17 Tourism (2) 9:21;15:25 tours (1) 192:5 toward (5) 114:1,13;222:16; 248:4;291:17 towards (3) 29:24;31:24;129:13 town (4) 111:23;221:16;	91:16,18;92:1,7; 159:20 trademarked (2) 35:21;159:23 trademarks (2) 92:9;239:6 trading (1) 179:8 traditional (3) 101:7;134:16; 135:19 traditional-minded (1) 134:1 trailer (3) 83:20;281:14; 283:16 train (1) 191:22 trained (2) 21:15;103:5 training (14) 20:3;103:8;104:2; 107:14;109:3,10; 110:10,16,17,20; 114:15;136:7;191:17, 24	45:6;71:14;72:5,9, 11;111:3;161:7 transitioned (3) 194:24;263:16,19 transitioning (24) 22:13;70:22;74:6; 107:4;118:24;119:23; 121:22;123:21;129:4, 10,16;140:16,17; 161:4;163:8,13; 189:12,18;190:8,22; 191:11;194:4,5; 196:14 translated (1) 211:9 translation (1) 205:24 transmission (1) 301:4 transparency (7) 78:25;79:2;82:7; 164:9;165:7;255:14; 277:1 transparent (5)
160:11,19;164:15; 165:17;166:4;168:19; 173:8;176:3;181:6; 183:8,12;189:5,15; 192:11;195:9;196:23; 197:24;199:3;200:2, 7;203:13;206:25; 208:23;210:19,23; 211:1;215:2;216:10, 17;219:21;224:17; 231:21;232:3;239:3; 247:23;257:11; 260:12;263:9,12; 265:6;268:25;269:17, 23;272:18;275:3; 282:2,9;286:6; 290:17;293:21;295:1, 11;296:24;301:9 today's (1) 200:11 together (33) 6:22;12:15,18;15:8; 17:7;25:12,19,23; 26:9;31:8;34:20; 44:25;69:15;72:25;	Toolkit (12) 30:15,17;34:20,20, 24,25;35:2;38:14; 42:5;45:22;73:3; 210:25 tools (8) 50:14;105:4; 184:23;200:17;228:4, 19;230:2;296:22 to-one (3) 102:14;138:25; 245:12 top (19) 10:13;46:21;49:10; 51:2;57:12;66:17; 106:7;177:3,23; 178:1;199:20;200:14; 201:6;202:9;205:4; 230:19;276:11;287:3; 301:7 topic (10) 26:4;93:23;110:25; 170:2;201:24;202:10; 226:18;269:20; 270:20;272:18	276:22 totally (4) 40:20;124:1; 158:15;214:23 touch (7) 30:16;40:22;79:11; 135:11;168:19; 169:10;269:18 touched (3) 102:20;235:25; 286:18 tough (3) 14:16;73:12;244:20 tour (1) 118:17 Tourism (2) 9:21;15:25 tours (1) 192:5 toward (5) 114:1,13;222:16; 248:4;291:17 towards (3) 29:24;31:24;129:13 town (4)	91:16,18;92:1,7; 159:20 trademarked (2) 35:21;159:23 trademarks (2) 92:9;239:6 trading (1) 179:8 traditional (3) 101:7;134:16; 135:19 traditional-minded (1) 134:1 trailer (3) 83:20;281:14; 283:16 train (1) 191:22 trained (2) 21:15;103:5 training (14) 20:3;103:8;104:2; 107:14;109:3,10; 110:10,16,17,20; 114:15;136:7;191:17,	45:6;71:14;72:5,9, 11;111:3;161:7 transitioned (3) 194:24;263:16,19 transitioning (24) 22:13;70:22;74:6; 107:4;118:24;119:23; 121:22;123:21;129:4, 10,16;140:16,17; 161:4;163:8,13; 189:12,18;190:8,22; 191:11;194:4,5; 196:14 translated (1) 211:9 translation (1) 205:24 transmission (1) 301:4 transparency (7) 78:25;79:2;82:7; 164:9;165:7;255:14; 277:1
160:11,19;164:15; 165:17;166:4;168:19; 173:8;176:3;181:6; 183:8,12;189:5,15; 192:11;195:9;196:23; 197:24;199:3;200:2, 7;203:13;206:25; 208:23;210:19,23; 211:1;215:2;216:10, 17;219:21;224:17; 231:21;232:3;239:3; 247:23;257:11; 260:12;263:9,12; 265:6;268:25;269:17, 23;272:18;275:3; 282:2,9;286:6; 290:17;293:21;295:1, 11;296:24;301:9 today's (1) 200:11 together (33) 6:22;12:15,18;15:8; 17:7;25:12,19,23; 26:9;31:8;34:20; 44:25;69:15;72:25; 74:20;91:17;106:14;	Toolkit (12) 30:15,17;34:20,20, 24,25;35:2;38:14; 42:5;45:22;73:3; 210:25 tools (8) 50:14;105:4; 184:23;200:17;228:4, 19;230:2;296:22 to-one (3) 102:14;138:25; 245:12 top (19) 10:13;46:21;49:10; 51:2;57:12;66:17; 106:7;177:3,23; 178:1;199:20;200:14; 201:6;202:9;205:4; 230:19;276:11;287:3; 301:7 topic (10) 26:4;93:23;110:25; 170:2;201:24;202:10; 226:18;269:20; 270:20;272:18 topics (14)	276:22 totally (4) 40:20;124:1; 158:15;214:23 touch (7) 30:16;40:22;79:11; 135:11;168:19; 169:10;269:18 touched (3) 102:20;235:25; 286:18 tough (3) 14:16;73:12;244:20 tour (1) 118:17 Tourism (2) 9:21;15:25 tours (1) 192:5 toward (5) 114:1,13;222:16; 248:4;291:17 towards (3) 29:24;31:24;129:13 town (4) 111:23;221:16; 223:7;263:11	91:16,18;92:1,7; 159:20 trademarked (2) 35:21;159:23 trademarks (2) 92:9;239:6 trading (1) 179:8 traditional (3) 101:7;134:16; 135:19 traditional-minded (1) 134:1 trailer (3) 83:20;281:14; 283:16 train (1) 191:22 trained (2) 21:15;103:5 training (14) 20:3;103:8;104:2; 107:14;109:3,10; 110:10,16,17,20; 114:15;136:7;191:17, 24	45:6;71:14;72:5,9, 11;111:3;161:7 transitioned (3) 194:24;263:16,19 transitioning (24) 22:13;70:22;74:6; 107:4;118:24;119:23; 121:22;123:21;129:4, 10,16;140:16,17; 161:4;163:8,13; 189:12,18;190:8,22; 191:11;194:4,5; 196:14 translated (1) 211:9 translation (1) 205:24 transmission (1) 301:4 transparency (7) 78:25;79:2;82:7; 164:9;165:7;255:14; 277:1 transparent (5)
$\begin{array}{c} 160:11,19;164:15;\\ 165:17;166:4;168:19;\\ 173:8;176:3;181:6;\\ 183:8,12;189:5,15;\\ 192:11;195:9;196:23;\\ 197:24;199:3;200:2,\\ 7;203:13;206:25;\\ 208:23;210:19,23;\\ 211:1;215:2;216:10,\\ 17;219:21;224:17;\\ 231:21;232:3;239:3;\\ 247:23;257:11;\\ 260:12;263:9,12;\\ 265:6;268:25;269:17,\\ 23;272:18;275:3;\\ 282:2,9;286:6;\\ 290:17;293:21;295:1,\\ 11;296:24;301:9\\ \mbox{today's (1)}\\ 200:11\\ \mbox{together (33)}\\ 6:22;12:15,18;15:8;\\ 17:7;25:12,19,23;\\ 26:9;31:8;34:20;\\ 44:25;69:15;72:25;\\ 74:20;91:17;106:14;\\ 107:6;119:5;132:19;\\ 133:20;136:17;\\ \end{array}$	Toolkit (12) 30:15,17;34:20,20, 24,25;35:2;38:14; 42:5;45:22;73:3; 210:25 tools (8) 50:14;105:4; 184:23;200:17;228:4, 19;230:2;296:22 to-one (3) 102:14;138:25; 245:12 top (19) 10:13;46:21;49:10; 51:2;57:12;66:17; 106:7;177:3,23; 178:1;199:20;200:14; 201:6;202:9;205:4; 230:19;276:11;287:3; 301:7 topic (10) 26:4;93:23;110:25; 170:2;201:24;202:10; 226:18;269:20; 270:20;272:18 topics (14) 44:22;64:1;107:3, 11,16;110:17,23;	276:22 totally (4) 40:20;124:1; 158:15;214:23 touch (7) 30:16;40:22;79:11; 135:11;168:19; 169:10;269:18 touched (3) 102:20;235:25; 286:18 tough (3) 14:16;73:12;244:20 tour (1) 118:17 Tourism (2) 9:21;15:25 tours (1) 192:5 toward (5) 114:1,13;222:16; 248:4;291:17 towards (3) 29:24;31:24;129:13 town (4) 111:23;221:16; 223:7;263:11 toxicity (2)	91:16,18;92:1,7; 159:20 trademarked (2) 35:21;159:23 trademarks (2) 92:9;239:6 trading (1) 179:8 traditional (3) 101:7;134:16; 135:19 traditional-minded (1) 134:1 trailer (3) 83:20;281:14; 283:16 train (1) 191:22 trained (2) 21:15;103:5 training (14) 20:3;103:8;104:2; 107:14;109:3,10; 110:10,16,17,20; 114:15;136:7;191:17, 24 trainings (2) 24:24;190:11	45:6;71:14;72:5,9, 11;111:3;161:7 transitioned (3) 194:24;263:16,19 transitioning (24) 22:13;70:22;74:6; 107:4;118:24;119:23; 121:22;123:21;129:4, 10,16;140:16,17; 161:4;163:8,13; 189:12,18;190:8,22; 191:11;194:4,5; 196:14 translated (1) 211:9 translation (1) 205:24 transmission (1) 301:4 transparency (7) 78:25;79:2;82:7; 164:9;165:7;255:14; 277:1 transparent (5) 79:9;82:10,11; 201:22;285:24
160:11,19;164:15; 165:17;166:4;168:19; 173:8;176:3;181:6; 183:8,12;189:5,15; 192:11;195:9;196:23; 197:24;199:3;200:2, 7;203:13;206:25; 208:23;210:19,23; 211:1;215:2;216:10, 17;219:21;224:17; 231:21;232:3;239:3; 247:23;257:11; 260:12;263:9,12; 265:6;268:25;269:17, 23;272:18;275:3; 282:2,9;286:6; 290:17;293:21;295:1, 11;296:24;301:9 today's (1) 200:11 together (33) 6:22;12:15,18;15:8; 17:7;25:12,19,23; 26:9;31:8;34:20; 44:25;69:15;72:25; 74:20;91:17;106:14; 107:6;119:5;132:19; 133:20;136:17; 141:12;146:2;194:21;	Toolkit (12) 30:15,17;34:20,20, 24,25;35:2;38:14; 42:5;45:22;73:3; 210:25 tools (8) 50:14;105:4; 184:23;200:17;228:4, 19;230:2;296:22 to-one (3) 102:14;138:25; 245:12 top (19) 10:13;46:21;49:10; 51:2;57:12;66:17; 106:7;177:3,23; 178:1;199:20;200:14; 201:6;202:9;205:4; 230:19;276:11;287:3; 301:7 topic (10) 26:4;93:23;110:25; 170:2;201:24;202:10; 226:18;269:20; 270:20;272:18 topics (14) 44:22;64:1;107:3, 11,16;110:17,23; 113:14;161:20;	276:22 totally (4) 40:20;124:1; 158:15;214:23 touch (7) 30:16;40:22;79:11; 135:11;168:19; 169:10;269:18 touched (3) 102:20;235:25; 286:18 tough (3) 14:16;73:12;244:20 tour (1) 118:17 Tourism (2) 9:21;15:25 tours (1) 192:5 toward (5) 114:1,13;222:16; 248:4;291:17 towards (3) 29:24;31:24;129:13 town (4) 111:23;221:16; 223:7;263:11 toxicity (2) 154:17,21	91:16,18;92:1,7; 159:20 trademarked (2) 35:21;159:23 trademarks (2) 92:9;239:6 trading (1) 179:8 traditional (3) 101:7;134:16; 135:19 traditional-minded (1) 134:1 trailer (3) 83:20;281:14; 283:16 train (1) 191:22 trained (2) 21:15;103:5 training (14) 20:3;103:8;104:2; 107:14;109:3,10; 110:10,16,17,20; 114:15;136:7;191:17, 24 trainings (2) 24:24;190:11 transcribed (1)	45:6;71:14;72:5,9, 11;111:3;161:7 transitioned (3) 194:24;263:16,19 transitioning (24) 22:13;70:22;74:6; 107:4;118:24;119:23; 121:22;123:21;129:4, 10,16;140:16,17; 161:4;163:8,13; 189:12,18;190:8,22; 191:11;194:4,5; 196:14 translated (1) 211:9 translation (1) 205:24 transmission (1) 301:4 transparency (7) 78:25;79:2;82:7; 164:9;165:7;255:14; 277:1 transparent (5) 79:9;82:10,11; 201:22;285:24 Transportation (2)
$\begin{array}{c} 160:11,19;164:15;\\ 165:17;166:4;168:19;\\ 173:8;176:3;181:6;\\ 183:8,12;189:5,15;\\ 192:11;195:9;196:23;\\ 197:24;199:3;200:2,\\ 7;203:13;206:25;\\ 208:23;210:19,23;\\ 211:1;215:2;216:10,\\ 17;219:21;224:17;\\ 231:21;232:3;239:3;\\ 247:23;257:11;\\ 260:12;263:9,12;\\ 265:6;268:25;269:17,\\ 23;272:18;275:3;\\ 282:2,9;286:6;\\ 290:17;293:21;295:1,\\ 11;296:24;301:9\\ {\bf today's (1)}\\ 200:11\\ {\bf together (33)}\\ 6:22;12:15,18;15:8;\\ 17:7;25:12,19,23;\\ 26:9;31:8;34:20;\\ 44:25;69:15;72:25;\\ 74:20;91:17;106:14;\\ 107:6;119:5;132:19;\\ 133:20;136:17;\\ \end{array}$	Toolkit (12) 30:15,17;34:20,20, 24,25;35:2;38:14; 42:5;45:22;73:3; 210:25 tools (8) 50:14;105:4; 184:23;200:17;228:4, 19;230:2;296:22 to-one (3) 102:14;138:25; 245:12 top (19) 10:13;46:21;49:10; 51:2;57:12;66:17; 106:7;177:3,23; 178:1;199:20;200:14; 201:6;202:9;205:4; 230:19;276:11;287:3; 301:7 topic (10) 26:4;93:23;110:25; 170:2;201:24;202:10; 226:18;269:20; 270:20;272:18 topics (14) 44:22;64:1;107:3, 11,16;110:17,23;	276:22 totally (4) 40:20;124:1; 158:15;214:23 touch (7) 30:16;40:22;79:11; 135:11;168:19; 169:10;269:18 touched (3) 102:20;235:25; 286:18 tough (3) 14:16;73:12;244:20 tour (1) 118:17 Tourism (2) 9:21;15:25 tours (1) 192:5 toward (5) 114:1,13;222:16; 248:4;291:17 towards (3) 29:24;31:24;129:13 town (4) 111:23;221:16; 223:7;263:11 toxicity (2)	91:16,18;92:1,7; 159:20 trademarked (2) 35:21;159:23 trademarks (2) 92:9;239:6 trading (1) 179:8 traditional (3) 101:7;134:16; 135:19 traditional-minded (1) 134:1 trailer (3) 83:20;281:14; 283:16 train (1) 191:22 trained (2) 21:15;103:5 training (14) 20:3;103:8;104:2; 107:14;109:3,10; 110:10,16,17,20; 114:15;136:7;191:17, 24 trainings (2) 24:24;190:11	45:6;71:14;72:5,9, 11;111:3;161:7 transitioned (3) 194:24;263:16,19 transitioning (24) 22:13;70:22;74:6; 107:4;118:24;119:23; 121:22;123:21;129:4, 10,16;140:16,17; 161:4;163:8,13; 189:12,18;190:8,22; 191:11;194:4,5; 196:14 translated (1) 211:9 translation (1) 205:24 transmission (1) 301:4 transparency (7) 78:25;79:2;82:7; 164:9;165:7;255:14; 277:1 transparent (5) 79:9;82:10,11; 201:22;285:24

- Vol. 3 April 29, 2024

Burke Court Reporting & Transcription (973) 692-0660

(51) times - transposed

Spring 2024 Meeting	1			
59:14	trusts (1)	42:12	ultimate (1)	unfinished (1)
traveled (3)	130:10	Twenty-four (1)	296:20	266:2
		262:10	ultimately (6)	unfold (1)
187:23;264:25;	trustworthy (1)			
300:22	39:11	Twice (5)	34:20;48:23;115:8;	67:23
traveling (1)	truth (2)	36:19;66:25;181:1;	246:23;264:22;268:9	unfortunately (5)
298:1	212:9;291:4	221:15;277:13	umbrella (1)	60:2;177:20;181:1;
tread (2)	try (17)	two (78)	176:22	190:14;196:15
265:3,3	16:3;32:5;69:24;	10:17;13:4;17:1,1;	UN (1)	UNIDENTIFIED (2)
treatment (1)	93:7;105:20;115:16;	19:1,22;22:11;27:22;	145:12	17:4;21:20
296:12	135:19;139:1;149:3;	39:14;46:3,24;54:10;	unable (1)	uniform (1)
treatments (1)	163:20;193:12;	59:13,16;70:1,5;76:8;	269:25	222:24
20:14	197:11,19;199:19;	79:22;90:18;93:12;	unacceptable (2)	unifying (1)
treaty (1)	228:23;233:18;246:5	94:4;99:15;109:8,19,	214:23;237:19	220:25
145:13	trying (23)	22;111:12;114:16;	unanimous (2)	unintentional (2)
tree (3)	28:6,7;36:3;41:23;	118:12;119:10;120:4;	25:17,17	149:6;242:4
124:25;171:17;	54:14;62:16;63:17;	129:4;132:21;137:9;	unannounced (2)	unique (5)
230:23	97:10;130:15;143:12;	140:7,8,13;141:11;	36:2;207:13	29:24;95:12;
trees (1)	146:2;149:18;153:23;	143:3;148:1,5;157:5;	unbelievably (1)	223:13;224:1;247:13
121:19	155:21;159:2;180:2,	163:10;165:5,7;	122:4	United (34)
tremendous (3)	6;193:4;202:21;	168:19;169:2;177:12,	uncertainty (1)	10:4,18;11:25;12:6;
44:6;50:8;208:10	213:8;223:22;279:2;	18,22,24;180:17;	184:20	47:25;48:5;53:19;
trend (2)	281:3	183:9;187:16,18;	uncertified (4)	54:21;55:1,16;57:13;
58:20;59:3	TUCKER (30)	192:22;195:18;	51:23;53:14,20;	76:22,24;77:5,23;
trends (2)	6:5,10;16:9;17:5;	204:21,25;218:5;	67:20	78:8;81:1,2,2,10;
56:20;282:19	28:21;30:9,11;40:24;	223:5,10;227:1,4;	under (29)	101:7;104:18;106:6;
trial (1)	43:9;69:13;73:24;	228:16;229:3,6;	48:1,2,7;50:2;	112:24;169:5;172:7;
257:2	74:21;76:16;77:15;	240:5;251:18;253:9;	56:24;75:20;80:16;	177:10;179:21;
trials (1)	79:13;84:4;86:25;	257:4;261:5;269:18;	81:9,17;82:2;83:3;	218:24;225:21;
290:25	87:18;89:8;91:3;	270:11;277:12,13;	109:10,11;141:12;	258:22;261:2;291:18;
triazines (1)	93:19;94:10,24;	291:14;292:5;299:4	144:15,15;159:25;	292:25
231:9	95:10;97:9;98:8;99:2;	two-pound-cap (1)	176:22;180:21;	universities (2)
tricks (1)	116:16;216:18;239:5	177:14	189:19;224:20;	108:1,9
191:15	Tuesday (3)	type (11)	227:10;234:17;270:9;	University (9)
tried (6)	164:17;301:20;	79:10;80:6,6,10;	271:24;276:15;	8:19,22;20:4,20;
70:1;75:17;163:7;	302:2	88:17;147:25;148:10;	279:10;289:7;299:21	21:12;120:10;154:6;
248:14;257:5;277:5	tunnel (2)	163:6;196:18;205:7;	underfeeding (1)	190:10;276:9
tries (1)	120:10,12	209:18	182:3	unlabeled (1)
235:13	Turkey (1)	types (12)	underneath (3)	147:12
triggered (1)	21:6	11:12;13:21;30:25;	131:1;182:12;	Unlike (1)
153:20	turn (16)	37:21;51:11;64:2;	199:18	159:24
trillion (3)	18:15;23:13,23;	66:14;80:7;107:17;	underrepresented (1)	Unlimited (1)
158:9,25;159:13	28:20;40:24;41:6;	110:20;155:15;161:6	88:14	135:8
trouble (3)	43:7;54:12;95:8,21;	typical (2)	underscore (1)	unmatched (1)
117:23;146:3;224:8	97:5;104:7;118:6;	134:3;234:25	282:22	207:7
truckload (1)	134:24;252:14;	typically (5)	underserved (7)	unnecessary (1)
188:1	267:24	14:13;147:23;	88:13;101:8;	296:13
true (10)	turnaround (2)	152:20;266:12;	115:18,22;116:9,10;	unnoticed (3)
25:7;26:1;38:5;	57:25;190:5	267:16	223:9	25:23;97:18;101:10
81:3;154:20;231:21;	TURNER (10)	typing (1)	understands (2)	unpackage (1)
235:7;237:1,1;256:14	21:14,14;27:21;	44:1	13:17;135:12	257:13
	41:8;155:18,20;	44.1 typo (1)	understatement (1)	unresolved (1)
truly (7) 33:22;52:6;160:7;	156:12,16;210:17;	59:12	24:6	254:21
	300:11	39.12	understood (6)	unsatisfying (1)
188:12;208:21;		U		
272:24;292:5	turning (2) 73:19;90:23	U	34:5;36:6;38:6,20; 193:22;278:11	174:8 unsold (2)
Trust (13) 20:6;32:9,9;130:9,		UDT(1)		255:13;288:6
	turnover (1)	UDT (1)	underway (1) 274:10	
15,17;141:7;209:12;	28:1 turns (4)	242:23		untapped (1)
258:17,17;268:18;	turns (4)	Uh (1)	underwriters (2)	108:11
292:11;298:3	33:2;53:23;66:25;	185:11	278:7;280:5	untested (1)
trusted (4)	89:20 Tuchagaa (1)	Ukraine (1)	undocumented (1)	293:16
33:8;34:11,12,13	Tuskegee (1)	21:6	101:11	untold (1)
trusting (1)	20:4	ulcers (1)	uneven (1)	220:4
100:14	TVs (1)	296:7	74:16	unusual (1)
	I	I	1	l

- Vol. 3 April 29, 2024

Spring 2024 Meeting			[April 23, 2024
262:19	updating (1)	175:17;176:23;177:2,		296:9
unwanted (1)	282:25	21;180:16,23;189:25;	T 7	venture (2)
255:17			V	170:9;232:18
	uphill (1)	190:25;214:8,8;		
unyielding (1)	235:17	215:10;223:19;	vacated (1)	verbally (1)
207:19	uphold (2)	230:25;233:2;234:20;	27:20	36:21
up (130)	213:5;292:9	236:23;237:23;239:6,	vacation (1)	verification (2)
12:4;24:5,13,25;	uplifting (1)	9;241:25;249:15,16;	124:22	291:16;293:12
28:8,12;29:17;40:22;	213:8	255:3,5,15;256:13,14;	valid (8)	verified (1)
54:5;55:10;56:20;	upon (5)	270:14,17;272:1,25;	56:2,17;58:6,21,22,	60:11
58:25;59:2,3;60:4;	26:7;170:1;233:9;	273:16;274:5;287:21;	23;63:20;83:4	verify (2)
63:8;65:7,18;70:24;	298:22;299:3	291:1;292:23;295:22;	Valley (6)	128:19;151:7
72:23;74:6;84:1;87:3;	upper (2)	296:8,21	168:3;176:1;295:1;	version (5)
88:4,19;90:20;92:9,	111:25;113:15	used (37)	298:7,9;301:16	51:20,21;169:22;
15;93:8;94:1;105:23;	upping (3)	35:2,3,4;36:3;	valuable (4)	175:17;223:20
116:25;118:2;121:23;	211:10,10,11	37:20,22;38:7;55:11;	14:8;207:1;267:18;	versions (1)
127:9;128:5;130:3;	upset (1)	84:16,18;134:14;	290:14	175:3
131:10;133:9,16;	187:11	144:4,18;151:14,19;		versus (9)
134:25;139:4;141:22;	urge (5)	154:22;162:2,8;	value (12)	25:7;26:23;65:6,6;
142:12,12,16;147:23;	29:18;161:15;	177:19;184:4;225:20;	8:9;11:2;14:11;	193:1;213:1,2;268:7;
149:19;151:3;153:3,	241:12;283:14;	248:7;253:5;254:25;	177:1;181:7;213:3;	289:2
	288:19		222:3;248:25;267:12;	vertically (1)
7;157:20;159:12; 160:8,13;161:24;		256:23;261:23; 264:20;267:17,21;	274:19;291:14;293:9	126:3
	urges (2)		variability (4)	
163:18;168:10,22;	202:14;240:20	269:14;271:18;	63:3,6;115:20;	vested (1)
173:20;174:1,7,10,15;	USA (1)	272:15;273:10;	154:9	135:8
175:13,20;178:23;	300:2	288:15;295:17;	variable (1)	veterinarian (3)
179:5;181:20;183:2;	usable (2)	296:17;297:13	190:14	294:25;295:8;
185:9;187:14,22;	299:14,15	useful (8)	variables (1)	296:11
188:23;194:10;	usage (10)	54:16;161:3;	152:9	veterinarians (1)
197:16;199:19;200:4;	110:1;283:15;	183:16;248:17;	variances (1)	295:15
204:7,25,25;206:21;	286:17,21,24;287:3,	253:12,13;296:22;	268:8	via (7)
210:18,23;212:14;	10;288:20;290:6,14	297:15	varies (1)	36:15;79:10;
213:10,21;214:15;	USDA (42)	usefully (1)	285:11	198:10;221:21;249:6,
217:21;218:10;	13:9;25:24;26:1;	247:7	varieties (12)	7;271:8
220:10,15;226:25;	39:4,10;50:2;56:23;	user (2)	39:25;255:4,6,9,13;	viability (2)
228:23;229:12,19;	61:16;72:6;79:20;	195:22,24	258:1,3;284:13;	112:23;291:18
230:23;236:25;	80:22;89:15;105:19;	users (4)	287:25;288:5,14,15	vice (2)
238:17;244:9;246:2;	114:12;120:24;131:5,	199:5,10;262:24;	variety (6)	22:7;176:1
253:21;258:9,24;	13;141:7;143:23;	267:14	14:25;35:2;155:12;	Vice-Chair (43)
259:17;260:17,20,23;	144:3;145:19;156:18;	uses (3)	256:22,22;272:16	28:22,23,24;42:21;
263:6;266:2,5;269:1;	168:18;169:18,24;	177:4;242:2;299:17	various (7)	78:21;83:10;89:1;
272:10;273:18,19;	183:24;186:9,14,19;	using (27)	27:4;29:16;127:23;	139:17;146:18;
275:25;280:18;281:2;	188:1;195:15,20;	35:6,23;37:24;42:3;	245:21;267:11;	147:20;148:12;149:5,
283:19;286:5,18;	201:17;205:23;222:9;	43:5,6;45:11,22;	282:10;290:7	8,21;154:11;166:3;
289:17;290:13;291:8,	227:8;235:4;270:21;	56:13;60:13;63:13;	vast (2)	167:6;173:6,8,15,17;
16;292:20;296:8;	271:9;276:7;277:18,	87:5;120:11;134:16;	176:17;212:13	174:9;181:5,14,20,24;
298:2,4,23	21	172:10;177:13;	Vatican (1)	192:11,20;194:7;
upcoming (2)	USDA/AMS/NATIONAL (1)	190:11;216:15;	127:3	199:2,24;203:12;
190:17;203:14	30:10	223:18;225:16;233:5;	veganism (1)	216:9;230:11;232:2;
update (27)	USDA-certified (1)	234:14;252:7;255:2;	213:1	233:12;257:10;258:6;
7:11;17:19;23:23;	291:16	282:7;292:7;301:23	vegetable (4)	290:17,21;291:5;
27:15;28:21;30:10,	USDA's (4)	usual (3)	237:16,18;253:25;	293:20;294:13
12;31:16,17;32:15;	88:22;104:15;	16:10;198:13,21	276:4	victim (1)
41:19;43:8,14,17;	202:15;225:11	Usually (6)	vegetables (12)	237:14
44:10,23;45:6;60:1,3;	use (73)	20:23;119:10;	10:15;23:2;110:24;	victories (1)
78:23;80:13,24;	7:2;35:20;36:3,8;	166:8;167:25;245:6;	124:25;126:13;	39:19
88:18;184:14;282:6,	38:15;39:22;42:8,10;	260:17	124.25,120.15, 189:21;227:20;	victory (1)
15,23	45:12,14;47:14;	utilize (1)	229:22;230:5;234:8;	39:16
updated (6)	48:16;60:7,14;65:19;	269:25		video (4)
17:18;73:9,10;	84:7,10;144:20;	utilized (2)	237:13,24 vegetarian- (1)	99:20;110:22;
145:21;164:19;	148:1,23;149:13,15,	170:7;190:20	vegetarian- (1) 178:7	121:11,13
276:18	17,20;154:8;159:12;	utilizing (1)	vehicles (1)	videos (1)
updates (2)	160:2;162:11;169:18,	274:10	79:10	110:21
68:2;73:11	19,21,23,24;173:24;		vein (1)	view (7)
,	· · · · · · · · · · · · · · · · · · ·			

spring 2024 Wreeting	Ι	[[April 29, 2024
25:8;63:7;91:4;	voices (3)	199:14	203:15;256:12	15:5,16
190:3;239:17;247:15;	29:12;194:15;	Washington (6)	webinars (8)	well-pump (1)
280:4	205:15	20:6,6;147:15;	50:20;102:9,25;	119:12
viewpoint (1)	volatile (1)	209:11;235:6;299:11	105:2;110:21;144:21;	Wendt (15)
154:15	14:20	waste (12)	152:16;254:2	183:3;188:24;
viewpoints (1)	volatility (2)	145:22;236:10;	webpage (1)	194:10,12,13;197:4,7,
29:25	261:19,19	240:4;267:22,23;	58:18	9,21,25;198:11,24;
vigilance (1)	volume (7)	271:6;272:21;273:2,	website (7)	199:12,25;200:3
97:20	51:14;55:21;64:7;	18,19,21,25	15:15;35:7;37:6;	WENDY (3)
vigilant (1)	66:5;250:2;273:17;	watch (2)	38:14;40:4;42:4;	121:14,15;124:3
189:23	291:1	44:13;51:20	103:2	weren't (6)
vigorous (3)	voluntarily (1)	watched (1)	Wednesday (4)	44:13;69:23,24;
267:1,1,3	155:8	97:2	7:19,19;74:10;	90:2;124:20;196:7
vineyard (1)	voluntary (1)	watching (1)	202:22	west (12)
215:24	156:22	19:19	weed (6)	21:18;98:1;178:21;
Vineyards (1)	volunteer (3)	water (15)	109:25;111:2;	179:4;195:19;258:21;
214:1	18:18;96:3;205:6	6:25;69:8;98:1;	215:16,25;281:6,7	260:15;263:10;
violating (1)	vote (5)	140:19;149:15,16,17;	weeds (1)	281:16;298:7;299:18;
92:1	25:1,9;26:4,9;	158:7,14;235:1;	157:19	300:24
violation (1)	251:25	264:4;299:14,15,15,	week (13)	whack-a-mole (1)
91:16	votes (3)	16	44:12;47:23;52:25;	254:12
violations (1)	24:10;25:12,16	wave (3)	59:25;132:21;144:6;	What's (45)
92:7	voting (1)	95:22;96:12;115:7	145:12;153:6;205:20;	12:11;32:6;34:18;
Virgin (1)	202:22	way (67)	223:1;232:9;249:22;	40:4;55:25;78:13;
118:13	vs (1)	10:1;12:12;17:6;	282:20	83:2;84:1;92:20;
Virginia (4)	144:7	24:19;28:18;30:3;	weekend (1)	93:14;95:18;105:20;
298:7;299:6,18;		49:5;51:6,6;54:16;	29:3	107:7;112:8;116:24;
300:24	W	59:23;67:3;68:17;	weekends (2)	131:15;136:12,23;
Viroqua (2)		71:18,18;81:4;91:4;	59:5,5	148:17;149:18;156:1,
96:9;97:25	wage (1)	93:17;100:19;112:8;	weeks (21)	5;158:22;166:24,25;
virtual (4)	217:13	113:4,9,25;123:1;	29:8;49:14,22;52:2;	167:25;176:20;184:7;
98:4;194:16;198:2;	wait (6)	125:6;127:16;132:10;	56:18;57:19;59:6,21;	187:9;202:23;211:8;
241:4	16:19;53:3;145:23;	133:13,17;134:7;	68:7,10,10;76:19;	212:24;218:11;
virtually (4)	165:23;185:21;	135:16;143:4;151:18;	86:22;92:13;119:10;	232:10;234:13;236:4;
23:6;29:8;137:25;	282:15	185:1,7;192:3;204:2;	140:14;182:15;	244:23,23;249:9;
198:4	waiting (5)	207:14;209:6;213:9;	221:24;225:7;229:6;	256:17;259:9;276:20;
visibility (1)	102:4;142:12;	218:11;225:3;230:5,	282:14	289:1;290:25;296:23
34:9	221:17;232:9;236:4	18;231:4,5;233:9,24;	weigh (1)	whatsoever (1)
vision (3)	Walent (19)	234:10;235:5,16;	241:24	180:16
259:2,9,17	98:13,23,24,25;	237:2;239:15;248:16;	weighed (1)	wheat (2)
visit (5)	99:1;100:24;101:4;	249:3,19;251:12;	87:15	195:2;284:12
9:19;118:16,23;	108:18;111:18;117:3;	254:25;264:13;	weight (1)	wheel (1)
133:1;139:3		276:21;278:17;	169:20	167:10
,	121:7,10;128:1;		Welcome (17)	wheels (1)
visits (2)	129:7;132:16;133:15;	280:23,24;289:8;		
107:24;108:8	138:3;140:12;141:17	290:9;298:2,23	6:11;9:19;16:6;	153:3
visually (1)	walk (4)	ways (12)	18:21;28:24;43:19;	whereas (1)
147:1	34:24;171:19;	60:24,25;61:12;	97:6;132:6;142:8;	164:16
vital (4)	182:10;260:12	96:8;110:4;116:7;	162:11;163:24;183:1;	where's (1)
18:1;120:1;251:8;	walking (1)	119:3;123:18;127:19;	197:25;207:25;	134:7
263:20	182:12	221:14;237:23;	208:25;253:20;263:9	Whereupon (1)
vitamin (1)	Walmart (1)	238:11	welcomed (1)	302:1
243:8	41:23	weaned (1)	29:8	wherever (4)
vitamins (2)	wander (1)	273:8	welcoming (2)	15:24;16:1;76:1;
243:4,13	114:1	wearing (1)	7:5;8:24	124:23
vivo (1)	wants (2)	130:24	welfare (9)	wherewithal (1)
273:9	128:24;169:18	weather (1)	182:2,23;207:11;	196:17
voice (9)	warehouse (1)	14:18	292:14;293:13;295:6,	whey (1)
9:2;15:21;25:1;	92:6	weaved (1)	9,21;297:3	10:12
40:9;67:14;198:5;	warehouses (3)	105:25	well- (1)	white (5)
220:25;233:14;	51:10;64:20;255:13	web (1)	145:15	182:15;290:22,24;
235:16	warning (1)	256:16	well-funded (1)	291:1,4
voiced (1)	61:20	webinar (5)	13:5	whoa (1)
221:17	washing (1)	68:6;90:20;107:10;	wellness (2)	242:20
221.17	washing (1)	00.0, 0.20, 107.10	WUIIIUSS (2)	272.20

- Vol. 3 April 29, 2024

183:12:187:7.13:

297:25

112:9

90:9

245:11

218:17

66:20;244:8

145:10:268:19

212:22,22;217:23;

opring 2024 Meeting	
whole (22)	296:16
10:10;24:17;42:11,	wire (1)
14;47:15;51:16,16;	119:20
52:18;57:3;63:24;	Wisconsin (43)
73:17;75:5,6;82:24;	7:6,22;8:13,14,17,
88:20;91:5,7,20;	19,22;9:6,19,23;10:2;
130:20;132:11;279:2;	11:3,4;12:2,7;13:1,
289:14	25;24:2,17;43:21,24;
whole-farm (1)	44:4;96:9;97:25;
292:7	100:7;111:23;112:1,
wholeheartedly (1)	3;114:4,16;116:1,4,9;
161:21	124:17;125:25;126:4,
who's (11)	14;127:13;163:25;
14:5;18:16;32:17;	263:9,11;266:25;
70:16;88:4;167:22;	267:2
170:18;173:13;	Wisconsinite (1)
193:11;241:8;242:14	9:7
whose (2)	Wisconsin's (4)
29:4;205:8	7:25;8:6;11:4;
who've (1)	14:23
159:5	wisdom (1)
wide (2)	132:4
157:24;222:14	wish (4)
wider (1) 165:13	132:14;142:24; 291:6;298:12
widespread (1)	within (22)
272:23	29:14;42:2;47:23;
WIEDENHEFT (3)	49:14;79:18;81:13;
123:12,13,13	89:24;92:13;111:3;
wife (1)	139:2;140:14;154:21;
263:10	197:12;198:10;
wigglers (1)	243:12,14;257:25;
187:17	258:1;270:6;292:14;
Wilder (1)	294:14;297:17
119:19	without (12)
willing (3)	33:3;34:5;35:20;
28:11;130:11;196:7	62:3;99:9;100:18;
willingness (1)	131:6,7;239:23;
154:12	240:9;255:17;299:14
win (3)	witnessed (2)
56:7,19;173:14	120:17;299:4
wine (16)	Wolf (24)
47:14,15,16,16,18;	168:11;175:20;
48:5;49:5,8;56:12,13; 63:12,15;216:20;	183:2,4,5,5;185:3,11, 13,16,19,23,25;186:4,
217:1,10,14	13,187:8,15,21;
winemaker (1)	188:14,18,21;246:11;
214:1	276:11,14
winemakers (2)	women (1)
214:11;217:8	24:8
winemaking (2)	won (2)
214:6;217:5	72:19;300:22
wines (1)	wonder (3)
47:24	117:21;212:20;
winner (4)	279:21
283:25;284:1,3,3	wondered (2)
wins (9)	135:25;243:6
27:15;50:17,17,18;	wonderful (2)
90:22;133:23;204:11;	124:4;139:18
216:18,24	wondering (13)
winters (2)	44:7;47:12;74:18;
261:4,5	87:13;154:18;204:20;
win-win (1)	236:2;243:23;251:5;

	257:17;265:10;290:5;	
	300:14	
(42)	wonky (1)	
(43) :13,14,17,	279:17 Wood (10)	**
5,19,23;10:2;	21:14,20;27:21;	v
2:2,7;13:1,	41:7;77:4,5;155:17,	v
17;43:21,24;	19;210:16;300:10	
9;97:25;	Woo-hoo (1)	
1:23;112:1,	297:23	
16;116:1,4,9;	word (11)	
25:25;126:4,	31:5;38:2,2;94:6;	
3;163:25; ;266:25;	102:21;148:8;159:25; 160:2;215:22;219:15;	**
,200.23,	267:1	v
ite (1)	wording (1)	v
(_)	192:17	
's (4)	words (3)	
;11:4;	36:8;38:5;148:14	v
	work (176)	
)	7:17,18;11:22;13:1,	
	17;17:25;18:1,12,14;	
42:24;	20:3,6,14;25:14; 26:14,15;27:25;	
98:12	29:15,23;31:10;32:1,	
)	4,20,22;33:14;38:12,	
, 2:2;47:23;	13;39:2;52:12;54:21;	
):18;81:13;	58:10,15;68:18;	
2:13;111:3;	70:12;71:5,9;74:1,2;	
0:14;154:21;	75:7,19,19,25;76:5;	
98:10;	78:15,23;80:3,18;	
4;257:25;	81:20,21;82:3;85:22;	
0:6;292:14;	87:2;89:23;90:5;92:9;	
.97:17	96:3;97:7,17;98:5,12;	
2) 5.25.20.	99:1,5,10,21;100:9, 18;101:6,17,19,21;	
5;35:20; 9;100:18;	102:3;103:2,23;	
239:23;	102.3,103.2,23, 104:9,25;105:7,17,24;	
5:17;299:14	106:21,23;108:23;	
(2)	109:1,6,8,18;111:11;	
99:4	112:7,13,14,18,20,25;	
	113:4;115:3,4,10;	v
75:20;	116:22;118:4,15;	
5,5;185:3,11,	119:4,25;128:3,25;	v
,23,25;186:4,	131:20;133:10;	
8,15,21; 8,21;246:11;	135:14;136:17;142:1; 148:4;150:3;159:8,	
4	21;161:19;163:22;	
•	169:10,13;170:4;	
	175:10;178:1,23;	v
	180:21;183:7;189:3;	
0:22	191:9,10,25;198:20;	
)	200:11;201:15,24;	v
212:20;	202:9;203:13;204:24;	
(\mathbf{a})	205:6,19,20;209:11,	
(2)	14,21,21;211:2,2; 212:4;221:4,7,25,25;	
243:6 (2)	212:4;221:4;7;23;23; 222:2;3,16;223:1;	
(2) (9:18	224:16;225:4;227:4,	v
g (13)	6;228:12,14;233:14;	
12;74:18;	255:7;262:25;264:14;	v
4:18;204:20;	265:10;269:14;	
2.22.251.5	272.10.276.10 12.	l

277:2:278:23:279:1; 280:25;283:15; 284:10,14;286:20; worn (1) 287:17,25;289:18 workable (3) worried (2) 162:5,6;254:21 worked (17) worry (1) 22:15;23:9;24:20; 73:2;119:5;132:9; worse (2) 135:4;136:21;138:22; 178:15;187:21;189:6; worst (4) 209:2,5;238:24; 264:1;291:4 workers (2) worth (1) 239:14;265:21 workforce (4) worthwhile (2) 100:2;109:7; 110:11;117:11 working (67) 12:15;18:9;22:12; 26:6;30:25;34:22; 38:17;42:22;49:12; 51:14;52:16;53:25; 59:23;61:6;68:21; 74:20;82:20,20;86:3; 98:20;99:19;101:25; 103:10;105:15; 106:16;109:20;110:5, 11,11;115:3,20,22; 125:14:136:23; 141:12;157:5;163:10; 174:3.23:191:19.22: 194:19:201:25; 202:23;203:14; 211:24;213:14;222:8, 12,18;224:10;226:17; 250:11;269:24;274:1, 6;278:11;279:1; 283:3,4,8;284:25; 285:13:286:13; 289:12;294:8;295:3 workload (1) 165:12 works (14) 12:2,15,21;46:25; 50:7;71:5;91:17; 177:10;188:9;207:12, 17;270:22;278:25; 281:22 workshops (4) 102:9;105:2;107:9; 122:20 world (14) 14:7;42:17,17;44:5; 65:9;74:17;122:22; 123:11;126:2;151:20; 234:12;244:16; 247:14;269:10 worldwide (2) 53:13:184:5 worm (2)

187:18:188:6

worms (4)

267:4,13 worthy (1) 118:7 **Wow (3)** 16:24;45:2;126:11 wrap (2) 28:12;93:8 wrapped (1) 105:23 wrestle (1) 66:9 write (3) 36:22;92:6;217:4 writing (5) 36:21:73:15:111:6: 264:16:278:8 written (17) 146:6:152:15: 154:13,14;173:21; 183:15;185:9;221:18; 226:5;240:17,22; 243:3;246:25;251:1; 266:21;269:19; 278:17 wrong (4) 26:3;184:7;224:8; 300:23 Wyard (20) 160:14;163:19; 168:10,12,13;170:19, 21;171:6,11;172:19, 25;173:4,7,12,16; 174:2,11,13,17,22 Y yard (2) 267:21,21 Yay (4) 7:9;70:18;72:21; 95:22

year (57) 19:12,12;20:19; 21:16,19;22:8,9;23:3, 4,11;24:20;26:14; 34:1;36:19;52:14,22, 22,22,23,23;53:2,5;

272:19;276:10,12;

	- `	Vol. 3
April	29,	, 2024

$\begin{array}{c c c c c c c c c c c c c c c c c c c $	~F8				r , , .
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	70.21.01.20.07.22.	103.15.241.4.	22.10.84.0 10 11	106.8	2001 (1)
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		· · · · · · · · · · · · · · · · · · ·			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				·	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	140:25;146:13;		252:23;258:21;269:8	180 (5)	184:9;278:12
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	147:17;179:4;189:20;	264:20	100,000 (2)	150:24,25;151:3,	2009 (1)
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	198:11:203:10:216:6;	York (2)	179:13:258:18	23;270:15	187:25
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $,			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		126:18		18th (2)	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	9:5;15:3;19:22;		277:10	117:22,24	2015 (4)
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	21:2.5.7.24:22:11.14:	Z	11 (6)	190 (1)	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		zin(1)			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	· · · · ·				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			95:4	1980 (1)	298:22
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	132:24;134:24;141:1,	Zoomland (1)	11:40 (2)	227:14	2018 (5)
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	9;146:15;148:5;	18:25	95:4,5	1980s (1)	171:22;282:18,23;
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		18:5			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		0			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		U			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	214:2;217:12;221:8;	80:1	55:5;102:5	254:1	2022 (7)
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	225:3;227:1,8;		1201 (1)	1992 (1)	98:7;195:8;229:4,
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	228:14;229:3;231:20;	1	146:15	124:20	12,16;282:6;285:19
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		1 (7)			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	20;282:4;286:23;	106:8;189:19	130 (2)	1st (1)	283:16;285:9;302:2
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	287:2;298:9;299:7,		29:3;71:3	102:7	2025 (2)
yeast (1)1,200-year (1) $229:15$ 22026 (4)214:7260:1614 (4)111:11;144:16;111:11;144:16;yellow (1)1,600 (1)62:15,16;67:1;2 (5)43:19;44:7;103:22;205.670 (1)273:744:4107:2143:19;44:7;103:22;205.670 (1)Yep (6)1,667 (1)140 (1)169:9;184:5205.670 (1)198:24;199:25;230:8;1,700 (2)142 (3)32:24164:6289:23167:2;269:8103:5;190:15;2,800 (1)205-605 (1)Yepsen (33)1,750 (1)192:18194:25247:8143:18,21,21;194:2414-member (1)215 (1)20-plus (1)146:7,15;147:3,22;1,800 (1)214:14142:424:20148:18;149:7,9;98:615 (8)20 (10)21 (1)150:18,20,25;151:4,10 (12)21:4,4,24;95:3;21:7;23:10;41:3;60:711,16;153:16;154:20;98:4;103:19,21;194:1;249:14;266:13;91:17;110:7;116:9;21,450-ish (1)156:11,14,17;157:17;108:8;134:24;153:12;280:20126:24;164:6;215:24;55:325;159:2,22;160:12247:9;248:2;249:14108:920,000 (2)10:23;40:9;98:16yesterday (1)10,000-fold (1)17 (2)70:21;74:523 (3)218:18225:14113:7;114:10200 (2)11:3;164:17;264:16	15,17		13th (1)		111:10:285:10
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				2	
yellow (1)1,600 (1) $62:15,16;67:1;$ $107:212 (5)145:6;146:5273:744:4107:2143:19;44:7;103:22;169:9;184:5205.670 (1)Yep (6)1,667 (1)140 (1)169:9;184:5276:2522:24;197:21;43:20192:152,000 (1)205-204 (1)198:24;199:25;230:8;167:2;269:8103:5;190:15;32:24164:6289:23167:2;269:8103:5;190:15;2,800 (1)205-605 (1)Yepsen (33)1,750 (1)192:18194:25247:8143:18,21,21;194:2414-member (1)21:5 (1)20-plus (1)146:7,15;147:3,22;194:2414-member (1)21:5 (1)20-plus (1)148:18;149:7,9;98:615 (8)20 (10)21 (1)150:18,20,25;151:4,98:4;103:19,21;194:1;249:14;266:13;91:17;110:7;116:9;21,450\cdotish (1)156:11,14,17;157:17;108:8;134:24;153:12;280:2021:7;23:10;41:3;60:7158:1,4,8,11,15,17,22;154:4;231:10;232:9;150 (1)244:322 (3)25;159:2,22;160:12247:9;248:2;249:14108:920,000 (2)10:23;40:9;98:16225:14113:7;114:10200 (2)11:3;164:17;264:16$					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				2 (5)	
Yep (6)1,667 (1)140 (1)169:9;184:5276:25 $22:24;197:21;$ 43:20192:152,000 (1)205-204 (1) $198:24;199:25;230:8;$ 1,700 (2)142 (3)32:24164:6 $289:23$ 167:2;269:8103:5;190:15;2,800 (1)205-605 (1)Yepsen (33)1,750 (1)192:18194:25247:8 $143:18,21,21;$ 194:2414-member (1)2:15 (1)20-plus (1) $146:7,15;147:3,22;$ 1,800 (1)214:14142:424:20 $148:18;149:7,9;$ 98:615 (8)20 (10)21 (1) $150:18,20,25;151:4,$ 10 (12)21:4,4,24;95:3;21:7;23:10;41:3;60:7 $156:11,14,17;157:17;$ 108:8;134:24;153:12;280:20126:24;164:6;215:24;55:3 $158:1,4,8,11,15,17,22,$ 247:9;248:2;249:14108:920,000 (2)10:23;40:9;98:16 $25;159:2,22;160:12$ 245:14113:7;114:10200 (2)11:3;164:17;264:16					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				· · · · · ·	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	· · · ·				
Yepsen (33) 1,750 (1)192:18194:25247:8143:18,21,21;194:2414-member (1)2:15 (1)20-plus (1)146:7,15;147:3,22;1,800 (1)214:14142:424:20148:18;149:7,9;98:615 (8)20 (10)21 (1)150:18,20,25;151:4,10 (12)21:4,4,24;95:3;21:7;23:10;41:3;60:711,16;153:16;154:20;98:4;103:19,21;194:1;249:14;266:13;91:17;110:7;116:9;21,450-ish (1)156:11,14,17;157:17;108:8;134:24;153:12;280:20126:24;164:6;215:24;55:3158:1,4,8,11,15,17,22;247:9;248:2;249:14108:920,000 (2)10:23;40:9;98:16yesterday (1)225:14113:7;114:10200 (2)11:3;164:17;264:16		1,700 (2)		32:24	
Yepsen (33) 1,750 (1)192:18194:25247:8143:18,21,21;194:2414-member (1)2:15 (1)20-plus (1)146:7,15;147:3,22;1,800 (1)214:14142:424:20148:18;149:7,9;98:615 (8)20 (10)21 (1)150:18,20,25;151:4,10 (12)21:4,4,24;95:3;21:7;23:10;41:3;60:711,16;153:16;154:20;98:4;103:19,21;194:1;249:14;266:13;91:17;110:7;116:9;21,450-ish (1)156:11,14,17;157:17;108:8;134:24;153:12;280:20126:24;164:6;215:24;55:3158:1,4,8,11,15,17,22;154:4;231:10;232:9;150 (1)244:322 (3)25;159:2,22;160:12247:9;248:2;249:14108:920,000 (2)10:23;40:9;98:16yesterday (1)10,000-fold (1)17 (2)70:21;74:523 (3)218:18225:14113:7;114:10200 (2)11:3;164:17;264:16	289:23	167:2;269:8	103:5;190:15;	2,800 (1)	205-605 (1)
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Yepsen (33)		192:18		247:8
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				2:15(1)	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
156:11,14,17;157:17;108:8;134:24;153:12;280:20126:24;164:6;215:24;55:3158:1,4,8,11,15,17,22,154:4;231:10;232:9;150 (1)244:322 (3)25;159:2,22;160:12247:9;248:2;249:14108:910:23;40:9;98:16yesterday (1)10,000-fold (1)17 (2)70:21;74:523 (3)218:18225:14113:7;114:10200 (2)11:3;164:17;264:16					
158:1,4,8,11,15,17,22, 25;159:2,22;160:12154:4;231:10;232:9; 247:9;248:2;249:14150 (1) 108:9244:322 (3) 108:9yesterday (1) 218:1810,000-fold (1) 225:1417 (2) 113:7;114:102000 (2) 200 (2)23 (3) 11:3;164:17;264:16					
25;159:2,22;160:12 yesterday (1) 218:18247:9;248:2;249:14 10,000-fold (1) 225:14108:9 17 (2)20,000 (2) 70:21;74:510:23;40:9;98:16 23 (3) 11:3;164:17;264:16					
25;159:2,22;160:12 yesterday (1) 218:18247:9;248:2;249:14 10,000-fold (1) 225:14108:9 17 (2)20,000 (2) 70:21;74:510:23;40:9;98:16 23 (3) 11:3;164:17;264:16	158:1,4,8,11,15,17,22,	154:4;231:10;232:9;	150 (1)	244:3	22 (3)
yesterday (1) 218:1810,000-fold (1) 225:1417 (2) 113:7;114:1070:21;74:5 200 (2)23 (3) 11:3;164:17;264:16	25;159:2,22;160:12			20,000 (2)	10:23;40:9;98:16
218:18 225:14 113:7;114:10 200 (2) 11:3;164:17;264:16					
		100 (20)	1,0,000 (1)	232.23,237.14	

	i		1
16.22.17.2.04.14.	201 (1)	225.7	0.02 (1)
16:23;17:2;94:14;	391 (1)	225:7	9:02 (1)
260:13;296:14	176:11	605 (2)	6:3
24.1 (1)		249:9;250:14	90 (7)
273:18	4	61 (2)	150:16;151:3,14;
24/7 (1)		102:23,24	225:22;240:5;258:23;
15:11	4,847 (1)	63 (3)	259:15
24th (1)	102:21	56:22;101:22;	901-2558 (1)
16:20	4:40 (1)	102:16	15:16
25 (2)	238:16	640 (1)	95 (1)
106:24;186:23	40 (6)	53:1	169:21
250,000 (1)	33:4;34:10;63:15;	65 (1)	96 (1)
10:24	127:9;270:15;272:1	260:20	176:9
25th (1)	400 (2)	66 (1)	97 (1)
97:22	70:23;71:10	11:1	259:14
26th (1)	44 (7)	67 (1)	98 (1)
98:7	98:4;102:7,8,20;	98:11	102:4
270 (1)	132:20;134:3;214:1	670 (1)	989 (1)
226:15	447 (1)	226:16	53:1
275 (1)	177:19	6th (1)	55.1
71:2	45 (3)	106:6	
280 (1)	107:20;137:19;	100.0	-
177:17	190:12	7	
29 (2)	45,000 (1)	1	-
33:7;164:16	44:4	7 (2)	
33.7,104.10	46 (1)	67:1;226:15	
3	184:5	70 (9)	
	48 (1)	34:4;39:10;56:1,5,	
3 500 (1)	296:14		
3,500 (1)	290:14	19;58:23;176:19;	
179:14	5	197:12;260:20	
3.2 (1)	5	700 (5)	
177:13	- (2)	51:23;52:2,17;	
30 (8)	5 (3)	53:23;61:20	
56:16;62:10;127:9;	162:16;183:24;	70s (1)	
169:11;171:24;	186:9	215:3	
182:15;266:15;302:2		779 (1)	
	5,300 (2)		
30- (1)	55:12,18	106:8	
30- (1) 221:8	55:12,18 50 (13)	106:8	
30- (1) 221:8 30,000 (2)	55:12,18 50 (13) 10:3;33:20,22;34:8;		
30- (1) 221:8 30,000 (2) 177:6;179:2	55:12,18 50 (13) 10:3;33:20,22;34:8; 98:5;127:9;155:1,10;	106:8 8	-
30- (1) 221:8 30,000 (2) 177:6;179:2 300 (5)	55:12,18 50 (13) 10:3;33:20,22;34:8; 98:5;127:9;155:1,10; 183:10;197:12;	106:8 8 (1)	
30- (1) 221:8 30,000 (2) 177:6;179:2 300 (5) 68:6;69:19,20;	55:12,18 50 (13) 10:3;33:20,22;34:8; 98:5;127:9;155:1,10; 183:10;197:12; 231:20;260:19,21	106:8 8 (1) 103:17	
30- (1) 221:8 30,000 (2) 177:6;179:2 300 (5) 68:6;69:19,20; 194:25;252:23	55:12,18 50 (13) 10:3;33:20,22;34:8; 98:5;127:9;155:1,10; 183:10;197:12;	106:8 8 (1) 103:17 80 (3)	
30- (1) 221:8 30,000 (2) 177:6;179:2 300 (5) 68:6;69:19,20; 194:25;252:23 30-plus (1)	55:12,18 50 (13) 10:3;33:20,22;34:8; 98:5;127:9;155:1,10; 183:10;197:12; 231:20;260:19,21 500 (1) 169:8	106:8 8 (1) 103:17	
30- (1) 221:8 30,000 (2) 177:6;179:2 300 (5) 68:6;69:19,20; 194:25;252:23 30-plus (1) 156:3	55:12,18 50 (13) 10:3;33:20,22;34:8; 98:5;127:9;155:1,10; 183:10;197:12; 231:20;260:19,21 500 (1) 169:8 5033 (1)	106:8 8 (1) 103:17 80 (3) 44:24;176:18;235:6 80,000 (1)	
30- (1) 221:8 30,000 (2) 177:6;179:2 300 (5) 68:6;69:19,20; 194:25;252:23 30-plus (1) 156:3 30th (1)	55:12,18 50 (13) 10:3;33:20,22;34:8; 98:5;127:9;155:1,10; 183:10;197:12; 231:20;260:19,21 500 (1) 169:8 5033 (1) 171:16	106:8 8 (1) 103:17 80 (3) 44:24;176:18;235:6 80,000 (1) 218:16	
30- (1) 221:8 30,000 (2) 177:6;179:2 300 (5) 68:6;69:19,20; 194:25;252:23 30-plus (1) 156:3 30th (1) 301:20	55:12,18 50 (13) 10:3;33:20,22;34:8; 98:5;127:9;155:1,10; 183:10;197:12; 231:20;260:19,21 500 (1) 169:8 5033 (1) 171:16 51 (2)	106:8 8 (1) 103:17 80 (3) 44:24;176:18;235:6 80,000 (1) 218:16 823 (22)	
30- (1) 221:8 30,000 (2) 177:6;179:2 300 (5) 68:6;69:19,20; 194:25;252:23 30-plus (1) 156:3 30th (1) 301:20 31 (3)	55:12,18 50 (13) 10:3;33:20,22;34:8; 98:5;127:9;155:1,10; 183:10;197:12; 231:20;260:19,21 500 (1) 169:8 5033 (1) 171:16 51 (2) 21:2;22:11	106:8 8 (1) 103:17 80 (3) 44:24;176:18;235:6 80,000 (1) 218:16 823 (22) 99:16;107:19;	
30- (1) 221:8 30,000 (2) 177:6;179:2 300 (5) 68:6;69:19,20; 194:25;252:23 30-plus (1) 156:3 30th (1) 301:20 31 (3) 263:20;266:16,17	55:12,18 50 (13) 10:3;33:20,22;34:8; 98:5;127:9;155:1,10; 183:10;197:12; 231:20;260:19,21 500 (1) 169:8 5033 (1) 171:16 51 (2) 21:2;22:11 5300 (1)	106:8 8 (1) 103:17 80 (3) 44:24;176:18;235:6 80,000 (1) 218:16 823 (22) 99:16;107:19; 127:25;139:25;	
30- (1) 221:8 30,000 (2) 177:6;179:2 300 (5) 68:6;69:19,20; 194:25;252:23 30-plus (1) 156:3 30th (1) 301:20 31 (3)	55:12,18 50 (13) 10:3;33:20,22;34:8; 98:5;127:9;155:1,10; 183:10;197:12; 231:20;260:19,21 500 (1) 169:8 5033 (1) 171:16 51 (2) 21:2;22:11 5300 (1) 57:1	106:8 8 (1) 103:17 80 (3) 44:24;176:18;235:6 80,000 (1) 218:16 823 (22) 99:16;107:19;	
30- (1) 221:8 30,000 (2) 177:6;179:2 300 (5) 68:6;69:19,20; 194:25;252:23 30-plus (1) 156:3 30th (1) 301:20 31 (3) 263:20;266:16,17	55:12,18 50 (13) 10:3;33:20,22;34:8; 98:5;127:9;155:1,10; 183:10;197:12; 231:20;260:19,21 500 (1) 169:8 5033 (1) 171:16 51 (2) 21:2;22:11 5300 (1)	106:8 8 (1) 103:17 80 (3) 44:24;176:18;235:6 80,000 (1) 218:16 823 (22) 99:16;107:19; 127:25;139:25;	
30- (1) 221:8 30,000 (2) 177:6;179:2 300 (5) 68:6;69:19,20; 194:25;252:23 30-plus (1) 156:3 30th (1) 301:20 31 (3) 263:20;266:16,17 31st (1)	55:12,18 50 (13) 10:3;33:20,22;34:8; 98:5;127:9;155:1,10; 183:10;197:12; 231:20;260:19,21 500 (1) 169:8 5033 (1) 171:16 51 (2) 21:2;22:11 5300 (1) 57:1	106:8 8 (1) 103:17 80 (3) 44:24;176:18;235:6 80,000 (1) 218:16 823 (22) 99:16;107:19; 127:25;139:25; 189:16,17,24;190:4, 11,14,18,22,25;191:2, 14;192:12,14,19;	
30- (1) 221:8 30,000 (2) 177:6;179:2 300 (5) 68:6;69:19,20; 194:25;252:23 30-plus (1) 156:3 30th (1) 301:20 31 (3) 263:20;266:16,17 31st (1) 98:11 33 (1) 266:15	55:12,18 50 (13) 10:3;33:20,22;34:8; 98:5;127:9;155:1,10; 183:10;197:12; 231:20;260:19,21 500 (1) 169:8 5033 (1) 171:16 51 (2) 21:2;22:11 5300 (1) 57:1 55 (1)	106:8 8 8 (1) 103:17 80 (3) 44:24;176:18;235:6 80,000 (1) 218:16 823 (22) 99:16;107:19; 127:25;139:25; 189:16,17,24;190:4, 11,14,18,22,25;191:2, 14;192:12,14,19; 201:18,21,25;203:2	
30- (1) 221:8 30,000 (2) 177:6;179:2 300 (5) 68:6;69:19,20; 194:25;252:23 30-plus (1) 156:3 30th (1) 301:20 31 (3) 263:20;266:16,17 31st (1) 98:11 33 (1)	55:12,18 50 (13) 10:3;33:20,22;34:8; 98:5;127:9;155:1,10; 183:10;197:12; 231:20;260:19,21 500 (1) 169:8 5033 (1) 171:16 51 (2) 21:2;22:11 5300 (1) 57:1 55 (1) 33:2	106:8 8 (1) 103:17 80 (3) 44:24;176:18;235:6 80,000 (1) 218:16 823 (22) 99:16;107:19; 127:25;139:25; 189:16,17,24;190:4, 11,14,18,22,25;191:2, 14;192:12,14,19;	
30- (1) 221:8 30,000 (2) 177:6;179:2 300 (5) 68:6;69:19,20; 194:25;252:23 30-plus (1) 156:3 30th (1) 301:20 31 (3) 263:20;266:16,17 31st (1) 98:11 33 (1) 266:15 34 (2) 9:5;33:5	55:12,18 50 (13) 10:3;33:20,22;34:8; 98:5;127:9;155:1,10; 183:10;197:12; 231:20;260:19,21 500 (1) 169:8 5033 (1) 171:16 51 (2) 21:2;22:11 5300 (1) 57:1 55 (1) 33:2 58,000 (1) 258:18	106:8 8 8 (1) 103:17 80 (3) 44:24;176:18;235:6 80,000 (1) 218:16 823 (22) 99:16;107:19; 127:25;139:25; 189:16,17,24;190:4, 11,14,18,22,25;191:2, 14;192:12,14,19; 201:18,21,25;203:2	
30- (1) 221:8 30,000 (2) 177:6;179:2 300 (5) 68:6;69:19,20; 194:25;252:23 30-plus (1) 156:3 30th (1) 301:20 31 (3) 263:20;266:16,17 31st (1) 98:11 33 (1) 266:15 34 (2) 9:5;33:5 35 (5)	55:12,18 50 (13) 10:3;33:20,22;34:8; 98:5;127:9;155:1,10; 183:10;197:12; 231:20;260:19,21 500 (1) 169:8 5033 (1) 171:16 51 (2) 21:2;22:11 5300 (1) 57:1 55 (1) 33:2 58,000 (1)	106:8 8 8 (1) 103:17 80 (3) 44:24;176:18;235:6 80,000 (1) 218:16 823 (22) 99:16;107:19; 127:25;139:25; 189:16,17,24;190:4, 11,14,18,22,25;191:2, 14;192:12,14,19; 201:18,21,25;203:2 888 (1) 15:16	
30- (1) 221:8 30,000 (2) 177:6;179:2 300 (5) 68:6;69:19,20; 194:25;252:23 30-plus (1) 156:3 30th (1) 301:20 31 (3) 263:20;266:16,17 31st (1) 98:11 33 (1) 266:15 34 (2) 9:5;33:5 35 (5) 113:16;177:9;	55:12,18 50 (13) 10:3;33:20,22;34:8; 98:5;127:9;155:1,10; 183:10;197:12; 231:20;260:19,21 500 (1) 169:8 5033 (1) 171:16 51 (2) 21:2;22:11 5300 (1) 57:1 55 (1) 33:2 58,000 (1) 258:18	106:8 8 8 (1) 103:17 80 (3) 44:24;176:18;235:6 80,000 (1) 218:16 823 (22) 99:16;107:19; 127:25;139:25; 189:16,17,24;190:4, 11,14,18,22,25;191:2, 14;192:12,14,19; 201:18,21,25;203:2 888 (1)	
30- (1) 221:8 30,000 (2) 177:6;179:2 300 (5) 68:6;69:19,20; 194:25;252:23 30-plus (1) 156:3 30th (1) 301:20 31 (3) 263:20;266:16,17 31st (1) 98:11 33 (1) 266:15 34 (2) 9:5;33:5 35 (5)	55:12,18 50 (13) 10:3;33:20,22;34:8; 98:5;127:9;155:1,10; 183:10;197:12; 231:20;260:19,21 500 (1) 169:8 5033 (1) 171:16 51 (2) 21:2;22:11 5300 (1) 57:1 55 (1) 33:2 58,000 (1) 258:18	106:8 8 8 (1) 103:17 80 (3) 44:24;176:18;235:6 80,000 (1) 218:16 823 (22) 99:16;107:19; 127:25;139:25; 189:16,17,24;190:4, 11,14,18,22,25;191:2, 14;192:12,14,19; 201:18,21,25;203:2 888 (1) 15:16	
30- (1) 221:8 30,000 (2) 177:6;179:2 300 (5) 68:6;69:19,20; 194:25;252:23 30-plus (1) 156:3 30th (1) 301:20 31 (3) 263:20;266:16,17 31st (1) 98:11 33 (1) 266:15 34 (2) 9:5;33:5 35 (5) 113:16;177:9;	55:12,18 50 (13) 10:3;33:20,22;34:8; 98:5;127:9;155:1,10; 183:10;197:12; 231:20;260:19,21 500 (1) 169:8 5033 (1) 171:16 51 (2) 21:2;22:11 5300 (1) 57:1 55 (1) 33:2 58,000 (1) 258:18 6	106:8 8 8 (1) 103:17 80 (3) 44:24;176:18;235:6 80,000 (1) 218:16 823 (22) 99:16;107:19; 127:25;139:25; 189:16,17,24;190:4, 11,14,18,22,25;191:2, 14;192:12,14,19; 201:18,21,25;203:2 888 (1) 15:16	
30- (1) 221:8 30,000 (2) 177:6;179:2 300 (5) 68:6;69:19,20; 194:25;252:23 30-plus (1) 156:3 30th (1) 301:20 31 (3) 263:20;266:16,17 31st (1) 98:11 33 (1) 266:15 34 (2) 9:5;33:5 35 (5) 113:16;177:9; 227:8;232:23;263:10	55:12,18 50 (13) 10:3;33:20,22;34:8; 98:5;127:9;155:1,10; 183:10;197:12; 231:20;260:19,21 500 (1) 169:8 5033 (1) 171:16 51 (2) 21:2;22:11 5300 (1) 57:1 55 (1) 33:2 58,000 (1) 258:18 6 6,262 (1)	106:8 8 8 (1) 103:17 80 (3) 44:24;176:18;235:6 80,000 (1) 218:16 823 (22) 99:16;107:19; 127:25;139:25; 189:16,17,24;190:4, 11,14,18,22,25;191:2, 14;192:12,14,19; 201:18,21,25;203:2 888 (1) 15:16	
30- (1) 221:8 30,000 (2) 177:6;179:2 300 (5) 68:6;69:19,20; 194:25;252:23 30-plus (1) 156:3 30th (1) 301:20 31 (3) 263:20;266:16,17 31st (1) 98:11 33 (1) 266:15 34 (2) 9:5;33:5 35 (5) 113:16;177:9; 227:8;232:23;263:10 3500 (1)	55:12,18 50 (13) 10:3;33:20,22;34:8; 98:5;127:9;155:1,10; 183:10;197:12; 231:20;260:19,21 500 (1) 169:8 5033 (1) 171:16 51 (2) 21:2;22:11 5300 (1) 57:1 55 (1) 33:2 58,000 (1) 258:18 6 6,262 (1) 102:1	106:8 8 8 (1) 103:17 80 (3) 44:24;176:18;235:6 80,000 (1) 218:16 823 (22) 99:16;107:19; 127:25;139:25; 189:16,17,24;190:4, 11,14,18,22,25;191:2, 14;192:12,14,19; 201:18,21,25;203:2 888 (1) 15:16 9 9 (2)	
30- (1) 221:8 30,000 (2) 177:6;179:2 300 (5) 68:6;69:19,20; 194:25;252:23 30-plus (1) 156:3 30th (1) 301:20 31 (3) 263:20;266:16,17 31st (1) 98:11 33 (1) 266:15 34 (2) 9:5;33:5 35 (5) 113:16;177:9; 227:8;232:23;263:10 3500 (1) 179:14 37 (1) 82:1	55:12,18 50 (13) 10:3;33:20,22;34:8; 98:5;127:9;155:1,10; 183:10;197:12; 231:20;260:19,21 500 (1) 169:8 5033 (1) 171:16 51 (2) 21:2;22:11 5300 (1) 57:1 55 (1) 33:2 58,000 (1) 258:18 6 6 6,262 (1) 102:1 6:13 (1)	106:8 8 8 (1) 103:17 80 (3) 44:24;176:18;235:6 80,000 (1) 218:16 823 (22) 99:16;107:19; 127:25;139:25; 189:16;17,24;190:4, 11,14,18,22,25;191:2, 14;192:12,14,19; 201:18,21,25;203:2 888 (1) 15:16 9 9 (2) 103:17;301:20	
30- (1) 221:8 30,000 (2) 177:6;179:2 300 (5) 68:6;69:19,20; 194:25;252:23 30-plus (1) 156:3 30th (1) 301:20 31 (3) 263:20;266:16,17 31st (1) 98:11 33 (1) 266:15 34 (2) 9:5;33:5 35 (5) 113:16;177:9; 227:8;232:23;263:10 3500 (1) 179:14 37 (1)	55:12,18 50 (13) 10:3;33:20,22;34:8; 98:5;127:9;155:1,10; 183:10;197:12; 231:20;260:19,21 500 (1) 169:8 5033 (1) 171:16 51 (2) 21:2;22:11 5300 (1) 57:1 55 (1) 33:2 58,000 (1) 258:18 6 6 6,262 (1) 102:1 6:13 (1) 302:1	106:8 8 8 (1) 103:17 80 (3) 44:24;176:18;235:6 80,000 (1) 218:16 823 (22) 99:16;107:19; 127:25;139:25; 189:16,17,24;190:4, 11,14,18,22,25;191:2, 14;192:12,14,19; 201:18,21,25;203:2 888 (1) 15:16 9 9 (2) 103:17;301:20 9,500 (1)	
30- (1) 221:8 30,000 (2) 177:6;179:2 300 (5) 68:6;69:19,20; 194:25;252:23 30-plus (1) 156:3 30th (1) 301:20 31 (3) 263:20;266:16,17 31st (1) 98:11 33 (1) 266:15 34 (2) 9:5;33:5 35 (5) 113:16;177:9; 227:8;232:23;263:10 3500 (1) 179:14 37 (1) 82:1	55:12,18 50 (13) 10:3;33:20,22;34:8; 98:5;127:9;155:1,10; 183:10;197:12; 231:20;260:19,21 500 (1) 169:8 5033 (1) 171:16 51 (2) 21:2;22:11 5300 (1) 57:1 55 (1) 33:2 58,000 (1) 258:18 6 6 6,262 (1) 102:1 6:13 (1) 302:1 60 (1)	106:8 8 8 (1) 103:17 80 (3) 44:24;176:18;235:6 80,000 (1) 218:16 823 (22) 99:16;107:19; 127:25;139:25; 189:16,17,24;190:4, 11,14,18,22,25;191:2, 14;192:12,14,19; 201:18,21,25;203:2 888 (1) 15:16 9 9 (2) 103:17;301:20 9,500 (1) 109:21	

UNITED STATES DEPARTMENT OF AGRICULTURE

NATIONAL ORGANIC PROGRAM

NATIONAL ORGANIC STANDARDS BOARD MEETING (NOSB)

SPRING 2024

Tuesday, April 30, 2024 Hilton Milwaukee City Center - Arena Wright Ballroom 9:00 a.m., CST Day 4

National Organic Standards Board (NOSB) Members Kyla Smith, NOSB Chair Amy Bruch, NOSB Vice Chair (Virtual) Nate Lewis, NOSB Secretary Brian Caldwell Jerry D'Amore Carolyn Dimitri Kim Huseman Mindee Jeffery Allison Johnson Dilip Nandwani Nate Powell-Palm Logan Petrey (Virtual) Franklin Quarcoo Wood Turner Javier Zamora (absent)

USDA/National Organic Program Staff Dr. Jenny Tucker, NOP Deputy Administrator Michelle Arsenault, Advisory Committee Specialist Erin Healy, Director, Standards Division, NOP Jared Clark, Acting Assistant Director, and

National List Manager, Standards Andrea Holm, Agricultural Marketing Specialist, Standards Heather Kumar, NOSB Technical Support Staff Johanna Mirenda, Agricultural Marketing Specialist,

Standards

AGENDA	
Livestock Subcommittee (LS)	
Brian Caldwell, Chairperson	б
2026 Livestock Sunset Reviews: Atropine Hydrogen peroxide Iodine Magnesium sulfate Fenbendazole Moxidectin Peracetic acid/ Peroxyacetic Acid Xylazine + Tolazoline Oxalic acid dihydrate DL-Methionine Trace minerals Vitamins	7 10 14 21 22 23 31 32 34 37 45 46
Materials Subcommittee (MS)	
Franklin Quarcoo, Chairperson Proposal: TR Template updates Discussion Document: Research Priorities 2024 Discussion Document: Inert Ingredients in Pesticide Products	52 52 68 81
Policy Development Subcommittee (PDS)	
Nate Lewis, Chairperson Proposal: PPM Updates	91 93
Compost Panel	
Doug Currier, Technical Director, (OMRI) Organic Materials Review Institute	104
Dr. Pat Millner, Research Microbiologist, USDA, Agricultural Research Service	109
Matthew Cotton, Owner, Integrated Waste Management Consulting, LLC	119
Tim Dewey-Mattia, Recycling and Public	130

Education Manager, Napa Recycling	
Crops Subcommittee (CS)	
Logan Petrey, Chairperson Proposal: Carbon dioxide - petitioned	184 184
2026 Crops Sunset Reviews:	
Hydrogen peroxide Soaps, ammonium Oils, horticultural Pheromones Ferric phosphate Potassium bicarbonate Magnesium sulfate Hydrogen chloride Ash from manure burning Sodium fluoaluminate (mined)	202 203 205 207 210 213 215 219 227 ***
Discussion Document: Compost Production for	229
Organic Agriculture - petitioned	
Adjourn	253

1 PROCEEDINGS 2 (Time: 9:00 a.m., CST) 3 CHAIR SMITH: Good morning. Good morning, everybody. 4 Welcome to day two. 5 I hope everybody had a fun night last night, good reception, lots of teas, cured meats, always fun times. 6 We 7 have a full day today. And welcome back to our Zoom 8 participants. And good morning, Logan and Amy. Okay, we have a full day today. We are going to hear 9 from the Livestock Subcommittee and Materials and Policy 10 11 Development Subcommittee. That's all before lunch. 12 And then when we get back from lunch, we are going to hear from a compost panel and then round out our day with the 13 Crops Subcommittee. So I'm just going to be passing the mic 14 off a lot today, which is good, because I did a lot of talking 15 16 yesterday. So I'm going to pass it over to Brian Caldwell. He 17 is the chair of the Livestock Subcommittee. 18 BOARD MEMBER POWELL-PALM: Thanks, Kyla. Do we need to do roll call? Do we need to do roll call? 19 20 CHAIR SMITH: Michelle says no. 21 BOARD MEMBER POWELL-PALM: Okav. 22 BOARD MEMBER CALDWELL: All set? All right, good. Just a couple of quick words before we start. A 23 little report, the Livestock Subcommittee has really been 24 focusing on the sunset reviews for the last six months. 25 But. T

Burke Court Reporting & Transcription (973) 692-0660

б

wanted to say that we really are keenly aware of the stresses 1 2 on livestock producers caused by the widely fluctuating grain 3 prices. And over the past three or four years, I know we've lost in New York State quite a few of the smaller dairies, and 4 5 I don't think they're coming back, mostly in the plain community. And I just really hope that the Strengthening б 7 Organic Enforcement Program will begin to stabilize supply and 8 demand in a way that we can move forward in a really positive And I'm so thankful that that is all happening. 9 way.

I want to point out that the Livestock Subcommittee 10 11 will be missing -- we will be losing two of our most 12 experienced and knowledgeable members at the end of this year, so please recruit people to serve on this Board who are 13 knowledgeable, deeply knowledgeable in livestock. And we will 14 15 then try to recruit them to be on the subcommittee. Really 16 appreciate that.

17 And after the sunsets, we will have a sneak preview 18 at the Meloxicam petition. So everybody will be really excited about that. 19

20 All right, now let's start with the sunsets. And we'll start with Atropine and Franklin, you're first. 21 Thanks. 22 BOARD MEMBER QUARCOO: Good morning, everyone. 23 BOARD MEMBER CALDWELL: I would love it if you would do that or somebody. Yeah, thanks. 24 25

BOARD MEMBER QUARCOO: So the first thing is

Burke Court Reporting & Transcription (973) 692-0660

7

Atropine. It's listed under 205603, synthetics allowed for use
 in livestock. Atropine is actually used for taking care of
 livestock when it comes to organophosphate poisoning.

But I'll talk about some of the restrictions shortly. 4 5 It's an animal medicine drug use classification. And you can use it by law only under the written consent or oral order of a б 7 licensed veterinarian. There are also restrictions like a mid-8 withdrawal period of at least 56 days after administering to livestock. Also, if dairy cows, there's a milk discard period 9 of at least 12 days. So all of these restrictions, I'll come 10 11 back to them later, and that's how they help.

12 The last TR was in 2019. So let's talk about what it So it is a naturally occurring alkaloid produced by plants 13 is. in the nightshade family. It is isolated from what we call --14 primarily from what we call the deadly nightshade, Atropa 15 16 belladonna. It's used as a component in both human and 17 veterinary medicine for a range of treatments, but the main one 18 that I talked about earlier is used as a treatment for organophosphate poisoning. 19

Now, there are a number of regulations. I will not go over them, but like I said, you are to have a licensed veterinarian permit it to be used. And it's usually used in very small quantities.

The primary source is assessed by extraction from plants in the nightshade family, and it yields what we call a 1 racemic mixture. It has -- okay, it reflects the polarized 2 light left and right. Level rotary to the right, level 3 rotatory to the left. But the racemic mixture, it combines 4 both of these. And that's what the actual atropine is.

5 It can also be synthesized in an acid-catalyzed 6 esterification reaction between tropine and tropic acid. But 7 the primary source is from plant extracts.

8 International acceptance is listed for use in Canada 9 as a health care product in production aids. But it has to be 10 as a medicine from herbaceous plants. European Union, not 11 explicitly mentioned. Codex, it is not listed. IFOAM is not 12 listed. Japan is not listed.

So let's talk a little bit about the human health and 13 environmental issues associated with atropine. They are used, 14 first of all, because of the restrictions associated with it. 15 You cannot use it unless a licensed veterinarian authorizes 16 17 And in small quantities, especially milligrams in which you. 18 it is used, it's not likely to cause a lot of environmental problems. There are no reported studies on the persistence or 19 concentration of atropine in the environment. What else? 20

It is largely degraded to tropine and tropic acid prior to excretion. And human beings, just like animals, we excrete it in the same way. It's regularly excreted in urine. It has a short biological half-life in hours.

25

So I want to emphasize that it is approved for use

only when ordered by the -- I know this is the third time I'm saying that, so, and then there's small quantities in which it is used. So it's not likely to accumulate in the environment and cause problems.

5 Committee discussions previously in written comments 6 were submitted in the spring of 2019. All commenters 7 recommended releasing it. And the materials satisfy our offer 8 criteria. And NOSB supports releasing it. And currently, the 9 comments that we've received are all in support of atropine. 10 So that's about it, if there are any comments or questions.

BOARD MEMBER CALDWELL: Okay. Last call, comments,
questions. All right, Franklin, well, you're up again for
hydrogen peroxide.

BOARD MEMBER QUARCOO: All right. So hydrogen
peroxide also listed at 205603. Synthetics allowed for use in
livestock production.

Okay, the last year was in 2015. What is it actually
used for? It's used in -- this agricultural disinfectants
containing hydrogen peroxide are being used for disinfecting
livestock, housing surfaces, and production equipment.

Give me a second. Okay. It's permitted for use in organic livestock production as a disinfectant, sanitizer, and medical treatment.

It is also permitted for use in products labeled as organic or made with organic ingredients. How is it

manufactured? It is manufactured using what we call the 1 2 anthraquinone auto-oxidation process. It's a two-step process. The initial one is a 3 4 catalytic reduction of an alkyl anthraquinone with hydrogen. 5 So it's a reduction reaction. And then it forms a hydroquinone. And then this is б followed by auto-oxidation of the hydroquinone in air to 7 8 regenerate the anthraquinone. And the hydrogen peroxide is 9 released. The simplified version is just an addition of 10 11 hydrogen and oxygen to form hydrogen peroxide. When you 12 simplify it, that's what it is. And you take out the 13 anthraquinone and other components. 14 International acceptance, it's allowed for use in Canada as a production aid in livestock production. Let me 15 16 look at the other places. European Economic Community, not 17 explicitly mentioned. And a few other places, CODEX not 18 explicitly mentioned. And that's about that. Now, talking about what is the main primary innate 19 ingredient in hydrogen peroxide, when we talk about ancillary 20 21 substances. 22 Some other products are listed, like salicylic acid, 23 phosphoric acid, benzoyl alcohol, acetic acid, citric acid, and there's one that's butoxypropan-2, xaloxypropan-2-0. 24 It's actually an alcohol, or alkanol, basically. 25

Let's talk about human health and environmental
 issues associated with it.

One of the things about it is that it is inherently unstable, which I'm going to get back to. It's unstable. The oxygen bond is weak, so it's unstable.

6 So at typical pesticide concentrations, it's expected 7 to degrade to water and oxygen. And degradation, it degrades 8 both in aerobic, that's when there's oxygen, and anaerobic 9 conditions. And when it degrades, the soil half-life is about 10 four hours in soil containing petroleum products.

11 So I've talked about the half-life, so I'll not go 12 into that again. But when it is released into the environment, 13 degradation, it's usually because of light catalyzing a 14 breakdown of the product. And it breaks down, and then there 15 are also chemical reactions with organic substances.

Now, one important thing that I want to point out is that light, oxygen, ozone, hydrocarbons, and free radicals in the atmosphere, the immediate -- they facilitate the hydrogenperoxide formation in quantities that are far larger than anything that we can produce. So that's an important point to note about hydrogen peroxide.

A lot of studies on skin sensitization, which suggests that hydrogen peroxide is not likely to be a sensitizer to mammals.

25

So I already talked about the half-life, but let me

now talk about, in soils, it's usually both in conditions where you have oxygen and out - without it we have about one to seven hours. So this is not a very stable compound. It breaks down pretty quickly, which is good, so it's not persistent.

5 It is considered slightly toxic to practically non-6 toxic to birds on an acute oral basis, which is a good thing. 7 It is also slightly toxic to aquatic invertebrates, practically 8 non-toxic to fish on an acute exposure level. In contrast to 9 the birds and all of these other micro-organisms, which is what 10 is needed for, they are very sensitive to hydrogen-peroxide, 11 which is both a good thing and a bad thing.

12 It's a good thing when you are trying to disinfect something, but some micro-organisms, like mycorrhizae and other 13 things are beneficial, some micro-organisms are also slightly 14 15 affected. But when it comes to animals, the quantities in 16 which they are used and how they are released, you are not 17 likely to run into that. When it comes to the plant session, 18 I'll leave that to my colleague to discuss what happens when they are released in larger quantities. 19

What else? So I'll move. There have been a number of studies -- the EPA has classified it as grass, like generally recognized as safe. There are some inhalation issues. Basically, if folks follow the recommended safety practices, you should be fine.

25

It's unlikely to cause chronic toxicity in humans

because it's rapidly broken down. Another thing I want to quickly mention before I get to the end is that it is actually used in dealing with moderate spills. So when there's an oil spill in an aquatic environment, hydrogen peroxide is used in the cleanup process. It's also being used to treat wastewater.

6 So most of the time, we are worried about what it 7 will do. But here's a case where they are actually putting it 8 in water to deal with a problem. So it tells you how we should 9 feel about it. So that's about most of the major things I want 10 to say about that.

In the fall 2019 meeting, the Livestock Committee received comments in favor of it. And the current comments received are also in support of releasing the product. That's about it. If there are any questions.

BOARD MEMBER CALDWELL: Yeah. Franklin, thanks. I really appreciate your thorough and careful thinking about all this.

I just wanted to point out that I think that hydrogen peroxide is a really important tool in the sanitizer suite and probably the most benign, simply as you pointed out, because it disappears very quickly into oxygen and water. So great.

Other comments, questions?
All right. Nate Lewis, iodine.
SECRETARY LEWIS: Let's see here. Iodine is listed
at 205-603-A as a disinfectant and then again at 205.603(b)(4)

1 as a topical treatment, typically in the form of teat dips.

As we all know, iodine has excellent antimicrobial qualities. It's used for surgeries, as a disinfectant during surgeries, and then most commonly used as a pre- and postmilking teat dip to support udder health in dairy animals.

Typically, iodine doesn't show up as just 6 Let's see. 7 pure iodine. It is complex with a variety of iodophors. And 8 then there are often a number of excipients added to iodine formulations. These excipients are allowed via the national 9 list at the excipient allowance. But that excipient allowance 10 11 does pave the way for some less-than-desirable materials to be 12 included in those formulations. Among those are a class of substances called nonylphenol ethoxylates, which I'll refer to 13 as NPEs for the rest of this introduction. 14

15 I thought it was kind of interesting that -- well, the things I find interesting might not be shared among 16 17 everybody. But iodine itself is fairly -- it's really harsh to 18 animal skin. So typically, moisturizers are added, and one of the most common ones is glycerin. But then we also find out 19 that there are some formulations that use lanolin, which I 20 21 thought was kind of just an interesting sort of cross-species 22 mixture.

23 So anyway, the glycerin that's used as a moisturizer 24 is allowed also on the national list at 603(a)(12), only 25 produced through the hydrolysis of fats and oils. Teat dips

are used around the world. All our trade partners allow 1 2 iodine-based teat dips. There are ancillary substances, as I've already explained, primarily allowed via the excipient 3 clause. And while iodine itself is not particularly toxic or 4 5 poses very acute concerns for human health and the environment, б those excipients, namely NPEs, do.

And NPEs are well known to be toxic to aquatic 7 8 organisms. They bioaccumulate in plants. And they've been shown to exhibit estrogenic properties in human studies. 9

So these are things that really -- these are a class 10 11 of substances that really don't align with organic values and 12 organic principles. And every effort, in my opinion, should be made to try to exclude them from the inputs we use in the 13 organic production practice. 14

As part of this work, the subcommittee did get a 15 16 limited scope TR to look at NPEs specifically in iodine teat 17 dip. That TR identified iodine teat tips as the largest 18 potential contributing source of NPEs on dairy operations. So if we think about the way these things would flow is they're 19 used on a cow that's then flushed into a manure lagoon, which 20 is then sprayed onto a field. And these NPEs have a direct 21 path to the runoff on a farm and would sort of accumulate into 22 23 those waterways. So it really, for me, is a particularly concerning element of the use of this substance. 24 25

We want to acknowledge and make sure the dairy

producers out there recognize that we completely support the continued use of iodine as a critically necessary tool. And I did not hear anyone on the subcommittee raising their hand to support any sort of delisting motion.

5 What we spent much of our time talking about was 6 whether there would be room to propose an annotation on iodine 7 teat tips to exclude those formulations that include NPEs as an 8 excipient.

9 And based on public comment, I think that's something 10 that we should continue to consider and potentially bring 11 forward in the fall would be a parallel motion to annotate 12 iodine and exclude nonylphenol ethoxylates from those used on 13 organic dairy animals or organic livestock in general.

I want to highlight one comment in particular from Beyond Pesticides that I think provided some pretty good language for that potential prohibition, which would be to not use the nonylphenol ethoxylates, but use the broader umbrella term of alkylphenol ethoxylates. So that's something I want to explore a little more, but I really appreciated that level of granular detail that they provided in public comments.

We also heard in public comments that it does not appear like it will be a challenge for producers to find formulas that are compliant with such a restriction. It may add another layer of compliance review for certifiers and their relationships with operations on their specific materials lists

and systems plan. But certifiers do this all day long for lots 1 2 of other materials. So while I really appreciate not wanting 3 to overload certifiers with all the new rules and all these 4 different things, this one seems fairly straightforward in 5 terms of how a review could be done. Typically, nonylphenol 6 ethoxylates or alkylphenol ethoxylates, which is the broader 7 class, are listed on MSDSs. So the review is, again, very 8 straightforward. These are not sort of hidden in a formula. They're usually listed pretty explicitly on an MSDS for a 9 product. 10

11 So anyway, these are all the concerns we'll be 12 weighing as we consider whether or not or how we would move 13 forward with a restriction on this substance. But I think it 14 would move the needle a little bit on reducing the impact 15 organic dairy farms are having on the environment to restrict 16 this substance somewhat. And I think that's about it. I'd 17 entertain questions or comments from folks.

BOARD MEMBER CALDWELL: Should I call on people?
CHAIR SMITH: Yes.
BOARD MEMBER CALDWELL: Okay. Allison?
BOARD MEMBER JOHNSON: Thanks, Nate. This is
helpful.
How does the NPE issue here interact with the inerts

24 process? It sort of -- it feels like jumping ahead to add the 25 annotation and restricting them, if we could then just sort of

have that be high on the list of inert review, but I know
 there's a staging issue.

3 Great question. They're actually SECRETARY LEWIS: 4 So nonylphenol ethoxylates and iodine teat distinct issues. 5 dips are not allowed via the list four allowance. They're allowed via the excipient allowance, which I don't have that б 7 reference at the top of my list. So NPEs are on list four. 8 NPEs are also allowed excipients. And so whatever we do with inerts will not affect iodine teat dips. 9

And so we may in the future want to take up 10 11 excipients and relive the joy of inert ingredients, but in 12 livestock products. In that case, we will probably want to address NPEs as a whole. But in this particular situation, 13 because it's not related to the inert ingredient issue, I think 14 it justifies the consideration of a specific annotation. 15 But 16 it's a great question and good clarification for the Board. 17 BOARD MEMBER POWELL-PALM: Yeah, Kyla.

CHAIR SMITH: Thanks, Nate.

18

25

As the Livestock Subcommittee is deliberating on how to frame this up, I just wanted to point out MOSES's comments. They had some good feedback and good questions to think about relating to excipients versus complexing agents versus are we listing task numbers and all those things and just pointing out what's currently in the ACA best practices document.

So I would just encourage the subcommittee to take

all those points into consideration. Thanks. 1 2 SECRETARY LEWIS: Appreciate the reminder. 3 BOARD MEMBER CALDWELL: Other comments, questions? Ι 4 guess I wanted to thank Nate again. Really, really good 5 thinking on this. And can you remind me of -- there's inert excipients, б 7 and then there's one other group of additives that are mixed 8 with -- there's one for food handling materials and one for medicines. And then inerts are for pesticides. I can't 9 remember how that works. 10 11 SECRETARY LEWIS: I'm not exactly sure. Is it 12 ancillary substances or nutrients? BOARD MEMBER CALDWELL: Ancillary substances. Yeah. 13 So -- and ancillary substances are for process products? 14 15 SECRETARY LEWIS: Well, there is a recommendation 16 related to ancillary substances used in process product 17 ingredients and how to do the review of those substances. 18 BOARD MEMBER CALDWELL: Excellent. I just wanted to kind of try to get it clear in my own mind and lay it out for 19 people that this issue of things that are mixed with main 20 21 ingredients is a big one. And I'm pretty sure that excipients 22 comes up next year for sunset review. And as I recall, the TR 23 said there are 8,000 excipients listed. So these are tricky to deal with, but we're dealing 24 25 with them, so that's great.

I also wanted to point out that Nate is on every single subcommittee. So he kind of knows everything, and we appreciate you putting in all of those hours.

SECRETARY LEWIS: Just to correct for the record, I
do not know everything.

BOARD MEMBER CALDWELL: Okay. All right. So anyother questions, comments?

8 Okay, we're going to move on to me, and I'm going to 9 talk about magnesium sulfate.

And that is listed at 205.603 as a disinfectant sanitizer in medical treatments. It is used for several veterinary purposes, mostly deficiency of magnesium and also digestive issues. And the one thing that came up while I was reviewing this that -- just kind of was a little bit of a guestion for me is that it can be either a mined or synthetic product.

And I think we need to get some feedback from the community about the availability of mined products, which if they were widely available and in common use, we might be able to get rid of this listing. But as far as I know, most of the products are synthetic, and I'm just not sure how available mined natural products would be.

But it's essentially a very benign substance. It's been on the national list since 1995. Magnesium sulfate is just that magnesium ions and sulfate ions are just ubiquitous

in nature, and there's no toxicity associated with the 1 2 compound. So it's good, I believe, in environmental reviews. 3 It's allowed by Canada and the EEC. And the other 4 ones that we always check, which is IFOAM and Japan and Codex, 5 don't list it. Written comments were that five were in favor б of relisting, and one specifically said we should investigate 7 this issue of whether there are non-synthetics available first. 8 And zero people called for delisting. 9 So I think that covers it pretty well. It's definitely essentially a benign substance that has some 10 11 important veterinary uses and has been in wide use for some time. 12 So any questions on that one? All right. 13 So Nate Powell-Palm, fenbendazole. 14 Thank you, Brian. 15 BOARD MEMBER POWELL-PALM: 16 I am one of those diehard livestock people who are 17 going to be leaving, so I wanted to echo Brian's call for 18 finding those folks who are excited about dairy, excited about poultry, just excited about the potential that animal 19 agriculture has for organic. 20 21 I have been privileged to be working with Kim on a lot of these different materials, and it's given me the chance 22 23 to think about our role as an organic community in ensuring that when we have livestock, living beings, as our partners in 24 food production, how do we treat them as well as we possibly 25

1 can?

24

And so we had fenbendazole, which will be used as a parasiticide. And you all can read what's up there. But the big thing that I realized over this time was how lucky we are to have veterinarians who are dedicated to studying and understanding this issue. How do we do livestock agriculture right in organic?

8 So I want to say thank you for all the veterinarians9 who serve the organic community.

10 Kim, could you tell me what a very wormy cow looks 11 like?

BOARD MEMBER HUSEMAN: I was about to ask you that. Well, she's probably pretty young and mangy. And with the proper treatment, she doesn't have to be mangy and gant and sickly.

16 BOARD MEMBER POWELL-PALM: And since you're going to 17 be doing moxidectin, I feel like we can have this little 18 conversation right now. When we're thinking about practices that are preventative for making sure we don't get parasiticide 19 outbreaks, we have a toolbox. Could you tell us a little bit 20 21 about what that toolbox includes? 22 BOARD MEMBER HUSEMAN: So the parasiticides? 23 BOARD MEMBER POWELL-PALM: For the parasiticides.

BOARD MEMBER HUSEMAN: Yeah. So we have

25 fenbendazole. We have moxidectin, and ivermectin was removed

1 from the national list. So we have two.

BOARD MEMBER POWELL-PALM: Yeah. And in discussing these materials with our veterinary community, this is a pretty good set. We have the materials we need in order to make sure that we are able to address parasite loads. We also have a lot of preventative practices that are going to be essential.

But this -- and when I think about me as a cattle 7 8 raiser, when you look at a young animal who just cannot thrive because they've got a parasite load, I'm so grateful that we 9 have these tools in order to relieve those young animals of 10 11 that pressure. We still want to focus on preventative 12 measures, but in thinking about how are we proceeding with making sure organic is the animal welfare rule, the animal 13 welfare standard, these materials give us a lot of support. 14

BOARD MEMBER HUSEMAN: And just to add on to that, I really appreciate the comments we got from the community. Pasture grazing is so important for our animals, and being able to continue to pasture graze and be able to treat when there's a concern. Obviously, proper rangeland rotation is helpful. Everyone we spoke to has an OSP. They have an emergency plan, and it includes using these parasiticides.

So really appreciate the support from the community to point that out and to bring that forward. I just feel like these are so essential to not only the beef industry, the dairy industry, but let's not forget that we also have sheep, the

24

wool industry, and organic goats as well. So the Montana farmers that want to speak about their four-legged friends that are used, the smaller four-legged friends that also have the benefits of these parasiticides. I don't want to leave those out either, but we've worked collectively.

We have a buddy system on our sunsets where there's a б 7 Then there's also a secondary person that helps to presenter. overlook the sunset for just a second set of eyes as we present 8 And Nate and I buddied up on this. So you'll hear from 9 these. us again in a little bit on a couple other projects. But this 10 11 has been a great one, I think, that we both support in the 12 community.

BOARD MEMBER POWELL-PALM: One quick note, or longer 13 note, that the community made was how -- in organic, kind of 14 building off of the testing question that CACS has been 15 16 discussing, how can we know what's out there? And I think that 17 we heard from veterinarians as well as other folks that fecal 18 testing, to understand what that parasite load is, is a really great tool. And I think as an inspector, I've not done a lot 19 of examination of fecal tests to try to understand when and how 20 21 are we making these assessments.

And so it seems like a point of improvement to have more education to producers, to bring that discussion more to the floor of certification. And that was something that we heard reflected in both written and oral comments. And I'm

1 going to kick it over to Kim to see if there's anything else 2 for moxidectin.

BOARD MEMBER CALDWELL: Well, let's go to questionsnow about this one, fenbendazole. Yes, Jerry.

5 BOARD MEMBER D'AMORE: Thank you. Fenbendazole, in 6 my first year, was right up front, and it was the thing that 7 told me that there can be horrors in this. And it was with 8 chicken layers and the worms in the eggs. And I called you and 9 said, hey, I need help. I really need to understand. Is there 10 another way to get this done? And at that point, you said to 11 me, yeah, just increase the range. Just give them more space.

12 It seemed that you almost said that here, but it 13 didn't come across quite that clearly. You're obviously 14 dealing with something that becomes more acute, and it has to 15 do with death rather than worms and eggs. Would that be a --16 help me understand that distinction if that's not right?

BOARD MEMBER POWELL-PALM: Yes. So for the livestock species that we're talking about in this listing, they're going to live a lot longer than a chicken. And so we're going to have periods of production where they're going to be more susceptible as they're getting out onto the pasture.

And so when we think about a heifer, say, a young calf, or a calf that's just getting out onto pasture, it's just a much weaker animal than, say, a full-grown dairy cow, who's going to have some built-in resistance. And so spreading them

out is one path. It's definitely the best path to try to get 1 2 as much range, as much space, move them out around as much. 3 But if, for some reason, they do pick up 4 parasiticides, it is a heavy load to bear, and especially for 5 animals that are going to live maybe 15 years, to protect this period of their production and make it so that we can have it б 7 so that they're not mangy and weak and suffering, it seems like 8 a really good tool to be able to have, not for slaughter, as the listing clearly states, but for a milk or fiber-bearing 9 animal that's going to go on to be a breeder stock or produce 10 11 milk or fiber. Thank you. 12 BOARD MEMBER CALDWELL: Other questions? Well, I have a comment about this. And that is that 13 I was involved in writing the NOFA-New York's first set of 14 15 organic standards in the early '80s. And this was 16 parasiticides -- oh, did I miss somebody? 17 Oh, excuse me, Amy, I'm sorry. Go ahead, Amy. Then 18 I'll rant. VICE CHAIR BRUCH: No, go ahead, Brian. That's fine. 19 20 I just had a comment, not a question. Go ahead. 21 BOARD MEMBER CALDWELL: Okay. Well, I'll be quick, 22 Amy, actually. 23 But parasiticides was an important issue that we were wrestling with then. And it still is. And this is almost 40 24 25 years later.

But I wanted to point out that our technical 1 2 assistant, Heather, is doing a comprehensive review of the 3 literature about parasiticides and basically management, 4 particularly oriented towards organic methods to reduce and 5 control parasites in grazing livestock. So this gets back to the question of when we put our research priorities out, how do б 7 we get that information back that may be out there in the 8 research community?

9 They may have done a study in 2014 that is very 10 relevant, but we don't necessarily capture that. Well, Heather 11 is going to look for those. And we really appreciate that. 12 And that is a way that we're trying to close this loop, this 13 information loop that's really, really important to moving 14 forward with all our sunsets and all our management techniques.

So Amy, go ahead. Sorry.

15

VICE CHAIR BRUCH: That was a great point, Brian.
That's really helpful to understand that work's being done.
And thank you, Heather, for helping us with that.

I was just going to say thanks to Kim and Nate. That was a pretty awesome delivery of a sunset. You represented the livestock producer voice very well, and it was really digestible for this grain farmer to understand the importance of the substance. So thank you.

24BOARD MEMBER CALDWELL:So Nate.25SECRETARY LEWIS:I think the comment I'd like to

make about parasiticides in general is sort of a foreshadowing 1 2 of some work that I'd like to see the Board do probably in the 3 CACS committee with support from livestock, which would be to sort of draw the line between all of the pieces of the 4 5 regulation that currently exists related to parasiticides. So we have a definition around the routine use of parasiticides. б 7 We have a prohibition on that practice in the livestock health 8 care standard.

9 We have with OLPS, a requirement that producers have 10 a parasite management plan. And we have some tools on the 11 national list with some complicated annotations. So I think 12 that's enough pieces of a jigsaw puzzle to end up with 13 something that could be really useful to try to harmonize 14 approaches. So I look forward to doing that work.

BOARD MEMBER CALDWELL: Great, thanks, Nate.
Other questions, comments? Okay -- well, oh, sorry,
Amy, I'm not used to looking at that. Go ahead.

18 VICE CHAIR BRUCH: No problem. Thanks for including19 me in the discussion.

No, Nate, I was just going to say I added that to the punch list. I think that highlights the nature of how the Board is morphing into cross-collaboration between subcommittees. So that was a good example of where CACS can assist livestock. And maybe we'll also hear some elements of that later on today with compost. So thank you. I've got it

1 on the punch list.

9

BOARD MEMBER CALDWELL: Great, that sounds really good.

Okay. We will move on to Kim, who is going to talk about moxidectin. And Kim is our other highly valued colleague who will be leaving us at the end of this term. And boy, we're going to miss Nate Powell-Palm and Kim Huseman very much. So go ahead, Kim.

BOARD MEMBER HUSEMAN: Thank you, Brian.

Well, Nate and I kind of doubled down on fenbendazole, and without repeating moxidectin, I'll just say that regionally, what's available for a parasiticide, it's more of a choice of which one you grab off the counter or what you have available.

15 I'll point out, just going a little bit more 16 formally, I think, through the listing, there are guardrails 17 around slaughter animals and prohibition on that front. The 18 milking guidelines, there's a component around that. It's 36 days following treatment of goats, sheep, and other dairy 19 species, cannot be used -- the products cannot be used --20 21 milking products cannot be used following treatment. In 22 conventional livestock, it's 10 to 14 days.

23 So there's definitely guardrails that have been put 24 up. It's been well-evaluated. Moxidectin, when it came on the 25 national list, it took a little bit of time and evaluation,

making sure that it was used as a parasiticide. 1 2 So I feel like there was a lot of work that had 3 already been done on that front. And yeah, I think, really, it's interchangeable, Brian. So if there's other questions, we 4 5 can proceed. BOARD MEMBER CALDWELL: Questions on moxidectin? б Ι 7 don't see any, and I'm looking at Amy. 8 So Nate Lewis, peracetic acid and peroxyacetic acid. SECRETARY LEWIS: All right. Peroxyacetic acid, 9 peracetic acid, PAA, is listed as disinfectant sanitizer and 10 11 medical treatment as applicable, 205.603(a)(24). 12 PAA, peracetic acid, is sort of the 2.0 version of the substance Franklin weighed in on with hydrogen peroxide. 13 It's a mixture of hydrogen peroxide and acetic acid, which is 14 the acid in vinegar. But similar to hydrogen peroxide, it 15 16 breaks down into benign -- it quickly breaks down into benign 17 substances in the environment. It is also unstable, so it does require the inclusion of some additional substances. 18 These are

So I think it sort of maybe goes into maybe a fourth bucket, Brian, of inerts, excipients, ancillary substances, and then sanitizer stabilizers? I don't know. But in any event, it remains necessary in livestock production. I personally feel like there's a critical need for producers to have a suite of sanitizing materials to help guard against resistance for

regulated by FDA and EPA as approved as sanitizers.

19

1 sanitizing on their farms, but I think with that, I'll handle
2 any questions.

I think there was one other thing that's in a similar vein to what Franklin described with hydrogen peroxide being used in cleanup. Peracetic acid has been effective in degrading toxic compounds in lake sediments, which I think has some interesting relevance to just its fate in the environment.

8 So with that, I'm happy to answer questions, but this 9 material remains necessary in production.

BOARD MEMBER CALDWELL: Questions for Nate?
Once again, another really important tool in the suite of sanitizers. So great, thanks, Nate.

13 Nat Powell-Palm is going to do two at once, xylazine 14 and tolazoline.

15 BOARD MEMBER POWELL-PALM: I inherited these two materials when we had a subcommittee switch around. So Amy got 16 17 us started off with these materials a couple of semesters ago. 18 And I really appreciate, again, kind of as a call out to folks recruiting members and future members of the Board, Amy did a 19 20 really great job dissecting exactly what these materials mean to the livestock community, even though she is not a livestock 21 22 producer.

And that's kind of the magic of the Board, with someone who is -- this is not their expertise, being able to get down and into the details enough to give us a

recommendation for where we want to see this go. Xylazine is 1 2 an anesthetic that's going to be used during surgical 3 procedures. And again, when I go back to our animal welfare, 4 I'm really glad that we have this material, so that if an 5 animal does need to have a surgical intervention by a veterinarian, we have a tool to keep it so that we don't have б 7 any incentive for producers to not have the necessary medical 8 treatment executed.

9 Tolazoline is what reverses xylazine, so they marry 10 up. Any questions?

11 BOARD MEMBER CALDWELL: Ouestions? I quess I have 12 just a quick comment, and that is that, again, so many of these 13 medical materials are used in such tiny amounts. You know, if you took the whole country together, it might be, like, I don't 14 know, a pint or something. I don't know what. Something like 15 16 that, so that the environmental impact is almost always small. 17 And we do have to be on the guard for sort of repeated, non-18 necessary use. But for operations, there's not going to be a lot of that. 19

But yeah, so I just wanted to kind of point out that the animal welfare aspect of this is so important, and the environmental impact, and as far as we know, human health impact is very small. So that's a positive for these materials.

25

Any other comments? Oka.

Now we go back to Kim for oxalic acid and oxalic acid
 dihydrate.

BOARD MEMBER HUSEMAN: I'm going to lean into what you just said for just a quick minute, though, Brian. I grew up on a farming ranching operation in southeastern Wyoming, where we had 300 head of cow-calf pairs. It was conventional.

But as a little girl, my dad was pretty insistent that we be free help. And so at 3 o'clock in the morning, in the middle of snowstorms, we were out pulling calves. And so I have a -- my mom, we'd go to the Z&W feed mill and pick up our 125 baby chicks every spring as well.

12 But my point to this is animal welfare and being 13 present and caring for animals is just a soft spot for me. So you'll find that I'm a huge advocate for what we can do. 14 I'm just going to prelude here for the fall. What we can do for 15 these animals is, I think, very important. But one animal that 16 17 I'm not familiar with is bees. So Wyoming is not a large bee 18 production space.

And I kind of wish that oxalic acid dihydrate were pushed into the next semester. And for all the people that are wanting to be on the Board, you don't talk about excipients, but if we can talk about how to control varroa mites in bee production, this is one potential opportunity for that. And then the other two are going to be coming up next year for sunset. So oxalic acid dihydrate is on the national list to use as a parasite control for apiculture, so in the bee industry.

The other two opportunities that have been presented on the national list are formic acid. And the last one, I'm going to forget how to say this, is SOEs, which is the sucrose octanoate esters. Those two will be coming up for sunset on the next session.

9 So this one is part of that. But to go back to it, 10 the oxalic acid dihydrate is used as a varroa mite control in 11 bee hives, as well as when you're moving bees. It is --12 studies have shown that it's more effective than formic acid. 13 And there was an opportunity to remove the sucrose octanoate 14 esters from the national list. It's still on the national 15 list. More to come there.

But all of that to say that oxalic acid dihydrate seems to be a choice, a top of the choice, for helping to control the mites and bees. There were two comments for the spring on this particular substance and both were supportive of relisting.

21 That's all I've got on bees.

BOARD MEMBER CALDWELL: Yeah, looks like we have aquestion from Wood.

24 BOARD MEMBER TURNER: Can you just give a quick 25 primer to those of us who are less connected to the livestock

activities sort of why the -- what's going on with the 1 2 apiculture standards within NOP? 3 If someone has the full BOARD MEMBER HUSEMAN: 4 rundown of this and would like to provide Wood a context, that 5 would be better than me. б Jared, do you have? 7 MS. HEALY: I can answer. So we currently have the 8 market development rule. These were -- apiculture was 9 initially kind of packaged as the third within that. It was not included in the market development rule. It is on -- I 10 11 believe it's on the long term list. If we can double check 12 that, Jared, if you don't mind checking that real quick. But we are not currently working on it. We did do 13 some research. It's an extremely complicated topic. 14 BOARD MEMBER CALDWELL: All right, so oxalic acid is 15 16 the acid that gives a bite to rhubarb. And formic acid is what 17 you smell when you step on an ant hive. So those are -- that's 18 just to know what these materials are that we're talking about. Pretty common in nature, but used in a synthetic way. 19 20 Nate, yeah. I just want to acknowledge that 21 SECRETARY LEWIS: 22 despite the program's reluctance to move forward on rulemaking, 23 there remains organic honey in the marketplace. So whether a standard or not, I don't want that to be used as a 24 justification for leaning in a sunset direction or a removal 25

1 from the national list. These remain, in my opinion, necessary 2 substances to produce organic honey, even in the absence of a 3 formal standard for apiculture.

BOARD MEMBER CALDWELL: Thanks, Nate. Yeah, good --5 really good point. Okay. This should be a fun one.

Nate Powell-Palm is going to talk about methionine. б 7 BOARD MEMBER POWELL-PALM: Thanks, Brian. When I was 8 21, I came from Montana where we really don't have chickens. So I did some inspections in the Midwest, kind of on the 9 Iowa/Illinois border. And I saw my first house of about 7,500 10 11 birds. And I was just so excited reading that OSP, being like, 12 what could this possibly look like? I've only ever seen these 13 barns from the outside. I've never gone inside.

And the thing that struck me most about walking that barn for the first time was just how clean it smelled. That I went to school in Iowa, I had always heard my friends blaming the chicken houses for why it stunk so bad. And I could say, that's not organic's fault. Organic is doing it right.

And I think that when we look at the materials that enable us to provide a house that has ammonia management, a house that is going to have comfortable birds that are not pecking each other, that are giving the time and consideration for how do we, again, treat these partners in food production rights. Methionine is one of those near magical substances that we have to help make sure that we're executing animal

welfare to the highest potential possible. 1 2 And so as a central amino acid, because we're not 3 able to provide all of our birds all of the insects that they 4 would need, to also expect them to produce 300 eggs a year, we 5 have this helper. And this helper is really -- I see it as a catalyst for making sure we can do everything else really well. б Any questions on methionine? 7 8 BOARD MEMBER CALDWELL: Nate? 9 SECRETARY LEWIS: I don't have a question. I have a 10 comment. 11 BOARD MEMBER POWELL-PALM: Please. 12 SECRETARY LEWIS: So I sit in the resource conservation seat for my day job, working with the Washington 13 Farmland Trust in aiming to preserve one of agriculture's most 14 critical resources, which is farmland. But when I'm not 15 16 working doing that, I'm working on my own personal farm. I've 17 been an organic broiler and layer producer for over 20 years in 18 Olympia. And this last winter was the first year that we decided to fully confine our laying flock indoors for 19 environmental concerns. 20 21 We sit on Puget Sound. I look at the world's largest 22 shellfish producer. And water quality is critically important 23 to me and my neighbors. We also had a really serious outbreak of avian 24 influenza that is now showing to be expanding into other 25

38

species and into humans. And we just felt that it was our
 responsibility to confine our laying flock.

I'm also trying to keep feed costs down as protein prices rise. And one of the ways I'm doing that is by sourcing local grains from my community and doing a small-scale fermentation of those whole grains rather than grinding them. That makes up about 30 percent of our ration, I'd say.

8 And what I noticed was when this approved and 9 compliant confinement occurred, and I would continue to feed 10 these grains, we were observing some of the behaviors that we 11 have heard from producers around what a methionine deficiency 12 looks like. That's nervousness, feather pecking, et cetera. 13 Once I added a premix, those symptoms went away.

14 So I think that experience underscored for me the necessity of having methionine on the national list. But it 15 16 also got me thinking about whether or not the current 17 annotation serves us. Two pounds is an arbitrary number. Ιt 18 has no basis in science. It luckily has been working for the industry is what I hear, based on the ability to average that 19 over the lifespan of the flock. So I'm encouraged by that. 20 21 But it doesn't resolve the issue that it's an arbitrary cap. 22 It has no connection to science.

And I just want the Board to -- I want to challenge the Board to think about annotations around how does it serve the community. Is this really moving the needle or is this

just providing another hardship for producers who don't need 1 2 anything else? So I'm going to be working with the livestock 3 subcommittee to consider bringing forward a parallel proposal 4 without the annotation on methionine for the fall meeting. And 5 I just wanted to share that with the community so that they're aware that that's something that I'm going be pursuing in the б 7 subcommittee level, that conversation and that potential.

8

BOARD MEMBER CALDWELL: Yeah, Kim.

BOARD MEMBER HUSEMAN: Nate, looking forward to this 9 next semester on the livestock subcommittee. It's going to be 10 11 a fun one. I think another component to this in listening to 12 the community about the high level of soy that's provided in the diet to try to get to a certain amino acid profile, you 13 know, looking at -- we have this as a research priority too, 14 but looking at alternative protein sources to help bring about 15 16 a better amino acid packaging. So we did hear from the 17 community that there's not a lot of organic sunflower meal 18 production in the U.S. I want to challenge that a little bit.

Canola meal, some other alternative proteins that aren't a one-for-one replacement or a solution wholeheartedly -- holistically, but a part of that solution package too. And really putting some emphasis on what we can do as a community to support other protein production meal products.

24BOARD MEMBER CALDWELL: Great. So, Wood.25BOARD MEMBER TURNER: Thanks. I want to just

Burke Court Reporting & Transcription (973) 692-0660

40

1 acknowledge, first of all, what I'm going to miss, obviously,
2 we're leaving the Board at the same time, but the storytelling
3 that you guys do to sort of help bring this livestock to life
4 for those of us who aren't as close to it is meaningful.

5 And Nate, you've got to -- Nate Lewis, you've got to 6 pick up the pace here in your storytelling because these guys 7 are pretty good at it.

8 I just want to acknowledge, and I'm jumping ahead a little bit to research priorities, but I just want to 9 acknowledge that this has always been on the research 10 11 priorities list, natural alternatives. And I just want -- can 12 you put this -- can you put that in context? I know you just -- I think you just addressed it, Kim, if I'm not -- if I was 13 hearing you correctly, just in terms of sort of what is the 14 research potential here? Like what is happening in this space? 15 16 Is it -- I mean, I always ask the question, and again, I'm 17 getting into a different subcommittee here, but why not do it 18 now?

You know, are these things -- are these priorities that just stay on the list because they just stay on the list because we want to see something happen and we're waiting for somebody to sort of step up and do the research, or is there -is there something happening here?

And I just -- I'd love for one of you to just address that, if you don't mind. BOARD MEMBER POWELL-PALM: I think over the last, oh, I'd say two years, Kim and Amy and other folks on the Board and I have had a series of discussions around both the pressures placed on feed prices, now the pressure placed on low grain prices, and the question that I think Dr. Benbrook articulated so well that we need more crops in our rotations.

And so we've been asking the question, what -- it's a 7 8 lot harder to make a novel food product from a, you know, quirky crop than it is to just feed that crop to, say, a 9 chicken and make something that everybody loves. And so as 10 11 we're thinking about the research priorities, building on what 12 Kim was saying, we have the potential to feed so many different crops that are so agronomically helpful to chickens or to dairy 13 cows or any other livestock. 14

15 And so I think we've evolved a bit in this 16 conversation for not necessarily just where do we find 17 alternative sources of methionine, but how is methionine a 18 catalyst for realizing a much more diverse landscape for the feed production that we're doing for these animals. 19 Building off of soybean meal, I look at southeast Wyoming right now that 20 21 has a glut of millet, a great livestock feed, but not enough nutritionists who are brave, telling their clients, try out 22 23 this in the ration or try out a different crop in the ration. And I hope with the research priorities, we're able 24

25 to grab those feed researchers and try to figure out how to get

Burke Court Reporting & Transcription (973) 692-0660

42

more of these ideas for how can we make really good balanced rations out of a much more diverse range of crops so that we can help those grain producers marry up this goal of a more diverse landscape that results in a more resilient system that we've all been talking about.

6 BOARD MEMBER HUSEMAN: If I'm going to add on to that 7 a little bit, Wood, I always like to use the imagery of if you 8 are a grocery shopper and you're tasked with going into a 9 grocery store to buy ingredients to make a cake, the 10 ingredients that you buy versus the ingredients that I would 11 buy might be different, but they both will make a cake.

And I'm not trying to underscore the education, the depth of knowledge, and the expertise of a nutritionist, but that's how I always looked at a nutritionist is their goal is to provide a well-balanced, highly effective diet for the animal, and generally that's at being conscious also of cost.

And there's a program called Concept Five. There's more programs too. And they'll set limitations of, we can put this amount of this product in, we can put this amount of this product in, how do we get to this finalized diet?

And I'm not saying that alternative protein sources are the 100 percent solution, because they're not. There's still synthetics that have to be involved or animal byproducts, which animal byproducts are not allowed in organic diet. It's a veg fed program. But I'm just saying that there's a

multitude of ways to get to a solution to help create a stable environment, a more stable environment where grain prices are stabilized, where producers feel like they're in a stable market, that there's availability within their sector, and that there's ways that we can bolster this community of domestic production to be self-sufficient. And all of these pieces are super important to that.

And I think Nate's comments and what we're going to work on this semester is a piece of that puzzle too. And my goal is to help provide a stable organic environment in the U.S. that the farmer, the producer, and the consumer can all feel comfortable about.

13 BOARD MEMBER CALDWELL: Great, thanks. Allison. BOARD MEMBER JOHNSON: Thank you. I think with so 14 many of these materials, we're weighing trade-offs and at the 15 16 risk of continuing the trend of sharing information that's only 17 interesting to the speaker, I'll just mention, I'm doing a lot 18 of work on reducing neonicotinoid use, and was recently looking at the Environmental Protection Agency's analysis of impacts of 19 neonics on endangered species. 20

And one of the major environmental sources is poultry litter. And so, being the food nerd, I go, why in the world are there neonics on poultry litter? And it's to control a beetle that can spread diseases. And so, of course, Google, how do organic producers deal with this beetle? And it's

keeping the poultry house clean and using a lot of
 environmental controls.

3 So it's an insect that could be a source of nutrition 4 that the chickens like to eat, but it also introduces disease 5 risks and a lot of other concerns. So this is one where б looking at insects is a great option, looking at other grains 7 is a great option, and then continuing to have this mix of 8 options, I think, makes a lot of sense, because the trade-off is more pesticide use, more other materials that are really 9 concerning. 10

BOARD MEMBER CALDWELL: Thanks, Allison. Yes,
Carolyn.

BOARD MEMBER DIMITRI: Just to bring this back to 13 your explicit question, Wood, which was about research 14 priorities and how this is playing out. And when I was at the 15 16 project director's meeting last week, there was a scientist 17 from ARS who's working in a team and they're actually working 18 on this particular problem and it's in development. And I already promised Nate Lewis that I would send along any 19 publications and his contact information. 20

21BOARD MEMBER CALDWELL: That's fantastic. That's22good news.

Any others? Okay.
Well, I think I'm up for trace minerals. And trace
minerals are synthetics that are used in small amounts, mixed

with feed rations or fed free choice to basically balance and 1 2 strengthen the rations that animals get. And so from this, 3 what we've been talking about earlier, they have a small 4 environmental impact. And in fact, they make the manure from 5 livestock operations actually have a better balance of micronutrients than if they weren't fed, which is something б 7 that I used to think about as a vegetable producer. They're 8 allowed by Canada, the EEC, Codex, IFOAM in Japan. Canada makes the explicit annotation that they must be without EDTA or 9 EDDHA, which are chelating agents, and we'll be talking a 10 11 little bit more about those later on in the meeting.

12 In terms of our written comments, we had quotes like, 13 almost all producers use these and "essential" were comments that people gave. Five comments were in favor of relisting. 14 15 Zero to delist. But a few of the relisting comments were 16 requesting an annotation to restrict the usage to situations 17 where the forage was poor quality. And my just quick comment on that, my personal comment on that is that I think that would 18 be really hard to enforce or oversee and not sure that it's 19 super productive. 20

21 But anyways, I think that's covering it. Any 22 questions on trace minerals?

All right, and now I will move along to vitamins.
 And kind of similar in some ways to trace minerals,
 basically used in feed rations to enrich them and make them a

really good full balance for the livestock. They are synthetic
 and used relatively in small quantities again.

In the written comments, five were in favor of relisting. And there were several comments that pointed out that vitamins B and K are not really needed by ruminants because they are produced by bacteria in the digestive process. So there's no current annotation about vitamins B and K. There's no restriction for their use, but that is something to think about.

Vitamins are allowed, again, by all the other certification programs that we check: Canada, EEC, Codex, IFOAM, and Japan. However, there's a big issue with vitamins that we're, again, this is the kind of thing that we're going to run into more later on in this meeting. But there was a TR request for vitamins, asking about whether excluded methods were used in the production of vitamins.

And we received the TR after these reviews were written, and I don't think they've been posted yet online. But the spoiler alert is that several of our vitamins do have high probability of having excluded methods being used in their production. And those are three of the B vitamins: B2, B8, and B12, vitamin C, and vitamin E.

And so we're going to really have to work on this one for the fall, and that TR will be available for you all soon. And so we'll be looking forward to a lot of comments on that.

So what would normally be a slam dunk, in my opinion, is maybe, 1 2 you know, some questions about it. 3 Any questions from the Board about that? Allison. BOARD MEMBER JOHNSON: Thanks, Brian. 4 5 I don't know, I think what you just said about FDA answers the question that I was forming, but I'll just 6 7 highlight tomorrow in handling, we'll be talking about nutrient 8 vitamins and minerals, which is one listing for handling. It's interesting that it's broken into trace minerals and vitamins 9 for livestock, and I think the annotation here is a little bit 10 11 clearer as far as looking to specific food additive 12 regulations. The handling one is sort of like, if it seems like a good idea to you. It seems like that is actually kind 13 of working okay in handling, but yeah, be curious, and we 14 15 should make sure that we have some alignment and strategy in how we deal with these. 16 17 BOARD MEMBER CALDWELL: Great, thanks, Allison. And 18 Nate Lewis. SECRETARY LEWIS: Oh, I was just going to mention 19 that I think they're broken out because of the way that AAFCO, 20 the American Association of Feed Control Officers, identifies 21 22 the materials. And so, yes, there's a little more definition 23 in the live -- it's sort of ironic, I suppose, if that's the right word, but that there is a little more definition and 24

Burke Court Reporting & Transcription (973) 692-0660

clarity around what you can feed livestock than there is around

25

1 what you can feed humans.

BOARD MEMBER JOHNSON: Yeah, I was having that reflection as well. I'm like, wow, there's actually pretty clear rules for animals, but not people. Sounds like FDA.

5 BOARD MEMBER CALDWELL: Okay, more questions about 6 vitamins. Well, now, for a quick sneak peek, we'll have Nate 7 Powell-Palm and Kim Huseman talk briefly, because we're coming 8 up to our break, about meloxicam.

Yeah, that's great. 9 BOARD MEMBER POWELL-PALM: We received a petition, and I think the thing I found most 10 11 remarkable was in -- I've gotten -- I've learned more about the 12 business of food over the last few years and how competitive it And so when I saw who was petitioning for this material, 13 is. it was basically the entire organic dairy industry and folks 14 who had obviously figured out how can we, for the betterment of 15 16 the animals that we're serving and partnering with, identify 17 ways to improve animal welfare.

18 And so hearing from those really well-researched companies who provided the petition for meloxicam, Kim and I 19 spent weeks just poring over all of the data, the incredible 20 21 amount of resources that they provided; and thinking, it's just 22 incredible timing, kind of at this semester in Livestock 23 Subcommittee to be thinking again about animal welfare. Are we making it so that we can reasonably say we're doing all that we 24 can to provide pain relief to these animals? 25

And when I think about, and Carolyn's going to side-1 2 eye me as I maybe cry, but when I think about the sort of 3 extraordinary act that dehorning a baby calf is, I just can't think that there's enough pain relief, that we can ever do 4 5 enough to really provide a meaningful justification, excuse, help to get this animal through that. But as we've heard, it's б 7 a necessary procedure. And so, the more tools we have in the 8 toolbox to provide relief, I think it's our obligation to 9 consider it.

And I am really excited to spend the next semester thinking about how do we consider this material for use in organic? And are we -- should we be looking for even more? How do we, as a community, assure ourselves, assure our customers that we are doing everything we possibly can to better animal welfare?

So, I'll just add to that. 16 BOARD MEMBER HUSEMAN: So 17 on -- whoops, I knew I was going to lose this. It was posted 18 to the federal, oh, thank you -- it was posted to the federal registrar April 23rd, I believe, the petition for meloxicam to 19 be added to the national list as a pain reliever in livestock. 20 21 As Nate mentioned, it was submitted by industry folks in the 22 dairy community from a multitude of organizations and included 23 a significant amount of detail to it. And it's been mentioned in public comment several times. 24

25

So if it was confusing, like, where did meloxicam

come from? It's not on any of the work that we've been doing. It was posted, like I said, after the close of being able to be added to the spring semester. But it's something that we want to put a lot of emphasis on over the summer to see where we can go with pain management for the livestock community.

б BOARD MEMBER POWELL-PALM: The only thing I'd throw 7 on there, and it should build on what Kim said, lots of times 8 we receive petitions from manufacturers who want to sell something. And I thought it was fairly remarkable that really 9 no one of the petitioners are going to financially benefit from 10 11 its use. It's straight up a means of trying to improve the 12 states, the condition of dairy cattle.

BOARD MEMBER CALDWELL: Great. Well, thanks so much, you two. And we are glad that you're going to be on the case for a little while here.

16 So I want to thank the Livestock Subcommittee for all 17 their hard work, and thank you all for your questions and 18 comments. And Kyla, I'm going to turn it back to you.

19 CHAIR SMITH: Great, yep, I just want to echo that.
20 I feel like sometimes livestock hasn't had some interesting
21 things to work on, and it sounds like now you do. So that's
22 awesome.

We're going to take a break. We're going to come back at 10:35. And I'm going to try to keep us on track. So see you at 10:35. 1 (Recessed at 10:23 a.m.; to reconvene at 10:36 a.m.) 2 CHAIR SMITH: Okay, everybody, we're going to get 3 started. Okay, up next, we are going to move to the Materials 4 Subcommittee, and I'm going to turn it over to Franklin. He's 5 the Materials Subcommittee Chair.

BOARD MEMBER QUARCOO: Thank you. Welcome,
everybody, to the Materials Subcommittee session of today's
activities.

9 We have one proposal and two discussion documents. 10 The proposal is on a technical review template update that will 11 be led by Mindee. And we have a research priority session that 12 will be led by Wood. And then an in-depth ingredients part of 13 our work that will be led by Nate.

14

So I'll go over to Mindee.

BOARD MEMBER JEFFERY: Thank you so much, Franklin. I really appreciate the Materials Subcommittee and all the work that everyone has done to bring forth this effort. I appreciate the program. I appreciate the technical review folks.

First, I'd like to look if we can take the slide downto the vote. Thank you so much.

And looking at that vote, that is one of the most tragic typos I have ever made in my life. So I beg your forgiveness in that the Materials Subcommittee is 100 percent clear that nobody voted no on this initiative, and that is an

absence. You can see it reflected in the notes from February
 when they're posted. And again, that one hurts my feelings,
 and I apologize.

4 So the Materials Subcommittee has been engaged with 5 the topic of updating the technical review template for two The first draft was a compilation of the feedback we б years. received from the community that creates the technical review 7 8 for us when we request information. In this version, the additional questions in the template are direct suggestions 9 from stakeholders who engaged with the discussion document. 10

In our discussion as a full Board, we externalized our clarity that the TR template is a tool for the Board and can be updated without a proposal. In the interest of collaboration, we brought the document forth for another round of comment.

16 An important note reiterated by stakeholders in 17 written comments, technical review is an NOSB mechanism for 18 upholding our mandate. The NOSB Policy and Procedures Manual states a subcommittee cannot proceed with a recommendation to 19 list a material if it is determined that there is insufficient 20 21 valid scientific information on that material's impact on the 22 environment, human health, and its compatibility with organic 23 principles.

In this round of comments, oral and written, we have some support from certifiers in the public comments, concerns 1 from a material review perspective, and requests for more time 2 to evaluate the implications of the additional questions in the 3 template.

There are also some very specific suggestions which materials can consider. There were many comments from different sectors of our stakeholder community in full support of this version of the template. The technical review process is a tool for the Board to make recommendations.

9 We engaged in a long process around this update because we are interested in collaborating with other entities 10 11 and how the technical reviews are informing organic decision 12 Specifically in regards to excluded methods, we making. understand that the biotech industry and the proliferation of 13 new technologies in the food system without peer-reviewed 14 safety testing, like the evaluation on novel proteins, looking 15 16 at this issue and asking these questions is the task at hand 17 for the Board. We've been requesting unanimously for many 18 years through the public process of stakeholder engagement in line with the mission of the NOSB on how, from an 19 infrastructure perspective, to be the leader in GMO disclosure. 20

This is the ask from the consumer. The excluded methods question are geared towards the now of the Materials Subcommittee's intention to tackle fermentation and the enormity of technological developments entering the food system across all of our subcommittees.

1 I encourage everyone to reread the public comments 2 from Friends of the Earth. Without overarching federal 3 engagement towards organic schools of transparency, we sit 4 facing a whole new set of challenges with great potential to 5 disrupt the organic marketplace. I do not want to go through another 15 years of explaining to the consumer the enormity of б 7 what organic is offering the food system beyond non-GMO. I do 8 not want to have to contextualize how we go about explaining how we protect ourselves from biotechnology because it's so 9 deep in the weeds of who we are as an organic system, it's 10 11 nearly inaccessible to their understanding, and we build their 12 trust on transparency and consistency.

I witnessed very painfully brands choosing natural over organic because they felt like the butterfly seal was enough to make it in the marketplace. I don't want to live with the backlash of what will happen to the organic conversation if we are not out in front of these issues.

This technical review process can demonstrate the Board's work with great confidence, addressing consumer concerns around biotechnology and many other areas of technical review that is our mandate under our criteria under the law.

The template provides transparency for material review process towards sound NOSB recommendation while leaning into consistency in our review processes.

25

I'm happy to hear all your questions.

Burke Court Reporting & Transcription (973) 692-0660

55

BOARD MEMBER QUARCOO: Thank you. Brian?

1

25

BOARD MEMBER CALDWELL: Yeah. Mindee, I wonder if you could just say a few words about transparency or the lack of it in terms of government labeling requirements and that kind of thing or government sharing information or not, requirements for maybe some of these new technologies.

7 BOARD MEMBER JEFFERY: Well, I don't see the 8 government in any agency providing us with transparency around 9 where biotechnology appears in the food system. I think the 10 USDA recently said, you don't have to disclose CRISPR in seeds. 11 So issues like that.

And then like -- and what's really hard for a consumer to know, like you see it a lot in the conversation between brands. Like one brand's a non-GMO brand and the other brand clearly has some of these novel proteins, but the consumer doesn't know that. And so there's often mistakes going on. And so it's really hard to read the systems and really hard to find these technologies.

And I feel like the consumer is asking organic to do this work for them. And I see it as a job that the government should do as a public trust. That like transparency in the food system and transparency at evaluating new inputs in the food system should be something that we should accept and know about. But I don't see it out there.

So like the Impossible brand is generally recognized

as safe, but my understanding is they self-declared, because when the FDA looked at their protein list, they only submitted one protein and there was 42 other proteins and they said, you guys have more proteins there and Impossible said, oh, I can back out and self-declare.

6 So it's a really complicated regulatory system out 7 there that doesn't lend towards transparency in any predictable 8 way. So that's why organic has to do this work because we have 9 the excluded methods prohibition and we have to do this work of 10 discovery for ourselves.

11 To my understanding, this is the only way we can do 12 this work of discovery is through this technical review 13 process.

BOARD MEMBER CALDWELL: Great, thanks. So just to 14 kind of filter it down in my brain, previously with some of the 15 16 more classic GMO traits, like Roundup resistance, glyphosate 17 resistance, the government required extra testing and identification of those in say even seed identification. 18 But now with some of these new techniques, CRISPR is one that you 19 mentioned, that is not going to be clear necessarily to the 20 21 casual observer and sometimes even to the close observer.

22 So that's kind of what's -- one of the big changes 23 that's happening now in addition to the just general 24 proliferation of new techniques. So great, thank you. 25 BOARD MEMBER QUARCOO: Allison.

BOARD MEMBER JOHNSON: Thank you. Mindee, thank you for your dedication and patience and work on this proposal. I know it's been a long time coming and has taken a lot from you. So we're grateful to you for seeing it through.

5 This is going to get tricky. I think -- I was just pulling up the number. So when the original NOP rules were б 7 proposed in 1997, they got 275,603 public comments, which at 8 the time was the highest number of public comments USC had ever And a lot of it was because people wanted to keep the 9 gotten. big three out: so GMOs, sewage sludge, irradiation. And those 10 11 continue to be, I think, really fundamental pillars of the 12 organic rule.

But GMOs are getting complicated. Excluded methods are getting complicated. And the only way that we can remain diligent in doing our job and setting lines in a thoughtful, science-based, and proactive place is if we have information about what's going on.

So I think we heard in public comments that it's going to be hard. There may be acknowledgment of gaps in information, like walls that we hit up against, but at least knowing where those places are, even that is informative. So I think the proposal's in great shape and I'm really grateful to you for bringing it forward.

BOARD MEMBER QUARCOO: Nate.

25

BOARD MEMBER POWELL-PALM: Oftentimes I feel like on

podcasts where folks don't know what organic is and they're 1 2 trying to explain it to each other, you hear this confusion 3 I mean, I feel like -- and it's embarrassing to about GMO. admit, but my own -- members of my own family have often said, 4 5 GMO is always organic, but organic isn't always GMO; is that right? And I'm just like, if those are my people saying that, б how much work do we have to do? To be able to say that from 7 8 the beginning we had this very lucid in our minds, what is the obligation that we owe to consumers for transparency? 9 And that's a huge point and selling point for our market. 10

I really appreciate this proposal, really appreciate the work you did, but I wanted to say that I don't think we've given you enough credit for having such a close understanding of what consumers are asking of us. And I think that is the heart of the retailer's seat for understanding where are consumers and how can we try to do everything we can to meet their expectations.

So thank you for leveraging those 15 years of insight to bring us this great work. And it was not an easy lift, appreciate it.

BOARD MEMBER JEFFERY: Yeah, thank you. I had a lot of fun in October for a really long time, making up games to play with the customers about, you know, what's the difference and what are we talking about here? And so, you know, it was fun in a lot of ways because the

contentiousness of this issue really made me have to explain
 organic in so many different ways.

And customers had a lot of fun. They would come into the store and say, we want to outsmart a good earthling. We have a question. And groups of them with their kids and people would come upstairs and be like, Mindee, somebody wants to take you down. Can you answer this customer question? So it is fun.

9 And I do really appreciate the opportunities I've had 10 to just talk to people about this, but it is so painful 11 watching the marketplace not understand the beauty of the 12 organic system and our opportunities in democracy with this 13 regulatory framework. So thank you.

BOARD MEMBER QUARCOO: All right. I have a queuegoing here. Amy, Nate, Jerry, and Kyla.

16 Amy.

17

VICE CHAIR BRUCH: Thank you, Franklin.

18 Mindee, thank you so much for your tireless efforts 19 in keeping excluded methods in the conversation so organic can 20 keep them out of our program. So thank you so much for all 21 your work.

Couple of things. I do share the same sentiment as Nate Powell-Palm with my social circles. There is still confusion about the difference between organics and non-GMO, and we need to clear that up.

I did notice on Erin's presentation yesterday with some of the marketing information that's extraordinary for the conversation of organics, we do state non-GMO under one of the pillars, that organic is non-GMO. So I think we owe it to the community to keep this in the spotlight, and I appreciate that you're doing that.

7 Can you highlight -- I believe there was, we didn't 8 have this formally approved as a standard, and that's I know 9 what we're discussing right now, this proposal on updates to 10 the technical report, but I believe handling leveraged some of 11 the questions that are proposed in this full rollout this round 12 for some of their sunset reviews.

Could you talk about some of those questions that were asked in handling and the results of receiving that information?

Yeah. I felt like we did a 16 BOARD MEMBER JEFFERY: 17 lot of strategy across subcommittees with our technical review 18 requests, sort of proof of concepting these extra questions for ourselves. And so there was vitamins, microorganisms, yeast 19 and enzymes, and citric acid. And so I felt like it was a 20 21 really diplomatic way to get a lot of people on the Board 22 looking at these questions and looking at the results of the 23 information that we got.

And so I was really happy with that crosscollaboration and with that level of investigation into the 61

1 requests that we're making. So I'm really happy that we got to 2 do all that. And I'll just say, Alison or Brian, as the 3 Handling and Livestock Subcommittee chairs receiving those TRs, 4 did you want to say anything about that or --

5 BOARD MEMBER D'AMORE: I'd be happy to, but we'd have 6 the same conversation again in a couple -- well, tomorrow at 7 this time, and I'll take any lead that you give me. I just 8 want to lend my voice to the work that Mindee's done and the 9 passion. I can't elaborate because I'm just flat overwhelmed.

10 Thank you. So I can speak to -- I think we have a 11 huge issue. I think the TR, particularly the one for 12 microorganisms, enzymes, and yeast helped us see that very 13 clearly. And for me, it was particularly painful to go through 14 that simply because I do not have some of the background that 15 other folks have in terms of certification and inspections and 16 all.

When I got that TR to look at, it freaked me out. I needed help from my own subcommittee to get right about what I was looking at and to put it into context. It's that complicated and, for me, that important.

BOARD MEMBER JEFFERY: Same, Jerry. I can't do this work without the level of experience that we have on this Board and collaborating. Totally appreciate so many people in that way.

25

SECRETARY LEWIS: And I'll offer -- I'll dive into it

a little more when we do the citric acid sunset report out 1 2 tomorrow, but just for the purposes of this subcommittee and 3 moving this proposal forward, I just want to acknowledge that we, as the Board, use these TRs to evaluate substances that are 4 5 petitioned and as part of our legally required duty in the sunset review, but these TRs are also used by primarily б certifiers who are the front lines of our non-GMO claim. 7 They're the ones making sure every seed planted on an organic 8 farm is a non-GMO seed. 9

They're the ones making sure every ounce of citric 10 11 acid used in a formula to keep your pesto green is made from a 12 non-GMO source, et cetera. So the more information that we can provide to certifiers to make sound decisions, I think the 13 14 better. And I think in the citric acid sunset exercise where we incorporated some of these questions as a trial, we got a 15 16 lot more information. And I am hoping that that additional 17 information will make certifiers' jobs easier in saying yes and 18 no to particular formulas within the context of an operations system plan. 19

I think that underscores a commitment that I'm willing to make as a second year on the Board and I will be here for three more years after this, that this isn't carving the TR template into a stone tablet. This is a necessary update, and it's something that I personally commit to revisiting should the impacts of these additional questions and

the information they yield be problematic for the certification
 community and their evaluations of systems plans.

3 So this is not, yeah, again, carving into the stone 4 tablet of TR templates, this is an iteration and a continually 5 evolving effort to keep GMOs out of organic and substantiate 6 that claim that we hold dear to the industry.

BOARD MEMBER QUARCOO: Thank you. Kyla.

7

8 CHAIR SMITH: I'm jumping on the Mindee praise 9 bandwagon, but I also wanted to just say that information 10 related to these extra questions that have been added has been 11 previously provided in TRs, not to the depth and level that we 12 will get now, but it's been there. And so it's not that this, 13 I don't know, information hasn't been known, it has.

I want to echo Nate's point about certifiers using the TR templates, and that -- especially in cases where something isn't black and white. I mean, we live in the grey a lot. And we heard from public comment that that is when this additional information is most valuable to certifiers to create those consistent decision-making around exclusion methods in material review.

And we have more work to do, like we have more things to figure out because we need to have more policies and procedures, particularly related to fermentation. And I know that that's something that the Materials Subcommittee wants to work on.

So, yeah, I just am echoing, I think, that we can 1 2 move this forward and we will keep evolving, and I appreciate 3 your diligence. 4 BOARD MEMBER QUARCOO: And one last question from 5 Dilip. BOARD MEMBER NANDWANI: Thanks, Franklin. б 7 It's not a question, it's just a comment what other 8 fellow Board members have said that I echo. You know, thanks, Mindee, for your leadership on this one. 9 And I would say that this is very timely, because 10 11 we've been dealing and discussing a lot of -- some of, if not a 12 lot, challenging materials and let's say excluded methods. So this is very timely. I'm not sure when was the last we updated 13 14 the TR. When I review my materials, I read sometimes TAP, I 15 16 think, and now and then we say TR, and I'm not sure when was 17 the last TR was reviewed. So this is really, very timely. So 18 thank you for leading on that, I appreciate that. BOARD MEMBER QUARCOO: Yeah. Yes, I made a mistake 19 20 of leaving my comments about Mindee's to the end, so now I have 21 to follow everybody else. And Mindee is one of the most 22 persistent and unwavering people I've met, and especially on 23 this issue of TRs and excluded methods. And when I got on the Board, she quickly drew me 24 close, started teaching me the ropes. I still don't know my 25

1 way around. I'm still groping in the TAP, she's still helping 2 me. 3 But I 'm sure it's going to be an ongoing process. 4 And Wood, who is about to go for their research priorities, has 5 also been showing me the ropes, and I'm very grateful. So that takes us to the discussion document session. б 7 CHAIR SMITH: We've got to vote. 8 Okay, first vote. So give me a minute, I've got to 9 put my glasses on. So this -- can you make the slide bigger on the 10 11 screen, please? Thank you so much. Okay, so this motion comes 12 to the full Board from the subcommittee. Motion to accept the proposal on TR template updates 13 for handling and crops and livestock. It was motioned by 14 15 Mindee and seconded by Nate. We're going to start the voting with Kim. 16 17 BOARD MEMBER JEFFERY: Do we need a motion to go to 18 the vote now on this proposal? CHAIR SMITH: I don't think so. It comes, motioned 19 20 and seconded. 21 Okay. Yes, Nate? 22 BOARD MEMBER POWELL-PALM: You betcha. 23 CHAIR SMITH: Dilip? BOARD MEMBER NANDWANI: Yes. 24 25 CHAIR SMITH: Franklin.

Г	
1	BOARD MEMBER QUARCOO: Yes.
2	CHAIR SMITH: Nate Lewis.
3	SECRETARY LEWIS: Yes.
4	CHAIR SMITH: Allison.
5	BOARD MEMBER JOHNSON: Yes.
б	CHAIR SMITH: Brian.
7	BOARD MEMBER CALDWELL: Yes.
8	CHAIR SMITH: Jerry.
9	BOARD MEMBER D'AMORE: Yes.
10	CHAIR SMITH: Carolyn.
11	BOARD MEMBER DIMITRI: Yes.
12	CHAIR SMITH: Wood.
13	BOARD MEMBER TURNER: Yes.
14	CHAIR SMITH: Mindee.
15	BOARD MEMBER JEFFERY: Yes.
16	CHAIR SMITH: Logan.
17	BOARD MEMBER PETREY: Yes.
18	CHAIR SMITH: Amy.
19	VICE CHAIR BRUCH: Yes.
20	CHAIR SMITH: And the Chair votes yes.
21	SECRETARY LEWIS: 14 yes; zero no; one absent. The
22	motion passes.
23	CHAIR SMITH: Back to you, Franklin.
24	BOARD MEMBER QUARCOO: Okay. So we move on to recite
25	priorities for 2024. I hand over to Wood.
L	

1 BOARD MEMBER TURNER: Thanks. I -- you know, I just 2 didn't join the chorus on that last round, but I just wanted to 3 say I -- you know, I'm reminded every day that this is -- what we're doing is imperfect. It's always been imperfect. 4 And as 5 one of the foundational documents of this country, we're always б on the quest to be more perfect. So I appreciate what we just 7 did, and I appreciate where we're going, and so many different things, including research priorities. 8

9 It's an imperfect process. I've said this several times over the last several years in terms of trying to think 10 11 about how to make this document more useful, less perfunctory, 12 more reflective of changes that are happening, more reflective of new perspectives. And, you know, I think we continue to do 13 And I think, you know, part of having worked on it now 14 that. myself in this subcommittee for a couple of years, I sort of 15 16 feel I'm getting more and more clear about it. More and more 17 perfect, I quess. Not anywhere close to that yet, but trying 18 to.

So, you know, we've done a few things this time that I think are reflecting that. One of the things that you all know is that we've tried to add something to the mix here that I really want to say my appreciation to Brian for bringing this idea forward. The idea of trying to prioritize the priorities, sort of categorize the priorities a little bit more clearly, adding some nuance to sort of the list as it is, what are the

priorities that we in subcommittees think are the most 1 2 important, need the most attention. What is the signal we 3 could send to the community to say please -- please move forward on these ones if nothing else gets done, move forward 4 5 on these priorities. And still maintain kind of a core list of ongoing priorities that probably are part of that quest toward б 7 more perfection, you know, that are never going to get done 8 necessarily, but could always use more insight.

9 So I want to thank everybody for being involved in 10 that in subcommittees, sort of in this latest discussion 11 document, trying to do some of that ranking, if you will, you 12 know, in our subcommittees by prior -- in our priorities by 13 subcommittees, so thanks for that.

14 The comments were fairly limited this time. I think we only heard a handful of comments from the community and 15 16 specifically related to any of these. I mean, there was 17 generally strong support in those comments that we did hear. Ι 18 thought there were some interesting things to consider, two comments in particular: one that suggested that we add some 19 dimension to kind of an ongoing piece of research around BPA, 20 21 really adding phthalates and plasticizers to that research 22 priority. I think that's an interesting one and consistent 23 with I think a lot of the things that we're trying to do from a Board perspective. I'd love to hear any thoughts on that. 24 Another comment that was focused on the need to --25

1 under -- elevating some of the priorities that are 2 socioeconomic in nature, just to reflect some of the issues 3 that I think, you know, are really important to this community 4 and exist in a broad perspective -- from a broad perspective.

5 You know, there's one that I -- it's funny that I 6 mentioned the DPA, phthalates and plasticizers one, because 7 there's another one that comes up a lot in various forums about 8 how we use the research priorities to talk about this ongoing 9 issue of plastics in organic or plastics in agriculture. I 10 don't see that personally as a research priority. I see that 11 as just an imperative that we're all working on.

I don't know what the research actually is on that.
The research is, let's find pathways out of this. And I, you know, tell me that I'm wrong.

I'd love to hear others tell me that that's -- to me, that's not what this list is intended to do. The list is intended to sort of provide some granular ways to sort of dig in on specific things that do need research. I'm not sure we, correct me if I'm wrong, I don't think we need research on whether, on how to get plastics out of our food system.

But anyway, I'll leave my comments at that. I -again, thank you all for being involved in the process. And I just want to see if there's any questions or comments on the document and feedback that we've heard.

BOARD MEMBER QUARCOO: Mindee?

25

BOARD MEMBER JEFFERY: I just wanted to say thanks 1 2 for your work on this. When we first came on the Board and 3 Steve Ila was recruiting us all quickly into leadership positions, he asked me about being the Materials chair. 4 And I 5 said, no way, I can't do research priorities. Wood's going to be great at that. And it's really played out. And I б 7 appreciate your passion and the updates you've made. And thank 8 you so much for your focused work on this.

9 BOARD MEMBER POWELL-PALM: When I first got on the 10 Board, I could not understand what the point of research 11 priorities was. And I'm starting to get a little bit -- I'm 12 feeling okay for myself on that confusion because the through 13 line is not there yet. And I really appreciate hearing from 14 Mark Lipson saying, like, where is the research?

And I really appreciate you, Wood, for continuously helping us ask that question. What does this mean? Why are we doing this? What does it result in?

And so the prioritization, I think we allowed ourselves to say there are certain things that we don't really have questions on anymore, or they're so big that maybe they're not really an ask to the research community. And I'm really excited at the prospect of this becoming a much more useful list, that we will actually see papers come out of this, see research that means something come out of this.

25

And so I encourage all future Boards to take this

1 work very seriously and figure out how do we get more of a 2 dialogue with the research community so that we can be more 3 useful in our articulation of what we need.

4 CHAIR SMITH: Yeah, on a similar theme, I feel like 5 we're maybe starting to get some information back and more of 6 that would be really valuable. So we heard from Aaron 7 Sullivan, the public comment about the research being done on 8 alternatives to celery powder. Carolyn mentioned some stuff 9 coming around with the methionine.

And so I don't know how best to continue to ask for that feedback loop, but I encourage -- I don't know, anybody to just keep working on that.

And then I just wanted to highlight, and maybe this is part of it, is that one of the comments noted that we haven't had someone from NIFA come since 2022, and perhaps having someone come back to speak to us at an upcoming Board meeting would be useful.

BOARD MEMBER TURNER: Yeah, you stole my thunder on my parting comments.

20 CHAIR SMITH: So sorry.

BOARD MEMBER TURNER: I was going to ask for a NIFA presentation at the fall meeting, so I'm formally doing that now. So thank you for bringing that up.

And thanks also for the loop back on celery powder and methionine, because I do think there are applied examples 1 that we're hearing all the time from folks, and I forgot to 2 mention that, so thanks.

3

BOARD MEMBER QUARCOO: Yeah.

BOARD MEMBER DIMITRI: So I mean, I guess I'm extremely fortunate because I was able to go to the OREI project director's meeting last week and then come here, but, you know, we're still talking about the role of the food techs, but could that be one of their activities is they go to that meeting, which is held every year, and then they give a report back to the Board about the research that's ongoing?

11 BOARD MEMBER TURNER: I think it's a good suggestion, 12 and maybe for the time being it's a combination of both. Let's 13 get NIFA back out to talk to us in an open Board session, but also maybe make that a priority, because I think it does need 14 -- I mean, I think we were in that uncomfortable period in 2022 15 16 where we said, to your point, Nate, what's going on? What's 17 happening here? Can we hear from the research community?

And, you know, all of a sudden it's two years later, two-and-a-half years later, and we need to hear from them again, but I think a more regular check-in would be really helpful and would be meaningful to all of us, because it's hard to track all this. It really is hard to keep track of all of it.

And I know it finds its way into our work, I know it finds its way into TRs, it finds its way into all kinds of 1 things, in so many ways, but it's hard sometimes to track it, 2 and so I like that suggestion. 3 BOARD MEMBER QUARCOO: Allison. 4 BOARD MEMBER JOHNSON: Thank you. I love the idea of

5 bringing someone from NIFA back. I wonder -- I want you to 6 hear them, but I wonder about next year, actually, as I 7 remember having them come as one of my early meetings, and it 8 was a nice way to kind of get introduced, so as we onboard new 9 members, it might be valuable to have them hear from NIFA early 10 on.

11 You can always come back. One thing that stood out 12 to me in public comments yesterday was equivalent seed varieties in organic, and that Europe is getting ahead on this, 13 and I wonder if research on equivalents of organic and non-14 organic seed varieties should be on the crops list, and this 15 16 might be another food tech assist job to start digging into the 17 details on Europe and give us more information to get into 18 that.

BOARD MEMBER NANDWANI: That's fine.

19

20 Carolyn has already mentioned, and I think Kyla also, 21 I see the value of updating these research priorities, really, 22 and it's a good idea to have Matt back or somebody from NIFA to 23 share them and see what other solutions they may have, but it's 24 a good idea to have Matt back to have a presentation in a 25 future meeting, so it's really valuable. Thank you.

BOARD MEMBER QUARCOO: Brian.

1

25

2 BOARD MEMBER CALDWELL: Yeah, thanks, Wood, for all 3 your great leadership on this. This is wonderful, and I 4 really, closing the loop, bringing the information back really 5 strikes a chord with me because I used to work for -- used to be a cooperative extension educator, and that was supposed to б 7 be part of our job. Now the extension system in our country 8 has really diminished over the last 20 years in terms of, I don't know, the overall kind of grasp that it has on things. 9 And in my experience, I also don't see eOrganic or even ATRA as 10 11 prominent as they used to be, and those were vehicles to get 12 the information back to the farm community. So I see this as a 13 really important part of the whole thing.

It's, okay, we got -- we asked for the research. 14 Some of the research has been going on for a while. 15 Some of 16 it's new. Some of it's happening. Let's collect that and get that back to the farm community and just the very broader 17 18 organic community in our case, and it's a tough job, and I really think that the work that Heather is -- we sort of had 19 done a little trial project, again, with the parasiticides on 20 21 this, and I'm really looking forward to getting that 22 information and then seeing if we can promulgate that 23 information to the extension, ATRA, eOrganic, to get that back around to all the farmers. 24

So anyways, just wanted to throw that in there, and I

1 think it's -- I think this is a powerful tool, so I appreciate
2 it.

BOARD MEMBER QUARCOO: Up next is Nate, but I'll quickly inject myself in there before that.

5 Yeah, and when that information gets to the farmer and they have good results, we want that feedback as well, 6 because sometimes research is done in a research environment 7 8 and when it goes into an actual farm environment, it's not as applicable, or it doesn't yield the results not in that kind of 9 environment, so when it goes into a natural farm and it works, 10 11 that feedback is also good, and it's still data being collected 12 on the outcome of that.

13

14

Nate Powell-Palm.

BOARD MEMBER POWELL-PALM: Thank you, Franklin.

Building on Brian, I think that the other casualty of a diminished extension system is there's not good information gathering as to what the problems are, and I think that's something we've struggled with on this Board as well. I think it extends everywhere.

I recently served as a grant reviewer, and in looking at what researchers were proposing to fix for farmers, my job was basically to say, is that a stupid idea? As a farmer, I'm just like, nope, we don't need that. Zero funding. We don't need that, we don't need that, and so how -- I would like to task the community with really trying to survey farmers' hearts

and saying, what are your problems? How can we solve your 1 2 problems? Not what are our perception of your problems, but 3 what are you actually -- what will make you thrive? And I think, you know, we're getting there, for sure. 4 5 I think that there's a lot more information to gather though. In Montana, if we just gave \$100 million to solving 6 7 Canadian Thistle, how do we get rid of it? We would be endless amounts more organic grain, and those sort of things that are 8 not sexy. They are boring, and they are needed, so just to 9 throw that in there. 10 11 BOARD MEMBER QUARCOO: Amy, thank you. 12 VICE CHAIR BRUCH: Yeah. Thank you, Wood, for shepherding this work over the years. This is really 13 important. I look at everything on this list, and I'd love to 14 15 have answers and information to be circulated in the community, 16 so just kind of always elevating this list is half the battle. 17 I think we're making progress. I love these ideas 18 that folks are coming up with to try to cross things off the list or at least circulate information. That's good. 19 One thing I wanted to highlight was a comment from 20 21 one of our webinar farmers that was very innovative. He's 22 actually in my area. He talked about some of the no-till type 23 farming that he's been doing with the roller crimper methods and intercropping, et cetera. And we asked him how he received 24 his information, and he said Google through YouTube. YouTube 25

is how he was learning some of these techniques, and I wanted 1 2 to just thank Erin Silva in that process because she -- Kyla 3 mentioned her before on the celery powder, but she's been really instrumental on communicating her research to farmers 4 5 via YouTube methods, and that is a popular way to exchange information. So when we're looking at making this information б that we find through research priorities digestible, we need to 7 8 also leverage these new ways to reach folks, and one of them is through YouTube and other methods, so that's been a pretty 9 powerful distribution of roller crimper information to farmers. 10

BOARD MEMBER TURNER: Franklin, I think you've missedCarolyn. Carolyn had a question.

BOARD MEMBER QUARCOO: Okay, all right. But Jerry -let's go to Jerry. I'll come up to --

BOARD MEMBER D'AMORE: Thank you.

15

What I have to say should have been said at the very outset. We've sort of blown by where I really had an aha moment, which was the idea of setting our priorities of our priorities. And I've been around long enough to know that we've been told by researchers that, hey, just tell me what you want, and your priorities will be my priorities. Don't bother to rank them.

I was there for that piece. So what I would like to say is, attaboy, congratulations. We cannot abdicate setting our priorities, one, two, three, four, setting and ranking

1 them. Thank you.

2 BOARD MEMBER QUARCOO: Carolyn. 3 BOARD MEMBER DIMITRI: Oh, great, thank you. So this is kind of just a thought that I had 4 5 yesterday, and it came up again today, and maybe it's to put a б possibility in Jenny's ear. 7 So when people were talking about seeds and 8 cataloging seeds, organic availability by crop, that's not 9 really something that any researcher would do, but I think there are nonprofit organizations that would do that really 10 11 well, especially if they had a cooperative agreement from the 12 Department of Agriculture to compile that information for them. So that's just a plug, an idea, throwing it out 13 there, see where it goes. 14 15 DR. TUCKER: Okay. Are you talking specifically 16 about seed or research priorities? 17 BOARD MEMBER DIMITRI: Okay, I'm talking about seeds. 18 So in this conversation, someone started-- brought up seeds 19 aqain. 20 DR. TUCKER: Right. Yes. Okay. We actually did Several years ago, we did fund -- we did a -- at the 21 that. 22 time, I didn't know how to do cooperative agreements, so we 23 actually did it as a contract. They're much easier to do as a cooperative agreement. We did fund OSA a small amount of money 24 to develop reports. We're not allowed to fund external 25

1 software development, but we can fund reports.

And from what I understood, that money actually was helpful in OSA. I don't think a lot of people remember that we even did that, but we did fund that. And our goal was to help spark the process with the hope that then the private sector would take it on.

So anytime we get a funding request, I think as has
been covered, our budget is now flat, right? And so that makes
trade-offs. We don't always talk about theory of constraints
here at Board meetings, but they are real.

11 And we have to have, think about trade-offs. And 12 when you choose to do this, you don't choose to do that, even if you don't say it, right? And so we would need to --13 cooperative agreements, if any, nonprofits have approached us 14 before with kind of proposals on what they would do, why they 15 16 would do it, what the deliverables would be. Anything a 17 cooperative agreement generates has to be for the public good 18 and in the public domain.

So certainly open to proposals on that, alsounderstanding the constraints of budgets.

BOARD MEMBER DIMITRI: Thank you. Excellent.
BOARD MEMBER QUARCOO: I want to make one last
comment and then we will have to move to the next. A number of
universities have a system where they have their faculty
members have research and extension appointments. And part of

that is to let them know, I mean, select relevant things for their research. And then when they find stuff, they send it back. So you are always in a situation where you appreciate what is of utmost importance, research-wise, because you work with the people who need it. So I think talking to a lot more of these people who also help us to bridge that gap.

7 I would like to thank Wood for all the work on 8 research projects and his leadership on that. He's another 9 person I call at all times when I don't know what I'm doing. 10 SECRETARY LEWIS: You can do it next year.

11BOARD MEMBER QUARCOO: Thank you. All right. We12will now move on to -- do we have to vote on? Okay.

We will now move on to inerts, and that will be led by Nate.

SECRETARY LEWIS: All right. Update for the Board and discussion on inert ingredients in organic pesticide products.

Just a quick retelling of the most recent history around this issue. Last spring, summer, the NOP directed the Board to take up inerts and provide comments or recommendations or opinions or some sort of recommendation by the end of 2024 in response to the comments the program had received in their advanced notice of proposed rulemaking and PR around inert ingredients.

25

We were able to include a few questions into the

docket for the fall meeting and receive responses. Those informed the development of the discussion document that we presented for this meeting we're in right now. And what we're going to talk about today is a brief summary of the comments received in the docket for today or for this meeting, some ideas around subcommittee work in the near future, and what to anticipate for the fall.

8 Before I jump into the specific comments, I do want to sort of elevate that I did hear frustration from some folks 9 in the community around the pace at which we are deliberating 10 11 on this topic, and that really raised some hairs for me. I'm 12 very protective of my fellow Board members. We all come from diverse backgrounds. Many people don't have exposure to 13 pesticides, let alone the inert ingredients. We don't know 14 15 which they are within those pesticides, let alone the arcane 16 and complicated regulatory system that goes into approving 17 those inert ingredients, let alone how we're going to proceed 18 on these various options. So I ask for patience.

We do have a deadline of this fall meeting, and I
want folks to respect the deliberative nature of the approach
we're taking to the work.

Okay. So we developed with the assistance of food technologists, Heather and Isu, over the winter a spreadsheet of inert ingredients. We referred to it as Appendix A, and we asked for feedback on it. Some general themes of those

82

comments were that it was difficult to utilize the information, 1 2 there was desire for additional analysis on non-synthetics and 3 functional groups, there was a preference for the Board to use commenters' own analyses, there was support for the approach to 4 5 have objective data for NOSB to analyze various options, and comments were split on one of these issues that I'm 6 7 particularly interested in is whether we should evaluate 8 options based on the entirety of List 4, or only those inerts reported to be currently in use by OMRI, WSDA, and PCO. 9

We asked about the guest speakers we are going to invite to our upcoming subcommittee meetings. There were some great suggestions around previous Board members who have worked with inerts, toxicological experts, inert and pesticide manufacturers and formulators, and representatives from EPA.

Questions around the accuracy of Appendix A, particularly as it relates to inerts currently in use, that's a difficult question to answer for even those folks who have that privileged information. So I think we just need to acknowledge that we are working with an opaque world of substances, and we are going to try to shine the light into that dark closet as much as we can.

Because of that, there's difficulty for stakeholders to analyze the accuracy of the information. And again, do we need to evaluate the entirety of List 4, or only those reported to be currently in use? And then we did receive some valuable,

helpful, and helpful technical corrections from OMRI on
 specific substances.

3 Board capacity and list management. Commenters that 4 were supportive of listing all inerts individually provided 5 ideas for increasing Board capacity or reducing Board demands through support from NOP, and through the careful and б 7 thoughtful grouping of substances. Supporters of the option to 8 rely on EPA inert approval with exceptions provided descriptions of EPA current review processes and potential 9 exceptions that could be added to a listing. 10

And commenters generally did not appear to support the endeavor to create another entity to hold and manage a list of approved inert ingredients, aside from the EPA and/or the national list.

And so before I jump into next steps, I wanted to make sure there weren't any other public comments from the Materials Subcommittee work group, which is myself, Brian, Logan, and Franklin.

So before we jump into next steps, I would, if you all have any additional specific comments you wanted to highlight, and make some room for that right now. No? Okay.

So next steps for the subcommittee. For subcommittee guests, this is on the very short term in the next few -- next month or two, we have decided that we're going to invite outside experts to provide information. So we are working to

identify and invite a toxicological expert, hopefully a 1 2 university researcher. We are in communication with EPA about 3 bringing an EPA staff member who's familiar with the current 4 way and policies and procedures that EPA uses to review and 5 approve inert ingredients in pesticide products. And we are going to invite an inert manufacturer and a pesticide б 7 formulator to answer questions. And we will be doing this in 8 the subcommittee setting. So all Board members are welcome to attend such a meeting, but it will be in a subcommittee 9 setting. 10

11 And what to anticipate for fall 2024. The working 12 group's going to develop proposals for both options that 13 stakeholders mostly support, which is either to list all inerts individually and the option to reference EPA lists with 14 Subcommittee will consider and debate those two 15 exceptions. 16 options as they're developed and refined. And we may bring 17 forward both options at the fall meeting in a proposal for a 18 full Board vote.

19 I think that concludes my slides. And I'd be happy 20 to have the work group provide any more context or information 21 or open it up for discussion.

BOARD MEMBER QUARCOO: Mindee.

22

BOARD MEMBER JEFFERY: Can you externalize that from a process perspective if we brought two forward? I haven't seen that yet as a Board member, so.

1 SECRETARY LEWIS: It would be a novel approach.
2 BOARD MEMBER JEFFERY: I like it. I think it's
3 interesting and diplomatic. I was just curious. Roads
4 unknown?

5 I think to some degree, yes. SECRETARY LEWIS: Ι 6 think it would be deliberately approached so that both options, 7 which the program has indicated are valid options, receive 8 airtime. And in sort of straw polling of the Board, it does not seem to be the case that we are arriving at a single 9 consensus position. And so to honor that, I think, giving both 10 11 options the fair shake is an appropriate way to proceed.

BOARD MEMBER JEFFERY: Is this where I get to wax philosophical about how much I love this group and how we go about doing this work?

BOARD MEMBER QUARCOO: I have a quick question. So just so I understand the process, if we go that, in two different directions, can the same Board member vote yes to both options?

19 CHAIR SMITH: We don't know the mechanics yet, okay? 20 So we're going to be in communication with the program to make 21 sure that whatever path we do is functional for them in 22 rulemaking. And so we haven't had those conversations yet.

This is sort of at the proof of concept stage. And so there will be more conversations. We don't want to, like, trip over ourselves, but yeah, we'll figure it out.

SECRETARY LEWIS: Yeah, and rather than getting 1 2 distracted by a procedure, I think the takeaway is that we all 3 are committed to supporting each other in development of the best possible proposal for each of those two valid options. 4 5 And how it is exactly we do the voting and the mechanics, I think we'll figure that out. б 7 BOARD MEMBER QUARCOO: Amy. 8 VICE CHAIR BRUCH: Okay. Yeah, oh, thanks, Franklin. 9 Oh, am I -- is it me? BOARD MEMBER QUARCOO: 10 Yes. 11 VICE CHAIR BRUCH: Something else, Nate. Okay. Sorry, I'm trying to read the room here. 12 Anyway, thank you so much for the overview on where 13 things are at with the inerts. I know our timeline's really 14 accelerated here. Is there an opportunity to leverage the open 15 16 docket and get feedback from the community in advance of the 17 proposal -- the two proposals? 18 If we could air the two proposals on the open docket first so we can see stakeholder feedback on that. 19 So I'm just 20 trying to think of ways to execute this since our time is 21 short. 22 SECRETARY LEWIS: Yeah, it's a really good question. 23 I think that's a logistics -- it is a logistics challenge, and I'll acknowledge it. I think I'm not particularly comfortable 24 25 with putting half-baked proposals on the open docket to be

1 sliced apart and put back together, and I'd rather develop full 2 ones that the subcommittee can consider and debate and vote on 3 within the subcommittee, which then would contribute to a 4 proposal for the fall.

5 But it's an interesting question around how to 6 leverage the open docket because of the accelerated timeline. 7 So let's do some good thinking on that.

8

BOARD MEMBER RUCH: Thanks.

DR. TUCKER: Okay, on the inerts topic, from a 9 program perspective, I want to actually repeat and reaffirm 10 11 what we said in the work agenda item on inerts. I know that 12 was a long time ago when we sent the work agenda item, but I think it's worth just remembering that we have asked for as 13 many viable options as possible to feed into rulemaking, right? 14 15 We don't want just one -- we don't want to put -- I don't think 16 we want all our eggs in one basket on this.

We've got a whole rulemaking process we have to go to after this, right? So we want as many options as the Board considers viable to feed forward into rulemaking. Because if we feed forward into rulemaking with lots of options, some of the public is to weigh in, we do cost benefit analyses, we have a lot of good trade-offs to deal with, right? Which is good, we want multiple trade-offs.

If we only have one option, we go into rulemaking, and for whatever reason, we can't get rulemaking through because it's too expensive, it's whatever, then we're right back where we started. And that's not where the community needs us to be. So that's the program's input at the moment.

BOARD MEMBER QUARCOO: This is beautiful. This isgood. Allison.

BOARD MEMBER JOHNSON: Thank you. Thanks for all the
work that the working group, what's the right name? Yeah.
Working group has put into this. This is a really complicated
and important issue.

One, just reaction, Dr. Tucker, to what you just 10 11 said, and then one suggestion. I wonder, then, if we should 12 think about working in the negative, and actually vote on what is not feasible. So then, we sort of take things off the table 13 and leave the rest on, could be another way to think about it. 14 And then, kind of along those lines, in the discussion 15 16 document, it says we could consider the individual ingredients 17 in groups, but ultimately, they would each need to be listed 18 individually.

We have a lot of groups of things that are already on the list. So I'm wondering if you could say more about why we're concluding that we need the individual listings, or whether there might be some batches of very similar inerts that could actually be listed as a category, without referencing EPA's list.

25

SECRETARY LEWIS: Good questions, and ones that we'll

1 consider in the work group and get back to you on.

2 CHAIR SMITH: I mean, there's so many different ways 3 that groups are currently listed. And so, you have, like, 4 electrolytes, right? Then you also, that are just a group, 5 that don't have the, you know, little eye, whatever. And then you have colors, which are grouped, and then individually б 7 So I think there's, like, all the ways. So we'll have listed. 8 to think about the best way.

9 SECRETARY LEWIS: Yeah, and, sorry, I wasn't quick 10 enough on the draw there. But the way I had imagined the 11 individual listing working is that everything's listed 12 individually, but they're reviewed in groups. So the burden on 13 the Board is diminished significantly in the review process, 14 because all of the common functional groups are evaluated 15 together.

BOARD MEMBER JOHNSON: Do you mean on an ongoing,
like -- I picture headings with individual listings under them,
or something like that?

SECRETARY LEWIS: Perhaps, or, but I'm more thinking about the sunset review process, that it wouldn't be, now let's go to alkyl blah, blah, blah, blah, blah, and then we'll go to, you know, so.

BOARD MEMBER QUARCOO: Wood?

23

24 BOARD MEMBER TURNER: I think we can leave it for 25 subcommittee work. I was just going to say, the grouping -- I

1 was persuaded by the group concept, too, or I was persuaded by 2 the group concept, but I also think one of the things we're 3 almost trying to remedy here is obsolete groupings of 4 materials.

5 So, anyway, it raises some questions, so I look 6 forward to the discussion as a committee.

BOARD MEMBER QUARCOO: Any other questions? No? Allright, thank you.

9 I'd like to thank the Materials Subcommittee for all 10 the work they've put into the various aspects of what you've 11 done, Nate, providing leadership on inerts, Wood, and Mindee, 12 and the entire group, and I'd like to thank you all. Thank 13 you.

14 CHAIR SMITH: Okay, before we move to the Policy 15 Development Subcommittee, in my humanness, in my first time 16 being the chair, I forgot to announce before we took the first 17 vote that the NOP did gather declarations from the Board, and 18 no Board members reported any conflicts of interest, so I just 19 wanted to state that for the record. Apologies for missing 20 that step.

And now I'm going to turn it over to Nate Lewis,
chair of the Policy Development Subcommittee.

23 Nate?

24SECRETARY LEWIS: All right. Thanks, Kyla. Let's25see.

This is the first subcommittee that I have chaired, and oftentimes the one with the driest material, so as an effort to engage the audience, I've brought along a prop, which is an organic cheese head labeled, I think, in compliance with the new SOE requirements for bulk handling.

6 UNIDENTIFIED SPEAKER: Nate, you've got to look this 7 way. There you go.

8 SECRETARY LEWIS: And with that, we'll kick it off. 9 So the topics on this update are upcoming semester work plan, 10 future subcommittee topics, and then we'll go into the details 11 of the policy and procedures manual, which is before the Board 12 as a proposal.

Current and future subcommittee work. The PDS is 13 working on developing processes for food technologists' work 14 15 planning. So we are blessed to have the support of food 16 technologists' staff roles from the program, and we are looking 17 for ways to ensure their work planning is efficient and 18 supportive. So we're soliciting specific needs for specific work agenda items from Board members. We're identifying 19 bottlenecks in areas where Board capacity can be supported, 20 21 like, for example, sunset reviews, identifying ongoing research 22 needs for the Board to fill in when specific requests are 23 minimal, and ensuring that work plans for food technologists are full but not overwhelming. 24

25

The PDS is also engaging with the Office of the

Secretary and the Equity Commission to better understand how the Equity Commission recommendations that were finalized a couple months ago will be implemented agency-wide, and to identify and embrace how the Board can lead, by example, for other Federal Advisory Committee Act boards at the agency.

6 We have some granular work as well around refreshing, 7 doing a refresh on the member guide. This is an internal 8 facing document that helps Board members onboard and understand 9 processes so that they can succeed during their service. And 10 we're going to engage with the program on the sharing of 11 responsibilities for onboarding new members.

Just as a reminder, we are anticipating five new Board members in 2025, and five more Board members in 2026. So we will have 10 new Board members in the span of two years, and some real effort and focus on the onboarding process is something we're taking very seriously.

Now I'm going to turn it over to Amy to tee up the
updates to the Policy and Procedures Manual as her role as vice
chair.

VICE CHAIR BRUCH: Okay, Nate, thank you.

20

The Policy and Procedures Manual, the PPM, provides procedures for the functioning of the NOSB and is designed to assist the NOSB in its responsibilities. One of the accountabilities, as Nate mentioned, the vice chair is to help maintain the PPM and ensure its accuracy, and we tackled this

this past semester within the PDS subcommittee. The last
 update to the PPM was conducted on April of 2022.

3 So moving on to the next slide, just to kind of 4 quantify the work that was done, most of the updates were non-5 substantive in nature. Essentially, we worked on updating some 6 clerical avenues and technical edits for clarity. Also, 7 updates were made to better describe current policy and 8 procedures, and also more clarification on the roles and 9 responsibilities of individuals.

And with that, I'm going to pass it over to Nate now. He's going to dive into a few more of the substantive comments for more thorough Board review, and then touch on public comments. This definitely was a collaborative effort amongst the subcommittee, and I'm happy to make the updates here. So go ahead, Nate.

16 SECRETARY LEWIS: So I'll just be highlighting a few 17 of the more substantive change. I'm not going to go through 18 every changed comma and addition of an S or deletion of a sub 19 or something like that. So I'll be focusing mostly on the 20 substantive changes.

This first one is about clarifying the roles of the administrative team, and it sort of codifies the role that the admin team has on working with the program to onboard new members and provide outgoing Board members with the opportunity to share experiences and feedback. So we certainly want to

1 make sure new Board members are given the tools they need to 2 succeed, and that outgoing Board members have an opportunity 3 for feedback. This just codifies the role the admin team has 4 in facilitating those two important responsibilities.

5 This update is reflective of the agency's 6 interpretation of the Federal Advisory Committee Act, and that 7 the resource conservation role, in which I sit, I'm one of 8 three, are special government employees. So this is some 9 language that acknowledges that we are SGEs, but that we are 10 all peers. And so this is a little bit more clarification 11 under that.

In the vein of clarifying duties and roles, we added a responsibility to subcommittee chairs' duties to ensure minority opinions are given opportunity to be represented in meetings and in discussion documents and proposals. Conducting business, we updated the sort of reasons for not attending a meeting in person. There was actually a lot of discussion about how to ensure full participation of the Board.

We are operating with a member absent, and that is challenging. We are fairly limited in our ability to force someone to participate. And we also all live through a Zoom reality through pandemic and have become more comfortable with virtual appearances and want to support that.

24 So rather than it only being a medical situation that 25 might allow a virtual presence, we wanted it to be more inclusive around understanding that there are many extenuating circumstances which can prevent travel. And while that's preferred to be here in person, we want full participation in the Board.

And then as a grammar nut myself, I love these types of changes. We changed the word impugn to malign to more accurately reflect the meanings of these words. And I will, when I go into the specific, I think this next slide will sort of dive into that grammar lesson for the day.

In public comments, we didn't receive too much feedback. Not surprising as these are not earth shattering or a huge course correction, but rather more smaller updates. There was general support for the changes, and there was some continued interest in requiring minority positions to be presented.

16 In terms of malign and impugn, I think Beyond 17 Pesticides put it the best, which was that impugn means to 18 assail by words or arguments, oppose or attack as false or lacking integrity. Malign means to utter injuriously 19 misleading or false reports about. So we want folks to be hard 20 21 on the issue, not on the person. And we use this word malign 22 to better describe what it is we're trying to avoid in public 23 comments.

And I think with that, we'll go to questions and discussion. I'm chair, so I will also run the queue.

1 Nate? 2 BOARD MEMBER POWELL-PALM: Thank you, Chair. Could 3 we jump back to that last slide? In thinking about how to 4 facilitate the most collaborative space in public comments, do 5 we feel like there's a better word than individuals to б represent private entities as well? Or organizations, 7 nonprofits? 8 SECRETARY LEWIS: I certainly am not going to speak 9 for the collective we, but I think that's a good thing to note. Allison. 10 11 BOARD MEMBER JOHNSON: Thanks. I just wanted to 12 speak to the SGE change specifically. We chose the wording 13 there carefully to indicate that USDA changed their longstanding interpretation of the Board members classification 14 15 as representatives. So it's a recognition of the reality that 16 we're operating under, but not necessarily an endorsement of 17 that change in interpretation. But it does reflect the status 18 that is now present. SECRETARY LEWIS: Any other comments? Amy, go ahead. 19 20 VICE CHAIR BRUCH: I was just going to make one comment about some of the public comments we received. And one 21 22 of the groups mentioned, hey, the next time the PPM's updated, 23 let's consider these additional things. And that was kind of the methodology that PDS used. 24

25

We had a running punch list over the last few years

1 as a starting spot to make these changes. And that's what I 2 recommend. The next time this is officially evaluated, we just 3 leverage that punch list from information from the community 4 that we collect and ourselves to then implement for the next 5 time this is reviewed.

6 But this is constantly reviewed, but not necessarily 7 officially updated as frequently. As we noted, the last time 8 it was updated was a couple years ago. So public comments that 9 were mentioned to us, we will evaluate those for kind of the 10 next round of official updates. So thank you.

SECRETARY LEWIS: Appreciate that addition and commitment to keeping the PPM up-to-date and incorporating continual feedback.

14BOARD MEMBER JEFFERY:Thank you, Michelle.She15often keeps those suggestions in a list for us.Thank you.

VICE CHAIR BRUCH: Yeah, thanks, Mindee. Appreciate that and thank you, Michelle.

SECRETARY LEWIS: We were going to vote on this. So I'm not sure if we still -- maybe we'll go all the way back to the beginning to get to our motion slide.

21 BOARD MEMBER HUSEMAN: I have a question.
22 SECRETARY LEWIS: Go ahead, Kim.
23 BOARD MEMBER HUSEMAN: Is the suggestion on
24 individual and adding the word company substantive enough that
25 it would -- can we amend that part before we vote?

2 back up in other business on Wednesday for -- let's defer the 3 vote to Wednesday so we can discuss that and make -- I'd rather not make it on the fly if we can. 4 5 Mindee, do you have a follow-up on that -- does that work for folks? Okay. I think that's a valuable comment and 6 7 let's just make use of that time that we have set aside. 8 Okay, I guess with that, I will turn it back over to 9 Kyla. CHAIR SMITH: Great, that means we're early for 10 11 lunch, y'all. So good job. And I didn't say it but I do love 12 the prop. It certainly made this presentation more enjoyable 13 for me anyway. Okay, so we are coming back at 1:30. When we come 14 15 back, we are going to hear from the compost panel and then we 16 will have a break and then we will go into the work of the 17 crops subcommittee agenda. And so have a great lunch and we'll 18 see you back here at 1:30. 19 (Recessed at 11:52 a.m.; to reconvene at 1:30 p.m.) 20 CHAIR SMITH: Okay, everybody, we are going to get started. And welcome back from lunch. It's beautiful out 21 22 there today, huh? Hopefully you guys got some sunshine, 23 outdoor access.

SECRETARY LEWIS: Let's discuss that and bring it

1

I don't think I need, yeah. Okay, so we are going to start our afternoon hearing from an expert panel on the topic of compost. I'm going to hand it over to Nate Lewis and Mindee
 Jeffery, both on the crops subcommittee to introduce the
 panelists and facilitate the discussion.

4 SECRETARY LEWIS: All right, thanks, folks. I will 5 introduce each panelist in due time. I wanted to sort of tee 6 up the panel with a short conversation about why now?

7 Why are we talking about compost now? First and 8 foremost, it's always a good time to talk about compost. 9 There's a saying that compost by itself won't save the world 10 but you can't save the world without compost. And it's a 11 foundational material in organic production and something that 12 we always want to stay on the cutting edge of. We also have a 13 unique Board composition right now.

So Mindee and I are both certified compost facility operators. I received my certification in 2004 and have been composting on-farm animal processing waste, manure and bedding and crop waste for close to 20 years. Mindee also is a certified compost facility operator and manages a compost facility in Northern California.

20 Climate change and waste reduction goals are top of 21 mind for everyone. Compost plays a critical role in those 22 conversations. It's important we do a timely revisiting of 23 standards to ensure they are current and relevant. Our 24 standards are based off of the EPA's 503 rule which was 25 developed in the '80s, I believe, for management of biosolids,

101

1 '70s.

2 So in some ways it provided a good path for some 3 reliable metrics but it is time for a relook at that and a 4 refresh.

5 We also have a new law in California linking 6 compostable packaging requirements with the federal organic 7 regulations. And so that sort of is a catalyst for asking 8 these questions.

9 And we have an ongoing obligation to ensure that 10 organic farmers have access to compost that meets their quality 11 goals. So we want to be thinking about new and novel ways to 12 prevent and mitigate the presence of compost contaminants.

So I'm going to pivot back a little bit and follow in the footsteps of one of my mentors, Miles McEvoy, who always talks about birds in all of his presentations. And if I can get this to work. We'll, no -- sorry, we're having a little, there we go.

18 So I want to talk a little bit, very briefly, about 19 the Australian brush turkey, Alectura lathami. This is a 20 wonderful creature, partly because of its beauty and stature 21 but also because the males of this species actually create 22 aerobic and active compost piles to incubate the eggs of the 23 females in the flock. And these piles can get really, really 24 big.

25

And a suitable male is, or a male that's successful

1 in his breeding endeavors is one who can manage his compost 2 pile at the proper temperatures to keep those incubating eggs 3 on the right track.

4 So it's really an interesting and relevant 5 discussion. And I also want to point out that even they 6 struggle with plastic in their compost piles.

So, just wanted to sort of add some levity to the conversation and introduce everyone to the Australian brush turkey before we dive in.

10 So today we have, for our -- I thought these -- I 11 added some affiliations here and I apologize for the version 12 challenges we're seeing.

But we have our compost panelists, Doug Currier, Dr.Pat Millner, Matt Cotton, and Tim Dewey-Mattia.

Doug is with OMRI and I'll read his introduction. Doug joined OMRI in 2011 and spent the first seven years working to support brand name product review.

Since 2018, Doug has led policy and standards development activities for OMRI, educational outreach and certifier support. He also oversees other projects, including the creation of technical reports for the National Organic Program.

Next we have Dr. Pat Millner. Dr. Pat Millner is a
researcher at USDA ARS Beltsville. She is a research
microbiologist in an environmental and food safety laboratory

and does work in sustainable agricultural systems laboratory.
She has her Ph.D. in marine estuarine and environmental
sciences and microbiology from the University of Maryland and
has served as an expert consultant for a whole host of
government entities, including the U.S. Congress.

Matt Cotton has over 30 years in the organics б 7 recycling industry. He works with public and private composers on a daily basis to meet the challenges of large scale 8 composting. He's worked on statewide policy legislation and 9 regulation related to composting in California. 10 Lead 11 instructor for U.S. Composting Council's Compost Operator 12 Training Program. Co-authored chapters in the composting 13 handbook. Among other things, has almost two decades on the 14 Board of Directors of the U.S. Composting Council, including 15 three terms as president.

And then last, and certainly not least, we have Tim 16 17 Dewey-Mattia, who is the recycling and public education manager 18 for Napa Recycling and Waste Services. Napa Recycling is the local franchise hauler in Napa, California as well as the 19 operator of Napa's Recycling and Composting Facility and the 20 21 Northern Recycling Compost Facility in Yolo County, California. 22 Tim got his start in zero waste over 25 years ago first with 23 the Middlebury College Recycling Program and then for several non-profit recycling organizations in San Francisco. 24 He's been at Napa Recycling for 18 years and works on all aspects of 25

program development, implementation, compliance, and outreach. So with that, I think we'll -- oh yeah, I was going to just give folks the agenda for today is you are in the introduction now, then we'll have panelist presentations, 10 to 15 minutes a piece, and then we'll have a Board conversation, Q&A and discussion with the Board members concluding at 3:30. So with that, I will turn it over to Doug and give

8 you the thing.

25

9 MR. CURRIER: All right, hi everyone. I am Doug 10 Currier from OMRI and want to say thank you to Nate and Mindee 11 for the invitation, to Michelle for all the support, getting 12 this set up. I'm having a ton of fun getting to be up here on 13 this panel. We're going to break it down and talk compost.

Let's go see if this works. Yeah, so OMRI's mission 14 is to support the growth and trust of the global organic 15 16 community through expert, independent, and transparent 17 verification of input materials and through education and 18 technical assistance. So what I'm going to try to do here is sort of set the stage for compost review and how we do it now, 19 and then kind of set the stage for the rest of the panel to 20 21 talk more about the ins and outs of compost.

22 So farmers, producers, we have a variety of different 23 stakeholders, and I just added a few here just to sort of 24 orient everybody.

So to me, 205, 203 is really the heart and soul of

Burke Court Reporting & Transcription (973) 692-0660

104

1 compost standards because it has many different practices that 2 are required in organic production. I've added those here, and 3 it ranges from the addition of animal and plant materials, crop 4 rotation, good tillage, cover crops, all that good stuff.

5 There's also this contamination element, which we'll definitely talk about more, and the management practice 6 7 standards have to prevent contamination of crops, soil, and 8 water. And so we cite this part of the standard quite a bit whenever we're looking at inputs, and that includes compost. 9 There's also this must not use any fertilizer or composted 10 11 plant material that contains a synthetic substance not included 12 on the national list.

And so I just wanted to add this here as we start talking about compost, because to me, this is a really fundamental part of the organic standard. Oh, hang on, who's that? Oliver? So I was told that Oliver might show up as we start talking about compost and manure, and so sure enough, there Oliver is.

19 Thank you, Bill Wolfe, for the permission to include20 Oliver here.

So 205.203(c) is all about manure and compost. So we have the raw manure standard here, and there's that days to harvest or pre-harvest interval, whenever we're talking about manure. And of course, composting manure is a way to mitigate the risks involved with raw manure application, but raw manure

application is part of the standard, and there's that pre-1 2 harvest interval.

3 203(c)(2), talking about compost, there are different 4 And that is in NOP guidance at 5021. So yes, there are rules. compost standards at 203(c)(2). The NOP guidance goes further 5 and talks about other methods that are not included in the б standard, but are based in the standard. 7

8 So these are just a few examples of methods that we 9 see regularly whenever we're reviewing compost. So we have in-We've got static aerated piles. There's windrow 10 vessel. 11 methods. You'll see a theme here of time and temperature as an 12 important part of the methods that are used to make compost, 13 and we are, through our reviews, getting turning logs, temperature logs, things like that that are demonstrating that 14 15 compost is being made and meeting a standard. Then we have 16 203(c)(3), which is uncomposted plants.

17 So I wanted to -- terminology is really important. 18 So I want to make sure we're all thinking about terminology in the same way. So feedstocks is a term that you will need to 19 get familiar with. So that's the incoming materials that are 20 21 then composted. So these can range in their makeup, manure, 22 leaves, food waste. These are just a few examples of incoming 23 feedstocks that are then put through the composting methods that we were just talking about. 24 25

This is all leading up to the actual method of

So once these feedstocks are received, they're 1 composting. 2 going through that compost method. We'll hear more from actual 3 composters here later. But the finished compost is also 4 scrutinized. And it's scrutinized by looking at heavy metal, 5 arsenic, cadmium, lead here under the USDA standard. I can talk about the Canada standard later if we want to go there. б Pathogens, fecal coliforms, and salmonella. And looking at 7 8 presence of contamination too.

9 We very much have a reactive system, I think, where 10 we're sort of responding to contamination. But there are ways 11 that we work with composters to ensure that they have a 12 contamination prevention plan so that we don't have to react to 13 contaminated compost through a complaint.

14 So, yeah, I added this slide in just to show how many 15 compost and compost-related product manufacturers that we work 16 with. It makes up a good part of our brand names product list. 17 And, you know, compost has been there from the beginning. And, 18 but we -- the compost, other than those sorts of -- the content there after the number, that's our generic materials list 19 category. So, you know, you can see 183 of these products are 20 21 in our compost other category.

We also have this compost windrow category, which is there to, you know, show that compost is meeting exactly what's in the federal standard. Compost other is very much what's in the guidance. So that 5021 guidance. Compost tea, compost inoculants, you know, other, you know, compost-related -- we've got a variety of different products that are on our list and categorized.

Okay, so contamination. We have visible contaminants
and then invisible contaminants. So the visible contaminants
include plastic trash, glass, you know, things that, you know,
you don't want to see in a compost.

8 Invisible contaminants, so there's that fecal 9 coliform bacterium there. And that -- and then also there's 10 that chemical compound, which is paraquat.

So there are a number of known persistent herbicides that, you know, you are not going to be able to see unless it's actually showing up in plant growth. Damage, I guess, you know, through starts -- vegetable starts are the big ones that I've seen, or we've seen over the years. So just making a sort of a distinction between visible and invisible.

I would -- you know, we can talk more about, but I put contamination in quotes because that's a term that is subject to interpretation to some degree, I would say. But, you know, these are, you know, examples of what I think we would all consider contamination.

So sorry if this is hard to see, but I wanted to just note that we have a complaint process. And this is getting back to that sort of reactive system that we kind of have right now. But this is a fake letter. So don't worry, I'm not, you 1 know, outing anyone here.

2 But that is not a fake photograph. So that's taken from a complaint that we've received over the years. 3 4 So I just want to note that there's requirements 5 that, you know, we have to have for what we consider a formal complaint. And so just noting kind of what those are, and this б 7 is all in our policy manual. So I guess I'm putting that in 8 here just to acknowledge that we take this seriously and we have a way to respond to complaints whenever they come in. 9 I'm going to wrap up here and hopefully I 10 11 accomplished sort of setting the stage for this. 12 But I wanted to end by noting we've got a pretty 13 robust web search now on our website and we have a lot about compost. And so just an example of going to our website, you 14 15 can filter and look for content related to compost. 16 Okay. That's my contact details. And with that, 17 I'll pass it to Dr. Millner. 18 DR. MILLNER: Good afternoon, and thank you to the committee for inviting me to share with you the information 19 about composting. I'm going to focus on compost process, some 20 21 differences in maybe definitions and terminologies that have been used over the years, and then move directly into the 22 23 microbiology and those kinds of standards that motivated the development of a number of different process standard and 24 25 testing requirements for compost.

Okay, so this is a very basic sort of diagram of the 1 2 composting process, what it involves, how it's happening. 3 You're putting in materials, as were described, compiling them, 4 different configurations for different types, as we heard, and 5 materials coming out, so the finished product. And what do we We want compost that is beneficially useful in б want? agricultural endeavors, and there are a lot of different types 7 8 of agricultural endeavors.

9 So, what's common about this? We call it a thermophilic composting process. Why? Because there's 10 11 biological activity that's decomposing and stabilizing if the 12 process is being used correctly, organic matter that is exposed 13 to thermophilic temperatures, and that means at least 55 degree 14 centigrade conditions, that are a product of biologically 15 generated heat. Microbes decomposing the organic matter that 16 is heaped up in various configurations, depending on the 17 system, yielding a stabilized product that can meet pathogen 18 content, plant growth standards for beneficial uses.

19 So the compost product that's generated, it should be 20 an organic soil conditioner, as we all want. It should be 21 stabilized to a humus-like process, so, and processed so that 22 it can inactivate zoonotic, and what I mean by zoonotic 23 pathogens are those which can attack people and animals, as 24 well as plant pathogens, and also any errant weed seeds that 25 might have gotten into that product as a part of the input. 1 It should avoid attraction of insects and vectors at 2 the end of the process. So that goes to odors and volatiles. 3 It should enhance and maintain soil health and support crop 4 growth.

5 So if we want all those things to come out, we have to have some measures, and a variety of different measurements 6 7 along the way through the process, and at the final product, 8 have been developed. These process and product quality standards have been developed over a period of time with the 9 help of EPA activity-supported research, which has led to two 10 11 different ratings, one is a process to produce compost, and the 12 other -- to basic compost requirements, and one to accomplish a 13 further composting process.

Now, the Leafy Green Marketing Agreement in
California, and the U.S. Composting Council, through its STAY
program, as well as OMRI, have developed a variety of different
methods to evaluate the quality of the final products. So
these are just kind of breaking it down as to what happens in
these stages of composting.

20 One of the questions that came up when I was 21 introduced to talk to you all about this process, was that, are 22 there some standards for home composting? I am not aware of 23 any standards in the United States for home composting, as in 24 your backyard. That's a local issue. If somebody knows of 25 some that have been promulgated, I'd be interested in knowing

1 what those are about.

But for the larger industrial type of composting,
these are the steps that are easily discernible as individual
steps in the process.

5 So the material comes in, it goes through a 6 thermophilic process, goes through a curing stage where it's 7 matured and stabilized, then it may be dried or otherwise 8 screened to improve the physical quality of it, and then, 9 however it's going to be marketed and distributed.

Go back. So there are different standards, whether 10 11 it's the leafy green marketing agreement, which is specifically 12 for California and other leafy green growers, like lettuce and herbs and that sort of thing. Some of these standards that 13 they have developed also apply to commodity, more attention is 14 being paid to commodities which have since received attention 15 16 because of foodborne illness outbreaks, such as cantaloupes, a 17 difficult product because of its netted surface.

18 There are other standards which are, like the FDA has the FSMA standards now for food safety, specifically. So each 19 one of these areas, including the tomato gaps, all of these 20 21 have their own individual requirements that have to be met. 22 Some of them overlap, but you need to pay attention to those 23 depending on what jurisdiction you're operating in and what kind of material you're handling, what crop you're growing. 24 25 I'm just putting all these things out here for your

reference and to kind of bring all of this together because
 there are so many different types of rules and quality features
 that have been developed by these different agencies.

So how did we get to the particular time and temperatures requirements that we have? This was based on a variety of research and some of which continues to go on as we find that there are newer strains of organisms or microorganisms that people are paying more and more attention to in different kinds of production systems.

10 So back in the '80s, we had a lot of support from the 11 Environmental Protection Agency with regard to the development 12 of their rules about composting of sewage sludge. And those 13 have continued to be examined and reexamined over the years. 14 Just presenting here for your -- not that you're going to 15 remember all these little details here, but just so you'll have 16 this information to take under consideration.

There are a variety of different methods that people used to determine when and how much temperature and how long those compost piles need to be able to reach a certain temperature in order to ensure that the pathogens of concern are destroyed. So there are a number of different methods. I just put this out here so that you can see and you can refer to those different methods.

24 Well, how do we go about doing this? I mean, you've 25 got tons of material in some industrial-size operation piles.

We've also used these, other than thermocouples being placed 1 2 into the piles at various places or other types of temperature-3 measuring devices, we've also used this kind of infrared 4 technology, where you point and shoot and determine. So as the 5 piles are opened up or cross-sections are made, you can get kind of a profile of what the different temperatures are and б 7 the effects of certain environmental conditions, whether it's 8 been rainy, whether it's been dry, what side of the pile has received a lot of illumination from the sunlight and how that 9 helps to warm things up. 10

11 So with all of that background, I'm going to switch 12 now into an area that I was asked to talk about, which is 13 things that haven't been so compostable and are now under 14 review, which are the sticky labels that you see on the fruits 15 that you buy, the handheld sort of avocados and oranges and so 16 on. They have a little label on it and that label has a lot of 17 meaning. There's a background on all of that.

We now have a consideration of how to make those labels compostable. So the big picture of this is that agricultural exports go all over the world. There's a lot of money spent on moving products around. There have been -- the European Union has recently looked into how to improve the compostability of these kinds of labels.

24 So they are using these labels for a very useful 25 purpose. The EU had considered whether they could be made into something that would be home compostable. And this is why I
 mentioned earlier that we don't have a standard for home
 compostable in the terms that we have for the industrial type.

So I'm not sure that that's really going to be something that we'll see in the near future approached here in the United States, but it is something in the larger context to consider.

8 There's a need for compostable labels for these 9 products because when they do go, lots of fruit and vegetable 10 material gets into a commercial composter, there are going to 11 be a number of these labels, and we'd like to see that they get 12 composted.

13 The issue is about the construction of the materials that are going into these labels. So why are we using these 14 15 This gives you some kind of background on why do we labels? 16 use them. It helps to identify a whole lot of features about 17 where these products are going to, whether they're organic, 18 which is a really important feature of the label, and whether they are certified in a number of different ways. 19 So it can also help with tracing if there's a need for a trace back for a 20 21 foodborne illness outbreak. So they're very useful sort of 22 tracking devices in a way.

23 So, in general, we're looking at where in the 24 composition of these labels can we actually make some 25 modifications to help move them more toward a compostable end.

And there are some problem issues with the adhesives in
 particular, but also with some of the actual components in the
 label.

So a unit out in our USDA Agricultural Research Facility in California, it's a bioproducts research unit. Dr. McManus has provided us with these slides on a research that he's been doing over the past few years, looking at how to overcome some of the challenges of developing a water-based material coating system.

And there's some particular challenges with this. One is the coating. One is the de-wetting of that, when you're actually putting on the adhesive material. And the other was a couple of other additional stages and the actual laminating of the sticker so that it will stick to the fruit for the useful life of that product.

So, the product -- the progress to date has involved testing over 300 different formulations and processing combinations to select which ones of the adhesives will actually do the job that they're aiming to do, to make sure that they'll stick for as long as their useful life is needed. And some of the critical application problems are

with some novel kind of components that have had to be developed. And those have been tested in a sort of pseudoindustrial process. They do look like they can degrade, but there's further work that needs to be done on that. So, that's

1 a work in progress, basically.

This is a pilot scale, just an assembly to show you what it somewhat looks like in this process. If you have any questions about that, I encourage you to contact Dr. McManus. This is his contact information. And now I'm going to transition into the next thing, which is, what are the perspectives from the International Fresh Produce Association? Dr. Max Teplitski has provided this.

In the Washington state, they had a number of 9 different industry groups communicating that, to the lawmakers, 10 11 that there were no viable alternatives to these stickers. But 12 Canada is also very interested in this, PLU stickers. And what Dr. Teplitski has communicated, has said that there's a real 13 strong interest and a need for these compostable stickers. 14 And 15 the stickers are an alternative to packaging for other 16 commodities that can be sold in an unpackaged way.

17 So the PLU stickers will allow the organic community, 18 in general, to reinvest into organic production and development 19 for new types of varieties of products. So the next generation 20 of these stickers is envisioned to carry a typical kind of QR 21 code, not just those barcodes that we're used to, to allow 22 packing for more information.

23 So, these PLUS versions are designed to ultimately 24 allow for traceability, trace back of where they were produced, 25 what do we know about the carbon footprint about those. And another aspect will be, Dr. Teplitski told me that he had a lot of information that he posted about these PLU stickers on his LinkedIn website. So -- and he has some extensive information that could be useful to people who are particularly interested in this topic.

This topic came up for a vote last week. And the б 7 final version was accepted by the EU Parliament. They did have 8 a provision in there for home compostability, which is why I mentioned that in the beginning. We're not sure how that's 9 going to fare out. May ultimately have to be modified. 10 It's 11 going to be up to some individual countries in the EU to 12 determine where they want to land on things about the standards 13 for these PLU stickers.

So this is a work in progress, and it's something that is -- it will be occurring. It's just a matter of time until the physicality of the production of these compostable stickers occurs, and the research developments are progressive enough to meet that demand.

The legislation to go with it will depend on a number of things within the EU countries, and how that impacts the rest of the world in terms of competition, possibly, for importation and movement of commodities across borders.

So I think that pretty much concludes what I have.Okay. This is not mine, actually.

Thank you very much.

25

If you have any questions, I will be around for most of the day tomorrow, and I'd be glad to talk with anybody about any aspects that are of interest about composting.

4 MR. COTTON: I'll say thanks, Pat, if Nate's not
5 going to. I'm happy to. Awesome, as always.

Always a thrill to be on the dais with Pat Millner.
She might just be a super talented microbiologist to you, but
for us, she is the go-to person on pathogens, so always a
pleasure. And can't thank you enough for having me here.

Not my first time testifying in front of the NOSB.
It's been a while, but always impressed. I got to listen to
most of Tuesday's comments, and just reinforced my respect for
you guys and the work that you guys do.

This is really hard, mind-boggling, granular work, and you guys face it with aplomb and talent and research and just a positive attitude, and it's inspiring, and I'm really happy to be able to be a small part of that today, and I appreciate the invite.

I'm going to switch gears really fast, and that's not going to work. This will probably help. I could just do this to myself, but am I doing it this way, or am I doing it? Now it doesn't want to work.

Cool. We'll get this done eventually. So these are just really quickly, this is my version of some comments that have already been given by the U.S. Composting Council, the 1 CRAF, Ron Alexander, I generally agree with those.

We could harmonize the compost definition with AAPFCO. Starting C:N ratio, yes, it's an important BMP, but it's very rarely measured, and really not -- it's important to composting, rarely measured, it's probably a lot to do with old soil conservation data, trying to minimize volatilization of nitrogen from composting. It's a thing, but having a number there isn't terribly helpful.

9 PFRP, as Pat mentioned, pathogen reduction, 10 incredibly important criteria. I think it's working fine. I 11 don't think we need to go beyond that. The market can always 12 go beyond it.

It would be great to explicitly allow the commonly 13 used Kraft leaf collection bags, which are, do have writing on 14 them, so technically you could call them synthetic, but they're 15 16 incredibly common, especially here in the Midwest, way you 17 collect bags. And so we went to -- I went to my very first --I used to hand stencil those back in 1986, my very first 18 composting operation, because we did not want to collect leaves 19 in plastic bags, so that's an improvement. 20

Don't think we need to look at additional contaminants at this time without doing a lot more science and research, but again, those comments have been discussed by others.

25

Wanted to bring this up, this is pretty old data,

this is from 2016, back when NOP 5016 was being looked at, and 1 2 I was on the U.S. Composting Council Board, and I'm not now, 3 and just to be clear, these comments are mine, don't represent anybody else, but at the time we surveyed composters, and I 4 5 guess I'd bring this up because the ability to sell compost into organic is very important to composters. It's a very б 7 important market, particularly in California, but across the 8 country.

Back in 2016, we surveyed a lot of large composters, 9 about 70 percent said they sold compost approved for use in 10 11 organic. It doesn't mean they sold to organic, but they sold 12 compost that was approved for use in organic. More than a 13 million tons at that time, it's probably more now, and you know, only less than half of that went to certified organic 14 15 Again, this is probably different, we haven't really farms. 16 done a study, but it is being approved for organic, be 17 allowable in organic, is an important and premature quality assurance step that many people really like and value. 18 So that's why we think this is important. 19

20

Nope. Anybody? Anybody?

We got two for one. So Nate wanted me to talk about composting. Oh this will be fun. A lot of yard trimmings, a lot of food scraps, a lot of manure composted, we have probably 5,000 permitted composting sites in the U.S. There may be an additional 5,000, we don't tend to count ag composting site.

Maybe 200 accept food, which is a weak surrogate for
 compostable acceptance. Excellent timing.

Oh, okay, what do you think? Look at that. So I just said there's about 5,000-ish composting sites, the best number we have, but there's less than 200 that take food and less than that take compostable plastics, the real reason we're here.

Bust for reference, there's about 15,000 Starbucks. 9 Okay. You want to see that again? That was a good map. You 10 can look by state. Yeah, well there's -- this is the number of 11 composters that take food. And so by extension, potentially 12 compostable plastics. It's not one-to-one, it's a bad 13 surrogate, but not very many is my point. 15,000 Starbucks.

Turns out Starbucks isn't the only one who wants to take the compostable plastics to compost. Just one generator. There's 4,000 Walmarts. Walmart started selling compostable plastics. There's, I don't know, 400,000 grocery stores. There's a lot of generators, not so many composting facilities is my point.

20 Where am I? Really? Why does this hate me? All 21 right.

So I'm going to switch to California. That's where I do most of my work. We, and again, this is incredibly important to our composters. We still landfill about 40 million tons. About 23 million tons of that is organic, not

all of its food. But all of that is dwarfed by manure, even just from dairy, and we grow about 50 percent of all the U.S. fruit and veg. And we do -- work I did in 2019, we do about five or six million tons, again, of the permitted facilities, not all the facilities, because we don't tend to count on farm. We don't tend to count large ag folks if you're doing dairy. Composters are different animals.

8 In California, about 65 percent goes to agriculture. That is not like other states, but the vast majority of our 9 compost, this is from 2019, pre-pandemic, I would guess this 10 11 number's actually greater now than it was. I don't know how 12 many tons exactly goes to organic, but it's a significant 13 portion. And again, more goes through the process to become allowable for organic, one, because in California we have CDFA 14 and we have Dr. Lee with us somewhere here from CDFA. 15 You have 16 to be -- if you're going to make a claim that something is 17 suitable for certified organic, you have to register, get a CDFA license, and register a product for CDFA. 18 So it's not an option in California. If you're going to sell organic, you 19 have to go through CDFA. And you're probably also going to do 20 21 OMRI.

22 So this is just a cool graphic I stole from a 23 magazine in LA. City of LA and there are 400,000 residents now 24 have access to green waste and food waste collection. I kind 25 of like what this graphic was saying, but that is the largest

123

curbside collection program of organics in the country. And at
 the moment, they don't take bags. They don't take compostable
 bags. They all get pulled out and landfilled.

So it's early days for Southern California. We've been doing it in Northern California for quite a while, but here's the hard part. And let me apologize in advance. I speak really quickly. I will try to speak slowly. I will try to describe three very robust and granular bills in a relatively short amount of time.

But we've got three giant bills, very ambitious, aspirational bills in California. 1383 was actually written in 2016 under Jerry Brown, but it's essentially food scraps collection for everyone, everywhere, all the time. So we're seeking a 75 percent organic waste recovery rate by 2025. So super ambitious. We already probably collect more food waste than any other state.

On top of that, we lay our SB 1201. And I get this is an alphabet and numeric soup, and I don't expect -- there won't be a test afterwards, but trying to explain how these interact. 1201, among other things, defines compostability specifically for compostable packaging by building on existing standards, including allowance by NOP.

And then 54 is really trying to get at single-use packaging and reducing everything packaging and plastic food service ware sold in the state to be reusable, recyclable, or 1 compostable. That's a big lift. That's a huge thing, and 2 we'll probably be doing that for some time, but we're going 3 ahead as if it were easy.

4 So I'm going to go through these pretty quickly. 5 It's okay. It's what we do in California. Look, we had a 25 percent goal. We didn't meet it, so we went to 50 percent. б We 7 didn't meet that, so now we're at 75 percent. Pretty soon, 8 we're going to be at 125 percent. Those are going to be awesome. We have aspirational goals. We take climate change 9 seriously. We want to do better, but I guess I'm recognizing 10 11 that that's challenging.

12 SB 54, again, really looking at single-use packaging, 13 trying to get everything reusable, recyclable, or compostable. You could do an hour on that, and you wouldn't cover all of it. 14 They just started meeting. There's an advisory Board. 15 There's 16 a producer responsibility organization. It's a lot, and it's 17 going to -- if implemented as written, it's going to be a 18 dramatic change in how plastic packaging and food service wares is sold and managed in the state. We'll see how that goes. 19

20 1201, which is really where we come in on this space, 21 defines compostability as having to meet ASTM standards free of 22 fluorine compounds, distinguishable from non-compostable 23 products, designed to be associated with recovery of desirable 24 organic waste, i.e. food waste. We don't want compostable cell 25 phone covers or sneakers. Everybody see the Puma compostable

sneaker that came out? Yeah, not a great idea. 1 But 2 fundamentally accepted for use by organic in January 2026. 3 I want to take for a minute and just understand that, 4 again, I said we have 200. We have about 35 facilities in the 5 state that handle mixed materials, so ostensibly food waste and potentially compostable plastics of the 250 or so that we have. б 7 So if you guys do nothing, what I'm really here to 8 say is NOP should do what's right for NOP. Don't worry that California has these ambitions. We'll be fine. There will be 9 plenty of compost for organic if all this goes away. We're not 10 11 trying to drive the bus. We're just -- what 1201 is 12 recognizing is that organic ag and the imprimatur that gains is 13 an important market for compost in California.

So you guys can do absolutely nothing and it'll be absolutely fine, but we'll be talking about this for some time, I'm sure.

17 Just for some context on compostable plastics, really 18 small part of the global plastics world. Roughly 400 million tons or less than 1 percent of that, and yet we spend an awful 19 lot of time about it. It's super granular. There's different 20 21 formulations. Some of those are from corn or starch or other 22 fine materials. Some actually contain petroleum products, 23 which is confusing, and we have a thing called the plant bottle, which is neither. 24

25

So there's a lot of, you can imagine the consumers

totally get this. Everyone knows exactly how to participate. It's super clear. No confusion whatsoever. I noticed a bunch of compostable stuff around the hotel. Starbucks has BPI certified compostable straws, some eco products. There's like four different -- Mindee's drinking out of one right now.

6 How many facilities are there in Milwaukee to take 7 those? Kind of zero. Maybe Compost Crusader will take some of 8 that sometimes, but pretty much there's no infrastructure for 9 it, and that's pretty much the case in many places around the 10 country, which is a challenge.

11 A lot of lookalikes. This one I liked. This came up 12 on LinkedIn the other day. Anyone want to guess which one's 13 compostable? This was from a composter who was actually a big 14 fan of compostable plastics, but it's frustrating because the 15 manufacturers are trying to make replacements, and so they want to make them look alike. This is not a new idea. We've been 16 17 wrestling with this same idea since at least the late '90s, and 18 it has not really changed, but you cannot expect the average consumer to look at those cups and make a distinction and put 19 that in the right bin, even if you have the right bin, which 20 21 most of you don't.

This is some data from some very pro-compostable people that, I'm going to get the name wrong, but this is some study done. In fact, Tim's was one of these sites. This is nine facilities that accept food waste and compostable packaging. This is the game of how you look at this stuff, but I don't like this study. I don't think it's particularly good or robust or scientific, but this is their data that compostable packaging made up 22 percent by volume of this mix.

If you add all the other contaminants with that, if you consider that a contaminant, that's more than all the food waste together. So this collection system, whatever we're doing, isn't working very well. And this has led many composters to install something like this.

10 This is a brand of de-packager. There's many brands 11 of de-packagers now. In fact, there are more entrants into 12 this market because manufacturers are realizing that composters 13 want these because when they see the sea of plastic that comes 14 along, all the food-adjacent plastic that comes along, they're 15 looking to this.

And this -- no one -- that machine installed like that costs you almost a million dollars. Nobody's buying this for compostable plastics. They're buying this to get out all the other stuff because, and I'll beat up my countrymen for a minute, Americans don't want to sort or we can't figure out how to sort correctly. We cannot put the right stuff in the right bin, at least yet.

Unfortunately, when you use a piece of equipment like this, it's very agnostic. It's based on texture and material density and a lot of the food gets wasted. You can see it does pull out a lot of the bags, the picture in the middle, but you end up with not more food waste, but actually less food waste. But composters don't have the time, the inclination, the budget, the resources to hand-sort this stuff as much as they some of them do. Tim does a combination.

6 They have one of these and they have hand-sorters as 7 well and it's a lot. It's a lot to ask a manufacturing system 8 that's taking a waste product and trying to add value so that 9 it's worthy to be put on an organic farm or on any farm for 10 that matter.

11 So here we are. Very aspirational collection of food 12 scraps. Really wanted to dramatically reduce single-use 13 plastics. We had another part of 1201 required CalRecycle, our 14 state waste agency, to see if you could bifurcate the 15 collection of organics, which, don't worry about that. It's 16 impossible. It didn't make sense. Bad idea.

17 But the state surveyed the 35 composters that take 18 mixed materials, got 24 responses, so 70 percent response rate, and none of the surveyed facilities accepted compostable 19 plastics for processing into compost, which means they either 20 21 sorted them out one way or another, either before the 22 composting, during the composting, or after the composting. 23 They're just not -- actually most of it means they're sorting them out they don't want them, or they're sorting them out 24 ahead of time. 25

And in addition to that, we've got to -- compostables 1 2 need to be an acceptable feedstock under the NOP, which is where the VPI petition comes into, which is this bit of text. 3 You shall not offer to sell -- sell or offer to sell a product 4 5 in the state that's labeled as compostable or home compostable, whatever that means. I'm not saying either, FYI. б If it does a 7 number of things, including, as you said at lunch, on or after 8 January 26th, it's an allowable agricultural input under the 9 NOP.

10 So that's why we're here. That's why the petition's 11 here. That's the question we're asking, and I hope you're not 12 completely lost in the numbers. That's all I've got. I'm 13 happy to pass it off to Tim.

MR. DEWEY-MATTIA: Well, I'll just start off and say, kind of echo everybody else, thanks so much for having us here to talk about compost. I mean, you have a lot of things, and look at the agenda, a lot of things on your plate. Compost is big for us, but obviously it's just one portion of what you're doing.

But this is significant, and we appreciate the attention on it. We're a hauler and a recycler and a composter, and we operate in regional facilities in Northern California, and so kind of a lot of what I'll end up talking about when this pops up here is kind of working off of what Matt was just talking about. But I actually was thinking

about, there's a lot that we're doing, and compostable
plastics, I started, I remember 20, 25 -- 20, 25 years ago,
these were already existing.

They've actually been around for a while, and we were 4 5 dealing with them at special events in San Francisco. And my whole thing was like, there's a lot of confusion and discussion б 7 that goes on around this, and this is actually a really 8 important part of the process right now, that we're coming to some type of decision, whatever it is, that will kind of 9 provide us as haulers, recyclers, composters, guidance on 10 11 really how to run our collection and processing programs in 12 California. So we appreciate it.

BOARD MEMBER JEFFERY: Tim, would you mind making the distinction as you're referencing organic wastes in your slides, there's a distinction between --

MR. DEWEY-MATTIA: Very good point, right? Like big 0, little 0. It's interesting. So we use the term organics, carbon-based materials that we can compost. Obviously, you use the term organic, and a lot of the consumers kind of recognize it on the food end of things, not as a waste processing.

And actually, a lot of our collection programs specifically, we don't try to use that term organics to talk about food scrap, yard trimmings, and soil, paper, compostables, and try to come up with other terms because the kind of technical term is organics as in organic waste. And so

1 that's a good point to bring up is that we often are talking 2 about organics in a kind of waste -- for carbon-based products 3 that are being discarded and then made into new things, one of 4 which is compost.

5 I can kind of give a little bit, my slides said these 6 things, but I can talk about them too.

7 So we operate publicly owned, privately operated 8 facilities. We're private operator of, and we're a hauler and a recycler and a composter. And a lot of folks have seen the 9 close the loop, right? The kind of all the consumer, the 10 11 collection company, the recycle composter, and it goes all back 12 around to the producer. And so we're actually dealing with a lot of -- three of those portions of it. So we see it on all 13 -- we see it not just on the composting end, but, and I'll flip 14 15 to the slide now, which is here. Perfect.

Great. So we're doing -- we're kind of doing several steps of the process and it gives us a chance to really see how all these products, including compostables kind of act. And also looking at the -- we're not a landfill owner and operator. So we're really trying to work with our communities.

We work in Napa, but also in a lot of regional communities in the Bay Area and Central Valley, Sacramento area. I'm trying to obviously hit all these mandates that we have from the state and bring in more material to our facilities to make quality end products, some of which are, you

1 know, cardboard and glass and paper recyclables, but also 2 obviously compost and compost that we can list for use in 3 organic ag.

We talked about CDFA and OMRI and we have products listed for both at both of our facilities. We've put in huge amount of upgrades at both our two facilities, millions of dollars in both the recycling and composting end to try to deal with the complicated mix of materials. And then obviously we do a lot of work on the educational end with our customers because that is super key here.

Our Napa facility, small 22 acres. We're fortunate. We're in a really great location with really expensive land, 22 acres. So it's shoehorned in right on, kind of obviously in wine country and right along San Francisco Bay. Composting takes up part of that and you see that in this slide. And then we have a single stream recycling where we park our trucks.

This is a lot of things happening at one site. We've been able to fit in a covered area and static pile system on a two and a half acre parcel to be able to compost food scraps and other materials. And then our Yolo County facilities are near Davis and Sacramento.

We operated a windrow facility in the region for several decades previously and just opened this new facility at the Yolo County Landfill. So public/private partnership. 2022, it's 180,000 tons per year. We filled that up

immediately and we're expanding now another 100,000-plus tons per year. Shows you the demand in California for composting facilities that will take a wide range of yard trimmings and food scrap material from communities that need to hit these target mandates that the state has put out there. And also we have markets for that compost that we can produce.

7 This is our collection program in Napa. Actually, we 8 heard about SB 1383 so I won't talk too much about it.

9 This is actually -- part of that bill is to universalize collection in California between different 10 11 communities so you don't have different color containers, 12 different collection programs everywhere, which is a common problem not just in California obviously but around the 13 country. So the color schemes are being kind of universalized 14 to green, blue, and black or gray, and then the material 15 streams will be kind of become universal because of the SB 54 16 17 That's kind of the goal of it in kind of the coming law. 18 years, that packaging law that Matt was mentioning. So it all kind of comes together. 19

We're trying to work, figure out what goes where. I mean, and having that be something that all of our customers know what to do with. It's the biggest -- we talk about all this investment. I'll show you, I'm processing it, but really the key is on the consumer and really before that, the producer, the big thing. So that then the consumer can put it

1 in one of the three containers.

2 Obviously for organics, food scraps, yard trimmings, 3 that organics, we accept all materials. We do accept the 4 paperware which it's interesting for this discussion we're 5 having about the guidelines. I think we do need more guidance on paper as well, not just compostable plastics as Matt pointed б 7 out, but whether or not it's the collection bags but also 8 unlined materials like pizza boxes and food takeout ware. Like kind of where's the guidance on what is acceptable and what 9 I think it could be useful to have that be figured out 10 isn't. 11 a little bit more.

We talked about feedstocks a couple of times. 12 This is our feedstocks. I tried to kind of have various different 13 It's fairly typical. I mean, we have great pumice 14 images. because of winery operations in our Napa site. So that's a big 15 portion. But otherwise, a lot of California composting even 16 17 with co-collected material, where we put the food scraps in 18 with the yard trimmings, it's still -- we just have a lot of 19 green waste, yard trimmings. And we have year round collection, right? Because in the winter, a lot of stuff 20 21 actually grows.

We've seen an increase in the amount of yard trimmings and green waste that we've been collecting because of dealing with fires in the last decade. There's just a lot more brush clearing. So some folks look at the 80 percent yard

trimmings, only 10 percent food scraps. We actually have way more food scraps in our mix, but we've also seen a huge increase in the amount of just total inbound tons with yard trimmings. So it's been interesting to see.

5 Residentially, you'll see that bottom image. And I 6 put the arrows to try to differentiate between a compostable 7 liner bag and a conventional plastic one. It's still mostly 8 yard trimmings.

9 But the food scraps are mandated. They're also an 10 important part of our process. And then for commercial loads, 11 like on that bottom slide where you see our de-packager down 12 there, you see in the back, you see a lot of green bags, right?

We accept certified compostable bags, even though a lot of them are required to be removed. We put stuff through that de-packager.

16 And then you see some packaged food. So straight 17 from an industrial food provider where there is a lot of 18 material going to landfill that just never even made it to the And that's now required to be diverted. And so we end 19 stores. up having to put in investments for de-packaging. We got a 20 21 grant from the State of California to put in a de-packager. 22 And most of what we put through the de-packager is packaged 23 food. You lose about 20 to 30 percent of the food scraps when you run it through there, but it removes the packaging and gets 24 25 the rest to composting.

A little bit about kind of the process for composting in our two sites, same system. It's a covered aerated static pile, right? So it's static, it doesn't move. Versus the old windrow where we just would turn them with loaders. And then there's blowers. You can see the blowers that blow through from underneath that concrete pad.

7 The company that designs these systems, ECS out of 8 Washington State, there's several other ones that do it too. 9 And this is really becoming the type of composting that is 10 required by air districts if you're going to want to compost 11 food scraps and other materials and kind of deal with all the 12 pathogen reduction and also deal with any kind of air VOCs and 13 try to reduce those.

We run through actually five different points in our process for removing contamination. The biggest contaminant is conventional plastic, the plastic bags and other plastic. Just like in a recycling stream, by the way, where it's also the biggest contaminant. So I think you'll always hear -- you'll hear this come up that plastic is a problem and we're trying to deal with it in several different ways.

We have a de-packager. We have hand sorting on a conveyor belt, not unlike a recycling sorting facility where we have people do it. I know you could potentially use robots to do that too in the future. And then we are doing screening at several points in the process to try to vacuum out the light

stuff, which is the plastic film from the heavier stuff and try
to reprocess our overs. I have a stat at the bottom. 97
percent of what we screen are compost overs.

So, right, we screen three-eighths of an inch. Anything smaller falls through the screen so we get compost that we can sell. The stuff that's bigger, we can't reprocess it because it has too much plastic in it, but it's still mostly not plastic. And so we end up having to send a lot of the wood, wooden bones and other stuff that didn't break down to a small enough size off to a landfill as landfill cover.

11 So I think part of the thing -- I mean, we would like 12 to be able to accept certified compostables for certain usages 13 to try to reduce that number in our overs so we can reprocess 14 that fraction and make compost out of it again. I mean, that's 15 a big thing. We send a lot of organic material to the landfill 16 that we would love to put back into the soil.

17 So this is our end market slide. We have -- it's 18 interesting, you know, in Matt's slide, like 67, 70 percent 19 goes to ag. In our Central Valley, in our Yolo County site, 20 it's almost all of it. And a lot of it goes to nut tree 21 orchards is the biggest market.

Napa, Bay Area, North Bay Area, it's a lot more mixed. Probably less than 50 percent goes to ag while the rest goes to landscaping, home garden use, soil yards, re-blenders, re-baggers. It's a very diverse market.

We sell, right, OMRI CDFA listed compost and people look for that logo, I think even if they're not an organic farm, pretty clearly, whether they're home gardeners or whether they're just looking for that kind of seal to show that it's kind of been vetted and they feel comfortable about it.

But also recognizing we sell \$14 a cubic yard. б We're 7 a big bulk producer. There's other types of material --8 there's other types of compost in the region that are higher And I think those are out there. We're doing municipal 9 end. material, making one type of compost. There's other ones. 10 And 11 it's -- I think the market can handle it for more compost and 12 we're trying to be able to kind of add that back into the soil as we try to reduce greenhouse gas emissions and keep our soils 13 as healthy as possible. 14

There's a lot of words on here, and I would love to get to discussion because I think hopefully you have questions for us. A lot of these are the same types of things you hear, kind of what Matt was talking about. We are trying to get -hit these mandates, make more compost, divert food scraps from the landfill to reduce methane emissions, right? That's a huge goal here.

Trying to also kind of make the rules and make everything make more sense for consumers and put the plastics and the packaging folks in charge of trying to figure out what to do with their problem materials, right? These are all the

things that we're trying to deal with while we provide a
 service, basically a utility service to our community.

3 A lot going on. We've put a lot of investment into 4 the education and the programs and the facility. We're ahead 5 of the game, although a lot of communities are doing this as We have some challenges, and I think the things to б well. remember with this is we're trying to divert more food scraps 7 8 and have less single-use plastic. And I think we still have 9 some ways to go to get people at home and at work and at school to put food scraps into that green bin that we provide. 10 And 11 this is kind of been our challenge.

12 And then we also obviously have an issue with too13 much plastic. So how do we get there?

I'm touching kind of, there's a lot of discussion there just on this compostable plastics and the compostable products. This is just our take, my take on this one. This -there's a lot of nuance, a lot of discussion. I think they offer us the potential to get more food scraps and have less overall conventional plastic if they are properly labeled.

There's a lot of big ifs, but this is true. If they're properly labeled, if they're used for specific usages, talk about fruit stickers. We think liner bags is very useful. You can talk then maybe about certain types of food service where not to replace single-use plastic. We do not want that. I don't think anyone wants that.

But to get there obviously for us and it would have 1 2 to change in the rules. Otherwise, we'll have to kind of look 3 at what to do going forward in California and as a composting site and as a service provider on what are the alternatives to 4 5 trying to collect using the compostable bags and what kind of businesses and our other customers on the end can use it for б 7 food service ware, hopefully reusable, but if not, what's the 8 alternative if it needs to be recycled or compostable and you can't be labeled as compostable anymore in California. 9

So that's kind of like, there's a lot. I think 10 11 that's sort of what I had to say about it. But hopefully we 12 can talk more and you have some questions for all of us. So I 13 believe that is the end of my talk and all four of our talks. 14

So thanks again.

25

Let's all give our panelists a 15 SECRETARY LEWIS: 16 round of applause for their contributions.

17 Those were really compelling presentations and I 18 think we asked the right people to show up today to shed light on some of the thornier knots we're trying to untangle here as 19 part of this work agenda item. So I want to turn it over to my 20 21 fellow Board members to tap the resource that we've assembled 22 and have them answer the questions that you may have and 23 hopefully it spurs a conversation that brings us to the conclusion of our allotted time. 24

Just as a time check, we have 50 minutes to have

1 questions answered. And so I think with that, I'll just open 2 it up and I'll be happy to start a running queue, for anyone 3 who may want to go first. Okay, Brian, go ahead. 4 5 BOARD MEMBER CALDWELL: Yeah, question for Matt б Cotton. 7 And that is, a lot of this went by me, I'm afraid it 8 was pretty quick, but you had a slide that showed, I believe it was sort of a comparison between the amount of dairy manure and 9 the amount of maybe food waste. I sort of missed it. So could 10 11 you just kind of either go back to the slide or just talk that 12 through? MR. COTTON: Thank you for the question, Brian. 13 Ι believe that number I got from this interweb thing and I 14 believe it's 350 million tons of manure. 15 16 California's a huge dairy state. I know we're in 17 Wisconsin, that's probably heretical to say in Wisconsin as the 18 premier dairy state, but we also have a lot of cows, a lot of dairy in California. So yeah, our amount of dairy dwarfs the 19 amount of -- there's obviously a lot more cows than people. 20 21 That's just fundamentally the issue, so --22 BOARD MEMBER CALDWELL: Well, yeah, I don't think 23 there's more cows than people in California. That would be 40 million cows, but maybe there is. 24 MR. COTTON: There are a lot of cows. 25

BOARD MEMBER CALDWELL: That's a lot of milk. But so what was -- I really don't remember, the key thing in my mind is, so what was the comparison between that 350 million tons and then what was the other category and then how much was it?

5 MR. COTTON: So we generate about 40 million tons of 6 garbage every year and about 350 million tons of dairy manure. 7 So the food waste is about five or six million tons and out of 8 -- the numbers, they don't add up. So these are all different 9 sources, different ideas, but the point is we have a lot of 10 different organic waste.

11 We compost a fair amount of that manure, we just 12 don't track it very well. So that's certainly a source for people. People use a lot of manure. They use it directly. 13 They compost it, and I say compost it because I teach 14 15 composting classes and they don't always follow it the way we'd 16 like them to do it, but they do dry it and heat treat it to 17 some extent. So we have a lot of -- California's a very big We have a lot of different organic materials to 18 state. I'm not I'm sure I'm answering your question, but --19 compost. BOARD MEMBER CALDWELL: No, you are, and that's kind 20 of what I was -- what I'm trying to get out of my own mind is 21 22 just, so of the waste, the kind of usable waste stream that 23 we're dealing with, what are the proportions? And I can see that apparently the dairy manure is huge, and are we kind of 24 like wrestling the whole system in order to just deal with that 25

Burke Court Reporting & Transcription (973) 692-0660

143

2 percent of the waste stream? Yeah. And then even a smaller
 2 percentage of that is this compostable issue.

3 MR. COTTON: Let me commit to getting, now you're 4 making me question the number. I apologize, I threw this 5 together pretty quickly. I'm going to go back and verify that 6 number, exactly how many cows we have and how much manure they 7 generate, versus the municipal stuff we have really good 8 numbers on, and I will get back to you on that.

9 It's an enormous state. We've got enormous, you know, the world's largest agricultural production in the world. 10 11 So we use a lot of different organic products at a lot of 12 different times on different crops. We're trying really hard. We've banned -- you're going to laugh out loud again. 13 I respect that, I would have done it myself. We're going to ban 14 open burning in the Central Valley again for the second time 15 because we still burn a lot of stuff, and we're trying to 16 17 incentivize growers, almond growers and grape growers to not 18 burn that stuff. The biggest thing we burn in the Central Valley is grapes, partially because of the way we trellis them, 19 partially for lots of different reasons, but we still burn an 20 21 awful lot of grape waste. There's a tremendous amount of 22 organics that can be managed differently, but we have a vast 23 supply of organic materials.

We have a vast organic or agricultural production.
We use -- really, a very good researcher at UC Davis, Michelle

144

J. Russell, once at a workshop, referred to composting as 1 2 fairly niche in California agriculture, and I got really mad 3 when she said that, and I started thinking about it. I'm like, yeah, she's really right. And Brendan Harrison, who's a 4 5 doctoral candidate now at Berkeley, was at UC Merced and did a study, looking at the 1383, the big food waste diversion law, б 7 and found, in looking at cities and doing this cool 8 mathematical map of cities and farmland, that it would take about 14 years for us to exhaust. If we took -- if we 9 ambitiously went after all the organics in the state in 1383, 10 11 we wouldn't exhaust all the ag land for 14 years.

So we have far more farmland than we have compost. In fact, we're likely, we have, and Tim didn't talk about it too much, and in my other life, we talked a lot about, we have a lot of incentive programs for people to use compost. We have a healthy soils program, we've got a procurement program, we're putting compost down for carbon sequestration.

We probably won't have enough compost, and we need to do more. So lots of compost, I guess, is my message. Again, I still don't feel like I've answered your question accurately. I apologize.

MR. DEWEY-MATTIA: I was going to add on those numbers, we manage -- the dairy manure is managed in sort of a separate system than how we manage municipal solid waste, which is the yard trimmings, the food scraps, right?

And so when we're talking about -- when we do a study, we have good numbers from CalRecycle, the state agency, on what's in the discard stream, and it's 50 percent organic waste, and it's 35 percent food scraps, right? That's not including all that dairy manure.

6 So I think when we look at -- we could divert all 7 that organic waste that we see through our municipal systems, 8 plus stop burning in the Central Valley and composting instead 9 and make way more compost, but there's still ways to use all 10 that compost so we don't have to worry about saturating the 11 market with compost.

If I could, to the ratio question, I 12 MR. COTTON: think the reason California passed 1383 and the reason Jerry 13 Brown signed it, the reason we're doing it is because food 14 waste in the landfill degrades anaerobically, it creates 15 16 methane, much more powerful than CO2 and is a global warming 17 That's why we're focusing on that more than on the manure qas. 18 per se. Manure's already been digested once, so that's where that driver really comes from, is for the climate change. 19

20 BOARD MEMBER JEFFERY: Brian, the slides are going to 21 be in our fall.

22 SECRETARY LEWIS: Go ahead, Allison.

BOARD MEMBER JOHNSON: Thank you so much, Mindee and Nate, for putting this panel together and for all of you and your presentations. This is an overwhelming amount of 1 information, but it's extremely helpful.

11

I have so many questions, but I'm going to start with two lines of questions. The first is building on the point you made. So, is the availability of organic compliant compost in California a factor that's limiting growth of organic? Do we have enough organic compliant compost to serve pretty dramatic increase in organic acreage over time?

8 MR. COTTON: That is an awesome question. I don't 9 know the answer to that. I doubt it. I don't believe that 10 would be a limiting factor.

BOARD MEMBER JOHNSON: Okay. Thank you.

12 MR. COTTON: We have a lot of compost. I think I said that earlier to Brian. We have a lot of compost. And no, 13 I don't -- I think we're about 6 percent organic in California, 14 something like that. So, no, I don't believe that's going to 15 16 be a limiting factor. Access to compost. I mean, if there's a limitation, it's that compost is heavy and it's hard to move 17 18 and it's a massive state. And we don't always have farms right by feedstocks right by markets. So that, it's more of a --19 it's a Yelp problem, not a supply problem. 20

21BOARD MEMBER JOHNSON: Okay, super helpful. Thank22you.

And then, Tim, I heard you say that you're pulling all the cups that look like this out right now because they're not allowed and you have your organic compliant verifications in place. My understanding is that a lot of composting facilities pull out anything that looks like this cup because you can't tell the difference easily between compostable and plastic, and so it all goes to the landfill.

5 And I'm curious -- it seems to me that would still be a problem if we added compostable plastics to the list. You'd 6 7 have this distinguishing between plastic and compostable. 8 Could we go paper and then it'd be easily distinguishable and 9 you could recycle the plastic and compost the paper? It seems like adding the plastic to the list wouldn't fully solve the 10 11 problem, but I'm curious. I'd like to get feedback on that 12 impression.

MR. DEWEY-MATTIA: No, you're asking a good question. There's a lot of steps here. I think if things were -- in a perfect world, we wouldn't have conventional plastic contaminating the stream and we could just get the things we asked for.

18 We know right now the majority of what the plastic materials that end up in our compost are not compostable 19 plastics, they're conventional plastics that will end up in our 20 21 final product. Now, we have done studies on the 22 compostability, whether they break down. They tend to do well, 23 the products, as long as you manage them properly. But we have to pull them out for -- there's two reasons why they get pulled 24 Now, one is that we can't allow them for organic 25 out.

production and we can't make two types of compost. It's not feasible. You have to have all organic or none and we would like to have organic compost.

So the other part is that they're going to get pulled 4 5 out anyway because they act like plastics. That's the point of But we know some of them don't get pulled out no matter б them. 7 how you try. And so then you have a certain amount of material 8 in your end product. I'd rather not have pieces of plastic in 9 the compost. So we're not going to ask people to put plastic bags in the compost to collect their food scraps. 10 We'd rather 11 have it be something that if it made it through our systems, it 12 would degrade. But it's not a good answer.

This isn't -- something needs to change and that's why we would like to be able to use compostable bags. But if not, we'd have to figure out what to do differently. In the long run, I mean, hopefully non-recyclable, non-compostable plastic goes away.

I mean, that's like a little bit pie in the sky but that would be the preferable thing because it's not good for anything in this sense on our end. I mean, and there are ways to use reusable things. I think there's, but there's also going to be some single use products that have to be some type of product that's discarded. And so some of that should go to recycling, some of it should go to composting.

25

And that's kind of, in California, it's really up to

1 the producers to figure out with guidance from the state. And 2 maybe they'll make decisions based on the marketplace. And I 3 think we are a part of that.

So there's a lot, that's a long answer, but single 4 5 use cups are problematic, right? I think there's, you could have a whole discussion about that, but I do think there are б 7 certain uses that we see as beneficial. Fruit stickers, liner 8 bags, some food service, where whether or not cups decide to be compostable, I think it would be nice if they just had glasses, 9 right? And that probably will end up being the thing, but 10 11 maybe it's not appropriate to use PLA plastic for that cup, 12 like we use PET and recycle it. That's just a decision that 13 gets made by the folks.

14 It's interesting in this realm, you have a very unique person, you as a Board, and USDA on our policies in 15 California, which is unusual for a lot of these, all of our 16 17 other recycling, but it's okay. I mean, it's just the reality 18 because it's agriculture. And so it's tricky, your decisions on kind of what to allow, but there's a lot of nuance that goes 19 into it. And that's why you see certain facilities deciding, 20 21 we don't want to take it, we don't want to deal with it because 22 at some point it just becomes too much.

And I think we would be -- and that's okay if you want to make compost and not take any packaging, it's up to you. If we want to kind of push the envelope a little bit 1 further and try to divert more material and know we have the 2 processes to take it, I think that's why we would like to be 3 able to accept it.

But I don't want, right, we don't want compostable shoes, car bumpers, all of the packaging in the grocery store to go from plastic to compostable plastic, that I don't think is going to be a solution.

SECRETARY LEWIS: Dilip, you're next.

8

9

BOARD MEMBER NANDWANI: Thank you, Nate.

First, I'd like to thank you all the panelists for enlightening us on this interesting topic of recycling and composting. It's really very valuable to us.

I have a couple of simple questions, rather clarifications or some information. Since the first question is on bacteria, this is to Dr. Millner. And the second, maybe you can, probably one of you can answer that or add some information.

You know, in organic, at the compost we make, there is a rule, 131 to 170 degree Fahrenheit, the temperature. So, in a lot of compost, they use microbial cultures, as you know that, and you presented also.

Nowadays, there are some GM bacteria also available. And my question is that, are you aware of that, that if those temperatures, if those microbial cultures, they use it, are they going to go away during that high temperature? Or are you

151

aware of those any GM bacteria or fungus, maybe? And when they are processed in recycling, would that be still there? Or, you know, because that's known as a GM product.

The second question I have with you is that on C/N ratio, have you done any study on your recycle, when you make this organic compost, that C/N ratio is within that, you know, the limit we have like 30 to 100. Probably you have done that. So, this is just for, I'm curious to know about that. So, thank you.

DR. MILLNER: As far as the microbes are concerned, I myself am not aware that people are adding GMO-type strains to inoculants. I know that there are a number of inoculant types that are available. But I have not heard of any GMO specifically.

So, if you have, please let me know. In terms of what will survive the process, definitely spore formers, like bacillus. And there are a number of other bacillus-like organisms that form thermoduric spores. So those will survive this process.

The other thing to remember about microorganisms that come to the situation naturally, there's a whole lot of different microorganisms that come into this. Now that we have microbiome studies, you can see that there's just an innumerable variety of different kind of microbes that start and still finish. There are organisms that remain and that's not unusual. You want microorganisms to remain there to continue doing the beneficial processes that they do in terms of degradation of organic compounds and the whole turnover process.

б The big thing to remember about this is that when 7 you're trying to get rid of pathogens, either plant pathogens 8 or zoonotic pathogens, is there are lots of studies done on looking in different parts of the pile, how much time, 9 temperature, and so on. But you're dealing with tons and tons 10 11 of material. And your analyses at the end of that process are 12 as good as the number and the quantity of the individual samples that you're able to analyze. And there's limitations 13 14 to that.

You can't analyze 100 pounds of it all at once. Have to do samples, multiple samples from different locations. And so when you take that into account and you're looking at a risk analysis, you come to there's no 100 percent chance that you're going to eliminate everything. You can't be that sure. It's acceptable risk. That's what your target is.

21 What's an acceptable risk? You're not saying it's 22 absolute. Does that help?

BOARD MEMBER NANDWANI: Yes, it did. Just, did I hear correctly that you mentioned that spores can still be there in that high temperature, right?

DR. MILLNER: Right.

1

2 BOARD MEMBER NANDWANI: Thank you. Very helpful. 3 Thank you for asking me the easier MR. COTTON: 4 question. I appreciate that. And I want to be really clear. 5 My colleague, Dr. Rink, and I have taught composting for the last 18 years, both the week-long operator training course and б 7 a one-day course that we teach. We've been fortunate to teach 8 it all over the world. And he would absolutely, 100 percent tell you that C/N ratio is really, really important. And the 9 science is there. The science has been done. It's relatively 10 11 old science. But there is an optimum starting C/N ratio in 12 composting, 100 percent. I don't, the biggest fights Bob and I get into, and 13

13 I don't, the biggest fights Bob and I get into, and 14 he is the more academically credible person, he's been doing it 15 longer. He edited the composting handbook. It's just my 16 opinion. I don't find starting C/N ratio to be very useful. 17 So having it in the NOP, having it repeated by OMRI, having it 18 out there in the field doesn't really help.

19 It's not frequently -- most, and there's a -- the 20 composting family is a big family. And we're really small 21 backyard composting to a small, the core of the NOP membership, 22 the smaller growers that might do some composting on their farm 23 to larger or medium-sized to giant composters. The science is 24 absolutely there. I just don't think starting C/N ratio is a 25 very useful metric. I'd much rather people focus on porosity 1 for airflow or pathogen reduction or getting the right moisture 2 content.

3 The only way you can know for sure what your C/N 4 ratio is to send it into a lab. If they're going to send a 5 sample into a lab, I'd rather they send a finished compost sample for pathogen reduction, for nutrient analysis, for б growth testing and emergence testing if they only had one to 7 8 So yeah, the science is 100 percent there. Bob would choose. hate me for advocating this. He is right, but -- and the 9 science is there. Again, a ratio of 30 to 1, and I could show 10 11 you some work from 30 years ago showing that you will volatile -- you will conserve the nitrogen, particularly in a manure 12 pile. You'll conserve that nitrogen with a 30 to 1 or greater 13 14 C/N ratio.

But you could absolutely, I would bet, if Tim measured his starting C/N ratio, which he doesn't, it would be much higher than that, and they do fine when you're doing 60, 80,000 tons a year and more at Napa, or at, excuse me, at Yolo. So it's just not a terribly useful metric.

20 MR. DEWEY-MATTIA: And we actually have to test it 21 once in a while for this reason. We don't test it --

MR. COTTON: Right.

22

23 MR. DEWEY-MATTIA: -- like, because it's part of the 24 requirements to be OMRI or CDFA list. If we have to send off a 25 test, and it's different, we send a finished compost test,

1 right? You take the samples from your finished compost pile. 2 It's all 3/8 inch minus. I mean, you're inbound feedstocks, 3 like trying to fill a five-gallon bucket. It's a challenging 4 thing because you have wood, you have a bag of food scraps, and 5 it can -- I don't know if it's really an accurate test.

MR. COTTON: It's not --

7 MR. DEWEY-MATTIA: Representative, it's accurate of 8 that bucket, but representative of a huge pile, it's very hard 9 to measure in any kind of way that's reasonably useful, just 10 because it's an initial measure of this huge, giant pile of 11 feedstock.

And so we thought it was always sort of a less, because you could do one test sample, and it would be much different, but it'd be lower than 25 to 1, and it wouldn't be that -- it would be from the same area, and you could have gone and gotten a different one, and it doesn't really have any effect on what our finished test, because the finished tests also test for C/N ratio as well.

MR. COTTON: Right. And composting is a really forgiving process, and if you're not, if your C/N ratio is so out of whack that you're not getting the temperature, you'll know because you're not going to be getting the temperature. So you're going to focus on other things than dialing in that C/N ratio.

25

б

And sure you can look at lab values or book values,

there's an appendix to the composting handbook with 7,500 1 2 carbon-nitrogen ratios, but it's just not something we focus on 3 when we teach the -- I've been teaching week-long compost operator training classes across the U.S. for 15 years, and 4 5 it's not something we talk about. We talk about finished C/N ratio, which is really important for ag application, sort of б 7 nitrogen, lots of other things, but again, if you only had a 8 budget to do one test, I would much rather see that test at the end of the process for pathogens, for nutrients, for compliance 9 with physical contaminants, metals, micronutrients, salts, pH, 10 11 organic matter, et cetera, so one better lab test than 12 starting. If you're -- it's a good BMP -- again, science is 13

14 there, it's a good BMP, it's something we teach religiously, 14 and the finishing slide of our second lesson is C/N ratio 30 to 16 1 or 40 to 1, I get that, but having it in the rule, I think, 17 is probably not terribly useful.

BOARD MEMBER NANDWANI: Just for the record, BMP is best management practice, right?

20 MR. COTTON:

21

BOARD MEMBER NANDWANI: Thank you. Yes --

Yeah.

DR. MILLNER: I just was going to add to this, is that with the pathogens, even though you're getting to an acceptable level if you go through the process the way it's prescribed, that doesn't mean that if there's another inoculant

that comes into that, a bird flies over, or a fox visits the 1 2 pile top in the evening, or some other intrusion that you're 3 not expecting, and that brings salmonella in there. It doesn't mean that that can't regrow, and that depends to a great extent 4 5 on the moisture content that's there and the soluble carbon and nitrogen that's available. In order for that to regrow, it б 7 needs an acceptable type of soluble carbon. All that insoluble 8 carbon doesn't help salmonella, E. coli, or listeria. They have very specific requirements. 9

10 So it needs to have some other evaluation at the end, 11 in addition to just the end point. Is it a carbon-nitrogen? 12 Is it -- what's your value for -- do you find a certain number 13 of E. coli, or whatever measure you're going to implement. It 14 reflects more the end product quality if you're looking at how 15 are you going to use that, and that ties into, as well, what 16 happens when you apply that for your plant production system?

17 It's remembering that you're mixing it with soil. 18 Whatever is in that soil is going to see those nutrients, too. 19 And that could be plant pathogens that are still in that soil, 20 or it could be some incidental salmonella, or whatever other 21 bug that happens to have been in that soil. If it sees soluble 22 carbon, it can regrow.

What's the most obvious source of soluble carbon in that soil where you've got your plants? It's the roots. They're constantly exuding nutrients, soluble nutrients that we

1 know bacteria love.

б

BOARD MEMBER NANDWANI: Thank you for scientifically
explaining that answer. I appreciate it.

SECRETARY LEWIS: Okay, we've got Amy, then Kyla,
then Nate, then Mindee.

Go ahead, Amy.

7 VICE CHAIR BRUCH: Thanks, Nate. I had several 8 questions, but the first one that I'll ask here in the queue 9 would be probably targeted to Doug, and maybe Pat, with your 10 expertise in pathogens. Kind of continuing on with the testing 11 and research, OMRI requires lab analysis from compost 12 producers, and we mentioned the leafy green marketing 13 agreement.

There was a public comment that said that the leafy green marketing agreement has tighter windows of acceptability for these pathogens compared to the NOP guidance right now. Is that something we should look to mimic the leafy green marketing agreement for those standards on pathogens, and update that piece for food safety?

DR. MILLNER: For leafy green production, or herbs, or certain other commodities like cantaloupe production and that sort of thing, where we know there have been incidents of recalls and foodborne illness outbreaks with certain types of commodities, it's a whole system, so it's not just the product or the compost that's added, or whatever other soil amendment

is added, but it's a whole process that they use, and there's 1 2 some studies that show it has to do with the type of 3 cultivation that they're using, because the type of cultivation can throw some of the soil, amended soil or whatnot, up onto 4 5 the plant, and it gets into the core of, let's say, a romaine lettuce seedling, and it remains there during the whole б 7 production system, so it's not just the product, it's the whole 8 So I don't want to pin it on one thing like that, but system. 9 they have taken this into account when they're looking at how that production system is operated in a variety of places in 10 11 California, because they've seen it in action. 12 I know that's not a final answer for you, but that's 13 the reality of it. VICE CHAIR BRUCH: Okay, thank you. That's helpful, 14 15 and so I appreciate that. 16 SECRETARY LEWIS: Kyla? 17 CHAIR SMITH: Yes, hello. So I think I heard Matt in 18 his presentation say, like, you do you, California will figure it out. 19 20 So, I think my question's for Tim. Like, come January 1st, 2026, like, what does that look like for you, if 21 22 we keep things the same? 23 MR. DEWEY-MATTIA: Right, so if nothing changes, the rules are the same. The first change that happens is that you 24 25 can't -- if it's anything that's not on the allowed list, no,

1 it wouldn't, so any compostable plastics or any non, any paper 2 that's not, you know, newspaper or recycled paper, wouldn't be 3 able to have a compostability, compostable label on it.

Right, so there'd be no labeling allowed on any of 4 5 these things that we see as certified compostable. Like, that would be -- so that paper cup could still exist in California б 7 for a little while, although I'll get to that, but it won't be able to have the BPI logo on it, or anybody else's logo. I 8 think then what will happen in the next five years is that 9 since it's not recyclable or compostable, it will be banned by 10 11 SB 54. So that's the packaging law.

So that's what happens. So what will happen to us as a recycler or a composter? We will have to figure out what the guidance is, kind of based on what still exists and what we accept, and we won't accept these things because they won't be called compostable. This is most likely, right? So then it won't be a compostable item anymore. So all these things that are compostable products will probably go away.

19 That's my guess, but we don't know yet. So it's 20 interesting to -- it'll be interesting to see how it works out, 21 but that's the kind of most obvious.

SECRETARY LEWIS: Go ahead, Nate, and then Mindee.
BOARD MEMBER POWELL-PALM: That was my question.
But, Matt, is there a conversion factor for, say, how much a
ton of cattle manure becomes compost? Like what that ton to

Burke Court Reporting & Transcription (973) 692-0660

161

1 yard conversion is?

2

MR. DEWEY-MATTIA: Yes.

BOARD MEMBER POWELL-PALM: And one you could share?And I'm just trying to make sense of these numbers.

5 I want to just build off Brian's line of questions, 6 where are we really not talking about the right stuff? If 7 we're going to be growing organic acres in California, is it 8 really going to be a factor of cattle manure and orchard waste? 9 And this is something that is impactful for other reasons, but 10 not necessarily to be the nutrient source for agriculture.

MR. COTTON: Yeah, great question, great clarification. I hadn't really looked at it from that perspective. That's why these meetings are so awesome, because different people, different perspectives can look at it in a different way.

16 And I don't think -- I don't know what organic 17 growers, again, it's a massive state. We have organic growers 18 all over the state growing all sorts of different things in all sorts of different ways, with different ways to amend their 19 soil and provide fertility. So there are plenty of them that 20 use manure, and there are plenty of them that use compost from 21 22 Tim's facility or any one of the other hundreds of facilities 23 we have.

24 So this affects, at the moment today, 35 or less 25 facilities. But we have ambitious plans to divert more food

There's an awful lot we think we can divert. 1 scraps. 2 We expect -- I expect more of that to go to 3 composting than anything else. So one person -- there was a 4 really interesting article in the Fresno Bee, the heart of the 5 Central Valley, that said 13, because 13-3, weirdly, 13-3 is not universally beloved throughout the state. Seems very б 7 ambitious, especially if you're living in one of the rural 8 areas or not in the Bay Area or Los Angeles. But there's a great editorial in the Fresno Bee that 9 this increased availability of food scraps and compost will 10 11 actually drive the price of compost down. So that is good for 12 farmers, organic farmers, international farmers, everybody. So I expect the availability of compost to increase, but it's a 13 fair question, and it's one we don't -- I think Tim mentioned 14 it really well, we tend to put these materials in certain silos 15

and for years, the work that I did and to some extent Tim does, 17 if it went to a landfill, then we worried about it. If it 18 didn't go to a landfill, it wasn't on our plate, that was somebody else's problem. 19

20 So yeah, we've asked several times. My colleague Neil Edgar with the California Compost Coalition has asked to 21 22 do -- asked the state to do a larger organic inventory because 23 we have all sorts of organic materials we could look at, we should look at the big picture. 24

25

16

But I think the manure is more managed because it

happens, most of it is already in the agriculture area, it's 1 2 dairy adjacent or on the dairy or close to. If you haven't 3 been to California, please come out, please come spend your tourist money in California. Take the train from Sacramento to 4 5 Bakersfield and you will not have a minute where you're not watching a vineyard or an orchard or an organic farm or б 7 something going by. The range of our organic production is 8 astonishing.

9 So I don't think it's an either or, it's a yes and. So we are composting more manure, we will continue to do that, 10 11 we're going to compost more food waste, going to continue to do 12 We're putting compost on rangeland which is something we that. 13 didn't talk about even 10 years ago. So the news is great and it's a golden age for compost research. We're doing more 14 15 research, pure academic research at Davis and Merced and 16 Berkeley and UC Santa Cruz than we've done in years.

17 So we're really looking at, largely that's due to how 18 to grow plants better and what are the impacts of climate change. What happens if you have less water? What happens if 19 it's a heating climate? So we're doing some really important 20 21 work right now and this is a small detour on that road but it's 22 an important one because we're always going to send -- a lot of 23 this material is going to go to ag, whether it's certified ag 24 or other ag.

25

So I probably didn't answer your question.

BOARD MEMBER POWELL-PALM: Well, I could tack one
thing onto that.

3

MR. COTTOM: I should mention too -- I apologize.

1383 definitely deals with, again, you only know the
space you're in. I deal with the waste side of it, the organic
waste side of it, the carbon based waste side of it. There's a
whole part of 1383 that deals with areas I don't really know a
lot about.

9 So we're not looking at just one piece of that. It's 10 a whole system. There's a part about carbon black and reducing 11 that. Again, not my space but.

12 BOARD MEMBER POWELL-PALM: Sure, sure. Kind of a 13 little higher level and I hope this isn't a useless question 14 but is there a reason that in thinking about where compost goes that it has to go to our food, as opposed to all the other 15 16 biological eaters, lawns, roadsides, other places to think 17 this. Why do we have to divert something that is concerning 18 right to the source of something that we're going to re-ingest?

Man, I can't thank you guys enough for 19 MR. COTTON: ever inviting me to this because I love -- that's a brilliant 20 21 I love that question. I have no idea what the question. 22 answer is. I guess we don't. And in most other states, I want 23 to be really clear, that data that I showed in California, the pie chart, that's work I did for CalRecycle in 2019, that is 24 unique to California. That is not the case in most other 25

states. Even in Washington, most of their ag is on the other side of the Cascades. You can't take urban compost over those mountains and get it, in most cases, to the apple farms of eastern Washington.

5 So in most cases, we don't. Do we need to? No. Does it provide a great source of stabilized organic matter? 6 7 Absolutely. I don't share the fear that there's more risk than 8 there is reward. I think the use of compost, I think we could have banned all organics from landfill just for the water 9 holding capacity benefits alone. There are so many benefits 10 11 and co-benefits of keeping it out of the landfill, putting it 12 on soil. I think the risks are real, and we face them with 13 science and determination and USDA and our good friends at UC Davis and other places, and they generally don't prove to be 14 15 fatal.

We aren't seeing -- you know, Pat knows way too much about pathogens and leafy greens and other things, but in general, we're not seeing, most of the food scares you see, let me predict, sometime in November, there's going to be an E. coli scare in romaine, somewhere that came from Arizona. It happens almost every year. Nothing to do with compost.

Turns out there's a lot of people picking that stuff, and there's one porta potty way over there in a thousand acres, and there's a whole lot of sources for that. Compost is rarely one of them. BOARD MEMBER POWELL-PALM: And I'll clarify my concern being more the plastic and the PFAS from the plastic, rather than the pathogens

MR. COTTON: Yeah. Yeah, if you're not for zero plastic and compost, how much plastic are you for? I'd love to get all of it out, 100 percent. And I think most of the composters would too.

BOARD MEMBER POWELL-PALM: Thank you.

8

DR. MILLNER: Well, there are other uses of a lot of 9 compost is, and they're probably out here in the East. 10 I don't 11 know so much about California's situation, but the Department 12 of Highways in different states are using a lot of compost for 13 renovation of very slopey areas, the socks that people are using for catchment wash off from lots of different spaces, 14 15 pavement, and macadam type things to catch before it goes into 16 the drains out into an open waterway.

BOARD MEMBER POWELL-PALM: And so if we could have rewritten 1201, it would have been that -- not that it gets banned if it can't go to organic, it just could go somewhere else. But right now there's nowhere else for it to go by the law. Am I understanding that right?

MR. COTTON: Well, let me see if I can add some clarity to what Tim said in the hypothetical that if 1201 being what it is and the NOP decides to do nothing and just keep it status quo, we will continue to make compost and we'll continue to make compost out of food waste, we'll continue to make compost out of manure, continue to make a lot of compost out of yard waste. And it doesn't have to -- where it goes is a function of what markets are there locally and what's available. We do sell a ton to Caltrans. They're up to like 5 percent now statewide, which has taken decades to get there. We worked really hard to do that.

8 But we're not -- what 1201 is acknowledging is that 9 composters want to sell into organic. Selling to organic is 10 very important to them. It's valuable. And just as much as 11 it's valuable to organic farmers to have a local source of 12 compost available.

You know, Tim happens to be in an incredibly privileged place of the Napa Valley, which just lowers my blood pressure every time I drive up there and just see the grapes growing on the hillsides and it's fantastic. And they're using more and more compost. They're making their own compost.

So no one is required to buy or use any compost. We've just developed this thriving, incredibly successful. It's the single most successful thing we've done in recycling in 30 years because we've taken urban organics and put them on agriculture and really smart people were hired by CalRecycle in the '90s that told us we could never do that.

And it's been incredibly successful and the benefits are there. It doesn't have to go on organic and there's

absolutely no organic farmer that has to buy any compost from 1 2 anywhere. They can make their own. They can buy it from this 3 user or that user. It's a big free market there. No one's going to be required to do -- to put compost anywhere. 4 We're 5 not forcing anyone to. We're giving them the opportunity in this abundance that we have and the societal benefits of б 7 keeping these materials out of landfills. And it's a co-8 benefit, but again, we probably sell a lot more.

9 I think we said 5 or 6 million tons of compost to 10 agriculture or total. So 60 percent of that's to ag. I don't 11 know what the percentage is to organic ag, but they have lots 12 of sources of fertility they can use. So they could completely 13 balance. And let me --

14 SECRETARY LEWIS: Hey Matt, I'm going to interrupt 15 and just have Tim add into this and then we've got a -- still 16 have a queue and about nine minutes left.

MR. DEWEY-MATTIA: Just one thing, because we talked about PFAS and that's banned from any food service ware already. That's -- so it doesn't matter if it's compostable plastic, compostable plastic, a lot of those are actually in paper, right? And fiber based.

So it's not allowed in any type of food contact material. So 1201 actually, there's no -- there isn't -- I mean, sure something could get in there that's illegal, but it wouldn't really affect PFAS, right? PFAS unfortunately are

everywhere in the environment now, but actually any type of 1 2 material, they're banned from all packaging as well. 3 So this actually won't affect that part of it since 4 that would just be about whether it allowed for organic or not, 5 but PFAS is allowed in nothing. Thanks -- thanks, Tim. б SECRETARY LEWIS: 7 Okay, we've got a long queue and nine minutes 8 scheduled, which we may run into some of our break, but I just want to keep everyone pithy in the words of our former chair. 9 So I have Mindee, then Franklin, then Allison, then Amy, then 10 11 Wood, and then Kyla. 12 And we'll be hard pressed to get through this, but let's do it. Like I said, it's always a good time to talk 13 about compost. 14 15 BOARD MEMBER JEFFERY: So Matt and Doug, Doug in your 16 comment, there was a reflection on the windrow requirements for 17 the 15-day turning. And then, Matt, in your slide, I saw how 18 low the windrow numbers were. Like the number of systems using windrows was like 19, I think you said, and composting other 19 was 184. Did I get that wrong? 20 21 Either way, question will be the same in a way, 22 because my question is the 15-day requirement seems like a 23 little bit of a barrier if we're interpreting it as 15 consecutive days. And so I want to hear from your expertise 24 25 and what you teach at U.S. Compost Council about that

requirement. And also, Doug, if you can unpack your written
 comment, you guys are following me.

3 MR. CURRIER: Yeah, so any compost that's marketed as 4 a windrow compost is going to get that 15-day and 5-day 5 turning. If it's not marketed that way, it can go in the 6 compost other. So that's three days above 131. And so that 7 was the slide that had, I think, 184 or so products that are in 8 that other category.

9 We've got a much smaller amount in windrow, and those are only there because they're marketing their products as 10 11 windrow. Same goes for static aerated pile. That's taken 12 directly from 203. So 205.203 talks about windrow static 13 aerated pile and the NOP guidance goes further to clarify there are other methods that reduce pathogens and can stabilize, get 14 15 stable compost.

BOARD MEMBER JEFFERY: And is it generally consecutive days, the requirement?

18 MR. CURRIER: No. I don't -- yeah, I think --MR. COTTON: The answer's no. 19 20 MR. CURRIER: So three days, yes. 15 days, no. BOARD MEMBER JEFFERY: Right, so it's three days in a 21 22 row at temp, five different times, but it doesn't have to 23 happen in 15 consecutive days. MR. COTTON: Correct. 24 25 MR. CURRIER: Yes, that's right.

MR. COTTON: The basis for all that is 40 CFR part 1 2 503. It's three sentences. One is for aerated static pile, 3 two is for windrows. It doesn't use the word consecutive. MR. CURRIER: Yeah, okay. 4 5 SECRETARY LEWIS: Pithy. 6 MR. CURRIER: Yeah, and we require consecutive for 7 three days because we think compost --8 BOARD MEMBER JEFFERY: Yeah, three days 9 consecutively, but five times in only a period of 15 days. MR. CURRIER: Right, yeah. Yes. 10 11 DR. MILLNER: And taking the sample after the turning 12 is good to do that because you've got this mixing, and you're 13 not just isolate -- taking from isolated samples. SECRETARY LEWIS: Go ahead, Franklin, and then I'll 14 amend the queue so Wood, who has yet to ask a question, can 15 16 interrupt. So it'll go Franklin, Wood, Allison, Amy, and then 17 myself will hopefully wrap up there. 18 BOARD MEMBER QUARCOO: I'm trying to put my finger on the main motivation for this. Is this a way to find an outlet 19 for compostable plastic or there is an actual need in the 20 21 organic compost industry for it? Is this not going to be 22 another layer of purity test where people say, okay, mine has 23 it, mine doesn't have it kind of thing in the organic industry? MR. DEWEY-MATTIA: Yeah, obviously, maybe people have 24 25 other thoughts on this. For us, it's a way to have actually

less plastic in our compost, I think, and to get more food scraps. So we actually, I know, and believe me, I'm sure there are just, I'm not naive, I know there are companies out there trying to sell products into the marketplace.

I do think that in certain usages, it's a better alternative to conventional plastic. So that's on our end, so that we can make our product and make more of it and make it clean and healthy.

9 BOARD MEMBER QUARCOO: That's the impression that I 10 get, that it's a better alternative, not necessarily that it's 11 a good option, is that it?

MR. COTTON: It's definitely not necessary. I think it's a tool that some manufacturers use, and there's an assumption or a belief that in using, say, a liner in your kitchen, you will get more people to participate in a food scraps program, and it's sort of blossomed from there. But it's absolutely not necessary.

We've been composting food for decades in California without compostable plastics. They're just a tool, and they're either a benefit or a hazard. In the short term, not enough places to take them. They're too hard to identify, and they disqualify you from selling to organics. So at the moment, they're probably more of a hazard than a benefit for most composters.

25

But just to be really clear, the last point I wanted

to make, there are plenty of composters that don't touch this, don't have to do -- I've got plenty of clients that don't, they've looked at food waste, they see all the adjacent plastic and say, you know, thanks, let someone else do that.

5 The majority of composters in California don't handle 6 food. It's a relatively small club. So it's a choice that 7 people make, and then with that comes other opportunities, 8 responsibilities, I don't know what you want to call it, but I 9 hope that answers that question.

10

SECRETARY LEWIS: Go ahead, Wood.

BOARD MEMBER TURNER: Go ahead, Wood. I'm curious, Tim and Matt, if you have any, from your networks, if you have any insights into how much money's been spent in kind of the composting world to handle contaminants, to pay for labor, to develop ostensibly biodegradable materials or compostable materials.

17 I'm just curious about the order of magnitude that's 18 gone into the handling of materials and the creation of materials that theoretically could be handled by that system. 19 And the reason I'm asking the question is because I feel like 20 21 we've given up on the recycling. We've given up on recycling 22 in this country. And I'm curious if I'm right or wrong about 23 that, because I'd actually rather see -- I think I'd rather see us deal with the plastics, actually put the plastics in the 24 recycling bin, put the right plastics in the recycling bin, or 25

have the right system for the plastics in the recycling bin and
 leave this stuff alone.

3 So I'm just curious if I'm right about that, wrong 4 about that, and if you have a sense of that number.

5 MR. DEWEY-MATTIA: I mean, not enough, we haven't 6 invested enough in it. I think that's the first thing. Like 7 as a society, I think it would be good to invest more in it.

8 What -- we've invested tens of millions of dollars, 9 we as like our government partners and us as a company in the last decade to upgrade our operations to make them able to 10 11 handle, for environmental compliance, but able to handle a wide 12 range of materials. And this is both in recycling and in composting. So we've done 20-plus million dollars of upgrades 13 in our recycling sorting to deal with the changing material 14 15 stream.

And it's challenging. There's a lot of weird 16 17 plastics in there. There's also more cardboard than there ever 18 was. So you have to kind of tweak your whole systems. Cardboard is good, we can recycle it. But when you go through 19 all this, you realize there's certain things that are never 20 21 going to be captured in recycling. It's just that plastic is a 22 problem, especially some of the low grade things. They have a 23 very low value. The whole point of them in the first place was to make single use things out of petroleum, like in natural 24 It was never, that's the idea. And recycling them into 25 qas.

something new sort of defeats the purpose by the petrochemical
 industry.

3 So I think you realize when you look in the recycling 4 that there are some things we would need to spend more money on 5 capturing and figure out packaging, but also some of the stuff 6 needs to get out of there.

Now I don't want to just stick all that in the compost. But I was thinking about this about certain things. I mean, soiled paper, like napkins, something we can compost, not really recyclable. You know, I was looking at the coffee pods. Like, is this compostable one going to be the thing that finally gets us that? I don't know.

But you look at it, and then on the flip side, right, in composting, it's we need to try to reduce the contaminants. And I think there are certain things that we know are going to exist. And I think some of them are more -- we see there's more of a chance of us doing something with them in compost.

18 And some of that is so that it's not in the recycling But really, the biggest thing here for us is to be 19 stream. able to get more of the big piece of the pie, right, and get 20 21 that into compost instead of the landfill. So it's all -we've put a lot of millions of dollars into it. But I think 22 23 what has to happen now is that the packaging folks need to kind of take this on. And we've given them that as part of the 24 statute in SB54 to figure out what can actually get recycled 25

and composted. And we'll be there to take stuff that we want or that they'll pay us to take or that we can take. But it's not up to us to kind of keep figuring out a way to spend more money to solve their problems.

5 SECRETARY LEWIS: Allison, and then Amy, and then 6 myself.

BOARD MEMBER JOHNSON: Thank you. I'm going to direct these questions at Doug, but welcome anyone else to weigh in too.

Following up on Kyla's question earlier about these cups and paper generally, Tim, you mentioned the pizza boxes. Are any of those allowed currently in organic compliant? I know we have newspaper on the national list. Are there other paper products that are currently okay? Or would that whole world need to be addressed?

MR. CURRIER: Yeah, there's other recycled paper component on the national list. We look at like wax cardboard and, you know, cardboard with, you know, glues and things like that. Do you guys see pizza boxes like that?

I don't think we've, yeah. So, yeah, I think the other recycled paper is a very, you know, liberal. I think we look at that liberally.

BOARD MEMBER JOHNSON: Yeah. And then the follow-up
 question is, you mentioned contamination in the air quotes.
 MR. CURRIER: Yes.

BOARD MEMBER JOHNSON: What are you doing? I buy organic compliant compost bulk bags. It all has glass in it. Like where are you looking at as a threshold? Or what do we do?

5 MR. CURRIER: Yeah, and so one thing I didn't talk 6 about is our foreign feedstock removal. And we are identifying 7 some things as high risk. So municipally collected on 8 clippings, food waste.

9 So we're requiring foreign feedstock removal prior to 10 composting. So before you're hitting that pile, we're wanting 11 people to ask, or we're asking people to describe how they're 12 removing contaminants. It is not 100 percent.

So we also see people screening, although I'm hearing perhaps that's less of a thing these days, but screening final compost. And so that's also a method. And when we get complaints, we're following up with a corrective action plan for folks.

So if someone is finding things like glass, bottle caps, things like that, they can tell us and we can work with the company to identify a source cause and what they're going to do about it. But that said, it's not perfect. And so bigger composters have targets of very small amounts of contaminants, but they're still going to be there.

24 MR. COTTON: Just to add really quickly, in 25 envisioning our ambitious food waste reduction goals, the state

implemented a physical contaminants limitation in finished 1 2 compost that every commercial composter has to meet in 3 California, but that's one of the only states that has that. 4 And it's a good start, but it's not -- it's less than four 5 millimeters, so if you screen it fine enough, you're, you know. б It's a start, it's very new. You know, again, 7 regulating this on-farm practice into a commercial compost 8 manufacturing industry is fits and starts, and we're getting a lot better, but we have a long way to go, so. 9 SECRETARY LEWIS: Go ahead, Amy. 10 11 VICE CHAIR BRUCH: Yeah, thank you, Nate. 12 Matt, this is a follow-up on one of the points you made in your presentation. You mentioned retailers are 13 incorporating more and more compostables into their -- just 14 15 what they sell. What's the percentage, or just kind of a gut 16 feel for the push for certified compostables with those 17 retailers? I haven't heard too much of talk about the 18 certified compostables. MR. COTTON: Yeah, I don't know, and Rhodes Jepson 19 from BPI is sitting right over there, and I don't know if he 20 21 knows the answer to that. And he would, if anyone knows, 22 Rhodes would know, and I don't know he knows that either. Of 23 the total world of compostables, how much is certified

24 compostables? I mean, BPI has taken the lead on trying to 25 police the industry, but they influence the people they

influence. But there's a big world out there of -- a lot of 1 2 these companies are not small companies. They're international 3 chemical companies, so it's really hard to track, because they might make a resin, like NatureWorks, which is a subsidiary of 4 5 Cargill, makes PLA, it's probably the single biggest compostable plastic we make in the U.S., but they just make the б 7 They don't make the forks, the plates, the cups, resin. 8 wherever it is. So they -- we don't track that well. In 9 Europe, the European Bioplastic Agency does a better job tracking their stuff, but we don't track it very carefully. 10 11 So I don't know the answer to that. But I suggest 12 you follow up with Rhodes. He might know. 13 VICE CHAIR BRUCH: Sure, same. Okay, thank you. SECRETARY LEWIS: All right, I'm going to go to one 14 of the topics that I've been telling my fellow Board members to 15 do, which is channel their inner fruit sticker, and focus on 16

17 that for a minute. I know it's a headache for composters, and 18 as I mentioned, I make my own compost on my farm. I collect 19 food waste from exactly one kitchen, and somehow, fruit 20 stickers still make it through, even though I peel them off 21 every single avocado.

So I had a question for Pat about whether you got a sense on the timeline for the availability of a compostable fruit sticker that the industry will accept. Did you get any sense around, is this five years away? Is this a pipe dream -- 1 your microphone?

25

2 DR. MILLNER: I couldn't get a sense from talking 3 with Dr. McManus about a timeline. They've done what they 4 think are -- they're getting down the right track now. They're 5 close, but he wouldn't commit to a particular timeline. б There's some obstacles still in the way. They're technical 7 obstacles. 8 SECRETARY LEWIS: But it sounds like he's optimistic it will work. 9 DR. MILLNER: Yes, I think that they are optimistic, 10 11 but they just need more time, and they've done a lot of 12 combinations so far, and they're progressing.

MR. COTTON: Just a really quick comment on that, because I've actually seen compostable fruit stickers. I have no idea where I got them. Someone sent them to me, as people do with this stuff.

17 But just because you can make it, and this is true of 18 all the compostable plastics, doesn't mean it can travel through our system and we can deal with it. It's not going to 19 come off in a de-packager, so the fruit sticker may be the one 20 unique situation. But it'll be great if USDA can make and 21 22 provide an open source a system for that. But then you've got 23 to convince every packer, every shipper, every boxer to use it, 24 and at what cost.

SECRETARY LEWIS: Yeah, adoption is clearly, you

know, the first step is getting the stuff. The second step is
 adoption. And I think this really gets to a question, but sort
 of a follow-up question, which is for Doug.

And this relates to, let's say we get to these 4 5 milestones. We have something that's functional. The Apple, and I'm from Washington, the Apple industry says, yeah, it б 7 works in our systems, and we still want to continue selling 8 fruit to Seattle, who has played around with a non-compostable fruit sticker ban because of its commitment to composting. 9 What happens then in the organic space? If you know all this 10 11 pre-consumer food waste will have a compostable fruit sticker 12 on it, does that have implications in terms of its allowance in 13 an organic system?

MR. CURRIER: Yeah, I mean, I think it comes down to our agreed-upon allowance for food waste, and knowing that those are going to be in there, and being okay with it.

SECRETARY LEWIS: Fair enough.

17

DR. MILLNER: Yeah, I would just add, in talking about the commercialization of it, is that Dr. McManus has been working with a commercial company, and they've confirmed to me, too, that they've made a lot of progress, and they do see this as a resolvable problem.

23 SECRETARY LEWIS: That is very encouraging. And I 24 think that's a good frame of reference, Doug, that we need to 25 take to heart, which is that it will be something we need to

1 consider on whether we want to allow it into our organic system
2 or not.

3 MR. CURRIER: Yeah, because I think they're there 4 now, as you're pointing out, and they're ending up in compost. 5 So they might get screened out, they might not. And so food 6 waste in itself is allowed. And so these are just coming along 7 for the ride.

8 SECRETARY LEWIS: All right, well, I think we will 9 wrap it up only 10 minutes late, so that's really great. 10 Again, I think it's always a good time to talk about compost. 11 I want to thank our panelists.

We do have some modest gift bags for you, probably some snacks to get you home safely and nourished. But again, let's just give a round of applause to our panelists, and thank them very much for their coming to the meeting today. And I'll turn it back over to Kyla.

17 CHAIR SMITH: Okay, everybody, we're at break time.
18 We are going to come back at 3:50. Enjoy your break.

19 (Recessed at 3:40 p.m.; to reconvene at 3:52 p.m.) 20 CHAIR SMITH: Okay, welcome back, everybody. We are 21 going to finish our day hearing the rest of the items on the --22 or doing the work of the Crops Subcommittee. So I'm going to 23 turn it over to Logan, and she -- because she is the chair of 24 our Crops Subcommittee.

So Logan, take it away.

25

BOARD MEMBER PETREY: Hi, can everybody hear me okay?
 Great.

I want to thank Mindee and Nate for that compost panel, for the discussion document, for everything that you guys are doing. I know a lot of people are praising you, but we can't stop. So that was a lot of work. It's a complicated issue.

8 Okay, getting on to parts of crops, I want to start 9 off, we're going to have a proposal. Carbon dioxide's actually 10 my material. And then on the agenda, we have a discussion 11 document. We're going to put that at the end to talk about 12 compost more. We're going to go and get the sunsets done, and 13 then just keep on talking about compost, because we love that 14 topic, and we can't get enough.

So do we need to make any kind of motion on that, or just roll with the schedule?

CHAIR SMITH: No motion, just, we're good.

17

BOARD MEMBER PETREY: Okay, so we're going to start off with carbon dioxide.

So just a little brief history, because this thing has a history, even though it's not even on the list yet for crops. It was my first proposal, came on in 2021, and it was petitioned to the Board in late 2020. And I took it on as a proposal, didn't know what I was doing to begin with, but I have learned a lot through this guy. So the history there, it was petitioned at 205.601(a) and (j). So as an algaecide disinfectant, and also as a plant or soil amendment. And through the confusion of that, with me being very new, we passed it, or we got to the fall of 2021, and passed it, or classified it as a synthetic.

And I did not decouple the (a) and (j), and so we kicked it on to the next meeting, and we did get it passed at the listing for (a), because there was sufficient information within the petition that we understood. There was not much information at all for the listing at (j). And so, and then we requested a limited scope TR, which we got in 2023.

12 So going through that, Crops Subcommittee, we've gone 13 through that, and gone through with this proposal. So I'll go 14 over that with you all.

I do kind of want to go back to the petition, just to kind of go through what it was petitioned for, and the listed use. And so going back to it, it says ECO2mix is submitting this petition as a request to allow synthetic carbon dioxide to be used without restrictions to adjust water pH to be used in irrigation and for spray over plant leaks.

And then going to the intended or current use of the substance, it listed -- said carbon dioxide is used in water pH adjustment process. Water pH adjustment is common practice in agriculture. Irrigation water sources are usually alkaline with bicarbonates. This requires some form of pH control to be used in irrigation. Water pH cannot drop below a pH of 5.0
 when carbonic acid is used.

And then going down to, I guess, part four, it would be a list of the crop, a list of the crop, livestock, or handling activities for which the substance will be used. It lists that carbonic acid will be used on almost every crop, especially those that are under drip, micro sprinklers, sprinkler, or pivot irrigation that requires water pH acidification and bicarbonate neutralization.

10 And the last paragraph of that says the water pH 11 adjustment process can be manually controlled as well as 12 automatically controlled.

And I'm just going back to say all that just because in the petition, this is the information that was given. And so as we go in and we're looking at how is it used for, as a soil amendment, I remember calling the petitioner early and just trying to gather some of that information, you know, how is that used?

And I do remember in that conversation saying that because it would be used over the plant leaves or it would be used in the irrigation water, it was assumed that it would be needed as a crop input because it was also going into the soil. So, and then when we requested the limited scope TR for the plant or soil amendment listing, it listed only for indoor production. So if it were listed this, it would be in

1 greenhouse production.

2 But within the proposal, you know, we state that it 3 is a synthetic, it's adverse environmental impacts, this 4 material is a by-product of other processes. It enters the 5 carbon cycle, gas -- CO2 is stable in the atmosphere and absorbs heat causing greenhouse effects. But this is used from б 7 by-products. It's not like we're creating more CO2. A human 8 health exposures to 1 percent can cause some poisoning, but greenhouses that are amended with it have concentrations of 0.1 9 10 percent. So no concerns there.

Alternatives, there are no alternatives. There are some non-synthetic sources, but they are -- the infrastructure is not there for the mass production that's needed for greenhouses. Availability is low. QCS, actually one of our commenters did mention that they have a greenhouse production that they certify that is using it when it is available.

And so going on in the Crops Subcommittee, we have talked about, we have somebody with some experience. I say that it really does make a big difference in the yield. And so it does -- it definitely is used or probably would be used if listed.

Through the written comments, we've received eight written comments, four were in favor and four were against listing this material. Commenters in support of the petition noted that greenhouse producers would greatly benefit from the

addition of CO2. And it may help other producers transition. 1 2 We received no oral comments in opposition and two in 3 support with not a lot of detail in questions answering. We 4 did -- when I did question one commenter said that they 5 probably could get comments over, maybe in the fall from producers actually, if we were to kick this, but currently we б 7 don't have any testimony from any producers right now. 8 KCS, like I said, certifies one greenhouse and they're using non-synthetic when it's available, but that 9 certifier's also had multiple other greenhouses request the use 10 11 of CO2, which they are not able to use or they're not sourcing 12 the non-synthetic because it's not on their materials list. And with that being said, I want to open it up to the 13 Board for questions and discussions. 14 15 I'm realizing that we didn't plan this CHAIR SMITH: 16 part, Logan, do you want me -- I should probably manage the 17 question queue because you can't see anybody. 18 Okay, I will manage the question queue. Go ahead, Nate. 19 20 BOARD MEMBER POWELL-PALM: My question is kind of for So if Jerry's going to talk, I'll wait. 21 Jerry. 22 BOARD MEMBER D'AMORE: Yeah, we've had good 23 discussions on this and it's morphed a bit. There's a -- when you say greenhouses, you are confronting a longstanding issue 24 of how do they fit into any of all of this and which is -- it's 25

not to be, it's not important for this conversation in my mind. 1 2 As a greenhouse grower of 25 years, my farm, my 3 operation, my cost, the benefit of CO2 was measurable in double 4 I don't want to go on record for what it was because digits. 5 that could be challenged, but I'll stick with double digits on a calendar year. Most of the benefit was accrued in the winter б 7 time when the house was buttoned up tight. But had I, this was 8 long enough ago where the organic seal wasn't even available, but what occurred is what occurred. 9 Thank you. 10 11 Nate, follow up? CHAIR SMITH: 12 BOARD MEMBER POWELL-PALM: Yeah, so Jerry, when we're 13 talking about essentiality and kind of what this means to greenhouse growers, you're saying it's at least 10 percent. 14 15 And what is that unit that we're talking about? Improvement of what? 16 17 BOARD MEMBER D'AMORE: Yield per square foot. And 18 which for me was always just heads of lettuce, but the common denominator was yields per square foot. If you want more, I'll 19 continue for one second. 20 The leaf itself was thicker. The color of the leaf 21 was also darker than what I would have achieved otherwise at 22 23 that time of year. So it was another measurable that didn't even apply to my P&L, which was the weight of the head of 24 lettuce. So it's not even factored into the comments. 25

BOARD MEMBER POWELL-PALM: Can I have a follow up question to Logan?

3 So Logan, could you summarize for us what the 4 concerns are as you've perceived them in public comments or 5 written, oral, from your research?

б BOARD MEMBER PETREY: Sure. And so the -- I guess What all could it be used for? 7 kind of the unknown. And so, 8 you know, where all would it be used, because there wasn't any 9 use in the petition, you say it would be used in this manner under that. And then for the -- for public comments, most were 10 11 we support the Crops Subcommittee, you know, decision. And so 12 there wasn't much detail in that as far as what would be the 13 fear.

Because it is a relatively benign product and it is a 14 byproduct. And we were -- honestly, the Board, you know, or 15 16 the subcommittee, we were kind of moving along, kind of expecting to possibly, you know, vote to pass. And then when 17 18 you just didn't get much traction from producers coming on and, you know, stating that there was a great need and then going 19 through the petition again. And it really just dials into that 20 21 it was needed for the water adjustment. It's lost steam. 22 BOARD MEMBER POWELL-PALM: Thank you. 23 BOARD MEMBER PETREY: I have a question for Jerry on

24 that. When you mentioned the yield growth and definitely in 25 the cold, and the reason for that being just explain to the

Board is because when the CO2 -- usually to fix the CO2 issues or the drop in level that you would open up and vent. And that's much -- that it's not good to do in a greenhouse when it's really cold outside because the point of the greenhouse is to hold that heat in so you can have production.

And so, Jerry, curious, when it was warm outside, you know, did you have these issues? Did you see the yield difference as much? I mean, obviously not as much, but did you still use it in that time or did you just vent?

BOARD MEMBER D'AMORE: I vented, but let me give you 10 11 one statistic that'll help you evaluate the question you just 12 In the dead of winter, I would have a turn on my crop asked. In the middle of the summer, that turn would be 19 13 of 49 days. So along that -- excuse me, along that same curve is 14 days. when the house would be buttoned up or not buttoned up. 15 The 16 less solar influence, the less solar the crop was.

CHAIR SMITH: Nate has a question

17

18 SECRETARY LEWIS: Actually, I have more of a comment about this substance, for me, I focus squarely on the necessity 19 component of the national list requirements. And I think we're 20 21 talking about the issue that informs for me, you know, why I voted no in the subcommittee to add this national list was just 22 23 around necessity and that it appears as though growers are making the choice to use controlled atmosphere production. 24 25 And along with that comes some challenges. And so

this seems like a solution to a challenge that can be 1 2 accomplished simply by venting. It's not like there's a 3 scarcity of carbon dioxide. In fact, there's plenty and actually too much carbon dioxide all around us. 4 And I 5 acknowledge that that has impacts on temperature and production б and all that. But there's plenty of carbon dioxide around 7 these greenhouses.

8 And so their production choices for me weren't a 9 compelling enough reason to justify the necessity of the 10 substance in an organic production system.

BOARD MEMBER D'AMORE: May I?

12 CHAIR SMITH: Go ahead, Jerry.

BOARD MEMBER D'AMORE: Thanks. I don't -- well, first of all, the single biggest cost to growing in a greenhouse, to my experience, anywhere in the world just about, is heating the greenhouse.

And if your choice is to open up the vents and turn on the fans in December, what you have done to your P&L, regardless of the growing system being used, is dramatic now. And you and I have already had the conversation on the term CEA, Controlled Environment Agriculture. That term says nothing to how you're growing it.

It's a greenhouse. So -- but I couldn't -- I can't go much further because I was using hydroponic systems, which then I would have to accept your argument. So it's kind of a 1 funny thing that we're in, but the idea, I think it's the 2 growing system has not even been addressed.

I think the greenhouse has been addressed and there's -- I don't think there's much debate about whether or not you're allowed to have organic production from a greenhouse if you adhere to systems that are approved. I would have a greater argument with this about that subject, but I would just leave it there.

9

CHAIR SMITH: Franklin.

BOARD MEMBER OUARCOO: Yeah. Given the fact that CO2 10 11 is one of the most important greenhouse gases, if we are 12 harvesting as a by-product and using it in a greenhouse, because the science is clear, what CO2 does to production is 13 clear. But if folks are going to produce CO2 just so they 14 could do this, that would be a little bit of a problem 15 16 considering the fact that even in the greenhouse, just 60 17 percent of it is good. It still was 40 percent out.

So this is already a major greenhouse gas. So yes, it's important for growing the crop, but what's going to be -are people going to go into trying to make CO2 just for this is my question.

BOARD MEMBER D'AMORE: If I may again, it's all interesting and it's dawning on me that we're no longer in subcommittee here and I'm thinking, why are people saying that again? Well, because we're not in subcommittee, we're in a 1 full Board now. My rejoinder to you, Franklin, is that banned 2 or not -- let me back up, the incident of CO2 was a by-product 3 of heating the greenhouse.

And my option became, vent that to the outside or 4 5 vent it to the greenhouse. But again, I don't know that this is a conversation that's highly relevant to this use. For me, б 7 it was at a time where none of these questions came up. Ι 8 needed to heat the greenhouse. I had a decision to make. 9 Those of you who know me know that I'm not the scientist, the biologist, the chemist, but reading, I knew that CO2, as we've 10 11 discussed a number of times, is important.

12 So I decided to vent into the greenhouse. So the 13 only question I'll answer definitively is that the effects were 14 dramatic.

BOARD MEMBER PETREY: So Franklin, on that, just to say, there's no CO2 that's going to be produced for this use. It would all be used as by-product. So it's not adding to the CO2 issue.

BOARD MEMBER QUARCOO: Okay.

20 CHAIR SMITH: Go ahead, Brian.

BOARD MEMBER CALDWELL: Thanks, Kyla. Thanks, Logan.
 Thanks, Jerry.

I'm very conflicted about this. I really appreciate
Nate Lewis's point about essentiality and the fact that
basically our canvassing of stakeholders was split four to

1 four. I'm wondering if this needs another look and an attempt 2 to get more greenhouse growers themselves to respond to the 3 guestion.

4 So my sort of gut tendency now would be to send it 5 back to the committee for another round, but I don't know how 6 everybody else feels about that.

BOARD MEMBER POWELL-PALM: I support that.
CHAIR SMITH: Go ahead, Jerry.

9 BOARD MEMBER D'AMORE: Again, it's a bit of an 10 awkward position to be a champion. So let me not be a champion 11 of CO2 in greenhouses because I'll save my powder for something 12 else.

But the testimonial we just heard also from Logan makes me ask the question out loud to this entire Board, is why not? By-product, helpful, no additional harm to the environment. So again, I would just ask that one time. Why not?

BOARD MEMBER PETREY: You can just add to the list with that. With that being it, it's because I've asked that same question and it's like, I'm just continuously, are we just continuously adding materials? But if it is a good toolbox for that, then that is understandable.

And so I agree with Brian, I think because the commoners were split and also because hoping to get more producers on the greenhouses that do need this product or that

1 would make a big difference. I would support that move. 2 BOARD MEMBER POWELL-PALM: Kyla, could I motion to 3 send it back? 4 CHAIR SMITH: No, not yet. I got Mindee and then 5 Carolyn. BOARD MEMBER JEFFERY: I'm not convinced of necessity б 7 and I'm concerned about the container thing. And I think if we 8 voted on this and we passed it, I'm not sure we made a good case for it. And so I think if we are confused and 9 uncomfortable, we go back to subcommittee in the interest of 10 11 being good to our petitioners and our farmers. 12 And so for me, I'm uncomfortable. I couldn't say And I think process-wise, I would be uncomfortable if we 13 yes. said yes. So I'm super happy for Nate to --14 15 CHAIR SMITH: Go ahead, Carolyn. 16 BOARD MEMBER DIMITRI: I'm not saying send it back to 17 subcommittee or don't send it back to subcommittee, but I do 18 think it's telling that not enough farmers answered. And so I think that that also is an answer that they didn't think it was 19 20 worth responding to your call for questions. CHAIR SMITH: Amy, I saw your hand go up and then 21 22 down. Do you have a question? 23 VICE CHAIR BRUCH: Yeah. I really appreciate Logan's There hasn't been a lot of information on this 24 work on this. particular aspect of the listing, which this -- as Logan 25

1 mentioned, this substance has been around for quite a while.
2 We reviewed one part a couple of years ago, and here we are
3 evaluating the other.

And like Carolyn mentioned, there just hasn't been a lot of expressed need for this, and even without reach to the initial petitioner, there wasn't a strong case for use in this specific way in which we're deliberating to be listed, it was kind of an afterthought.

9 Logan, can you repeat again what you heard from the 10 petitioner for the reason for the secondary request for the 11 listing?

BOARD MEMBER PETREY: And because of its use in irrigation water or sprayed on leaves to adjust the water pH, the assumption was we needed to be listed there as well to protect it, because it would be, eventually get in the soil through the irrigation water. Through a drill pond, you know, doesn't it?

VICE CHAIR BRUCH: Yeah, I mean, we spent a lot of time trying to find data points on the need for this and found very few. And so that was originally my take is essentiality, the necessity of the substance. It just didn't seem like we heard enough information there.

23CHAIR SMITH: I have Allison and then Jerry and then24Nate.

25

BOARD MEMBER JOHNSON: I've shared the Franklin's

1 concern about new CO2 and appreciate the answer, Logan, that to 2 me answers some of the comments that we got about this being a 3 fossil fuel based material or making the climate problem worse. But I do have a hard time making a decision on this without 4 5 doing it in the context of container standards. It just feels kind of out on its own. So I think taking a little bit more б 7 time to look at it and in hopes that maybe we start to move on 8 container standards too would be really helpful.

9 BOARD MEMBER PETREY: Yeah. If we voted down here, 10 would that jeopardize and for container standards, I'm sorry, 11 would that --

12 CHAIR SMITH: No, go ahead, Logan. You finish your 13 thought.

BOARD MEMBER PETREY: So if we voted down -- if we were to vote it down and then we were to work on container standards in the future, would that jeopardize this being used in that or is it can't be petitioned again?

18 CHAIR SMITH: Yeah, unless there was new information 19 in the re-petition, then it would not be allowed.

BOARD MEMBER D'AMORE: So Logan, I need a refresher.
The petitioner is the container grower?

BOARD MEMBER PETREY: The petitioner is the manufacturer of the CO2.

24BOARD MEMBER D'AMORE: I'm sorry? Okay.25So I'm going to ask -- I'm going to say to the team

here that out of solidarity and having already asked the question, you know, why not, I'm going to say, why not take it back? But I will vote, not no, I will abstain and because I think that we are blending two things that are not -- that should not be blended. So thank you.

> CHAIR SMITH: Nate, I think you're next. BOARD MEMBER POWELL-PALM: Thank you.

б

7

8 A group that we didn't hear from, but we also kind of 9 never hear from, are not container growers, but they're 10 transplant growers. And I think that's a whole different 11 bucket of just consideration that transplant industry are how 12 are we serving them? How do we get them to show up? I think 13 there's a big outreach question. Is it Carolyn's point of, is 14 it telling that we didn't hear from them?

I don't think we've ever really heard from that group. And I have like four or five operations across the country that I have in mind that have no, I don't know if they even know about the process. So I'd be curious to see how much outreach we could do to really just decide from those folks who might need it or have the most stake over the next six months.

If they say no, then we've got our answer, but it seems like we have a little more work to do to just find that data.

CHAIR SMITH: I have a comment. So one of the publiccommenters did address, Allison, your concern. And again,

whether or not this is good precedent or not, but there's stuff that we put on the national list all the time before we have standards for them.

So again, we just talked about one earlier today about Fibromyte. So again, whether or not that's good precedent, it's debatable.

7 The other thing, I'm feeling conflicted about this 8 material. I can hear both sides of the argument. I am 9 reflecting here that CO2 is allowed in process products. It 10 also is in the air we breathe. And yet we're concerned about 11 allowing it for crop production.

12 So anyway, I'm just, and I'm fine to take it back to 13 having a little bit more conversation on it, if that makes us 14 feel more comfortable. I see Franklin.

BOARD MEMBER QUARCOO: My main question was if there was going to be new production in order to -- so is there going to be something somewhere in annotations so that you cannot go into CO2 production specifically for this purpose. I'm just saying, there's nothing wrong with using what we have to solve a problem that we have, but there's something wrong in creating more of it where that's a greenhouse gas.

CHAIR SMITH: Yeah, I would just say that from my understanding as it was petitioned, it wasn't petitioned with any particular annotation. However, that is something that could be discussed in subcommittee to restrict where it comes

from and/or where it's used. Nate? 1 2 BOARD MEMBER POWELL-PALM: I would like to make a 3 motion to send it back to subcommittee. 4 CHAIR SMITH: I have a motion from Nate and a second 5 from Brian. So the motion is to send it back to subcommittee. Just a reminder that this is a simple majority vote and we will 6 7 start, are you ready, Mr. Secretary? 8 We'll start the vote with Nate Powell-Palm. 9 BOARD MEMBER POWELL-PALM: Yes, send it back. BOARD MEMBER NANDWANI: 10 Yes. 11 BOARD MEMBER QUARCOO: Yes. 12 SECRETARY LEWIS: Yes. 13 BOARD MEMBER D'AMORE: Abstain. BOARD MEMBER DIMITRI: 14 Yes. 15 BOARD MEMBER TURNER: Yes. 16 BOARD MEMBER JEFFERY: Yes. 17 BOARD MEMBER JOHNSON: Yes. 18 BOARD MEMBER CALDWELL: Yes. Sorry, we didn't hear your 19 CHAIR SMITH: Logan. 20 vote, Logan, I'm sorry. 21 BOARD MEMBER PETREY: Yes. 22 CHAIR SMITH: Amy. 23 VICE CHAIR BRUCH: Yes. CHAIR SMITH: Kim. 24 25 BOARD MEMBER HUSEMAN: Yes.

CHAIR SMITH: The chair votes yes.

1

2 SECRETARY LEWIS: That is 13 yes, one absent, one 3 abstained. The motion carries to send it back to subcommittee. 4

CHAIR SMITH: Logan, back to you.

5 BOARD MEMBER PETREY: Thank you. Okay, moving on to something easier. Going to the sunsets. Wood, can you start 6 7 us off with hydrogen peroxide?

8 BOARD MEMBER TURNER: Happy to. We've got hydrogen 9 peroxide at 601(a)(4) and 601(i)(5) as an algaecide disinfectant and sanitizer, including irrigation systems, 10 11 cleaning systems, and as a plant disease control.

12 And I'm going to just keep this very simple and draft 13 off of a far smarter person than me. Franklin did a great job on this this morning in livestock. And you all heard him 14 present on hydrogen peroxide it's a pretty straightforward. 15

16 We've heard from, we get consistently across, over 17 time, this material and this use, these uses has gotten support 18 from the community. And that's no different this time. We're hearing from a wide range of the community that this is 19 something that's important and that appears in many OSPs and 20 21 there's general support across the community.

22 The notion that it's a safe, useful sanitizer is an 23 important consideration as well. We continue to talk about the sanitizer toolkit, no pathway to understand how we're thinking 24 about that broadly, but I will continue to say that probably 25

1 until I leave the Board. I -- this is not a controversial 2 material.

Welcome any comments.

3

4 CHAIR SMITH: Any questions for Wood? I don't see5 any. Logan, next up.

BOARD MEMBER PETREY: Amy, can you lay us off withsoaps and ammonium, please?

8 VICE CHAIR BRUCH: Sure, ammonium soaps have been 9 approved by the NOP for various crop uses. There's actually 10 four different uses for ammonium soaps as synthetic substances 11 to act as albicides, demonstrators, herbicides, insecticides, 12 and animal repellents. And that's the one we are going to 13 focus in on today.

And ammonium soaps are used as animal repellents to protect organically produced crops from unwanted browsing, primarily from deer and rabbits. International acceptance, Canada -- the Canadian standard does allow for ammonium soaps for use as large animal repellents. The other standards don't list ammonium soaps or do not allow for this particular use of ammonium soaps as a repellent but as a disinfectant.

The EPA has given ammonium soaps the lowest possible toxicity classification. And if it is to cause a problem, it's primarily irritation-based. And the environment studies conducted by EPA estimate that ammonium soaps will undergo rapid environmental degradation, yielding an environmental

1 half-life of less than one day, so pretty quick.

The one thing to highlight, though, is ammonium soaps have been classified as highly toxic to crustaceans by the EPA. In the discussion, we talked about there are other means of pest prevention outside of soaps, including population control, alteration of habitat, physical barriers with dispensing. Primarily, there are also natural substances out there as well, such as coyote urine, human hair, and black pepper oil.

We did ask the community a question if there is still 9 a need for soaps for this function, ammonium soaps for this 10 11 function, and there were 10 yeses. And the growers reported 12 that they do use this substance in tandem with physical and mechanical controls, so multiple tools to solve a problem 13 there. One additional comment from a certifier said just over 14 the last few years, the listing on OSPs has gone up 15 16 considerably, so there's more people listing ammonium soaps on 17 their OSP.

18 There was one comment against it, this go-round, the last go-round, there was no comments against it, but one 19 comment this time stated concerns with the drift impact, 20 because this isn't supposed to come in contact with soil. 21 And 22 there were a couple groups taking non-positions, but overall, 23 this is a pretty non-controversial substance, and the farmers did express the need to maintain this on the list. 24 Questions for Amy? 25

BOARD MEMBER PETREY: I don't see any, Amy. Next up,
 Logan. Thank you, Brian.

Can you take us to horticultural oils, please?
BOARD MEMBER CALDWELL: Yeah, thanks, Logan.
Horticultural oils are listed in two places, at 205.601,
basically as an insecticide and miticide, and as a disease
control product. And horticultural oils are also called
mineral oils, or summer oils, or narrow range oils.

9 They are petroleum distillates, highly refined, clearly synthetic, and of low toxicity to terrestrial 10 11 organisms, but they are toxic to aquatic organisms. And 12 they're really commonly used by organic vegetable and fruit The EPA has made 13 growers for insect mite and disease control. 14 the horticultural oils class them as exempt from residue tolerance, meaning that they really think they're of very low 15 16 toxicity concern. And I think all the data really supports 17 that.

And the only issue that I see is that there are oils that can perform a similar function that are derived from vegetables, like soy oil, canola oil, corn oil, or neem oil, that are available and in use. And that would be sort of a natural alternative to a synthetic petroleum distillate.

However, we asked basically whether there were alternatives from stakeholders. And basically, the responses that we got said that they were either more phytotoxic or not effective, the other forms. And I would point out that
 probably, almost undoubtedly, the plant-derived materials are
 probably more quickly biodegradable than the mineral oils.

But anyways, I think where we're at here is we have 4 5 this in our research priorities that we are looking for more б research trials where organic-approved materials are compared. And this would be a good one, a good group to work with to try 7 to ferret out which of these plant-derived oils, or even fish 8 oils, might be useful for some of these purposes. So with that 9 in mind, that we need more research, I think we can go ahead 10 11 and I can say that the products are allowed by Canada, the EEC, 12 Codex, IFOAM, Japan, worldwide.

These horticulture oils are really probably one of the most common pest control products that are used by organic farmers. And to summarize the written comments, 15 were in favor of relisting. One said that they should be delisted and I'm talking for both uses really. The comments were similar for both uses.

One said they should be delisted unless an annotation was provided that they would be for only essential uses and with concerns about worker safety. And so it's very strongly in favor of relisting.

One grower actually responded that they weren't necessary, which really surprised me. But, you know, there are always outliers. So that -- and there were hundreds and

hundreds of users that the certifiers listed in their -- where 1 2 they count how many people are using these products. 3 So that kind of gives the overall view of 4 horticultural oils. Very strong support within the producer 5 community to keep them on. And my own very small, you know, minor caveat as well, maybe we should be also investigating б 7 some of the plant-derived similar materials to see if they're effective and safe on the plants and the people. 8 9 So, ready for questions. CHAIR SMITH: Questions for Brian. I don't see any. 10 11 Back to you, Logan. 12 BOARD MEMBER PETREY: Great, okay. Franklin, will you -- let's see, where are we on 13 pheromones, please? 14 15 BOARD MEMBER QUARCOO: All right. So, pheromones. 16 So pheromones, they are synthetic substances. They are listed 17 as 205.601. Synthetic substances allowed in crop production 18 for insect pest management. They are basically volatile chemicals that organisms, especially insects, use to 19 communicate between themselves. 20 21 And all kinds of communication, they communicate 22 danger, they communicate finding mating partners, they 23 communicate where to find food, where to relocate their colonies. So they communicate in various ways using 24 25 So pest management, we just exploit this pheromones.

understanding of how they communicate to manage them through
 behavioral manipulation.

So, different ways of doing that. Sometimes it's a passive trap. So we have the pheromone somewhere and then the insect is drawn to it. So even if it has a kill strip or a pesticide in there, it doesn't get out of the passive trap. So it just volatilizes. Then there are other methods where it's an active movement involving spraying, using all kinds of stuff.

So those are some of the differences between how it 10 11 is deployed. How is it synthesized? It's just a reaction 12 between an acid and then an alcohol, whether it's a straight chain alcohol or one with a benzine ring. It's that kind of 13 reaction. It's an ester. And international acceptance, it is 14 allowed in -- all sources are allowed for pest control in 15 16 Canada, whether it's pheromone traps or passive dispensers in 17 Canada.

18 It's allowed in the European Union. CODEX allows it. 19 Allowed in traps and dispensers only in IFOAM. Allowed in just 20 for organic production in Japan. So there are different ways. 21 Like I said, there's passive, there's active, there are all 22 kind of retrievable polymeric dispensers. There are various 23 ways it's dispensable. I don't want to go into that. 24 There are a few health issues, health and

25 environmental issues: asthma, cancer. But the fact is, you

1 don't get in contact with the material because the dispenser 2 keeps that material from coming into contact with folks. So 3 those are the things.

There are various ways it's deployed, but like I 4 5 said, and based on the discussions, there's widespread use and б all the comments we've received are in support of releasing 7 The one thing I want to say, give me a second. pheromones. It is important to know that when the regulations allow the use of 8 LIS-3, they do not allow the use of LIS-3, which is inerts with 9 unknown toxicity with active dispensers. 10

So inerts that are -- because normally this thing is formulated together with some inerts so that some type of slow release materials and stuff. But if you are going to use an active trap where actually active pheromone, where the pheromone is actually moving and being sprayed, you cannot use an inert that is LIS-3 in it. That's about all I have.

17 Any questions?

18 CHAIR SMITH: I don't, oh, wait, one from Wood. BOARD MEMBER TURNER: Did you say anything about 19 public comment? Did you summarize? Did I miss that, Franklin? 20 21 BOARD MEMBER QUARCOO: Sir? 22 BOARD MEMBER TURNER: The public comment, did you say 23 anything about it? BOARD MEMBER QUARCOO: Yes, so I said the general 24 25 comments have been to accept it, I didn't see any.

BOARD MEMBER TURNER: That's what I thought, yeah.
 CHAIR SMITH: Okay. I don't see any other questions
 or comments back to you, Logan.

BOARD MEMBER PETREY: Back to Brian with ferricphosphate.

6 BOARD MEMBER CALDWELL: All right, thanks, Logan. 7 Ferric phosphate is a commonly used material. It is for 8 controlling slugs and snails. It is spread on the soil surface 9 for this. And the active ingredient, ferric phosphate, iron 10 phosphate, is quite benign, has low toxicity, and is quite 11 ubiquitous. Again, the iron ions and the phosphate ions are 12 very ubiquitous in nature.

However, in these products, only about 1 percent --13 well, in the products that are available in the U.S., 1 percent 14 of the product is the active ingredient, 99 percent are inerts. 15 16 And once again, the whole inert issue comes up. And in this 17 case, it comes up more strongly even than usual, because in the 18 past, when this material has been reviewed, there have been concerns that EDTA, which you might remember as a chelating 19 agent that came up before in one of the livestock products that 20 21 I reviewed, as not being allowed in Canada with that particular 22 product.

But EDTA -- there's evidence from research that when iron phosphate and EDTA are combined, it basically increases the toxicity to earthworms by a factor of about 100. So it's

1 way, way more toxic to earthworms, and they are a proxy for
2 slow organisms with this chelating agent. And the other part
3 of the inerts are like these, you kind of spread these granules
4 out and they're kind of like little pieces of candy.

5 And the sugar and that kind of thing attracts the 6 slugs, which then are going to ingest the active ingredient and 7 that chelating agent. We have a TR that's pending, which tries 8 to see if there's more new research on this, because it was 9 controversial in the last couple of reviews. It's pending, we 10 haven't gotten that yet.

11 The manufacturer claims that ferric phosphate is 12 effective without the chelating agent. So a potential 13 direction that we could go would be to renew this, to relist this material, and then -- with an annotation, if we find that 14 15 the new TR says that the chelating agent plus the active ingredient is much more toxic like that, we could have an 16 17 annotation saying, okay, well, if it's effective without the 18 chelating agent, let's not allow the chelating agent.

So that might be a direction we can go forward. 19 It's allowed in Canada, the EC codex, IFOAM in Japan. Worldwide, 20 21 the manufacturer's in Germany. In terms of written comments, 22 there are hundreds of users listed by the certifiers and 11 23 comments in favor of relisting and one in favor of delisting. CHAIR SMITH: Questions for Brian? I see one from 24 25 Amy. Go ahead, Amy.

VICE CHAIR BRUCH: Brian, I really appreciate your thoroughness in diving down into the issues that matter here. You mentioned about the manufacturer didn't necessarily say that the chelating agent wasn't important for the effectiveness. Is that correct?

BOARD MEMBER CALDWELL: Right.

б

7 VICE CHAIR BRUCH: What about for the manufacturing 8 process? Is it necessary? Or as you said, if you just made an 9 annotation, they don't necessarily need it. What's the reason 10 for it in the first place? Do you know?

11 BOARD MEMBER CALDWELL: That's a really great 12 question, Amy. I looked through a lot of the petitioning 13 materials and what happened was when the safety basically for soil organisms came up in the last review, the manufacturer did 14 15 send another batch of documents. I didn't see anything in 16 there saying that using the chelating agent was essential in 17 the manufacturing process. I didn't see that, but that's a 18 question. And maybe they will answer that.

The other reason for a chelating agent like that would be just to, I would assume, hold the iron and phosphorus in those states through rain events and that kind of thing, just to kind of keep them in ionized form and then so they're still available to the slugs and snails.

24 But I don't know that that's exactly the reason. So 25 it's a great question.

1 CHAIR SMITH: I don't see any other questions. Back 2 to you, Logan. 3 BOARD MEMBER PETREY: Great, thank you, Brian. Thank 4 you, Amy, for that. 5 Next we have Jerry with potassium bicarbonate. BOARD MEMBER D'AMORE: All right, I want to talk 6 7 about hydroponic systems if you don't mind. 8 Good afternoon, I've got potassium bicarbonate. It's 205.601(i) as a plant disease control. This substance is 9 informed by a 1999-TAP and a 2015-TR. The '99 TAP review 10

11 concluded with, "the data available on this material points to 12 its being safe and benign to the environment when used at the 13 recommended concentrations."

Further, there were two references to human health found on page two, no carcinogenicity, no effects of overexposure were documented. The technical report that came in 2015 was, in fact, a limited scope TR focused primarily on essentiality and availability. It did also give strong support regarding potassium bicarbonate's effectiveness for disease control.

So in essence, what we have is a 24-year-old TAP serving as the foundational document for a nine-year-old limited scope TR. But to be fair, both the TAP and the TR were nicely done. And I would also say, given the Board's increased and current view of our TR process, that it would be a safe bet

1 the potassium bicarbonate will have a full TR review during the 2 next cycle, would be my bet.

To the international side, it's fully on Board with our international partners. Canada allowed, European Union allowed for production and conservation of organic grape vines. So anyway, allowed right through Codex, International Federation, IFOAM, and Japan.

8 During the 2015 review process, stakeholders were 9 questioned regarding alternatives to potassium bicarbonate. 10 The organic producers responded that while alternatives were 11 indeed available, and it responded that while they were 12 available, that with their practices, potassium bicarbonate 13 remains essential for their specific production practices.

For the current period, fast-forwarding to our past, just recently completed comment period, there were about 22 written oral comments, the vast majority of which were strongly in favor of relisting, with one questioning the classification and one responder stating no comment.

In review, it appears as though potassium bicarbonate is heads and shoulders above alternatives, particularly in pottery mildew prevention. Thank you.

22 CHAIR SMITH: Questions for Jerry? I don't see any.23 Back to you, Logan.

24 BOARD MEMBER PETREY: Thanks, Jerry. If you need an 25 event planner, let me know. I'm just kidding. I couldn't help with the greenhouse carbon dioxide deal. Okay. Frankling with
 magnesium sulfate.

BOARD MEMBER QUARCOO: All right. Magnesium sulfate, listed as 205.601(j). Synthetic substances allowed for use in crop production as a plan of soil amendment. The last year was in 2011. It has a variety of uses, but we are focusing on its use as a plant and soil amendment. It has a natural occurrence, and we have a synthetic version of it.

9 The things it does, it helps seeds to germinate. It 10 increases the production of chlorophyll and aids in the 11 production of flowers. It's a good product for plant growth.

12 It can be obtained naturally from natural sources. 13 We have what we call the epsomite and the kieserite, which they 14 are hydrated forms. One has one molecule of water, and the 15 other has seven, but those are the natural forms that we have.

International acceptance in Canada is allowed when soil and plant deficiencies are documented. By visual symptoms of testing the soil or the plant tissue, it has to be documented.

European economic community, it has to be of natural origin for it to be allowed. CODEX is allowed for use in soil fertilizing and conditioning. IFOAM is allowed regardless of soil deficiency documentation. Japan is allowed regardless of soil deficiency documentation. There are a number of human health issues that are listed. The quantities in which

1 magnesium sulfate is used in agricultural systems is not likely 2 to cause those things to happen.

What else? Well, the fact that it exists in the atmosphere in a particulate state makes it less likely for it to be released and go to places that it's not. It is also not held strongly to river sediments. So this is not something that is going to persist and cause a lot of problems.

8 The discussion in 2019, the NOSB review, the public 9 comment expressed continuous support for the material. It was 10 said to be very important for high tunnels and greenhouse 11 production and fruit tree production.

Some folks also said that dolomite, which is a natural version, is not a suitable substitute in all cases as it cannot be used when the soil pH is high. So magnesium sulfate allows you to add sulfur without increasing the pH. So that's one of the things.

One commenter also noted that the use of magnesium
sulfate should not take the place of soil building practices.
Current comments are in support of releasing this material.
That's about all I have.

21 CHAIR SMITH: I see a question from Jerry.
22 BOARD MEMBER D'AMORE: Franklin, did you get any
23 direct responses from the question of practices or methods?
24 Anything new on the horizon asked of the stakeholders?
25 BOARD MEMBER QUARCOO: No.

1 BOARD MEMBER D'AMORE: No? Okay. Thanks. 2 CHAIR SMITH: I have a question from Brian. 3 Thanks, Franklin. I reviewed BOARD MEMBER CALDWELL: 4 magnesium sulfate as a livestock material. I'm just wondering 5 if we -- as we move forward, maybe we should both ask in our write-ups for the fall meeting whether there are natural б sources of this that could be used for these purposes or 7 8 whether there's commercial availability of naturally derived 9 magnesium sulfate. BOARD MEMBER QUARCOO: Yeah. Like the dolomite that 10 11 I mentioned is a natural source. The problem with that is that 12 it's going to raise the soil pH. If the pH is already high, that's going to be your 13 source of whether it's calcium or magnesium because dolomite 14 has a combination of the calcium, magnesium, carbonate complex. 15 16 And so that's going to be a problem if your pH is already high 17 and that's going to be your source of either calcium or 18 magnesium. CHAIR SMITH: I see Amy and then Allison. 19 VICE CHAIR BRUCH: Franklin, thanks for your review 20 I really appreciate it. I was just going to echo the 21 here. 22 importance of this substance for farmers to have this in their 23 toolbox. You mentioned that it's important in chlorophyll. 24 Ι was going to say it does help for nitrogen utilization. 25 So

1 when we look to be more efficient with our soils, we need them 2 balanced so we don't need to put on as much fertility such as 3 manure, compost, et cetera.

So magnesium is a core component. When you do have too much magnesium in your soil, it makes for tight pores and it sticks to your boots. So you can know if you have too high of magnesium.

8 In Logan's area, you definitely don't have enough 9 magnesium in your soils or that's what we learned when we 10 farmed in Florida. A lot of calcium, not as much magnesium. 11 But just to plug that this is an important element. If we 12 could find natural sources, that's really critical. But just 13 in general, farmers need to have this. Thank you.

CHAIR SMITH: Allison, please go ahead.

14

BOARD MEMBER JOHNSON: I'm glad you brought up the cross between livestock in here because we also have this on handling tomorrow as a non-synthetic allowed. So there is some interesting crossover and we should maybe talk about that a little bit more tomorrow.

20But, yeah, we should line them all up in some way.21CHAIR SMITH: Okay. I think we can go to the next22one, Logan.

BOARD MEMBER PETREY: Great. And just to mention on what Amy was saying, we also are low on the sulfur too. So, yeah, important part. Okay. Next, Amy. It's actually yours with hydrogen
 chloride.

3 VICE CHAIR BRUCH: All right. Thank you, Logan. One Pull up my notes. All right. And we did request, and 4 second. 5 I believe it should be posted, a limited scope TR for this substance. And that was mainly looking at alternatives for б 7 hydrogen chloride and alternatives actually for cottonseed de-8 linting because that is the use for hydrogen chloride is to delint cottonseed, which is essential for mechanical planting. 9

When we look internationally, and I wanted to say 10 11 thank you to Heather. This was something that she worked on a 12 lot for several substances, but just the international acceptance criteria, she reviewed the different standards out 13 there, and particularly for this substance, international 14 acceptance, this substance is not explicitly mentioned in any 15 of the other standards. So I really appreciate that 16 17 information.

18 Heather, when we look for human health and environmental issues related to hydrochloric acid, it's not 19 considered a carcinogenic substance to humans. A major HCL 20 21 effect is local irritation. In the environment, soil and sand 22 will absorb hydrochloric acid. These are recommended practices 23 for cleaning up hydrochloric acid spills. The discussion -this was petitioned in 2002 to be added to the national list 24 and was added in 2004. 25

All the reviews have really been supportive of 1 2 relisting because hydrochloric acid was deemed the only 3 available solution for organic farmers needing to de-lint 4 cottonseed. A good portion of the conversation and prior 5 conversations and reviews have been looking at natural alternatives. The TR provided insight into alternative б practices that could be used to de-lint cotton outside of 7 8 chemical means. And that really is circulating around mechanical de-linting. They also pointed to flaming or 9 breeding fuzzless seed. But those -- fuzzless seed definitely 10 11 is not an option because it does involve chemical mutagenesis.

The USDA Cotton Research Group in Texas has successfully built a commercial scale mechanical de-linter. And that was a topic of conversation during the last review. We didn't necessarily find too much more information out about the progress of that mechanical de-linter outside of just the comment that there hasn't been an industrial partner ready to manufacture it.

And the key challenge with that is the small size of the U.S. organic production market. It's just there's not an economic incentive for companies to develop organic specific technologies just due to the market size.

Going to public comments, we did ask one question about recent advances in alternative practices. What we found out just in general comments is that three commenters supported relisting. One certifier comment mentioned that zero producers are using this but should not be removed from the listing just because -- let's see, shouldn't be removed from the listing because it is crucial for certified organic cotton seed. There was one commenter that stated about this should be added to research priorities to include cotton de-linting alternatives.

A couple of commenters, and this includes the Farmer Cooperative and Trade Group that were very instrumental in petitioning for this substance 20 years ago. They mentioned that they recently became aware of organic cotton farmers planting seed that had been de-linted with sulfuric acid. And that isn't on the national list.

So they dove into this further and farmers pointed to a recent NOP, it was NOP 5029-1 issued in 2018 that stated, we have clarified that substances used during the production of non-organic seed or non-organic planting stock do not require review. This includes substances that may be used in postharvest handling and cleaning of non-organic seed and planting stock that do not remain on the seed when it's planted.

20 So based on the above, the understanding is that 21 since none of the cotton planting has seed that's -- none of 22 the cotton planting seed being treated with HCL is certified 23 organic, de-listing is not required.

24 So essentially we've kind of come full circle. This 25 was requested for use for organic seed, but since there is not 1 organic seed available, the original petitioner said, you know, 2 we really probably don't need this. It's not essential for 3 organic cotton production.

However, the listing would be critical if there was organic cotton seed available. But the likelihood is pretty low just because of the size of the U.S. market. Which brings me to one question, and I was hoping to ask this to one of our commenters, but they canceled on us.

9 I was just curious how India handles this. Most of 10 our organic cotton actually is imported from, or sorry, is 11 received from India. India is a major exporter of organic 12 cotton, and I'm just curious in India if organic cotton seed 13 existed.

But currently the state of the commoners think that, you know, although this isn't needed currently, there's a potential in the future if organic cotton seed is available, maybe we should keep this on the list. So that was some new developments, I think, since the last time we reviewed this, since the NOP came out with that information in 2018.

All right, what questions do you have on this substance?
CHAIR SMITH: Yeah, thanks, Amy. This is great.
I see one from Nate, and then I see Allison.
SECRETARY LEWIS: Yeah, just a couple more details to

25 add to the conversation.

I looked at this substance in 2014 when it was up for sunset, I guess two cycles ago. I was in Lubbock and got the opportunity to visit the ARS Research Facility that was developing the mechanical de-linting.

At that time it was just a tabletop model, so it's encouraging to hear that they're moving in the right direction. I know the industry as a whole, organic or conventional, doesn't want to deal with really toxic chemicals to de-lint their seeds. So once that becomes commercially available, it will probably be a moot point.

Some other details that I learned in that time in Texas, working with the Texas Organic Marketing Cooperative, was that one of the barriers is that the seed houses that use this substance to de-lint are not certified facilities. So that was really the barrier. Farmers can, in the cotton industry, they call it catching their own seed.

17 So they can catch their own seed. Cotton is a 18 sulfur. You can catch seed for a few years, but then you lose 19 vigor and quality, and you kind of need to go back to some of 20 the more traditional breeding lines.

So the issue was that they would catch their own seed, and they'd have fuzzy organic seed. They'd send it to a non-certified facility to get it de-linted. And so it was that lack of certification of that facility that meant that it was not organic seed that was available. So, you know, additional details. I was intrigued by the comment by the Texas Organic Marketing Cooperative that sulfuric acid is now being used as a preferred de-linter, and curious about it. But I imagine it's a similar scenario, where the seed is going to a non-certified facility, being de-linted, and that's where you lose that potential certification of the seed.

8 But like I said, you can only catch seed for a few years before you need to go back to more traditional breeding 9 lines or hybrids. The other component about our trading 10 11 partner were other sources of cotton. This is, again, my data. 12 My facts are 10 years old, so things might have changed. But in India, a lot was planted by hand by small land managers. 13 So they were planting fuzzy seed. 14

They weren't planting de-linted seed. And so, again, it's back to a mechanical limitation. If you are going to plant mechanically, you need it to be de-linted. So hopefully those are helpful facts to enter into the conversation on this. Helpful? Maybe made it more complicated? I don't know.

VICE CHAIR BRUCH: No, very helpful. And that's correct. The sulfuric acid is used in the conventional cotton seed production. So that's not on the national list either, but it was something that was mentioned. And then a very helpful point on the India aspect, Nate, because this is necessary for the mechanical planting, as you mentioned. So

1 thanks for pointing out those two items.

2 Appreciate it. And then I think we have Allison. Is 3 that right?

4

5

CHAIR SMITH: Yeah.

BOARD MEMBER JONES: Yeah, thank you.

I just wanted to say I'm aware of one organic cotton 6 7 grower in California who is trying and trying to get to market, 8 and the post-harvest infrastructure just isn't there for textiles in the U.S. anymore. So I think with increasing 9 demand for clean textiles, just like we see in food, hopefully 10 11 we'll start to see that infrastructure rebuild. And that's 12 another area where market development and a really concerted attention to making sure that we can do the whole thing 13 domestically could be powerful. 14

But in the meantime, I think keeping us on the list as one less barrier to the growth of a domestic organic cotton market would be great. We have one more question from Carolyn. Oh, perfect.

BOARD MEMBER DIMITRI: Hi, Amy. This is a totally basic comment, and it shows my lack of knowledge of science. But, like, I was so confused when you started talking about hydrochloric acid and the substance that's called hydrogen chloride.

24 So I just feel like you need to have some knowledge 25 to understand, like, the transition from one to the other, which I've already Googled, so you don't need to answer it.
 But maybe when you revise it, you can just make that more
 clear, because I really got hung up on it. I don't know.

Does everyone know that? Am I the only person here that really didn't know that? Wow. I'm an economist. I can't help it.

7 VICE CHAIR BRUCH: No, Carolyn, thank you for 8 pointing that out, and I apologize. I did skip over kind of 9 just the use and the conversion, but hydrogen chloride is a 10 gas, which then turns to acid. So that was kind of it. It's 11 spelled out in a little bit more detail in the actual write-up.

But I appreciate the heads up, and I'll provide a little bit more context to that in the next review. So thank you.

BOARD MEMBER DIMITRI: Can I just say one more thing? It wasn't spelled out clearly for me because I did read it to try to see if you wrote it, and I didn't miss it. So just, yeah, thanks.

BOARD MEMBER JOHNSON: Okay. Thank you. Iappreciate that.

21 CHAIR SMITH: Okay. Back to you, Logan.
22 BOARD MEMBER PETREY: Okay. It's actually mine.
23 Thank you, Amy. I appreciate that. And thank you, Nate, for
24 that explanation. That was neat. But most of our cottons come
25 from India, and it's hand-planted. That's a lot. That's a

1 lot. Okay.

Going on with ash from manure burning. So this is at 205.602, non-synthetics prohibited. And it's kind of got a history.

5 So we had petitions to annotate in 2014 and 2019. 6 Those did not pass. 2014 was to annotate ash from manure 7 burning, except where the combustion reaction does not involve 8 the use of synthetic additives and is controlled to separate 9 and preserve nutrients, is unanimous to decline that petition.

And in 2021, ash from manure burning, unless derived as part of the production of biochar from paralysis of cow manure, would actually have that petition, and that was voted down as well. So the use of ash from manure burning would be used as a soil amendment to address soil remediation and sequester carbon. Its manufacture can be thermally decomposed through combustion and paralysis to produce ash.

And the idea is that, you know, in the manure, the carbon is actually very important to the soil. And burning it off is not necessary. We're there to feed the soil.

And I think Amy also mentioned in our subcommittee calls that the idea that there is not enough manure or there is too much manure, excuse me, there's too much manure and we need to get rid of it, it's just not necessarily the case.

24 We have growers that are needing it, especially with 25 some of the supply chain issues that we've seen, and 1 conventional growers are wanting the source as well, kind of 2 figuring out if it's actually good for their crops. And so it 3 makes it more competitive.

And so we're just not in the need. There may be certain areas that have a high production of this, like the poultry area and maybe like the Maryland area might have some of that, but it's widespread. There's a huge demand for this raw material.

9 And so burning it off is not necessary for us. As 10 far as the human health and environmental issues, there are 11 none. But it's because of the burning off the carbon that we 12 don't find it compatible with organic systems.

So with that, I'll send it back for any questions. CHAIR SMITH: You have a question from Wood? BOARD MEMBER TURNER: I'll just say I don't regret asking for the TR for the biochar petition. It's fascinating reading if you're interested. So I highly encourage you to read it.

19 CHAIR SMITH: I don't see anything else. Back to 20 you, Logan.

21 BOARD MEMBER PETREY: All right. Thank you. And we 22 are on our last one.

Mindee, can you close it up for us?
 BOARD MEMBER JEFFERY: I can. But there is not a
 universe wherein I can string all those vowels together, so

1 cryolite, mind, is currently listed as a non-synthetic 2 substance prohibited for use at 205.602. All the written 3 public comments received in this round supported the 4 continuation of this listing as a material prohibited.

5 Comments cited issues of public health and the 6 availability of effective alternatives. Commenters noted 7 organic growers have not reported a need for this material.

8 CHAIR SMITH: Quick. Any questions? Mindee just9 wants to talk about compost, so.

10

Okay. Back to you, Logan.

BOARD MEMBER PETREY: Well, that concludes the sunsets, and we are going to open it up for the compost. I don't know how much time we're going to allow for this, because we are, I'm looking at Eastern time. Okay.

15 So we have 15 minutes until recess, but let's just 16 talk and see from the compost panel. I'm so glad that they 17 came out and discussed. I realize, you know, some of those 18 details were -- I guess you might consider elementary, but really it is an in-depth topic, and there's a lot when you're 19 talking about the biologies, when you're talking about the 20 21 temperatures, and why things happen, and why you have to have 22 some things decompose, and I didn't even realize there was a 23 finished compost.

You know, so I've learned a lot already, and I've
been dealing with compost for a while. So I'd like to push it

1 back to Mindee or Nate to lead this last part of the discussion 2 so that I don't ramble too much and that we get some things 3 done.

BOARD MEMBER JEFFERY: Thank you so much, Logan, and thank you, everyone, for your attention on this and what a fun subject it is and how overwhelming it can be. I'm excited about it. The compost discussion started with support from Nate Powell-Palm, who was the chair at the time, and with Amy, who was the Crops Subcommittee chair at the time.

We worked toward a work agenda item, and I am real grateful that Nate Lewis came on board for helping us work on this issue. So great job on the compost panel, Nate. Thank you for lending your voice to all the discussion and setup and getting the full Board immersed into this issue.

Really appreciate you talking me through things so many times. I'm an out loud processor. Sometimes I have to really work it through to get it, so thank you.

18 The following summary, it's not really meant as a full dissection of public comments. It's a massive universe 19 out there, and we wanted, in the honor of collaboration and 20 21 really cast a wide net, find out everything we can find out 22 from ourselves and from the experts that show up in public 23 comments. And so just know that I have every question and all of the public comments cataloged into each individual question, 24 and that's all going to go back towards informing what we do in 25

1 crops.

2 I really want to appreciate the work of the food 3 technologists. When I find myself a little overwhelmed and I 4 sort of can't see the wall anymore and I'm confronting my 5 unconscious bias, it's really nice to read through how you packaged it for us, and so I really appreciate you. б In that, we are committed to making a recommendation to the program 7 8 rather guickly because that's what this Board said we would do in light of the BPI petition. 9

I think it could be really important for us to sort 10 11 of look at the buckets that we are really within our authority. 12 And so it looks like 205.203 definitions and the national list. And so I think it would be good in the context of this 13 discussion to look at those packages, get a sense of the 14 15 direction because we need to give crops a direction, right, to work on this. 16

17 And so unpackage those areas where that's the work 18 that this Board does and that we can get some clarity and knock out some low-hanging fruit of some issues. So we can just look 19 at 205.203, think about the definition, think about the 20 21 national list and kind of establish some clarity for crops to 22 work on, and then take some time for the bigger issues for the 23 Board to inform us of where to go on some of those other Does that make sense? 24 issues. 25

So in the sense of 205.203, we added an additional

method in our suggestions. So if you're looking at your 1 2 discussion document and you look at question one. So the 3 205.203, we suggested an additional method. We had some questions about the 15-day interval, and we got good comments 4 5 back on that, and I think we have pretty clear direction in that I think we have some consistency issues and some clarity б that we need to do on the 15-day issue. We heard from public 7 8 commenters and material review folks that they liked our additional -- our sort of language adjustment to those one, two 9 -- those, well, they're two, three, and four. So we're talking 10 about the static pile, the windrow, and the container methods. 11

And so we heard back that folks like that and that we're on the right track with that, and we may want to consider other.

So I'm pretty clear that the comments gave us that clear direction, and so if anybody has any questions about that, it might be a good moment to indicate to us as crops, if you have questions there or you want to send us in another direction. Working towards a recommendation, that's the language we're working with there.

So I think we have a little bit of work to do on the 15-day requirement, and I think we should follow up on a little bit of questions on how to language that so it's really clear that what are we doing at material review and at certification when we're evaluating windrow systems and how that 15-day is

1 looked at, because I think the impact to the small-scale
2 windrow producer is important there, and we've got to get that
3 right.

And so we're not talking about reducing the 15-day requirement, we're just talking about consistency at review as to whether or not that has to all happen in 15 days and no longer. We good there?

8 So then the other section there is the carbon to 9 nitrogen ratio.

10 Sorry, did I miss somebody? Go ahead, Amy.

11 VICE CHAIR BRUCH: Sorry, thank you. I just had a 12 question.

Do we need to expand the scope on that one to consider these static piles or modified static piles just because of the ratio of what Doug had told us of both season windrows versus other methods?

BOARD MEMBER JEFFERY: Yeah, my sense is if we clean up our languaging on the 15-day requirement, we'll fix that. So we intend to work on that in crops. Great.

And then the carbon to nitrogen ratio, I think we heard a lot in public comments about how that is a best management practice, and we might not need that at initial feedstock review, and that we may want to consider if we want to put guardrails around finished compost, but there's testing implications there, so I think there's some discussion to be

1 done on whether or not we want to do that. So that's the 2 direction we're going to go in crops as we explore this for 3 next semester.

Okay. So I suggest in conjunction with CACS around testing UREC and contamination that crops has a cross-dialogue with CACS on that residue testing because it's a big universe and there's a lot of implications, and I think we're going to do a better job if we do that collectively in conjunction their work over in CACS, and I think we'll hear more about that tomorrow.

11 SECRETARY LEWIS: Yeah, and we will talk about that 12 more in CACS, and I think to foreshadow and help this conversation, the residue testing discussion document is going 13 to first focus on residue testing of certified organic products 14 and then second potentially focus on residue testing 15 16 requirements, contamination, et cetera, of inputs used on 17 organic farms or inputs used in organic production. So again, 18 trying to keep each bite actually a bite and not a mouthful, but I think that your inclination and your suggestion to 19 relocate that component of the compost dialogue is sound. 20 21 BOARD MEMBER JEFFERY: Questions on that piece? 22 Okav. So thinking about definitions in the public 23 comments, we definitely heard the suggestion from the composting community that we look to the AAPFCO, which is sort 24 of reflecting current compost thinking and practice around 25

that, and I really like that suggestion. I think we do have to consider our definition and how important that reference is to plant and animal material and how we may want to consider a reference to the national list in that we could adjust the definition to say plant and animal material and allowed synthetics on the national list because that gives us consistency with references in other places like paper pots.

8 So work on the definition. I think we should 9 consider our definition against the suggestion from the compost 10 community and the need to reference the National List, and I 11 don't think we have to be in perfect agreement here. We're 12 looking for direction to crops to move forward.

13

Okay. Go ahead.

CHAIR SMITH: I saw Allison have a question on her 14 Not fully formed, but I think this is the right place to 15 face. say that if we're thinking about incorporating the ASTM 16 17 standards, I would lean toward doing that in our own words 18 rather than referencing the standards so that we have a little bit more control in the organic world of how that evolves over 19 time, thinking of the inert situation as a cautionary tale. 20 So 21 I like the idea potentially of incorporating some of these best 22 practices that exist but being explicit about it in our own 23 rules.

24 SECRETARY LEWIS: I think that's great, and we have 25 the flexibility because a number of the ASTM standards are 1 already incorporated by reference at 205.3, so we can lean on 2 the existing regulation should that be useful.

3 BOARD MEMBER JEFFERY: And then here we are at the 4 national list. And so for us, if we want to add synthetics to 5 the national list and make considerations there, that's where we have to work through the national list, right? And so I б 7 quess I'm interested in hearing that we affirm that that's our 8 process and then hearing folks around what they might think of as a synthetic we might think about adding in those. Like, do 9 we need classes? I'm a little, like, I'm a wonky there, Nate. 10 11 Like, get in here and help me with that part.

12 SECRETARY LEWIS: Yeah, well, I think that the 13 national list process is cumbersome and it is specific and it 14 is relatively inflexible. So those are some challenges to the 15 national list process, right? And so we just want to proceed 16 cautiously.

But based on precedent around paper being used as a compost feedstock with leaf collection bags, that is our tool. So let's exercise that tool and recognize that it's a hammer looking for a nail, right?

BOARD MEMBER JEFFERY: Well, yeah, because we have this broad work agenda, right, from the program around compost. But we also have the work that we do here. And so in the grand scheme of things, we don't have a specific request to us around specific synthetic materials. 1

So where's the path?

2 SECRETARY LEWIS: Well, I think the path is that as 3 part of this compost proposal, we can make a recommendation to 4 the program to add a synthetic to the national list.

5 BOARD MEMBER JEFFERY: So is it functional, then, for 6 us to then request from this group, looking at that, what ones 7 are we considering?

8 BOARD MEMBER DIMITRI: Okay, Mindee, you are 9 formidable. I'm just telling you. So can you, like, walk back 10 about three steps and talk to someone who's, like, not a 11 compost maker and not on the crops committee and say, like, 12 what is, like, the overall purpose of this particular work 13 agenda?

And they're like, where do you want to take it? And thank you. And I say that you're formidable in the most complimentary possible way because you are, like, wow.

BOARD MEMBER JEFFERY: I appreciate it. I'm good at process, but I get lost in the details, and that's why I need Nate Lewis all the time. So go ahead, Nate.

SECRETARY LEWIS: Well, Carolyn, I think your question could be stated, what does success look like, perhaps, or what are the overarching goals of the work on the compost? And I think that that was motivated by a number of factors. One, that there are some specific languages, language in the regulation around compost that do pose barriers to meeting the

1 organic requirements.

2	And they're I wouldn't want to say obsolete, but
3	they are based on a relic of a compost standard. So there is a
4	motivation to modernize the organic regulations to reflect how
5	composters are currently thinking about compost and safety and
6	product quality. There is simultaneously a broader
7	conversation around compostable plastics, compostable items,
8	and their role in this discussion.
9	So we're sort of charting a course to have the
10	conversation. We can kind of go, what do we think about

11 compostables, but first we need to chart our course. Like, how 12 would we actually achieve a regulatory recommendation that 13 could function? And then within that course, we can talk about 14 the pros and cons, the benefits, the risks, all of those 15 things, and whether or not organic wants to participate. Does 16 that help?

BOARD MEMBER DIMITRI: Yeah, thank you. So it's sort of like a new way of thinking about compost to make life easier for everyone, totally separate of the compostable plastics.

20SECRETARY LEWIS: Yeah, separate but integrated,21yeah.

BOARD MEMBER DIMITRI: But I mean, even if we were to decide today at this moment that compostable plastics should not be in compost, then this conversation is still important, is what I hear you saying. Okay, thank you.

BOARD MEMBER JOHNSON: Thank you so much for all the work you've put into laying this out and going through step by step is helpful. And I'm also with you, Carolyn. It's like, what are we grappling with here?

5 And I've been mulling this over with my 6 environmentalist hat, with my public interest hat, with my 7 consumer who mostly buys organic but also eats pizza and puts 8 the box in that green bin hat, and it's a lot. I think where 9 I'm landing is that if we really want organic to be climate 10 friendly, gold standard, we have to do our part to deal with 11 food waste. Food waste is a huge component of landfills.

Landfills are the third biggest source of methane emissions. It's a huge climate issue. So we're balancing the kind of farm interests of the organic community with our big, big picture environmental responsibility to get away from plastics and do our part for the climate.

So in specific answer to your question, I think we need to find a way to move from plastics to compostables and do our part to get those into the compost stream that's organic compliant and keep out any extra chemicals that we can. So it seems like it's going to be a combination of paper we heard is kind of in a, oh, it's really coming in. We're not quite dealing with that.

24 So just putting that on the national list isn't going 25 to be a full solution probably because it's probably not all synthetic. So there's something to work out there. There's
 keeping the universe of compostable bio-based plastics small
 enough that we're not letting in extra unknown chemicals.

There's a lot to work out there. But big picture, I think that's the direction I'd like to see us go.

б

BOARD MEMBER HUSEMAN: That's a lot, Allison.

7 I just leaned over to Nate and I said it's a compost 8 sandwich. We've got a lot to tackle there. But I liked how 9 you articulated what you did.

BOARD MEMBER D'AMORE: I tried to get my hand back down. I don't know that I'm going to be able to articulate as well as I would like. But we listened to a really great presentation today, and it struck me that there was a significant part of what was said by a couple of the presenters that it was a business.

16 So it strikes me, if it's possible, that part of what 17 we might want to think about in trying to create this flow and 18 some degree of progress in the world of compost, can we tease out what's a moneymaker, too? I mean, the compost has value. 19 And is there a way to have the value of that compost drive some 20 21 of the solutions that we give to the program, to this effort 22 that we're going through? And if I didn't make sense there, 23 I'm just going to say sorry.

24 SECRETARY LEWIS: Just to sort of summarize what we 25 heard today, is that the organic claim, while not exactly applicable to inputs, is still driving that industry's demand.
 And so it's sort of like organic adjacent. You can't put the
 seal on a bag of compost.

But we are conveying benefits of the organic principles to this type of compost. So I think there is a business case to be made for how the organic marketplace can drive, you know -- Wood, you said it best, give us the food, leave out the garbage, and is there a way to use the organic marketplace to get that food out of the landfill?

BOARD MEMBER TURNER: I was just going to reiterate 10 11 that point. I just want to make sure I understand what you're 12 saying, Allison, because I'm coming to sort of a different 13 conclusion where I feel like I don't want the stuff in the So I want the food in the stream. I don't want the 14 stream. contaminants in the stream. And I feel like one position might 15 be to move in that direction. I mean, I actually would like to 16 17 see as much food as possible in the green bins. And none of the other stuff. 18

And I think one way to do that is to not let the stuff be put in there, period, the end. I mean, I'm happy to continue to caucus on this and keep working through this.

I'm not trying to be strident here, but I'm just trying to say that's what I feel like I'm hearing. And I don't know why we're -- I said it earlier, I don't know why we're burdening the land with this problem and not solving the

1 recycling problem. Globally.

2 To me, I work in San Francisco. I listen to the 3 person in San Francisco talk about this. It is an 4 embarrassment to walk around downtown San Francisco to me and 5 see just enormous amounts of biodegradable, compostable, whatever word you want to put on it, plastic being used by food б 7 places, food businesses all over downtown San Francisco, and 8 filling up trash cans. That's not a zero waste solution. It's 9 something else entirely. So I just, again, I'm happy to continue to caucus on 10 11 this. That's where I'm at right now. 12 SECRETARY LEWIS: Thanks, Wood. I saw on the queue, 13 I saw Nate and Brian. And was anyone else? And Allison. Okay, so Nate, Brian, Allison. 14 BOARD MEMBER POWELL-PALM: Yeah, I'm saddened by the 15 16 thought that I will never be with a group this smart in 17 anything else I do. Because you said exactly what I've been 18 noodling on all day, that are we asking the right questions about what should be our responsibility? And if we're saying 19 that we're going to deal with the plastic, we want less 20 21 plastic, let's make less plastic then, as opposed to let's 22 figure out how we are going to absorb it into our systems and 23 be responsible for something that we didn't do. And I would also echo this idea that we want all of 24 the food to go into compost and get it done. But, again, that 25

1 does not mean that we can't. If we're bad at sorting now, it 2 doesn't mean that we're going to get any better just by letting 3 this stuff in.

And so thinking about how do we get more food waste sorting and where is it going to happen, I think would be more my question for how do we get as much food waste going in without anything else in it. And so I think that's, you know, I'm feeling less burdened by needing to take care of this problem and more logistical about how do we just start to help folks get more food waste streaming into these systems?

11 SECRETARY LEWIS: Brian?

BOARD MEMBER CALDWELL: I'm going to pass.
SECRETARY LEWIS: All right. Allison? I've got you,

14 Jerry.

BOARD MEMBER JOHNSON: Yeah, I mean, I wholeheartedly agree with both of you. And I think we didn't hear any comments to the contrary. We all want to get off this singleuse item system.

It's disastrous. And I'm looking around this table, 19 like often I remember to bring my bug. Often I don't. 20 And 21 we're really far from a place where every restaurant, every 22 airport, every venue has glass, metal, dishwashers, the pieces 23 that we would need to go fully reusable. I think it's imperative that we get there. But in the meantime, if we stick 24 25 with the plastics, there's some recycling that could be

1 improved, but you're not making a new bottle. You're making,
2 like, bricks that go into some other use. It downgrades each
3 time it goes through the cycle. And that's all new fossil fuel
4 use.

5 So I think this in-between step that we're in, we 6 have an opportunity to take a step in the right direction while 7 doing all the other things, too. And one other point, as we're 8 talking about equity, 80 percent of landfills and incinerators 9 are in BIPOC communities.

10 So it's a disproportionate burden on people of color 11 to continue to put things in landfills.

12 SECRETARY LEWIS: Go ahead, Kyla.

13

CHAIR SMITH: My turn. This is great, guys.

I think one of my big takeaways from the panel, and Mindee had asked about what things we want to consider adding to the national list.

Like, that's what we're on here, right? And so I heard some of the big problems were the produce stickers. So I think that needs to be up for consideration. And then I heard the liners. So I'm putting those into the soup pot that we should really tackle those, because those were the two that I feel like I heard the most talked about.

SECRETARY LEWIS: Thanks, Kyla. Jerry?
 BOARD MEMBER D'AMORE: Thanks. I, too, am feeling
 awfully good about how you put that, Wood. And as you

developed it, the trailing thought was, and there's just
 plastic everywhere, and why do we have to fool with it, blah,
 blah, blah, blah.

4 Are we, perhaps, getting close to wanting to say to 5 ourselves that we cannot be the perfect drivers of this б problem, that we are not the people to fix it? That would take 7 me back to plastic mulches and the recognition that with 8 plastic mulch, our organic farmers are responsible for putting down 1 percent of that mulch, and we're not going to be able to 9 fight 99 percent. We're just going to put our farmers out of 10 11 business.

So as you were speaking, this was welling up in me, and it was actually your comment, why do we have to fool with it? My contention is we don't, and we shouldn't. There's someplace better to do this.

SECRETARY LEWIS: Thanks, Jerry. Just to give folks a queue updates, we have Franklin, Mindee, Carolyn, Nate Powell-Palm.

BOARD MEMBER QUARCOO: All right. I'll keep mine 19 short with Wood and Nate on this issue. It was part of the 20 21 question that I asked during the session. So that's about it. 22 BOARD MEMBER D'AMORE: Franklin, I'm sorry. I missed 23 that. Could you restate that? BOARD MEMBER QUARCOO: I'm with Wood and Nate on this 24 25 issue, and then with you on it. And actually, during the

session, the question I posed to the panel, it had a little bit 1 2 of this in there. So I don't think we need to absorb. 3 It's a problem that needs to be solved. None of this 4 is really here. 5 Go ahead, Mindee. SECRETARY LEWIS: In honoring Allison's comment 6 BOARD MEMBER JEFFERY: 7 and thinking about the petition from BPI and thinking about 8 everything California is trying to do, I really honor all of And so for me, as the NOSB, if we are going to add 9 that. synthetics to the national list, what's the mechanism? 10 So, 11 like, if we were going to do produce stickers and liners, are 12 we referring to an ASTM standard?

Like, for me, I need mechanism as the NOSB. 13 And so I'm not sure I feel really good about the ASTM standards, and 14 I'm happy to be more educated on this front. But looking at 15 the 90 to 180-day breakdown, which really isn't what industrial 16 17 composters are doing, there's some hesitancy for me to rely on 18 that, because I think looking at what certifiers said about what they would have to do to make that work in evaluating a 19 compost program looks kind of problematic. 20

And then I want compositional information. We look at manufacturing, we look at environments, we look at human health, and so if we're adding synthetic substances to the national list, our job is to have all of that information. And it seems like there's a problem for the compostable packaging

industry to give us that information, because there's a lot of polymers and there's a lot of processes, and that's a big universe.

And so I don't know where the regulatory coherence is for me. And for me, it's a metaphor, and it's a kind metaphor in my perspective, in that organic had this problem in the '80s and '90s. We had a lot of certifiers with standards, and we didn't have regulatory coherence.

9 And now we do. And we mostly have to reference 10 regulatory coherence in order to get our job done. And so help 11 me with that as we move forward, so that when, if, how there's 12 a path for compostable packaging in organic, that's clear and 13 inside of our process.

And so to me, that's the compromise. That's the path, that if we want produce stickers, like let's say we start out with produce stickers and bag liners, because that's functional for us. Then, like, okay, how do we evaluate that in our technical review process?

And then that establishes a path for the future of compostable packaging to come to us and have us be able to relate to them inside our mandates.

22 SECRETARY LEWIS: Thanks, Mindee. Carolyn?
23 BOARD MEMBER DIMITRI: I have a few thoughts. One is
24 I think composting those biodegradable plastics, the packaging,
25 is a really good idea. I don't think it belongs in organic. I

1 mean, I don't think any -- I mean, maybe I would be willing to 2 talk about it, sort of what Wood said, but I don't think I 3 could ever really get behind it.

But maybe another question I have is, is this the best way to do this process, is to do the -- redo the compost and then think about the petition at the very same time, or does it make more sense for you to do your compost thing and come up with what you think and then address the petition in the context of that? And that's -- yeah.

10 SECRETARY LEWIS: Well, just to clarify, the petition 11 is not before us, so we don't really have an opportunity to 12 address it directly. But your point is well taken. Nate 13 Powell-Palm?

14 BOARD MEMBER POWELL-PALM: I was waiting for Jerry to bring up the "it's not our problem to solve this issue." And I 15 16 think hearing from Matt on the compost panel, this isn't going to stop the production of compost, and that would give me most 17 18 hearts. And when I think about the whatever number that we couldn't quite get to use on the billions of pounds of cattle 19 manure, that there's a lot of things to think about, but us 20 21 taking plastic into our stream, I think, is a separate issue, 22 rather than inventing new bio-mulches.

And I think this is one where we can say no and have an impact.

25

SECRETARY LEWIS: I'm going to call on myself to

share just I think what informs my opinion, which is that there 1 2 is already plastic in our organic compost. So I understand 3 that many stakeholders feel like the regulation is working well now, but in my opinion right now there's already too much 4 5 plastic contamination in compost use on organic farms. So for me, if there's any opportunity for some of that to be a б 7 compostable product that can break down and become staple 8 organic matter, that is a win.

9 And that is what informs my muted enthusiasm for
10 trying to find some sort of pathway for a compostable product
11 to enter the organic composting stream.

12

Wood, then Jenny.

BOARD MEMBER TURNER: I just wanted to -- sorry, I just noticed when you said the thing about the petition not being before us that Jenny had a reaction to it, and I wanted to get you to react to it. One of the things that does bother me about this is that there is an issue before us that has implications for what we do in this process that has come to us through a different means.

And I'm curious about that, and I'd love to have some, like just, it's almost like that petition that is really not before us, there's a reason for that. And I'd like to just acknowledge that and understand that better.

24 DR. TUCKER: This is advanced process management. So 25 in terms of how we're doing Board management here and just how all of these things play, I'm trying to be really, really specific now when we're talking to the team of are we talking about a petition for the Board or a petition for rulemaking? Because it's the same work, but they're really, really different.

6 So the petition for rulemaking did come to the 7 program. So the program does have a responsibility, under some 8 law somewhere, to analyze that request for rulemaking, that 9 petition for rulemaking.

We did give you a work agenda where it does ask you 10 11 to work on the topic of compost and organic production, submit 12 feedback or recommendation that addresses the requests and issues raised in the BPI petition for rulemaking, as well as 13 the issues raised by the Board. So we have, in some ways, kind 14 of deferred, instead of us doing analysis on the petition for 15 rulemaking to start with, we've deferred it to the Board to 16 17 work on those issues.

I will say from a very practical perspective, anytime there's a petition for rulemaking, we have to do something, right? It is a formal tool. So we can deny the petition for rulemaking.

We've done that on a few cases. The rules are that we can deny a petition for rulemaking if we have a wellreasoned reason for doing so. It's not arbitrary and capricious. We've done a thorough analysis, and this work is

1 part of the analysis.

We can move ahead through rulemaking, or we can continue to analyze them. There are some petitions for rulemaking that agencies have where they've been analyzing it for decades, but they continue to analyze it, so they're doing it. So those are kind of the three paths.

7 I will say the reason we asked you specifically to 8 look at the petition for rulemaking is if we do go to rulemaking on this topic, it would be a heck of a lot better to 9 get input from this at this stage that can feed in, so we're 10 11 not doing the whole, in rulemaking, get all these surprises and 12 have the Board say, well, why didn't people say this during the 13 Board process? So that's why we wanted you to work on the petition, is we're starting at the very beginning, getting a 14 15 full picture to feed into rulemaking.

That was probably way more you needed, but this is a really new process, and how we play this three-dimensional chess game is important.

BOARD MEMBER TURNER: Yeah, and just to be clear, I was less concerned about how it came to us and more about how it came to you. That's more of my concern. I appreciate being engaged.

I appreciate that we were engaged. I'm more
concerned about how it came to you.
DR. TUCKER: How it came to you?

1 BOARD MEMBER TURNER: How it came to NOP. How it 2 came to NOP. 3 To NOP? We got a letter. We've got DR. TUCKER: 4 about five of these, I would say, in the last five years, so 5 this is not an uncommon tool. б BOARD MEMBER TURNER: Okay. 7 SECRETARY LEWIS: Thanks so much for that 8 clarification, Jenny. Allison. 9 BOARD MEMBER JOHNSON: I'm glad you raised that, Wood, because I think partly the direction the petition went 10 11 has to do with a disagreement on the role of the nationalists. 12 If someone was petitioning a material to us, it comes to us, but I understand BPI's position to be it doesn't have to go on 13 the national list, so it would go around us. So just being 14 explicit that our determination about the role of the national 15 16 list is part of the mix and authority. I'll just share one more opinion. 17 SECRETARY LEWIS: 18 It does not seem as though our analysis of this issue is concluded. Okay. 19 I see sort of a nodding of heads there. 20 BOARD MEMBER JEFFERY: No, that's why I wanted to 21 22 kind of get through those buckets, because I feel like there's 23 some stuff we can pretty clearly work through in crops, that we can provide some really clear information. We got great 24 feedback from the stakeholders, and I think I heard a lot of 25

1 yes go in that direction in that section. But I think in this 2 part, I want to hear the path, and that's what I don't know 3 yet.

And so I don't particularly like the thought of all of the constituents that make up compostable plastics and how they break down. I don't want them in compost that goes on organic land for organic crops or organic feed for livestock. But because our job is a function of democracy, I do want us to create the path by which those materials could be evaluated.

And so that's my interest in the situation, is if we're going to look at produce stickers and liners for sure, still the same question.

SECRETARY LEWIS: Any other comments, questions?
Well, I appreciate you all turning on the jets at the end of the day for really robust deliberations. I'll turn it back to Kyla or Logan.

BOARD MEMBER PETREY: I'll give it to Kyla. Thankyou all. Thank you, Mindee.

19 CHAIR SMITH: Okay, we reach the end of day two, 20 everybody. Okay, so we will be on recess until tomorrow 21 morning at 9:00 a.m. Central. Again, thanks for everybody for 22 sticking with us in the room and in the Zoom land.

The links, again, will all be the same tomorrow. And we will kick it off with handling tomorrow morning. And we're going to take a Board photo.

1	So Board members don't go anywhere. Just stay right
2	here. And then we're going to go take our photo. And that
3	also is for the NOP staff. NOP staff also is on picture time.
4	Thanks, everybody.
5	(Whereupon, at 5:51 p.m., the meeting was recessed to, to
6	reconvene on Wednesday, May 1, 2024, at 9:00 a.m. CST.)
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	

Г

1	CERTIFICATION
2	
3	This is to certify that the attached proceeding
4	before the:
5	NATIONAL ORGANIC STANDARDS BOARD
6	
7	IN THE MATTER OF: NOSB Board Meeting, Spring 2024
8	PLACE: Milwaukee, Wisconsin
9	DATE: April 30, 2024
10	
11	was held according to the record, and that this is the
12	original, complete, true, and accurate transcript which has
13	been compared to the recording accomplianed at the hearing.
14	Edine Molkapee
15	
16	Elaine M. LaRosee, CDLR
17	Official Reporter
18	
19	
20	
21	
22	
23	
24	
25	

- Vol. 4 April 30, 2024

Spring 2024 Meeting			1	April 30, 2024
	164:15	acidification (1)	191:18;192:4;203:9;	adhesives (2)
	academically (1)	186:9	206:23;209:14,15;	116:1,18
—	154:14	acknowledge (11)	219:1,7;222:10;	adjacent (3)
	accelerated (2)	16:25;36:21;41:1,8,	226:22;227:12,18;	164:2;174:3;241:2
(2)	87:15:88:6	10;63:3;83:18;87:24;	228:2;234:18;238:12;	adjust (3)
248:1,9	accept (14)	109:8;192:5;249:23	241:16;245:13,25	185:19;197:13;
\$	56:23;66:13;122:1;	acknowledges (1)	acute (4)	235:4
.	127:25;135:3,3;	95:9	13:6,8;16:5;26:14	adjustment (5)
\$100 (1)	136:13;138:12;151:3;	acknowledging (1)	add (27)	185:23,23;186:11;
\$100 (1) 77:6	161:15,15;180:24;	168:8	17:24;18:24;24:15;	190:21;232:9
\$14 (1)	192:25;209:25	acknowledgment (1)	43:6;50:16;68:21;	admin (2)
139:6	acceptability (1)	58:19	69:19;102:7;105:13;	94:23;95:3
157.0	159:15	acre (1)	128:5;129:8;139:12;	administering (1)
Α	acceptable (6)	133:19	143:8;145:22;151:16;	8:8
	130:2;135:9;	acreage (1)	157:22;167:22;	administrative (1)
AAFCO (1)	153:20,21;157:24;	147:7	169:15;178:24;	94:22
48:20	158:7	acres (4)	182:18;191:22;	admit (1)
AAPFCO (2)	acceptance (8)	133:11,13;162:7;	195:18;216:15;	59:4
120:3;234:24	9:8;11:14;122:2;	166:23	222:25;236:4;237:4;	adoption (2)
Aaron (1)	203:16;208:14;	across (9)	246:9	181:25;182:2
72:6	215:16;219:13,15	26:13;54:25;61:17;	added (20)	advance (2)
abdicate (1)	accepted (3)	118:22;121:7;157:4;	15:8,18;29:20;	87:16;124:6
78:24	118:7;126:2;129:19	199:16;202:16,21	39:13;50:20;51:3; 64:10;84:10;95:12;	advanced (2) 81:23;249:24
ability (3)	access (4) 99:23;101:10;	act (6) 50:3;93:5;95:6;	102:11;104:23;105:2;	advances (1)
39:19;95:20;121:5	123:24;147:16	132:18;149:5;203:11	102.11,104.23,103.2, 107:14;148:6;159:25;	220:24
able (31)	accomplish (1)	action (2)	160:1;219:24,25;	adverse (1)
21:19;24:5,17,18;	111:12	160:11;178:16	221:5;231:25	187:3
27:8;32:24;38:3;	accomplished (2)	active (10)	adding (10)	Advisory (3)
42:24;51:2;59:7;73:5; 81:25;108:12;113:19;	109:11;192:2	101:22;208:8,21;	68:25;69:21;98:24;	93:5;95:6;125:15
119:17;133:18,19;	account (2)	209:10,14,14;210:9,	148:10;152:11;	advocate (1)
138:12;139:12;	153:17;160:9	15;211:6,15	194:17;195:21;236:9;	34:14
149:14;151:3;153:13;	accountabilities (1)	activities (5)	244:15;246:23	advocating (1)
161:3,8;175:10,11;	93:24	36:1;52:8;73:8;	addition (8)	155:9
176:20;188:11;	accrued (1)	102:19;186:5	11:10;57:23;94:18;	aerated (5)
240:11;245:9;247:20	189:6	activity (1)	98:11;105:3;130:1;	106:10;137:2;
above (3)	accumulate (2)	110:11	158:11;188:1	171:11,13;172:2
171:6;214:20;	10:3;16:22	activity-supported (1)	additional (18)	aerobic (2)
221:20	accuracy (3)	111:10	31:18;53:9;54:2;	12:8;101:22
absence (2)	83:15,23;93:25	actual (8)	63:16,25;64:18;83:2;	affect (3)
37:2;53:1	accurate (2) 156:5,7	9:4;76:8;106:25;	84:20;97:23;116:13; 120:21;121:25;	19:9;169:25;170:3 affected (1)
absent (3)	accurately (2)	107:2;116:2,13; 172:20;226:11	120:21;121:23; 195:15;204:14;224:1;	13:15
67:21;95:19;202:2	96:7;145:20	actually (78)	231:25:232:3,9	affects (1)
absolute (1)	acetic (2)	8:2;10:17;11:25;	additive (1)	162:24
153:22	11:23;31:14	14:2,7;19:3;27:22;	48:11	affiliations (1)
absolutely (8) 126:14,15;154:8,	achieve (1)	45:17;46:5;48:13;	additives (2)	102:11
	238:12	49:3;70:12;71:23;	20:7;227:8	affirm (1)
24;155:15;166:7; 169:1;173:17	achieved (1)	74:6;77:3,22;79:20,	address (7)	236:7
absorb (3)	189:22	23;80:2;88:10;89:12,	19:13;24:5;41:24;	afraid (1)
219:22;242:22;	acid (44)	23;95:17;101:21;	199:25;227:14;248:8,	142:7
246:2	9:6,21;11:22,23,23,	108:13;115:24;	12	afternoon (3)
absorbs (1)	23;31:8,8,9,10,12,14,	116:12,19;118:24;	addressed (4)	99:25;109:18;213:8
187:6	15;32:5;34:1,1,19;	123:11;124:11;	41:13;177:15;	afterthought (1)
abstain (2)	35:1,5,10,12,16;	126:22;127:13;129:2,	193:2,3	197:8
199:3;201:13	36:15,16,16;38:2;	23;130:25;131:4,7,	addresses (1)	afterwards (1)
abstained (1)	40:13,16;61:20;63:1,	21;132:12;134:7,9;	250:12	124:19
202:3	11,14;186:2,6;	135:21;136:1;137:14;	addressing (1)	ag (14)
abundance (1)	208:12;219:19,22,23;	155:20;163:11;	55:19	121:25;123:6;
169:6	220:2;221:11;224:3,	169:20,23;170:1,3;	adhere (1)	126:12;133:3;138:19,
ACA (1)	21;225:22;226:10	172:25;173:2;174:23,	193:6	23;145:11;157:6;
19:24	acid-catalyzed (1)	24;176:25;181:14;	adhesive (1)	164:23,23,24;166:1;
academic (1)	9:5	184:9;187:14;188:6;	116:12	169:10,11
		4		

	-	Vol.	4
April	30	, 202	24

Spring 2024 Meeting	1			April 30, 2024
again (68)	159:13,15,18;235:11	16:11	144:17	Americans (1)
10:12;12:12;14:25;	agreements (2)	alignment (1)	almost (12)	128:20
18:7;20:4;25:10;	79:22;80:14	48:15	26:12;27:24;33:16;	amino (3)
32:11,18;33:3,12;	agricultural (10)	alike (1)	46:13;91:3;103:13;	38:2;40:13,16
37:23;41:16;47:2,10,	10:18;103:1;110:7,	127:16	128:17;138:20;	ammonia (1)
13;49:23;53:2;62:6;	8;114:20;116:4;	Alison (1)	166:21;186:6;206:2;	37:20
64:3;70:22;73:20;	130:8;144:10,24;	62:2	249:21	ammonium (12)
75:20;79:5,19;83:23;	216:1	alkaline (1)	alone (5)	203:7,8,10,14,17,
120:23;121:15;122:9,	agriculture (13)	185:24	82:14,15,17;	19,20,21,24;204:2,10,
23;123:4,13;125:12;	22:20;23:6;70:9;	alkaloid (1)	166:10;175:2	16
126:4;138:14;141:14;	79:12;123:8;145:2;	8:13	along (13)	Among (4)
144:13,15;145:19;	150:18;162:10;164:1;	alkanol (1)	45:19;46:23;89:15;	15:12,16;103:13;
155:10;157:7,13;	168:22;169:10;	11:25	92:3;111:7;128:14,	124:20
162:17;165:4,11;	185:24;192:21	alkyl (2)	14;133:14;183:6;	amongst (1)
169:8;179:6;183:10,	agriculture's (1)	11:4;90:21	190:16;191:14,14,25	94:13
13;190:20;193:22,25;	38:14	alkylphenol (2)	alphabet (1)	amount (18)
194:5;195:9,16;	agronomically (1)	17:18;18:6	124:18	43:19,19;49:21;
197:9;198:17;199:25; 200:4,5;210:11,16;	42:13	Allison (27) 18:20;44:13;45:11;	alteration (1) 204:6	50:23;79:24;124:9;
224:11,15;234:17;	aha (1) 78:17	48:3,17;57:25;67:4;	alternative (11)	133:6;135:22;136:3; 142:9,10,19,20;
242:10,25;253:21,23	ahead (38)	74:3;89:5;97:10;	40:15,19;42:17;	142.9,10,19,20, 143:11;144:21;
242:10,25;255:21,25 against (6)	18:24;27:17,19,20;	146:22;170:10;	40:15,19;42:17; 43:21;117:15;141:8;	145:11;144:21; 146:25;149:7;171:9
31:25;58:20;	28:15;29:17;30:8;	172:16;177:5;197:23;	173:6,10;205:22;	amounts (5)
187:23;204:18,19;	41:8;74:13;94:15;	199:25;217:19;	220:6,24	33:13;45:25;77:8;
235:9	97:19;98:22;125:3;	218:14;222:23;225:2;	alternatives (15)	178:22;242:5
age (1)	129:25;140:4;142:4;	235:14;240:6;241:12;	41:11;72:8;117:11;	Amy (41)
164:14	146:22;159:6;161:22;	242:13,14;243:13;	141:4;187:11,11;	6:8;27:17,17,22;
agencies (2)	172:14;174:10,11;	252:8	205:24;214:9,10,20;	28:15;29:17;31:7;
113:3;251:4	179:10;188:19;	Allison's (1)	219:6,7;220:6;221:6;	32:16,19;42:2;60:15,
agency (6)	192:12;194:20;195:8;	246:6	229:6	16;67:18;77:11;87:7;
56:8;93:5;113:11;	196:15;198:12;	allotted (1)	although (4)	93:17;97:19;159:4,6;
129:14;146:2;180:9	206:10;211:25;	141:24	140:5;161:7;	170:10;172:16;177:5;
Agency's (2)	218:14;233:10;	allow (16)	178:13;222:15	179:10;196:21;
44:19;95:5	235:13;237:19;	16:1;95:25;117:17,	always (34)	201:22;203:6;204:25;
agency-wide (1)	244:12;246:5;251:2	21,24;120:13;148:25;	6:6;22:4;33:16;	205:1;211:25,25;
93:3	aid (1)	150:19;183:1;185:18;	37:16;41:10,16;43:7,	212:12;213:4;217:19;
agenda (12)	11:15	203:17,19;209:8,9;	14;59:5,5;68:4,5;	218:24;219:1;222:22;
88:11,12;92:19;	aids (2)	211:18;229:13	69:8;74:11;77:16;	225:19;226:23;
99:17;104:3;130:17; 141:20;184:10;	9:9;215:10	allowable (3) 121:17;123:14;	80:9;81:3;100:8,12; 101:14;119:5,6,8,11;	227:20;230:8;233:10 anaerobic (1)
230:10;236:22;	aiming (2) 38:14;116:19	121.17,125.14, 130:8	120:11;137:18;	12:8
230:10,230:22, 237:13;250:10	air (6)	allowance (7)	143:15;147:18;	anaerobically (1)
agent (10)	11:7;87:18;137:10,	15:10,10;19:5,6;	156:12;164:22;	146:15
210:20;211:2,7,12,	12;177:24;200:10	124:22;182:12,15	170:13;183:10;	analyses (3)
15,18,18;212:4,16,19	airflow (1)	allowed (46)	189:18;206:25	83:4;88:21;153:11
agents (2)	155:1	8:1;10:15;11:14;	ambitions (1)	analysis (9)
19:22;46:10	airport (1)	15:9,24;16:3;19:5,6,	126:9	44:19;83:2;153:18;
agnostic (1)	243:22	8;22:3;43:24;46:8;	ambitious (5)	155:6;159:11;250:15,
128:24	airtime (1)	47:10;71:18;79:25;	124:10,15;162:25;	25;251:1;252:18
ago (13)	86:8	147:25;160:25;161:4;	163:7;178:25	analyze (7)
32:17;79:21;88:12;	albicides (1)	169:22;170:4,5;	ambitiously (1)	83:5,23;153:13,15;
93:3;98:8;103:22;	203:11	177:12;183:6;193:5;	145:10	250:8;251:3,5
131:2;155:11;164:13;	alcohol (4)	198:19;200:9;206:11;	amend (3)	analyzing (1)
189:8;197:2;221:9;	11:23,25;208:12,13	207:17;208:15,15,18,	98:25;162:19;	251:4
223:2	Alectura (1)	19,19;210:21;211:20;	172:15	ancillary (7)
agree (3)	101:19	214:4,5,6;215:4,16,	amended (2)	11:20;16:2;20:12,
120:1;195:23;	alert (1)	21,21,22,23;218:17;	160:4;187:9	13,14,16;31:21
243:16	47:19	235:5	amendment (7)	and/or (2)
agreed-upon (1) 182:15	Alexander (1) 120:1	allowing (1)	159:25;185:3;	84:13;201:1
182:15 agreement (9)	algaecide (2)	200:11 allows (2)	186:16,24;215:5,7; 227:14	anesthetic (1) 33:2
79:11,24;80:17;	185:2;202:9	208:18;216:15	American (1)	Angeles (1)
111:14;112:11;	align (1)	almond (1)	48:21	163:8
	B (+)		10.21	105.0

appearances (1) 95:16 animal (28) aquatic (4) 196:25;224:24 8:5:15:18:22:19: 95:23 13:7:14:4:16:7: attention (8) aspects (3) 91:10:103:25:119:3 69:2;112:14,15,22; 24:8,13,13:26:24; appears (4) 205:11 27:10:33:3.5.21: 56:9:191:23: arbitrary (3) aspirational (3) 113:8:130:21:225:13: 202:20;214:19 39:17,21;250:24 124:11;125:9; 230:5 34:12,16:37:25: 43:16,23,24;49:17,23; Appendix (3) arcane (1) 129:11 attitude (1) 82:24;83:15;157:1 50:6,15;100:16; 82:15 assail (1) 119:16 attraction (1) 105:3:203:12,14,18; applause (2) area (14) 96:18 141:16;183:14 77:22;114:12; assembled (1) 111:1 235:3,5 animals (17) apple (3)132:22,23;133:18; 141:21 attracts (1) 9:22;13:15;15:5; 166:3;182:5,6 138:22,22;156:15; assembly (1) 211:5 applicable (3) 17:13:24:10,17:27:5; audience (1) 163:8;164:1;218:8; 117:2 31:11:76:9:241:1 30:17;34:13,16; 225:12:228:6.6 assessed (1) 92:3 42:19;46:2;49:4,16, application (4) areas (8) 8:24 Australian (2) 25;110:23;123:7 assessments (1) 105:25;106:1; 55:20;92:20; 101:19;102:8 116:21;157:6 annotate (3) 112:20;163:8;165:7; 25:21 authority (2) 231:11;252:16 17:11;227:5,6 applied (1) 167:13;228:5;231:17 assist (3) 72:25 29:24;74:16;93:23 authorizes (1) annotation (14) argument (3) apply (3) 192:25;193:7;200:8 17:6;18:25;19:15; assistance (2) 9:16 automatically (1) 39:17;40:4;46:9,16; 112:14;158:16; arguments (1) 82:22;104:18 47:7;48:10;200:24; 189:24 96:18 assistant (1) 186:12 206:19;211:14,17; appointments (1) Arizona (1) 28:2 auto-oxidation (2) 212:9 80:25 166:20 associated (5) 11:2.7 appreciate (52) annotations (3) around (56) 9:14,15;12:2;22:1; availability (11) 29:11;39:24;200:17 7:16;14:16;18:2; 16:1;27:2;29:6; 125:23 21:18;44:4;79:8; announce (1) 20:2;21:3;24:16,22; 30:17,18;32:16; Association (2) 147:4;163:10,13; 91:16 28:11;32:18;52:16, 39:11,24;42:3;48:25, 48:21;117:7 180:23;187:14; answered (3) 18,18;59:11,11,20; 25;54:9;55:20;56:8; assume (1) 213:18;217:8;229:6 142:1;145:20; 60:9;61:5;62:23;65:2, 64:19;66:1;69:20; 212:20 available (26) 196:18 18:68:6.7:71:7.13.15: 72:9:75:24:78:19: assumed (1) 21:19,21;22:7; answer's (1) 76:1:81:3:98:11,16; 81:19,23;82:6,10; 186:21 30:12,14;47:24; 171:19 83:12,15;88:5;93:6; assumption (2) 119:18:130:20: 151:22:152:13:158:6: ant (1)131:12;154:4;159:3; 96:1;114:21;119:1; 173:14:197:14 168:5,12:187:16; 36:17 160:15;194:23; 127:3,9;131:4,7; assurance (1) 188:9;189:8;205:21; 132:12;134:13; anthraquinone (4) 121:18 196:23;198:1;212:1; 210:14;212:23; 11:2,4,8,13 217:21;219:16;225:2; 180:25;182:8;191:23; assure (2) 213:11;214:11,12; anticipate (2) 226:12,20,23;230:15; 192:4,6;197:1;220:8; 50:13,13 220:3;222:1,5,16; 82:7;85:11 231:2.6:237:17: 233:24;234:4,25; asthma (1) 223:9.25 236:8,17,22,24; 251:21,23;253:14 208:25 anticipating (1) avenues (1) 93:12 appreciated (1) 237:25;238:7;242:4; ASTM (5) 94:6 antimicrobial (1) 17:19 243:19;252:14 125:21:235:16.25: average (2) 15:2 appreciation (1) arriving (1) 246:12,14 39:19;127:18 astonishing (1) anymore (5) 68:22 86:9 avian (1) 71:20;141:9; approach (3) arrows (1) 164:8 38:24 161:17;225:9;231:4 82:20;83:4;86:1 atmosphere (4) 136:6 avocado (1) 12:18;187:5; anyways (3) approached (3) **ARS (3)** 180:21 46:21;75:25;206:4 80:14;86:6;115:5 45:17;102:24;223:3 191:24;216:4 avocados (1) approaches (1) ATRA (2) apart (1) arsenic (1) 114:15 29:14 88:1 107:5 75:10,23 avoid (2) apiculture (4) appropriate (2) article (1) Atropa (1) 96:22;111:1 35:2;36:2,8;37:3 86:11:150:11 163:4 8:15 aware (8) aplomb (1) approval (1) articulate (1) Atropine (7) 7:1:40:6:111:22: 119:15 84:8 240:11 7:21;8:1,2;9:4,14, 151:23;152:1,11; 20;10:9 221:10;225:6 Apologies (1) approve (1) articulated (2) 91:19 42:5;240:9 attaboy (1) away (8) 85:5 approved (10) articulation (1) 39:13;126:10; apologize (7) 78:24 53:3;102:11;124:6; 9:25;31:19;39:8; 72:3 attack (2) 149:17;151:25; ash (5) 144:4;145:21;165:3; 61:8;84:13;121:10, 96:18:110:23 161:18;180:25; 226:8 12,16;193:6;203:9 227:2,6,10,13,16 attempt (1) 183:25;239:15 apparently (1) approving (1) aside (2) 195:1 awesome (6) 143:24 82:16 84:13:99:7 attend (1) 28:20;51:22;119:5; appear (2) April (2) aspect (4) 85:9 125:9;147:8;162:13 33:21;118:1; 17:22;84:11 50:19:94:2 attending (1) awful (3)

- Vol. 4 April 30, 2024

bad (5)

bag (4)

13:11;37:17;

126:19:144:21;

163:1

awfully (1)

244:25

	- Vol. 4 April 30, 2024
137:22	big (36)
Beltsville (1)	20:21;23:4;47:12;
102:24	57:22;58:10;71:20;
Benbrook (1)	101:24;108:14;
42:5	114:19;125:1;127:13;
beneficial (4)	130:18;131:16;
13:14;110:18;	134:25;135:15;
150:7;153:3	138:15;139:7;140:20;
beneficially (1)	143:17;145:6;153:6;
110:6	154:20;163:24;169:3;
benefit (8)	176:20;180:1;187:19;
51:10;88:21;169:8;	196:1;199:13;234:6;
173:20,23;187:25;	239:14,15;240:4;
189:3,6	244:14,18;247:2
benefits (7)	bigger (4)
25:4;166:10,10;	66:10;138:6;
168.24.169.6.238.14.	178.22.231.22

awkward (1) 136:7;156:4;241:3; 195:10 247:16 bags (18) B 120:14,17,20; 124:2,3;129:1;135:7; **B12**(1) 136:12,13;137:16; 47:22 140:22;141:5;149:10, **B2**(1) 14:150:8:178:2: 47:21 183:12;236:18 **B8**(1) **Bakersfield** (1) 47:21 164:5 balance (4) baby (2) 46:1,5;47:1;169:13 34:11;50:3 bacillus (1) balanced (2) 152:17 43:1:218:2 bacillus-like (1) balancing (1) 239:13 152:17 back (95) ban (2) 6:7,12;7:5;8:11; 144:14;182:9 12:4;28:5,7;33:3; bandwagon (1) 34:1;35:9;45:13; 64:9 banned (7) 51:18,24;57:5;67:23; 144:13;161:10; 72:5,16,24;73:10,13; 166:9;167:19;169:18; 74:5,11,22,24;75:4, 12,17,23;81:3;88:1; 170:2;194:1 89:2:90:1:97:3:98:19; barcodes (1) 117:21 99:2.8.14.15.18.21: barn (1) 101:13:108:24; 112:10:113:10: 37:15 115:20;117:24; barns (1) 37:13 120:18;121:1,9; 132:11;136:12; barrier (3) 170:23:223:15; 138:16;139:12; 142:11;144:5,8; 225:16 183:16,18,20;185:15, barriers (3) 204:6:223:13; 17:186:13:194:2: 237:25 195:5;196:3,10,16,17; 199:3:200:12:201:3. based (16) 5,9;202:3,4;207:11; 17:9;39:19;83:8; 210:3,4;213:1; 100:24;106:7;113:5; 214:23;223:19;224:9, 128:24;150:2;161:14; 16;226:21;228:13,19; 165:6;169:21;198:3; 209:5;221:20;236:17; 229:10;230:1,25; 238:3 232:5,12;237:9; 240:10;245:7;253:15 basic (3) 110:1;111:12; background (4) 62:14:114:11,17; 225:20 115:15 basically (16) backgrounds (1) 11:25;13:23;28:3; 46:1,25;49:14;76:22; 82:13 117:1;140:2;194:25; backlash (1) 205:6,23,24;207:18; 55:16 210:24;212:13 backyard (2) 111:24;154:21 basis (4) bacteria (5) 13:6;39:18;103:8; 47:6;151:15,22; 172:1 152:1:159:1 basket (1) bacterium (1) 88:16

batches (1) 122:12;129:16;243:1 89:22 battle (1) 77:16 **Bay** (5) 132:22;133:14; 138:22,22;163:8 bear (1) 27:4 beat (1) 128:19 beautiful (2) 89:4;99:21 beauty (2) 60:11;101:20 became (2) 194:4;221:10 become (4) 95:22;123:13; 134:16;249:7 becomes (4) 26:14;150:22; 161:25;223:9 becoming (2) 71:22;137:9 bedding (1) 100:16 bee (6) 34:17,22;35:2,11; 163:4,9 beef (1) 24:24bees (4) 34:17:35:11.18.21 beetle (2) 44:24,25 beg (1) 52:23 begin (2) 7:7;184:24 beginning (5) 59:8;98:20;107:17; 118:9;251:14 behavioral (1) 208:2 behaviors (1) 39:10 behind (1) 248:3 beings (2) 9:22:22:24 belief (1) 173:14 belladonna (1) 8:16 belongs (1) 247:25 beloved (1) 163:6 below (1) 186:1 belt (1)

212:15

168:24;169:6;238:14; 241:4 benign (8) 14:20;21:23;22:10; 31:16,16;190:14; 210:10:213:12 benzine (1) 208:13 benzoyl (1) 11:23 Berkeley (2) 145:5;164:16 best (12) 19:24:27:1:72:10; 87:4:90:8:96:17; 122:4:157:19:233:21: 235:21:241:7:248:5 bet (3) 155:15;213:25; 214:2 betcha (1) 66:22 better (21) 36:5:40:16:46:5: 50:15;63:14;93:1; 94:7:96:22:97:5: 125:10;157:11; 164:18;173:5,10; 179:9;180:9;234:8; 243:2;245:15;249:23; 251:9 betterment (1) 49:15 Beyond (5) 17:15:55:7:96:16; 120:11,12 bias (1) 231:5 bicarbonate (7) 186:9;213:5,8; 214:1,9,12,19 bicarbonates (1) 185:25 bicarbonate's (1) 213:19 bifurcate (1)

129:14

178:22;231:22 biggest (10) 134:22;137:15,18; 138:21;144:18; 154:13;176:19;180:5; 192:14;239:12 Bill (2) 105:19;134:9 billions (1) 248:19 bills (3) 124:8,10,11 bin (8) 127:20,20;128:22; 140:10;174:25,25; 175:1:239:8 bins (1) 241:17 bioaccumulate (1) 16:8 bio-based (1) 240:2 biochar (2) 227:11:228:16 biodegradable (4) 174:15:206:3; 242:5;247:24 biological (3) 9:24;110:11;165:16 biologically (1) 110:14 biologies (1) 229:20 biologist (1) 194:10 bio-mulches (1) 248:22 **Bioplastic** (1) 180:9 bioproducts (1) 116:5 biosolids (1) 100:25 biotech (1) 54:13 biotechnology (3)

108:9

batch (1)

55:9,20;56:9

				I /
BIPOC (1)	36:3,15;37:4,7;38:8,	22;228:15,21,24;	69:20	165:20
244:9	11;39:23,24;40:8,9,	229:11;230:4,11,14;	BPI (7)	bring (17)
bird (1)	24,25;41:2;42:1,2;	231:8,18,23;233:17;	127:3;161:8;	17:10;24:23;25:23;
158:1	43:6;44:13,14;45:11,	234:21;236:3,21;	179:20,24;231:9;	40:15;41:3;45:13;
birds (6)	13,21;48:3,4,17;49:2,	237:5,8,17;238:17,22;	246:7;250:13	52:17;59:19;85:16;
13:6,9;37:11,21; 38:3;101:15	5,9;50:16;51:6,13; 52:6,15;53:11,12;	239:1;240:6,10; 241:10;242:15;	BPI's (1) 252:13	99:1;113:1;120:25; 121:5;132:1,24;
bit (38)	54:8,17;56:1,2,7;	243:12,15;244:24;	brain (1)	243:20;248:15
9:13;18:14;21:14;	57:14,25;58:1,24,25;	245:19,22,24;246:6;	57:15	bringing (7)
23:20;25:10;30:15,	59:21;60:14;61:16,	247:23;248:14;	brand (6)	40:3;58:23;68:22;
25;40:18;41:9;42:15;	21;62:5,21,22;63:4,	249:13,25;250:3,14,	56:14,15,25;	72:23;74:5;75:4;85:3
43:7;46:11;48:10;	21;64:7;65:4,6,8,19,	16;251:12,13,19;	102:17;107:16;	brings (3)
68:24;71:11;95:10;	24;66:12,17,22,24;	252:1,6,9,21;253:17,	128:10	141:23;158:3;222:6
101:13,18;105:8;	67:1,5,7,9,11,13,15,	25;254:1	brands (3)	broad (3)
130:3;132:5;135:11;	17,24;68:1;69:24;	Boards (2)	55:13;56:14;128:10	70:4,4;236:22
137:1;149:18;150:25; 170:23;188:23;	70:25;71:1,2,9,10; 72:16,18,21;73:3,4,	71:25;93:5 Board's (2)	brand's (1) 56:14	broader (4) 17:17;18:6;75:17;
193:15;195:9;198:6;	10,11,13;74:3,4,19;	55:19;213:24	brave (1)	238:6
200:13;218:19;	75:1,2;76:3,14,18;	Bob (2)	42:22	broadly (1)
226:11,13;232:21,23;	77:11;78:11,13,15;	154:13;155:8	break (11)	202:25
235:19;246:1	79:2,3,17;80:10,21,	bolster (1)	49:8;51:23;99:16;	broiler (1)
bite (3)	22;81:11,15,20;	44:5	104:13;138:9;148:22;	38:17
36:16;234:18,18	82:12;83:3,12;84:3,5,	bond (1)	170:8;183:17,18;	broken (3)
black (4)	5;85:8,18,22,23,25;	12:5	249:7;253:6	14:1;48:9,20
64:16;134:15;	86:2,8,12,15,17;87:7,	bones (1)	breakdown (2)	brought (5)
165:10;204:8	10;88:8,18;89:4,6;	138:9	12:14;246:16	53:14;79:18;85:24;
blah (9) 90:21,21,21,21,21;	90:13,16,23,24;91:7, 17,18;92:11,19,20,22;	book (1) 156:25	breaking (1) 111:18	92:3;218:15 Brown (2)
245:2,3,3,3	93:4,8,13,13,14;	boots (1)	breaks (4)	124:12;146:14
blaming (1)	94:12,24;95:1,2,18;	218:6	12:14;13:3;31:16,	browsing (1)
37:16	96:4;97:2,11,14;	border (1)	16	203:15
blended (1)	98:14,21,23;100:13;	37:10	breathe (1)	BRUCH (26)
199:5	103:14;104:5,6;	borders (1)	200:10	27:19;28:16;29:18;
blending (1)	121:2;125:15;131:13;	118:22	breeder (1)	60:17;67:19;77:12;
199:4	141:21;142:5,22;	boring (1)	27:10	87:8,11;93:20;97:20;
blessed (1)	143:1,20;146:20,23;	77:9	breeding (4)	98:16;159:7;160:14;
92:15 blood (1)	147:11,21;150:15; 151:9;153:23;154:2;	both (31) 8:16;9:4;12:8;13:1,	102:1;220:10; 223:20;224:9	179:11;180:13; 196:23;197:18;
168:14	157:18,21;159:2;	11;25:11,25;35:19;	Brendan (1)	201:23;203:8;212:1,
blossomed (1)	161:23;162:3;165:1,	42:3;43:11;73:12;	145:4	7;217:20;219:3;
173:16	12;167:1,8,17;	85:12,17;86:6,10,18;	Brian (34)	224:20;226:7;233:11
blow (1)	170:15;171:16,21;	100:2,14;133:5,5,6,7;	6:16;22:15;27:19;	brush (3)
137:5	172:8,18;173:9;	154:6;175:12;200:8;	28:16;30:9;31:4,21;	101:19;102:8;
blowers (2)	174:11;177:7,23;	206:17,18;213:23;	34:4;37:7;48:4;56:1;	135:25
137:5,5	178:1;180:15;184:1,	217:5;233:15;243:16	62:2;67:6;68:22;75:1;	bucket (4)
blown (1) 78:17	18,23;188:14,20,22;	bother (2) 78:21;249:16	76:15;84:17;142:4, 13;146:20;147:13;	31:21;156:3,8; 199:11
blue (1)	189:12,17;190:1,6,15, 22,23;191:1,10;	bottle (3)	13;146:20;147:13; 194:20;195:23;201:5;	buckets (2)
134:15	192:11,13;193:10,22;	126:24;178:18;	205:2;207:10;210:4;	231:11;252:22
BMP (4)	194:1,15,19,21;195:7,	244:1	211:24;212:1;213:3;	buddied (1)
120:3;157:13,14,18	9,14,18;196:2,6,16;	bottlenecks (1)	217:2;242:13,14;	25:9
BOARD (381)	197:12,25;198:9,14,	92:20	243:11	buddy (1)
6:18,21,22;7:13,22,	20,22,24;199:7;	bottom (3)	Brian's (2)	25:6
23,25;10:11,14;	200:15;201:2,9,10,11,	136:5,11;138:2	22:17;162:5	budget (3)
14:15;18:18,20,21;	13,14,15,16,17,18,21,	box (1)	bricks (1)	80:8;129:4;157:8
19:16,17;20:3,13,18; 21:6;22:15;23:12,16,	25;202:5,8;203:1,6; 205:1,4;207:12,15;	239:8 boxer (1)	244:2	budgets (1) 80:20
22,23,24;24:2,15;	209:19,21,22,24;	181:23	bridge (1) 81:6	bug (2)
25:13;26:3,5,17;	210:1,4,6;212:6,11;	boxes (3)	brief (2)	158:21;243:20
27:12,21;28:24;29:2,	213:3,6;214:3,24;	135:8;177:11,19	82:4;184:20	build (3)
15,22;30:2,9;31:6;	215:3;216:22,25;	boy (1)	briefly (2)	51:7;55:11;162:5
32:10,15,19,23;33:11;	217:1,3,10;218:15,23;	30:6	49:7;101:18	building (7)
34:3,21;35:22,24;	225:5,19;226:15,19,	BPA (1)	brilliant (1)	25:15;42:11,19;

Burke Court Reporting & Transcription (973) 692-0660

(5) **BIPOC** - building

- Vol. 4 April 30, 2024

Spring 2024 Meeting		· · ·		April 30, 2024
76:15;124:21;147:3;	234:4,6,9,12	129:13;146:2;	215:12;218:6,21;	217:15
216:18	cadmium (1)	165:24;168:22	223:15,17,18;224:8;	carbon-based (2)
built (1)	107:5	Caltrans (1)	225:13;226:2,15;	131:18;132:2
220:13	cake (2)	168:5	227:15;228:23,24,25;	carbonic (2)
built-in (1)	43:9,11	calves (1)	230:6,21;231:18,19;	186:2,6
26:25	calcium (4)	34:9	236:1;237:3,9;	carbon-nitrogen (2)
bulk (3)	217:14,15,17;	came (24)	238:10,13;239:20;	157:2;158:11
92:5;139:7;178:2	218:10	21:13;30:24;37:8;	240:18;241:6;248:23;	carcinogenic (1)
bumpers (1)	Caldwell (48)	71:2;79:5;111:20;	249:7;250:20,23;	219:20
151:5	6:16,22;7:23;10:11;	118:6;126:1;127:11;	251:2,2,10;252:23,24	carcinogenicity (1)
bunch (1)	14:15;18:18,20;20:3,	166:20;184:22;194:7;	Canada (16)	213:15
127:2	13,18;21:6;26:3;	210:20;212:14;	9:8;11:15;22:3;	cardboard (5)
burden (2) 90:12;244:10	27:12,21;28:24; 29:15;30:2;31:6;	213:16;222:19; 229:17;230:11;	46:8,8;47:11;107:6; 117:12;203:17;	133:1;175:17,19; 177:17,18
burdened (1)	32:10;33:11;35:22;	251:20,21,24,25;	206:11;208:16,17;	care (4)
243:8	36:15;37:4;38:8;40:8,	251.20,21,24,23, 252:1,2	210:21;211:20;214:4;	8:2;9:9;29:8;243:8
burdening (1)	24;44:13;45:11,21;	can (195)	215:16	careful (2)
241:25	48:17;49:5;51:13;	7:8;8:5;9:5;12:20;	Canadian (2)	14:16;84:6
burn (4)	56:2;57:14;67:7;75:2;	20:6;21:15;23:1,3,17;	77:7;203:17	carefully (2)
144:16,18,18,20	142:5,22;143:1,20;	25:16;26:7;27:6;	canceled (1)	97:13;180:10
burning (9)	194:21;201:18;205:4;	29:23;31:5;34:14,15,	222:8	Cargill (1)
144:15;146:8;	210:6;212:6,11;	22;35:24;36:7,11;	cancer (1)	180:5
227:2,7,10,13,18;	217:3;243:12	38:6;40:22;41:11,12;	208:25	caring (1)
228:9,11	calendar (1)	43:1,3,18,19;44:5,11,	candidate (1)	34:13
bus (1)	189:6	24;48:25;49:1,15,24,	145:5	Carolyn (16)
126:11	calf (3)	25;50:4,14;51:4;	candy (1)	45:12;67:10;72:8;
business (6) 49:12;95:16;99:2;	26:23,23;50:3 California (50)	52:20;53:1,13;54:5; 55:18;57:4,11;58:14;	211:4 Canola (2)	74:20;78:12,12;79:2; 196:5,15;197:4;
240:15;241:6;245:11	100:19;101:5;	59:16,16;60:7,19;	40:19;205:20	225:17;226:7;237:20;
businesses (2)	103:10,19,21;111:15;	61:7;62:10;63:12;	cans (1)	239:3;245:17;247:22
141:6;242:7	112:12;116:5;121:7;	65:1;66:10;72:2;	242:8	Carolyn's (2)
butoxypropan-2 (1)	122:22;123:8,14,19;	73:17;74:11;75:22;	cantaloupe (1)	50:1;199:13
11:24	124:4,5,11;125:5;	77:1;80:1;81:10;	159:21	carries (1)
butterfly (1)	126:9,13;130:23;	83:21;85:23;86:17;	cantaloupes (1)	202:3
55:14	131:12;134:2,10,13;	87:19;88:2;90:24;	112:16	carry (1)
buttoned (3)	135:16;136:21;141:3,	92:20;93:4,9;96:2;	canvassing (1)	117:20
189:7;191:15,15 buy (8)	9;142:19,23;145:2; 146:13;147:5,14;	98:25;99:3,4;101:15, 23;102:1;106:21;	194:25 cap (1)	carving (2) 63:22;64:3
43:9,10,11;114:15;	140:13;147:3,14; 149:25;150:16;	107:5,20;108:17;	39:21	Cascades (1)
168:18;169:1,2;178:1	160:11,18;161:6;	109:15;110:17,22,23;	capacity (4)	166:2
buying (2)	162:7;163:21;164:3,	113:22,22;114:5;	84:3,5;92:20;	case (12)
128:17,18	4;165:23,25;173:18;	115:19,24;116:24;	166:10	14:7;19:12;51:14;
buys (1)	174:5;179:3;225:7;	117:16;120:11;	capricious (1)	75:18;86:9;127:9;
239:7	246:8	122:10;126:14,25;	250:25	165:25;196:9;197:6;
byproduct (1)	California's (3)	128:25;131:18;132:5,	caps (1)	210:17;227:23;241:6
190:15	142:16;143:17;	6;133:2;134:6,25;	178:19	cases (5)
by-product (5)	167:11	137:5;138:6,13;	capture (1)	64:15;166:3,5;
187:4;193:12;	call (18)	139:11;140:23;141:6,	28:10	216:13;250:22
194:2,17;195:15	6:19,19;8:14,15,25;	12;143:23;144:22;	captured (1) 175:21	cast (1) 230:21
byproducts (2) 43:23,24	10:11;11:1;18:18; 22:17;32:18;81:9;	151:16,16;152:23; 153:24;155:3;156:5,	capturing (1)	casual (1)
45.25,24 by-products (1)	110:9;120:15;174:8;	25;158:22;160:4;	176:5	57:21
187:7	196:20;215:13;	162:14;163:1;167:22;	car (1)	casualty (1)
10/./	223:16;248:25	169:2,2,12;171:1,5,	151:5	76:15
С	called (8)	14;172:15;173:7;	carbon (23)	cataloged (1)
	15:13;22:8;26:8;	175:19;176:9,25;	117:25;145:17;	230:24
C/N (14)	43:17;126:23;161:16;	177:2;178:19,19;	158:5,7,8,22,23;	cataloging (1)
152:4,6;154:9,11,	205:7;225:22	181:17,18,19,21;	165:6,10;184:9,19;	79:8
16,24;155:3,14,16;	calling (1)	184:1;186:11;187:8;	185:18,22;187:5;	catalyst (3)
156:18,20,24;157:5,	186:16	190:1;191:5;192:1;	192:3,4,6;215:1;	38:6;42:18;101:7
15	calls (1)	195:18;197:9;200:8;	227:15,18;228:11;	catalytic (1)
CACS (7) 25:15:20:3 23:	227:21 CalRecycle (4)	202:6;203:6;205:3, 19;206:10,11;211:19;	233:8,20 carbonate (1)	11:4 cetalyzing (1)
25:15;29:3,23;	CalRecycle (4)	19,200:10,11;211:19;	carbonate (1)	catalyzing (1)

12:13 catch (5) 167:15:223:17,18, 21:224:8 catching (1) 223:16 catchment (1) 167:14 categorize (1) 68:24 categorized (1) 108:3 category (6) 89:23;107:20,21, 22;143:4;171:8 cattle (5) 24:7;51:12;161:25; 162:8;248:19 caucus (2) 241:21;242:10 cause (8) 9:18:10:4:13:25: 178:20;187:8;203:22; 216:2,7 caused (1) 7:2 causing (1) 187:6 cautionary (1) 235:20 cautiously (1) 236:16 caveat (1) 207:6**CDFA (8)** 123:14,15,18,18,20; 133:4;139:1;155:24 **CEA**(1) 192:21 celery (3) 72:8,24;78:3 cell (1) 125:24 centigrade (1) 110:14 central (8) 38:2;132:22; 138:19;144:15,18; 146:8;163:5;253:21 certain (18) 40:13;71:19; 113:19;114:7;138:12; 140:23;149:7;150:7, 20;158:12;159:21,23; 163:15;173:5;175:20; 176:8,15;228:5 certainly (6) 80:19;94:25;97:8; 99:12;103:16;143:12 certification (8) 25:24:47:11:62:15: 64:1;100:15;223:24; 224:6:232:24

chaired (1) certified (17) 100:14.18:115:19: 92:1 chairs (1) 121:14;123:17;127:4; 136:13;138:12;161:5; 62:3 chairs' (1) 164:23;179:16,18,23; 221:4,22;223:14; 95:13 234:14 challenge (8) certifier (3) 102:20;204:14; 221:1 192:1;220:19 certifiers (12) challenged (1) 17:24;18:1,3;53:25; 189:5 63:7.13:64:14.18: challenges (8) 207:1;211:22;246:18; 247:7 certifiers' (1) 191:25;236:14 challenging (5) 63:17 certifier's (1) 65:12;95:20; 188:10 certifies (1) champion (2) 188:8 195:10,10 certify (1) chance (4) 187:16 22:22;132:17; cetera (6) 153:18:176:17 39:12;63:12;77:24; change (11) 157:11;218:3;234:16 **CFR** (1) 172:1 chain (2) 160:24;164:19 208:13:227:25 changed (5) CHAIR (117) 6:3.17.20:18:19: 127:18:224:12 19:18:27:19:28:16: changes (7) 29:18;51:19;52:2,5; 60:17;64:8;66:7,19, 23,25;67:2,4,6,8,10, changing (1) 175:14 12,14,16,18,19,20,20, channel (1) 23;71:4;72:4,20; 77:12;86:19;87:8,11; 180:16 90:2;91:14,16,22; chapters (1) 93:19,20,24;96:25; 103:12 97:2,20;98:16;99:10, charge (1) 139:24 20;159:7;160:14,17; 170:9;179:11;180:13; chart (2) 165:24;238:11 183:17,20,23;184:17; 188:15;189:11; charting (1) 191:17;192:12;193:9; 238:9 194:20;195:8;196:4, check (4) 15,21,23;197:18,23; 198:12,18;199:6,24; 141:25 200:22;201:4,19,22, check-in (1) 23.24:202:1.1.4: 73:20 203:4,8:207:10; checking (1) 209:18;210:2;211:24; 36:12 212:1,7;213:1; cheese (1) 214:22;216:21;217:2, 92:4 19,20;218:14,21; chelating (11) 219:3;222:22;224:20; 46:10;210:19; 225:4;226:7,21; 228:14,19:229:8; 212:4,16,19 230:8,9;233:11; chemical (5) 235:14;244:13; 12:15:108:10; 253:19 180:3;220:8,11

chemicals (4) 207:19:223:8: 239:20:240:3 chemist (1) 194:10 chess (1) 251:18 17:22;39:23;40:18; chicken (4) 87:23;127:10;140:11; 26:8,19;37:17; 42:10 chickens (3) 37:8:42:13:45:4 chicks (1) 55:4:102:12:103:8; 34:11 116:8,10:140:6; chloride (5) 219:2,7,8;225:23; 226:9 chlorophyll (2) 125:11;156:3;175:16 215:10;217:24 choice (7) 30:13:35:17.17; 192:17 choices (1) 192:8 94:17;97:12,17; choose (3) 100:20;125:9,18; 80:12,12;155:8 141:2;146:19;149:13; choosing (1) 55:13 chord (1) 94:18:96:6:97:13; 75:5 chorus (1) 68:2 57:22:68:12:94:20: chose (1) 96:6,13:98:1:160:23 97:12 chronic (1) 13:25 circle (1) 221:24 circles (1) 60:23 circulate (1) 77:19 circulated (1) 77:15 circulating (1) 220:8 circumstances (1) 22:4;36:11;47:11; 96:2 cite (1) 105:8 cited (1) 229:5 cities (2) 145:7,8 citric (5) 11:23;61:20;63:1, 10,14 211:2,7,12,15,18,18; City (1) 123:23 claim (4) 63:7:64:6:123:16; 240:25

claims (1) 211:11 clarification (5) 19:16;94:8;95:10; 162:12:252:8 clarifications (1) 151:14 clarified (1) 221:15 clarify (3) 167:1;171:13; 248:10 clarifying (2) 94:21:95:12 clarity (7) 48:25;53:12;94:6; 167:23;231:18,21; 232:6 class (4) 15:12;16:10;18:7; 205:14 46:1;174:6;191:24; classes (3) 143:15;157:4; 236:10 classic (1) 57:16 classification (4) 8:5;97:14;203:22; 214:17 classified (3) 13:21:185:5:204:3 clause (1) 16:4clean (5) 37:15;45:1;173:8; 225:10;233:17 cleaning (3) 202:11;219:23; 221:18 cleanup (2) 14:5;32:5 clear (21) 20:19;49:4;52:25; 57:20;60:25;68:16; 121:3;127:2;154:4; 165:23;173:25; 193:13,14;226:3; 232:5,15,16,23; 247:12;251:19; 252:24 clearer (1) 48:11 clearing (1) 135:25 clearly (10) 26:13;27:9;56:15; 62:13;68:24;139:3; 181:25;205:10; 226:16;252:23 clerical (1) 94:6 clients (2) 42:22;174:2

- Vol. 4 April 30, 2024

Spring 2024 Meeting	I	T	I
C^{1}	52,14,61,25,220,20	150 14 170 16 171 0	100, 10, 105, 5, 227, 11
Climate (9)	53:14;61:25;230:20	159:14;170:16;171:2;	109:19;195:5;237:11
100:20;125:9;	collaborative (2)	181:13;191:18;	commodities (5)
146:19;164:18,20;	94:13;97:4	199:24;204:14,18,20;	112:15;117:16;
198:3;239:9,13,16	colleague (4)	209:20,22;214:15,18;	118:22;159:21,24
clippings (1)	13:18;30:5;154:5;	216:9;220:17;221:1;	commodity (1)
178:8	163:20	224:2;225:20;245:13;	112:14
close (13)	collect (8)	246:6	common (10)
28:12;41:4;51:2;	75:16;98:4;120:17,	commenter (3)	15:19;21:19;36:19;
57:21;59:13;65:25;	19;124:15;141:5;	188:4;216:17;221:5	90:14;110:9;120:16;
68:17;100:17;132:10;	149:10:180:18	commenters (11)	134:12;185:23;
164:2;181:5;228:23;	collected (2)	10:6;84:3,11;	189:18;206:14
245:4		187:15,24;199:25;	
	76:11;178:7		commoners (2)
closet (1)	collecting (1)	220:25;221:7;222:8;	195:24;222:14
83:20	135:23	229:6;232:8	commonly (4)
closing (1)	collection (16)	commenters' (1)	15:4;120:13;
75:4	120:14;123:24;	83:4	205:12;210:7
club (1)	124:1,13;128:7;	comments (98)	communicate (6)
174:6	129:11,15;131:11,21;	10:5,9,10,11;14:12,	207:20,21,22,23,24;
CN (1)	132:11;134:7,10,12;	12,22;17:20,21;	208:1
120:3	135:7,20;236:18	18:17;19:20;20:3;	communicated (1)
co- (1)	collective (1)	21:7;22:5;24:16;	117:13
169:7	97:9	25:25;29:16;33:25;	communicating (2)
CO2 (21)	collectively (2)	35:18;44:8;46:12,13,	78:4;117:10
146:16;187:5,7;	25:5;234:8	14,15;47:3,4,25;	communication (3)
		51:18;53:17,24,25;	
188:1,11;189:3;	College (1)		85:2;86:20;207:21
191:1,1;193:10,13,14,	103:23	54:5;55:1;58:7,8,18;	communities (6)
20;194:2,10,16,18;	colonies (1)	65:20;69:14,15,17,19;	132:20,22;134:4,
195:11;198:1,23;	207:24	70:21,23;72:14,19;	11;140:5;244:9
200:9,18	color (4)	74:12;81:20,22;82:4,	community (53)
Coalition (1)	134:11,14;189:21;	8;83:1,6;84:16,20;	7:6;11:16;21:18;
163:21	244:10	94:11,13;96:10,23;	22:23;23:9;24:3,16,
coating (2)	colors (1)	97:4,19,21;98:8;	22;25:12,14;28:8;
116:9,11	90:6	119:12,24;120:23;	32:21;39:5,25;40:5,
Co-authored (1)	combination (4)	121:3;187:22,23;	12,17,22;44:5;50:13,
103:12	73:12;129:5;	188:2,5;189:25;	22;51:5;53:7;54:6;
co-benefits (1)	217:15;239:21	190:4,10;198:2;	61:5;64:2;69:3,15;
166:11	combinations (2)	203:3;204:19;206:15,	70:3;71:21;72:2;
co-collected (1)	116:18;181:12	17;209:6,25;210:3;	73:17;75:12,17,18;
	combined (1)		
135:17		211:21,23;214:16;	76:25;77:15;82:10;
code (1)	210:24	216:19;220:23,25;	87:16;89:2;98:3;
117:21	combines (1)	229:3,5;230:19,23,24;	104:16;117:17;140:2;
Codex (10)	9:3	232:4,15;233:21;	202:18,19,21;204:9;
9:11;11:17;22:4;	combustion (2)	234:23;243:17;	207:5;215:20;234:24;
46:8;47:11;206:12;	227:7,16	253:13	235:10;239:14
208:18;211:20;214:6;	comfortable (6)	commercial (7)	companies (6)
215:21	37:21;44:12;87:24;	115:10;136:10;	49:19;173:3;180:2,
codifies (2)	95:22;139:5;200:14	179:2,7;182:20;	2,3;220:21
94:22;95:3	coming (17)	217:8;220:13	company (6)
coffee (1)	7:5;34:24;35:7;	commercialization (1)	98:24;132:11;
176:10	49:7;58:3;72:9;77:18;	182:19	137:7;175:9;178:20;
coherence (3)	99:14;110:5;131:8;	commercially (1)	182:20
247:4,8,10	134:17;183:6,15;	223:9	compared (2)
cold (2)	190:18;209:2;239:22;	Commission (2)	159:16;206:6
190:25;191:4	241:12	93:1,2	comparison (2)
,	comma (1)	commit (3)	142:9;143:3
coli (3)			
158:8,13;166:20	94:18	63:24;144:3;181:5	compatibility (1)
coliform (1)	comment (39)	commitment (3)	53:22
108:9	17:9,14;27:13,20;	63:20;98:12;182:9	compatible (1)
coliforms (1)	28:25;33:12;38:10;	committed (2)	228:12
107:7	46:17,18;50:24;	87:3;231:7	compelling (2)
collaborating (2)	53:15;64:17;65:7;	Committee (9)	141:17;192:9
54:10;62:23	69:25;72:7;77:20;	10:5;14:11;29:3;	competition (1)
collaboration (3)	80:23;97:21;99:6;	91:6;93:5;95:6;	118:21

competitive (2) 49:12;228:3 compilation (1) 53:6 compile (1) 79:12 compiling (1) 110:3 complaint (4) 107:13:108:23; 109:3,6 complaints (2) 109:9;178:16 completed (1) 214:15 completely (3) 17:1;130:12;169:12 complex (2) 15:7;217:15 complexing (1) 19:22 compliance (5) 17:24;92:4;104:1; 157:9;175:11 compliant (8) 17:23;39:9;147:4,6, 25;177:12;178:2; 239:20 complicated (11) 29:11:36:14:57:6; 58:13,14:62:20; 82:16;89:8;133:8; 184:6;224:19 complimentary (1) 237:16 component (9) 8:16;30:18;40:11; 177:17;191:20;218:4; 224:10;234:20; 239:11 components (3) 11:13;116:2,22 composers (1) 103:7 composition (2) 100:13;115:24 compositional (1) 246:21 compost (206) 6:13;29:25;99:15; 100:1,7,8,9,10,14,18, 18,21;101:10,12,22; 102:1,6,13;103:11,21; 104:13,19,21;105:1,9, 14,17,21;106:3,5,9, 12,15;107:2,3,13,15, 17,18,21,22,23,24; 108:1,1,7;109:14,15, 20,25;110:6,19; 111:11,12;113:19; 120:2;121:5,10,12; 122:15;123:10; 126:10,13;127:7;

Min-U-Script®

- Vol. 4 April 30, 2024

Spring 2024 Meeting				April 30, 2024
129:20;130:16,17;	115:12;121:23;177:1	16:5;18:11;38:20;	cons (1)	134:24,25;239:7
131:18;132:4;133:2,	composter (7)	45:5;53:25;55:20;	238:14	consumers (6)
2,19;134:6;137:10;	115:10;127:13;	187:10;190:4;204:20;	conscious (1)	59:9,14,16;126:25;
138:3,5,14;139:1,8,	130:22;132:9,11;	206:21;210:19	43:16	131:19:139:23
10,11,19;143:11,14,	161:13;179:2	concerted (1)	consecutive (5)	contact (8)
14,19;145:12,15,17,	composters (23)	225:12	170:24;171:17,23;	45:20;109:16;
18,19;146:9,10,11;	107:3,11;121:4,6,9;	concluded (2)	170:24,171:17,25, 172:3,6	117:4,5;169:22;
147:4,6,12,13,16,17;	122:11,24;123:7;	213:11;252:19	consecutively (1)	204:21;209:1,2
148:9,19;149:1,3,9,	128:9,12;129:3,17;	concludes (3)	172:9	contain (1)
10;150:24;151:18,20;	131:10;154:23;167:7;	85:19;118:23;	consensus (1)	126:22
152:6;155:5,25;	168:9;173:24;174:1,	229:11	86:10	container (8)
156:1;157:3;159:11,	5;178:22;180:17;	concluding (2)	consent (1)	196:7;198:5,8,10,
25;161:25;162:21;	238:5;246:17	89:21;104:6	8:6	15,21;199:9;232:11
163:10,11,13,21;	composting (69)	conclusion (2)	conservation (4)	containers (2)
164:11,12,14;165:14;	100:16;103:9,10,	141:24;241:13	38:13;95:7;120:6;	134:11;135:1
166:2,8,21,24;167:5,	11,12,14,20;105:24;	concrete (1)	214:5	containing (2)
10,12,25;168:1,2,2,	106:23;107:1;109:20;	137:6	conserve (2)	10:19;12:10
12,17,17,18;169:1,4,	110:2,10;111:13,15,	condition (1)	155:12,13	contains (1)
9;170:14,25;171:3,4,	19,22,23;112:2;	51:12	consider (25)	105:11
6,15;172:7,21;173:1;	113:12;119:3,25;	conditioner (1)	17:10;18:12;40:3;	contaminant (3)
176:8,9,17,21;178:2,	120:5,7,19;121:2,22,	110:20	50:9,11;54:5;69:18;	128:6;137:15,18
15;179:2,7;180:18;	24,25;122:4,18;	conditioning (1)	85:15;88:2;89:16;	contaminants (14)
183:4,10;184:3,12,13;	129:22,22,22;132:14;	215:22	90:1;97:23;108:21;	101:12;108:4,5,5,8;
218:3;229:9,12,16,23,	133:7,14;134:2;	conditions (4)	109:5;115:7;128:6;	120:22;128:5;157:10;
25;230:7,12;233:24;	135:16;136:25;137:1,	12:9;13:1;110:14;	183:1;229:18;232:13;	174:14;176:14;
234:20,25;235:9;	9;141:3;143:15;	114:7 conducted (2)	233:14,23;235:2,3,9; 244:15	178:12,23;179:1; 241:15
236:18,22;237:3,11, 22,25;238:3,5,18,24;	145:1;146:8;148:1; 149:24;151:12;154:5,	94:2;203:24	considerably (1)	contaminated (1)
239:19;240:7,18,19,	12,15,20,21,22;	Conducting (1)	204:16	107:13
20;241:3,5;242:25;	156:19;157:1;163:3;	95:15	consideration (8)	contaminating (1)
246:20;248:5,7,16,17;	164:10;170:19;	confidence (1)	19:15;20:1;37:22;	148:16
249:2,5;250:11;253:6	173:18;174:14;	55:19	113:16;114:18;	contamination (13)
compostability (6)	175:13;176:14;	configurations (2)	199:11;202:23;	105:5,7;107:8,10,
114:23;118:8;	178:10;182:9;234:24;	110:4,16	244:19	12;108:4,18,21;
124:20;125:21;	247:24;249:11	confine (2)	considerations (1)	137:15;177:24;234:5,
148:22;161:3	compost-related (2)	38:19;39:2	236:5	16;249:5
compostable (80)	107:15;108:2	confinement (1)	considered (3)	content (5)
101:6;114:13,19;	compound (3)	39:9	13:5;114:25;219:20	107:18;109:15;
115:1,3,8,25;117:14;	13:3;22:2;108:10	confirmed (1)	considering (2)	110:18;155:2;158:5
	compounds (3)	182:20	193:16;237:7	contention (1)
16;124:2,21;125:1,13,	32:6;125:22;153:4	conflicted (2)	considers (1)	245:14
24,25;126:6,17;127:3,	comprehensive (1)	194:23;200:7	88:19	contentiousness (1)
4,13,14,25;128:4,18;	28:2	conflicts (1)	consistency (5)	60:1
129:19;130:5,5;	compromise (1)	91:18	55:12,24;232:6;	context (11)
131:1;135:6;136:6,	247:14	confronting (2)	233:5;235:7	36:4;41:12;62:19;
13;140:15,15;141:5,8,	concentration (1)	188:24;231:4	consistent (2)	63:18;85:20;115:6;
9;144:2;148:3,6,7,19; 149:14;150:9;151:4,	9:20 concentrations (3)	confused (2) 196:9;225:21	64:19;69:22 consistently (1)	126:17;198:5;226:13; 231:13;248:9
6;161:1,3,5,10,16,17,	12:6;187:9;213:13	confusing (2)	202:16	contextualize (1)
18;169:19,20;172:20;	Concept (4)	50:25;126:23	constantly (2)	55:8
173:19;174:15;	43:17;86:23;91:1,2	confusion (6)	98:6;158:25	continual (1)
176:11;180:6,23;	concepting (1)	59:2;60:24;71:12;	constituents (1)	98:13
181:14,18;182:11;	61:18	127:2;131:6;185:3	253:5	continually (1)
238:7,7,19,23;240:2;	concern (7)	congratulations (1)	constraints (2)	64:4
242:5;246:25;247:12,	24:19;113:20;	78:24	80:9,20	continuation (1)
20;249:7,10;253:5	167:2;198:1;199:25;	Congress (1)	construction (1)	229:4
compostables (11)	205:16;251:21	103:5	115:13	continue (22)
130:1;131:24;	concerned (5)	conjunction (2)	consultant (1)	17:10;24:18;39:9;
132:18;138:12;	152:10;196:7;	234:4,8	103:4	58:11;68:13;72:10;
179:14,16,18,23,24;	200:10;251:20,24	connected (1)	consumer (12)	153:2;164:10,11;
238:11;239:18	concerning (3)	35:25	44:11;54:21;55:6,	167:25,25;168:1,2;
composted (5)	16:24;45:10;165:17	connection (1)	19;56:13,16,19;	182:7;189:20;202:23,
105:10;106:21;	concerns (11)	39:22	127:19;132:10;	25;241:21;242:10;

Burke Court Reporting & Transcription (973) 692-0660

(9) compostability - continue

244:11:251:3.5 continued (3) 17:2;96:14;113:13 continues (1) 113:6 continuing (3) 44:16;45:7;159:10 continuous (1) 216:9 continuously (3) 71:15;195:20,21 contract (1) 79:23 contrary (1) 243:17 contrast (1) 13:8 contribute (1) 88:3 contributing (1) 16:18 contributions (1) 141:16 control (17) 28:5;34:22;35:2,10, 18;44:23;48:21; 185:25;202:11;204:5; 205:7,13;206:14; 208:15;213:9,20; 235:19 controlled (5) 186:11.12:191:24: 192:21:227:8 controlling (1) 210:8 controls (2) 45:2:204:13 controversial (2) 203:1:211:9 conventional (11) 30:22;34:6;136:7; 137:16:140:19; 148:15,20;173:6; 223:7;224:21;228:1 conversation (26) 23:18;40:7;42:16; 55:17;56:13;60:19; 61:3;62:6;79:18; 100:6;102:8;104:5; 141:23;186:19;189:1; 192:20;194:6;200:13; 220:4.14:222:25: 224:18;234:13;238:7, 10.24 conversations (4) 86:22,24;100:22; 220:5 conversion (3) 161:24;162:1;226:9 conveying (1) 241:4 conveyor (1) 137:22

country (10) convince (1) 181:23 convinced (1) 196:6 Cool (3) 119:23;123:22; countrymen (1) 128:19 145:7 County (4) cooperative (9) 75:6;79:11,22,24; 80:14,17;221:8; 138:19 223:12;224:2 couple (17) core (4) 69:5;154:21;160:5; 218:4 corn (2) 126:21;205:20 correction (1) course (8) 96:12 corrections (1) 44:24;96:12; 84:1 corrective (1) 238:9,11,13 178:16 cover (3) correctly (4) 105:4;125:14; 41:14;110:12; 138:10 128:21;153:24 covered (3) cost (5) 43:16;88:21; covering (1) 181:24;189:3;192:14 46:21 costs (2) covers (2) 39:3;128:17 22:9:125:25 COTTOM (1) **cow** (4) 165:3 Cotton (46) 227:11 102:14:103:6: cow-calf (1) 119:4;142:6,13,25; 34:6 143:5;144:3;146:12; **cows** (8) 147:8,12;154:3; 155:22;156:6,19; 157:20:162:11: covote (1) 165:19;167:4,22; 204:8 171:19,24;172:1; CRAF(1) 173:12:178:24; 120:1 179:19;181:13;220:7, create (6) 12;221:4,6,10,21,22; 222:3,5,10,12,12,16; creates (2) 223:15,17;224:11,21; 53:7;146:15 225:6,16 creating (2) cottons (1) 187:7;200:20 226:24 cottonseed (3) creation (2) 219:7,9:220:4 Council (5) creature (1) 103:14:111:15; 101:20 119:25;121:2;170:25 credible (1) Council's (1) 154:14 credit (1) 103:11 count (4) 59:13 121:25;123:5,6; crimper (2) 207:2 77:23;78:10 counter (1) CRISPR (2) 30:13 56:10:57:19 countries (2) criteria (4) 118:11.20

219:13 33:14;68:5;75:7; critical (6) 31:24:38:15: 121:8;124:1;127:10; 133:14:134:14: 100:21:116:21: 174:22;199:17 218:12:222:4 critically (2) 17:2;38:22 crop (19) 103:21;133:20,24; 42:9,9,23;79:8; 100:17:105:3:111:3; 112:24;186:4,4,6,22; 6:23:25:10:32:17; 191:12,16;193:19; 60:22:62:6:68:15: 200:11;203:9;207:17; 93:3:98:8:116:13: 215:5 135:12;151:13;197:2; Crops (32) 204:22;211:9;221:7; 6:14;42:6,13;43:2; 222:24;240:14 66:14;74:15;99:17; 100:2;105:4,7; 144:12;183:22,24; 105:24;154:6,7; 184:8,22;185:12; 187:17;190:11; 203:15;228:2;230:9; 231:1,15,21;232:17; 233:19;234:2,5; 235:12;237:11; 80:8;133:18;137:2 252:23;253:7 cross (2) 77:18;218:16 cross-(1) 61:24 cross-collaboration (1) 16:20:23:10:26:24: 29:22 cross-dialogue (1) 234:5crossover (1) 218:18 cross-sections (1) 8:9;42:14;142:18, 20,23,24,25;144:6 114:5 cross-species (1) 15:21 crucial (1) 221:4 Crusader (1) 44:1;64:18;84:12; 127:7 101:21;240:17;253:9 crustaceans (1) 204:3 Cruz (1) 164:16 cry (1) 50:2 102:21:174:18 crvolite (1) 229:1 **CST** (2) 6:2;254:6 cubic (1) 139:6 cultivation (2) 160:3,3 cultures (2) 151:20,24 cumbersome (1) 236:13 10:8;55:21;120:10; **cup** (3)

- Vol. 4 April 30, 2024

148:2;150:11;161:6 cups (6) 127:19:147:24: 150:5.8:177:11:180:7 curbside (1) 124:1 cured (1) 6:6 curing (1) 112:6 curious (15) 48:14;86:3;148:5, 11;152:8;174:11,17, 22;175:3;191:6; 199:18;222:9,12; 224:4;249:20 current (13) 14:12;39:16;47:7; 84:9;85:3;92:13;94:7; 100:23;185:21; 213:25;214:14; 216:19:234:25 currently (16) 10:8;19:24;29:5; 36:7,13;83:9,16,25; 90:3;177:12,14; 188:6;222:14,15; 229:1;238:5 Currier (15) 102:13:104:9.10: 171:3,18,20,25;172:4, 6.10:177:16.25: 178:5;182:14;183:3 curve (1) 191:14 customer (1) 60:7 customers (6) 50:14;59:23;60:3; 133:9;134:21;141:6 cutting (1) 100:12 cycle (3) 187:5;214:2;244:3 cycles (1) 223:2 D dad (1) 34:7 daily (1) 103:8 dairies (1) 7:4 dairy (27) 8:9;15:5;16:18,25; 17:13;18:15;22:18; 24:24;26:24;30:19; 42:13;49:14;50:22; 51:12:123:2.6:142:9.

Min-U-Script®

Burke Court Reporting & Transcription (973) 692-0660 16,18,19,19;143:6,24;

145:23;146:5;164:2,2

dais (1) 153:10:229:25; 119:6 239:23 deals (2) Damage (1) 108:13 165:4.7 **D'AMORE (20)** dear (1) 26:5;62:5;67:9; 64:6 78:15;188:22;189:17; death (1) 191:10:192:11.13; 26:15 193:22;195:9;198:20, debatable (1) 24;201:13;213:6; 200:6 216:22;217:1;240:10; debate (3) 244:24;245:22 85:15;88:2;193:4 danger (1) decade (2) 207:22 135:24:175:10 decades (5) dark (1) 83:20 103:13;133:23; darker (1) 189:22 December (1) data (13) 192:18 49:20;76:11;83:5; decide (3) 120:6,25;127:22; 150:8;199:19; 128:3:165:23:197:19: 238:23 199:23;205:16; decided (3) 213:11;224:11 date (1) decides (1) 116:16 167:24 Davis (4) deciding (1) 133:21:144:25; 150:20 164:15:166:14 decision (6) dawning (1) 54:11:131:9; 193:23 day (15) 198:4 decision-making (1) 6:4,7,9,13:18:1; 38:13:68:3:96:9: 64:19 119:2;127:12;183:21; decisions (3) 63:13;150:2,18 204:1;242:18;253:15, 19 declarations (1) days (20) 91:17 8:8.10:30:19.22: decline (1) 105:22;124:4;170:24; 227:9 171:6,17,20,20,21,23; decompose (1) 172:7,8,9;178:14; 229:22 191:13,14;233:6 decomposed (1) de- (2) 227:15 219:7,8 decomposing (2) dead (1) 110:11,15 decouple (1) 191:12 185:6 deadline (1) dedicated (1) 82:19 deadly (1) 23:5 8:15 dedication (1) deal (20) 58:2 14:8;20:24;44:25; deemed (1) 48:16;88:22;133:7; 220:2 137:11,12,20;140:1; deep (1) 143:25;150:21;165:5; 55:10 174:24;175:14; deeply (1) 181:19;215:1;223:8; 7:14 239:10;242:20 deer (1) dealing (11) 203:16 14:3;20:24;26:14; defeats (1) 65:11:131:5:132:12; 176:1 135:24;143:23; defer (1)

99:2 deferred (2) 250:15,16 deficiencies (1) 215:17 deficiency (4) 21:12;39:11; 215:23,24 defines (2) 124:20:125:21 definitely (13) 22:10:27:1:30:23; 94:13;105:6;152:16; 165:4;173:12;187:20; 190:24;218:8;220:10; 234:23 definition (9) 168:6;173:18;251:5 29:6;48:22,24; 120:2;231:20;235:2, 5.8.9 definitions (3) 109:21;231:12; 234:22 38:19;84:24;194:12 definitively (1) 194:13 degradation (4) 12:7,13;153:4; 203:25 degrade (3) 12:7;116:24;149:12 150:12:190:11:194:8; degraded (1) 9:21 degrades (3) 12:7.9:146:15 degrading (1) 32:6 degree (5) 86:5:108:19: 110:13:151:19: 240:18 dehorning (1) 50:3 deletion (1) 94:18 deliberately (1) 86:6 deliberating (3) 19:19;82:10;197:7 deliberations (1) 253:15 deliberative (1) 82:20 de-lint (4) 220:3,7;223:8,14 de-linted (5) 221:11;223:23; 224:5,15,17 de-linter (3) 220:13,16;224:3 de-linting (3) 220:9;221:6;223:4 delist (1) 46:15

delisted (2) 206:16.19 delisting (3) 17:4:22:8:211:23 de-listing (1) 221:23 deliverables (1) 80:16 delivery (1) 28:20 demand (6) 7:8:118:18:134:2; 225:10:228:7:241:1 demands (1) 84:5 democracy (2) 60:12;253:8 demonstrate (1) 55:18 demonstrating (1) 106:14 demonstrators (1) 203:11 denominator (1) 189:19 density (1) 128:25 deny (2) 250:20,23 de-packager (7) 128:10:136:11,15, 21.22:137:21:181:20 de-packagers (1) 128:11 de-packaging (1) 136:20 **Department** (2) 79:12:167:11 depend (1) 118:19 depending (2) 110:16;112:23 depends (1) 158:4 deployed (2) 208:11;209:4 depth (2) 43:13;64:11 derived (3) 205:19;217:8; 227:10 describe (4) 94:7;96:22;124:8; 178:11 described (2) 32:4;110:3 descriptions (1) 84:9 designed (3) 93:22:117:23; 125:23 designs (1) 137:7

desirable (1) 125:23 desire (1) 83:2 despite (1) 36:22 destroyed (1) 113:21 detail (5) 17:20:50:23:188:3; 190:12;226:11 details (10) 32:25:74:17:92:10: 109:16:113:15; 222:24;223:11;224:1; 229:18;237:18 determination (2) 166:13;252:15 determine (3) 113:18;114:4; 118:12 determined (1) 53:20 detour (1) 164:21 develop (5) 79:25;85:12;88:1; 174:15;220:21 developed (11) 82:22:85:16; 100:25;111:8,9,16; 112:14:113:3:116:23: 168:19:245:1 developing (3) 92:14;116:8;223:4 **Development (15)** 6:11:36:8,10:45:18; 80:1;82:2;87:3;91:15, 22;102:19;104:1; 109:24;113:11; 117:18:225:12 developments (3) 54:24;118:17; 222:18 devices (2) 114:3;115:22 de-wetting (1) 116:11 Dewey-Mattia (14) 102:14;103:17; 130:14:131:16; 145:22:148:13: 155:20,23;156:7; 160:23;162:2;169:17; 172:24;175:5 diagram (1) 110:1 dialing (1) 156:23 dialogue (2) 72:2;234:20 dials (1) 190:20

Min-U-Script®

diehard (1) 22:16 diet (4) 40:13;43:15,20,24 difference (6) 59:24;60:24;148:3; 187:19;191:8;196:1 differences (2) 109:21;208:10 different (76) 18:4;22:22;41:17; 42:12,23;43:11;54:6; dip (2) 60:2;68:7;86:17;90:2; 104:22;105:1;106:3; 108:2;109:24;110:4, 4,7;111:6,11,16; dips (5) 112:10;113:2,3,9,17, 21,23;114:6;115:19; 116:17;117:10; 121:15;123:7;126:20; 127:5;134:10,11,12; 135:13;137:14,20; 143:8,9,10,18;144:11, 12,12,20;152:22,24; 153:9,16;155:25; 156:14,16;162:14,14, 15,18,19,19;167:12, 14;171:22;199:10; 202:18;203:10;208:3, 20;219:13;241:12; 249:19;250:5 differentiate (1) 136:6 differently (2) 144:22;149:15 difficult (3) 83:1,17:112:17 difficulty (1) 83:22 dig (1) 70:17 digested (1) 146:18 digestible (2) 28:22;78:7 digestive (2) 21:13;47:6 digging (1) 74:16 digits (2) 189:4,5 dihydrate (5) 34:2,19;35:1,10,16 diligence (1) 65:3 diligent (1) 58:15 Dilip (3) 65:5;66:23;151:8 dimension (1) 69:20 diminished (3) 75:8;76:16;90:13

discussion (37) **DIMITRI** (14) 45:13:67:11:73:4: 25:23:29:19:52:9: 53:10,11;66:6;69:10; 79:3,17:80:21; 196:16;201:14; 81:16;82:2;85:21; 225:19;226:15;237:8; 89:15;91:6;95:15,17; 238:17,22;247:23 96:25;100:3;102:5; dioxide (7) 104:6;131:6;135:4; 184:19:185:18,22; 139:16:140:14,17; 192:3,4,6;215:1 150:6;184:4,10; dioxide's (1) 204:4;216:8;219:23; 184:9 230:1,7,13;231:14; 232:2;233:25;234:13; 15:5;16:17 238:8 diplomatic (2) discussions (5) 61:21;86:3 10:5;42:3;188:14, 23;209:5 15:1,25;16:2;19:5,9 disease (6) 45:4;202:11;205:6, direct (4) 16:21;53:9;177:8; 13;213:9,19 216:23 diseases (1) directed (1) 44:24 dishwashers (1) 81:19 direction (16) 243:22 disinfect (1) 36:25;211:13,19; 223:6;231:15,15; 13:12 232:5,16,19;234:2; disinfectant (8) 235:12;240:5;241:16; 10:22;14:25;15:3; 244:6;252:10;253:1 21:10:31:10:185:2; directions (1) 202:10;203:20 disinfectants (1) 86:17 directly (4) 10:18 109:22:143:13: disinfecting (1) 171:12:248:12 10:19 **Directors** (1) dispensable (1) 103:14 208:23 director's (2) dispenser (1) 45:16:73:6 209:1 disagreement (1) dispensers (4) 208:16,19,22; 252:11 209:10 disappears (1) 14:21 dispensing (1) disastrous (1) 204:6 disproportionate (1) 243:19 discard (2) 244:10 8:9;146:3 disgualify (1) discarded (2) 173:22 132:3;149:23 disrupt (1) discernible (1) 55:5 112:3 dissecting (1) disclose (1) 32:20 56:10 dissection (1) disclosure (1) 230:19 54:20 distillate (1) discovery (2) 205:22 57:10,12 distillates (1) 205:9 discuss (3) 13:18;99:1,3 distinct (1) discussed (4) 19:4 120:23;194:11; distinction (5) 200:25:229:17 26:16:108:16; discussing (4) 127:19:131:14.15 24:2;25:16;61:9; distinguishable (2) 125:22;148:8 65.11

distinguishing (1) 148:7 distracted (1) 87:2 distributed (1) 112:9 distribution (1) 78:10 districts (1) 137:10 dive (4) 62:25;94:11;96:9; 102:9 diverse (5) 42:18;43:2,4;82:13; 138:25 diversion (1) 145:6 divert (7) 139:19;140:7; 146:6;151:1;162:25; 163:1:165:17 diverted (1) 136:19 diving (1) 212:2 docket (6) 82:1,5;87:16,18,25; 88:6 doctoral (1) 145:5 document (15) 19:24:53:10.14; 66:6:68:11:69:11: 70:24;82:2;89:16; 93:8;184:4,11; 213:22;232:2;234:13 documentation (2) 215:23,24 documented (3) 213:16;215:17,19 documents (4) 52:9;68:5;95:15; 212:15 dollars (5) 128:17;133:7; 175:8,13;176:22 dolomite (3) 216:12;217:10,14 domain (1) 80:18 domestic (2) 44:5;225:16 domestically (1) 225:14 done (40) 18:5;25:19;26:10; 28:9,17;31:3;52:17; 62:8;68:19;69:4,7; 72:7:75:20:76:7: 91:11;94:4;116:25; 119:23:121:16; 127:24:144:14:

148:21:152:5.7; 153:8:154:10:164:16: 168:20;175:13;181:3, 11;184:12;192:18; 213:24;230:3;234:1; 242:25;247:10; 250:22.25 double (3) 36:11;189:3,5 doubled (1) 30:10 doubt (1) 147:9 **Doug** (14) 102:13,15,16,18; 104:7,9;159:9; 170:15,15;171:1; 177:8;182:3,24; 233:15 dove (1) 221:13 down (31) 12:14;13:3;14:1; 30:10:31:16.16: 32:25;39:3;52:20; 57:15;60:7;104:13; 111:18;136:11;138:9; 145:17;148:22; 163:11;181:4;182:14; 186:3;196:22;198:9, 14,15;212:2;227:13; 240:11;245:9;249:7; 253:6 downgrades (1) 244:2 downtown (2) 242:4,7 **DPA** (1) 70:6 Dr (32) 42:5:79:15.20:88:9: 89:10;102:13,23,23; 109:17,18;116:5; 117:4,8,13;118:1; 123:15;151:15; 152:10;154:1,5; 157:22;159:20;167:9; 172:11;181:2,3,10; 182:18,19;249:24; 251:25;252:3 draft (2) 53:6:202:12 drains (1) 167:16 dramatic (4) 125:18;147:6; 192:19;194:14 dramatically (1) 129:12 draw (2) 29:4;90:10 drawn (1) 208:5

	-	Vol.	4
April	30	, 202	24

Spring 2024 Meeting		Γ		April 30, 2024
dream (1)	55:2;96:11	75:6	embarrassment (1)	enhance (1)
180:25	earthling (1)	EEC (4)	242:4	111:3
drew (1)	60:4	22:3;46:8;47:11;	embrace (1)	Enjoy (1)
		22.3,40.8,47.11, 206:11	93:4	
65:24	earthworms (2)			183:18
dried (1)	210:25;211:1	effect (2)	emergence (1)	enjoyable (1)
112:7	easier (5)	156:17;219:21	155:7	99:12
driest (1)	63:17;79:23;154:3;	effective (8)	emergency (1)	enlightening (1)
92:2	202:6;238:18	32:5;35:12;43:15;	24:20	151:11
drift (1)	easily (3)	206:1;207:8;211:12,	emissions (3)	enormity (2)
204:20	112:3;148:3,8	17;229:6	139:13,20;239:13	54:24;55:6
drill (1)	East (1)	effectiveness (2)	emphasis (2)	enormous (3)
197:16	167:10	212:5;213:19	40:22;51:4	144:9,9;242:5
drinking (1)	eastern (2)	effects (4)	emphasize (1)	enough (30)
127:5	166:4;229:14	114:7;187:6;	9:25	29:12;32:25;42:21;
drip (1)	easy (2)	194:13;213:15	employees (1)	50:4,5;55:15;59:13;
186:7	59:19;125:3	efficient (2)	95:8	78:19;90:10;98:24;
drive (5)	eat (1)	92:17;218:1	enable (1)	105:17;118:18;119:9;
126:11;163:11;	45:4	effort (7)	37:20	138:10;145:18;147:6;
168:15;240:20;241:7	eaters (1)	16:12;52:17;64:5;	encourage (6)	165:19;173:20;175:5,
driver (1)	165:16	92:3;93:15;94:13;	19:25;55:1;71:25;	6;179:5;182:17;
146:19	eats (1)	240:21	72:11;117:4;228:17	184:14;189:8;192:9;
drivers (1)	239:7	efforts (1)	encouraged (1)	196:18;197:22;218:8;
245:5	EC (1)	60:18	39:20	227:21:240:3
driving (1)	211:20	eggs (6)	encouraging (2)	· · · · · · · · · · · · · · · · · · ·
241:1	echo (7)		182:23;223:6	enrich (1) 46:25
		26:8,15;38:4;88:16; 101:22;102:2	end (37)	
drop (2)	22:17;51:19;64:14;	eight (1)	7:12;14:2;29:12;	ensure (8)
186:1;191:2	65:8;130:15;217:21; 242:24	187:22	30:6;65:20;81:21;	92:17;93:25;95:13,
drug (1)	echoing (1)	either (15)		18;100:23;101:9;
8:5 dawy (2)	65:1	21:15;25:5;85:13;	109:12;111:2;115:25;	107:11;113:20
dry (2) 114:8;143:16	eco (1)	129:20,21;130:6;	129:2;130:23;131:20;	ensuring (2) 22:23;92:23
	127:4		132:14,25;133:7,9;	
due (3)		142:11;153:7;164:9;	136:19;138:8,17;	enter (2)
100:5;164:17;	ECO2mix (1)	170:21;173:20;	139:9;141:6,13;	224:18;249:11
220:22	185:17	179:22;205:25;	148:19,20;149:8,20;	entering (1)
dunk (1)	Economic (3)	217:17;224:22	150:10;153:11;157:9;	54:24
48:1	11:16;215:20;	elaborate (1) 62:9	158:10,11,14;173:6;	enters (1)
during (13)	220:21		184:11;241:20;	187:4
15:3;33:2;93:9;	economist (1)	electrolytes (1)	253:14,19	entertain (1)
129:22;151:25;160:6;	226:5	90:4	endangered (1)	18:17
214:1,8;220:14;	ECS (1)	element (3)	44:20	enthusiasm (1)
221:15;245:21,25;	137:7	16:24;105:5;218:11	endeavor (1)	249:9
251:12	EDDHA (1)	elementary (1)	84:12	entire (3)
duties (2)	46:10	229:18	endeavors (3)	49:14;91:12;195:14
95:12,13	Edgar (1)	elements (1)	102:1;110:7,8	entirely (1)
duty (1)	163:21	29:24	ending (1)	242:9
63:5	edge (1)	elevate (1)	183:4	entirety (2)
dwarfed (1)	100:12	82:9	endless (1)	83:8,24
123:1	edited (1)	elevating (2)	77:7	entities (3)
dwarfs (1)	154:15	70:1;77:16	endorsement (1)	54:10;97:6;103:5
142:19	editorial (1)	eliminate (1)	97:16	entity (1)
F	163:9	153:19	enforce (1)	84:12
${f E}$	edits (1)	else (23)	46:19	entrants (1)
	94:6	9:20;13:20;26:1;	Enforcement (1)	128:11
ear (1)	EDTA (4)	38:6;40:2;65:21;69:4;	7:7	envelope (1)
79:6	46:9;210:19,23,24	87:11;121:4;130:15;	engage (2)	150:25
earlier (7)	educated (1)	163:3;167:20,20;	92:3;93:10	environment (21)
8:18;46:3;115:2;	246:15	174:4;177:8;195:6,	engaged (5)	9:20;10:3;12:12;
147:13;177:10;200:4;	education (5)	12;216:3;228:19;	53:4,10;54:9;	14:4;16:5;18:15;
241:24	25:23;43:12;	242:9,13,17;243:7	251:22,23	31:17;32:7;44:2,2,10;
early (6)	103:17;104:17;140:4	else's (2)	engagement (2)	53:22;76:7,8,10;
27:15;74:7,9;99:10;	educational (2)	161:8;163:19	54:18;55:3	170:1;192:21;195:16;
124:4;186:16	102:19;133:9	embarrassing (1)	engaging (1)	203:23;213:12;
Earth (2)	educator (1)	59:3	92:25	219:21

- Vol. 4 April 30, 2024

Spring 2024 Meeting				April 30, 2024
environmental (23)	establishes (1)	6:3,5;7:18;15:17;	excluded (9)	expertise (4)
9:14,18;12:1;22:2;	247:19	42:10;52:2,7;65:21;	47:15,20;54:12,21;	32:24;43:13;
33:16,22;38:20;	ester (1)	69:9;99:20;104:24;	57:9;58:13;60:19;	159:10;170:24
44:19,21;45:2;46:4;	208:14	125:25;130:15;	65:12,23	experts (3)
102:25;103:2;113:11;	esterification (1)	163:12;183:17,20;	exclusion (1)	83:13;84:25;230:22
114:7;175:11;187:3;	9:6	184:1;195:6;253:20,	64:19	explain (4)
203:25,25;208:25;	esters (2)	21;254:4	excrete (1)	59:2;60:1;124:19;
219:19;228:10;	35:7,14	everyone (13)	9:23	190:25
239:15	estimate (1)	7:22;24:20;52:17;	excreted (1)	explained (1)
environmentalist (1)	203:24	55:1;100:21;102:8;	9:23	16:3
239:6	estrogenic (1)	104:9;124:13;127:1;	excretion (1)	explaining (3)
environments (1)	16:9	170:9;226:4;230:5;	9:22	55:6,8;159:3
246:22	estuarine (1)	238:19	excuse (5)	explanation (1)
envisioned (1)	103:2	everything's (1)	27:17;50:5;155:18;	226:24
117:20	et (6)	90:11	191:14;227:22	explicit (4)
envisioning (1)	39:12;63:12;77:24;	everywhere (5)	execute (1)	45:14;46:9;235:22;
178:25	157:11;218:3;234:16	76:19;124:13;	87:20	252:15
enzymes (2)	ethoxylates (7)	134:12;170:1;245:2	executed (1)	explicitly (6)
61:20;62:12	15:13;17:12,17,18;	evidence (1)	33:8	9:11;11:17,18;18:9;
		210:23		120:13;219:15
eOrganic (2)	18:6,6;19:4		executing (1)	
75:10,23	EU (4)	evolved (1)	37:25	exploit (1)
EPA (15)	114:25;118:7,11,20	42:15	exempt (1)	207:25
13:21;31:19;83:14;	Europe (3)	evolves (1)	205:14	explore (2)
84:8,9,13;85:2,3,4,14;	74:13,17;180:9	235:19	exercise (2)	17:19;234:2
111:10;203:21,24;	European (7)	evolving (2)	63:14;236:19	exporter (1)
204:3;205:13	9:10;11:16;114:22;	64:5;65:2	exhaust (2)	222:11
EPA's (2)	180:9;208:18;214:4;	exactly (11)	145:9,11	exports (1)
89:24;100:24	215:20	20:11;32:20;87:5;	exhibit (1)	114:20
epsomite (1)	evaluate (8)	107:23;123:12;127:1;	16:9	exposed (1)
215:13	54:2;63:4;83:7,24;	144:6;180:19;212:24;	exist (4)	110:12
equipment (2)	98:9;111:17;191:11;	240:25;242:17	70:4;161:6;176:16;	exposure (2)
10:20;128:23	247:17	examination (1)	235:22	13:8;82:13
Equity (3)	evaluated (3)	25:20	existed (1)	exposures (1)
93:1,2;244:8	90:14;98:2;253:9	examined (1)	222:13	187:8
equivalent (1)	evaluating (4)	113:13	existing (3)	express (1)
74:12	56:22;197:3;	example (4)	124:21;131:3;236:2	204:24
equivalents (1)	232:25;246:19	29:23;92:21;93:4;	exists (3)	expressed (2)
74:14	evaluation (3)	109:14	29:5;161:14;216:3	197:5;216:9
Erin (1)	30:25;54:15;158:10	examples (4)	expand (1)	extends (1)
78:2	evaluations (1)	72:25;106:8,22;	233:13	76:19
Erin's (1)	64:2	108:20	expanding (2)	extension (6)
61:1	even (36)	excellent (4)	38:25;134:1	75:6,7,23;76:16;
errant (1)	32:21;37:2;50:12;	15:2;20:18;80:21;	expect (6)	80:25;122:11
110:24	57:18,21;58:21;	122:2	38:4;124:18;	extensive (1)
especially (11)	75:10;80:4,12;83:17;	except (1)	127:18;163:2,2,13	118:3
9:17;27:4;64:15;	102:5;123:1;127:20;	227:7	expectations (1)	extent (3)
			59:17	
65:22;79:11;120:16; 163:7;175:22;186:7;	135:16;136:13,18; 139:2;144:1;157:23;	exceptions (3) 84:8,10;85:15	expected (1)	143:17;158:4; 163:16
207:19;227:24	164:13;166:1;180:20;	exchange (1)	12:6	extenuating (1)
essence (1)	184:21,21;189:8,24,	78:5	expecting (2)	96:1
213:21	25;193:2,16;197:5;	excipient (5)	158:3;190:17	external (1)
essential (8)	199:18;206:8;208:5;	15:10,10;16:3;17:8;	expensive (2)	79:25
24:6,24;46:13;	210:17;229:22;	19:6	89:1;133:12	externalize (1)
206:20;212:16;	238:22	excipients (11)	experience (5)	85:23
214:13;219:9;222:2	evening (1)	15:8,9;16:6;19:8,	39:14;62:22;75:10;	externalized (1)
essentiality (4)	158:2	11,22;20:6,21,23;	187:18;192:15	53:11
189:13;194:24;	event (2)	31:21;34:21	experienced (1)	extra (5)
197:20;213:18	31:22;214:25	excited (8)	7:12	57:17;61:18;64:10;
essentially (5)	events (2)	7:18;22:18,18,19;	experiences (1)	239:20;240:3
21:23;22:10;94:5;	131:5;212:21	37:11;50:10;71:22;	94:25	extraction (1)
124:12;221:24	eventually (2)	230:6	expert (4)	8:24
establish (1)	119:23;197:15	exclude (3)	85:1;99:25;103:4;	extracts (1)
231:21	everybody (21)	16:13;17:7,12	104:16	9:7

- Vol. 4 April 30, 2024

Spring 2024 Meeting	1			April 30, 2024
extraordinary (2)	fall (16)	fast-forwarding (1)	51:20;56:19;58:25;	149:15;150:1;160:18;
50:3;61:2	14:11;17:11;34:15;	214:14	59:3;68:16;72:4;97:5;	161:13;176:5,25;
extremely (3)	40:4;47:24;72:22;	fatal (1)	139:5;145:20;174:20;	242:22
36:14;73:5;147:1	82:1,7,19;85:11,17;	166:15	179:16;200:14;	figured (2)
exuding (1)	88:4;146:21;185:4;	fate (1)	225:24;241:13,15,23;	49:15;135:10
158:25	188:5;217:6	32:7		figuring (2)
	falls (1)	52.7 fats (1)	244:22;246:14;249:3; 252:22	177:3;228:2
eye (2) 50:2;90:5	138:5	15:25	feeling (4)	fill (2)
· · · · · · · · · · · · · · · · · · ·	false (2)	fault (1)	71:12;200:7;243:8;	92:22:156:3
eyes (1) 25:8	96:18,20	37:18	244:24	92.22,150.5 filled (1)
23.8	familiar (3)	favor (10)	feelings (1)	133:25
F	34:17;85:3;106:20	14:12;22:5;46:14;	53:2	filling (1)
Ľ	family (5)	47:3;187:23;206:16,	feels (3)	242:8
face (3)	8:14,25;59:4;	22;211:23,23;214:17	18:24;195:6;198:5	film (1)
119:15;166:12;	154:20,20	FDA (5)	fellow (4)	138:1
235:15	fan (1)	31:19;48:5;49:4;	65:8;82:12;141:21;	filter (2)
facilitate (3)	127:14	57:2;112:18	180:15	57:15;109:15
12:18;97:4;100:3	fans (1)	fear (2)	felt (4)	final (6)
facilitating (1)	192:18	166:7;190:13	39:1;55:14;61:16,	111:7,17;118:7;
95:4	fantastic (2)	feasible (2)	20	148:21;160:12;
facilities (19)	45:21;168:16	89:13;149:2	females (1)	178:14
122:18;123:4,5;	far (11)	feather (1)	101:23	finalized (2)
126:4;127:6,25;	12:19;21:20;33:22;	39:12	fenbendazole (6)	43:20;93:2
129:19;130:22;132:8,	48:11;145:12;152:10;	feature (1)	22:14;23:2,25;26:4,	finally (1)
25;133:5,6,20;134:3;	181:12;190:12;	115:18	5:30:11	176:12
148:2;150:20;162:22,	202:13;228:10;	features (2)	fermentation (3)	financially (1)
25;223:14	243:21	113:2;115:16	39:6;54:23;64:23	51:10
facility (16)	fare (1)	February (1)	ferret (1)	find (25)
100:14,18,19;	118:10	53:1	206:8	15:16,19;17:22;
103:20,21;116:5;	farm (16)	fecal (4)	ferric (4)	34:14;42:16;56:18;
133:11,22,23;137:22;	16:22;38:16;63:9;	25:17,20;107:7;	210:4,7,9;211:11	70:13;78:7;81:2;
140:4;162:22;223:3,	75:12,17;76:8,10;	108:8	fertility (3)	113:7;154:16;158:12;
23,24;224:5	123:5;129:9,9;139:3;	fed (3)	162:20;169:12;	172:19;197:19;
facing (2)	154:22;164:6;180:18;	43:25;46:1,6	218:2	199:22;207:23;
55:4;93:8	189:2;239:14	federal (7)	fertilizer (1)	211:14;218:12;
fact (11)	farmed (1)	50:18,18;55:2;93:5;	105:10	220:15;228:12;
46:4;127:24;	218:10	95:6;101:6;107:24	fertilizing (1)	230:21,21;231:3;
128:11;145:13;192:3;	farmer (6)	Federation (1)	215:22	239:18;249:10
193:10,16;194:24;	28:22;44:11;76:5,	214:7	few (22)	finding (3)
208:25;213:17;216:3	22;169:1;221:7	feed (21)	7:4;11:17;46:15;	22:18;178:18;
factor (6)	farmers (24)	34:10;39:3,9;42:4,	49:12;56:3;68:19;	207:22
147:5,10,16;	25:2;75:24;76:21;	9,12,19,21,25;46:1,	81:25;84:23;94:11,	finds (3)
161:24;162:8;210:25	77:21;78:4,10;	25;48:21,25;49:1;	16;97:25;104:23;	73:24,25,25
factored (1)	101:10;104:22;	88:14,19,20;227:19;	106:8,22;116:7;	fine (10)
189:25	163:12,12,12;168:11;	251:10,15;253:7	197:20;204:15;	13:24;27:19;74:19;
factors (1)	196:11,18;204:23;	feedback (17)	208:24;223:18;224:8;	120:10;126:9,15,22;
237:23	206:15;217:22;	19:21;21:17;53:6;	247:23;250:22	155:17;179:5;200:12
facts (2)	218:13;220:3;221:10,	70:24;72:11;76:6,11;	fiber (2)	finger (1)
224:12,18	13;223:15;245:8,10	82:25;87:16,19;	27:11;169:21	172:18
faculty (1)	farmers' (1)	94:25;95:3;96:11;	fiber-bearing (1)	finish (3)
80:24	76:25	98:13;148:11;250:12;	27:9	152:25;183:21;
Fahrenheit (1)	farming (2)	252:25	Fibromyte (1)	198:12
151:19	34:5;77:23	feedstock (6)	200:5	finished (11)
fair (5)	Farmland (4)	130:2;156:11;	field (2)	107:3;110:5;155:5,
86:11;143:11;	38:14,15;145:8,12	178:6,9;233:23;	16:21;154:18	25;156:1,17,17;
163:14;182:17;	farms (7)	236:18	fight (1)	157:5;179:1;229:23;
213:23	18:15;32:1;121:15;	feedstocks (7)	245:10	233:24
fairly (7)	147:18;166:3;234:17;	106:19,23;107:1;	fights (1)	finishing (1)
15:17;18:4;51:9;	249:5	135:12,13;147:19;	154:13	157:15
69:14;95:20;135:14;	fascinating (1)	156:2	figure (15)	fires (1)
145:2	228:16	feel (27)	42:25;64:22;72:1;	135:24
fake (2)	fast (1)	14:9;23:17;24:23;	86:25;87:6;128:20;	first (40)
108:25;109:2	119:19	31:2,24;44:3,12;	134:20;139:24;	7:21,25;9:15;22:7;
	1	1	1	1

- Vol. 4 April 30, 2024

Spring 2024 Meeting		· · ·		April 30, 2024
26:6;27:14;37:10,15;	234:14,15	6,10	18:8;63:11	67:23;76:14;78:11;
38:18;41:1;52:20;	focused (3)	food-adjacent (1)	formulas (2)	84:18;87:8;170:10;
53:6;66:8;71:2,9;	69:25;71:8;213:17	128:14	17:23;63:18	172:14,16;193:9;
87:19;91:15,16;92:1;	focusing (4)	foodborne (3)	formulated (1)	194:1,15;200:14;
94:21;100:7;102:16;	6:25;94:19;146:17;	112:16;115:21;	209:12	202:13;207:13;
103:22;119:10;	215:6	159:23	formulations (6)	202.13,207.13, 209:20;216:22;217:3,
120:17,18;142:3;	folks (37)	fool (2)	15:9,12,20;17:7;	20;245:17,22
147:3;151:10,14;	13:23;18:17;22:18;	245:2,13	116:17;126:21	Frankling (1)
159:8;160:24;175:6,	25:17;32:18;42:2;	foot (2)	formulator (1)	215:1
23;182:1;184:22;	49:14;50:21;52:19;	189:17,19	85:7	Franklin's (1)
192:14;212:10;	59:1;62:15;73:1;	footprint (1)	formulators (1)	197:25
234:14;238:11	77:18;78:8;82:9,20;	117:25	83:14	freaked (1)
fish (2)	83:17;96:20;99:6;	footsteps (1)	forth (2)	62:17
13:8;206:8	100:4;104:3;123:6;	101:14	52:17;53:14	free (5)
fit (2)	132:9;135:25;139:24;	forage (1)	fortunate (3)	12:17;34:8;46:1;
133:18;188:25	150:13;176:23;	46:17	73:5;133:11;154:7	125:21;169:3
fits (1)	178:17;193:14;	force (1)	forums (1)	frequently (2)
179:8	199:19;209:2;216:12;	95:20	70:7	98:7;154:19
five (16)	232:8,12;236:8;	forcing (1)	forward (27)	Fresh (1)
22:5;43:17;46:14;	243:10;245:16	169:5	7:8;17:11;18:13;	117:7
47:3;93:12,13;123:4;	follow (8)	foreign (2)	24:23;28:14;29:14;	Fresno (2)
137:14;143:7;161:9;	13:23;65:21;	178:6,9	36:22;40:3,9;47:25;	163:4,9
171:22;172:9;180:25;	101:13;143:15;	foremost (1)	58:23;63:3;65:2;	friendly (1)
199:16;252:4,4	180:12;189:11;190:1;	100:8	68:23;69:4,4;75:21;	239:10
five-gallon (1)	232:22	foreshadow (1)	85:17,24;88:19,20;	friends (5)
156:3	followed (1)	234:12	91:6;141:3;211:19;	25:2,3;37:16;55:2;
fix (4)	11:7	foreshadowing (1)	217:5;235:12;247:11	166:13
76:21;191:1;	following (6)	29:1	fossil (2)	front (7)
233:18;245:6	30:19,21;171:2;	forget (2)	198:3;244:3	26:6;30:17;31:3;
flaming (1)	177:10;178:16;	24:25;35:6	found (5)	55:17;63:7;119:10;
220:9	230:18	forgiveness (1)	49:10;145:7;	246:15
flat (2)	follow-up (4)	52:24	197:19;213:15;	fruit (16)
62:9;80:8	99:5;177:23;	forgiving (1)	220:24	115:9;116:14;
flexibility (1)	179:12;182:3	156:20	foundational (3)	123:3;140:22;150:7;
235:25	food (106)	forgot (2)	68:5;100:11;213:22	180:16,19,24;181:14,
flies (1)	20:8;22:25;37:23;	73:1;91:16	four (16)	20;182:8,9,11;
158:1	42:8;44:22;48:11;	forks (1)	7:3;12:10;19:5,7;	205:12;216:11;
flip (2)	49:12;54:14,24;55:7;	180:7	78:25;127:5;141:13;	231:19
132:14;176:13	56:9,22,23;70:20;	form (5)	179:4;186:3;187:23,	fruits (1)
flock (4)	73:7;74:16;82:22;	11:11;15:1;152:18;	23;194:25;195:1;	114:14
38:19;39:2,20;	92:14,15,23;102:25;	185:25;212:22	199:16;203:10;	frustrating (1)
101:23	106:22;112:19;	formal (3)	232:10	127:14
floor (1) 25:24	121:23;122:1,5,11;	37:3;109:5;250:20	four-legged (2)	frustration (1) 82:9
Florida (1)	123:1,24;124:12,15, 24;125:18,24;126:5;	formally (3) 30:16;61:8;72:22	25:2,3 fourth (1)	62.9 FSMA (1)
218:10	127:25;128:6,25;	formation (1)	31:20	112:19
flow (2)	127.25,128.0,25, 129:2,2,11;131:20,23;	12:19	fox (1)	fuel (2)
16:19;240:17	133:19;134:4;135:2,	formed (1)	158:1	198:3;244:3
flowers (1)	8,17;136:1,2,9,16,17,	235:15	fraction (1)	full (20)
215:11	23,23;137:11;139:19;	former (1)	138:14	6:7,9;36:3;47:1;
fluctuating (1)	140:7,10,18,23;141:7;	170:9	frame (2)	53:11;54:6;61:11;
7:2	142:10;143:7;145:6,	formers (1)	19:20;182:24	66:12;85:18;88:1;
fluorine (1)	25;146:4,14;149:10;	152:16	framework (1)	92:24;95:18;96:3;
125:22	150:8;156:4;159:19;	formic (3)	60:13	194:1;214:1;221:24;
flushed (1)	162:25;163:10;	35:5,12;36:16	franchise (1)	230:14,19;239:25;
16:20	164:11;165:15;	formidable (2)	103:19	251:15
fly (1)	166:18;168:1;169:18,	237:9,15	Francisco (7)	full-grown (1)
99:4	22;173:1,15,18;174:3,	forming (1)	103:24;131:5;	26:24
focus (11)	6;178:8,25;180:19;	48:6	133:14;242:2,3,4,7	fully (5)
24:11;93:15;	182:11,15;183:5;	forms (4)	Franklin (30)	38:19;148:10;
109:20;154:25;	207:23;225:10;231:2;	11:6;206:1;215:14,	7:21;10:12;14:15;	214:3;235:15;243:23
156:23;157:2;180:16;	239:11,11;241:7,9,14,	15	31:13;32:4;52:4,15;	fun (11)
191:19;203:13;	17;242:6,7,25;243:4,	formula (2)	60:17;65:6;66:25;	6:5,6;37:5;40:11;

Spring 2024 Meeting	Γ		Γ	April 30, 2024
50.22 25.60.2 8.	gagag (1)	37:22;86:10;169:5	77:19;80:17;87:22;	13:21
59:22,25;60:3,8;	gases (1)	· · · · ·	· · · · ·	
104:12;121:22;230:5	193:11	glad (6)	88:7,22,22;89:5,25;	grateful (5)
function (6)	gather (3)	33:4;51:14;119:2;	97:9;99:11;100:8;	24:9;58:4,22;66:5;
168:4;204:10,11;	77:5;91:17;186:17	218:15;229:16;252:9	101:2;105:4,4;	230:11
205:19;238:13;253:8	gathering (1)	glass (5)	107:16;109:18;122:9;	gray (1)
functional (6)	76:17	108:6;133:1;178:2,	128:2;131:16;132:1;	134:15
83:3;86:21;90:14;	gave (3)	18;243:22	144:7,25;146:2;	graze (1)
182:5;237:5;247:17	46:14;77:6;232:15	glasses (2)	148:13;149:12,19;	24:18
functioning (1)	geared (1)	66:9;150:9	153:12;157:13,14;	grazing (2)
93:22	54:22	global (3)	163:11;166:13;	24:17;28:5
fund (5)	gears (1)	104:15;126:18;	170:13;172:12;	great (61)
79:21,24,25;80:1,4	119:19	146:16	173:11;175:7,19;	14:21;19:3,16;
fundamental (2)	general (12)	Globally (1)	179:4;182:24;183:10;	20:25;25:11,19;
58:11;105:15	17:13;29:1;57:23;	242:1	184:17;188:22;191:3;	28:16;29:15;30:2;
fundamentally (2)	82:25;96:13;115:23;	glues (1)	193:17;195:21;196:8,	32:12,20;40:24;
126:2;142:21	117:18;166:18;	177:18	11;200:1,5;206:7,7;	42:21;44:13;45:6,7;
funding (2)	202:21;209:24;	glut (1)	213:8;215:11;220:4;	48:17;49:9;51:13,19;
76:23;80:7	218:13;220:25	42:21	228:2;231:13;232:4,	55:4,19;57:14,24;
fungus (1)	generally (9)	glycerin (2)	17;233:7;237:17;	58:22;59:19;71:6;
152:1	13:22;43:16;56:25;	15:19,23	244:25;246:14;	75:3;79:3;83:12;
funny (2)	69:17;84:11;120:1;	glyphosate (1)	247:25	99:10,17;120:13;
70:5;193:1	166:14;171:16;	57:16	Google (2)	126:1;132:16;133:12;
further (8)	177:11	GM (3)	44:24;77:25	135:14;158:4;162:11,
106:5;111:13;	generate (2)	151:22;152:1,3	Googled (1)	11;163:9;164:13;
116:25;151:1;171:13;	143:5;144:7	GMO (6)	226:1	166:6;181:21;183:9;
192:24;213:14;	generated (2)	54:20;57:16;59:3,5,	go-round (2)	184:2;190:19;202:13;
221:13	110:15,19	5;152:13	204:18,19	207:12;212:11,25;
future (12)	generates (1)	GMOs (3)	go-to (1)	213:3;218:23;222:22;
19:10;32:19;71:25;	80:17	58:10,13;64:5	119:8	225:17;230:12;
74:25;82:6;92:10,13;	generation (1)	GMO-type (1)	government (8)	233:19;235:24;
115:5;137:24;198:16;	117:19	152:11	56:4,5,8,20;57:17;	240:12;244:13;
222:16;247:19	generator (1)	goal (7)	95:8;103:5;175:9	252:24
fuzzless (2)	122:15	43:3,14;44:10;80:4;	grab (2)	greater (3)
220:10,10	generators (1)	125:6;134:17;139:21	30:13;42:25	123:11;155:13;
fuzzy (2)	122:18	goals (5)	grade (1)	193:7
223:22;224:14	generic (1)	100:20;101:11;	175:22	greatly (1)
FYI (1)	107:19	125:9;178:25;237:22	grain (6)	187:25
130:6	Germany (1)	goats (2)	7:2;28:22;42:4;	green (16)
G	211:21	25:1;30:19	43:3;44:2;77:8	63:11;111:14;
G	germinate (1)	goes (31)	grains (4)	112:11,12;123:24;
	215:9	31:20;76:8,10;	39:5,6,10;45:6	134:15;135:19,23;
gains (1)	gets (11)	79:14;82:16;106:5;	grammar (2)	136:12;140:10;
126:12	28:5;69:4;76:5;	111:2;112:5,6;123:8,	96:5,9	159:12,15,17,20;
game (3)	115:10;128:25;	12,13;125:19;126:10;	grand (1)	239:8;241:17
128:1;140:5;251:18	136:24;150:13;160:5;	131:7;132:11;134:20;	236:23	greenhouse (27)
games (1)	167:18;176:12;182:2	138:19,20,23,24;	grant (2)	139:13;187:1,6,15,
59:23	giant (3)	148:4;149:17;150:19;	76:20;136:21	25;188:8;189:2,14;
gant (1)	124:10;154:23;	165:14;167:15;168:3;	granular (6)	191:3,4;192:15,16,23;
23:15	156:10	171:11,13;244:3;	17:20;70:17;93:6;	193:3,5,11,12,16,18;
gap (1)	gift (1)	253:6	119:14;124:8;126:20	194:3,5,8,12;195:2;
81:6	183:12	gold (1)	granules (1)	200:21;215:1;216:10
gaps (2)	girl (1)	239:10	211:3	greenhouses (7)
58:19;112:20	34:7	golden (1)	grape (3)	187:9,14;188:10,
garbage (2)	given (12)	164:14	144:17,21;214:5	24;192:7;195:11,25
143:6;241:8	22:22;59:13;95:1,	Good (97)	grapes (2)	greens (1)
garden (1)	14;119:25;174:21,21;	6:3,3,5,8,15,22;	144:19;168:15	166:17
138:24	176:24;186:14;	7:22;13:4,6,11,12;	graphic (2)	grew (1)
gardeners (1)	193:10;203:21;	17:15;19:16,21,21;	123:22,25	34:4
139:3	213:24	20:4;22:2;24:4;27:8;	grappling (1)	grey (1)
gas (7)	gives (5)	29:23;30:3;37:4,5;	239:4	64:16
139:13;146:17;	36:16;115:15;	41:7;43:1;45:22;47:1;	grasp (1)	grinding (1)
175:25;187:5;193:18;	132:17;207:3;235:6	48:13;60:4;73:11;	75:9	39:6
200:21;226:10	giving (3)	74:22,24;76:6,11,16;	grass (1)	grocery (4)
				L

~F88	1
43:8,9;122:17;	131:1
151:5 groping (1)	150:1; 171:1;
66:1	guide (1
group (18)	93:7
20:7;84:17;85:20; 86:13;89:7,8;90:1,4;	guidelin 30:18
91:1,2,12;199:8,16;	gut (2)
206:7;220:12;221:8; 237:6;242:16	179:1: guy (1)
grouped (1)	184:2
90:6	guys (14
grouping (2) 84:7;90:25	41:3,6 119:11
groupings (1)	14;16
91:3	177:1
groups (10) 60:5;83:3;89:17,19;	
90:3,12,14;97:22;	
117:10;204:22	habitat
group's (1) 85:12	204:6 hair (1)
grow (2)	204:8
123:2;164:18 grower (4)	hairs (1) 82:11
189:2;198:21;	62.11 half (3)
206:23;225:7	77:16
growers (17) 112:12;144:17,17,	133:19 half-bak
17;154:22;162:17,17;	87:25
189:14;191:23;195:2;	half-life
199:9,10;204:11; 205:13;227:24;228:1;	9:24;1 204:1
229:7	hammer
growing (9) 112:24;162:7,18;	236:19 hand (9)
168:16;192:14,19,22;	17:3;5
193:2,19	100:1;
grows (1) 135:21	196:2 240:1
growth (9)	handboo
104:15;108:13; 110:18;111:4;147:5;	103:13 157:1
155:7;190:24;215:11;	handful
225:16	69:15
guard (2) 31:25;33:17	handhel 114:1:
guardrails (3)	handle (
30:16,23;233:24	32:1;1
guess (19) 20:4;33:11;68:17;	174:5, handled
73:4;99:8;108:13;	174:1
109:7;121:5;123:10; 125:10;127:12;	handles 222:9
145:19;161:19;	handling
165:22;186:3;190:6;	20:8;4
223:2;229:18;236:7 guest (1)	61:10, 92:5;1
83:10	186:5;
guests (1) 84:23	253:24
o4:25 guidance (11)	hand-pl 226:2:
106:4,5;107:25,25;	hand-so
	1

131:10;135:5,9;	129:4
150:1;159:16;161:14;	hand-sorters (1)
171:13	129:6
guide (1)	hang (1)
93:7	105:15
guidelines (2)	happen (10)
30:18;135:5	41:21;55:16;161:9,
gut (2)	12;171:23;176:23;
179:15;195:4	216:2;229:21;233:6;
guy (1)	243:5
184:25	happened (1)
guys (14)	212:13
41:3,6;57:4;99:22;	happening (9)
119:13,13,15;126:7,	7:9;41:15,23;57:23;
14;165:19;171:2;	68:12;73:17;75:16;
177:19;184:5;244:13	110:2;133:17
Н	happens (12)
11	13:18;111:18; 158:16,21;160:24;
habitat (1)	158:16,21,160:24; 161:12;164:1,19,19;
204:6	166:21;168:13;
204.0 hair (1)	182:10
204:8	happy (16)
hairs (1)	32:8;55:25;61:24;
82:11	62:1,5;85:19;94:14;
half (3)	119:5,17;130:13;
77:16;121:14;	142:2;196:14;202:8;
133:19	241:20;242:10;
half-baked (1)	246:15
87:25	hard (21)
half-life (5)	46:19;51:17;56:12,
9:24;12:9,11,25;	17,18;58:19;73:21,
204:1	22;74:1;96:20;
hammer (1)	108:22;119:14;124:6;
236:19	144:12;147:17;156:8;
hand (9)	168:7;170:12;173:21;
17:3;54:16;67:25;	180:3;198:4
100:1;120:18;137:21;	harder (1)
196:21;224:13;	42:8
240:10	hardship (1)
handbook (3) 103:13;154:15;	40:1 harm (1)
157:1	195:15
handful (1)	harmonize (2)
69:15	29:13;120:2
handheld (1)	Harrison (1)
114:15	145:4
handle (7)	harsh (1)
32:1;126:5;139:11;	15:17
174:5,14;175:11,11	harvest (3)
handled (1)	105:23;106:2;
174:19	221:18
handles (1)	harvesting (1)
222:9	193:12
handling (16)	hat (3)
20:8;48:7,8,12,14;	239:6,6,8
61:10,14;62:3;66:14;	hate (2)
92:5;112:24;174:18;	122:20;155:9
186:5;218:17;221:18;	hauler (3)
253:24 hand-planted (1)	103:19;130:21; 132:8
226:25	132:8 haulers (1)
hand-sort (1)	131:10
nunu-svi ((1)	131.10

hazard (2) 173:20.23 HCL (2) 219:20;221:22 head (3) 34:6;92:4;189:24 headache (1) 180:17 headings (1) 90:17 heads (4) 189:18:214:20; 226:12:252:20 health (18) 9:9,13;12:1;15:5; 16:5;29:7;33:22; 53:22;111:3;187:8; 208:24,24;213:14; 215:25;219:18; 228:10;229:5;246:23 healthy (3) 139:14;145:16; 173:8 HEALY (1) 36:7 heaped (1) 110:16 hear (35) 6:9,13;17:3;25:9; 29:24:39:19:40:16; 55:25;59:2;69:17,24; 70:15:73:17.19:74:6. 9;82:9;99:15:107:2; 137:18,19;139:17; 153:24;170:24;184:1; 199:8,9,14;200:8; 201:19:223:6:234:9: 238:25;243:16;253:2 heard (33) 17:21:25:17.25; 37:16:39:11:50:6: 58:18:64:17:69:15; 70:24;72:6;110:4; 134:8;147:23;152:13; 160:17;179:17; 195:13;197:9,22; 199:15;202:14,16; 232:7,12;233:21; 234:23;239:21; 240:25;244:18,19,22; 252:25 hearing (12) 41:14;49:18;71:13; 73:1;99:25;178:13; 183:21;202:19;236:7, 8;241:23;248:16 heart (4) 59:15;104:25; 163:4;182:25 hearts (2) 76:25;248:18 heat (5) 110:15;143:16;

- Vol. 4 April 30, 2024

187:6;191:5;194:8 Heather (7) 28:2,10,18;75:19; 82:23;219:11,18 heating (3) 164:20;192:16; 194:3 heavier (1) 138:1 heavy (3) 27:4;107:4;147:17 heck (1) 251:9 heifer (1) 26:22 held (2) 73:9;216:6 hello (1) 160:17 help (33) 8:11;26:9,16;31:25; 34:8;37:25;40:15; 41:3;43:3;44:1,10; 50:6;62:18;80:4;81:6; 93:24;111:10;115:20, 25;119:20;153:22; 154:18;158:8;188:1; 191:11;214:25; 217:25;226:6;234:12; 236:11:238:16:243:9; 247:10 helped (1) 62:12 helper (2) 38:5,5 helpful (20) 18:22;24:19;28:17; 42:13;73:21;80:3; 84:1,1;120:8;147:1, 21;154:2;160:14; 195:15;198:8;224:18, 19,20,24;239:3 helping (5) 28:18;35:17;66:1; 71:16;230:11 helps (5) 25:7;93:8;114:10; 115:16;215:9 herbaceous (1) 9:10 herbicides (2) 108:11;203:11 herbs (2) 112:13;159:20 here's (2) 14:7;124:6 heretical (1) 142:17 hesitancy (1) 246:17 hey (4) 26:9;78:20;97:22; 169:14

198:7

216:24

26:7

103:4

127:3

125:14

21:3

10:20

99:22

91:15

110:21

226:3

53:2

hi (3) 104:9:184:1:225:19 hidden (1) 18:8 high (12)19:1:40:12:47:19; 151:25;153:25;178:7; 216:10,14;217:13,16; hopes (1) 218:6;228:5 higher (3) 139:8;155:17; 165:13 highest (2) 38:1;58:8 highlight (7) 17:14;48:7;61:7; 72:13;77:20;84:21; 204:2 highlighting (1) 94:16 host (1) highlights (1) 29:21 hotel (1) highly (6) 30:5;43:15;194:6; hour (1) 204:3;205:9;228:17 Highways (1) hours (4) 167:12 hillsides (1) 168:16 house (6) hired (1) 168:22 history (5) houses (2) 81:18;184:20,21; 185:1:227:4 hit (4) 58:20;132:23; huge (15) 134:4;139:19 hitting (1) 178:10 hive (1) 36:17 hives (1) huh (1) 35:11 hold (4) 64:6;84:12;191:5; 212:20 holding (1) 166:10 holistically (1) 40:21 home (10) 111:22,23;115:1,2; 118:8;130:5;138:24; 139:3;140:9;183:13 honestly (1) 190:15 honey (2) 36:23;37:2 honor (3) 86:10:230:20:246:8 hung (1) honoring (1) 246:6 hurts (1) hope (7)

HUSEMAN (16) 6:5;7:6;42:24;80:5; 130:11:165:13:174:9 23:12,22,24:24:15; hopefully (11) 30:7.9:34:3:36:3: 85:1;99:22;109:10; 40:9:43:6:49:7:50:16: 139:16;141:7,11,23; 98:21,23;201:25; 149:16;172:17; 240:6 hybrids (1) 224:17;225:10 224:10 hydrated (1) hoping (3) 215:14 63:16;195:24;222:7 hydrocarbons (1) horizon (1) 12:17 hydrochloric (5) horrors (1) 219:19,22,23; 220:2;225:22 hydrogen (24) horticultural (5) 205:3,5,7,14;207:4 10:13,14,19;11:4,8, horticulture (1) 11,11,20;12:21,23; 206:13 14:4,18;31:13,14,15; 32:4;202:7,8,15; 219:1,7,8;225:22; 226:9 hydrogen-(1) 12:18 hydrogen-peroxide (1) 13:10 9:24;12:10;13:3; hydrolysis (1) 15:25 hydroponic (2) 37:10,20,21;45:1; 192:24;213:7 189:7:191:15 hydroquinone (2) 11:6.7 37:17;223:13 hypothetical (1) housing (1) 167:23 I 34:14;59:10;62:11; idea (22) 96:12:125:1:133:5: 48:13:68:23.23; 136:2;139:20;142:16; 143:24;156:8,10; 74:4.22.24:76:22: 228:7;239:11,13 78:18:79:13:126:1; 127:16,17;129:16; 165:21;175:25; human (15) 181:15;193:1;227:17, 8:16;9:13,22;12:1; 21;235:21;242:24; 247:25 16:5,9;33:22;53:22; 187:7;204:8;213:14; ideas (5) 215:24;219:18; 43:1;77:17;82:6; 228:10;246:22 84:5;143:9 humanness (1) identification (2) 57:18.18 identified (1) humans (4) 13:25:39:1:49:1; 16:17 219:20 identifies (1) humus-like (1) 48:21 identify (6) hundreds (4) 49:16;85:1;93:4; 162:22;206:25; 115:16;173:21; 207:1;211:22 178:20 identifying (3) 92:19,21;178:6 ie (1) 125:24

IFOAM (9) 9:11:22:4:46:8: 47:12;206:12;208:19; 211:20:214:7:215:22 ifs (1) 140:20 Ila (1) 71:3 illegal (1) 169:24 illness (3) 112:16:115:21; 159:23 illumination (1) 114:9 image (1) 136:5 imagery (1) 43:7 images (1) 135:14 imagine (2) 126:25:224:4 imagined (1) 90:10 immediate (1) 12:18 immediately (1) 134:1 immersed (1) 230:14 impact (9) 18:14:33:16,22,23; 46:4;53:21;204:20; 233:1;248:24 impactful (1) 162:9 impacts (6) 44:19:63:25: 118:20;164:18;187:3; 192:5 imperative (2) 70:11;243:24 imperfect (3) 68:4,4,9 implement (2) 98:4;158:13 implementation (1) 104:1 implemented (3) 93:3;125:17;179:1 implications (5) 54:2;182:12; 233:25;234:7;249:18 importance (3) 28:22;81:4;217:22 important (58) 12:16,20;14:19; 22:11;24:17;27:23; 28:13:32:11:33:21; 34:16;38:22;44:7; 53:16:62:20:69:2; 70:3;75:13;77:14;

- Vol. 4 April 30, 2024

89:9:95:4:100:22; 106:12.17:115:18: 120:3.4.10:121:6.7. 17.19:122:24:126:13: 131:8;136:10;154:9; 157:6;164:20,22; 168:10;189:1;193:11, 19;194:11;202:20,23; 209:8;212:4;216:10; 217:24;218:11,25; 227:18;231:10;233:2; 235:2;238:24;251:18 importation (1) 118:22 imported (1) 222:10 Impossible (3) 56:25;57:4;129:16 impressed (1) 119:11 impression (2) 148:12;173:9 imprimatur (1) 126:12 improve (4) 49:17;51:11;112:8; 114:22 improved (1) 244:1 **improvement** (3) 25:22;120:20; 189:15 impugn (3) 96:6,16,17 in- (1) 106:9 inaccessible (1) 55:11 inactivate (1) 110:22 in-between (1) 244:5 inbound (2) 136:3;156:2 incentive (3) 33:7;145:15;220:21 incentivize (1) 144:17 inch (2) 138:4;156:2 incident (1) 194:2 incidental (1) 158:20 incidents (1) 159:22 incinerators (1) 244:8 inclination (2) 129:3:234:19 include (5) 17:7;81:25;105:19; 108:6;221:6

Min-U-Script®

included (5) 15:12:36:10:50:22: 105:11:106:6 includes (5) 23:21;24:21;105:9; 221:7,17 including (12) 29:18;68:8;102:20; 103:5,14;112:20; 124:22;130:7;132:18; 146:5;202:10;204:5 inclusion (1) 31:18 inclusive (1) 96:1 incoming (2) 106:20,22 incorporated (2) 63:15;236:1 incorporating (4) 98:12;179:14; 235:16.21 increase (5) 26:11;135:22; 136:3;147:7;163:13 increased (2) 163:10;213:24 increases (2) 210:24;215:10 increasing (3) 84:5;216:15;225:9 incredible (2) 49:20.22 incredibly (6) 120:10,16;122:23; 168:13,19,24 incubate (1) 101:22 incubating (1) 102:2 indeed (1) 214:11 independent (1) 104:16 in-depth (2) 52:12;229:19 India (7) 222:9,11,11,12; 224:13,24;226:25 indicate (2) 97:13:232:17 indicated (1) 86:7 individual (10) 89:16,21;90:11,17; 98:24;112:3,21; 118:11;153:12; 230:24 individually (5) 84:4;85:14;89:18; 90:6.12 individuals (2) 94:9;97:5

indoor (1) informed (2) 186:24 82:2:213:10 indoors (1) informing (2) 38:19 54:11:230:25 informs (3) industrial (6) 112:2;115:3; 191:21:249:1.9 infrared (1) 116:24;136:17; 114:3 220:17:246:16 infrastructure (5) industrial-size (1) 113:25 54:20;127:8; industry (22) 187:12;225:8,11 24:24,25;25:1;35:3; ingest (1) 39:19;49:14;50:21; 211:6 54:13:64:6:103:7; ingredient (6) 117:10;172:21,23; 11:20;19:14;210:9, 15;211:6,16 176:2;179:8,25; ingredients (16) 180:24;182:6;199:11; 223:7,16;247:1 10:25;19:11;20:17, 21;43:9,10,10;52:12; industry's (1) 241:1 81:16,24;82:14,17,24; inert (17) 84:13:85:5:89:16 inhalation (1) 19:1,11,14;20:6; 81:16,23;82:14,17,24; 13:22 83:13;84:8,13;85:5,6; inherently (1) 209:16;210:16; 12:3 inherited (1) 235:20 inerts (21) 32:15 18:23;19:9;20:9; initial (4) 31:21;81:13,20;83:8, 11:3;156:10;197:6; 13,16;84:4;85:13; 233:22 87:14;88:9,11;89:22; initially (1) 91:11:209:9.11.12: 36:9 initiative (1) 210:15:211:3 inflexible (1) 52:25 236:14 inject (1) 76:4 influence (3) 179:25:180:1; injuriously (1) 191:16 96:19 influenza (1) innate (1) 38:25 11:19 inform (1) inner (1) 231:23 180:16 information (64) innovative (1) 28:7,13;44:16; 77:21 45:20;53:8,21;56:5; innumerable (1) 152:24 58:16,20;61:2,15,23; inoculant (2) 63:12,16,17;64:1,9, 152:12;157:25 13,18;72:5;74:17; 75:4,12,22,23;76:5, inoculants (2) 16;77:5,15,19,25; 108:1;152:12 78:6,6,10;79:12;83:1, input (6) 18,23;84:25;85:20; 89:3:104:17: 98:3;109:19;113:16; 110:25;130:8;186:22; 117:5,22;118:2,3; 251:10 inputs (6) 147:1;151:14,17; 185:8,10;186:14,17; 16:13;56:22;105:9; 196:24;197:22; 234:16,17;241:1 198:18;219:17; ins (1) 220:15;222:19; 104:21 246:21,24;247:1; insect (4) 252:24 45:3:205:13: informative (1) 207:18;208:5 58:21 insecticide (1)

205:6 insecticides (1) 203:11 insects (4) 38:3;45:6;111:1; 207:19 inside (3) 37:13:247:13.21 insight (3) 59:18:69:8:220:6 insights (1) 174:13 insistent (1) 34:7 insoluble (1) 158:7 inspections (2) 37:9;62:15 inspector (1) 25:19 inspiring (1) 119:16 install (1) 128:9 installed (1) 128:16 instead (3) 146:8;176:21; 250:15 instructor (1) 103:11 instrumental (2) 78:4:221:8 insufficient (1) 53:20 integrated (1) 238:20 integrity (1) 96:19 intend (1) 233:19 intended (3) 70:16,17;185:21 intention (1) 54:23 interact (2) 18:23;124:20 interchangeable (1) 31:4 intercropping (1) 77:24 interest (8) 53:13:91:18:96:14; 117:14;119:3;196:10; 239:6;253:10 interested (7) 54:10;83:7;111:25; 117:12;118:4;228:17; 236:7 interesting (23) 15:15,16,21;32:7; 44:17:48:9:51:20; 69:18,22;86:3;88:5;

102:4;131:17;135:4; 136:4:138:18:150:14: 151:11:161:20.20; 163:4;193:23;218:18 interests (1) 239:14 internal (1) 93:7 **International (13)** 9:8:11:14:117:7; 163:12;180:2;203:16; 208:14:214:3,4,6; 215:16;219:12,14 internationally (1) 219:10 interpretation (4) 95:6;97:14,17; 108:19 interpreting (1) 170:23 interrupt (2) 169:14:172:16 interval (3) 105:23:106:2:232:4 intervention (1) 33:5 interweb (1) 142:14 into (119) 12:12,12:13:17; 14:21:16:20,22:20:1; 29:22:31:16.16.20: 32:25:34:3,20:38:25; 39:1:41:17:43:8: 47:14;48:9;55:24; 60:3;61:25;62:19,25; 63:23:64:3:71:3; 73:24,25,25;74:16,17; 76:8,10;81:25;82:8, 16:83:20:84:15.19: 88:14,19,20,24;89:8; 91:10:92:10:94:11; 96:8,9;99:16;109:22; 110:25;114:2,12,22, 25;115:10,14;117:6, 18;121:6;128:11; 129:20;130:3;132:3; 138:16;139:12;140:3, 10;150:20;152:22; 153:17;154:13;155:4, 5;158:1,15;160:5,9; 167:15.16:168:9: 169:15;170:8;173:4; 174:13,18;175:25; 176:21,22;179:7,14; 183:1;186:22;188:25; 189:25;190:20; 193:20;194:12; 200:18;208:23;209:2; 212:2;220:6;221:13; 224:18:230:14.24: 239:2,19:242:22,25; 243:10;244:2,20;

Spring 2024 Meeting		()	1	April 30, 2024
248:21;251:15	Iowa (1)		197:25;201:17;	Kim (19)
intrigued (1)	37:16	J	218:15;226:19;239:1;	22:21;23:10;26:1;
224:1	Iowa/Illinois (1)	J	243:15;252:9	28:19;30:4,5,7,8;
introduce (3)	37:10	January (3)	join (1)	34:1;40:8;41:13;42:2,
100:2,5;102:8	iron (4)	126:2;130:8;160:21	68:2	12;49:7,19;51:7;
introduced (2)	210:9,11,24;212:20	Japan (9)	joined (1)	66:16;98:22;201:24
74:8;111:21	ironic (1)	9:12;22:4;46:8;	102:16	kind (131)
introduces (1)	48:23	47:12;206:12;208:20;	JONES (1)	15:15,21;20:19;
45:4	irradiation (1)	211:20;214:7;215:23	225:5	21:2,14;25:14;30:10;
introduction (3)	58:10	Jared (2)	joy (1)	32:18,23;33:20;
15:14;102:15;104:4	irrigation (8)	36:6,12	19:11	34:19;36:9;37:9;
intrusion (1)	185:20,24;186:1,8,	JEFFERY (31)	jump (4)	46:24;47:13;48:13;
158:2	21;197:13,16;202:10	52:15;56:7;59:21;	82:8;84:15,19;97:3	49:22;56:5;57:15,22;
inventing (1)	irritation (1)	61:16;62:21;66:17;	jumping (3)	69:5,20;74:8;75:9;
248:22	219:21	67:15;71:1;85:23;	18:24;41:8;64:8	76:9;77:16;79:4;
inventory (1)	irritation-based (1)	86:2,12;98:14;100:2;	jurisdiction (1)	80:15;89:15;94:3;
163:22	203:23	131:13;146:20;	112:23	97:23;98:9;104:20;
invertebrates (1)	isolate (1)	170:15;171:16,21;	justification (2)	108:24;109:6;111:18;
13:7	172:13	172:8;196:6;201:16;	36:25;50:5	112:24;113:1;114:3,
invest (1)	isolated (2)	228:24;230:4;233:17;	justifies (1)	6;115:15;116:22;
175:7	8:14;172:13	234:21;236:3,21;	19:15	117:20;123:24;127:7;
invested (2)	issue (39)	237:5,17;246:6;	justify (1)	130:15,23,24;131:9,
175:6,8	18:23;19:2,14;	252:21	192:9	19,25;132:2,5,10,16,
investigate (1)	20:20;22:7;23:6;	Jenny (3)		18;133:13;134:14,16,
22:6	27:23;39:21;47:12;	249:12,15;252:8	K	17,17,19;135:9,13;
investigating (1)	54:16;60:1;62:11;	Jenny's (1)		137:1,11,12;139:4,5,
207:6	65:23;70:9;81:19;	79:6	KCS (1)	12,18,22;140:11,14;
investigation (1)	89:9;96:21;111:24;	jeopardize (2)	188:8	141:2,5,10;142:11;
61:25	115:13;140:12;	198:10,16	keenly (1)	143:20,22,24;149:25;
investment (2)	142:21;144:2;184:7;	Jepson (1)	7:1	150:19,25;152:24;
134:23;140:3	188:24;191:21;	179:19	keep (26)	156:9;159:10;161:14,
investments (1)	194:18;205:18;	Jerry (24)	33:6;39:3;51:24;	21;165:12;172:23;
136:20	210:16;223:21;	26:4;60:15;62:21;	58:9;60:20;61:5;	174:13;175:18;
invisible (3)	230:12,14;232:7;	67:8;78:13,14;	63:11;64:5;65:2;	176:23;177:3;179:15;
108:5,8,16	239:13;245:20,25;	124:12;146:13;	72:12;73:22;102:2;	184:15;185:15,16;
invitation (1) 104:11	248:15,21;249:17; 252:18	188:21;189:12;	139:13;160:22;	188:20;189:13;190:7, 16,16;192:25;197:8;
invite (5)	issued (1)	190:23;191:6;192:12;	167:24;170:9;177:3; 184:13;202:12;207:5;	198:6;199:8;207:3;
83:11;84:24;85:1,6;	221:14	194:22;195:8;197:23;	212:22;222:17;	208:13,22;211:3,4,5;
119:18	issues (27)	213:5;214:22,24;	234:18;239:20;	212:21,22;221:24;
inviting (2)	9:14;12:2;13:23;	216:21;243:14;	241:21;245:19	223:19;226:8,10;
109:19;165:20	19:4;21:13;55:17;	244:23;245:16;	keeping (7)	227:3;228:1;231:21;
involve (2)	56:11;70:2;83:6;	248:14	45:1;60:19;98:12;	238:10;239:14,22;
220:11;227:7	116:1;191:1,7;	Jerry's (1)	166:11;169:7;225:15;	246:20;247:5;250:14;
involved (6)	208:24,25;212:2;	188:21	240:2	251:6;252:22
27:14;43:23;69:9;	215:25;219:19;	jets (1)	keeps (2)	kinds (6)
70:22;105:25;116:16	227:25;228:10;229:5;	253:14	98:15;209:2	73:25;109:23;
involves (1)	231:19,22,24;232:6;	jigsaw (1) 29:12	key (4)	113:9;114:23;207:21;
110:2	250:13,14,17	job (17)	133:10;134:24;	208:8
involving (1)	Isu (1)	32:20;38:13;56:20;	143:2;220:19	kitchen (2)
208:8	82:23	58:15;74:16;75:7,18;	kick (4)	173:15;180:19
iodine (15)	item (6)	76:21;99:11;116:19;	26:1;92:8;188:6;	knew (2)
14:23,24;15:2,6,7,8,	88:11,12;141:20;	180:9;202:13;230:12;	253:24	50:17;194:10
17;16:4,16,17;17:2,6,	161:17;230:10;	234:8;246:24;247:10;	kicked (1)	knock (1)
12;19:4,9	243:18	253:8	185:7	231:18
iodine-based (1)	items (4)	jobs (1)	kidding (1)	knots (1)
16:2	92:19;183:21;	63:17	214:25	141:19
iodophors (1)	225:1;238:7	JOHNSON (23)	kids (1)	knowing (3)
15:7	iteration (1)	18:21;44:14;48:4;	60:5	58:21;111:25;
ionized (1)	64:4	49:2;58:1;67:5;74:4;	kieserite (1)	182:15
212:22	ivermectin (1)	89:6;90:16;97:11;	215:13	knowledge (3)
ions (4)	23:25	146:23;147:11,21;	kill (1)	43:13;225:20,24
21:25,25;210:11,11		177:7,23;178:1;	208:5	knowledgeable (3)
	I	1	1	l

Min-U-Script®

Burke Court Reporting & Transcription (973) 692-0660 (21) intrigued - knowledgeable

Spring 2024 Meeting			I	
7.12 14 14	124.2	165.16	legislation (2)	242.12.242.11 12.
7:12,14,14	124:3	165:16		242:12;243:11,13;
known (4)	landfills (5)	lay (3)	103:9;118:19	244:12,23;245:16;
16:7;64:13;108:11;	169:7;239:11,12;	20:19;124:17;203:6	lend (2)	246:5;247:22;248:10,
152:3	244:8,11	layer (3)	57:7;62:8	25;252:7,17;253:13
knows (7)	landing (1)	17:24;38:17;172:22	lending (1)	Lewis's (1)
21:2;111:24;127:1;	239:9	layers (1)	230:13	194:24
166:16;179:21,21,22	landscape (2)	26:8	less (25)	liberal (1)
	_ , ,			
Kraft (1)	42:18;43:4	laying (3)	35:25;68:11;	177:21
120:14	landscaping (1)	38:19;39:2;239:2	121:14;122:5,6;	liberally (1)
Kyla (19)	138:24	lead (6)	126:19;129:2;138:23;	177:22
6:18;19:17;51:18;	language (6)	62:7;93:4;103:10;	140:8,18;156:12;	license (1)
60:15;64:7;74:20;	17:16;95:9;232:9,	107:5;179:24;230:1	162:24;164:19;173:1;	123:18
78:2;91:24;99:9;	20,23;237:24	leader (1)	178:14;179:4;191:16,	licensed (3)
159:4;160:16;170:11;	languages (1)	54:20	16;204:1;216:4;	8:7,21;9:16
183:16;194:21;196:2;	237:24	leadership (5)	225:16;242:20,21;	life (6)
244:12,23;253:16,17	languaging (1)	65:9;71:3;75:3;	243:8;251:20	41:3;52:23;116:15,
Kyla's (1)	233:18	81:8;91:11	lesson (2)	20;145:14;238:18
177:10	lanolin (1)	leading (2)	96:9;157:15	lifespan (1)
	15:20	65:18;106:25	less-than-desirable (1)	39:20
L	large (5)	leaf (4)	15:11	lift (2)
. <u>.</u>	34:17;103:8;121:9;	120:14;189:21,21;	letter (2)	59:19;125:1
LA (2)	123:6;203:18	236:18	108:25;252:3	light (7)
123:23,23	largely (2)	Leafy (8)	letting (2)	9:2;12:13,17;83:20;
	9:21;164:17		0	
lab (5)		111:14;112:11,12;	240:3;243:2	137:25;141:18;231:9
155:4,5;156:25;	larger (6)	159:12,14,17,20;	lettuce (4)	liked (3)
157:11;159:11	12:19;13:19;112:2;	166:17	112:12;160:6;	127:11;232:8;240:8
label (5)	115:6;154:23;163:22	leaks (1)	189:18,25	likelihood (1)
114:16,16;115:18;	largest (4)	185:20	Level (12)	222:5
116:3;161:3	16:17;38:21;	lean (3)	9:2,2;13:8;17:19;	likely (8)
labeled (6)	123:25;144:10	34:3;235:17;236:1	40:7,12;61:25;62:22;	9:18;10:3;12:23;
10:24;92:4;130:5;	last (40)	leaned (1)	64:11;157:24;165:13;	13:17;145:13;161:16;
140:19,21;141:9	6:5,25;8:12;10:11,	240:7	191:2	216:1,4
labeling (2)	17;35:5;38:18;42:1;	leaning (2)	leverage (4)	limit (1)
0				152:7
56:4;161:4	45:16;49:12;65:4,13,	36:25;55:23	78:8;87:15;88:6;	
labels (9)	17;68:2,10;73:6;75:8;	learned (5)	98:3	limitation (3)
114:14,19,23,24;	80:22;81:19;94:1;	49:11;184:25;	leveraged (1)	147:17;179:1;
115:8,11,14,15,24	97:3,25;98:7;103:16;	218:9;223:11;229:24	61:10	224:16
labor (1)	118:6;135:24;154:6;	learning (1)	leveraging (1)	limitations (2)
174:14	173:25;175:10;	78:1	59:18	43:18;153:13
laboratory (2)	186:10;204:15,19;	least (9)	levity (1)	limited (8)
102:25;103:1	211:9;212:14;215:5;	8:8,10;58:20;77:19;	102:7	16:16;69:14;95:20;
lack (3)	220:14;222:18;	103:16;110:13;	Lewis (87)	185:11;186:23;
56:3;223:24;225:20	228:22;230:1;252:4	127:17;128:22;	14:23,24;19:3;20:2,	213:17,23;219:5
lacking (1)	late (3)	189:14	11,15;21:4;28:25;	limiting (3)
96:19	127:17;183:9;	leave (9)	31:8,9;36:21;38:9,12;	147:5,10,16
lagoon (1)	184:23	13:18;25:4;70:21;	41:5;45:19;48:18,19;	line (5)
16:20	later (9)	89:14;90:24;175:2;	62:25;67:2,3,21;	29:4;54:19;71:13;
lake (1)	8:11;27:25;29:25;	193:8;203:1;241:8	81:10,15;86:1,5;87:1,	162:5;218:20
32:6	46:11;47:14;73:18,	leaves (4)	22;89:25;90:9,19;	liner (4)
laminating (1)	19;107:3,6	106:22;120:19;	91:21,24;92:8;94:16;	136:7;140:22;
116:13	latest (1)	186:20;197:13	97:8,19;98:11,18,22;	150:7;173:14
land (7)	69:10	leaving (4)	99:1;100:1,4;141:15;	liners (4)
118:12;133:12;	lathami (1)	22:17;30:6;41:2;	146:22;151:8;159:4;	244:20;246:11;
145:11;224:13;	101:19	65:20	160:16;161:22;	247:16;253:11
241:25;253:7,22	laugh (1)	led (7)	169:14;170:6;172:5,	lines (6)
landfill (16)	144:13	52:11,12,13;81:13;	14;174:10;177:5;	58:15;63:7;89:15;
122:24;132:19;	law (9)	102:18;111:10;128:8	179:10;180:14;181:8,	147:3;223:20;224:10
133:24;136:18;	8:6;55:21;101:5;	Lee (1)	25;182:17,23;183:8;	LinkedIn (2)
138:10,10,15;139:20;	134:17,18;145:6;	123:15	191:18;201:12;202:2;	118:3;127:12
146:15;148:4;163:17,	161:11;167:21;250:8	left (3)	222:24;230:11;	linking (1)
18;166:9,11;176:21;	lawmakers (1)	9:2,3;169:16	234:11;235:24;	101:5
241:9	117:10	legally (1)	236:12;237:2,19,20;	links (1)
landfilled (1)	lawns (1)	63:5	238:20;240:24;	253:23
ianuimeu (1)	1aw113 (1)	03.5	230.20,240.24;	233.23
	1	1	1	1

- Vol. 4 April 30, 2024

Spring 2024 Meeting			1	April 30, 2024
lint (1)	lists (3)	190:2,3;194:21;	115:23;116:7;125:12;	197:5,18;212:12;
219:9	17:25;85:14;186:6	195:13;196:25;197:9;	128:15;132:19;139:4;	216:7;218:10;219:12;
linting (1)	literature (1)	198:1,12,20;201:19,	145:6,7;153:9,17;	224:13;226:25;227:1;
219:8	28:3	20;202:4;203:5;	158:14;160:9;164:17;	229:19,24;233:21;
Lipson (1)	litter (2)	205:2,4;207:11;	165:9;176:10;178:3;	234:7;239:8;240:4,6,
71:14	44:22,23	210:3,6;213:2;	186:15;206:5;219:6;	8;247:1,2,7;248:20;
LIS-3 (3)	little (54)	214:23;218:22;219:3;	220:5;229:14;232:1;	251:9;252:25
209:9,9,16	6:24;9:13;17:19;	226:21;228:20;	235:12;236:20;237:6;	lots (11)
list (89)	18:14;21:14;23:17,	229:10;230:4;253:16	243:19;246:15,18	6:6;18:1;51:7;
15:10,24;19:1,5,7,	20;25:10;30:15,25;	Logan's (2)	looks (7)	88:20;115:9;144:20;
7;21:24;22:5;24:1;	34:7;40:18;41:9;43:7;	196:23;218:8	23:10;35:22;39:12;	145:19;153:8;157:7;
		logistical (1)		
29:11,21;30:1,25;	46:11;48:10,22,24;	0	117:3;148:2;231:12;	167:14;169:11
35:1,5,14,15;36:11;	51:15;63:1;68:24;	243:9	246:20	loud (3)
37:1;39:15;41:11,20,	71:11;75:20;90:5;	logistics (2)	loop (6)	144:13;195:14;
20;50:20;53:20;57:2;	95:10;101:13,16,18;	87:23,23	28:12,13;72:11,24;	230:16
68:25;69:5;70:16,16;	113:15;114:16;	logo (3)	75:4;132:10	love (18)
71:23;74:15;77:14,	131:17;132:5;135:11;	139:2;161:8,8	Los (1)	7:23;41:24;69:24;
16,19;83:8,24;84:3,	137:1;149:18;150:25;	logs (2)	163:8	70:15;74:4;77:14,17;
12,14;85:13;89:20,	161:7;165:13;170:23;	106:13,14	lose (4)	86:13;96:5;99:11;
24;97:25;98:3,15;	184:20;193:15;198:6;	long (15)	50:17;136:23;	138:16;139:15;159:1;
105:12;107:16,19;	199:22;200:13;211:4;	18:1;36:11;54:9;	223:18;224:6	165:20,21;167:5;
108:3;133:2;148:6,	218:19;226:11,13;	58:3;59:22;78:19;	losing (1)	184:13;249:20
10;155:24;160:25;	231:3;232:21,22;	88:12;113:18;116:20;	7:11	loves (1)
177:13,17;184:21;	235:18;236:10;246:1	148:23;149:16;150:4;	lost (4)	42:10
	live (6)	170:7;179:9;189:8		42.10 low (10)
186:4,4;188:12;			7:4;130:12;190:21;	
191:20,22;195:18;	26:19;27:5;48:23;	longer (5)	237:18	42:4;170:18;
200:2;203:19;204:24;	55:15;64:16;95:21	25:13;26:19;	lot (164)	175:22,23;187:14;
219:24;221:12;	Livestock (53)	154:15;193:23;233:7	6:15,15;9:18;12:22;	205:10,15;210:10;
222:17;224:22;	6:10,17,24;7:2,10,	longstanding (2)	22:22;24:5,14;25:19;	218:24;222:6
225:15;231:12,21;	14;8:2,3,9;10:16,20,	97:14;188:24	26:19;31:2;33:19;	lower (1)
235:4,6,10;236:4,5,6,	22;11:15;14:11;	look (55)	40:17;42:8;44:17;	156:14
13,15;237:4;239:24;	17:13;19:12,19;	11:16;16:16;24:8;	45:1,5,8;47:25;51:4;	lowers (1)
244:16;246:10,24;	22:16,24;23:6;26:17;	28:11;29:14;37:12,	56:13;58:3,9;59:22,	168:14
252:14,16	28:5,21;29:3,7,24;	19;38:21;42:20;	25;60:3;61:17,21;	lowest (1)
listed (34)	30:22;31:23;32:21,	52:20;62:17;77:14;	63:16;64:17;65:11,	203:21
8:1;9:8,11,12,12;	21;35:25;40:2,10;	91:5;92:6;109:15;	12;69:23;70:7;77:5;	low-hanging (1)
10:15;11:22;14:24;	41:3;42:14,21;46:5;	116:24;120:21;122:3,	80:3;81:5;88:22;	231:19
18:7,9;20:23;21:10;	47:1;48:10,25;49:22;	10;125:5;127:16,19;	89:19;95:17;109:13;	Lubbock (1)
			110:7;113:10;114:9,	223:2
31:10;89:17,23;90:3,	50:20;51:5,16,20;	128:1;130:17;135:25;		
7,11;133:5;139:1;	62:3;66:14;186:4;	139:2;141:2;146:6;	16,20;115:16;118:1;	lucid (1)
185:16,22;186:24,25;	202:14;210:20;217:4;	147:24;156:25;	120:5,22;121:9,22,23,	59:8
187:21;197:7,14;	218:16;253:7	159:17;160:21;	23;122:18;125:16;	luckily (1)
205:5;207:1,16;	living (2)	162:14;163:23,24;	126:20,25;127:11;	39:18
211:22;215:4,25;	22:24;163:7	176:3,13;177:17,22;	128:25;129:1,7,7;	lucky (1)
229:1	load (3)	195:1;198:7;218:1;	130:16,17,23;131:1,6,	23:4
listen (2)	24:9;25:18;27:4	219:10,18;231:11,14,	19,21;132:9,13,21;	lunch (6)
119:11;242:2	loaders (1)	19;232:2;234:24;	133:9,17;135:16,18,	6:11,12;99:11,17,
listened (1)	137:4	237:21;246:21,22,22;	20,24;136:12,14,17;	21;130:7
240:12	loads (2)	251:8;253:11	138:8,15,20,22;	· · · · · ·
listening (1)	24:5;136:10	lookalikes (1)	139:15,17;140:3,3,5,	Μ
40:11	local (5)	127:11	14,17,17,20;141:10;	
listeria (1)	39:5;103:19;	looked (9)	142:7,18,18,20,25;	macadam (1)
158:8	111:24;168:11;	43:14;57:2;114:22;	142.7,18,18,20,25, 143:1,9,13,17,18;	167:15
listing (21)	219:21	121:1;162:12;174:3;	144:11,11,16,21;	machine (1)
19:23;21:20;26:18;	locally (1)	212:12;223:1;233:1	145:14,15;147:12,13;	128:16
27:9;30:16;48:8;84:4,	168:4	looking (51)	148:1,14;150:4,16,19;	mad (1)
10;90:11;185:8,10;	location (1)	29:17;31:7;40:9,14,	151:20;152:21;163:1;	145:2
186:24;187:24;	133:12	15;44:18;45:6,6;	164:22;165:8;166:22,	magazine (1)
196:25;197:11;	locations (1)	47:25;48:11;50:12;	24;167:9,12;168:2;	123:23
204:15,16;221:2,3;	153:16	52:22;54:15;61:22,	169:8,20;175:16;	magic (1)
222:4;229:4	Logan (33)	22;62:19;75:21;	176:22;179:9;180:1;	32:23
listings (2)	6:8;67:16;84:18;	76:20;78:6;92:16;	181:11;182:21;184:5,	magical (1)
89:21;90:17	183:23,25;188:16;	105:9;107:4,7;	6,25;188:3;196:24;	37:24
	100.20,20,100.10,		0,20,100.0,190.21,	

103:17

224:13

100:18

136:9

208:2

190:9

21:109:7

186:11

11:1,1

173:13

211:21

248:20

146:18

magnesium (19) 21:9,12,24,25; 215:2,3;216:1,14,17; 217:4,9,14,15,18; manages (1) 218:4,5,7,9,10 magnitude (1) mandate (2) 174:17 main (5) 8:17;11:19;20:20; 172:19:200:15 mainly (1) 219:6 maintain (4) mangy (3) 69:5;93:25;111:3; 204:24 major (5) 14:9;44:21;193:18; manner (1) 219:20;222:11 majority (5) Manual (5) 123:9;148:18; 174:5;201:6;214:16 maker (1) 237:11 makes (11) 39:7;45:8;46:9; 80:8;107:16;180:5; 195:14;200:13;216:4; 218:5:228:3 makeup (1) 106:21 making (25) 23:19:24:13:25:21: 31:1:38:6:49:24; 54:12;59:23;62:1; 63:8,10;77:17;78:6; 108:15;131:13; 139:10;144:4;168:17; 191:24;198:3,4; 225:13;231:7;244:1,1 male (2) manure (41) 101:25,25 males (1) 101:21 malign (4) 96:6,16,19,21 mammals (1) 12:24 **Man** (1) 165:19 manage (8) 84:12:102:1; 145:23,24;148:23; 188:16,18;208:1 managed (4) many (33) 125:19;144:22; 145:23;163:25 management (14) 28:3,14;29:10; 37:20;51:5;84:3; 100:25;105:6;157:19; 207:18,25;233:22; 249:24,25 manager (1)

207:2;230:16;249:3 managers (1) map (2) 122:9;145:8 marine (1) 103:2 Mark (1) 53:18;55:21 71:14 mandated (1) market (20) 36:8,10;44:4;59:10; mandates (4) 120:11;121:7;126:13; 132:23;134:5; 128:12;138:17,21,25; 139:19:247:21 139:11:146:11:169:3; 220:20,22;222:6; 23:13,14;27:7 225:7,12,17 manipulation (1) marketed (3) 112:9;171:3,5 marketing (9) 61:2;111:14; 112:11;159:12,15,18; 53:18;92:11;93:18, 171:10;223:12;224:2 marketplace (8) manually (1) 36:23;55:5,15; 60:11;150:2;173:4; manufacture (2) 241:6.9 220:18;227:15 markets (3) manufactured (2) 134:6;147:19;168:4 marry (2) manufacturer (5) 33:9:43:3 85:6;198:23; Maryland (2) 211:11:212:3,14 103:3:228:6 manufacturers (6) mass (1) 51:8:83:14:107:15: 187:13 127:15:128:12; massive (3) 147:18;162:17; manufacturer's (1) 230:19 material (57) manufacturing (5) 32:9:33:4:49:13; 50:11;53:20;54:1; 129:7;179:8;212:7, 17;246:22 55:22;64:20;92:2; 100:11;105:11;112:5, 16:20;46:4;100:16; 24:113:25:115:10: 105:17,21,22,24,24, 116:9,12:128:24; 25,25;106:21;121:23; 132:24;134:4,15; 123:1;142:9,15; 135:17;136:18; 143:6,11,13,24;144:6; 138:15;139:7,10; 145:23;146:5,17; 149:7;151:1;153:11; 155:12;161:25;162:8, 164:23;169:23;170:2; 21;163:25;164:10; 175:14;184:10;187:4, 168:2;218:3;227:2,6, 24;198:3;200:8; 10,12,13,17,21,22,22; 202:17;203:2;209:1, 2;210:7,18;211:14; Manure's (1) 213:11;216:9,19; 217:4;228:8;229:4,7; 232:8,24;235:3,5; 33:12;42:12;44:15; 252:12 54:5,17;55:20;60:2; Materials (73) 6:10;10:7;15:11; 62:23;68:7;74:1; 82:13;88:14,18;90:2; 17:25;18:2;20:8; 96:1;105:1;107:14; 22:22;24:3,4,14; 113:2;121:18;122:13, 31:25;32:16,17,20; 18;123:12;127:6,9; 33:13,24;36:18; 128:8,10;144:6; 37:19;44:15;45:9; 147:2;166:10;202:20;

53:4:54:5,22:64:24; 65:12.15:71:4:84:17: 91:4,9:104:17:105:3; 106:20:107:19:110:3. 5;115:13;126:5,22; 129:18;131:18;133:8, 20;135:3,8;137:11; 139:25:143:18; 144:23;148:19; 163:15,23;169:7; 174:15,16,18,19; 175:12;188:12; 195:21;206:2,6; 207:7;209:13;212:13; 236:25;253:9 material's (1) 53:21 mathematical (1) 145:8 mating (1) 207:22 Matt (17) 74:22,24;102:14; 103:6;130:25;134:18; 135:6;139:18;142:5; 160:17;161:24; 169:14;170:15,17; 174:12;179:12; 248:16 matter (10) 110:12,15;118:15; 129:10:149:6:157:11: 166:6:169:19:212:2; 249:8 Matt's (1) 138:18 matured (1) 112:7 Max (1) 117:8 may (23) 17:23;19:10;28:7,9; 58:19;74:23;85:16; 112:7;118:10;121:24; 141:22;142:3;170:8; 181:20;188:1;192:11; 193:22;221:17;228:4; 232:13;233:23;235:3; 254:6 maybe (38) 27:5;29:24;31:20, 20;48:1;50:2;56:6; 71:20;72:5,13;73:12, 14;79:5;98:19; 109:21;122:1;127:7; 140:23;142:10,24; 150:2,11;151:15; 152:1;159:9;172:24; 188:5;198:7;207:6; 212:18;217:5;218:18; 222:17;224:19;226:2; 228:6;248:1,4 48:22;52:3,5,7,16,24; McEvoy (1)

- Vol 4 April 30, 2024

101:14 McManus (4) 116:6;117:4;181:3; 182:19 meal (4) 40:17,19,23;42:20 mean (44) 32:20;41:16;59:3; 64:16;69:16;71:16; 73:4,15;81:1;90:2,16; 110:22;113:24; 121:11:130:16; 134:21;135:14; 138:11,14;147:16; 149:16,18,20;150:17; 156:2;157:25;158:4; 169:24;175:5;176:9; 179:24;181:18; 182:14;191:8;197:18; 238:22;240:19; 241:16,20;243:1,2,15; 248:1.1 meaning (2) 114:17;205:15 meaningful (3) 41:4;50:5;73:21 meanings (1) 96:7 means (13) 51:11:71:24:96:17, 19:99:10:110:13; 129:20.23:130:6: 189:13:204:4:220:8; 249:19 meant (2) 223:24;230:18 meantime (2) 225:15;243:24 measurable (2) 189:3.23 measure (3) 156:9,10;158:13 measured (3) 120:4,5;155:16 measurements (1) 111:6 measures (2) 24:12;111:6 measuring (1) 114:3 meats (1) 6:6 mechanical (8) 204:13;219:9; 220:9,13,16;223:4; 224:16,25 mechanically (1) 224:17 mechanics (2) 86:19:87:5 mechanism (3) 53:17;246:10,13 medical (6)

10:23:21:11:31:11; 33:7.13:95:24 medicine (3) 8:5.17:9:10 medicines (1) 20:9 medium-sized (1) 154:23 meet (8) 59:16:103:8; 110:17;118:18;125:6, 7,21;179:2 meeting (25) 14:11;40:4;45:16; 46:11;47:14;72:17, 22;73:6,9;74:25;82:1, 3,5,19;85:9,17;95:17; 106:15;107:23; 125:15;183:15;185:7; 217:6;237:25;254:5 meetings (5) 74:7;80:10;83:11; 95:15;162:13 meets (1) 101:10 Meloxicam (5) 7:18;49:8,19;50:19, 25 **MEMBER (292)** 6:18,21,22;7:22,23, 25:10:11,14:14:15; 18:18.20.21:19:17: 20:3,13,18:21:6; 22:15;23:12,16,22,23, 24:24:2.15:25:13: 26:3,5,17;27:12,21; 28:24;29:15;30:2,9; 31:6;32:10,15;33:11; 34:3;35:22,24;36:3, 15:37:4,7:38:8,11: 40:8,9,24,25;42:1; 43:6;44:13,14;45:11, 13,21;48:4,17;49:2,5, 9;50:16;51:6,13;52:6, 15;56:1,2,7;57:14,25; 58:1,24,25;59:21; 60:14;61:16;62:5,21; 64:7;65:4,6,19;66:17, 22,24;67:1,5,7,9,11, 13,15,17,24;68:1; 70:25:71:1,9:72:18, 21;73:3,4,11;74:3,4, 19;75:1,2;76:3,14; 77:11;78:11,13,15; 79:2,3,17;80:21,22; 81:11;85:3,22,23,25; 86:2,12,15,17;87:7, 10;88:8;89:4,6;90:16, 23,24;91:7;93:7; 95:19;97:2,11;98:14, 21.23:131:13:142:5. 22;143:1,20;146:20,

153:23;154:2;157:18, 21;159:2;161:23; 162:3:165:1.12; 167:1,8,17;170:15; 171:16,21;172:8,18; 173:9;174:11;177:7, 23;178:1;184:1,18; 188:20,22;189:12,17; 190:1,6,22,23;191:10; 192:11,13;193:10,22; 194:15,19,21;195:7,9, 18;196:2,6,16;197:12, 25;198:9,14,20,22,24; 199:7;200:15;201:2, 9,10,11,13,14,15,16, 17,18,21,25;202:5,8; 203:6;205:1,4; 207:12,15;209:19,21, 22,24;210:1,4,6; 212:6,11;213:3,6; 214:24;215:3;216:22, 25;217:1,3,10;218:15, 23;225:5,19;226:15, 19,22;228:15,21,24; 229:11;230:4;233:17; 234:21;236:3,21; 237:5,8,17;238:17,22; 239:1;240:6,10; 241:10;242:15; 243:12,15;244:24; 245:19,22,24;246:6; 247:23:248:14: 249:13:251:19:252:1, 6,9,21;253:17 members (26) 7:12;32:19,19;59:4; 65:8;74:9;80:25; 82:12:83:12:85:8: 91:18;92:19;93:8,11, 13,13,14;94:24,24; 95:1.2:97:14:104:6: 141:21;180:15;254:1 membership (1) 154:21 mention (7) 14:2;44:17;48:19; 73:2;165:3;187:15; 218:23 mentioned (35) 9:11;11:17,18; 50:21,23;57:20;70:6; 72:8;74:20;78:3; 93:24;97:22;98:9; 115:2;118:9;120:9; 153:24;159:12; 163:14;177:11,24; 179:13;180:18; 190:24;197:1,4; 212:3;217:11,24; 219:15:221:1.9; 224:23,25;227:20 mentioning (1) 134:18

mentors (1) 101:14 Merced (2) 145:5:164:15 message (1) 145:19 met (2) 65:22;112:21 metal (2) 107:4;243:22 metals (1) 157:10 metaphor (2) 247:5,5 methane (3) 139:20;146:16; 239:12 methionine (10) 37:6,24;38:7;39:11, 15;40:4;42:17,17; 72:9,25 method (5) 106:25;107:2; 178:15;232:1,3 methodology (1) 97:24 methods (28) 28:4;47:15,20; 54:12,22;57:9;58:13; 60:19:64:19:65:12, 23;77:23;78:5,9; 106:6.8.11.12.23: 111:17;113:17,21,23; 171:14;208:7;216:23; 232:11:233:16 metric (2) 154:25:155:19 metrics (1) 101:3 mic (1) 6:14 Michelle (5) 6:20;98:14,17; 104:11;144:25 micro (1) 186:7 Microbes (3) 110:15;152:10,24 microbial (2) 151:20,24 microbiologist (2) 102:25;119:7 microbiology (2) 103:3;109:23 microbiome (1) 152:23 micronutrients (2) 46:6:157:10 microorganisms (6) 61:19;62:12;113:8; 152:20.22:153:2 micro-organisms (3) 13:9.13.14

microphone (1) 181:1 mid- (1) 8:7 middle (3) 34:9;129:1;191:13 Middlebury (1) 103:23 Midwest (2) 37:9:120:16 might (29) 15:16:21:19:33:14; 43:11;74:9,16;89:22; 95:25;105:16;110:25; 119:7;154:22;180:4, 12;183:5,5;199:20; 206:9;210:19;211:19; 224:12;228:6;229:18; 232:17;233:22;236:8, 9;240:17;241:15 mildew (1) 214:21 Miles (1) 101:14 milestones (1) 182:5 milk (4) 8:9;27:9,11;143:1 milking (3) 15:5:30:18,21 mill(1)34:10 millet (1) 42:21milligrams (1) 9:17 millimeters (1) 179:5 million (15) 77:6:121:13; 122:25,25;123:4; 126:18:128:17; 142:15,24;143:3,5,6, 7;169:9;175:13 millions (3) 133:6;175:8;176:22 Millner (16) 102:14,23,23; 109:17,18;119:6; 151:15;152:10;154:1; 157:22;159:20;167:9; 172:11:181:2.10: 182:18 Milwaukee (1) 127:6 mimic (1) 159:17 mind (12) 20:19;36:12;41:25; 100:21:131:13:143:2, 21;189:1;199:17; 206:10;213:7;229:1 mind-boggling (1)

- Vol. 4 April 30, 2024

119:14 Mindee (35) 52:11,14:56:2:58:1: 60:6,18;64:8;65:9,21; 66:15;67:14;70:25; 85:22;91:11;98:16; 99:5;100:1,14,17; 104:10;146:23;159:5; 161:22;170:10;184:3; 196:4;228:23;229:8; 230:1;237:8;244:15; 245:17;246:5;247:22; 253:18 Mindee's (3) 62:8;65:20;127:5 minds (1) 59:8 mine (6) 118:24;121:3; 172:22,23;226:22; 245:19 mined (3) 21:15,18,22 mineral (2) 205:8;206:3 minerals (6) 45:24,25;46:22,24; 48:8,9 minimal (1) 92:23 minimize (1) 120:6 minor (1) 207:6 minority (2) 95:14;96:14 minus (1) 156:2 minute (6) 34:4;66:8;126:3; 128:20:164:5:180:17 minutes (6) 104:5;141:25; 169:16;170:7;183:9; 229:15 misleading (1) 96:20 miss (6) 27:16;30:7;41:1; 209:20;226:17; 233:10 missed (3) 78:11;142:10; 245:22 missing (2) 7:11;91:19 mission (2) 54:19;104:14 mistake (1) 65:19 mistakes (1) 56:16 mite (2)

23;147:11,21;151:9;

- Vol. 4 April 30, 2024

Spring 2024 Meeting			T	April 30, 2024
35:10;205:13	45:9,9;46:11;47:14;	164:1;165:22,25;	154:25;155:17;	132:21;133:11;134:7;
mites (2)	48:22,24;49:5,11;	166:1,3,5,18;167:6;	156:13;157:8;161:24;	135:15;138:22;
34:22;35:18	50:7,12;54:1;57:4,16;	168:20;173:23;189:6;	166:16;167:5,11;	155:18;168:14
miticide (1)	63:1,12,16,22;64:21,	190:10;193:11;	168:10;171:9;174:13;	Napa's (1)
205:6	21,22;68:6,11,12,12,	199:20;206:14;222:9;	179:17,23;183:15;	103:20
mitigate (2)	16,16,16,16,24;69:7,	226:24;237:15;	185:9;190:12,18;	napkins (1)
101:12;105:24	8;71:22;72:1,2,5;	244:22;248:17	191:3,8,8;192:4,24;	176:9
mix (6)	73:20;74:17;77:5,8;	mostly (8)	191.3,8,8,192.4,24, 193:4;199:18;211:16;	narrow (1)
45:7;68:21;128:4;	81:5;85:20;86:24;	7:5;21:12;85:13;	218:2,5,10;220:15;	205:8
	89:20;90:19;93:13;			
133:8;136:2;252:16	· · · · ·	94:19;136:7;138:7;	227:22,22;229:13;	Nat (1)
mixed (6)	94:8,11,12,17;95:10,	239:7;247:9	230:2,4;239:1;	32:13
20:7,20;45:25;	22,25;96:6,12;99:12;	motion (14)	241:17;243:6;249:4;	Nate (85)
126:5;129:18;138:23	104:21;105:6;107:2;	17:4,11;66:11,13,	252:7	14:23;18:21;19:18;
mixing (2)	108:17;112:14;113:8,	17;67:22;98:20;	mulch (2)	20:4;21:1;22:13;25:9;
158:17;172:12	8;115:25;117:22;	184:15,17;196:2;	245:8,9	28:19,24;29:15,20;
mixture (4)	120:22;121:12,13;	201:3,4,5;202:3	mulches (1)	30:7,10;31:8;32:10,
9:1,3;15:22;31:14	123:13;124:15;128:6,	motioned (2)	245:7	12;36:20;37:4,6;38:8;
model (1)	11;129:2;132:24;	66:14,19	mulling (1)	40:9;41:5,5;45:19;
223:5	135:5,11,24;136:2;	motivated (2)	239:5	48:18;49:6;50:21;
moderate (1)	138:22;139:11,19,23;	109:23;237:23	multiple (4)	52:13;58:24;60:15,
14:3	140:7,18;141:12;	motivation (2)	88:23;153:16;	23;66:15,21;67:2;
modernize (1)	142:20,23;145:12,19;	172:19;238:4	188:10;204:13	73:16;76:3,13;81:14;
238:4	146:9,16,17;147:19;	mountains (1)	multitude (2)	87:11;91:11,21,23;
modest (1)	151:1;154:14;155:18;	166:3	44:1;50:22	92:6;93:20,24;94:10,
183:12	158:14;162:25;163:2,	mouthful (1)	municipal (4)	15;97:1;100:1;
modifications (1)	25;164:10,11,14;	234:18	139:9;144:7;	104:10;121:21;
115:25	166:7;167:2;168:17,	move (30)	145:24;146:7	146:24;151:9;159:5,
modified (2)	17;169:8;173:1,7,15,	7:8;13:20;18:12,14;	municipally (1)	7;161:22;179:11;
118:10;233:14	23;175:7,17;176:4,16,	21:8;27:2;30:4;36:22;	178:7	184:3;188:19;189:11;
moisture (2)	17,20;177:3;179:14,	46:23;52:3;65:2;	must (2)	191:17;194:24;
155:1;158:5	14;181:11;184:12;	67:24;69:3,4;80:23;	46:9;105:10	196:14;197:24;199:6;
moisturizer (1)	187:7;189:19;191:18;	81:12,13;91:14;	mutagenesis (1)	201:1,4,8;222:23;
15:23	195:2,24;198:6;	109:22;115:25;137:3;	220:11	224:24;226:23;230:1,
moisturizers (1)	199:22;200:13,14,21;	147:17;196:1;198:7;	muted (1)	8,11,12;236:10;
15:18	204:16;205:25;206:3,	217:5;235:12;239:18;	249:9	237:19,19;240:7;
molecule (1)	5,10;210:17;211:1,8,	241:16;247:11;251:2	mycorrhizae (1)	242:13,14;245:17,20,
215:14	16;218:1,19;220:15;	movement (2)	13:13	24;248:12
mom (1)	222:24;223:20;224:9,	118:22;208:8	myself (12)	Nate's (3)
34:10	19;225:17;226:2,11,	moving (10)	68:15;71:12;76:4;	44:8;64:14;119:4
moment (7)	13,15;228:3;234:9,	28:13;35:11;39:25;	84:17;96:5;119:21;	national (41)
78:18;89:3;124:2;	12;235:19;243:4,5,9,	63:3;94:3;114:21;	144:14;152:11;	15:9,24;21:24;24:1;
162:24;173:22;	10;246:15;248:7;	190:16;202:5;209:15;	172:17;177:6;231:3;	29:11;30:25;35:1,5,
232:17;238:23	251:16,20,21,23;	223:6	248:25	14,14;37:1;39:15;
money (6)	252:17	moxidectin (7)	210.20	50:20;84:14;102:21;
79:24;80:2;114:21;	morning (8)	23:17,25;26:2;30:5,	Ν	105:12;177:13,17;
164:4;176:4;177:4	6:3,3,8;7:22;34:8;	11,24;31:6		191:20,22;200:2;
moneymaker (1)	202:14;253:21,24	MSDS (1)	nail (1)	219:24;221:12;
240:19	morphed (1)	18:9	236:20	219.24,221.12, 224:22;231:12,21;
money's (1)	188:23	MSDSs (1)	naive (1)	235:4,6,10;236:4,5,6,
174:13	morphing (1)	18:7	173:3	13,15;237:4;239:24;
Montana (3)	29:22	much (80)	name (3)	244:16;246:10,24;
25:1;37:8;77:6	MOSES's (1)	17:5;26:24;27:2,2,	89:7;102:17;127:23	252:14,15
month (1)	19:20	2;30:7;42:18;43:2;	namely (1)	nationalists (1)
84:24	most (48)	51:13;52:15,21;59:7;	16:6	252:11
months (3)	7:11;14:6,9,20;	60:18,20;66:11;71:8,	names (1)	natural (16)
6:25;93:3;199:20	15:4,19;21:20;37:14;	22;79:23;83:21;	107:16	21:22;41:11;55:13;
moot (1)	38:14;49:10;52:22;	86:13;87:13;96:10;	NANDWANI (10)	76:10;175:24;204:7;
223:10	64:18;65:21;69:1,2;	107:9,24;113:18;	65:6;66:24;74:19;	205:22;215:7,12,15,
more (186)	81:18;94:4;97:4;	118:23,25;127:8,9;	151:9;153:23;154:2;	20;216:13;217:6,11;
17:19;25:23,23;	119:1,12;122:23;	129:4;130:15;134:8;	157:18,21;159:2;	218:12;220:5
26:11,14,20;30:12,15;	127:21;129:23;	138:7;140:13;143:4;	201:10	naturally (4)
35:12,15;42:6,18;	136:22;154:19;	144:6;145:14;146:16,	Napa (11)	8:13;152:21;
43:1,2,3,4,18;44:2;	158:23;161:16,21;	23;150:22;153:9;	103:18,18,19,25;	215:12;217:8
	1	1	1	L

nature (7) 22:1:29:21:36:19: needle (2) 70:2;82:20;94:5; 210:12 needs (12) NatureWorks (1) 180:4 near (4) 37:24;82:6;115:5; 133:21 neem (1) nearly (1) 205:20 55:11 89:12 neat (1) 226:24 necessarily (12) 38:23 28:10;42:16;57:20; Neil (1) 163:21 69:8;97:16;98:6; 162:10;173:10;212:3, neither (1) 9;220:15;227:23 126:24 necessary (15) 17:2;31:23;32:9; 44:18 33:7.18:37:1:50:7: neonics (2) 63:23:173:12.17: 206:24;212:8;224:25; nerd (1) 227:19;228:9 44:22 necessity (6) 39:15;191:19,23; 39:12 192:9;196:6;197:21 net (1) need (90) 230:21 6:18,19;21:17;24:4; netted (1) 26:9,9;31:24;33:5; 38:4:40:1:42:6:60:25: 64:22:66:17:69:2.25: 70:18,19;72:3;73:14, 19;76:23,24,24;78:7; 186:9 New (39) 80:13;81:5;83:18,24; 89:17,21;95:1;99:24; 106:19:112:22; 113:19:115:8.20: 117:14:120:11.21: 130:2:134:4:135:5: 145:18;166:5;172:20; 176:4,14,23;177:15; 181:11;182:24,25; 184:15;190:19; 195:25;197:5,19; 198:20;199:20; 204:10,24;206:10; 212:9;214:24;218:1, newer (1) 2,13;222:2;223:19; 113:7 224:9,17;225:24; news (2) 226:1;227:22;228:4; 229:7;231:15;232:7; 233:13,22;235:10; 236:10;237:18; next (38) 238:11;239:18; 243:23;246:2,13 needed (12) 13:10;47:5;62:18; 77:9;116:20;186:22; 187:13:190:21:194:8; 197:14;222:15; 251:16

220:3;227:24;243:8 18:14:39:25 nice (3) 74:8;150:9;231:5 89:3;92:18,22; nicely (1) 116:25;141:8;149:13; 213:24 158:7,10;176:6; niche (1) 195:1;244:19;246:3 145:2 **NIFA (6)** 72:15,21;73:13; negative (1) 74:5,9,22 night (2) neighbors (1) 6:5.5 nightshade (3) 8:14,15,25 nine (3) 127:25;169:16; 170:7 neonicotinoid (1) nine-year-old (1) 213:22 nitrogen (8) 44:20,23 120:7:155:12,13; 233:9,20 nervousness (1) nobody (1) 52:25 Nobody's (1) 128:17 nodding (1) 112:17 252:20 networks (1) NOFA-New (1) 174:12 27:14 neutralization (1) non (1) 161:1 non- (4) 7:4;18:3;54:14; 13:5:33:17:74:14; 94:4 55:4;56:6,22;57:19, 24;68:13;74:8;75:16; non-certified (2) 223:23;224:5 78:8;92:5;93:11,12, 14;94:23;95:1;101:5, non-compostable (3) 11:117:19:127:16: 125:22;149:16; 132:3;133:23;176:1; 182:8 non-controversial (1) 179:6;185:4;198:1, 204:23 18;200:16;211:8,15; 216:24;222:17; none (8) 129:19;149:2; 238:18;244:1,3; 248:22;251:17 194:7;221:21,21; non-GMO (8) 55:7;56:14;60:24; 45:22;164:13 61:3,4:63:7,9,12 newspaper (2) non-organic (3) 161:2;177:13 221:16,16,18 non-positions (1) 20:22;34:20,24; 204:22 35:8;40:10;50:10; nonprofit (1) 52:3;74:6;76:3;80:23; 79:10 81:10;84:15,19,22,23, non-profit (1) 23;94:3;96:8;97:22; 103:24 98:2,4,10;102:23; nonprofits (2) 117:6,19;151:8; 80:14:97:7 161:9;185:7;199:6, non-recyclable (1) 20;203:5;205:1; 149:16

213:5;214:2;218:21; non-synthetic (5) 219:1;226:13;234:3 187:12:188:9,12; 218:17:229:1 non-synthetics (3) 22:7:83:2:227:3 non-toxic (1) 13:8 nonvlphenol (5) 15:13;17:12,17; 18:5;19:4 noodling (1) 242:18 NOP (27) 36:2:58:6:81:19: 84:6;91:17;106:4,5; 121:1;124:22;126:8, 8;130:2,9;154:17,21; 159:16;167:24; 171:13:203:9:221:14, 14;222:19;252:1,2,3; 254:3,3 nope (2) 157:7;158:6;217:25; 76:23;121:20 normally (2) 48:1;209:11 North (1) 138:22 Northern (4) 100:19;103:21; 124:5:130:22 NOSB (12) 10:8:53:17.18: 54:19:55:23:83:5: 93:22.23:119:10: 216:8:246:9,13 note (7) 12:21;25:13,14; 53:16;97:9;108:23; 109:4 noted (5) 72:14:98:7:187:25: 216:17;229:6 notes (2) 53:1;219:4 notice (2) 61:1;81:23 noticed (3) 39:8;127:2;249:14 228:11;241:17;246:3 no-till (1) 77:22 noting (2) 109:6.12 notion (1) 202:22 nourished (1) 183:13 novel (6) 42:8;54:15;56:15; 86:1;101:11;116:22 November (1) 166:19 Nowadays (1) 151:22

- Vol. 4 April 30, 2024

nowhere (1) 167:20 **NPE (1)** 18:23 NPEs (10) 15:14;16:6,7,16,18, 21;17:7;19:7,8,13 nuance (3) 68:25;140:17; 150:19 number (34) 8:20;13:20;15:8; 39:17:58:6.8:80:23: 107:19;108:11; 109:24;113:21; 115:11,19;117:9; 118:19;120:7;122:5, 10;130:7;138:13; 142:14;144:4,6; 152:12,17;153:12; 158:12:170:18:175:4; 194:11;215:24; 235:25;237:23; 248:18 numbers (8) 19:23;130:12; 143:8;144:8;145:23; 146:2;162:4;170:18 number's (1) 123:11 numeric (1) 124:18 nut(2)96:5:138:20 nutrient (3) 48:7;155:6;162:10 nutrients (6) 20:12;157:9; 158:18,25,25;227:9 nutrition (1) 45:3 nutritionist (2) 43:13,14 nutritionists (1) 42:22 0 objective (1) 83:5 obligation (3) 50:8;59:9;101:9 observer (2) 57:21,21

needing (3)

Burke Court Reporting & Transcription (973) 692-0660 observing (1)

39:10

obsolete (2)

obstacles (2)

181:6.7

obtained (1)

215:12

obvious (2)

91:3;238:2

- Vol. 4 April 30, 2024

Spring 2024 Meeting	1	1	T	April 50, 2024
158:23;161:21	120:5,25;137:3;	189:20;191:11;	114:5;133:23	8:6;24:4,10;113:20;
Obviously (17)	154:11;224:12	193:11;195:16;197:2;	operate (2)	143:25;158:6;174:17;
24:19;26:13;41:1;	Oliver (4)	199:24;200:4;202:2,	130:22;132:7	200:16;247:10
49:15;130:18;131:18;		2;203:12;204:1,2,14,		
	105:16,16,18,20		operated (3)	ordered (1)
132:23;133:2,8,13;	OLPS(1)	18,19;206:7,13,16,19,	132:7;133:22;	10:1
134:13;135:2;140:12;	29:9	23;208:13;209:7,18;	160:10	OREI (1)
141:1;142:20;172:24;	Olympia (1)	210:20;211:23,24;	operating (3)	73:5
191:8	38:18	214:17,18;215:14,14;	95:19;97:16;112:23	Organic (200)
occurred (3)	OMRI (13)	216:16,17;218:22;	operation (4)	7:7;10:22,25,25;
39:9;189:9,9	83:9;84:1;102:15,	219:3;220:23;221:1,	34:5;113:25;	12:15;16:11,12,14;
occurrence (1)	16,19;104:10;111:16;	5;222:7,7,23;223:13;	120:19;189:3	17:13,13;18:15;
215:8	123:21;133:4;139:1;	225:6,16,17,25;	operations (8)	22:20,23;23:7,9;
occurring (2)	154:17;155:24;	226:15;228:22;232:2,	16:18;17:25;33:18;	24:13;25:1,14;27:15;
8:13;118:15	159:11	9;233:13;237:24;	46:5;63:18;135:15;	28:4;36:23;37:2,18;
occurs (1)	OMRI's (1)	241:15,19;244:7,14;	175:10;199:16	38:17;40:17;43:24;
118:17	104:14	247:23;248:23;	operator (7)	44:10,25;49:14;
o'clock (1)	onboard (3)	249:16;252:17	100:18;103:11,20;	50:12;53:22;54:11;
34:8	74:8;93:8;94:23	one-day (1)	132:8,19;154:6;157:4	55:3,5,7,10,14,16;
octanoate (2)	onboarding (2)	154:7	operators (1)	56:19;57:8;58:12;
35:7,13	93:11,15	one-for-one (1)	100:15	59:1,5,5;60:2,12,19;
October (1)	Once (10)	40:20	opinion (7)	61:4;63:8;64:5;70:9;
59:22	32:11,13;39:13;	ones (12)	16:12;37:1;48:1;	74:13,14,15;75:18;
odors (1)	107:1;145:1;146:18;	15:19;22:4;63:8,10;	154:16;249:1,4;	77:8;79:8;81:16;92:4;
111:2	153:15:155:21;	69:4;88:2;89:25;	252:17	100:11;101:6,10;
off (28)	210:16;223:9	108:14;116:18;137:8;	opinions (2)	102:21;104:15;105:2,
6:15;25:15;30:13;	one (197)	139:10;237:6	81:21;95:14	15;110:12,15,20;
32:17;42:20;77:18;	8:17;11:3,24;12:3,	one's (2)	opportunities (4)	115:17;117:17,18;
89:13;92:8;100:24;	16;13:2;15:18;17:14;	127:12;169:3	35:4;60:9,12;174:7	121:6,11,11,12,14,16,
130:13,14,24;138:10;	18:4;20:7,8,8,21;	one-to-one (1)	opportunity (11)	17;122:25;123:12,14,
155:24;162:5;167:14;	21:13;22:6,13,16;	122:12	34:23;35:13;87:15;	17,19;124:14;125:24;
180:20;181:20;184:9,	25:11,13;26:4;27:1;	on-farm (2)	94:24;95:2,14;169:5;	126:2,10,12;129:9;
19;202:7,13;203:6;	30:13;32:3;34:16,23;	100:16;179:7	223:3;244:6;248:11;	131:14,19,25;133:3;
227:19;228:9,11;	35:5,9;37:5,24;38:14;	ongoing (8)	249:6	138:15;139:2;143:10,
243:17;253:24	39:4;40:11;41:24;	66:3;69:6,20;70:8;	oppose (1)	18;144:11,23,24;
offer (5)	44:21;45:5;47:23;	73:10;90:16;92:21;	96:18	146:3,7;147:4,5,6,7,
10:7;62:25;130:4,4;	48:8,12;51:10;52:9,	101:9	opposed (2)	14,25;148:25;149:2,
140:18	22;53:2;56:14;57:3,	online (1)	165:15;242:21	3;151:18;152:6;
offering (1)	19,22;61:3;62:11;	47:18	opposition (1)	153:4;157:11;162:7,
55:7	65:4,9,21;67:21;68:5,	only (35)	188:2	16,17;163:12,22,23;
Office (1)	20;69:19,22;70:5,6,7;	8:6;10:1;15:24;	optimistic (2)	164:6,7;165:5;166:6;
92:25	72:14;73:8;74:7,11;	24:24;37:12;44:16;	181:8,10	167:19;168:9,9,11,25;
Officers (1)	77:20,21;78:8,25;	51:6;57:2,11;58:14;		169:1,11;170:4;
48:21	80:22;83:6;88:15,16,	69:15;83:8,24;88:24;	optimum (1) 154:11	172:21,23;177:12;
official (1)				172.21,25,177.12, 178:2;182:10,13;
	24;89:10,11;91:2;	95:24;121:14;122:14; 136:1;155:3,7;157:7;	option (9)	
98:10	92:2;93:23;94:21;		45:6,7;84:7;85:14;	183:1;189:8;192:10;
officially (2)	95:7;97:20,21;	165:4;171:10;172:9;	88:24;123:19;173:11;	193:5;205:12;206:14;
98:2,7	101:14;102:1;111:11,	179:3;183:9;186:24;	194:4;220:11	208:20;214:5,10;
often (7)	12,20;112:20;116:11,	194:13;205:18;	options (15)	220:3,20,21;221:4,10,
15:8;56:16;59:4;	11;121:21;122:14,15;	206:20;208:19;	45:8;82:18;83:5,8;	23,25;222:1,3,5,10,
98:15;132:1;243:20,	123:14;127:5,11,24;	210:13;220:2;224:8;	85:12,16,17;86:6,7,	11,12,16;223:7,12,22,
20	128:16;129:6,21;	226:4	11,18;87:4;88:14,18,	25;224:2;225:6,16;
Oftentimes (2)	130:18;132:3;133:17;	onto (5)	20	228:12;229:7;234:14,
58:25;92:2	135:1;136:7;139:10;	16:21;26:21,23;	oral (7)	17,17;235:19;238:1,4,
oil (6)	140:16;148:25;	160:4;165:2	8:6;13:6;25:25;	15;239:7,9,14,19;
14:3;204:8;205:20,	151:16;155:7;156:13,	opaque (1)	53:24;188:2;190:5;	240:25;241:2,4,6,8;
20,20,20	16;157:8,11;159:8;	83:19	214:16	245:8;247:6,12,25;
oils (14)	160:8;162:3,22;	open (15)	oranges (1)	249:2,5,8,11;250:11;
15:25;205:3,5,7,8,8,	163:3,7,14;164:22;	73:13;80:19;85:21;	114:15	253:7,7,7
8,14,18;206:3,8,9,13;	165:1,9;166:23,25;	87:15,18,25;88:6;	orchard (2)	organically (1)
207:4	168:18;169:17;172:2;	142:1;144:15;167:16;	162:8;164:6	203:15
Oka (1)	176:11;178:5;179:3,	181:22;188:13;191:2;	orchards (1)	organic-approved (1)
33:25	12;180:14,19;181:20;	192:17;229:12	138:21	206:6
old (5)	187:14;188:4,8;	opened (2)	order (9)	organics (16)
			1	

Spring 2024 Meeting				April 50, 2024
60:24;61:3;103:6;	86:25;87:6;99:21;	68:10;75:8;77:13;		papers (1)
124:1;129:15;131:17,	102:5;110:5;111:5;	82:23;86:25;91:21;	Р	71:23
22,25;132:2;135:2,3;	112:25;113:22;116:4;	93:17;94:10;97:25;	P	paperware (1)
144:22;145:10;166:9;	118:10;122:14;124:3;	99:8;100:1;103:6,22;		135:4
168:21;173:22	126:1;127:5;128:18,	104:7;108:15;109:3,	P&L (2)	paragraph (1)
organic's (1)	20;129:1,21,24,24;	22;111:9;113:13;	189:24;192:18	186:10
37:18	134:5,20;135:7,10;	114:20;116:7,17;	PAA (2)	parallel (2)
organisms (9)	137:7,25;138:14;	141:20;147:7;154:8;	31:10,12	17:11;40:3
16:8;113:7;152:18;	139:9,24;143:7,21;	158:1;162:18;166:2,	pace (2)	paralysis (2)
153:1;205:11,11;	144:13;147:24;148:2,	23;179:20;183:16,23;	41:6;82:10	227:11,16
207:19;211:2;212:14	24,25;149:5,6,15;	185:14,20;186:20;	package (1) 40:21	paraquat (1)
organization (1)	150:1;154:18;156:21;	188:5;199:20;202:16;	packaged (4)	108:10
125:16	160:19;161:13,20;	204:14;226:8;234:9;		parasite (5)
organizations (4)	164:3;166:11,22;	235:19;239:5;240:7;	36:9;136:16,22; 231:6	24:5,9;25:18;29:10;
50:22;79:10;97:6;	167:6,10,16;168:1,2,	242:7	packages (1)	35:2
103:24	2;169:7;173:3;	overall (5)	231:14	parasites (1)
organophosphate (2)	175:24;176:5,6,25;	75:9;140:19;	packaging (23)	28:5
8:3,19	177:3;180:1;183:4,5;	204:22;207:3;237:12	40:16;101:6;	parasiticide (4)
orient (1)	193:17;195:14;198:6;	overarching (2)	117:15;124:21,24,24;	23:3,19;30:12;31:1
104:24	199:1;204:7;206:1,8;	55:2;237:22	125:12,18;128:1,4;	parasiticides (12)
oriented (1)	208:6;211:4;219:13;	overcome (1)	125.12,18,128.1,4, 134:18;136:24;	23:22,23;24:21;
28:4	220:15,25;222:19;	116:8	139:24;150:24;151:5;	25:4;27:4,16,23;28:3;
origin (1)	225:1;226:8,11,16;	overexposure (1)	161:11;170:2;176:5,	29:1,5,6;75:20
215:21	228:2;229:17;230:16,	213:16	23;246:25;247:12,20,	parcel (1)
original (2)	20,21,21;231:19;	overlap (1)	24	133:19
58:6;222:1	239:2,20;240:1,4,19;	112:22	packer (1)	park (1)
originally (1)	241:8,9;242:22;	overload (1)	181:23	133:16
197:20	245:10;247:16	18:3	packing (1)	Parliament (1)
OSA (2)	outbreak (2)	overlook (1)	117:22	118:7
79:24;80:3	38:24;115:21	25:8	pad (1)	part (54)
OSP (3)	outbreaks (3)	overs (3)	137:6	16:15;35:9;40:21;
24:20;37:11;204:17	23:20;112:16;	138:2,3,13	page (1)	52:12;63:5;68:14;
OSPs (2)	159:23	oversee (1)	213:15	69:6;72:14;75:7,13;
202:20;204:15	outcome (1)	46:19	paid (1)	80:25;98:25;105:8,
ostensibly (2)	76:12	oversees (1)	112:15	15;106:1,12;107:16;
126:5;174:15	outdoor (1)	102:20	pain (4)	110:25;119:17;124:6;
others (3)	99:23	overview (1)	49:25;50:4,20;51:5	126:18;129:13;131:8;
45:23;70:15;120:24	outgoing (2)	87:13	painful (2)	133:15;134:9;136:10;
otherwise (4)	94:24;95:2	overwhelmed (2)	60:10;62:13	138:11;141:20;149:4;
112:7;135:16;	outing (1)	62:9;231:3	painfully (1)	150:3;155:23;165:7,
141:2;189:22	109:1	overwhelming (3)	55:13	10;170:3;172:1;
ounce (1)	outlet (1)	92:24;146:25;230:6	pairs (1)	176:24;186:3;188:16;
63:10	172:19	owe (2)	34:6	197:2;211:2;218:25;
ourselves (9) 50:13;55:9;57:10;	outliers (1)	59:9;61:4	pandemic (1)	227:11;230:1;236:11;
	206:25	own (18) 20:19;38:16;59:4,4;	95:22	237:3;239:10,16,19;
61:19;71:19;86:25; 98:4;230:22;245:5	outreach (4)		panel (13)	240:14,16;245:20; 251:1;252:16;253:2
out (152)	102:19;104:1; 199:13,19	62:18;83:4;112:21; 143:21;168:17;169:2;	6:13;99:15,25;	partially (2)
6:13;7:10;11:12;	outs (1)	143.21,108.17,109.2, 180:18,198:6,207:5;	100:6;104:13,20;	144:19,20
12:16;13:2;14:18,20;	104:21	223:16,17,21;235:17,	146:24;184:4;229:16;	participants (1)
15:19;17:1;19:20,23;	outset (1)	223.10,17,21,235.17, 22	230:12;244:14;246:1;	6:8
20:19;21:1;24:23;	78:17	owned (1)	248:16	participate (4)
25:5,16;26:21,23;	outside (8)	132:7	panelist (2)	95:21;127:1;
27:1,2;28:1,6,7;	37:13;84:25;191:4,	owner (1)	100:5;104:4	173:15;238:15
30:15;32:18;33:20;	6;194:4;204:5;220:7,	132:19	panelists (6)	participation (2)
34:9;42:22,23,25;	16	oxalic (7)	100:3;102:13;	95:18;96:3
43:2;45:15;47:4;	outsmart (1)	34:1,1,19;35:1,10,	141:15;151:10;	particular (15)
48:20;49:15;55:17;	60:4	16;36:15	183:11,14	17:14;19:13;35:19;
56:24;57:5,6;58:10;	over (60)	oxygen (7)	paper (17) 131:23;133:1;	45:18;63:18;69:19;
60:20;62:17;63:1;	6:16;7:3;8:21;23:4;	11:11;12:5,7,8,17;	131:25;135:1; 135:6;148:8,9;161:1,	113:4;116:2,10;
64:5,22;70:13,20;	26:1;38:17;39:20;	13:2;14:21	2,6;169:21;176:9;	181:5;196:25;200:24;
71:6,23,24;72:1;	42:1;49:12,20;51:4;	ozone (1)	177:11,14,16,21;	203:19;210:21;
73:13;74:11;79:13;	52:4,14;55:14;67:25;	12:17	235:7;236:17;239:21	237:12
······································	· , ,,,,		233.1,230.11,239.21	

Burke Court Reporting & Transcription (973) 692-0660

- Vol. 4 April 30, 2024

Spring 2024 Meeting	1	1	1	April 30, 2024
particularly (16)	202:24;249:10	121:10;123:2,8;	personally (3)	175:24;205:9,22
16:4,23;28:4;62:11,	pathways (1)	121:10,125:2,8, 124:14;125:6,6,7,8;	31:23;63:24;70:10	PFAS (5)
	70:13		perspective (10)	
13;64:23;83:7,16; 87:24;118:4;121:7;		126:19;128:4;129:18; 135:25;136:1,23;	54:1,20;69:24;70:4,	167:2;169:18,25, 25;170:5
	patience (2)			PFRP (1)
128:2;155:12;214:20;	58:2;82:18	138:3,18,23;144:1;	4;85:24;88:10;	
219:14;253:4	pave (1)	146:3,4;147:14;	162:13;247:6;250:18	120:9
particulate (1)	15:11	153:18;154:8,12;	perspectives (3)	pH (15)
216:4	pavement (1)	155:8;167:6;168:6;	68:13;117:7;162:14	157:10;185:19,22,
parting (1)	167:15	169:10;178:12;187:8,	persuaded (2)	23,25;186:1,1,8,10;
72:19	pay (3)	10;189:14;193:17,17;	91:1,1	197:13;216:14,15;
partly (2)	112:22;174:14;	210:13,14,15;244:8;	pest (5)	217:12,13,16
101:20;252:10	177:2	245:9,10	204:5;206:14;	PhD (1)
partner (2)	paying (1)	percentage (3)	207:18,25;208:15	103:2
220:17;224:11	113:8	144:2;169:11;	pesticide (7)	pheromone (4)
partnering (1)	PCO (1)	179:15	12:6;45:9;81:16;	208:4,16;209:14,15
49:16	83:9	perception (1)	83:13;85:5,6;208:6	pheromones (5)
partners (6)	PDS (4)	77:2	Pesticides (5)	207:14,15,16,25;
16:1;22:24;37:23;	92:13,25;94:1;	perfect (8)	17:15;20:9;82:14,	209:7
175:9;207:22;214:4	97:24	68:6,17;132:15;	15;96:17	philosophical (1)
partnership (1)	pecking (2)	148:15;178:21;	pesto (1)	86:13
133:24	37:22;39:12	225:18;235:11;245:5	63:11	phone (1)
parts (2)	peek (1)	perfection (1)	PET (1)	125:25
153:9;184:8	49:6	69:7	150:12	phosphate (7)
pass (7)	peel (1)	perform (1)	petition (34)	210:5,7,9,10,11,24;
6:16;94:10;109:17;	180:20	205:19	7:18;49:10,19;	211:11
130:13;190:17;227:6;	peer-reviewed (1)	perfunctory (1)	50:19;130:3;185:9,	phosphoric (1)
243:12	54:14	68:11	15,18;186:14;187:24;	11:23
passed (5)	peers (1)	perhaps (5)	190:9,20;227:9,12;	phosphorus (1)
146:13;185:4,5,7;	95:10	72:15;90:19;	228:16;231:9;246:7;	212:20
196:8	pending (2)	178:14;237:21;245:4	248:6,8,10;249:14,21;	photo (2)
passes (1)	211:7,9	period (9)	250:3,3,6,9,13,15,19,	253:25;254:2
67:22	people (60)	8:8,9;27:6;73:15;	20,23;251:8,14;	photograph (1)
passing (1)	7:13;18:18;20:20;	111:9;172:9;214:14,	252:10	109:2
6:14	22:8,16;34:20;46:14;	15;241:20	petitioned (8)	phthalates (2)
passion (2)	49:4;58:9;59:6;60:5,	periods (1)	63:5;184:23;185:1,	69:21;70:6
62:9;71:7	10;61:21;62:23;	26:20	16;198:17;200:23,23;	physical (5)
passive (4)	65:22;79:7;80:3;81:5,	permission (1)	219:24	112:8;157:10;
208:4,6,16,21	6;82:13;110:23;	105:19	petitioner (6)	179:1;204:6,12
past (5)	113:8,17;118:4;	permit (1)	186:16;197:6,10;	physicality (1)
7:3;94:1;116:7;	121:18;127:23;	8:22	198:21,22;222:1	118:16
210:18;214:14	137:23;139:1;140:9;	permitted (4)	petitioners (2)	phytotoxic (1)
Pasture (4)	141:18;142:20,23;	10:21,24;121:24;	51:10:196:11	205:25
24:17,18;26:21,23	143:13,13;145:15;	123:4	petitioning (4)	pick (3)
Pat (9)	149:9;152:11;154:25;	peroxide (18)	49:13;212:12;	27:3;34:10;41:6
102:14,23,23;	162:14;166:22;	10:13,15,19;11:8,	221:9;252:12	picking (1)
119:4,6;120:9;159:9;	167:13;168:22;	11,20;12:19,21,23;	petitions (3)	166:22
166:16;180:22	172:22,24;173:15;	14:4,19;31:13,14,15;	51:8;227:5;251:3	picture (8)
path (12)	174:7;178:11,11,13;	32:4;202:7,9,15	petition's (1)	90:17;114:19;
16:22;27:1,1;86:21;	179:25;181:15;184:5;	peroxyacetic (2)	130:10	129:1;163:24;239:15;
101:2;237:1,2;	193:20,24;204:16;	31:8,9	PETREY (24)	240:4;251:15;254:3
247:12,15,19;253:2,9	207:2,8;244:10;	persist (1)	67:17;184:1,18;	pie (3)
pathogen (5)	245:6;251:12	216:7	190:6,23;194:15;	149:18;165:24;
110:17;120:9;	pepper (1)	persistence (1)	195:18;197:12;198:9,	176:20
137:12;155:1,6	204:8	9:19	14,22;201:21;202:5;	piece (9)
Pathogens (17)	per (5)	persistent (3)	203:6;205:1;207:12;	44:9;69:20;78:23;
107:7;110:23,24;	133:25;134:2;	13:4;65:22;108:11	210:4;213:3;214:24;	104:5;128:23;159:19;
113:20;119:8;153:7,	146:18;189:17,19	person (12)	218:23;226:22;	165:9;176:20;234:21
7,8;157:9,23;158:19;	peracetic (4)	25:7;81:9;95:17;	228:21;229:11;	pieces (6)
159:10,16,18;166:17;	31:8,10,12;32:5	96:3,21;119:8;	253:17	29:4,12;44:6;149:8;
167:3;171:14	perceived (1)	150:15;154:14;163:3;	petrochemical (1)	211:4;243:22
paths (1)	190:4	202:13;226:4;242:3	176:1	pile (15)
251:6	percent (43)	personal (2)	petroleum (5)	102:2;114:8;
pathway (2)	39:7;43:22;52:24;	38:16;46:18	12:10;126:22;	133:18;137:3;153:9;
Paulinay (2)	<i>JJ.1</i> ,7 <i>J.22</i> , <i>J2.2</i> 7,	50.10,70.10	12.10,120.22,	100.10,107.0,100.7,

Spring 2024 Meeting				April 30, 2024
155:13;156:1,8,10;	planting (9)	117:23;146:8;	pores (1)	potty (1)
158:2;171:11,13;	219:9;221:11,16,	211:15	218:5	166:23
172:2;178:10;232:11	18,21,22;224:14,15,	pm (4)	poring (1)	poultry (5)
piles (10)	25	99:19;183:19,19;	49:20	22:19;44:21,23;
101:22,23;102:6;	plants (8)	254:5	porosity (1)	45:1;228:6
106:10;113:19,25;	8:13,25;9:10;16:8;	podcasts (1)	154:25	pounds (3)
114:2,5;233:14,14	106:16;158:24;	59:1	porta (1)	39:17;153:15;
pillars (2)	164:18;207:8	pods (1)	166:23	248:19
58:11;61:4	plastic (53)	176:11	portion (4)	powder (4)
pilot (1)	102:6;108:6;	point (42)	123:13;130:18;	72:8,24;78:3;
117:2	120:20;124:24;	7:10;12:16,20;	135:16;220:4	195:11
pin (1)	125:18;128:13,14;	14:18;19:20;21:1;	portions (1)	POWELL-PALM (49)
160:8	136:7;137:16,16,16,	24:23;25:22;26:10;	132:13	6:18,21;19:17;
pint (1)	19;138:1,7,8;140:8,	28:1,16;30:15;33:20;	pose (1)	22:14,15;23:16,23;
33:15	13,19,24;148:4,7,9,	34:12;37:5;59:10,10;	237:25	24:2;25:13;26:17;
pipe (1)	10,15,18;149:8,9,17;	64:14;71:10;73:16;	posed (1)	30:7;32:13,15;37:6,7;
180:25	150:11;151:6,6;	102:5;114:4;122:13,	246:1	38:11;42:1;49:7,9;
pithy (2)	167:2,2,5,5;169:20,	19;131:16;132:1;	poses (1)	51:6;58:25;60:23;
170:9;172:5	20;172:20;173:1,6;	143:9;147:3;149:5;	16:5	66:22;71:9;76:13,14;
pivot (2)	174:3;175:21;180:6;	150:22;158:11;	position (4)	97:2;161:23;162:3;
101:13;186:8	242:6,20,21,21;245:2,	173:25;175:23;191:4;	86:10;195:10;	165:1,12;167:1,8,17;
pizza (4)	7,8;248:21;249:2,5	194:24;199:13;206:1;	241:15;252:13	188:20;189:12;190:1,
135:8;177:11,19;	plasticizers (2)	223:10;224:24;	positions (2)	22;195:7;196:2;
239:7	69:21;70:6	241:11;244:7;248:12	71:4;96:14	199:7;201:2,8,9;
PLA (2)	plastics (39)	pointed (5)	positive (3)	230:8;242:15;245:18;
150:11;180:5	70:9,9,20;122:6,12,	14:20;47:4;135:6;	7:8;33:23;119:16	248:13,14
place (8)	15,17;126:6,17,18;	220:9;221:13	possibility (1)	powerful (4)
58:16;148:1;	127:14;128:18;	pointing (4)	79:6	76:1;78:10;146:16;
168:14;175:23;	129:13,20;131:2;	19:23;183:4;225:1;	possible (8)	225:14
212:10;216:18;	135:6;139:23;140:15;	226:8	38:1;87:4;88:14;	PPM (4)
235:15;243:21	148:6,20,20;149:5;	points (6)	139:14;203:21;	93:21,25;94:2;
placed (3)	161:1;173:19;174:24,	20:1;137:14,25;	237:16;240:16;	98:12 DDM/a (1)
42:4,4;114:1 places (13)	24,25;175:1,17; 181:18;238:7,19,23;	179:12;197:19; 213:11	241:17 possibly (5)	PPM's (1) 97:22
11:16,17;58:21;	239:16,18;240:2;	poisoning (3)	22:25;37:12;50:14;	PR (1)
114:2;127:9;160:10;	243:25;247:24;253:5	8:3,19;187:8	118:21;190:17	81:23
165:16;166:14;	plate (2)	polarized (1)	post- (2)	practical (1)
173:21;205:5;216:5;	130:17;163:18	9:1	15:4;221:17	250:18
235:7;242:7	plates (1)	police (1)	posted (7)	practically (2)
plain (1)	180:7	179:25	47:18;50:17,18;	13:5,7
7:5	play (3)	policies (3)	51:2;53:2;118:2;	practice (8)
plan (9)	59:23;250:1;251:17	64:22;85:4;150:15	219:5	16:14;29:7;105:6;
18:1;24:20;29:10;	played (2)	Policy (11)	post-harvest (1)	157:19;179:7;185:23;
63:19;92:9;107:12;	71:6;182:8	6:10;53:18;91:14,	225:8	233:22;234:25
178:16;188:15;215:5	playing (1)	22;92:11;93:18,21;	pot (1)	practices (13)
planner (1)	45:15	94:7;102:18;103:9;	244:20	13:24;19:24;23:18;
214:25	plays (1)	109:7	potassium (7)	24:6;105:1;214:12,
planning (2)	100:21	polling (1)	213:5,8,19;214:1,9,	13;216:18,23;219:22;
92:15,17	please (12)	86:8	12,19	220:7,24;235:22
plans (3)	7:13;38:11;66:11;	polymeric (1)	potential (14)	praise (1)
64:2;92:23;162:25	69:3,3;152:15;164:3,	208:22	16:18;17:16;22:19;	64:8
plant (25)	3;203:7;205:3;	polymers (1)	34:23;38:1;40:7;	praising (1)
9:7;13:17;105:3,11;	207:14;218:14	247:2	41:15;42:12;55:4;	184:5
108:13;110:18,24;	pleasure (1)	pond (1)	84:9;140:18;211:12;	pre- (2)
126:23;153:7;158:16,	119:9	197:16	222:16;224:6	15:4;106:1
19;160:5;185:2,20; 186:20,24;202:11;	plenty (7) 126:10;162:20,21;	poor (1) 46:17	potentially (6) 17:10;122:11;	precedent (3) 200:1,6;236:17
213:9;215:7,11,17,18;	126:10;162:20,21; 174:1,2;192:3,6	40:17 pops (1)	126:6;137:23;234:15;	pre-consumer (1)
224:17;235:3,5	PLU (4)	130:24	235:21	182:11
plant-derived (3)	117:12,17;118:2,13	popular (1)	pots (1)	predict (1)
206:2,8;207:7	plug (2)	78:5	235:7	166:19
planted (3)	79:13;218:11	population (1)	pottery (1)	predictable (1)
63:8;221:19;224:13	PLUS (3)	204:5	214:21	57:7
, , , , , , , , , , , , , , , , , , , ,				

preferable (1) 149:19 preference (1) 83:3 preferred (2) 96:3;224:3 pre-harvest (1) 105:23 prelude (1) 34:15 premature (1) 121:17 premier (1) 142:18 premix (1) 39:13 pre-pandemic (1) 123:10 prescribed (1) 157:25 presence (3) 95:25;101:12;107:8 present (4) 25:8;34:13;97:18; 202:15 presentation (7) 61:1;72:22;74:24; 99:12;160:18;179:13; 240:13 presentations (4) 101:15:104:4; 141:17:146:25 presented (4) 35:4;82:3;96:15; 151:21 presenter (1) 25:7 presenters (1) 240:14 presenting (1) 113:14 preserve (2) 38:14;227:9 president (1) 103:15 pressed (1) 170:12 pressure (3) 24:11;42:4;168:15 pressures (1) 42:3 pretty (31) 13:4;17:15;18:9; 20:21;22:9;23:13; 24:3;28:20;34:7; 36:19;41:7;49:3;78:9; 109:12;118:23; 120:25;125:4,7; 127:8,9;139:3;142:8; 144:5;147:6;202:15; 204:1,23;222:5; 232:5,15;252:23

96:2:101:12:105:7 preventative (3) 23:19;24:6,11 prevention (3) 107:12;204:5; 214:21 preview (1) 7:17 previous (1) 83:12 previously (4) 10:5;57:15;64:11; 133:23 price (1) 163:11 prices (5) 7:3;39:4;42:4,5; 44:2 primarily (7) 8:15;16:3;63:6; 203:16,23;204:7; 213:17 primary (3) 8:24;9:7;11:19 primer (1) 35:25 principles (3) 16:12;53:23;241:5 prior (4) 9:22:69:12:178:9: 220:4 priorities (30) 28:6;41:9,11,19; 42:11,24;45:15;66:4; 67:25;68:8,23,24; 69:1,5,6,12;70:1,8; 71:5,11;74:21;78:7, 18,19,21,21,25;79:16; 206:5;221:6 prioritization (1) 71:18 prioritize (1) 68:23 priority (5) 40:14;52:11;69:22; 70:10;73:14 private (4) 80:5;97:6;103:7; 132:8 privately (1) 132:7 privileged (3) 22:21;83:18;168:14 proactive (1) 58:16 probability (1) 47:20 probably (40) 14:20;19:12;23:13; 29:2:69:6:119:20: 120:5;121:13,15,23; 123:20;124:15;125:2; 138:23;142:17;

145:18:150:10; 151:16;152:7;157:17; 159:9;161:18;164:25; 167:10;169:8;173:23; 180:5;183:12;187:20; 188:5,16;202:25; 206:2,3,13;222:2; 223:10:239:25,25; 251:16 problem (29) 14:8;29:18;45:18; 116:1;134:13;137:19; 139:25;147:20,20; 148:6,11;163:19; 175:22;182:22; 193:15;198:3;200:20; 203:22;204:13; 217:11,16;241:25; 242:1;243:9;245:6; 246:3,25;247:6; 248:15 problematic (3) 64:1;150:5;246:20 problems (10) 9:19;10:4;76:17; 77:1,2,2;116:21; 177:4;216:7;244:18 procedure (2) 50:7;87:2 procedures (9) 33:3:53:18:64:23: 85:4;92:11;93:18,21, 22:94:8 proceed (5) 31:5;53:19;82:17; 86:11;236:15 proceeding (1) 24:12process (75) 11:2,3;14:5;18:24; 20:14,16;47:6;54:7,9, 18;55:18,23;57:13; 66:3;68:9;70:22;78:2; 80:5;85:24;86:16; 88:17;90:13,20; 93:15;108:23;109:20, 24;110:2,10,12,21; 111:2,7,8,11,13,21; 112:4,6;116:24; 117:3;123:13;131:8; 132:17;136:10;137:1, 15,25;152:16,19; 153:5,11;156:20; 157:9,24;160:1; 10 185:23;186:11; 199:18;200:9;212:8, 17;213:25;214:8; 236:8,13,15;237:18; 247:13,18;248:5; 249:18,24;251:13,17 processed (2) 110:21;152:2 processes (8)

55:24:84:9:92:14; 93:9;151:2;153:3; 187:4:247:2 processing (6) 100:16:116:17; 129:20;131:11,20; 134:23 processor (1) 230:16 process-wise (1) 196:13 pro-compostable (1) 127:22 procurement (1) 145:16 produce (14) 12:20;27:10;37:2; 38:4;111:11;117:7; 134:6;193:14;227:16; 244:18;246:11; 247:15,16:253:11 produced (6) 8:13;15:25;47:6; 117:24;194:16; 203:15 producer (12) 28:21;32:22;38:17, 22:44:11:46:7; 125:16;132:12; 134:25;139:7;207:4; 233:2 producers (24) 7:2;17:1,22;25:23; 29:9;31:24;33:7; 39:11;40:1;43:3;44:3, 25;46:13;104:22; 150:1;159:12;187:25; 188:1,6,7;190:18; 195:25;214:10;221:1 product (42) 9:9:12:14:14:13: 18:10:20:16:21:16; 42:8;43:19,20; 102:17;107:15,16; 110:5,14,17,19,25; 111:7,8;112:17; 116:15,16;123:18; 129:8;130:4;148:21; 149:8,23;152:3; 158:14;159:24;160:7; 173:7;190:14;195:25; 205:7:210:15.22: 215:11;238:6;249:7, production (67) 9:9;10:16,20,22; 11:15,15;16:14; 22:25;26:20;27:6; 31:23;32:9;34:18,23; 37:23:40:18.23: 42:19:44:6:47:16.21: 100:11:105:2:113:9: 117:18:118:16:

- Vol. 4 April 30, 2024

144:10,24;149:1; 158:16:159:20.21: 160:7.10:164:7; 186:25:187:1.13.15: 191:5,24;192:5,8,10; 193:5,13;200:11,16, 18;207:17;208:20; 214:5,13;215:5,10,11; 216:11,11;220:20; 221:15;222:3;224:22; 227:11;228:5;234:17; 248:17:250:11 productive (1) 46:20 products (44) 10:24;11:22;12:10; 19:12;20:14;21:18, 21,22;30:20,21; 40:23;81:17;85:5; 107:20;108:3;111:17; 114:21;115:9,17; 117:19;125:23; 126:22;127:4;132:2, 18,25;133:4;140:16; 144:11;148:23; 149:22;161:18;171:7, 10;173:4;177:14; 200:9;206:11,14; 207:2;210:13,14,20; 234:14 profile (2) 40:13:114:6 Program (29) 7:7;43:17,25;52:18; 60:20;81:22;86:7,20; 88:10;92:16;93:10; 94:23;102:22;103:12, 23:104:1:111:16: 124:1;134:7;145:16, 16:173:16:231:7: 236:22;237:4;240:21; 246:20;250:7,7 programs (7) 43:18;47:11; 131:11,21;134:12; 140:4;145:15 program's (2) 36:22;89:3 progress (7) 77:17;116:16; 117:1;118:14;182:21; 220:16;240:18 progressing (1) 181:12 progressive (1) 118:17 prohibited (3) 227:3;229:2,4 prohibition (4) 17:16:29:7:30:17; 57:9 project (3) 45:16;73:6;75:20

prevent (3)

Burke Court Reporting & Transcription (973) 692-0660 (32) preferable - project

projects (3) 25:10:81:8:102:20 proliferation (2) 54:13:57:24 prominent (1) 75:11 promised (1) 45:19 promulgate (1) 75:22 promulgated (1) 111:25 proof (2) 61:18;86:23 prop (2) 92:3;99:12 proper (3) 23:14;24:19;102:2 properly (3) 140:19,21;148:23 properties (1) 16:9 proportions (1) 143:23 proposal (21) 40:3;52:9,10;53:13; 58:2;59:11;61:9;63:3; 66:13,18;85:17;87:4, 17;88:4;92:12;184:9, 22,24;185:13;187:2; 237:3 proposals (7) 80:15,19:85:12; 87:17,18,25;95:15 proposal's (1) 58:22 propose (1) 17:6 proposed (3) 58:7:61:11:81:23 proposing (1) 76:21 pros (1) 238:14 prospect (1) 71:22 protect (4) 27:5;55:9;197:15; 203:15 **Protection (2)** 44:19:113:11 protective (1) 82:12 protein (6) 39:3;40:15,23: 43:21;57:2,3 proteins (5) 40:19;54:15;56:15; 57:3,4 prove (1) 166:14 provide (22) 36:4;37:20;38:3;

43:15:44:10:49:25; purity (1) 172:22 50:5.8:63:13:70:17: purpose (4) 81:20;84:25;85:20; 94:24;131:10;140:1, 114:25;176:1; 200:18:237:12 10;162:20;166:6; 181:22;226:12; purposes (4) 252:24 21:12;63:2;206:9; provided (13) 217:7pursuing (1) 17:15,20;40:12; 49:19,21;64:11;84:4, 40:6 8;101:2;116:6;117:8; push (3) 206:20;220:6 150:25;179:16; 229:25 provider (2) 136:17:141:4 pushed (1) provides (2) 34:20 55:22;93:21 put (53) 28:6;30:23;41:12, providing (3) 40:1;56:8;91:11 12;43:18,19;51:4; provision (1) 118:8 proxy (1) 106:23;108:18; 211:1 113:22;127:19; pseudo-(1) 116:23 134:5,25;135:17; public (43) 136:6,14,20,21,22; 17:9,20,21;50:24; 53:25;54:18;55:1; 10;149:9;163:15; 56:21;58:7,8,18; 64:17;72:7;74:12; 174:24,25;176:22; 80:17,18;84:16; 88:21:94:12:96:10, 22:97:4.21:98:8: 103:7.17:159:14: 245:10 190:4.10:199:24: puts (1) 239:7 209:20.22:216:8: 220:23;229:3.5; putting (15) 230:19,22,24;232:7; 14:7;21:3;40:22; 233:21;234:22;239:6 public/private (1) 112:25;116:12; 133:24 145:17;146:24; publications (1) 164:12:166:11: 45:20 publicly (1) puzzle (2) 132:7 29:12;44:9 Puget (1) 38:21 pull (4) 129:1;148:2,24; **Q&A**(1) 219:4 104:6 pulled (4) QCS (1) 124:3;148:24; 187:14 149:4.6 **QR**(1) pulling (3) 117:20 34:9;58:6;147:23 qualities (1) Puma (1) 15:3 125:25 quality (12) pumice (1) 38:22;46:17; 135:14 101:10;111:8,17; punch (4) 29:21:30:1:97:25; 132:25;158:14; 98:3 223:19:238:6 quantify (1) pure (2) 15:7;164:15 94:4

quantities (8) 8:23;9:17;10:2; 12:19;13:15,19;47:2; 215:25 quantity (1) 153:12 **QUARCOO** (44) 7:22,25;10:14;52:6; 56:1;57:25;58:24; 60:14;64:7;65:4,19; 67:1,24;70:25;73:3; 74:3;75:1;76:3;77:11; 78:13;79:2;80:22; 81:11;85:22;86:15; 87:7,10;89:4;90:23; 91:7;172:18;173:9; 193:10;194:19; 200:15;201:11; 207:15;209:21,24; 62:19;66:9;79:5;88:1, 15;89:8;91:10;96:17; 215:3;216:25;217:10; 245:19,24 quest (2) 128:21;129:9;133:5; 68:6;69:6 question's (1) 160:20 138:16;139:23;140:3, queue (11) 60:14;96:25;142:2; 168:21;169:4;172:18; 159:8;169:16;170:7; 172:15;188:17,18; 184:11:200:2:218:2: 242:12:245:17 233:24;239:2;241:2, quick (16) 20:242:6:244:11.25: 6:23:25:13:27:21: 33:12:34:4:35:24; 36:12:46:17:49:6: 81:18:86:15:90:9; 142:8;181:13;204:1; 229:8 87:25;109:7;110:3; quickly (14) 13:4;14:2,21;31:16; 65:24;71:3;76:4; 119:24:124:7:125:4: 239:24;244:20;245:8 144:5:178:24:206:3; 231:8 quirky (1) 42:9 Q quite (9) 7:4;26:13;105:8; 124:5;197:1;210:10, 10;239:22;248:19 quo (1) 167:25 quotes (3) 46:12;108:18; 177:24 R rabbits (1) 112:8;113:2;121:17; 203:16 racemic (2) 9:1.3 radicals (1) 12:17

- Vol. 4 April 30, 2024

rain (1) 212:21 rainy (1) 114:8raise (1) 217:12 raised (4) 82:11:250:13,14; 252:9 raiser (1) 24:8 raises (1) 91:5 raising (1) 17:3 ramble (1) 230:2 ranching (1) 34:5 range (10) 8:17;26:11;27:2; 43:2;106:21;134:3; 164:7;175:12;202:19; 205:8 rangeland (2) 24:19;164:12 ranges (1) 105:3 rank (1) 78:22 ranking (2) 69:11:78:25 rant(1) 27:18 rapid (1) 203:25 rapidly (1) 14:1rarely (3) 120:4,5;166:24 rate (2) 124:14;129:18 rather (19) 26:15;39:6;87:1; 88:1;95:24;96:12; 99:3;149:8,10; 151:13;154:25;155:5; 157:8;167:3;174:23, 23;231:8;235:18; 248:22 ratings (1) 111:11 ratio (20) 120:3;146:12; 152:5,6;154:9,11,16, 24;155:4,10,14,16; 156:18,20,24;157:6, 15;233:9,15,20 ration (3) 39:7:42:23,23 rations (4) 43:2;46:1,2,25 ratios (1)

Spring 2024 Meeting				April 30, 202
157:2	76:25;77:13;78:4,17;	recall (1)	7:13,15	238:4
raw (4)	79:9,10;82:11;87:14,	20:22	recruiting (2)	reflected (2)
105:22,25,25;228:8	22;89:8;101:23,23;	recalls (1)	32:19;71:3	25:25;53:1
reach (4)	102:4;104:25;105:14;	159:23	recyclable (4)	reflecting (3)
78:8;113:19;197:5;	106:17;115:4,18;	receive (5)	124:25;125:13;	68:20;200:9;234:25
253:19	119:14,16,19,24;	51:8;82:1;83:25;	161:10;176:10	reflection (2)
react (2)	120:4;121:15,18;	86:7;96:10	recyclables (1)	49:3;170:16
107:12;249:16	122:20;124:7,23;	received (20)	133:1	reflective (3)
reaction (7)	125:12,20;126:7,17;	10:9;14:12,13;	recycle (5)	68:12,12;95:5
9:6;11:5;89:10;	127:18;129:12;131:7,	47:17;49:10;53:7;	132:11;148:9;	reflects (2)
208:11,14;227:7;	11;132:17,20;133:12,	77:24;81:22;82:5;	150:12;152:5;175:19	9:1;158:14
249:15	12;134:23,24;137:9;	97:21;100:15;107:1;	recycled (5)	refresh (2)
reactions (1)	141:17;143:2;144:7,	109:3;112:15;114:9;	141:8;161:2;	93:7;101:4
12:15	12,25;145:2,4;	187:22;188:2;209:6;	176:25;177:16,21	refresher (1)
reactive (2)	146:19;149:25;	222:11;229:3	recycler (3)	198:20
107:9;108:24	151:12;154:4,9,9,18,	receiving (2)	130:21;132:9;	refreshing (1)
read (8)	20;156:5,16,19;	61:14;62:3	161:13	93:6
23:3;56:17;65:15;	157:6;162:6,8,12;	recent (3)	recyclers (1)	regard (1)
87:12;102:15;226:16;	163:4,15;164:17,20;	81:18;220:24;	131:10	113:11
228:18;231:5	165:7,23;168:7,22;	221:14	recycling (31)	regarding (2)
reading (3)	169:25;173:25;	recently (6)	103:7,17,18,18,20,	213:19;214:9
37:11;194:10;	176:10,19;178:24;	44:18;56:10;76:20;	21,23,24,25;133:7,16;	regardless (3)
228:17	180:3;181:13;182:2;	114:22;214:15;	137:17,22;149:24;	192:19;215:22,23
ready (3)	183:9;187:19;190:20;	221:10	150:17;151:11;152:2;	regards (1)
201:7;207:9;220:17	191:4;194:23;196:23;	reception (1)	168:20;174:21,21,25,	54:12
reaffirm (1)	198:8;199:15,19;	6:6	25;175:1,12,14,21,25;	regenerate (1)
88:10	205:12,15,16;206:13,	recess (2)	176:3,18;242:1;	11:8
real (7)	17,24;212:1,11;	229:15;253:20	243:25	region (2)
36:12;80:10;93:15;	217:21;218:12;	Recessed (4)	redo (1)	133:22;139:8
117:13;122:6;166:12;	219:16;220:1,8;	52:1;99:19;183:19;	248:5	regional (2)
230:10	222:2;223:8,15;	254:5	reduce (8)	130:22;132:21
reality (4)	225:12;226:3,5;	recite (1)	28:4;129:12;	regionally (1)
95:22;97:15;	229:19;230:15,17,18,	67:24	137:13;138:13;	30:12
150:17;160:13	21;231:2,5,6,10,11;	recognition (2)	139:13,20;171:14;	register (2)
realize (4)	232:23;235:1;239:9,	97:15;245:7	176:14	123:17,18
175:20;176:3;	22;240:12;243:21;	recognize (3)	reducing (6)	registrar (1)
229:17,22	244:21;246:4,8,14,16;	17:1;131:19;236:19	18:14;44:18;84:5;	50:19
realized (1)	247:25;248:3,11;	recognized (2)	124:24;165:10;233:4	regret (1)
23:4	249:21;250:1,1,4,4;	13:22;56:25	reduction (8)	228:15
realizing (3)	251:17;252:24;	recognizing (3)	11:4,5;100:20;	regrow (3)
42:18;128:12;	253:15	125:10;126:12;	120:9;137:12;155:1,	158:4,6,22
188:15	realm (1)	139:6	6;178:25	regular (1)
really (227)	150:14	recommend (1)	reexamined (1)	73:20
6:24;7:1,6,8,15,18;	reason (18)	98:2	113:13	regularly (2)
14:16,19;15:17;	27:3;88:25;122:6;	recommendation (10)	refer (2)	9:23;106:9
16:10,11,23;17:19;	146:13,13,14;155:21;	20:15;33:1;53:19;	15:13;113:22	regulated (1)
18:2;20:4,4;24:16,22;	165:14;174:20;	55:23;81:21;231:7;	reference (10)	31:19
25:18;26:9;27:8;	190:25;192:9;197:10;	232:19;237:3;238:12;	19:7;85:14;113:1;	regulating (1)
28:11,13,13,17,21;	212:9,19,24;249:22;	250:12	122:8;182:24;235:2,	179:7
29:13;30:2;31:3;	250:24;251:7	recommendations (3)	4,10;236:1;247:9	regulation (5)
32:11,18,20;33:4;	reasonably (2)	54:8;81:20;93:2	references (2)	29:5;103:10;236:2;
37:5,8;38:5,6,24;	49:24;156:9	recommended (4)	213:14;235:7	237:25;249:3
39:25;40:22;43:1;	reasoned (1)	10:7;13:23;213:13;	referencing (3)	regulations (5)
45:9;46:19;47:1,5,23;	250:24	219:22	89:23;131:14;	8:20;48:12;101:7;
49:18;50:5,10;51:9;	reasons (4)	reconvene (4)	235:18	209:8;238:4
52:16;56:12,17,18;	95:16;144:20;	52:1;99:19;183:19;	referred (2)	regulatory (7)
57:6;58:11,22;59:11,	148:24;162:9	254:6	82:24;145:1	57:6;60:13;82:16;
11,22;60:1,9;61:21,	re-baggers (1)	record (4)	referring (1)	238:12;247:4,8,10
24;62:1;65:17;68:22;	138:25	21:4;91:19;157:18;	246:12	reinforced (1)
69:21;70:3;71:6,13,	re-blenders (1)	189:4	refined (2)	119:12
15,19,21,21;72:6;	138:24	recovery (2)	85:16;205:9	re-ingest (1)
73:20,22;74:21,25;	rebuild (1)	124:14;125:23	reflect (4)	165:18
75:4,4,8,13,19,21;	225:11	recruit (2)	70:2;96:7;97:17;	reinvest (1)
/2.1,1,0,12,17,21,	220.11		10.2,20.1,21.11,	

- Vol. 4 April 30, 2024

117:18 reiterate (1) 241:10 reiterated (1) 53:16 rejoinder (1) 194:1 relate (1) 247:21 related (9) 19:14;20:16;29:5; 64:10,23;69:16; 103:10:109:15: 219:19 relates (2) 83:16;182:4 relating (1) 19:22 relationships (1) 17:25 relatively (6) 47:2:124:9:154:10: 174:6:190:14:236:14 release (1) 209:13 released (5) 11:9;12:12;13:16, 19:216:5 releasing (5) 10:7.8:14:13:209:6; 216:19 relevance (1) 32:7 relevant (5) 28:10;81:1;100:23; 102:4;194:6 reliable (1) 101:3 relic (1) 238:3 relief (3) 49:25;50:4,8 relieve (1) 24:10 reliever (1) 50:20 religiously (1) 157:14 relist (1) 211:13 relisting (11) 22:6;35:20;46:14, 15;47:4;206:16,22; 211:23;214:17;220:2; 221:1 relive (1) 19:11 relocate (2) 207:23;234:20 relook (1) 101:3 reluctance (1) 36:22

rely (2) 84:8:246:17 remain (5) 37:1:58:14:153:1.2: 221:19 remains (5) 31:23;32:9;36:23; 160:6;214:13 remarkable (2) 49:11:51:9 remediation (1) 227:14 remedy (1) 91:3 remember (13) 20:10;74:7;80:3; 113:15;131:2;140:7; 143:2;152:20;153:6; 186:16,19;210:19; 243:20 remembering (2) 88:13:158:17 remind (1) 20:6 reminded (1) 68:3 reminder (3) 20:2;93:12;201:6 removal (3) 36:25:178:6,9 remove (1) 35:13 removed (4) 23:25:136:14: 221:2,3 removes (1) 136:24 removing (2) 137:15:178:12 renew (1) 211:13 renovation (1) 167:13 repeat (2) 88:10;197:9 repeated (2) 33:17;154:17 repeating (1) 30:11 repellent (1) 203:20 repellents (3) 203:12,14,18 re-petition (1) 198:19 replace (1) 140:24 replacement (1) 40:20 replacements (1) 127:15 report (5) 6:24;61:10;63:1;

73:9:213:16 reported (6) 9:19:83:9.24:91:18; 204:11:229:7 reports (4) 79:25;80:1;96:20; 102:21 represent (2) 97:6;121:3 **Representative (2)** 156:7,8 representatives (2) 83:14;97:15 represented (2) 28:20;95:14 reprocess (3) 138:2,6,13 request (10) 47:15;53:8;80:7; 185:18;188:10; 197:10;219:4;236:24; 237:6:250:8 requested (3) 185:11;186:23; 221:25 requesting (2) 46:16;54:17 requests (5) 54:1;61:18;62:1; 92:22:250:12 require (3) 31:18:172:6:221:16 required (10) 57:17;63:5;105:2; 129:13:136:14,19; 137:10;168:18;169:4; 221:23 requirement (7) 29:9:170:22:171:1. 17:232:22:233:5,18 requirements (15) 56:4,6:92:5:101:6: 109:4,25;111:12; 112:21;113:5;155:24; 158:9;170:16;191:20; 234:16;238:1 requires (3) 159:11;185:25; 186:8 requiring (2) 96:14:178:9 reread (1) 55:1 research (66) 28:6,8;36:14;40:14; 41:9,10,15,22;42:11, 24;45:14;52:11;66:4; 68:8;69:20,21;70:8, 10,12,13,18,19;71:5, 10,14,21,24;72:2,7; 73:10,17;74:14,21; 75:14,15:76:7,7:78:4, 7;79:16;80:25;81:2,8;

92:21;102:24;111:10; 113:6:116:4.5.6: 118:17:119:15; 120:23:159:11: 164:14,15,15;190:5; 206:5,6,10:210:23; 211:8;220:12;221:6; 223:3 researcher (4) 79:9;85:2;102:24; 144:25 researchers (3) 42:25:76:21:78:20 research-wise (1) 81:4 Residentially (1) 136:5 residents (1) 123:23 residue (5) 205:14:234:6.13, 14.15 resilient (1) 43:4 resin (2) 180:4.7 resistance (4) 26:25;31:25;57:16, 17 resolvable (1) 182:22 resolve (1) 39:21 resource (3) 38:12:95:7;141:21 resources (3) 38:15;49:21;129:4 respect (3) 82:20;119:12; 144:14 respond (2) 109:9:195:2 responded (3) 206:23;214:10,11 responder (1) 214:18 responding (2) 107:10;196:20 response (2) 81:22;129:18 responses (4) 82:1:129:18: 205:24;216:23 responsibilities (5) 93:11,23;94:9;95:4; 174:8 responsibility (6) 39:2;95:13;125:16; 239:15;242:19;250:7 responsible (2) 242:23:245:8 rest(7) 15:14:89:14:

- Vol. 4 April 30, 2024

104:20;118:21; 136:25:138:23: 183:21 restate (1) 245:23 restaurant (1) 243:21 restrict (3) 18:15;46:16;200:25 restricting (1) 18:25 restriction (3) 17:23:18:13:47:8 restrictions (5) 8:4,7,10;9:15; 185:19 result (1) 71:17 results (5) 43:4;61:14,22;76:6, 9 retailers (2) 179:13.17 retailer's (1) 59:15 retelling (1) 81:18 retrievable (1) 208:22 reusable (5) 124:25:125:13; 141:7:149:21:243:23 reverses (1) 33:9 review (46) 17:24;18:5,7;19:1; 20:17,22;28:2;52:10, 18;53:5,7,17;54:1,7; 55:18,21,23,24;57:12; 61:17:63:6;64:20; 65:15;84:9;85:4; 90:13,20;94:12; 102:17;104:19; 114:14;212:14; 213:10;214:1,8,19; 216:8;217:20;220:14; 221:17;226:13;232:8, 24;233:5,23;247:18 reviewed (10) 65:17;90:12;98:5,6; 197:2:210:18,21; 217:3:219:13:222:18 reviewer (1) 76:20 reviewing (2) 21:14;106:9 reviews (10) 6:25;22:2;47:17; 54:11;61:12;92:21; 106:13;211:9;220:1,5 revise (1) 226:2 revisiting (2)

Burke Court Reporting & Transcription (973) 692-0660 (35) reiterate - revisiting

Spring 2024 Meeting	1	T		April 30, 2024
63:25;100:22	risk (6)	171:22	160:22,24;170:21;	184:16
reward (1)	44:16;153:17,20,	RUCH (1)	171:11;180:13;	scheduled (1)
166:8	21;166:7;178:7	88:8	191:14;195:20;248:6;	170:8
		rule (7)	250:4;253:12,23	
rewritten (1)	risks (4)			scheme (1) 236:24
167:18	45:5;105:25;	24:13;36:8,10;	sample (4)	
Rhodes (3)	166:12;238:14	58:12;100:24;151:19;	155:5,6;156:13;	schemes (1)
179:19,22;180:12	river (1)	157:16	172:11	134:14
rhubarb (1)	216:6	rulemaking (24)	samples (5)	school (2)
36:16	road (1)	36:22;81:23;86:22;	153:13,16,16;	37:16;140:9
rid (4)	164:21	88:14,17,19,20,24,25;	156:1;172:13	schools (1)
21:20;77:7;153:7;	Roads (1)	250:3,6,8,9,13,16,19,	San (7)	55:3
227:23	86:3	21,23;251:2,4,8,9,11,	103:24;131:5;	science (13)
ride (1)	roadsides (1)	15	133:14;242:2,3,4,7	39:18,22;120:22;
183:7	165:16	rules (11)	sand (1)	154:10,10,11,23;
right (136)	robots (1)	18:3;49:4;58:6;	219:21	155:8,10;157:13;
6:22;7:20;9:2,2;	137:23	106:4;113:2,12;	sandwich (1)	166:13;193:13;
10:12,14;14:23;21:6;	robust (4)	139:22;141:2;160:24;	240:8	225:20
22:13;23:7,18;26:6,	109:13;124:8;	235:23;250:22	sanitizer (8)	science-based (1)
16;31:9;36:15;37:18;	128:3;253:15	ruminants (1)	10:22;14:19;21:11;	58:16
42:20;46:23;48:24;	role (10)	47:5	31:10,22;202:10,22,	sciences (1)
59:6;60:14;61:9;	22:23;73:7;93:18;	run (8)	24	103:3
62:18;78:13;79:20;	94:22;95:3,7;100:21;	13:17;47:14;96:25;	sanitizers (2)	scientific (2)
80:8,13;81:11,15;	238:8;252:11,15	131:11;136:24;	31:19;32:12	53:21;128:3
82:3;84:21;88:14,18,	roles (4)	137:14;149:16;170:8	sanitizing (2)	scientifically (1)
22;89:1,7;90:4;91:8,	92:16;94:8,21;	rundown (1)	31:25;32:1	159:2
24;100:4,13;102:3;	95:12	36:4	Santa (1)	scientist (2)
104:9;108:24;122:21;	roll (3)	running (2)	164:16	45:16;194:9
126:8;127:5,20,20;	6:19,19;184:16	97:25;142:2	satisfy (1)	scope (7)
128:21,21;131:8,16;	roller (2)	runoff (1)	10:7	16:16;185:11;
132:10;133:13,14;	77:23;78:10	16:22	saturating (1)	186:23;213:17,23;
135:20;136:12;137:3;	rollout (1)	rural (1)	146:10	219:5;233:13
138:4;139:1,20,25;	61:11	163:7	save (3)	scrap (2)
141:18;145:4,25;	romaine (2)	Russell (1)	100:9,10;195:11	131:23;134:4
146:4;147:18,19,24;	160:5;166:20	145:1	saw (7)	scraps (23)
148:18;150:5,10;	Ron (1)		37:10;49:13;	121:23;124:12;
151:4;153:25;154:1;	120:1	S	170:17;196:21;	129:12;133:19;135:2,
155:1,9,22;156:1,19;	room (4)		235:14;242:12,13	17;136:1,2,9,23;
157:19;159:16;	17:6;84:21;87:12;	Sacramento (3)	saying (23)	137:11;139:19;140:7,
160:23;161:4,16;	253:22	132:22;133:21;	10:2;42:12;43:21,	10,18;145:25;146:4;
162:6;164:21;165:18;	roots (1)	164:4	25;59:6;63:17;71:14;	149:10;156:4;163:1,
167:20,21;169:21,25;	158:24	saddened (1)	77:1;100:9;123:25;	10;173:2,16
171:21,25;172:10;	ropes (2)	242:15	130:6;153:21;186:19;	screen (5)
174:22,25;175:1,3;	65:25;66:5	safe (6)	189:14;193:24;	66:11;138:3,4,5;
176:13,20;179:20;	rotary (1)	13:22;57:1;202:22;	196:16;200:19;	179:5
180:14;181:4;183:8;	9:2	207:8;213:12,25	211:17;212:16;	screened (2)
188:7;207:15;210:6;			,	
	rotation (2)	safely (1)	218:24:238:25:	112:8:183:5
	rotation (2) 24:19:105:4	safely (1) 183:13	218:24;238:25; 241:12:242:19	112:8;183:5 screening (3)
212:6;213:6;214:6;	24:19;105:4	183:13	241:12;242:19	screening (3)
212:6;213:6;214:6; 215:3;219:3,4;	24:19;105:4 rotations (1)	183:13 safety (8)	241:12;242:19 SB (5)	screening (3) 137:24;178:13,14
212:6;213:6;214:6; 215:3;219:3,4; 222:20;223:6;225:3;	24:19;105:4 rotations (1) 42:6	183:13 safety (8) 13:23;54:15;	241:12;242:19 SB (5) 124:17;125:12;	screening (3) 137:24;178:13,14 scrutinized (2)
212:6;213:6;214:6; 215:3;219:3,4; 222:20;223:6;225:3; 228:21;231:15;	24:19;105:4 rotations (1) 42:6 rotatory (1)	183:13 safety (8) 13:23;54:15; 102:25;112:19;	241:12;242:19 SB (5) 124:17;125:12; 134:8,16;161:11	screening (3) 137:24;178:13,14 scrutinized (2) 107:4,4
212:6;213:6;214:6; 215:3;219:3,4; 222:20;223:6;225:3; 228:21;231:15; 232:13;233:3;235:15;	24:19;105:4 rotations (1) 42:6 rotatory (1) 9:3	183:13 safety (8) 13:23;54:15; 102:25;112:19; 159:19;206:21;	241:12;242:19 SB (5) 124:17;125:12; 134:8,16;161:11 SB54 (1)	screening (3) 137:24;178:13,14 scrutinized (2) 107:4,4 se (1)
212:6;213:6;214:6; 215:3;219:3,4; 222:20;223:6;225:3; 228:21;231:15; 232:13;233:3;235:15; 236:6,15,20,22;	24:19;105:4 rotations (1) 42:6 rotatory (1) 9:3 Roughly (1)	183:13 safety (8) 13:23;54:15; 102:25;112:19; 159:19;206:21; 212:13;238:5	241:12;242:19 SB (5) 124:17;125:12; 134:8,16;161:11 SB54 (1) 176:25	screening (3) 137:24;178:13,14 scrutinized (2) 107:4,4 se (1) 146:18
212:6;213:6;214:6; 215:3;219:3,4; 222:20;223:6;225:3; 228:21;231:15; 232:13;233:3;235:15; 236:6,15,20,22; 242:11,18;243:13;	24:19;105:4 rotations (1) 42:6 rotatory (1) 9:3 Roughly (1) 126:18	183:13 safety (8) 13:23;54:15; 102:25;112:19; 159:19;206:21; 212:13;238:5 salicylic (1)	241:12;242:19 SB (5) 124:17;125:12; 134:8,16;161:11 SB54 (1) 176:25 scale (3)	screening (3) 137:24;178:13,14 scrutinized (2) 107:4,4 se (1) 146:18 sea (1)
212:6;213:6;214:6; 215:3;219:3,4; 222:20;223:6;225:3; 228:21;231:15; 232:13;233:3;235:15; 236:6,15,20,22; 242:11,18;243:13; 244:6,17;245:19;	24:19;105:4 rotations (1) 42:6 rotatory (1) 9:3 Roughly (1) 126:18 round (11)	183:13 safety (8) 13:23;54:15; 102:25;112:19; 159:19;206:21; 212:13;238:5 salicylic (1) 11:22	241:12;242:19 SB (5) 124:17;125:12; 134:8,16;161:11 SB54 (1) 176:25 scale (3) 103:8;117:2;220:13	screening (3) 137:24;178:13,14 scrutinized (2) 107:4,4 se (1) 146:18 sea (1) 128:13
212:6;213:6;214:6; 215:3;219:3,4; 222:20;223:6;225:3; 228:21;231:15; 232:13;233:3;235:15; 236:6,15,20,22; 242:11,18;243:13; 244:6,17;245:19; 249:4;250:20;254:1	24:19;105:4 rotations (1) 42:6 rotatory (1) 9:3 Roughly (1) 126:18 round (11) 6:13;53:14,24;	183:13 safety (8) 13:23;54:15; 102:25;112:19; 159:19;206:21; 212:13;238:5 salicylic (1) 11:22 salmonella (4)	241:12;242:19 SB (5) 124:17;125:12; 134:8,16;161:11 SB54 (1) 176:25 scale (3) 103:8;117:2;220:13 scarcity (1)	screening (3) 137:24;178:13,14 scrutinized (2) 107:4,4 se (1) 146:18 sea (1) 128:13 seal (4)
212:6;213:6;214:6; 215:3;219:3,4; 222:20;223:6;225:3; 228:21;231:15; 232:13;233:3;235:15; 236:6,15,20,22; 242:11,18;243:13; 244:6,17;245:19; 249:4;250:20;254:1 rights (1)	24:19;105:4 rotations (1) 42:6 rotatory (1) 9:3 Roughly (1) 126:18 round (11) 6:13;53:14,24; 61:11;68:2;98:10;	183:13 safety (8) 13:23;54:15; 102:25;112:19; 159:19;206:21; 212:13;238:5 salicylic (1) 11:22 salmonella (4) 107:7;158:3,8,20	241:12;242:19 SB (5) 124:17;125:12; 134:8,16;161:11 SB54 (1) 176:25 scale (3) 103:8;117:2;220:13 scarcity (1) 192:3	screening (3) 137:24;178:13,14 scrutinized (2) 107:4,4 se (1) 146:18 sea (1) 128:13 seal (4) 55:14;139:4;189:8;
212:6;213:6;214:6; 215:3;219:3,4; 222:20;223:6;225:3; 228:21;231:15; 232:13;233:3;235:15; 236:6,15,20,22; 242:11,18;243:13; 244:6,17;245:19; 249:4;250:20;254:1 rights (1) 37:24	24:19;105:4 rotations (1) 42:6 rotatory (1) 9:3 Roughly (1) 126:18 round (11) 6:13;53:14,24; 61:11;68:2;98:10; 135:19;141:16;	183:13 safety (8) 13:23;54:15; 102:25;112:19; 159:19;206:21; 212:13;238:5 salicylic (1) 11:22 salmonella (4) 107:7;158:3,8,20 salts (1)	241:12;242:19 SB (5) 124:17;125:12; 134:8,16;161:11 SB54 (1) 176:25 scale (3) 103:8;117:2;220:13 scarcity (1) 192:3 scare (1)	screening (3) 137:24;178:13,14 scrutinized (2) 107:4,4 se (1) 146:18 sea (1) 128:13 seal (4) 55:14;139:4;189:8; 241:3
212:6;213:6;214:6; 215:3;219:3,4; 222:20;223:6;225:3; 228:21;231:15; 232:13;233:3;235:15; 236:6,15,20,22; 242:11,18;243:13; 244:6,17;245:19; 249:4;250:20;254:1 rights (1) 37:24 ring (1)	24:19;105:4 rotations (1) 42:6 rotatory (1) 9:3 Roughly (1) 126:18 round (11) 6:13;53:14,24; 61:11;68:2;98:10; 135:19;141:16; 183:14;195:5;229:3	183:13 safety (8) 13:23;54:15; 102:25;112:19; 159:19;206:21; 212:13;238:5 salicylic (1) 11:22 salmonella (4) 107:7;158:3,8,20 salts (1) 157:10	241:12;242:19 SB (5) 124:17;125:12; 134:8,16;161:11 SB54 (1) 176:25 scale (3) 103:8;117:2;220:13 scarcity (1) 192:3 scare (1) 166:20	screening (3) 137:24;178:13,14 scrutinized (2) 107:4,4 se (1) 146:18 sea (1) 128:13 seal (4) 55:14;139:4;189:8; 241:3 search (1)
212:6;213:6;214:6; 215:3;219:3,4; 222:20;223:6;225:3; 228:21;231:15; 232:13;233:3;235:15; 236:6,15,20,22; 242:11,18;243:13; 244:6,17;245:19; 249:4;250:20;254:1 rights (1) 37:24 ring (1) 208:13	24:19;105:4 rotations (1) 42:6 rotatory (1) 9:3 Roughly (1) 126:18 round (11) 6:13;53:14,24; 61:11;68:2;98:10; 135:19;141:16; 183:14;195:5;229:3 Roundup (1)	183:13 safety (8) 13:23;54:15; 102:25;112:19; 159:19;206:21; 212:13;238:5 salicylic (1) 11:22 salmonella (4) 107:7;158:3,8,20 salts (1) 157:10 same (22)	241:12;242:19 SB (5) 124:17;125:12; 134:8,16;161:11 SB54 (1) 176:25 scale (3) 103:8;117:2;220:13 scarcity (1) 192:3 scare (1) 166:20 scares (1)	screening (3) 137:24;178:13,14 scrutinized (2) 107:4,4 se (1) 146:18 sea (1) 128:13 seal (4) 55:14;139:4;189:8; 241:3 search (1) 109:13
212:6;213:6;214:6; 215:3;219:3,4; 222:20;223:6;225:3; 228:21;231:15; 232:13;233:3;235:15; 236:6,15,20,22; 242:11,18;243:13; 244:6,17;245:19; 249:4;250:20;254:1 rights (1) 37:24 ring (1) 208:13 Rink (1)	24:19;105:4 rotations (1) 42:6 rotatory (1) 9:3 Roughly (1) 126:18 round (11) 6:13;53:14,24; 61:11;68:2;98:10; 135:19;141:16; 183:14;195:5;229:3 Roundup (1) 57:16	183:13 safety (8) 13:23;54:15; 102:25;112:19; 159:19;206:21; 212:13;238:5 salicylic (1) 11:22 salmonella (4) 107:7;158:3,8,20 salts (1) 157:10 same (22) 9:23;41:2;60:22;	241:12;242:19 SB (5) 124:17;125:12; 134:8,16;161:11 SB54 (1) 176:25 scale (3) 103:8;117:2;220:13 scarcity (1) 192:3 scare (1) 166:20 scares (1) 166:18	screening (3) 137:24;178:13,14 scrutinized (2) 107:4,4 se (1) 146:18 sea (1) 128:13 seal (4) 55:14;139:4;189:8; 241:3 search (1) 109:13 season (1)
212:6;213:6;214:6; 215:3;219:3,4; 222:20;223:6;225:3; 228:21;231:15; 236:6,15,20,22; 242:11,18;243:13; 244:6,17;245:19; 249:4;250:20;254:1 rights (1) 37:24 ring (1) 208:13 Rink (1) 154:5	24:19;105:4 rotations (1) 42:6 rotatory (1) 9:3 Roughly (1) 126:18 round (11) 6:13;53:14,24; 61:11;68:2;98:10; 135:19;141:16; 183:14;195:5;229:3 Roundup (1) 57:16 routine (1)	183:13 safety (8) 13:23;54:15; 102:25;112:19; 159:19;206:21; 212:13;238:5 salicylic (1) 11:22 salmonella (4) 107:7;158:3,8,20 salts (1) 157:10 same (22) 9:23;41:2;60:22; 62:6,21;86:17;	241:12;242:19 SB (5) 124:17;125:12; 134:8,16;161:11 SB54 (1) 176:25 scale (3) 103:8;117:2;220:13 scarcity (1) 192:3 scare (1) 166:20 scares (1) 166:18 scenario (1)	screening (3) 137:24;178:13,14 scrutinized (2) 107:4,4 se (1) 146:18 sea (1) 128:13 seal (4) 55:14;139:4;189:8; 241:3 search (1) 109:13 season (1) 233:15
212:6;213:6;214:6; 215:3;219:3,4; 222:20;223:6;225:3; 228:21;231:15; 232:13;233:3;235:15; 236:6,15,20,22; 242:11,18;243:13; 244:6,17;245:19; 249:4;250:20;254:1 rights (1) 37:24 ring (1) 208:13 Rink (1)	24:19;105:4 rotations (1) 42:6 rotatory (1) 9:3 Roughly (1) 126:18 round (11) 6:13;53:14,24; 61:11;68:2;98:10; 135:19;141:16; 183:14;195:5;229:3 Roundup (1) 57:16	183:13 safety (8) 13:23;54:15; 102:25;112:19; 159:19;206:21; 212:13;238:5 salicylic (1) 11:22 salmonella (4) 107:7;158:3,8,20 salts (1) 157:10 same (22) 9:23;41:2;60:22;	241:12;242:19 SB (5) 124:17;125:12; 134:8,16;161:11 SB54 (1) 176:25 scale (3) 103:8;117:2;220:13 scarcity (1) 192:3 scare (1) 166:20 scares (1) 166:18	screening (3) 137:24;178:13,14 scrutinized (2) 107:4,4 se (1) 146:18 sea (1) 128:13 seal (4) 55:14;139:4;189:8; 241:3 search (1) 109:13 season (1)

Spring 2024 Meeting		[[April 30, 2024
Seattle (1)	86:9;197:21;252:18	227:15	94:25;109:19;162:3;	146:14
182:8	seemed (1)		166:7;249:1;252:17	significant (4)
second (13)	26:12	sequestration (1) 145:17	shared (2)	50:23;123:12;
10:21;25:8;63:21;	seems (14)	series (1)	15:16;197:25	130:20;240:14
144:15;151:15;152:4;	18:4;25:22;27:7;	42:3	sharing (3)	significantly (1)
		serious (1)	44:16;56:5;93:10	90:13
157:15;182:1;189:20;	35:17;48:12,13;	38:24		silos (1)
201:4;209:7;219:4; 234:15	148:5,9;163:6;		shattering (1) 96:11	163:15
	170:22;192:1;199:22;	seriously (4)		
secondary (2)	239:21;246:25	72:1;93:16;109:8; 125:10	shed (1) 141:18	Silva (1) 78:2
25:7;197:10	sees (1)			
seconded (2)	158:21	serve (4)	sheep (2)	similar (9)
66:15,20	select (2)	7:13;23:9;39:24;	24:25;30:19	31:15;32:3;46:24;
SECRETARY (79)	81:1;116:18	147:6	shellfish (1)	72:4;89:22;205:19;
14:24;19:3;20:2,11,	self-declare (1)	served (2)	38:22	206:17;207:7;224:4
15;21:4;28:25;31:9;	57:5	76:20;103:4	shepherding (1) 77:13	simple (3)
36:21;38:9,12;48:19;	self-declared (1)	serves (1)		151:13;201:6;
62:25;67:3,21;81:10,	57:1	39:17	shine (1)	202:12
15;86:1,5;87:1,22;	self-sufficient (1)	service (10)	83:20	simplified (1)
89:25;90:9,19;91:24;	44:6	93:9;124:25;	shipper (1)	11:10
92:8;93:1;94:16;97:8,	sell (14)	125:18;140:2,2,23;	181:23	simplify (1)
19;98:11,18,22;99:1;	51:8;121:5;123:19;	141:4,7;150:8;169:18	shoehorned (1)	11:12
100:4;141:15;146:22;	130:4,4,4;138:6;	Services (1)	133:13	simply (3)
151:8;159:4;160:16;	139:1,6;168:5,9;	103:18	shoes (1)	14:20;62:14;192:2
161:22;169:14;170:6;	169:8;173:4;179:15	serving (3)	151:5	simultaneously (1)
172:5,14;174:10;	selling (5)	49:16;199:12;	shoot (1)	238:6
177:5;179:10;180:14;	59:10;122:16;	213:22	114:4	single (10)
181:8,25;182:17,23;	168:9;173:22;182:7	session (8)	shopper (1)	21:2;86:9;133:16;
183:8;191:18;201:7,	semester (9)	13:17;35:8;52:7,11;	43:8	149:22;150:4;168:20;
12;202:2;222:24;	34:20;40:10;44:9;	66:6;73:13;245:21;	short (7)	175:24;180:5,21;
234:11;235:24;	49:22;50:10;51:3;	246:1	9:24;84:23;87:21;	192:14
236:12;237:2,20;	92:9;94:1;234:3	set (10)	100:6;124:9;173:20;	single- (1)
238:20;240:24;	semesters (1)	6:22;24:4;25:8;	245:20	243:17
242:12;243:11,13;	32:17	27:14;43:18;55:4;	shortly (1)	single-use (5)
244:12,23;245:16;	send (23)	99:7;104:12,19,20	8:4	124:23;125:12;
246:5;247:22;248:10,	45:19;69:3;81:2;	setting (7)	shoulders (1)	129:12;140:8,24
25;252:7,17;253:13	138:8,15;155:4,4,5,	58:15;78:18,24,25;	214:20	sit (4)
section (2)	24,25;164:22;195:4;	85:8,10;109:11	show (12)	38:12,21;55:3;95:7
233:8;253:1	196:3,16,17;201:3,5,	setup (1)	15:6;105:16;	site (5)
sector (2)	9;202:3;212:15;	230:13	107:14,23;117:2;	121:25;133:17;
44:4;80:5	223:22;228:13;	seven (3)	134:23;139:4;141:18;	135:15;138:19;141:4
sectors (1)	232:18	13:2;102:16;215:15	155:10;160:2;199:12;	sites (4)
54:6	sense (15)	several (16)	230:22	121:24;122:4;
sediments (2)	45:8;129:16;	21:11;47:4,19;	showed (2)	127:24;137:2
32:6;216:6	139:23;149:20;162:4;	50:24;68:9,10;79:21;	142:8;165:23	sitting (1)
seed (33)	175:4;180:23,25;	103:23;132:16;	showing (4)	179:20
57:18;63:8,9;74:12,	181:2;231:14,24,25;	133:23;137:8,20,25;	38:25;66:5;108:13;	situation (8)
15;79:16;220:10,10;	233:17;240:22;248:7	159:7;163:20;219:12	155:11	19:13;81:3;95:24;
221:4,11,16,18,19,21,	sensitive (1)	sewage (2)	shown (2)	152:21;167:11;
22,25;222:1,5,12,16;	13:10	58:10;113:12	16:9;35:12	181:21;235:20;
223:13,16,17,18,22,	sensitization (1)	sexy (1)	Shows (2)	253:10
22,25;224:5,7,8,14,	12:22	77:9	134:2;225:20	situations (1)
15,22	sensitizer (1)	SGE (1)	sickly (1)	46:16
seedling (1)	12:24	97:12	23:15	six (4)
160:6	sent (2)	SGEs (1)	side (7)	6:25;123:4;143:7;
seeds (8)	88:12;181:15	95:9 shaka (1)	114:8;165:5,6,6;	199:20
56:10;79:7,8,17,18;	sentences (1)	shake (1)	166:2;176:13;214:3	size (4)
110:24;215:9;223:9	172:2	86:11	side- (1)	138:10;220:19,22;
seeing (5)	sentiment (1)	shall (1)	50:1	222:6
58:4;75:22;102:12;	60:22	130:4 (1)	sides (1)	skin (2)
166:16,18	separate (5)	shape (1)	200:8	12:22;15:18
seeking (1)	145:24;227:8;	58:22	signal (1)	skip (1)
124:14	238:19,20;248:21	share (9)	69:2	226:8
seem (3)	sequester (1)	40:5;60:22;74:23;	signed (1)	sky (1)

- Vol. 4 April 30, 2024

Spring 2024 Meeting		
149:18	195:8;196:4,15,21;	
slam (1)	197:23;198:12,18;	s
48:1	199:6,24;200:22;	
slaughter (2)	201:4,19,22,24;202:1,	S
27:8;30:17	4;203:4;207:10;	
sliced (1)	209:18;210:2;211:24;	
88:1	213:1;214:22;216:21;	S
slide (17) 52:20;66:10;94:3;	217:2,19;218:14,21; 222:22;225:4;226:21;	~
96:8;97:3;98:20;	228:14,19;229:8;	S
107:14;132:15;	235:14;244:13;	s
133:15;136:11;	253:19,244.13,	3
138:17,18;142:8,11;	snacks (1)	s
157:15;170:17;171:7	183:13	2
slides (5)	snails (2)	s
85:19;116:6;	210:8;212:23	
131:15;132:5;146:20	sneak (2)	
slightly (3)	7:17;49:6	
13:5,7,14	sneaker (1)	S
slopey (1)	126:1	
167:13	sneakers (1)	S
slow (2)	125:25	
209:12;211:2	snowstorms (1)	
slowly (1)	34:9	
124:7	soaps (14)	S
sludge (2) 58:10;113:12	203:7,8,10,14,17, 19,20,21,24;204:2,5,	~
slugs (3)	19,20,21,24,204.2,3, 10,10,16	S
210:8;211:6;212:23	social (1)	s
small (23)	60:23	э
8:23;9:17;10:2;	societal (1)	
33:16,23;45:25;46:3;	169:6	
47:2;79:24;119:17;	society (1)	
126:18;133:11;	175.7	s
138:10;154:20,21;	socioeconomic (1)	
164:21;174:6;178:22;	70:2	S
180:2;207:5;220:19;	socks (1)	
224:13;240:2	167:13	
smaller (7)	SOE (1)	
7:4;25:3;96:12;	92:5	
138:5;144:1;154:22;	SOEs (1)	S
171:9	35:6	~
small-scale (2) 39:5;233:1	soft (1) 34:13	S
smart (2)	software (1)	s
168:22;242:16	80:1	3
smarter (1)	soil (44)	
202:13	12:9,10;105:7;	
smell (1)	110:20;111:3;120:6;	s
36:17	131:23;138:16,24;	
smelled (1)	139:12;158:17,18,19,	s
37:15	21,24;159:25;160:4,	
SMITH (76)	4;162:20;166:12;	
6:3,20;18:19;19:18;	185:3;186:16,22,24;	
51:19;52:2;64:8;66:7,	197:15;204:21;210:8;	S
19,23,25;67:2,4,6,8,	212:14;215:5,7,17,18,	
10,12,14,16,18,20,23;	21,23,24;216:14,18;	S
72:4,20;86:19;90:2;	217:12;218:5;219:21;	
91:14;99:10,20;	227:14,14,18,19	
160:17;183:17,20; 184:17;188:15;	soiled (1) 176:9	
189:11;191:17;	soils (5)	
192:12;193:9;194:20;	13:1;139:13;	
172.12,173.7,174.20,	13.1,137.13,	

145:16:218:1.9 solar (2) 191:16,16 sold (6) 117:16;121:10,11, 11;124:25;125:19 soliciting (1) 92:18 solid (1) 145:24 solidarity (1) 199:1 soluble (5) 158:5,7,21,23,25 solution (9) 40:20,21;43:22; 44:1;151:7;192:1; 220:3;239:25;242:8 solutions (2) 74:23;240:21 solve (6) 77:1;148:10;177:4; 200:19;204:13; 248:15 solved (1) 246:3 solving (2) 77:6;241:25 somebody (9) 7:24;27:16;41:22; 60:6;74:22;111:24; 163:19:187:18: 233:10 somehow (1) 180:19 someone (12) 32:24;36:3;72:15, 16;74:5;79:18;95:21; 174:4;178:18;181:15; 237:10:252:12 someplace (1) 245:15 sometime (1) 166:19 sometimes (8) 51:20;57:21;65:15; 74:1;76:7;127:8; 208:3;230:16 somewhat (2) 18:16;117:3 somewhere (6) 123:15;166:20; 167:19;200:17;208:4; 250:8 soon (2) 47:24;125:7 sorry (18) 27:17;28:15;29:16; 72:20;87:12;90:9; 101:16:108:22; 198:10,24;201:19,20; 222:10;233:10,11; 240:23;245:22;

249:13 sort (76) 15:21;16:22;17:4; 18:8,24,25;29:1,4; soy (2) 31:12,20:33:17:36:1; 41:3,14,22;48:12,23; 50:2;61:18;68:15,24, 25:69:10:70:17.17; 75:19;77:8;78:17; 81:21;82:9;86:8,23; 89:13;94:22;95:16; 96:8:100:5:101:7: 102:7;104:19,23; 107:10;108:15,24; 109:11;110:1;112:13; 114:15;115:21; 116:23;128:20,21; 141:11;142:9,10; 145:23;156:12;157:6; 159:22;173:16;176:1; 182:2;195:4;205:21; 231:4,10;232:9; 234:24;238:9,17; 240:24;241:2,12; 248:2;249:10;252:20 sorted (1) 129:21 sorting (7) 129:23,24;137:21, 22;175:14;243:1,5 sorts (4) 107:18;162:18,19; 163:23 soul (1) 104:25 Sound (4) 38:21;55:23;63:13; 234:20sounds (4) 30:2:49:4:51:21; 181:8 soup (2)124:18;244:20 source (18) 8:24;9:7;16:18; 45:3;63:12;143:12; 158:23;162:10; 165:18;166:6;168:11; 178:20;181:22; 217:11,14,17;228:1; 239:12 sources (14) 40:15;42:17;43:21; 44:21;143:9;166:24; 169:12;185:24; 187:12;208:15; 215:12;217:7;218:12; 224:11 sourcing (2) 39:4:188:11 southeast (1) 42:20southeastern (1)

- Vol. 4 April 30, 2024 Southern (1) 40:12:205:20

34:5

124:4

soybean (1) 42:20 space (9) 26:11;27:2;34:18; 41:15:97:4:125:20; 165:5,11;182:10 spaces (1) 167:14 span (1) 93:14 spark (1) 80:5 speak (7) 25:2;62:10;72:16; 97:8,12;124:7,7 speaker (2) 44:17;92:6 speakers (1) 83:10 speaking (1) 245:12 special (2) 95:8;131:5 species (5) 26:18:30:20:39:1; 44:20:101:21 specific (23) 17:25:19:15:48:11; 54:4;70:18;82:8;84:2, 20;92:18,18,22;96:8; 140:21;158:9;197:7; 214:13;220:21; 236:13,24,25;237:24; 239:17;250:2 specifically (13) 16:16;22:6;54:12; 69:16:79:15:97:12; 112:11,19;124:21; 131:22;152:14; 200:18;251:7 spelled (2) 226:11,16 spend (5) 50:10;126:19; 164:3;176:4;177:3 spent (6) 17:5;49:20;102:16; 114:21;174:13; 197:18 spill (1) 14:4spills (2) 14:3;219:23 split (3) 83:6;194:25;195:24 spoiler (1) 47:19 spoke (1)

- Vol. 4 April 30, 2024

Spring 2024 Meeting				April 30, 2024
24:20	205:24;214:8;216:24;	stated (4)	43:23;60:23;65:25;	string (1)
spore (1)	249:3;252:25	204:20;221:5,14;	66:1,1;69:5;73:7;	228:25
152:16	standard (21)	237:21	76:11;98:19;122:24;	strip (1)
spores (2)	24:14;29:8;36:24;	states (11)	135:18;136:7;138:7;	208:5
152:18;153:24	37:3;61:8;105:8,15,	27:9;51:12;53:19;	140:8;144:16,20;	strong (5)
spot (2)	22;106:1,7,7,15;	111:23;115:6;123:9;	145:20;146:9;148:5;	69:17;117:14;
34:13;98:1	107:5,6,24;109:24;	165:22;166:1;167:12;	152:2,25;153:24;	197:6;207:4;213:18
spotlight (1)	115:2;203:17;238:3;	179:3;212:21	152.2,25,155.24, 158:19;161:6,14;	strongly (4)
61:5	239:10;246:12	statewide (2)	169:15;178:23;	206:21;210:17;
spray (1)	standards (34)	103:9;168:6	180:20;181:6;182:7;	214:16;216:6
185:20	27:15;36:2;100:23,	static (10)	191:9;193:17;204:9;	struck (2)
sprayed (3)	24;102:18;105:1,7;	106:10;133:18;	212:23;238:24;241:1;	37:14;240:13
16:21;197:13;	106:5;109:23;110:18;	137:2,3;171:11,12;	253:12	struggle (1)
209:15	111:9,22,23;112:10,	172:2;232:11;233:14,	stock (3)	102:6
spraying (1)	13,18,19;118:12;	14	27:10;221:16,19	struggled (1)
208:8	124:22;125:21;	stating (2)	stole (2)	76:18
spread (3)	159:18;198:5,8,10,16;	190:19;214:18	72:18;123:22	studies (10)
44:24;210:8;211:3	200:3;203:18;219:13,	statistic (1)	stone (2)	9:19;12:22;13:21;
spreading (1)	16;235:17,18,25;	191:11	63:23;64:3	16:9;35:12;148:21;
26:25	246:14;247:7	stature (1)	stood (1)	152:23;153:8;160:2;
spreadsheet (1)	staple (1)	101:20	74:11	203:23
82:23	249:7	status (2)	stop (3)	study (7)
spring (5)	Starbucks (4)	97:17;167:25	146:8;184:6;248:17	28:9;121:16;
10:6;34:11;35:19;	122:8,13,14;127:3	statute (1)	store (3)	127:24;128:2;145:6;
51:3;81:19	starch (1)	176:25	43:9;60:4;151:5	146:2;152:5
sprinkler (1)	126:21	stay (5)	stores (2)	studying (1)
186:8	start (25)	41:20,20;100:12;	122:17;136:19	23:5
sprinklers (1)	6:23;7:20,21;66:15;	111:15;254:1	storytelling (2)	stuff (33)
186:7	74:16;99:25;103:22;	steam (1)	41:2,6	72:8;81:2;105:4;
spurs (1)	105:13,17;130:14;	190:21	straight (3)	127:3;128:1,19,21;
141:23	142:2;147:2;152:24;	stencil (1)	51:11;136:16;	129:4;135:20;136:14;
square (2)	179:4,6;184:8,18;	120:18	208:12	138:1,1,6,9;144:7,16,
189:17,19	198:7;201:7,8;202:6;	step (10)	straightforward (3)	18;162:6;166:22;
squarely (1)	225:11;243:9;247:15;	36:17;41:22;91:20;	18:4,8;202:15	175:2;176:5;177:1;
191:19	250:16	121:18;182:1,1;	strains (2)	180:10;181:16;182:1;
stabilize (2)	started (11)	239:2,3;244:5,6	113:7;152:11	200:1;208:9;209:13;
7:7;171:14	32:17;52:3;65:25;	steps (8)	strategy (2)	241:13,18,20;243:3;
stabilized (5)	89:2;99:21;122:16;	84:15,19,22;112:3,	48:15;61:17	252:23
44:3;110:17,21;	125:15;131:2;145:3;	4;132:17;148:14;	straw (1)	stunk (1)
112:7;166:6	225:21;230:7	237:10	86:8	37:17
stabilizers (1)	started- (1)	Steve (1)	straws (1)	stupid (1)
31:22	79:18	71:3	127:4	76:22
stabilizing (1)	starting (10)	stick (5)	stream (14)	sub (1)
110:11	71:11;72:5;98:1;	116:14,20;176:7;	133:16;137:17;	94:18
stable (7)	120:3;154:11,16,24;	189:5;243:24	143:22;144:1;146:3;	Subcommittee (72)
13:3;44:1,2,3,10;	155:16;157:12;	sticker (6)	148:16;175:15;	6:10,11,14,17,24;
171:15;187:5	251:14	116:14;180:16,24;	176:19;239:19;	7:10,15;16:15;17:3;
staff (4)	starts (3)	181:20;182:9,11	241:14,14,15;248:21;	19:19,25;21:2;32:16;
85:3;92:16;254:3,3	108:14,14;179:8	stickers (18)	249:11	40:3,7,10;41:17;
stage (6)	stat (1)	117:11,12,14,15,17,	streaming (1)	49:23;51:16;52:4,5,7,
86:23;104:19,20;	138:2	20;118:2,13,17;	243:10	16,24;53:4,19;62:3,
109:11;112:6;251:10	State (32)	140:22;150:7;180:20;	streams (1)	18;63:2;64:24;66:12;
stages (2)	7:4;61:3;91:19;	181:14;244:18;	134:16	68:15;82:6;83:11;
111:19;116:13	117:9;122:10;124:16,	246:11;247:15,16;	strengthen (1)	84:17,22,22;85:8,9,
staging (1)	25;125:19;126:5;	253:11	46:2	15;88:2,3;90:25;91:9,
19:2	129:14,17;130:5;	sticking (1)	Strengthening (1)	15,22;92:1,10,13;
stake (1)	132:24;134:5;136:21;	253:22	7:6	94:1,14;95:13;99:17;
199:20	137:8;142:16,18;	sticks (1)	stresses (1)	100:2;183:22,24;
stakeholder (3)	143:18;144:9;145:10;	218:6	7:1	185:12;187:17;
54:6,18;87:19		(1) (1)	$a4m^2 dam4(1)$	100.11 16.101.00.
	146:2;147:18;150:1;	sticky (1)	strident (1)	190:11,16;191:22;
stakeholders (11)	162:17,18;163:6,22;	114:14	241:22	193:24,25;196:10,17,
53:10,16;83:22;	162:17,18;163:6,22; 178:25;187:2;216:4;	114:14 still (40)	241:22 strikes (2)	193:24,25;196:10,17, 17;200:25;201:3,5;
	162:17,18;163:6,22;	114:14	241:22	193:24,25;196:10,17,

tale (1)

235:20

talent (1)

-F8	
subcommittees (7)	S
29:23;54:25;61:17;	
69:1,10,12,13 Subcommittee's (1)	S
54:23	
subject (3)	
108:19;193:7;230:6	S
submit (1) 250:11	
submitted (3)	S
10:6;50:21;57:2	2
submitting (1)	S
185:17 subsidiary (1)	
180:4	S
substance (29)	2
16:24;18:13,16;	S
21:23;22:10;28:23;	
31:13;35:19;105:11; 185:22:186:5:191:19:	S
185:22;186:5;191:19; 192:10;197:1,21;	5
204:12,23;213:9;	
217:22;219:6,14,15,	S
20;221:9;222:21; 223:1,14;225:22;	S
229:2	D
substances (28)	S
11:21;12:15;15:13;	
16:2,11;20:12,13,14, 16,17;31:17,18,21;	S
37:2,24;63:4;83:19;	2
84:2,7;203:10;204:7;	S
207:16,17;215:4;	
219:12;221:15,17; 246:23	S
substantiate (1)	2
64:5	S
substantive (5) 94:5,11,17,20;	S
98:24	3
substitute (1)	
216:13	
succeed (2) 93:9;95:2	S
success (1)	3
237:21	
successful (4)	S
101:25;168:19,20, 24	S
successfully (1)	5
220:13	
sucrose (2)	
35:6,13 sudden (1)	S
73:18	5
suffering (1)	
27:7 sufficient (1)	S
185:8	
sugar (1)	
211:5	
suggest (2) 180:11;234:4	
100.11,207.7	

suggested (2) 69:19;232:3 suggestion (8) 73:11:74:2:89:11: 98:23;234:19,23; 235:1,9 suggestions (5) 53:9:54:4:83:12; 98:15;232:1 uggests (1) 12:23 uitable (3) 101:25:123:17; 216:13 suite (3) 14:19;31:24;32:12 ulfate (10) 21:9,24,25;215:2,3; 216:1,15,18;217:4,9 ulfur (3) 216:15;218:24; 223:18 ulfuric (3) 221:11;224:3,21 Sullivan (1) 72:7 summarize (4) 190:3;206:15; 209:20;240:24 summary (2) 82:4:230:18 summer (4) 51:4:81:19:191:13; 205:8 sunflower (1) 40:17 unlight (1) 114:9 unset (14) 6:25:20:22:25:8; 28:20;34:25;35:7; 36:25:61:12:63:1.6. 14;90:20;92:21;223:2 unsets (7) 7:17,20;25:6;28:14; 184:12;202:6;229:12 sunshine (1) 99:22 uper (9) 44:7;46:20;119:7; 124:15;126:20;127:2; 133:10:147:21: 196:14 upply (4) 7:7;144:23;147:20; 227:25 upport (39) 10:9;14:13;15:5; 17:1,4;24:14,22; 25:11;29:3;40:23; 53:25;54:6;69:17; 83:4;84:6,11;85:13;

92:15;95:23;96:13;

102:17,20;104:11,15; 111:3:113:10:187:24: 188:3;190:11;195:7; 196:1;202:17,21; 207:4;209:6;213:18; 216:9,19;230:7 supported (3) 92:20;220:25;229:3 Supporters (1) 84:7 supporting (1) 87:3 supportive (4) 35:19;84:4;92:18; 220:1 supports (2) 10:8;205:16 suppose (1) 48:23 supposed (2) 75:6:204:21 sure (45) 16:25;20:11,21; 21:21;23:19;24:4,13; 31:1;37:25;38:6; 46:19;48:15;63:8,10; 65:13,16;66:3;70:18; 77:4;84:16;86:21; 95:1;98:19;105:17; 106:18;115:4;116:19; 118:9:126:16:143:19: 153:19:155:3:156:25: 165:12,12;169:24; 173:2;180:13;190:6; 196:8;203:8;225:13; 241:11;246:14; 253:11 surface (2) 112:17;210:8 surfaces (1) 10:20 surgeries (2) 15:3,4 surgical (2) 33:2,5 surprised (1) 206:24 surprises (1) 251:11 surprising (1) 96:11 surrogate (2) 122:1,13 survey (1) 76:25 surveyed (4) 121:4,9;129:17,19 survive (2) 152:16,18 susceptible (1) 26:21 sustainable (1) 103:1

switch (4) 32:16:114:11: 119:19:122:22 symptoms (2) 39:13:215:17 synthesized (2) 9:5;208:11 synthetic (22) 21:15,21;36:19; 47:1;105:11:120:15; 185:5,18;187:3; 203:10;205:10,22; 207:16,17;215:4,8; 227:8;236:9,25; 237:4;240:1;246:23 synthetics (7) 8:1;10:15;43:23; 45:25;235:6;236:4; 246:10 system (43) 25:6;43:4;54:14,24; 55:7,10;56:9,22,23; 57:6;60:12;63:19; 70:20;75:7;76:16; 80:24;82:16;107:9; 108:24;110:17;116:9; 128:7;129:7;133:18; 137:2;143:25;145:24; 158:16;159:24;160:7, 8,10;165:10;174:19; 175:1;181:19,22; 182:13:183:1:192:10. 19:193:2:243:18 systems (21) 18:1;56:17;64:2; 103:1;113:9;137:7; 146:7;149:11:170:18; 175:18;182:7;192:24; 193:6;202:10,11; 213:7;216:1;228:12; 232:25;242:22; 243:10 Т table (2) 89:13;243:19 tablet (2) 63:23;64:4 tabletop (1) 223:5 tack (1) 165:1 tackle (3) 54:23;240:8;244:21 tackled (1) 93:25 takeaway (1) 87:2 takeaways (1) 244:14 takeout (1) 135:8

119:15 talented (1) 119:7 talk (59) 8:4,12;9:13;11:20; 12:1;13:1;21:9;30:4; 34:21,22;37:6;49:7; 60:10;61:13;70:8; 73:13:80:9:82:4; 100:8;101:18;104:13, 21;105:6;107:6; 108:17;111:21; 114:12;119:2;121:21; 130:16;131:22;132:6; 134:8,22;140:22,23; 141:12,13;142:11; 145:13;157:5,5; 164:13;170:13;178:5; 179:17;183:10; 184:11;188:21; 202:23;213:6;218:18; 229:9,16;234:11; 237:10;238:13;242:3; 248:2 talked (12) 8:18;12:11,25; 77:22;133:4;135:12; 145:14:169:17; 187:18:200:4:204:4: 244:22 talking (45) 6:15;11:19;17:5; 26:18;36:18;43:5; 46:3,10;48:7;59:24; 73:7;79:7,15,17;81:5; 100:7;105:14,17,23; 106:3,24;126:15; 130:23,25;132:1; 139:18:146:1:162:6; 181:2;182:18;184:13; 189:13,15;191:21; 206:17;225:21; 229:20,20;230:15; 232:10;233:4,5; 244:8;250:2,2 talks (4) 101:15;106:6; 141:13:171:12 tandem (1) 204:12 **TAP (6)** 65:15;66:1;141:21; 213:10,21,23 target (2) 134:5;153:20 targeted (1)

159:9

targets (1)

task (3)

178:22

19:23:54:16:76:25 tasked (1) 43:8 taught (1) 154:5 tea (1) 108:1 teach (6) 143:14;154:7,7; 157:3,14:170:25 teaching (2) 65:25:157:3 team (6) 45:17;94:22,23; 95:3;198:25;250:2 teas (1) 6:6 tease (1) 240:18 teat (9) 15:1,5,25;16:2,16, 17;17:7;19:4,9 tech (1) 74:16 technical (21) 28:1;52:10,18;53:5, 7,17;54:7,11;55:18, 20;57:12;61:10,17; 84:1;94:6;102:21; 104:18;131:25;181:6; 213:16:247:18 technically (1) 120:15 techniques (4) 28:14;57:19,24; 78:1 technological (1) 54:24 technologies (4) 54:14:56:6,18; 220:22 technologists (3) 82:23;92:23;231:3 technologists' (2) 92:14,16 technology (1) 114:4 techs (1) 73:7 tee (2) 93:17:100:5 telling (5) 42:22;180:15; 196:18;199:14;237:9 tells (1) 14:8 temp (1) 171:22 temperature (11) 106:11,14:113:18, 20;151:19,25;153:10, 25;156:21,22;192:5 temperature- (1)

224:2 114:2 temperatures (6) textiles (2) 225:9.10 102:2;110:13; 113:5:114:6:151:24: texture (1) 229:21 128:24 template (9) thankful (1) 52:10:53:5.9.12: 7:9 54:3,7:55:22;63:23; Thanks (63) 66:13 templates (2) 18:21:19:18:20:1; 64:4,15 28:19;29:15,18; tend (5) 121:25;123:5,6; 148:22:163:15 tendency (1) 68:1;69:13;71:1; 195:4 tens (1) 88:8;89:6;91:24; 175:8 Teplitski (3) 117:8,13;118:1 term (13) 17:18:30:6:36:11: 84:23;106:19;108:18; 131:17,19,22,25; 173:20;192:20,21 244:23,24;245:16; terminologies (1) 109:21 254:4 that'll (1) terminology (2) 106:17,18 191:11 terms (17) theme (2) 18:5;41:14;46:12; 72:4:106:11 56:4:62:15:68:10: themes (1) 75:8:96:16:103:15; 82:25 115:3:118:21:131:24: theoretically (1) 174:19 152:15;153:3;182:12; 211:21;249:25 theory (1) terrestrial (1) 80:9 205:10 there'd (1) terribly (3) 161:4 thermally (1) 120:8;155:19; 157:17 227:15 test (13) thermocouples (1) 124:19;155:20,21, 114:1 25,25;156:5,13,17,18; thermoduric (1) 157:8,8,11;172:22 152:18 thermophilic (3) tested (1) 110:10,13;112:6 116:23 testifying (1) thicker (1) 119:10 189:21 testimonial (1) thinking (29) 195:13 14:16:20:5:23:18; testimony (1) 188:7 testing (16) 25:15,18;54:15; 57:17;109:25;116:17; 155:7,7;159:10; 202:24;234:22,25; 215:18;233:24;234:5, 6,13,14,15 243:4;246:7,7 tests (2) third (3) 25:20;156:17 10:1;36:9;239:12 Texas (4) Thistle (1) 220:12;223:12,12; 77:7

thornier (1) 141:19 thorough (3) 14:16:94:12:250:25 thoroughness (1) 212:2 though (11) 32:21:34:4:77:5: 6:18;7:21,24;14:15; 136:13;157:23; 180:20;184:21; 191:23;204:2;214:19; 32:12;37:4,7;40:25; 252:18 44:13;45:11;48:4,17; thought (12) 51:13;57:14;65:6,8; 15:15,21;51:9; 69:18;79:4;102:10; 72:24;73:2;75:2;87:8; 156:12;198:13;210:1; 242:16;245:1;253:4 97:11;98:16;100:4; thoughtful (2) 119:4;130:15;141:14; 58:15;84:7 159:7;170:6,6;174:4; thoughts (3) 192:13:194:21,21,22; 69:24;172:25; 247:23 205:4:210:6:214:24: 217:1,3,20;222:22; thousand (1) 225:1;226:18;242:12; 166:23 three (21) 247:22;252:7;253:21; 7:3;47:21;58:10; 63:22;78:25;95:8; 103:15:124:8,10; 132:13;135:1;171:6, 20,21;172:2,7,8; 220:25;232:10; 237:10:251:6 three-dimensional (1) 251:17 three-eighths (1) 138:4 threshold (1) 178:3 threw (1) 144:4 thrill (1) 119:6 thrive (2) 24:8;77:3 thriving (1) 168:19 throughout (1) 163:6 throw (4) 51:6;75:25;77:10; 160:4 24:12;39:16;42:11; throwing (1) 49:21,23;50:11;88:7; 79:13 90:19;97:3;101:11; thunder (1) 106:18;130:25;145:3; 72:18 165:14;176:8;193:24; ties (1) 158:15 235:16,20;238:5,18; tight (2) 189:7;218:5 tighter (1) 159:15 tillage (1) 105:4

- Vol. 4 April 30, 2024

Tim (18) 102:14:103:16.22: 129:5;130:13;131:13; 145:13:147:23: 155:15;160:20; 163:14,16;167:23; 168:13;169:15;170:6; 174:12:177:11 timeline (4) 88:6:180:23:181:3, 5 timeline's (1) 87:14 timely (4) 65:10,13,17;100:22 times (12) 6:6;50:24;51:7; 68:10;81:9;135:12; 144:12;163:20; 171:22;172:9;194:11; 230:16 timing (2) 49:22;122:2 Tim's (2) 127:24;162:22 tiny (1) 33:13 tips (2) 16:17;17:7 tireless (1) 60:18 tissue (1) 215:18 today (19) 6:7,9,15;29:25; 79:5;82:4,5;99:22; 102:10;104:3;119:17; 141:18:162:24: 183:15;200:4;203:13; 238:23:240:13,25 today's (1) 52:7 together (10) 33:14;88:1;90:15; 113:1;128:7;134:19; 144:5;146:24;209:12; 228:25 tolazoline (2) 32:14;33:9 told (6) 26:7;78:20;105:16; 118:1;168:23;233:15 tolerance (1) 205:15 tomato (1) 112:20 tomorrow (10) 48:7;62:6;63:2; 119:2;218:17,19; 234:10;253:20,23,24 ton (4) 104:12;161:25,25; 168:5

Spring 2024 Meeting				April 30, 2024
tons (19)	205.10 16.200.10.	209.16 10	138:1,13;139:13;	96.16.97.4 17 19.
	205:10,16;209:10;	208:16,19		86:16;87:4,17,18;
113:25;121:13;	210:10,25	trash (2)	149:7;151:1;176:14;	93:14;95:4;103:13;
122:25,25;123:4,12;	toxicological (2)	108:6;242:8	206:7;226:17	111:10;121:21;133:6,
126:19;133:25;134:1;	83:13;85:1	travel (2)	trying (56)	19;137:2;147:3;
136:3;142:15;143:3,	TR (29)	96:2;181:18	13:12;28:12;39:3;	148:24;149:1;172:3;
5,6,7;153:10,10;	8:12;16:16,17;	treat (5)	43:12;51:11;59:2;	188:2;199:4;205:5;
155:18;169:9	20:22;47:14,17,24;	14:5;22:25;24:18;	68:10,17,23;69:11,23;	213:14,15;223:2;
took (5)	53:12;62:11,17;	37:23;143:16	76:25;87:12,20;91:3;	225:1;232:9,10;
30:25;33:14;91:16;	63:23;64:4,15;65:14,	treated (1)	96:22;120:6;124:19,	244:21;253:19
145:9;184:23	16,17;66:13;185:11;	221:22	23;125:13;126:11;	two-and-a-half (1)
tool (15)	186:23;211:7,15;	treatment (8)	127:15;129:8;132:20,	73:19
14:19;17:2;25:19;	213:17,23,23,25;	8:18;10:23;15:1;	23;134:20;137:19;	two-step (1)
27:8;32:11;33:6;	214:1;219:5;220:6;	23:14;30:19,21;	139:12,18,22,24;	11:3
53:12;54:8;76:1;	228:16	31:11;33:8	140:1,7;141:5,19;	type (15)
173:13,19;236:18,19;	trace (7)	treatments (2)	143:21;144:12,16;	77:22;112:2;115:3;
250:20;252:5	45:24,24;46:22,24;	8:17;21:11	153:7;156:3;162:4;	131:9;137:9;139:10;
toolbox (5)	48:9;115:20;117:24	tree (2)	172:18;173:4;179:24;	149:22;158:7;160:2,
23:20,21;50:8;	traceability (1)	138:20;216:11	186:17;193:20;	3;167:15;169:22;
195:21;217:23	117:24	trellis (1)	197:19;225:7,7;	170:1;209:12;241:5
toolkit (1)	tracing (1)	144:19	234:18;240:17;	types (13)
202:24	115:20	tremendous (1)	241:22,23;246:8;	96:5;110:4,7;113:2;
tools (5)	track (11)	144:21	249:10;250:1	114:2;117:19;139:7,
24:10;29:10;50:7;	51:24;73:22,22;	trend (1)	TUCKER (7)	8,17;140:23;149:1;
95:1;204:13	74:1;102:3;143:12;	44:16	79:15,20;88:9;	152:12;159:23
top (5)	180:3,8,10;181:4;	trial (2)	89:10;249:24;251:25;	typical (3)
19:7;35:17;100:20;	232:13	63:15;75:20	252:3	12:6;117:20;135:14
124:17;158:2	tracking (2)	trials (1)	Tuesday's (1)	typically (4)
topic (13)	115:22;180:10	206:6	119:12	15:1,6,18;18:5
36:14;53:5;82:11;	traction (1)	tricky (3)	tunnels (1)	typos (1)
88:9;99:25;118:5,6;	190:18	20:24;58:5;150:18	216:10	52:23
151:11;184:14;	trade (2)	tried (3)	turkey (2)	52.25
	16.1.221.0	69.21.125.12.	101.10.102.0	T
220:14;229:19;	16:1;221:8	68:21;135:13; 240:10	101:19;102:9	U
250:11;251:9	trade-off (1)	240:10	turn (15)	
250:11;251:9 topical (1)	trade-off (1) 45:8	240:10 tries (1)	turn (15) 51:18;52:4;91:21;	ubiquitous (3)
250:11;251:9 topical (1) 15:1	trade-off (1) 45:8 trade-offs (5)	240:10 tries (1) 211:7	turn (15) 51:18;52:4;91:21; 93:17;99:8;104:7;	ubiquitous (3) 21:25;210:11,12
250:11;251:9 topical (1) 15:1 topics (3)	trade-off (1) 45:8 trade-offs (5) 44:15;80:9,11;	240:10 tries (1) 211:7 trimmings (11)	turn (15) 51:18;52:4;91:21; 93:17;99:8;104:7; 137:4;141:20;183:16,	ubiquitous (3) 21:25;210:11,12 UC (4)
250:11;251:9 topical (1) 15:1 topics (3) 92:9,10;180:15	trade-off (1) 45:8 trade-offs (5) 44:15;80:9,11; 88:22,23	240:10 tries (1) 211:7 trimmings (11) 121:22;131:23;	turn (15) 51:18;52:4;91:21; 93:17;99:8;104:7; 137:4;141:20;183:16, 23;191:12,13;192:17;	ubiquitous (3) 21:25;210:11,12 UC (4) 144:25;145:5;
250:11;251:9 topical (1) 15:1 topics (3) 92:9,10;180:15 total (3)	trade-off (1) 45:8 trade-offs (5) 44:15;80:9,11; 88:22,23 trading (1)	240:10 tries (1) 211:7 trimmings (11) 121:22;131:23; 134:3;135:2,18,19,23;	turn (15) 51:18;52:4;91:21; 93:17;99:8;104:7; 137:4;141:20;183:16, 23;191:12,13;192:17; 244:13;253:15	ubiquitous (3) 21:25;210:11,12 UC (4) 144:25;145:5; 164:16;166:13
250:11;251:9 topical (1) 15:1 topics (3) 92:9,10;180:15 total (3) 136:3;169:10;	trade-off (1) 45:8 trade-offs (5) 44:15;80:9,11; 88:22,23 trading (1) 224:10	240:10 tries (1) 211:7 trimmings (11) 121:22;131:23; 134:3;135:2,18,19,23; 136:1,4,8;145:25	turn (15) 51:18;52:4;91:21; 93:17;99:8;104:7; 137:4;141:20;183:16, 23;191:12,13;192:17; 244:13;253:15 TURNER (21)	ubiquitous (3) 21:25;210:11,12 UC (4) 144:25;145:5; 164:16;166:13 udder (1)
250:11;251:9 topical (1) 15:1 topics (3) 92:9,10;180:15 total (3) 136:3;169:10; 179:23	trade-off (1) 45:8 trade-offs (5) 44:15;80:9,11; 88:22,23 trading (1) 224:10 traditional (2)	240:10 tries (1) 211:7 trimmings (11) 121:22;131:23; 134:3;135:2,18,19,23; 136:1,4,8;145:25 trip (1)	turn (15) 51:18;52:4;91:21; 93:17;99:8;104:7; 137:4;141:20;183:16, 23;191:12,13;192:17; 244:13;253:15 TURNER (21) 35:24;40:25;67:13;	ubiquitous (3) 21:25;210:11,12 UC (4) 144:25;145:5; 164:16;166:13 udder (1) 15:5
250:11;251:9 topical (1) 15:1 topics (3) 92:9,10;180:15 total (3) 136:3;169:10; 179:23 Totally (4)	trade-off (1) 45:8 trade-offs (5) 44:15;80:9,11; 88:22,23 trading (1) 224:10 traditional (2) 223:20;224:9	240:10 tries (1) 211:7 trimmings (11) 121:22;131:23; 134:3;135:2,18,19,23; 136:1,4,8;145:25 trip (1) 86:25	turn (15) 51:18;52:4;91:21; 93:17;99:8;104:7; 137:4;141:20;183:16, 23;191:12,13;192:17; 244:13;253:15 TURNER (21) 35:24;40:25;67:13; 68:1;72:18,21;73:11;	ubiquitous (3) 21:25;210:11,12 UC (4) 144:25;145:5; 164:16;166:13 udder (1) 15:5 ultimately (3)
250:11;251:9 topical (1) 15:1 topics (3) 92:9,10;180:15 total (3) 136:3;169:10; 179:23 Totally (4) 62:23;127:1;	trade-off (1) 45:8 trade-offs (5) 44:15;80:9,11; 88:22,23 trading (1) 224:10 traditional (2) 223:20;224:9 tragic (1)	240:10 tries (1) 211:7 trimmings (11) 121:22;131:23; 134:3;135:2,18,19,23; 136:1,4,8;145:25 trip (1) 86:25 tropic (2)	turn (15) 51:18;52:4;91:21; 93:17;99:8;104:7; 137:4;141:20;183:16, 23;191:12,13;192:17; 244:13;253:15 TURNER (21) 35:24;40:25;67:13; 68:1;72:18,21;73:11; 78:11;90:24;174:11;	ubiquitous (3) 21:25;210:11,12 UC (4) 144:25;145:5; 164:16;166:13 udder (1) 15:5 ultimately (3) 89:17;117:23;
250:11;251:9 topical (1) 15:1 topics (3) 92:9,10;180:15 total (3) 136:3;169:10; 179:23 Totally (4) 62:23;127:1; 225:19;238:19	trade-off (1) 45:8 trade-offs (5) 44:15;80:9,11; 88:22,23 trading (1) 224:10 traditional (2) 223:20;224:9 tragic (1) 52:23	240:10 tries (1) 211:7 trimmings (11) 121:22;131:23; 134:3;135:2,18,19,23; 136:1,4,8;145:25 trip (1) 86:25 tropic (2) 9:6,21	turn (15) 51:18;52:4;91:21; 93:17;99:8;104:7; 137:4;141:20;183:16, 23;191:12,13;192:17; 244:13;253:15 TURNER (21) 35:24;40:25;67:13; 68:1;72:18,21;73:11; 78:11;90:24;174:11; 201:15;202:8;209:19,	ubiquitous (3) 21:25;210:11,12 UC (4) 144:25;145:5; 164:16;166:13 udder (1) 15:5 ultimately (3) 89:17;117:23; 118:10
250:11;251:9 topical (1) 15:1 topics (3) 92:9,10;180:15 total (3) 136:3;169:10; 179:23 Totally (4) 62:23;127:1; 225:19;238:19 touch (2)	trade-off (1) 45:8 trade-offs (5) 44:15;80:9,11; 88:22,23 trading (1) 224:10 traditional (2) 223:20;224:9 tragic (1) 52:23 trailing (1)	240:10 tries (1) 211:7 trimmings (11) 121:22;131:23; 134:3;135:2,18,19,23; 136:1,4,8;145:25 trip (1) 86:25 tropic (2) 9:6,21 tropine (2)	turn (15) 51:18;52:4;91:21; 93:17;99:8;104:7; 137:4;141:20;183:16, 23;191:12,13;192:17; 244:13;253:15 TURNER (21) 35:24;40:25;67:13; 68:1;72:18,21;73:11; 78:11;90:24;174:11; 201:15;202:8;209:19, 22;210:1;228:15;	ubiquitous (3) 21:25;210:11,12 UC (4) 144:25;145:5; 164:16;166:13 udder (1) 15:5 ultimately (3) 89:17;117:23; 118:10 umbrella (1)
250:11;251:9 topical (1) 15:1 topics (3) 92:9,10;180:15 total (3) 136:3;169:10; 179:23 Totally (4) 62:23;127:1; 225:19;238:19 touch (2) 94:12;174:1	trade-off (1) 45:8 trade-offs (5) 44:15;80:9,11; 88:22,23 trading (1) 224:10 traditional (2) 223:20;224:9 tragic (1) 52:23 trailing (1) 245:1	240:10 tries (1) 211:7 trimmings (11) 121:22;131:23; 134:3;135:2,18,19,23; 136:1,4,8;145:25 trip (1) 86:25 tropic (2) 9:6,21 tropine (2) 9:6,21	turn (15) 51:18;52:4;91:21; 93:17;99:8;104:7; 137:4;141:20;183:16, 23;191:12,13;192:17; 244:13;253:15 TURNER (21) 35:24;40:25;67:13; 68:1;72:18,21;73:11; 78:11;90:24;174:11; 201:15;202:8;209:19, 22;210:1;228:15; 241:10;249:13;	ubiquitous (3) 21:25;210:11,12 UC (4) 144:25;145:5; 164:16;166:13 udder (1) 15:5 ultimately (3) 89:17;117:23; 118:10 umbrella (1) 17:17
250:11;251:9 topical (1) 15:1 topics (3) 92:9,10;180:15 total (3) 136:3;169:10; 179:23 Totally (4) 62:23;127:1; 225:19;238:19 touch (2) 94:12;174:1 touching (1)	trade-off (1) 45:8 trade-offs (5) 44:15;80:9,11; 88:22,23 trading (1) 224:10 traditional (2) 223:20;224:9 tragic (1) 52:23 trailing (1) 245:1 train (1)	240:10 tries (1) 211:7 trimmings (11) 121:22;131:23; 134:3;135:2,18,19,23; 136:1,4,8;145:25 trip (1) 86:25 tropic (2) 9:6,21 tropine (2) 9:6,21 TRs (6)	turn (15) 51:18;52:4;91:21; 93:17;99:8;104:7; 137:4;141:20;183:16, 23;191:12,13;192:17; 244:13;253:15 TURNER (21) 35:24;40:25;67:13; 68:1;72:18,21;73:11; 78:11;90:24;174:11; 201:15;202:8;209:19, 22;210:1;228:15; 241:10;249:13; 251:19;252:1,6	ubiquitous (3) 21:25;210:11,12 UC (4) 144:25;145:5; 164:16;166:13 udder (1) 15:5 ultimately (3) 89:17;117:23; 118:10 umbrella (1) 17:17 unanimous (1)
250:11;251:9 topical (1) 15:1 topics (3) 92:9,10;180:15 total (3) 136:3;169:10; 179:23 Totally (4) 62:23;127:1; 225:19;238:19 touch (2) 94:12;174:1 touching (1) 140:14	trade-off (1) 45:8 trade-offs (5) 44:15;80:9,11; 88:22,23 trading (1) 224:10 traditional (2) 223:20;224:9 tragic (1) 52:23 trailing (1) 245:1 train (1) 164:4	240:10 tries (1) 211:7 trimmings (11) 121:22;131:23; 134:3;135:2,18,19,23; 136:1,4,8;145:25 trip (1) 86:25 tropic (2) 9:6,21 tropine (2) 9:6,21 TRs (6) 62:3;63:4,6;64:11;	turn (15) 51:18;52:4;91:21; 93:17;99:8;104:7; 137:4;141:20;183:16, 23;191:12,13;192:17; 244:13;253:15 TURNER (21) 35:24;40:25;67:13; 68:1;72:18,21;73:11; 78:11;90:24;174:11; 201:15;202:8;209:19, 22;210:1;228:15; 241:10;249:13; 251:19;252:1,6 turning (5)	ubiquitous (3) 21:25;210:11,12 UC (4) 144:25;145:5; 164:16;166:13 udder (1) 15:5 ultimately (3) 89:17;117:23; 118:10 umbrella (1) 17:17 unanimous (1) 227:9
250:11;251:9 topical (1) 15:1 topics (3) 92:9,10;180:15 total (3) 136:3;169:10; 179:23 Totally (4) 62:23;127:1; 225:19;238:19 touch (2) 94:12;174:1 touching (1) 140:14 tough (1)	trade-off (1) 45:8 trade-offs (5) 44:15;80:9,11; 88:22,23 trading (1) 224:10 traditional (2) 223:20;224:9 tragic (1) 52:23 trailing (1) 245:1 train (1) 164:4 Training (3)	240:10 tries (1) 211:7 trimmings (11) 121:22;131:23; 134:3;135:2,18,19,23; 136:1,4,8;145:25 trip (1) 86:25 tropic (2) 9:6,21 tropine (2) 9:6,21 TRs (6) 62:3;63:4,6;64:11; 65:23;73:25	turn (15) 51:18;52:4;91:21; 93:17;99:8;104:7; 137:4;141:20;183:16, 23;191:12,13;192:17; 244:13;253:15 TURNER (21) 35:24;40:25;67:13; 68:1;72:18,21;73:11; 78:11;90:24;174:11; 201:15;202:8;209:19, 22;210:1;228:15; 241:10;249:13; 251:19;252:1,6 turning (5) 106:13;170:17;	ubiquitous (3) 21:25;210:11,12 UC (4) 144:25;145:5; 164:16;166:13 udder (1) 15:5 ultimately (3) 89:17;117:23; 118:10 umbrella (1) 17:17 unanimous (1) 227:9 unanimously (1)
250:11;251:9 topical (1) 15:1 topics (3) 92:9,10;180:15 total (3) 136:3;169:10; 179:23 Totally (4) 62:23;127:1; 225:19;238:19 touch (2) 94:12;174:1 touching (1) 140:14 tough (1) 75:18	trade-off (1) 45:8 trade-offs (5) 44:15;80:9,11; 88:22,23 trading (1) 224:10 traditional (2) 223:20;224:9 tragic (1) 52:23 trailing (1) 245:1 train (1) 164:4 Training (3) 103:12;154:6;157:4	240:10 tries (1) 211:7 trimmings (11) 121:22;131:23; 134:3;135:2,18,19,23; 136:1,4,8;145:25 trip (1) 86:25 tropic (2) 9:6,21 tropine (2) 9:6,21 TRs (6) 62:3;63:4,6;64:11; 65:23;73:25 trucks (1)	turn (15) 51:18;52:4;91:21; 93:17;99:8;104:7; 137:4;141:20;183:16, 23;191:12,13;192:17; 244:13;253:15 TURNER (21) 35:24;40:25;67:13; 68:1;72:18,21;73:11; 78:11;90:24;174:11; 201:15;202:8;209:19, 22;210:1;228:15; 241:10;249:13; 251:19;252:1,6 turning (5) 106:13;170:17; 171:5;172:11;253:14	ubiquitous (3) 21:25;210:11,12 UC (4) 144:25;145:5; 164:16;166:13 udder (1) 15:5 ultimately (3) 89:17;117:23; 118:10 umbrella (1) 17:17 unanimous (1) 227:9 unanimously (1) 54:17
250:11;251:9 topical (1) 15:1 topics (3) 92:9,10;180:15 total (3) 136:3;169:10; 179:23 Totally (4) 62:23;127:1; 225:19;238:19 touch (2) 94:12;174:1 touching (1) 140:14 tough (1) 75:18 tourist (1)	trade-off (1) 45:8 trade-offs (5) 44:15;80:9,11; 88:22,23 trading (1) 224:10 traditional (2) 223:20;224:9 tragic (1) 52:23 trailing (1) 245:1 train (1) 164:4 Training (3) 103:12;154:6;157:4 traits (1)	240:10 tries (1) 211:7 trimmings (11) 121:22;131:23; 134:3;135:2,18,19,23; 136:1,4,8;145:25 trip (1) 86:25 tropic (2) 9:6,21 tropine (2) 9:6,21 TRs (6) 62:3;63:4,6;64:11; 65:23;73:25 trucks (1) 133:16	turn (15) 51:18;52:4;91:21; 93:17;99:8;104:7; 137:4;141:20;183:16, 23;191:12,13;192:17; 244:13;253:15 TURNER (21) 35:24;40:25;67:13; 68:1;72:18,21;73:11; 78:11;90:24;174:11; 201:15;202:8;209:19, 22;210:1;228:15; 241:10;249:13; 251:19;252:1,6 turning (5) 106:13;170:17; 171:5;172:11;253:14 turnover (1)	ubiquitous (3) 21:25;210:11,12 UC (4) 144:25;145:5; 164:16;166:13 udder (1) 15:5 ultimately (3) 89:17;117:23; 118:10 umbrella (1) 17:17 unanimous (1) 227:9 unanimously (1)
250:11;251:9 topical (1) 15:1 topics (3) 92:9,10;180:15 total (3) 136:3;169:10; 179:23 Totally (4) 62:23;127:1; 225:19;238:19 touch (2) 94:12;174:1 touching (1) 140:14 tough (1) 75:18	trade-off (1) 45:8 trade-offs (5) 44:15;80:9,11; 88:22,23 trading (1) 224:10 traditional (2) 223:20;224:9 tragic (1) 52:23 trailing (1) 245:1 train (1) 164:4 Training (3) 103:12;154:6;157:4 traits (1) 57:16	240:10 tries (1) 211:7 trimmings (11) 121:22;131:23; 134:3;135:2,18,19,23; 136:1,4,8;145:25 trip (1) 86:25 tropic (2) 9:6,21 tropine (2) 9:6,21 TRs (6) 62:3;63:4,6;64:11; 65:23;73:25 trucks (1) 133:16 true (2)	turn (15) 51:18;52:4;91:21; 93:17;99:8;104:7; 137:4;141:20;183:16, 23;191:12,13;192:17; 244:13;253:15 TURNER (21) 35:24;40:25;67:13; 68:1;72:18,21;73:11; 78:11;90:24;174:11; 201:15;202:8;209:19, 22;210:1;228:15; 241:10;249:13; 251:19;252:1,6 turning (5) 106:13;170:17; 171:5;172:11;253:14	ubiquitous (3) 21:25;210:11,12 UC (4) 144:25;145:5; 164:16;166:13 udder (1) 15:5 ultimately (3) 89:17;117:23; 118:10 umbrella (1) 17:17 unanimous (1) 227:9 unanimously (1) 54:17
250:11;251:9 topical (1) 15:1 topics (3) 92:9,10;180:15 total (3) 136:3;169:10; 179:23 Totally (4) 62:23;127:1; 225:19;238:19 touch (2) 94:12;174:1 touching (1) 140:14 tough (1) 75:18 tourist (1)	trade-off (1) 45:8 trade-offs (5) 44:15;80:9,11; 88:22,23 trading (1) 224:10 traditional (2) 223:20;224:9 tragic (1) 52:23 trailing (1) 245:1 train (1) 164:4 Training (3) 103:12;154:6;157:4 traits (1)	240:10 tries (1) 211:7 trimmings (11) 121:22;131:23; 134:3;135:2,18,19,23; 136:1,4,8;145:25 trip (1) 86:25 tropic (2) 9:6,21 tropine (2) 9:6,21 TRs (6) 62:3;63:4,6;64:11; 65:23;73:25 trucks (1) 133:16	turn (15) 51:18;52:4;91:21; 93:17;99:8;104:7; 137:4;141:20;183:16, 23;191:12,13;192:17; 244:13;253:15 TURNER (21) 35:24;40:25;67:13; 68:1;72:18,21;73:11; 78:11;90:24;174:11; 201:15;202:8;209:19, 22;210:1;228:15; 241:10;249:13; 251:19;252:1,6 turning (5) 106:13;170:17; 171:5;172:11;253:14 turnover (1)	ubiquitous (3) 21:25;210:11,12 UC (4) 144:25;145:5; 164:16;166:13 udder (1) 15:5 ultimately (3) 89:17;117:23; 118:10 umbrella (1) 17:17 unanimous (1) 227:9 unanimously (1) 54:17 uncomfortable (4)
250:11;251:9 topical (1) 15:1 topics (3) 92:9,10;180:15 total (3) 136:3;169:10; 179:23 Totally (4) 62:23;127:1; 225:19;238:19 touch (2) 94:12;174:1 touching (1) 140:14 tough (1) 75:18 tourist (1) 164:4	trade-off (1) 45:8 trade-offs (5) 44:15;80:9,11; 88:22,23 trading (1) 224:10 traditional (2) 223:20;224:9 tragic (1) 52:23 trailing (1) 245:1 train (1) 164:4 Training (3) 103:12;154:6;157:4 traits (1) 57:16	240:10 tries (1) 211:7 trimmings (11) 121:22;131:23; 134:3;135:2,18,19,23; 136:1,4,8;145:25 trip (1) 86:25 tropic (2) 9:6,21 tropine (2) 9:6,21 TRs (6) 62:3;63:4,6;64:11; 65:23;73:25 trucks (1) 133:16 true (2)	turn (15) 51:18;52:4;91:21; 93:17;99:8;104:7; 137:4;141:20;183:16, 23;191:12,13;192:17; 244:13;253:15 TURNER (21) 35:24;40:25;67:13; 68:1;72:18,21;73:11; 78:11;90:24;174:11; 201:15;202:8;209:19, 22;210:1;228:15; 241:10;249:13; 251:19;252:1,6 turning (5) 106:13;170:17; 171:5;172:11;253:14 turnover (1) 153:4	ubiquitous (3) 21:25;210:11,12 UC (4) 144:25;145:5; 164:16;166:13 udder (1) 15:5 ultimately (3) 89:17;117:23; 118:10 umbrella (1) 17:17 unanimous (1) 227:9 unanimously (1) 54:17 uncomfortable (4) 73:15;196:10,12,13
250:11;251:9 topical (1) 15:1 topics (3) 92:9,10;180:15 total (3) 136:3;169:10; 179:23 Totally (4) 62:23;127:1; 225:19;238:19 touch (2) 94:12;174:1 touching (1) 140:14 tough (1) 75:18 tourist (1) 164:4 toward (4)	trade-off (1) 45:8 trade-offs (5) 44:15;80:9,11; 88:22,23 trading (1) 224:10 traditional (2) 223:20;224:9 tragic (1) 52:23 trailing (1) 245:1 train (1) 164:4 Training (3) 103:12;154:6;157:4 traits (1) 57:16 transition (3)	240:10 tries (1) 211:7 trimmings (11) 121:22;131:23; 134:3;135:2,18,19,23; 136:1,4,8;145:25 trip (1) 86:25 tropic (2) 9:6,21 tropine (2) 9:6,21 TRs (6) 62:3;63:4,6;64:11; 65:23;73:25 trucks (1) 133:16 true (2) 140:20;181:17	turn (15) 51:18;52:4;91:21; 93:17;99:8;104:7; 137:4;141:20;183:16, 23;191:12,13;192:17; 244:13;253:15 TURNER (21) 35:24;40:25;67:13; 68:1;72:18,21;73:11; 78:11;90:24;174:11; 201:15;202:8;209:19, 22;210:1;228:15; 241:10;249:13; 251:19;252:1,6 turning (5) 106:13;170:17; 171:5;172:11;253:14 turnover (1) 153:4 Turns (3)	ubiquitous (3) 21:25;210:11,12 UC (4) 144:25;145:5; 164:16;166:13 udder (1) 15:5 ultimately (3) 89:17;117:23; 118:10 umbrella (1) 17:17 unanimous (1) 227:9 unanimously (1) 54:17 uncomfortable (4) 73:15;196:10,12,13 uncommon (1)
250:11;251:9 topical (1) 15:1 topics (3) 92:9,10;180:15 total (3) 136:3;169:10; 179:23 Totally (4) 62:23;127:1; 225:19;238:19 touch (2) 94:12;174:1 touching (1) 140:14 tough (1) 75:18 tourist (1) 164:4 toward (4) 69:6;115:25; 230:10;235:17 towards (7)	trade-off (1) 45:8 trade-offs (5) 44:15;80:9,11; 88:22,23 trading (1) 224:10 traditional (2) 223:20;224:9 tragic (1) 52:23 trailing (1) 245:1 train (1) 164:4 Training (3) 103:12;154:6;157:4 traits (1) 57:16 transition (3) 117:6;188:1;225:25	240:10 tries (1) 211:7 trimmings (11) 121:22;131:23; 134:3;135:2,18,19,23; 136:1,4,8;145:25 trip (1) 86:25 tropic (2) 9:6,21 tropine (2) 9:6,21 TRs (6) 62:3;63:4,6;64:11; 65:23;73:25 trucks (1) 133:16 true (2) 140:20;181:17 Trust (4) 38:14;55:12;56:21; 104:15	turn (15) 51:18;52:4;91:21; 93:17;99:8;104:7; 137:4;141:20;183:16, 23;191:12,13;192:17; 244:13;253:15 TURNER (21) 35:24;40:25;67:13; 68:1;72:18,21;73:11; 78:11;90:24;174:11; 201:15;202:8;209:19, 22;210:1;228:15; 241:10;249:13; 251:19;252:1,6 turning (5) 106:13;170:17; 171:5;172:11;253:14 turnover (1) 153:4 Turns (3) 122:14;166:22; 226:10 tweak (1)	ubiquitous (3) 21:25;210:11,12 UC (4) 144:25;145:5; 164:16;166:13 udder (1) 15:5 ultimately (3) 89:17;117:23; 118:10 umbrella (1) 17:17 unanimous (1) 227:9 unanimously (1) 54:17 uncomfortable (4) 73:15;196:10,12,13 uncommon (1) 252:5
250:11;251:9 topical (1) 15:1 topics (3) 92:9,10;180:15 total (3) 136:3;169:10; 179:23 Totally (4) 62:23;127:1; 225:19;238:19 touch (2) 94:12;174:1 touching (1) 140:14 tough (1) 75:18 tourist (1) 164:4 toward (4) 69:6;115:25; 230:10;235:17	trade-off (1) 45:8 trade-offs (5) 44:15;80:9,11; 88:22,23 trading (1) 224:10 traditional (2) 223:20;224:9 tragic (1) 52:23 trailing (1) 245:1 train (1) 164:4 Training (3) 103:12;154:6;157:4 traits (1) 57:16 transition (3) 117:6;188:1;225:25 transparency (9)	240:10 tries (1) 211:7 trimmings (11) 121:22;131:23; 134:3;135:2,18,19,23; 136:1,4,8;145:25 trip (1) 86:25 tropic (2) 9:6,21 tropine (2) 9:6,21 TRs (6) 62:3;63:4,6;64:11; 65:23;73:25 trucks (1) 133:16 true (2) 140:20;181:17 Trust (4) 38:14;55:12;56:21;	turn (15) 51:18;52:4;91:21; 93:17;99:8;104:7; 137:4;141:20;183:16, 23;191:12,13;192:17; 244:13;253:15 TURNER (21) 35:24;40:25;67:13; 68:1;72:18,21;73:11; 78:11;90:24;174:11; 201:15;202:8;209:19, 22;210:1;228:15; 241:10;249:13; 251:19;252:1,6 turning (5) 106:13;170:17; 171:5;172:11;253:14 turnover (1) 153:4 Turns (3) 122:14;166:22; 226:10	ubiquitous (3) 21:25;210:11,12 UC (4) 144:25;145:5; 164:16;166:13 udder (1) 15:5 ultimately (3) 89:17;117:23; 118:10 umbrella (1) 17:17 unanimous (1) 227:9 unanimously (1) 54:17 uncomfortable (4) 73:15;196:10,12,13 uncommon (1) 252:5 uncomposted (1)
250:11;251:9 topical (1) 15:1 topics (3) 92:9,10;180:15 total (3) 136:3;169:10; 179:23 Totally (4) 62:23;127:1; 225:19;238:19 touch (2) 94:12;174:1 touching (1) 140:14 tough (1) 75:18 tourist (1) 164:4 toward (4) 69:6;115:25; 230:10;235:17 towards (7)	trade-off (1) 45:8 trade-offs (5) 44:15;80:9,11; 88:22,23 trading (1) 224:10 traditional (2) 223:20;224:9 tragic (1) 52:23 trailing (1) 245:1 train (1) 164:4 Training (3) 103:12;154:6;157:4 traits (1) 57:16 transition (3) 117:6;188:1;225:25 transparency (9) 55:3,12,22;56:3,8,	240:10 tries (1) 211:7 trimmings (11) 121:22;131:23; 134:3;135:2,18,19,23; 136:1,4,8;145:25 trip (1) 86:25 tropic (2) 9:6,21 tropine (2) 9:6,21 TRs (6) 62:3;63:4,6;64:11; 65:23;73:25 trucks (1) 133:16 true (2) 140:20;181:17 Trust (4) 38:14;55:12;56:21; 104:15	turn (15) 51:18;52:4;91:21; 93:17;99:8;104:7; 137:4;141:20;183:16, 23;191:12,13;192:17; 244:13;253:15 TURNER (21) 35:24;40:25;67:13; 68:1;72:18,21;73:11; 78:11;90:24;174:11; 201:15;202:8;209:19, 22;210:1;228:15; 241:10;249:13; 251:19;252:1,6 turning (5) 106:13;170:17; 171:5;172:11;253:14 turnover (1) 153:4 Turns (3) 122:14;166:22; 226:10 tweak (1)	ubiquitous (3) 21:25;210:11,12 UC (4) 144:25;145:5; 164:16;166:13 udder (1) 15:5 ultimately (3) 89:17;117:23; 118:10 umbrella (1) 17:17 unanimous (1) 227:9 unanimously (1) 54:17 uncomfortable (4) 73:15;196:10,12,13 uncommon (1) 252:5 uncomposted (1) 106:16
250:11;251:9 topical (1) 15:1 topics (3) 92:9,10;180:15 total (3) 136:3;169:10; 179:23 Totally (4) 62:23;127:1; 225:19;238:19 touch (2) 94:12;174:1 touching (1) 140:14 tough (1) 75:18 tourist (1) 164:4 toward (4) 69:6;115:25; 230:10;235:17 towards (7) 28:4;54:22;55:3,23;	trade-off (1) 45:8 trade-offs (5) 44:15;80:9,11; 88:22,23 trading (1) 224:10 traditional (2) 223:20;224:9 tragic (1) 52:23 trailing (1) 245:1 train (1) 164:4 Training (3) 103:12;154:6;157:4 traits (1) 57:16 transition (3) 117:6;188:1;225:25 transparency (9) 55:3,12,22;56:3,8, 21,22;57:7;59:9	240:10 tries (1) 211:7 trimmings (11) 121:22;131:23; 134:3;135:2,18,19,23; 136:1,4,8;145:25 trip (1) 86:25 tropic (2) 9:6,21 tropine (2) 9:6,21 TRs (6) 62:3;63:4,6;64:11; 65:23;73:25 trucks (1) 133:16 true (2) 140:20;181:17 Trust (4) 38:14;55:12;56:21; 104:15 try (31)	turn (15) 51:18;52:4;91:21; 93:17;99:8;104:7; 137:4;141:20;183:16, 23;191:12,13;192:17; 244:13;253:15 TURNER (21) 35:24;40:25;67:13; 68:1;72:18,21;73:11; 78:11;90:24;174:11; 201:15;202:8;209:19, 22;210:1;228:15; 241:10;249:13; 251:19;252:1,6 turning (5) 106:13;170:17; 171:5;172:11;253:14 turnover (1) 153:4 Turns (3) 122:14;166:22; 226:10 tweak (1) 175:18	ubiquitous (3) 21:25;210:11,12 UC (4) 144:25;145:5; 164:16;166:13 udder (1) 15:5 ultimately (3) 89:17;117:23; 118:10 umbrella (1) 17:17 unanimous (1) 227:9 unanimously (1) 54:17 uncomfortable (4) 73:15;196:10,12,13 uncommon (1) 252:5 uncomposted (1) 106:16 unconscious (1)
250:11;251:9 topical (1) 15:1 topics (3) 92:9,10;180:15 total (3) 136:3;169:10; 179:23 Totally (4) 62:23;127:1; 225:19;238:19 touch (2) 94:12;174:1 touching (1) 140:14 tough (1) 75:18 tourist (1) 164:4 toward (4) 69:6;115:25; 230:10;235:17 towards (7) 28:4;54:22;55:3,23; 57:7;230:25;232:19 toxic (11)	trade-off (1) 45:8 trade-offs (5) 44:15;80:9,11; 88:22,23 trading (1) 224:10 traditional (2) 223:20;224:9 tragic (1) 52:23 trailing (1) 245:1 train (1) 164:4 Training (3) 103:12;154:6;157:4 trais (1) 57:16 transition (3) 117:6;188:1;225:25 transparency (9) 55:3,12,22;56:3,8, 21,22;57:7;59:9 transparent (1) 104:16	240:10 tries (1) 211:7 trimmings (11) 121:22;131:23; 134:3;135:2,18,19,23; 136:1,4,8;145:25 trip (1) 86:25 tropic (2) 9:6,21 tropine (2) 9:6,21 TRs (6) 62:3;63:4,6;64:11; 65:23;73:25 trucks (1) 133:16 true (2) 140:20;181:17 Trust (4) 38:14;55:12;56:21; 104:15 try (31) 7:15;16:13;20:19; 25:20;27:1;29:13;	turn (15) 51:18;52:4;91:21; 93:17;99:8;104:7; 137:4;141:20;183:16, 23;191:12,13;192:17; 244:13;253:15 TURNER (21) 35:24;40:25;67:13; 68:1;72:18,21;73:11; 78:11;90:24;174:11; 201:15;202:8;209:19, 22;210:1;228:15; 241:10;249:13; 251:19;252:1,6 turning (5) 106:13;170:17; 171:5;172:11;253:14 turnover (1) 153:4 Turns (3) 122:14;166:22; 226:10 tweak (1) 175:18 two (47) 6:4;7:11;24:1;	ubiquitous (3) 21:25;210:11,12 UC (4) 144:25;145:5; 164:16;166:13 udder (1) 15:5 ultimately (3) 89:17;117:23; 118:10 umbrella (1) 17:17 unanimous (1) 227:9 unanimously (1) 54:17 uncomfortable (4) 73:15;196:10,12,13 uncommon (1) 252:5 uncomposted (1) 106:16 unconscious (1) 231:5 under (18)
250:11;251:9 topical (1) 15:1 topics (3) 92:9,10;180:15 total (3) 136:3;169:10; 179:23 Totally (4) 62:23;127:1; 225:19;238:19 touch (2) 94:12;174:1 touching (1) 140:14 tough (1) 75:18 tourist (1) 164:4 toward (4) 69:6;115:25; 230:10;235:17 towards (7) 28:4;54:22;55:3,23; 57:7;230:25;232:19 toxic (11) 13:5,6,7;16:4,7;	trade-off (1) 45:8 trade-offs (5) 44:15;80:9,11; 88:22,23 trading (1) 224:10 traditional (2) 223:20;224:9 tragic (1) 52:23 trailing (1) 245:1 train (1) 164:4 Training (3) 103:12;154:6;157:4 trais (1) 57:16 transition (3) 117:6;188:1;225:25 transparency (9) 55:3,12,22;56:3,8, 21,22;57:7;59:9 transparent (1) 104:16 transplant (2)	240:10 tries (1) 211:7 trimmings (11) 121:22;131:23; 134:3;135:2,18,19,23; 136:1,4,8;145:25 trip (1) 86:25 tropic (2) 9:6,21 tropine (2) 9:6,21 tropine (2) 9:6,21 trucks (1) 133:16 true (2) 140:20;181:17 Trust (4) 38:14;55:12;56:21; 104:15 try (31) 7:15;16:13;20:19; 25:20;27:1;29:13; 40:13;42:22,23,25;	turn (15) 51:18;52:4;91:21; 93:17;99:8;104:7; 137:4;141:20;183:16, 23;191:12,13;192:17; 244:13;253:15 TURNER (21) 35:24;40:25;67:13; 68:1;72:18,21;73:11; 78:11;90:24;174:11; 201:15;202:8;209:19, 22;210:1;228:15; 241:10;249:13; 251:19;252:1,6 turning (5) 106:13;170:17; 171:5;172:11;253:14 turnover (1) 153:4 Turns (3) 122:14;166:22; 226:10 tweak (1) 175:18 two (47) 6:4;7:11;24:1; 32:13,15;34:24;35:4,	ubiquitous (3) 21:25;210:11,12 UC (4) 144:25;145:5; 164:16;166:13 udder (1) 15:5 ultimately (3) 89:17;117:23; 118:10 umbrella (1) 17:17 unanimous (1) 227:9 unanimously (1) 54:17 uncomfortable (4) 73:15;196:10,12,13 uncomnon (1) 252:5 uncomposted (1) 106:16 unconscious (1) 231:5 under (18) 8:1,6;55:21,21;
250:11;251:9 topical (1) 15:1 topics (3) 92:9,10;180:15 total (3) 136:3;169:10; 179:23 Totally (4) 62:23;127:1; 225:19;238:19 touch (2) 94:12;174:1 touching (1) 140:14 tough (1) 75:18 tourist (1) 164:4 toward (4) 69:6;115:25; 230:10;235:17 towards (7) 28:4;54:22;55:3,23; 57:7;230:25;232:19 toxic (11) 13:5,6,7;16:4,7; 32:6;204:3;205:11;	trade-off (1) 45:8 trade-offs (5) 44:15;80:9,11; 88:22,23 trading (1) 224:10 traditional (2) 223:20;224:9 tragic (1) 52:23 trailing (1) 245:1 train (1) 164:4 Training (3) 103:12;154:6;157:4 trais (1) 57:16 transition (3) 117:6;188:1;225:25 transparency (9) 55:3,12,22;56:3,8, 21,22;57:7;59:9 transparent (1) 104:16 transplant (2) 199:10,11	240:10 tries (1) 211:7 trimmings (11) 121:22;131:23; 134:3;135:2,18,19,23; 136:1,4,8;145:25 trip (1) 86:25 tropic (2) 9:6,21 tropine (2) 9:6,21 tropine (2) 9:6,21 trucks (1) 133:16 true (2) 140:20;181:17 Trust (4) 38:14;55:12;56:21; 104:15 try (31) 7:15;16:13;20:19; 25:20;27:1;29:13; 40:13;42:22,23,25; 51:24;59:16;77:18;	turn (15) 51:18;52:4;91:21; 93:17;99:8;104:7; 137:4;141:20;183:16, 23;191:12,13;192:17; 244:13;253:15 TURNER (21) 35:24;40:25;67:13; 68:1;72:18,21;73:11; 78:11;90:24;174:11; 201:15;202:8;209:19, 22;210:1;228:15; 241:10;249:13; 251:19;252:1,6 turning (5) 106:13;170:17; 171:5;172:11;253:14 turnover (1) 153:4 Turns (3) 122:14;166:22; 226:10 tweak (1) 175:18 two (47) 6:4;7:11;24:1; 32:13,15;34:24;35:4, 7,18;39:17;42:2;	ubiquitous (3) 21:25;210:11,12 UC (4) 144:25;145:5; 164:16;166:13 udder (1) 15:5 ultimately (3) 89:17;117:23; 118:10 umbrella (1) 17:17 unanimous (1) 227:9 unanimously (1) 54:17 uncomfortable (4) 73:15;196:10,12,13 uncomnon (1) 252:5 uncomposted (1) 106:16 unconscious (1) 231:5 under (18) 8:1,6;55:21,21; 61:3;70:1;90:17;
250:11;251:9 topical (1) 15:1 topics (3) 92:9,10;180:15 total (3) 136:3;169:10; 179:23 Totally (4) 62:23;127:1; 225:19;238:19 touch (2) 94:12;174:1 touching (1) 140:14 tough (1) 75:18 tourist (1) 164:4 toward (4) 69:6;115:25; 230:10;235:17 towards (7) 28:4;54:22;55:3,23; 57:7;230:25;232:19 toxic (11) 13:5,6,7;16:4,7; 32:6;204:3;205:11; 211:1,16;223:8	trade-off (1) 45:8 trade-offs (5) 44:15;80:9,11; 88:22,23 trading (1) 224:10 traditional (2) 223:20;224:9 tragic (1) 52:23 trailing (1) 245:1 train (1) 164:4 Training (3) 103:12;154:6;157:4 trais (1) 57:16 transition (3) 117:6;188:1;225:25 transparency (9) 55:3,12,22;56:3,8, 21,22;57:7;59:9 transparent (1) 104:16 transplant (2) 199:10,11 trap (3)	240:10 tries (1) 211:7 trimmings (11) 121:22;131:23; 134:3;135:2,18,19,23; 136:1,4,8;145:25 trip (1) 86:25 tropic (2) 9:6,21 tropine (2) 9:6,21 tropine (2) 9:6,21 trucks (1) 133:16 true (2) 140:20;181:17 Trust (4) 38:14;55:12;56:21; 104:15 try (31) 7:15;16:13;20:19; 25:20;27:1;29:13; 40:13;42:22,23,25; 51:24;59:16;77:18; 83:20;104:18;124:7,	turn (15) 51:18;52:4;91:21; 93:17;99:8;104:7; 137:4;141:20;183:16, 23;191:12,13;192:17; 244:13;253:15 TURNER (21) 35:24;40:25;67:13; 68:1;72:18,21;73:11; 78:11;90:24;174:11; 201:15;202:8;209:19, 22;210:1;228:15; 241:10;249:13; 251:19;252:1,6 turning (5) 106:13;170:17; 171:5;172:11;253:14 turnover (1) 153:4 Turns (3) 122:14;166:22; 226:10 tweak (1) 175:18 two (47) 6:4;7:11;24:1; 32:13,15;34:24;35:4, 7,18;39:17;42:2; 51:14;52:9;53:5;	ubiquitous (3) 21:25;210:11,12 UC (4) 144:25;145:5; 164:16;166:13 udder (1) 15:5 ultimately (3) 89:17;117:23; 118:10 umbrella (1) 17:17 unanimous (1) 227:9 unanimously (1) 54:17 uncomfortable (4) 73:15;196:10,12,13 uncommon (1) 252:5 uncomposted (1) 106:16 unconscious (1) 231:5 under (18) 8:1,6;55:21,21; 61:3;70:1;90:17; 95:11;97:16;107:5;
250:11;251:9 topical (1) 15:1 topics (3) 92:9,10;180:15 total (3) 136:3;169:10; 179:23 Totally (4) 62:23;127:1; 225:19;238:19 touch (2) 94:12;174:1 touching (1) 140:14 tough (1) 75:18 tourist (1) 164:4 toward (4) 69:6;115:25; 230:10;235:17 towards (7) 28:4;54:22;55:3,23; 57:7;230:25;232:19 toxic (11) 13:5,6,7;16:4,7; 32:6;204:3;205:11;	trade-off (1) 45:8 trade-offs (5) 44:15;80:9,11; 88:22,23 trading (1) 224:10 traditional (2) 223:20;224:9 tragic (1) 52:23 trailing (1) 245:1 train (1) 164:4 Training (3) 103:12;154:6;157:4 trais (1) 57:16 transition (3) 117:6;188:1;225:25 transparency (9) 55:3,12,22;56:3,8, 21,22;57:7;59:9 transparent (1) 104:16 transplant (2) 199:10,11	240:10 tries (1) 211:7 trimmings (11) 121:22;131:23; 134:3;135:2,18,19,23; 136:1,4,8;145:25 trip (1) 86:25 tropic (2) 9:6,21 tropine (2) 9:6,21 tropine (2) 9:6,21 trucks (1) 133:16 true (2) 140:20;181:17 Trust (4) 38:14;55:12;56:21; 104:15 try (31) 7:15;16:13;20:19; 25:20;27:1;29:13; 40:13;42:22,23,25; 51:24;59:16;77:18;	turn (15) 51:18;52:4;91:21; 93:17;99:8;104:7; 137:4;141:20;183:16, 23;191:12,13;192:17; 244:13;253:15 TURNER (21) 35:24;40:25;67:13; 68:1;72:18,21;73:11; 78:11;90:24;174:11; 201:15;202:8;209:19, 22;210:1;228:15; 241:10;249:13; 251:19;252:1,6 turning (5) 106:13;170:17; 171:5;172:11;253:14 turnover (1) 153:4 Turns (3) 122:14;166:22; 226:10 tweak (1) 175:18 two (47) 6:4;7:11;24:1; 32:13,15;34:24;35:4, 7,18;39:17;42:2;	ubiquitous (3) 21:25;210:11,12 UC (4) 144:25;145:5; 164:16;166:13 udder (1) 15:5 ultimately (3) 89:17;117:23; 118:10 umbrella (1) 17:17 unanimous (1) 227:9 unanimously (1) 54:17 uncomfortable (4) 73:15;196:10,12,13 uncomnon (1) 252:5 uncomposted (1) 106:16 unconscious (1) 231:5 under (18) 8:1,6;55:21,21; 61:3;70:1;90:17;

- Vol. 4 April 30, 2024

186:7:190:10:250:7 unpackaged (1) 61:9:66:13:71:7: 8,9,13,15;215:4,7,21; usually (6) undergo (1) 117:16 8:22;12:13;13:1; 93:18:94:4.7.14: 216:17;219:8;221:25; 203:24 unstable (4) 96:12;98:10;245:17 223:13:226:9:227:8, 18:9;185:24;191:1 underneath (1) 12:4.4.5:31:17 updating (3) 13;229:2;241:8; utility (1) 53:5;74:21;94:5 140:2 137:6 untangle (1) 243:18;244:2,4; 248:19;249:5 underscore (1) 141:19 upgrade (1) utilization (1) 217:25 43:12 unusual (2) 175:10 used (97) underscored (1) 150:16:153:2 upgrades (2) 8:2,16,18,22,22; utilize (1) 39:14 unwanted (1) 133:6;175:13 9:14,18;10:3,18,18, 83:1 underscores (1) 203:15 upholding (1) 19:13:16:14:3.4.5: utmost (1) 63:20 unwavering (1) 53:18 15:3,4,23;16:1,20; 81:4 understandable (1) 65:22 upstairs (1) 17:12;20:16;21:11; utter (1) up (126) 195:22 60:6 23:2;25:3;29:17; 96:19 understood (2) 10:12;15:6;19:10, up-to-date (1) 30:20,20,21;31:1; V 80:2;185:9 20;20:22;21:13;23:3; 98:12 32:5;33:2,13;35:10; undoubtedly (1) 25:9;26:6;27:3;29:12; urban (2) 36:19,24;45:25;46:7, 166:2;168:21 25;47:2,16,20;63:6, 206:2 30:24;33:10;34:5,10, vacuum (1) 11;75:5,5,11;97:24; 24;35:7;39:7;41:6,22; UREC(1) **Unfortunately (2)** 137:25 128:23;169:25 43:3;45:24;49:8; 234:5 106:12;109:22; valid (3) **UNIDENTIFIED (1)** 51:11;52:3;58:6,20; urine (2) 110:12;113:18;114:1, 53:21;86:7;87:4 59:23;60:25;70:7; 9:23;204:8 3;117:21;120:14,18; Valley (7) 92:6 Union (4) 72:23;76:3;77:18; usable (1) 140:21;185:19,19,22; 132:22;138:19; 9:10;114:22; 78:14;79:5,18;81:20; 143:22 186:1,2,5,6,15,18,20, 144:15,19;146:8; 208:18;214:4 85:21;93:17;99:2; usage (1) 21;187:6,20,20;190:7, 163:5;168:14 unique (4) 100:6;104:12,12; 46:16 8,9;192:19;194:17; valuable (9) 100:13;150:15; 105:16;106:25; usages (3) 198:16;201:1;203:14; 64:18;72:6;74:9,25; 165:25;181:21 107:16;108:13; 138:12;140:21; 205:12;206:14;210:7; 83:25;99:6;151:12; unit (3) 109:10;110:16; 173:5 213:12;216:1,14; 168:10,11 **USC** (1) 116:4,5;189:15 111:20;114:5,10; 217:7;220:7;221:15, value (7) United (2) 118:6,11:120:25; 58:8 17;224:3,21;227:14; 74:21:121:18; 111:23:115:6 121:5;127:11;128:4, **USDA (9)** 234:16,17;236:17; 129:8;158:12;175:23; universal (1) 19:129:2:130:23.24: 56:10:97:13: 242:6 240:19,20 134:16 131:24;132:1;133:15, 102:24;107:5;116:4; useful (21) valued (1) universalize (1) 25;136:20;137:19; 150:15;166:13; 29:13;68:11;71:22; 30:5 181:21;220:12 72:3,17;110:6; 134:10138:8;141:18;142:2; values (3) universalized (1) use (114) 114:24;115:21; 16:11;156:25,25 143:8;148:19,20; 134:14 149:25:150:10.24; 8:1,5,6;9:8,16,25; 116:14,20;118:4; varieties (3) universally (1) 160:4;168:5,15; 10:15,21,24;11:14; 135:10:140:22: 74:13,15;117:19 163:6 172:17;174:21,21; 15:20;16:13,24;17:2, 154:16,25;155:19; variety (10) universe (5) 177:3,10:178:16; 17,17;21:19;22:11; 156:9;157:17;202:22; 15:7;104:22;108:2; 228:25;230:19; 180:12;183:4,9; 29:6;33:18;35:2;43:7; 206:9;236:2 111:6,16;113:6,17; 234:6;240:2;247:3 188:13:189:7.11; 44:18:45:9:46:13: useless (1) 152:24:160:10:215:6 various (11) universities (1) 190:1;191:2,15,15; 47:8;50:11;51:11; 165:13 192:17;194:2,7; 80:24 63:4;69:8;70:8;83:3, user (2) 70:7;82:18;83:5; 169:3,3 university (2) 196:21;199:12;203:5; 9,16,25;96:21;99:7; 91:10;110:16;114:2; 85:2;103:3 204:15;205:1;210:16, 105:10;115:16; users (2) 135:13;203:9;207:24; 207:1;211:22 unknown (4) 17,20;212:14;218:15, 121:10,12;126:2; 208:22;209:4 86:4;190:7;209:10; 128:23;131:17,18,22; 20;219:4,23;223:1; uses (12) varroa (2) 240:3 226:3,12;228:23; 133:2;137:23;138:24; 22:11;85:4;110:18; 34:22;35:10 unless (5) 229:12;230:22; 141:6;143:13,13; 150:7;167:9;202:17; vast (4) 9:16;108:12; 232:22;233:18;242:8; 144:11,25;145:15; 203:9,10;206:17,18, 123:9;144:22,24; 198:18;206:19; 244:19;245:12;248:8, 146:9;149:14,21,22; 20;215:6 214:16 227:10 15:253:5 150:5,11,12;151:20, using (23) vectors (1) 11:1;24:21;45:1; unlike (1) upcoming (3) 24;158:15;160:1; 111:1 72:16;83:11;92:9 137:22 162:21,21;166:8; 64:14;114:24;115:14; veg (2) 43:25;123:3 unlikely (1) 168:18;169:12;172:3; 141:5;160:3;167:12, update (8) 52:10;54:9;63:24; 13:25 173:13;175:24; 14;168:16;170:18; vegetable (4) 173:14;187:16;188:9; unlined (1) 81:15;92:9;94:2;95:5; 181:23;185:17,21; 46:7;108:14;115:9; 135:8 159:19 188:10,11;190:9; 192:24;193:12; 205:12 unpack (1) updated (6) 191:9.24;194:6.16; 200:19:207:2,24; vegetables (1) 171:1 53:13;65:13;95:16; 197:6,12;202:17; 208:8;212:16;221:2 205:20 unpackage (1) 97:22;98:7.8 203:18,19;204:12; usual (1) vehicles (1) updates (10) 205:21;207:19;209:5, 210:17 231:17 75:11

- Vol. 4 April 30, 2024

Spring 2024 Meeting				April 30, 2024
vein (2)	164:6	walls (1)	16:19;26:10;28:12;	weirdly (1)
32:4;95:12	virtual (2)	58:20	36:19;48:20;57:8,11;	163:5
vent (5)	95:23,25	Walmart (1)	58:14;61:21;62:24;	Welcome (8)
191:2,9;194:4,5,12	visible (3)	122:16	66:1;71:5;73:24,25,	6:4,7;52:6;85:8;
vented (1)	108:4,5,16	Walmarts (1)	25;74:8;78:5;85:4;	99:21;177:8;183:20;
191:10	visit (1)	122:16	86:11;89:14;90:8,10;	203:3
venting (1)	223:3	wants (6)	92:7;98:19;105:24;	welfare (9)
192:2	visits (1)	60:6;64:24;122:14;	106:19;109:9;111:7;	24:13,14;33:3,21;
vents (1)	158:1	140:25;229:9;238:15	115:22;117:16;	34:12;38:1;49:17,23;
192:17	visual (1)	ware (4)	119:21;120:16;	50:15
venue (1)	215:17	124:25;135:8;	129:21;120:10,	well- (1)
243:22	vitamin (2)	124.25,155.8, 141:7;169:18	143:15;144:19;146:9;	250:23
verification (1)	47:22,22			well-balanced (1)
104:17	vitamins (13)	wares (1) 125:18	155:3;156:9;157:24;	43:15
verifications (1)	46:23;47:5,7,10,12,	warm (2)	162:15;166:16,23; 170:21,21;171:5;	well-evaluated (1)
147:25				30:24
	15,16,19,21;48:8,9;	114:10;191:6	172:19,25;177:3;	
verify (1)	49:6;61:19	warming (1)	179:9;181:6;197:7;	welling (1) 245:12
144:5	VOCs (1) 137:12	146:16	211:1,1;218:20;	
version (9)		wash (1)	237:16;238:18;	well-researched (1)
11:10;31:12;53:8;	voice (3)	167:14	239:18;240:20;241:8,	49:18
54:7;102:11;118:7;	28:21;62:8;230:13	Washington (6)	19;248:5;251:16	weren't (5)
119:24;215:8;216:13	volatile (2)	38:13;117:9;137:8;	ways (30)	46:6;84:16;192:8;
versions (1)	155:11;207:18	166:1,4;182:6	39:4;44:1,5;46:24;	206:23;224:15
117:23	volatiles (1)	waste (56)	49:17;59:25;60:2;	whack (1)
versus (6)	111:2	100:16,17,20;	70:17;74:1;78:8;	156:21
19:22,22;43:10;	volatilization (1)	103:18,22;106:22;	87:20;90:2,7;92:17;	whatnot (1)
137:3;144:7;233:16	120:6	123:24,24;124:14,15;	101:2,11;107:10;	160:4
vessel (1)	volatilizes (1)	125:24,24;126:5;	115:19;137:20;140:9;	what's (27)
106:10	208:7	127:25;128:7;129:2,	146:9;149:20;162:19,	19:24;23:3;25:16;
veterinarian (4)	volume (1)	2,8,14;131:20,25;	19;207:24;208:3,20,	30:12;36:1;56:12;
8:7,22;9:16;33:6	128:4	132:2;135:19,23;	23;209:4;250:14	57:22;58:17;59:24;
veterinarians (3)	vote (21)	142:10;143:7,10,22,	weak (3)	73:16,16;89:7;
23:5,8;25:17	52:21,22;66:7,8,18;	22;144:1,21;145:6,	12:5;27:7;122:1	107:23,24;110:9;
veterinary (4)	81:12;85:18;86:17;	24;146:4,7,15;162:8;	weaker (1)	126:8;141:7;146:3;
8:17;21:12;22:11;	88:2;89:12;91:17;	164:11;165:5,6,6;	26:24	153:21;158:12,23;
24:3	98:18,25;99:3;118:6;	168:1,3;174:3;178:8,	web (1)	168:4;179:15;193:19;
vetted (1)	190:17;198:15;199:3;	25;180:19;182:11,15;	109:13	212:9;240:19;246:10
139:5	201:6,8,20	183:6;239:11,11;	webinar (1)	whatsoever (1)
via (5)	voted (6)	242:8;243:4,6,10	77:21	127:2
15:9;16:3;19:5,6;	52:25;191:22;	wasted (1)	website (3)	whenever (4)
78:5	196:8;198:9,14;	128:25	109:13,14;118:3	105:9,23;106:9;
viable (3)	227:12	wastes (1)	Wednesday (3)	109:9
88:14,19;117:11	votes (2)	131:14	99:2,3;254:6	wherein (1)
VICE (28)	67:20;202:1	wastewater (1)	weed (1)	228:25
27:19;28:16;29:18;	voting (2)	14:5	110:24	where's (2)
60:17;67:19;77:12;	66:15;87:5	watching (2)	weeds (1)	135:9;237:1
87:8,11;93:18,20,24;	vowels (1)	60:11;164:6	55:10	Whereupon (1)
97:20;98:16;159:7;	228:25	water (20)	week (3)	254:5
160:14;179:11;	VPI (1)	12:7;14:8,21;38:22;	45:16;73:6;118:6	wherever (1)
180:13;196:23;	130:3	105:8;164:19;166:9;	week-long (2)	180:8
197:18;201:23;203:8;		185:19,22,23,24;	154:6;157:3	white (1)
212:1,7;217:20;	W	186:1,8,10,21;190:21;	weeks (1)	64:16
219:3;224:20;226:7;		197:13,13,16;215:14	49:20	whole (28)
233:11	wait (2)	water-based (1)	weigh (2)	19:13;33:14;39:6;
view (2)	188:21;209:18	116:8	88:21;177:9	55:4;75:13;88:17;
207:3;213:25	waiting (2)	waterway (1)	weighed (1)	103:4;115:16;131:6;
vigor (1)	41:21;248:14	167:16	31:13	143:25;150:6;152:21;
223:19	walk (2)	waterways (1)	weighing (2)	153:4;159:24;160:1,
vinegar (1)	237:9;242:4	16:23	18:12;44:15	6,7;165:7,10;166:24;
31:15	walking (1)	wax (2)	weight (1)	175:18,23;177:14;
vines (1)	37:14	86:12;177:17	189:24	199:10;210:16;223:7;
214:5	wall (1)	way (68)	weird (1)	225:13;251:11
vineyard (1)	001.4	7.0.0.0.02.15.11	175.16	
villeyaru (1)	231:4	7:8,9;9:23;15:11;	175:16	wholeheartedly (2)

	- `	Vol.	4
April	30.	, 202	24

Spring 2024 Meeting		1		April 30, 2024
40:20;243:15	75:3;101:20	worked (8)	217:6	223:18;224:9,12;
whoops (1)	wondering (3)	25:5;68:14;83:12;	writing (2)	252:4
50:17	89:20;195:1;217:4	94:5;103:9;168:7;	27:14;120:14	yeast (2)
who's (6)	wonky (1)	219:11;230:10	written (19)	61:19;62:12
26:24;45:17;85:3;	236:10	worker (1)	8:6;10:5;22:5;	Yelp (1)
105:15;145:4;237:10	Wood (34)	206:21	25:25;46:12;47:3,18;	147:20
wide (5)	35:23;36:4;40:24;	working (31)	53:17,24;124:11;	yep (1)
22:11;134:3;	43:7;45:14;52:12;	22:21;36:13;38:13,	125:17;171:1;187:22,	51:19
175:11;202:19;	66:4;67:12,25;71:15;	16,16;39:18;40:2;	23;190:5;206:15;	yeses (1)
230:21	75:2;77:12;81:7;	45:17,17;48:14;	211:21;214:16;229:2	204:11
widely (2)	90:23;91:11;138:9;	70:11;72:12;83:19;	wrong (8)	yesterday (4)
7:2;21:19	156:4;170:11;172:15,	84:25;85:11;89:7,8,	70:14,19;127:23;	6:16;61:1;74:12;
widespread (2)	16;174:10,11;202:6;	12;90:11;92:14;	170:20;174:22;175:3;	79:5
209:5;228:7	203:4;209:18;228:14;	94:23;102:17;120:10;	200:19,20	yield (6)
willing (2)	203.4,209.18,228.14, 241:7;242:12;244:25;	128:8;130:24;182:20;	wrote (1)	64:1;76:9;187:19;
63:21;248:1	245:20,24;248:2;	223:12;232:19,20;	226:17	189:17;190:24;191:7
win (1)	249:12;252:10	241:21;249:3	WSDA (1)	yielding (2)
249:8	wooden (1)	works (7)	83:9	110:17;203:25
	138:9			
windows (1) 159:15	138:9 Wood's (1)	20:10;76:10;103:7, 25;104:14;161:20;	Wyoming (3) 34:5,17;42:20	yields (2) 8:25;189:19
	71:5	25;104:14;161:20; 182:7	54.5,17,42:20	
windrow (13) 106:10;107:22;			X	Yolo (5) 103:21;133:20,24;
133:22;137:4;170:16,	wool (1) 25:1	work's (1) 28:17	Λ	103:21;133:20,24; 138:19;155:18
	word (7)		$v_{\rm clow} = 20(1)$	York (1)
18;171:4,9,11,12; 232:11,25;233:2	48:24;96:6,21;97:5;	workshop (1) 145:1	xaloxypropan-2-O (1)	YOFK (1) 7:4
	48:24;96:6,21;97:3; 98:24;172:3;242:6	world (18)	11:24	7:4 York's (1)
windrows (3)			xylazine (3)	27:14
170:19;172:3;	wording (1) 97:12	16:1;44:22;83:19;	32:13;33:1,9	
233:16		100:9,10;114:20; 118:21;126:18;	Y	young (4)
wine (1)	words (7)	144:10;148:15;154:8;	1	23:13;24:8,10;
133:14	6:23;56:3;96:7,18;		!-11 (1)	26:22 VonTube (4)
winery (1)	139:15;170:9;235:17	174:14;177:15;	y'all (1)	YouTube (4)
135:15	work (115)	179:23;180:1;192:15;	99:11	77:25,25;78:5,9
winter (5)	16:15;29:2,14;31:2;	235:19;240:18	yard (14)	Ζ
38:18;82:23;	44:9,18;47:23;51:1,	world's (2)	121:22;131:23;	
135:20;189:6;191:12	17,21;52:13,16;	38:21;144:10	134:3;135:2,18,19,22,	7 9 337 (1)
Wisconsin (2) 142:17,17	55:19;56:20;57:8,9,	worldwide (2) 206:12;211:20	25;136:3,8;139:6;	Z&W (1)
wish (1)	12;58:2;59:7,12,19;	·	145:25;162:1;168:3	34:10
34:19	60:21;62:8,22;64:21,	worms (2) 26:8,15	yards (1)	zero (9)
withdrawal (1)	25;71:2,8;72:1;73:24; 75:5,19;77:13;81:4,7;		138:24	22:8;46:15;67:21;
8:8	82:6,21;84:17;85:20;	wormy (1) 23:10	year (20) 7:12;10:17;20:22;	76:23;103:22;127:7; 167:4;221:1;242:8
within (14) 36:2,9;44:4;63:18;	86:14;88:11,12;89:7; 90:1,25;91:10;92:9,	worried (2) 14:6;163:17	26:6;34:24;38:4,18;	Zoom (3)
30:2,9;44:4;03:18; 82:15;88:3;94:1;	13,14,17,19,23;93:6;	worry (4)	63:21;73:9;74:6; 81:10;133:25;134:2;	6:7;95:21;253:22
118:20;152:6;185:9;	94:4;99:6,16;101:16;	108:25;126:8;		zoonotic (3) 110:22,22;153:8
118:20;152:6;185:9; 187:2;207:4;231:11;	103:1;107:11,15;	108:25;126:8; 129:15;146:10	135:19;143:6;155:18;	110.22,22,133.8
238:13			166:21;189:6,23; 215:5	0
	116:25;117:1;118:14; 119:13,14,20,22;	worse (1) 198:3		U
without (19)			years (52)	0.1.(1)
13:2;30:11;40:4; 46:9;53:13;54:14;	122:23;123:3;132:20,	worth (2)	7:3;27:5,25;38:17;	0.1 (1)
46:9;53:13;54:14; 55:2;62:22;89:23;	21;133:9;134:20; 140:9;141:20;155:11;	88:13;196:20	42:2;49:12;53:6;	187:9
		worthy (1) 129:9	54:18;55:6;59:18;	1
100:10;120:22;	163:16;164:21;		63:22;68:10,15;	I
173:19;185:19;197:5;	165:24;178:19;181:9;	wow (3)	73:18,19;75:8;77:13;	1 (11)
198:4;211:12,17;	183:22;184:6;196:24;	49:3;226:5;237:16	79:21;93:14;97:25;	1(11)
216:15;243:7	198:15;199:22;206:7;	wrap (3)	98:8;100:17;102:16;	126:19;155:10,13;
witnessed (1)	230:10,11,17;231:2,	109:10;172:17;	103:6,22,25;108:15;	156:14;157:16,16;
55:13	16,17,22;232:21;	183:9	109:3,22;113:13;	187:8;210:13,14;
Wolfe (1)	233:19;234:9;235:8;	wrestling (3)	116:7;131:2;134:18;	245:9;254:6
105:19	236:6,22,23;237:12,	27:24;127:17;	145:9,11;154:6;	1:30 (3)
wonder (5)	22;239:2;240:1,4;	143:25	155:11;157:4;161:9;	99:14,18,19
56:2;74:5,6,14;	242:2;246:19;250:4,	write-up (1)	163:16;164:13,16;	10 (9)
89:11 wondorful (2)	10,11,17,25;251:13;	226:11	168:21;180:25;189:2;	30:22;93:14;104:4;
wonderful (2)	252:23	write-ups (1)	197:2;204:15;221:9;	136:1;164:13;183:9;
	1	1	1	1

	1			
189:14;204:11;	170:20;171:7	203 (2)	34:8	5029-1 (1)
224:12	19 (2)	104:25;171:12	3/8 (1)	221:14
10:23 (1)	170:19;191:13	203c2 (2)	156:2	503 (2)
52:1	1986 (1)	106:3,5	3:30 (1)	100:24;172:2
10:35 (2)	120:18	203c3 (1)	104:6	54 (4)
51:24,25	1995 (1)	106:16	3:40 (1)	124:23;125:12;
10:36 (1)	21:24	205 (1)	183:19	134:16;161:11
52:1	1997 (1)	104:25	3:50 (1)	55 (1)
100 (11)	58:7	205.203 (5)	183:18	110:13
43:22;52:24;152:7;	1999-TAP (1)	171:12;231:12,20,	3:52 (1)	56 (1)
153:15,18;154:8,12;	213:10	25;232:3	183:19	8:8
155:8;167:6;178:12;	1st (1)	205.203c (1)	30 (9)	5-day (1)
210:25	160:21	105:21	39:7;103:6;136:23;	171:4
100,000-plus (1)		205.3 (1)	152:7;155:10,11,13;	
134:1	2	236:1	157:15;168:21	6
11 (1)		205.601 (2)	300 (3)	
211:22	2 (1)	205:5;207:17	34:6;38:4;116:17	6 (2)
11:52 (1)	144:1	205.601a (1)	35 (4)	147:14;169:9
99:19	2.0 (1)	185:1	126:4;129:17;	60 (3)
12 (1)	31:12	205.601i (1)	146:4;162:24	155:17;169:10;
8:10	20 (7)	213:9	350 (3)	193:16
1201 (9)	38:17;75:8;100:17;	205.601j (1)	142:15;143:3,6	601a4 (1)
124:17,20;125:20;	131:2,2;136:23;221:9	215:4	36 (1)	202:9
126:11;129:13;	200 (3)	205.602 (2)	30:18	601i5 (1)
167:18,23;168:8;	122:1,5;126:4	227:3;229:2	_	202:9
169:23	2002 (1)	205.603 (1)	4	603a12 (1)
125 (2)	219:24	21:10		15:24
34:11;125:8	2004 (2)	205.603a24 (1)	4 (2)	65 (1)
13 (2)	100:15;219:25	31:11	83:8,24	123:8
163:5;202:2	2011 (2)	205.603b4 (1)	4,000 (1)	67 (1)
131 (2)	102:16;215:6	14:25	122:16	138:18
151:19;171:6	2014 (4)	205603 (2)	40 (7)	7
13-3 (2)	28:9;223:1;227:5,6	8:1;10:15	27:24;122:24;	7
163:5,5	2015 (3)	205-603-A (1)	142:23;143:5;157:16;	F 500 (2)
1383 (7)	10:17;213:17;214:8	14:25	172:1;193:17	7,500 (2)
124:11;134:8;	2015-TR (1)	20-plus (1)	400 (1)	37:10;157:1
145:6,10;146:13;	213:10 2016 (3)	175:13	126:18	70 (3)
165:4,7		21 (1) 37:8	400,000 (2)	121:10;129:18; 138:18
14 (4) 30:22;67:21;145:9,	121:1,9;124:12 2018 (3)		122:17;123:23	138:18
11		22 (4)	42 (1)	
		22 (4)	42 (1)	70s (1)
11 15 (12)	102:18;221:14;	128:4;133:11,12;	57:3	70s (1) 101:1
15 (12)	102:18;221:14; 222:19	128:4;133:11,12; 214:15	57:3 49 (1)	70s (1) 101:1 75 (2)
15 (12) 27:5;55:6;59:18;	102:18;221:14; 222:19 2019 (8)	128:4;133:11,12; 214:15 23 (1)	57:3	70s (1) 101:1
15 (12) 27:5;55:6;59:18; 104:5;157:4;170:23;	102:18;221:14; 222:19 2019 (8) 8:12;10:6;14:11;	128:4;133:11,12; 214:15 23 (1) 122:25	57:3 49 (1) 191:13	70s (1) 101:1 75 (2) 124:14;125:7
15 (12) 27:5;55:6;59:18; 104:5;157:4;170:23; 171:20,23;172:9;	102:18;221:14; 222:19 2019 (8) 8:12;10:6;14:11; 123:3,10;165:24;	128:4;133:11,12; 214:15 23 (1) 122:25 23rd (1)	57:3 49 (1)	70s (1) 101:1 75 (2)
15 (12) 27:5;55:6;59:18; 104:5;157:4;170:23; 171:20,23;172:9; 206:15;229:15;233:6	102:18;221:14; 222:19 2019 (8) 8:12;10:6;14:11; 123:3,10;165:24; 216:8;227:5	128:4;133:11,12; 214:15 23 (1) 122:25 23rd (1) 50:19	57:3 49 (1) 191:13 5	70s (1) 101:1 75 (2) 124:14;125:7 8
15 (12) 27:5;55:6;59:18; 104:5;157:4;170:23; 171:20,23;172:9; 206:15;229:15;233:6 15,000 (2)	102:18;221:14; 222:19 2019 (8) 8:12;10:6;14:11; 123:3,10;165:24; 216:8;227:5 2020 (1)	128:4;133:11,12; 214:15 23 (1) 122:25 23rd (1) 50:19 24 (1)	57:3 49 (1) 191:13 5 5 (2)	70s (1) 101:1 75 (2) 124:14;125:7 8 8,000 (1)
15 (12) 27:5;55:6;59:18; 104:5;157:4;170:23; 171:20,23;172:9; 206:15;229:15;233:6 15,000 (2) 122:8,13	102:18;221:14; 222:19 2019 (8) 8:12;10:6;14:11; 123:3,10;165:24; 216:8;227:5 2020 (1) 184:23	128:4;133:11,12; 214:15 23 (1) 122:25 23rd (1) 50:19 24 (1) 129:18	57:3 49 (1) 191:13 5 5 (2) 168:5;169:9	70s (1) 101:1 75 (2) 124:14;125:7 8 8,000 (1) 20:23
15 (12) 27:5;55:6;59:18; 104:5;157:4;170:23; 171:20,23;172:9; 206:15;229:15;233:6 15,000 (2) 122:8,13 15-day (9)	102:18;221:14; 222:19 2019 (8) 8:12;10:6;14:11; 123:3,10;165:24; 216:8;227:5 2020 (1) 184:23 2021 (3)	128:4;133:11,12; 214:15 23 (1) 122:25 23rd (1) 50:19 24 (1) 129:18 24-year-old (1)	57:3 49 (1) 191:13 5 5 (2) 168:5;169:9 5,000 (2)	70s (1) 101:1 75 (2) 124:14;125:7 8 8,000 (1) 20:23 80 (2)
15 (12) 27:5;55:6;59:18; 104:5;157:4;170:23; 171:20,23;172:9; 206:15;229:15;233:6 15,000 (2) 122:8,13 15-day (9) 170:17,22;171:4;	102:18;221:14; 222:19 2019 (8) 8:12;10:6;14:11; 123:3,10;165:24; 216:8;227:5 2020 (1) 184:23 2021 (3) 184:22;185:4;	128:4;133:11,12; 214:15 23 (1) 122:25 23rd (1) 50:19 24 (1) 129:18 24-year-old (1) 213:21	57:3 49 (1) 191:13 5 5 (2) 168:5;169:9 5,000 (2) 121:24,25	70s (1) 101:1 75 (2) 124:14;125:7 8 8,000 (1) 20:23 80 (2) 135:25;244:8
15 (12) 27:5;55:6;59:18; 104:5;157:4;170:23; 171:20,23;172:9; 206:15;229:15;233:6 15,000 (2) 122:8,13 15-day (9) 170:17,22;171:4; 232:4,7,22,25;233:4,	102:18;221:14; 222:19 2019 (8) 8:12;10:6;14:11; 123:3,10;165:24; 216:8;227:5 2020 (1) 184:23 2021 (3) 184:22;185:4; 227:10	128:4;133:11,12; 214:15 23 (1) 122:25 23rd (1) 50:19 24 (1) 129:18 24-year-old (1) 213:21 25 (6)	57:3 49 (1) 191:13 5 5 (2) 168:5;169:9 5,000 (2) 121:24,25 5,000-ish (1)	70s (1) 101:1 75 (2) 124:14;125:7 8 8,000 (1) 20:23 80 (2) 135:25;244:8 80,000 (1)
15 (12) 27:5;55:6;59:18; 104:5;157:4;170:23; 171:20,23;172:9; 206:15;229:15;233:6 15,000 (2) 122:8,13 15-day (9) 170:17,22;171:4; 232:4,7,22,25;233:4, 18	102:18;221:14; 222:19 2019 (8) 8:12;10:6;14:11; 123:3,10;165:24; 216:8;227:5 2020 (1) 184:23 2021 (3) 184:22;185:4; 227:10 2022 (4)	128:4;133:11,12; 214:15 23 (1) 122:25 23rd (1) 50:19 24 (1) 129:18 24-year-old (1) 213:21 25 (6) 103:22;125:5;	57:3 49 (1) 191:13 5 5 (2) 168:5;169:9 5,000 (2) 121:24,25 5,000-ish (1) 122:4	70s (1) 101:1 75 (2) 124:14;125:7 8 8,000 (1) 20:23 80 (2) 135:25;244:8 80,000 (1) 155:18
15 (12) 27:5;55:6;59:18; 104:5;157:4;170:23; 171:20,23;172:9; 206:15;229:15;233:6 15,000 (2) 122:8,13 15-day (9) 170:17,22;171:4; 232:4,7,22,25;233:4, 18 170 (1)	102:18;221:14; 222:19 2019 (8) 8:12;10:6;14:11; 123:3,10;165:24; 216:8;227:5 2020 (1) 184:23 2021 (3) 184:22;185:4; 227:10 2022 (4) 72:15;73:15;94:2;	128:4;133:11,12; 214:15 23 (1) 122:25 23rd (1) 50:19 24 (1) 129:18 24-year-old (1) 213:21 25 (6) 103:22;125:5; 131:2,2;156:14;189:2	57:3 49 (1) 191:13 5 5 (2) 168:5;169:9 5,000 (2) 121:24,25 5,000-ish (1) 122:4 5.0 (1)	70s (1) 101:1 75 (2) 124:14;125:7 8 8,000 (1) 20:23 80 (2) 135:25;244:8 80,000 (1) 155:18 80s (4)
15 (12) 27:5;55:6;59:18; 104:5;157:4;170:23; 171:20,23;172:9; 206:15;229:15;233:6 15,000 (2) 122:8,13 15-day (9) 170:17,22;171:4; 232:4,7,22,25;233:4, 18 170 (1) 151:19	102:18;221:14; 222:19 2019 (8) 8:12;10:6;14:11; 123:3,10;165:24; 216:8;227:5 2020 (1) 184:23 2021 (3) 184:22;185:4; 227:10 2022 (4) 72:15;73:15;94:2; 133:25	128:4;133:11,12; 214:15 23 (1) 122:25 23rd (1) 50:19 24 (1) 129:18 24-year-old (1) 213:21 25 (6) 103:22;125:5; 131:2,2;156:14;189:2 250 (1)	57:3 49 (1) 191:13 5 5 (2) 168:5;169:9 5,000 (2) 121:24,25 5,000-ish (1) 122:4 5.0 (1) 186:1	70s (1) 101:1 75 (2) 124:14;125:7 8 8,000 (1) 20:23 80 (2) 135:25;244:8 80,000 (1) 155:18 80s (4) 27:15;100:25;
15 (12) 27:5;55:6;59:18; 104:5;157:4;170:23; 171:20,23;172:9; 206:15;229:15;233:6 15,000 (2) 122:8,13 15-day (9) 170:17,22;171:4; 232:4,7,22,25;233:4, 18 170 (1) 151:19 18 (2)	102:18;221:14; 222:19 2019 (8) 8:12;10:6;14:11; 123:3,10;165:24; 216:8;227:5 2020 (1) 184:23 2021 (3) 184:22;185:4; 227:10 2022 (4) 72:15;73:15;94:2; 133:25 2023 (1)	128:4;133:11,12; 214:15 23 (1) 122:25 23rd (1) 50:19 24 (1) 129:18 24-year-old (1) 213:21 25 (6) 103:22;125:5; 131:2,2;156:14;189:2 250 (1) 126:6	57:3 49 (1) 191:13 5 5 (2) 168:5;169:9 5,000 (2) 121:24,25 5,000-ish (1) 122:4 5.0 (1) 186:1 5:51 (1)	70s (1) 101:1 75 (2) 124:14;125:7 8 8,000 (1) 20:23 80 (2) 135:25;244:8 80,000 (1) 155:18 80s (4)
15 (12) 27:5;55:6;59:18; 104:5;157:4;170:23; 171:20,23;172:9; 206:15;229:15;233:6 15,000 (2) 122:8,13 15-day (9) 170:17,22;171:4; 232:4,7,22,25;233:4, 18 170 (1) 151:19 18 (2) 103:25;154:6	102:18;221:14; 222:19 2019 (8) 8:12;10:6;14:11; 123:3,10;165:24; 216:8;227:5 2020 (1) 184:23 2021 (3) 184:22;185:4; 227:10 2022 (4) 72:15;73:15;94:2; 133:25 2023 (1) 185:11	128:4;133:11,12; 214:15 23 (1) 122:25 23rd (1) 50:19 24 (1) 129:18 24-year-old (1) 213:21 25 (6) 103:22;125:5; 131:2,2;156:14;189:2 250 (1)	57:3 49 (1) 191:13 5 5 (2) 168:5;169:9 5,000 (2) 121:24,25 5,000-ish (1) 122:4 5.0 (1) 186:1 5:51 (1) 254:5	70s (1) 101:1 75 (2) 124:14;125:7 8 8,000 (1) 20:23 80 (2) 135:25;244:8 80,000 (1) 155:18 80s (4) 27:15;100:25; 113:10;247:6
15 (12) 27:5;55:6;59:18; 104:5;157:4;170:23; 171:20,23;172:9; 206:15;229:15;233:6 15,000 (2) 122:8,13 15-day (9) 170:17,22;171:4; 232:4,7,22,25;233:4, 18 170 (1) 151:19 18 (2)	102:18;221:14; 222:19 2019 (8) 8:12;10:6;14:11; 123:3,10;165:24; 216:8;227:5 2020 (1) 184:23 2021 (3) 184:22;185:4; 227:10 2022 (4) 72:15;73:15;94:2; 133:25 2023 (1) 185:11 2024 (4)	128:4;133:11,12; 214:15 23 (1) 122:25 23rd (1) 50:19 24 (1) 129:18 24-year-old (1) 213:21 25 (6) 103:22;125:5; 131:2,2;156:14;189:2 250 (1) 126:6 26th (1) 130:8	57:3 49 (1) 191:13 5 5 (2) 168:5;169:9 5,000 (2) 121:24,25 5,000-ish (1) 122:4 5.0 (1) 186:1 5:51 (1) 254:5 50 (5)	70s (1) 101:1 75 (2) 124:14;125:7 8 8,000 (1) 20:23 80 (2) 135:25;244:8 80,000 (1) 155:18 80s (4) 27:15;100:25;
15 (12) 27:5;55:6;59:18; 104:5;157:4;170:23; 171:20,23;172:9; 206:15;229:15;233:6 15,000 (2) 122:8,13 15-day (9) 170:17,22;171:4; 232:4,7,22,25;233:4, 18 170 (1) 151:19 18 (2) 103:25;154:6 180,000 (1) 133:25	102:18;221:14; 222:19 2019 (8) 8:12;10:6;14:11; 123:3,10;165:24; 216:8;227:5 2020 (1) 184:23 2021 (3) 184:22;185:4; 227:10 2022 (4) 72:15;73:15;94:2; 133:25 2023 (1) 185:11	128:4;133:11,12; 214:15 23 (1) 122:25 23rd (1) 50:19 24 (1) 129:18 24-year-old (1) 213:21 25 (6) 103:22;125:5; 131:2,2;156:14;189:2 250 (1) 126:6 26th (1)	57:3 49 (1) 191:13 5 5 (2) 168:5;169:9 5,000 (2) 121:24,25 5,000-ish (1) 122:4 5.0 (1) 186:1 5:51 (1) 254:5 50 (5) 123:2;125:6;	70s (1) 101:1 75 (2) 124:14;125:7 8 8,000 (1) 20:23 80 (2) 135:25;244:8 80,000 (1) 155:18 80s (4) 27:15;100:25; 113:10;247:6 9
15 (12) 27:5;55:6;59:18; 104:5;157:4;170:23; 171:20,23;172:9; 206:15;229:15;233:6 15,000 (2) 122:8,13 15-day (9) 170:17,22;171:4; 232:4,7,22,25;233:4, 18 170 (1) 151:19 18 (2) 103:25;154:6 180,000 (1)	102:18;221:14; 222:19 2019 (8) 8:12;10:6;14:11; 123:3,10;165:24; 216:8;227:5 2020 (1) 184:22;185:4; 227:10 2022 (4) 72:15;73:15;94:2; 133:25 2023 (1) 185:11 2024 (4) 67:25;81:21;85:11;	128:4;133:11,12; 214:15 23 (1) 122:25 23rd (1) 50:19 24 (1) 129:18 24-year-old (1) 213:21 25 (6) 103:22;125:5; 131:2,2;156:14;189:2 250 (1) 126:6 26th (1) 130:8 275,603 (1) 58:7	57:3 49 (1) 191:13 5 5 (2) 168:5;169:9 5,000 (2) 121:24,25 5,000-ish (1) 122:4 5.0 (1) 186:1 5:51 (1) 254:5 50 (5) 123:2;125:6; 138:23;141:25;146:3	70s (1) 101:1 75 (2) 124:14;125:7 8 8,000 (1) 20:23 80 (2) 135:25;244:8 80,000 (1) 155:18 80s (4) 27:15;100:25; 113:10;247:6 9 9:00 (3)
15 (12) 27:5;55:6;59:18; 104:5;157:4;170:23; 171:20,23;172:9; 206:15;229:15;233:6 15,000 (2) 122:8,13 15-day (9) 170:17,22;171:4; 232:4,7,22,25;233:4, 18 170 (1) 151:19 18 (2) 103:25;154:6 180,000 (1) 133:25 180-day (1)	102:18;221:14; 222:19 2019 (8) 8:12;10:6;14:11; 123:3,10;165:24; 216:8;227:5 2020 (1) 184:23 2021 (3) 184:22;185:4; 227:10 2022 (4) 72:15;73:15;94:2; 133:25 2023 (1) 185:11 2024 (4) 67:25;81:21;85:11; 254:6	128:4;133:11,12; 214:15 23 (1) 122:25 23rd (1) 50:19 24 (1) 129:18 24-year-old (1) 213:21 25 (6) 103:22;125:5; 131:2,2;156:14;189:2 250 (1) 126:6 26th (1) 130:8 275,603 (1)	57:3 49 (1) 191:13 5 5 (2) 168:5;169:9 5,000 (2) 121:24,25 5,000-ish (1) 122:4 5.0 (1) 186:1 5:51 (1) 254:5 50 (5) 123:2;125:6;	70s (1) 101:1 75 (2) 124:14;125:7 8 8,000 (1) 20:23 80 (2) 135:25;244:8 80,000 (1) 155:18 80s (4) 27:15;100:25; 113:10;247:6 9 9:00 (3) 6:2;253:21;254:6
15 (12) 27:5;55:6;59:18; 104:5;157:4;170:23; 171:20,23;172:9; 206:15;229:15;233:6 15,000 (2) 122:8,13 15-day (9) 170:17,22;171:4; 232:4,7,22,25;233:4, 18 170 (1) 151:19 18 (2) 103:25;154:6 180,000 (1) 133:25 180-day (1) 246:16	102:18;221:14; 222:19 2019 (8) 8:12;10:6;14:11; 123:3,10;165:24; 216:8;227:5 2020 (1) 184:23 2021 (3) 184:22;185:4; 227:10 2022 (4) 72:15;73:15;94:2; 133:25 2023 (1) 185:11 2024 (4) 67:25;81:21;85:11; 254:6 2025 (2)	128:4;133:11,12; 214:15 23 (1) 122:25 23rd (1) 50:19 24 (1) 129:18 24-year-old (1) 213:21 25 (6) 103:22;125:5; 131:2,2;156:14;189:2 250 (1) 126:6 26th (1) 130:8 275,603 (1) 58:7	57:3 49 (1) 191:13 5 5 (2) 168:5;169:9 5,000 (2) 121:24,25 5,000-ish (1) 122:4 5.0 (1) 186:1 5:51 (1) 254:5 50 (5) 123:2;125:6; 138:23;141:25;146:3 5016 (1) 121:1	70s (1) 101:1 75 (2) 124:14;125:7 8 8,000 (1) 20:23 80 (2) 135:25;244:8 80,000 (1) 155:18 80s (4) 27:15;100:25; 113:10;247:6 9 9:00 (3)
15 (12) 27:5;55:6;59:18; 104:5;157:4;170:23; 171:20,23;172:9; 206:15;229:15;233:6 15,000 (2) 122:8,13 15-day (9) 170:17,22;171:4; 232:4,7,22,25;233:4, 18 170 (1) 151:19 18 (2) 103:25;154:6 180,000 (1) 133:25 180-day (1) 246:16 183 (1)	102:18;221:14; 222:19 2019 (8) 8:12;10:6;14:11; 123:3,10;165:24; 216:8;227:5 2020 (1) 184:23 2021 (3) 184:22;185:4; 227:10 2022 (4) 72:15;73:15;94:2; 133:25 2023 (1) 185:11 2024 (4) 67:25;81:21;85:11; 254:6 2025 (2) 93:13;124:14	128:4;133:11,12; 214:15 23 (1) 122:25 23rd (1) 50:19 24 (1) 129:18 24-year-old (1) 213:21 25 (6) 103:22;125:5; 131:2,2;156:14;189:2 250 (1) 126:6 26th (1) 130:8 275,603 (1) 58:7	57:3 49 (1) 191:13 5 5 (2) 168:5;169:9 5,000 (2) 121:24,25 5,000-ish (1) 122:4 5.0 (1) 186:1 5:51 (1) 254:5 50 (5) 123:2;125:6; 138:23;141:25;146:3 5016 (1)	70s (1) 101:1 75 (2) 124:14;125:7 8 8,000 (1) 20:23 80 (2) 135:25;244:8 80,000 (1) 155:18 80s (4) 27:15;100:25; 113:10;247:6 9 9:00 (3) 6:2;253:21;254:6 90 (1)

127:17;168:23; 247:7 97 (1)		
138:2 99 (3) 210:15;213:10;		
245:10		

UNITED STATES DEPARTMENT OF AGRICULTURE

NATIONAL ORGANIC PROGRAM

NATIONAL ORGANIC STANDARDS BOARD MEETING (NOSB)

SPRING 2024

Wednesday,

May 1, 2024 Hilton Milwaukee City Center - Arena Wright Ballroom 9:00 a.m., CST Day 5

National Organic Standards Board (NOSB) Members Kyla Smith, NOSB Chair Amy Bruch, NOSB Vice Chair (Virtual) Nate Lewis, NOSB Secretary Brian Caldwell Jerry D'Amore Carolyn Dimitri Kim Huseman Mindee Jeffery Allison Johnson Dilip Nandwani Nate Powell-Palm Logan Petrey (Virtual) Franklin Quarcoo Wood Turner Javier Zamora (absent)

USDA/National Organic Program Staff Dr. Jenny Tucker, NOP Deputy Administrator Erin Healy, Director, Standards Division, NOP Jared Clark, Acting Assistant Director, and

National List Manager, Standards Michelle Arsenault, Advisory Committee Specialist Andrea Holm, Agricultural Marketing Specialist, Standards Heather Kumar, NOSB Technical Support Staff Johanna Mirenda, Agricultural Marketing Specialist,

Standards

AGENDA Call to Order Compliance, Accreditation, & Certification Subcommittee (CACS) Amy Bruch, Chairperson 6 25 Discussion Document: Residue Testing for a Global Supply Chain Discussion Document: Climate Induced 49 Farming Risk and Crop Insurance Discussion Document: Organic Food System 68 Capacity and Constraints Proposal: Opportunities in Organic -9 Improving Support for Organic Transition Handling Subcommittee (HS) 74 Allison Johnson, Chairperson Proposal: Magnesium carbonate -75 petitioned Proposal: Magnesium carbonate hydroxide -75 petitioned Proposal: Rye pollen extracts - petitioned 85 2026 Handling Sunset Reviews: Acids (Citric and Lactic) 89 Calcium citrate, Potassium citrate 94 and Sodium citrate Enzymes 95 95 Microorganisms Yeast 95 Hydrogen peroxide 110 Peracetic acid/Peroxyacetic acid 110 Celery powder 114 Calcium chloride 126 L-Malic acid 129 Magnesium sulfate 134 Perlite 136 Potassium iodide 137 Pullulan 139 Activated charcoal 141 Ascorbic acid 142

Collagen gel Nutrient vitamins and minerals Ferrous sulfate Potassium phosphate Sodium acid pyrophosphate Tocopherols Fish oil Gelatin Orange pulp, dried Seaweeds, Pacific kombu and Wakame	144 148 158 159 160 162 168 170 174
Deferred Votes	181
NOSB work agendas/Materials update	185
Other business	187
Closing remarks	209
Adjourn	209

1 PROCEEDINGS 2 (Time: 9:00 a.m., CST) 3 4 CALL TO ORDER 5 CHAIR SMITH: It's powerful with this mic. Last day, woo-hoo. Thanks everybody for sticking with us. б 7 Welcome back, day three. We have two subcommittees to get 8 through today, so we are going to start with CACS and then 9 we will move to handling. We will sort of split handling at some point with a lunch break. So -- and then when we come 10 11 back, we'll finish up and then we will be done-ish. We'll 12 review the work agenda, talk about maybe a few things in new 13 business or additional items, and -- yeah. 14 So I'm going to turn it over to Amy. She's the chair of CACS. 15 COMPLIANCE, ACCREDITATION & CERTIFICATION 16 17 SUBCOMMITTEE (CACS) 18 VICE CHAIR BRUCH: Great. Thanks, Kyla. Good morning, everybody. Day three. What an exciting time we've 19 had the last couple days. And we'll keep the momentum going 20 21 here. The Board and, in particular, this subcommittee and 22 23 the people that serve on it are very special to me. I've been honored to chair this committee, the CACS Committee, 24 for three years. We do have big shoes to fill because three 25

of our super seniors -- Kim, Nate, and Jerry -- are going to be rotating off, sadly -- unless we can convince them to stay. But I wanted to make that plug. We have a lot of incredible voices on this committee, and it's been a pleasure to be a part of it.

Also, there's a lot of passion within our
subcommittee discussions. The path forward is not always
black and white. And especially when we're dealing with
complex topics that dive into practice standards,
regulations, and advising the secretary.

However, we know these topics are of critical importance to the community, and we charge ahead. Our work agenda items stem from the following categories: enforcement, USDA, and NLP's commitment to climate-smart agriculture, NLP's implementation of the transition to organic partnership program, and advising the secretary on other aspects of implementing OFPA.

From a macro viewpoint, these work agenda items are 18 19 very interconnected to the farm gate. I'm blown away by the level of participation from both experienced commoners and 20 21 new voices on our specific work agenda items. We had an impressive turnout by farmer stakeholders this last comment 22 23 round. We've come a long way from my first year. We only had a handful of farmer voices. And now we have farmer 24 voices contributing, I believe it was over 50 farmer voices, 25

both written and oral, this comment period. So, pretty impressive, the level of participation we're seeing from that group.

This is the pathway to make positive change for our organization, and we heard you loud and clear. One more additional plug that I'd love to slide in here is the need for representation in the form of an organic policy advisor. So please, please, please, community, help us out with elevating that need.

10 In addition to tackling four work agenda items this 11 past semester, we enjoyed some early cross-collaboration 12 partnership with PDS. Many of the members of CACS are also 13 on PDS. And topics, as Nate mentioned yesterday, exploring 14 more of what the Board can do with equity, and also, optimizing food tech support or conversations, we started in 15 16 CACS, but we're -- we thought, better suited, for the PDS 17 subcommittee to take on those initiatives.

So without further ado, let's dive into our agenda. 18 19 We'll have approximately 20 to 25 minutes per work agenda And we're going to mix up the order just a little 20 item. bit. So we did this in advance. I know Allison's ready, 21 22 but I'd love to start with opportunities and organics, 23 improving support for organic transition proposal. So we will be voting on this. And I'm going to turn over the mic 24 to Allison. Thank you. 25

PROPOSAL: OPPORTUNITIES IN ORGANIC - IMPROVING 1 2 SUPPORT FOR ORGANIC TRANSITION 3 Thanks so much, Amy, and to BOARD MEMBER JOHNSON: the rest of the subcommittee for being willing to take on 4 5 this important and timely topic. So we're about a year and a half into the \$300 million-dollar organic transition б initiative. And just as a reminder, the initiative has 7 8 three arms: it has farmer support through the Transition to Organic Partnerships program -- the TOPP network; it has 9 market development through the organic market developments 10 11 grants; and it has funding for transitioning farmers through 12 conservation programs and a crop insurance discount.

So this is our third NOSB meeting where we've had the opportunity to hear from people and organizations involved in TOPP. And I continue to be so impressed with how the people have stepped up, how much has been achieved in a really short period of time, and how thoughtfully this program has been adapted to every region and every state.

Dr. Tucker noted in her opening remarks that through TOPP, they've already identified 20,000 people interested in transitioning -- that's phenomenal, and so much potential for bringing acreage under organic management, creating job opportunities, and creating more access to organic food across the country.

25

So we have three and a half years to go of this

initial initiative. And the subcommittee's proposal is aimed at providing USDA with feedback on the organic transition initiative to date to maximize the benefits of public investments in organic transition and ensure that organic is relevant to a more diverse population.

We gathered -- excuse me. You'll notice that I've had more coffee than food this morning, so -- and I have to take some water breaks.

9 The proposal is directed -- oh, sorry. I'm jumping 10 Okay. We gathered feedback on the discussion ahead. 11 document last fall, and we built this proposal around four 12 main themes that emerged in the public comments. Supporting 13 economically viable opportunities in organic, reducing costs 14 of certification by offsetting costs that organic producers 15 bear, investing in relationships and trust building, and 16 diversifying and expanding the organic community.

17 The proposal is directed across USDA, not just toward NOP, because we really need all of the agencies' arms 18 working together to make the most of the opportunities in 19 front of us. So we hope that each agency that's working on 20 the program will be doing continuous self-reflection and 21 22 gathering feedback directly from the community, in addition 23 to taking a look at the feedback that we've gathered here. And, Amy, thanks for the plug. This is also a 24 function that the organic policy advisor can help with, if 25

that position were filled. And we hope it will be.

1

2 We got really positive feedback on the proposal 3 overall. Lots of support and appreciation to the Board for capturing the input that we got in the fall. We had a lot 4 5 of commenters note that we need relevant staffing and coordination across USDA. And, in particular, we heard a б lot about the inconsistent access to NRCS funding. 7 Places 8 where it's working well, it's been extremely valuable. 9 Farmers are getting really impactful amounts of money, but 10 some places it's not working at all.

11 So we heard from Dr. Tucker, a call to really do 12 some grassroots advocacy and outreach to our NRCS offices to help train them. And we also hope that USDA, in receiving 13 this feedback, will continue to work from TOPP down to make 14 sure that there's coordination. Costs of certification 15 16 remain a concern. A couple of specifics that came out in 17 public comments, an idea that small urban growers with many 18 sites could benefit from grower groups to make the costs 19 lower and more manageable. And also comments about restructuring cost share, so that growers don't have to pay 20 up front and then get reimbursed. 21

We had a request to name the farm bureau in Section 3 which talks about reaching more organizations generally, and working through organizations that producers trust. I don't think it makes sense to add specific names to the

1 document, but I did want to acknowledge that, and we could 2 think about whether we need clarifying language to make that 3 section more specific.

We also heard again about needing to reach farmers of color and the organizations that we trust. We heard from Kenya in the TOPP presentation that in Kentucky, black farmers aren't interested yet. And she's doing a lot of work there to build trust to leverage existing relationships to help meet farmers where they are and see what might be possible in the future.

11 There were a few conflicting or comments in tension 12 with each other -- several comments about the need for scale 13 and fairness, the need for consistent enforcement, and fairness in the marketplace. Sort of in tension with 14 15 comments about size thresholds, potentially prohibiting 16 participation in USDA programs. So scale and size continue 17 to be points where we need some nuance and thought about how to move forward and who's included and how we can structure 18 programs to make sure funding is meeting the greatest need 19 and creating opportunities that wouldn't otherwise be there. 20

We also had a couple comments about what's happening on the land during the three-year transition period. We had a request to test out of the three-year transition period, and we had a request to adopt definitions that would make sure that we're not just looking at

prohibited substances during the three-year transition, but it's also really about adopting a management system during that period.

4 We heard a little bit about the need for support 5 beyond the transition period. I think, Amy, you brought up what does TOPP look like in the 2.0 form. And we also heard б that it's harder for existing operations to access resources 7 8 through NRCS programs. And we had one commenter suggest 9 that the initial TOPP support be followed with three years 10 of on-farm training and education, so that we are setting 11 farmers up to continue to succeed and thrive in organic.

And then, finally, we got a few comments that would require congressional action. So it's outside the scope of this document that's directly addressing actions that USDA could take, but I'll just mention them for completeness. There was a lot of support for codifying the organic transition initiative and funding, staffing, and support for it in the long term.

There were comments around certification costs and raising the exemption cap to put organic in reach for more people. So I just want to acknowledge those and note that Congress is working on its fiscal year '25 budget right now, and the farm bill -- there was an announcement from House Agriculture this morning, and I think we'll see a few more announcements in the coming days. So stay in touch

with your members of Congress, if those issues are important to you, but they're outside the scope of what we'll be addressing here.

So to sum that all up, I think a big hurrah, for the most part, and also continued discussion and interest in seeing how this program grows over time. And I'd love to hear what you all think.

8 VICE CHAIR BRUCH: Thank you, Allison. Ι 9 appreciate your overview there. I'm actually going to turn 10 it over to Kyla, because she can read the room a lot better 11 than I can from my vantage point to facilitate Q and A. 12 So back to you, Kyla. 13 CHAIR SMITH: Thanks, Amy. Thanks, Allison. 14 Questions or comments for Allison? Go ahead,

15 Nate.

Allison, in your summary you 16 SECRETARY LEWIS: 17 mentioned something that was just so dear to my heart, and that is building consumer demand. And I was wondering if 18 19 you could speak a little bit more to -- if you felt like there was a theme or a through-line for some action that 20 21 folks were suggesting -- not necessarily we would do, but that could be done in order to build that demand? 22 23 BOARD MEMBER JOHNSON: It's a good question. It

came up a lot in the fall, less so in this round ofcomments. But, yeah, I think a really clear call for market

development in parallel with support for transition, so that
 we're not getting out of step in supply and demand.

3 I think the retailer toolkit is a great start. We 4 heard positive responses to that. I'll just note one little 5 piece that maybe is subtle in the proposal, but it mentions food and nutrition services. So the role of federal б 7 procurement as a stable market for organic didn't hear a lot of that this time, but that is included in the proposal as 8 another tool that we can use to start to grow demand and 9 secure markets for organic producers. 10

11

SECRETARY LEWIS: Thank you.

12 CHAIR SMITH: I'll make a comment. I mean, I feel 13 like -- yeah. A lot of great work has gone into this really 14 great funding and resources coming out of OTI and TOPP. And 15 so I think for me, yeah, we want to see this continue, 16 right, and just acknowledging that some of what's in here is 17 a little bit outside of NOP's control. And I know we talked 18 about that quite a bit in subcommittee. And so I think this 19 is useful for USDA to be aware of and just trying to like temper our expectations like a little bit for the program. 20 So, anyway, just -- yeah, all of that. 21

BOARD MEMBER JOHNSON: Yeah. Thanks for bringing that up, Kyla. And, you know, I constantly look back at the Organic Foods Production Act, and our job is to advise the secretary so the proposal is specifically directed to USDA

1 at large, with a number of sub agencies named. We know we
2 have the closest relationship to the NOP, and they're
3 currently overseeing the TOPP Program, so there's a really
4 great through-line there. But it's essential that all the
5 different arms of USDA are working together in coordination
6 to really maximize the benefits of the outcomes that we see.

And so we'll make sure in the cover sheet for the recommendation, assuming -- well, depending on how the vote goes -- can't assume anything -- that it's very clear who this is directed toward.

CHAIR SMITH: Thanks, Nate and Allison.

11

12 SECRETARY LEWIS: I think I have a question and a 13 comment, but can you talk a little bit more about the discussion around -- I see that land access has sort of 14 15 touched on, to some extent, in regards to succession 16 planning. I think that's really great. The -- any sort of 17 considerations about just farmland preservation in general and it's -- we need to -- you know, we can't be an organic 18 farm unless there's a farm to begin with. So I'm curious if 19 you have any thoughts on that. And then, just a comment on 20 21 the federal programs there.

BOARD MEMBER JOHNSON: Yeah, thanks, Nate. I think especially in reaching underserved communities, land access is number one. If you don't have land, you can't think about being an organic farmer --

whether it's access to a fair lease that's long term or affordable land that's under an easement.

3 So we scoped this proposal around the organic 4 transition issue because there's something specific to react 5 to, but I think, just as we're thinking about farm bureau and other not organic focused farming groups, we should be б thinking about what land organizations could be connected 7 8 into TOPP or how we could use maybe market development 9 grants to help someone access land that then has some 10 infrastructure on it or, you know, get creative about making 11 sure that's in scope because it's a huge barrier.

SECRETARY LEWIS: That's great. And then, I think just a comment I'd like to share on that is that my employer, Washington Farmland Trust, its previous name was the PCC Farmland Trust, which grew out of PCC markets in Seattle. And until 2015, we did have an affirmative organic certification requirement under -- on all of our conservation easements.

We decided to modify that, sort of at the advice of counsel, because tying a perpetual land encumbrance to a federal marketing program is a less than secure foundation. However, a number of our easements still contain that and land preservation, in general, is a good tool for securing the future for organic production.

25

The -- you know, reducing those sort of threats of

1 conversion I think can be really helpful in convincing 2 farmers to make the investment in organic and that 3 transition. So that's one comment.

And then, the other is just sort of acknowledging the state-by-state inconsistencies in service that we will encounter when working with NRCS. And I really, sort of, support the regional aspect of that because problems in Iowa are different than those in Washington, and having a centralized policy or program -- you just can't accommodate each regional -- each region specifically.

11 However, that also impacts success of programs in 12 So, you know, I'm just sort of naming it that areas. 13 there's advantages to the state-by-state approach and 14 there's also challenges. So I think we're always going to 15 be in this situation where EQIP is working great in 16 Washington for a certain activity, and not so great in 17 Nebraska for a certain activity. I don't know if we can be 18 that clearinghouse for communication or, you know, what-19 have-you, but it's an intriguing problem that we're still trying to wrestle with. NRCS's programs related to land use 20 preservation and the agricultural conservation easement 21 22 program which works great in Colorado, hasn't funded a 23 project in years in Washington State.

24 So it's a challenge, and so I'm just sort of 25 acknowledging that and appreciating that an OSB can be a 1 forum to air those challenges or differences in service and 2 perhaps summarize them so that there's some -- they could be 3 addressed.

4 CHAIR SMITH: Yeah. And I think that's a -- just a 5 good opportunity to recognize the kind of the magic of organic. If you had a program like this in any other б 7 sector, the idea that a bunch of competitors would come 8 together, work together, share information, develop mentorship between theoretically competitors, and just help 9 each other grow is incredible. 10

I know a lot of organizations involved in TOPP have put decades into thinking about transition and how we can better support farmers, and then, others are brand new to this. And so just the generosity of time and spirit is really incredible. And I think we're going to have to rely on that to get all the pieces of this program working together effectively.

18

Dilip, please go ahead.

BOARD MEMBER NANDWANI: Thanks, Allison, for yourreview on the TOPP. Really appreciate it.

And being part of TOPP from Midwest I would, you know -- just a comment, not a question, that in just a short amount of time, like I would say that about six to eight months, the Midwest -- I don't know a detail about the other regions -- but the Midwest, we heard on other day and being

part of that, I can vouch that the tremendous progress have 1 2 been made. We already heard on the other day. And the 3 beauty thing -- part of this is that a lot of partners -most of the partners, I would say, they are involved with 4 5 this -- not only the universities, they are partnering as an education and outreach events, but there are market б 7 developments. There is a -- they are working with NRCS, 8 getting so many advice, very closely with them. And other federal agencies also, you know, like rural development and 9 local rural organizations and state government and, you 10 11 know, state government as well.

So I would say that this is a good program we started, thanks to NOP. And it's good progress in just six months of time. So I would imagine in five years, we'll definitely have a very good progress. Thank you.

Thanks, Dilip. It's great 16 BOARD MEMBER JOHNSON: 17 to have TOPP participants on the Board, in addition to in 18 the community, to -- you know, vent all of this -- and get 19 feedback in real time. So I hope this proposal won't be the end of this kind of continued self-reflection, gathering 20 information; and that NOP and other agencies involved can 21 22 also reach out to the community directly and continue to get 23 that feedback as things move along.

24 Still got three and a half years, and a year and a 25 half in. There's a lot to applaud already. So I'm excited. CHAIR SMITH: Jerry, please go ahead.

1

BOARD MEMBER D'AMORE: Yes. If there's a segue to -- and I heard this just a moment ago of assigning value to the organic program, that I'd like to add to that. And so bear with me.

Over the last three or four years -- let me back б 7 Farming is tough. The business of farming is tough. up. 8 Farmland has always had value and is one of the things you really want to have in your back pocket in an investment 9 portfolio. And one of the things in the last three or four 10 11 years that has emerged in the business of agriculture and 12 the transfer of businesses between generations to 13 corporations -- and I don't want to talk about the value of 14 that, I just want to talk about the value of one thing -- is 15 that in the last three or four years the operations being 16 evaluated by financial institutions have a pecking list of 17 what they're looking for. And within the last five years on 18 top of that list is organic.

They will look at organic faster than they'll look at conventional. That doesn't mean they'll consummate things faster, but just that fact that the organic seal has become recognized by the financial community as a plate of value and points of consideration, I think, is quite phenomenal and something that, you know, we haven't talked about collectively here. Thank you.

BOARD MEMBER JOHNSON: Thanks, Jerry. It's a really good point, and I think we'll have a bit of discussion throughout the day around, sort of, how being organic helps or hinders access to finance access to market poportunities. So it's a really important thing to keep in mind.

7 And just to spread one other reflection that a lot 8 of the early work, in TOPP especially, has been these kind of intangibles -- relationship building, building this web 9 10 of communication that's hard to quantify. But I think 11 the -- every time we see the TOPP program participants 12 present, it's very clear that that's the groundwork that has 13 to be there for everything else to follow it. So numbers 14 and sort of like the soft stuff at the same time.

15 CHAIR SMITH: Amy, I saw your hand go up and now 16 it's down. Did you have a comment?

17 VICE CHAIR BRUCH: Oh, yeah. I just had a comment. Allison, thanks so much for elevating this topic. 18 19 I think the need for the feedback and being a clearinghouse was definitely there. TOPP -- it's really an incredible 20 investment into organics, and we're really blessed to be 21 22 able to have it. From a farmer point of view, I hope this 23 program does continue. I hope, you know, this feedback that was collected will be integrated in the best way possible 24 and really look at, you know, encouraging 2.0. 25

I know you mentioned that in your presentation --1 2 your -- kind of your overview, but I think it's necessary. 3 I know recruitment was the primary focus, but, you know, as 4 we heard kind of on the first day, we need to also look at 5 retention as well. So this is -- it's pretty incredible to think how б 7 it was launched and how quickly it was executed. And I 8 commend everybody a part of the process for making this 9 It really makes a difference. happen. 10 CHAIR SMITH: Okay. 11 VICE CHAIR BRUCH: All right. Kyla, are there any 12 other questions? 13 CHAIR SMITH: No. I don't see any questions or 14 comments, so we will move to the vote. The motion is to 15 accept the proposal on improving support for organic 16 transition. The proposal comes to the Board from 17 subcommittee with a motion by Allison and a second by Jerry. 18 And we will start the voting with Dilip. 19 BOARD MEMBER NANDWANI: Yes. CHAIR SMITH: Franklin? 20 BOARD MEMBER QUARCOO: Yes. 21 22 CHAIR SMITH: Nate Lewis? 23 SECRETARY LEWIS: Yes. CHAIR SMITH: Allison? 24 BOARD MEMBER JOHNSON: 25 Yes.

1	CHAIR SMITH: Brian?
2	BOARD MEMBER CALDWELL: Yes.
3	CHAIR SMITH: Jerry?
4	BOARD MEMBER D'AMORE: Yes.
5	CHAIR SMITH: Carolyn?
6	BOARD MEMBER DIMITRI: Yes.
7	CHAIR SMITH: Wood?
8	BOARD MEMBER TURNER: Yes.
9	CHAIR SMITH: Mindee?
10	BOARD MEMBER JEFFERY: Yes.
11	CHAIR SMITH: Logan?
12	BOARD MEMBER PETREY: Yes.
13	CHAIR SMITH: I did hear a quiet yes.
14	UNIDENTIFIED SPEAKER: (9:27:03) A quiet yes.
15	CHAIR SMITH: We got you Logan.
16	Amy?
17	VICE CHAIR BRUCH: Yes.
18	CHAIR SMITH: And the chair votes yes.
19	BOARD MEMBER HUSEMAN: Excuse me.
20	CHAIR SMITH: Oh, shoot. I before the vote, I
21	was like, I am not going to forget to go around the table,
22	and look what I just did. Kim? Sorry.
23	BOARD MEMBER HUSEMAN: Yes.
24	CHAIR SMITH: Nate?
25	BOARD MEMBER POWELL-PALM: Yes.

1 CHAIR SMITH: Okav. 2 SECRETARY LEWIS: Fourteen yes, one absent. The 3 motion carries. 4 CHAIR SMITH: Back to you, Amy. 5 DISCUSSION DOCUMENT: RESIDUE TESTING FOR A GLOBAL SUPPLY CHAIN б 7 VICE CHAIR BRUCH: Wonderful. Thank you, Allison. 8 Appreciate that. 9 Now we're going to move on to a discussion 10 document, residue testing for a global supply chain. So we 11 have some slides for this one. And I'll kick things off. 12 This is a really important topic to me, oversight and 13 enforcement. I believe this is the fifth different topic 14 that the committee has brought up in four years looking at 15 oversight and enforcement. We'll advance the slide and kind of dive into the overview and background. 16 17 I do want to emphasize that organic is a process 18 based standard. We heard that from the community. We 19 understand that. We know that. And we are looking at this as testing as a tool for compliance verification. 20 And then, 21 in this initial background I do want to appreciate all the conversation and the information and the rollout of SOE. 22 23 It's very impactful to our community. And I loved Dr. Tucker telling us about some of those early wins with 24 There's going to be several levels of impact, but it's 25 SOE.

awesome to hear of the initial success. And SOE provides that supply chain transparency. It's requiring brokers and importers, handlers, to have organic certificates, which is great. Everybody is getting above radar there. And then -and also import certificates are going to be hugely helpful to understand a lot more with clarity what's coming into our country.

8 However, testing provides the verification. So 9 it's kind of a twofold approach. We have transparency, and 10 then we need verification, and that's the part of continuous 11 improvement. You know, we're looking at this now. It's not 12 going to be implemented necessarily now. These things take 13 a little bit of time, but it's good to have the next thing 14 in the queue. And we feel really passionately -- and we 15 heard from the community that testing really needs to be looked at as that next piece. 16

17 We want to get more into the proactive mode, you -- we're a little bit playing catch up. Some of our 18 19 equivalency partners are more advanced on the testing route. We heard that through public comments. And then, also 20 21 through public comments we heard, we want a level playing 22 field. We heard that over and over again, not just from 23 farmers -- handlers as well, importers. We heard that from a lot of different voices. Level of playing field. 24 We love competition, let's just make sure everybody's playing by the 25

1 same rules here.

2	And it did this comment period, there was an
3	increased sense of urgency. So this is something that's
4	really important to dive into and unpackage so we can come
5	forward with the right proposals to the program.
6	We wanted to, this go-round, really focus on
7	building the house first. So focus on the or, sorry
8	building the foundation first for our house. So focus on
9	those foundational elements, testing protocols, and
10	procedures need to be rock solid.
11	Public comment stated that pesticide screening is a
12	valid and cost-effective way to test many low risk
13	operations, but we're looking at those high risk operations.
14	So sophistication, strategy, and savviness is necessary. We
15	need to build out those testing protocols to reflect more
16	instruction on testing for other vulnerabilities outside of
17	just pesticides.
18	And then, again, I wanted to highlight, we did hear
19	voices from all perspectives of the value chain farmers,
20	handlers, and importer inspectors, certifiers, banker,
21	investor farmer organizations, advocacy groups, certifiers,
22	inspectors, trade groups. So we did get a collection of
23	information about how we can advance this initiative, and

24 I'm really thankful for that.

25

As we advance to the next slide, this is

something -- kind of a flashback from day one. I loved 1 2 seeing this marketing information and the different pillars 3 that the organic community stands for. I just wanted to pose the question: Do we need a fifth pillar that says, 4 5 "Trusted and verified"? So something to think about. Do we want five pillars to our house. But I thought it was very б 7 impactful, the statements that are made here, but also 8 hearing from our consumers that trust in a verified system is important. 9

I'm going to kick it over to Nate now to summarize more of the public comments that we've received from our specific questions to stakeholders. And then, we'll wrap this up and open it up to discussion.

SECRETARY LEWIS: Thanks, Amy.

14

15 Before I jump into there, I did want to just provide a little bit of my own thoughts around SOE, in 16 17 particular. And my colleague, Kim, used the metaphor of an 18 ocean liner and an eggbeater. And my assumption is that 19 that was to convey the magnitude of what we're trying to achieve through SOE, but I fear that folks watching this 20 21 process may be concerned that that is an expression of futility, or that we -- you know, it's hard, I would imagine 22 23 -- and I'm not a shipping/receiving expert, but I don't think an eggbeater would be a great way to pilot one of 24 So I would like to offer the community a different 25 those.

1 metaphor, so that everyone who's listening and watching can 2 understand that we mean business and we think SOE is going 3 to shape and change the face of organic.

4 And that metaphor is that SOE is moving us from a 5 map and sextant to a GPS, in terms of how we're navigating this course. And forgive me for pushing this metaphor just б a little bit too far, but that testing is one of the 7 8 satellites by which this GPS system will be tracking our So I just wanted to offer that and, again, forgive 9 course. me in advance for abusing my microphone here and pushing 10 11 this metaphor too far.

But I really just wanted to communicate to those that are watching that SOE means business. It is a -- it appears to be already an effective tool at curbing some of the concerns we've seen. And I personally have a lot of faith in its ability to really change the marketplace.

17

(Applause)

18 SECRETARY LEWIS: So down to the granular details on residue testing. A topic I'm really, really excited 19 Amy did a great job teeing this up, that testing is 20 about. a tool for verifying compliance and validating systems for 21 22 preventing contamination of organic products. We have a suite of guidance documents at the -- in the program 23 handbook for certifiers to -- as guidance for certifiers 24 conducting residue sampling. And as part of SOE rule 25

rollout, we felt it was important to take a fresh look at these and update them with some additional detail and some additional context to help certifiers as they're evaluating compliance and verifying compliance to a broader and more global supply chain.

6 So first up is NOP 2610, which view the sampling 7 procedures. So these are the procedures by which you are 8 supposed to collect samples. This includes information like 9 how many pounds of wheat do you need to include in your 10 sample to get a good sample to a lab for testing? And how 11 do you document and do chain of custody sorts of things.

So the way we approached it is we have this suite of guidance documents and we asked some specific questions about each one and received comments. So these are a brief summary of what we heard and we'll then -- Amy and I'll sort of tag team a foreshadowing of where we think we're going to move this work.

18 In terms of sampling procedures for residue 19 testing, there was a lot of interest in more information and more procedures regarding the sampling of soil, water, 20 21 waste, seeds, plant tissue, et cetera. So we have good information around sampling of finished commodities. 22 We 23 need a little bit more information about some of these other sampling activities that certifiers may choose to conduct as 24 part of their review. 25

Consistent sampling protocols are needed for new test type -- new types of tests. So we are looking at tests certifiers can do of -- for prohibited substances that are not pesticides. And those require some familiarity and comfort with what types of tests are asking -- they should be asking the laboratory for, and whether or not there's a specific protocol related to those tests.

8 Laboratory selection criteria for pesticide residue 9 testing, we need to spell out a little bit more what 10 specific validated methods and acceptable laboratories 11 should be -- spell what -- sorry. We should spell out more 12 specifics about validated methods and acceptable 13 laboratories. So we need to make sure the labs that are 14 partnering with certifiers on providing those results can 15 and have methodologies that are approved within their accreditations to provide reliable results. 16

So as we move beyond the standard multiresidue pesticide screen and the standard herbicide screens, we need to make sure those laboratories are accredited to do those types of tests, and we have can have confidence in their results. And that sort of summarizes the second bullet there as well.

The document which I think may -- we may see the most changes is in the 2611-1, which is the list of prohibited pesticides for NOP residue testing. This is just

a list of prohibited pesticides. It's an incomplete list. 1 2 There's a lot of other pesticides not included on this list 3 which are prohibited in organic -- you know, of most -- the most glaring omission is glyphosate and dicamba. 4 These are 5 used all over the place. It's not on this list. We all know it's prohibited, but adding it to the list could be б valuable. 7

8 But we also got some really good feedback about 9 this document, perhaps, being transformed more into a 10 risk -- an evaluation of risk and a decision tree. So if 11 you're at this sort of operation and you observe such and 12 such a condition, what would be the most appropriate test to 13 take? And just adding a little bit more, sort of, thinking 14 around what types of tests are appropriate for which types 15 of scenarios and which types of inspection observations that are made, I think it could go a long way in helping 16 17 certifiers sharpening the point of that spear, in terms of their compliance verification. 18

So I think folks can anticipate some work from the subcommittee on rethinking that this particular guidance document, in terms of its usefulness for certifiers and targeting tests on specific operations at specific points in the supply chain.

And then, 2613, which is the responding to results from pesticide residue testing, this is where the rubber hits the road. So this is where you've taken a sample; you've gotten a result; it is positive or it's not; and you need to respond to it. This is where the compliance piece really starts.

5 And what we have now I think works really well for the multiresidue pesticide screens that we are accustomed to б 7 It is less clear when we start moving into things taking. 8 that aren't pesticides, like synthetic solvents which are equally prohibitive. There is no sort of gradient of 9 prohibition on these things. A synthetic solvent is just as 10 11 prohibited as glyphosate in an organic system. So detection of that is an indication that there's a prohibited substance 12 13 on the product, but we don't have an FDA action level or an 14 EPA tolerance because it's not a pesticide. And that's an 15 area -- that's just a gap in the information on this quidance document, which I think we will need to work to 16 17 fill that gap, so that certifiers have the confidence in 18 responding to results as they're starting to take on new types of sampling and new types of -- and receiving new 19 types of sample results. 20

21 So next steps in discussion, I think I sort of 22 covered a lot of this, but just in summary, we will likely 23 be proposing updates to NOP guidance on residue testing, 24 lists of prohibited substances, potentially for a decision 25 tree, sampling procedures and lab selection criteria,

responding to positive results. And a public comment that 1 2 we received about the regulatory requirement that ACAs 3 provide results of residue testing to the public, and a lack of clarity around that process, that may be an area we dig 4 5 in as well to provide some input there on how certifiers should determine when their investigation has ended and the б results are now made available to the public or -- there's 7 8 no sort of clarity, as we heard, around, do you submit a FOIA request? How do you interact with a certifier, if 9 you're a member of the public and want access to that that 10 11 information?

12 And then, the last piece was around testing of 13 input products. I think that's also an important part of 14 our residue sampling portfolio, but I want to make sure CACS takes chewable mouth bites on these big topics. 15 So I think this is on the punch list, but I don't want it to bog down 16 17 the work on testing of our certified organic agricultural products. But it is in -- it's in the parking lot, I would 18 19 say. And I think the group focus on testing is interested in making sure there's no fraud in inputs, making sure we 20 21 have reliable tests to determine when contamination of 22 compost, for example, has exceeded what -- you know, what 23 organic farmers are expecting. And, clearly, there's a lot to unpack there, including oversight of MROs, which is a 24 broad accreditation-related topic. 25

So I want to make sure folks understand here that we value and think those concerns are important, and that we're not ignoring them. We are simply trying to address them one step at a time.

5 Amy, do you want to add anything to the next steps 6 in discussion conversation?

VICE CHAIR BRUCH: You hit on guite a few of the 7 8 topics that were on my mind. I think the additional one is 9 just the risk piece. We are a risk-based system, and we 10 need to make sure that we're updating and keeping current 11 the definition of the new risks that our program is facing. And that was a common theme with a lot of contributions from 12 13 certifiers and inspectors, too. So we'd like to -- and, 14 yeah, we'd just like to dive into that further, whether 15 that's integrated in some of these guidance documents or another initiative. 16

But, Nate's exactly right. We want to make sure that we're advancing some of these initiatives at a pace that is possible and not necessarily just hold onto everything and present an omnibus approach that's got a million parts to it. So we'll look to kind of segment this off.

But, yeah. Thank you so much. And I'd like to open it up for further discussion, review of any other comments. And I'll turn it over to Kyla for that.

CHAIR SMITH: I see Wood, and then Brian.

1

BOARD MEMBER TURNER: Thanks, Nate. It was a great overview. And a lot of complexity, and it does concern me about all the things that you guys have flagged, in terms of sort of not making it overwhelming, in terms of how to get this done.

And I know a lot was made about the EU protocols 7 8 and rejecting US products from that side. And I'm curious 9 if there's any learning from that process that you've applied to some of this thinking. And if there's -- I mean, 10 11 it seems like to me, just simply speaking, it would be 12 interesting to just almost take whatever is happening from 13 that side of the pond and apply it from this side. And I'm 14 just curious if that's too simple or --

15 SECRETARY LEWIS: That's a great question. I'd also really be happy to hear Amy's thoughts on it, but I'll 16 17 I think, my understanding on the EU or, we should start. 18 say, it's -- you know, as I heard last night, there's no -really no such thing as Europe. There's, right, nation 19 states that group themselves into the EU, but the nation 20 states are definitely testing a lot of US products. And I 21 22 think they know where our weakness is, which is glyphosate 23 and Roundup. We are addicted to Roundup. It's used in every cropping system. It rains Roundup in Nate Powell-24 Palm's neck of the woods -- and probably other places in the 25

country. I'm just sort of partial to Montana myself. So
 I -- that really hurts.

3 So they know where our weakness is and they know 4 how to keep our products out of their markets. I think it's 5 really a WTO issue that we're dealing with on that. However, I think we can learn from the strategy because we б don't want -- they don't want contaminated product coming to 7 8 Europe. And I think the motivation is noble. And I think we can learn from that where we don't want contaminated 9 product or fraudulent product coming here. 10

11 And I think that's why you have heard Amy and I 12 both sort of continuously coming back to the synthetic 13 solvent test, which is something we don't do, we don't have a framework for, and is one of the best tools for 14 15 determining whether a seed meal has been produced using a 16 synthetic solvent or produced using an expeller press, which 17 would be how organic products were produced. So it's not exactly direct -- you know, I don't think we're trying to 18 19 start a trade war with this. I think we're trying to learn that we can identify where the weakness is and home in on 20 21 that.

The trade dispute, though, I really think is a WTO issue. And I would love to kind of, adjacent to the NOSB, kind of explore, how do you even take a nation state to a forum to discuss trade issues at the WTO.

So, you know, I'm from Washington State. If folks remember the WTO protest, it's sort of ironic that I'm now looking and saying, oh, maybe the WTO is offering us a solution here. But maybe it is. So, hopefully, that's helpful.

6

And, Amy, please go ahead, too.

7 VICE CHAIR RUCH: Yeah. No, that's a good call-out 8 on the glyphosate, Nate. I was going to actually pass it 9 over to Nate Powell-Palm, because on this topic and several 10 of our topics we divide and conquer. And Nate had some real 11 specific in-depth conversations with point people with the 12 EU. So I see we're panning to Nate. I'm going to have you 13 jump in here.

14 BOARD MEMBER POWELL-PALM: I think I would take a 15 starkly different view, Nate Lewis, on WTO, only in that 16 there's been -- I mean my state, and I think a lot of other 17 farmers have gotten whipped by not being able to sell our products into Europe. But I think I would take inspiration 18 19 saying, why can't we test just as much and make sure that products coming into America are as closely scrutinized as 20 21 those that we are exporting.

And so I don't think for now that we actually need to think of WTO, because I think that gets very complicated very fast, but rather, that we're just going to play catchup, and by enhancing the testing that we do, we'll be just

catching up; that there won't be anything that we really 1 2 need to have like a dispute over, necessarily. I would echo that. 3 VICE CHAIR BRUCH: Yeah. And 4 one thing to mention in the SOE, we do have now import 5 certificates. And that was also a thing that the EU or the member states were executing on is these import б 7 certificates. So I would just echo the fact that it's just 8 kind of more of a catch-up with some of the testing that's being conducted at this point in time. 9 10 We can look for benchmarking as much as possible, 11 but I think the idea is to put similar barriers that other 12 countries are having already. 13 CHAIR SMITH: Brian, please go ahead. 14 BOARD MEMBER CALDWELL: Thanks, especially to Amy for really having the foresight on this. And it's 15 16 incredibly timely -- and having the persistence. It's 17 really a good thing. 18 I want to get back to some basics. And I'm just 19 wondering, how do we envision the system? So who initiates -- I'm thinking, in particular, of imports coming 20 into the ports of entry. Who initiates the testing? 21 Who 22 oversees the testing? Who gets the results of the testing? 23 And who pays for the testing? I would love to have that kind of clear in my brain. So, thanks. 24 25 BOARD MEMBER POWELL-PALM: I'm going to jump in

there, if that's all right.

1

2

SECRETARY LEWIS: Yeah. Go for it, Nate.

BOARD MEMBER POWELL-PALM: I think that's going to be something we're going to determine. Right now it's -testing is -- the way we test in organic is a well-developed muscle. But as we've heard so many folks describe, it's probably not sufficient right now.

8 And so right now we've got the 5 percent testing rule where certifiers, by their own expense, are testing. 9 Ι 10 think as we envision a much more sweeping, that we would 11 have to re-envision where that's -- all of that burden I don't envision a world where we're saying, 12 falls. 13 "Certifiers, please give half your budget to testing at your 14 own expense." And, in a way -- and I think that there's a 15 question here, sort of philosophically, the folks who are 16 going to be benefiting the most from importing into our 17 market are the most solvent. And so I say that with all due 18 respect, these are not small farmers who are trying to bring 19 their goods into this country. They are well organized, high volume, high revenue organizations. 20

And so when we think about who is benefiting and who could share in this responsibility, I think there's some questions there for who is most suited for it.

24BOARD MEMBER CALDWELL: And thanks, Nate. And I25wonder if Jenny might chime in on that. I kind of asked a

1 question about that before, but any more ideas would be most 2 welcome.

3 ADMINISTRATOR TUCKER: Okay. So I mentioned on 4 Monday, you know, we are doing more testing at the program 5 directly based on, you know, what we perceive as risk related to both geography and commodity. So we're doing б more directly -- direct testing. Certifiers also do a lot 7 8 of testing. It's not just the 5 percent; they also do 9 separate testing to support investigations. If you go onto 10 our enforcement web page and look at settlement agreements 11 and look at decisions, you'll see actually there is a fair 12 amount of testing going on.

I would also say that those companies that Nate is 13 14 referring to, we are certainly aware that many of them are 15 doing their own testing as well. Right? They have brands 16 to protect, and they don't want anything -- any fraudulent 17 product on the market either. And, certainly, we know of 18 some very large buyers in the United States who have 19 diverted some of their imports into the conventional market because of testing results that they, themselves, took. 20

21 So there is work happening at all levels on 22 testing. And so it's not just an oversight -- of oversight 23 agencies that do this. I do -- these companies do have 24 brands to protect. It does sometimes feel like -- well, the 25 assumption is that everything's fraudulent, and then, you

1 know -- and I think we need to be careful with that because 2 there's a lot of legitimate imports, a lot of legitimate 3 trade, and these companies have their brands to protect as 4 well.

5 So I try and be realistic. I'm not trying to be 6 Pollyanna-ish here, but I think there's actually more 7 testing going on that is necessarily in the public sphere.

8 SECRETARY LEWIS: Brian, if I may just add some 9 thoughts to -- I think your question is great because 10 it's -- you can write everything you want on a piece of 11 paper, but you got to actually do the tests and do the 12 enforcement. I think there are a number of testing programs 13 that certifiers are not engaging in right now because of a 14 lack of guidance around them. So we're trying to fill that And that's one of the audiences that this -- these 15 qap. updates will be aimed at, but I think they'll also be aimed 16 17 at NOP's compliance and enforcement division, customs and 18 border protection, and really whomever is going out and 19 testing. So we want to make sure they know what we want them to test for and what to do, if and when they get a 20 21 result.

So I think there's a number of audiences for this work. First and foremost, the certifiers, because we know that testing is happening. The other potential testers are a little bit more opaque to us in the public, but I think 1 this could be helpful for them in doing their own -- their 2 testing as well.

3 BOARD MEMBER CALDWELL: Yeah. I'd say a lot of it 4 But I think that the, sort of the -- what's is opaque. 5 behind -- partially behind my question is, of course, if a big financial burden is on the certifiers, that gets б translated to the farmers, most -- almost all of whom are --7 8 well, for some certifiers are domestic producers and not 9 really kind of a player in this whole thing. So I would 10 just love to see ways that we can tap into some of the 11 private testing that is being done.

12 I would have to say that I think that some big 13 buyers enjoy a depressing push on the price, and so they 14 might not be so motivated to find out, but some of them are. 15 So that, in the collegial spirit of organic, maybe we can 16 work on that on accessing and sharing some of that 17 information, keeping it confidential within confines, but 18 helping with the effort. So, thanks very much. Reallv 19 appreciate it.

ADMINISTRATOR TUCKER: And I'm certainly not denying that there are bad actors out there. Right? The people who -- and I've often said over the years, and some people don't like it when I say it -- I want to keep saying it -- you choose who you buy from. Right? You choose who you buy from. 1 CHAIR SMITH: Okay. Logan, I had seen your hand up 2 before, then you put it down. So did you have a question or 3 comment?

BOARD MEMBER PETREY: Thank you for checking in.
CHAIR SMITH: Okay. Then I have Nate Powell-Palm,
then me, then I saw Amy.

BOARD MEMBER POWELL-PALM: I think in the heaviness 7 8 of all of this question about, you know, what does the 9 market look like and the citation of bad actors, I'm really enthused about this, just this work agenda item in general. 10 11 I think that there's a lot of confidence that we can claim 12 on behalf of consumers that we're able to describe better. 13 What does it look like? We are testing. We are verifying. 14 And that's something that I've heard so much, just when 15 folks want a trash organic. They don't even test. There's 16 no way to know. That this sort of gives us a little bit of 17 a leg up, if we're thinking about how can we do this better 18 and use this tool more effectively.

19 CHAIR SMITH: Thanks. Okay. I have three points, 20 I think. First, regarding the public access. So I just 21 want to point out that although it is not specified in 22 205.670 any more details around that, it is called out in 23 205.504(b)(5), which is the --

24SECRETARY LEWIS: I must have missed that.25CHAIR SMITH: -- the administrative policies and

procedures. So it does require that certifiers have procedures in place to provide to the public, upon request, the results of laboratory analyses for residues of pesticides and other prohibited substances conducted during the current and three preceding calendar years. So I just wanted to make sure that was on the public record.

Secondly, Nate, when you were talking about the prohibited pesticide list, 2611-1, and the fact that like glyphosate's not on there, I do believe most of those things are part of that multiscreen test, and glyphosate is not part of that multiscreen test. And so I don't know -- yeah, how we format that or, you know, or whatever.

13 If it was part of that, that would be phenomenal 14 because -- and I don't know that that's possible, just based 15 on laboratory methodologies and how they're testing. But if they were able to figure that out to have that be part of 16 17 that multiscreen test, I think that would be great because 18 currently certifiers and inspectors are having to take multiple samples, and to the next part of that, to have 19 that, you know, sort of matrix or whatever to provide more 20 information for surveyors and inspectors to -- for different 21 22 types of crops, time of year, what is typically sprayed in 23 the conventional system, would be really helpful so that, you know, we're not just having to pick and choose, oh, we 24 take this one sample and send it for glyphosate, and then 25

nothing shows up, but really something else is on there.
And we like -- anyway, and -- but the more samples you take,
the more cost you're -- like the cost increases. So,
anyway, all things to think about, but that's what I was -where my head was going.

And then, around third-party testing. б So certifiers are unable to take enforcement currently when we 7 8 receive -- based solely on that. Right? So if a third party, like the -- you know, our own certified company tests 9 and, you know, they can do -- take action, but if we get 10 11 that information provided to us, it might trigger an 12 investigation. But we can't take -- issue an adverse action 13 or something solely based on that test, if we didn't perform 14 it ourselves. So just something else to think about.

15 SECRETARY LEWIS: Yeah, thanks. I think I can shed 16 some light on at least the second topic right now, which is, 17 I think, the barrier to including glyphosate in the 18 multiresidue screen is science. I think that that just 19 doesn't work in the laboratory system, but I think that there is an interesting thought there about suggesting 20 working with laboratories who are willing to bundle and 21 22 discount testing or something like -- something to that 23 effect.

24 CHAIR SMITH: Yeah.
25 SECRETARY LEWIS: Yeah, because it's 300 bucks a

pop for your multiresidue screen and 300 bucks a pop for glyphosate. So if you're not sure what was sprayed, what are you going to spend your money on? But bundling or suggesting that could be something that might put a laboratory at a competitive advantage to working with certifiers. So point well taken.

7

CHAIR SMITH: Amy, I think you're up next.

8 VICE CHAIR BRUCH: Yeah. Thanks, Kyla, for 9 bringing the certifier point of view up front. I think 10 that's the thing when I look into this, we just need to work 11 together. There's a lot of numbers in the value chain there 12 saying we need assistance. We want to ensure a level 13 playing field. And I think figuring out the fees and the 14 methods, I think we can figure that out. I don't think that's going to be the bottleneck to execution here, but we 15 definitely need to have open conversations on how we can 16 17 execute this and make it as burden-free and pain-free as possible, just to get the needed information, because at the 18 19 end of the day, you know, these guidance documents, a lot of them were updated in 2011. I think there's a lot we can do 20 21 to provide more clarity and consistency and ease to execute.

I think it was really clear from certain people that are that are kind of in the weeds on some of these investigations that looking at pesticides is not always going to be where we find the fraud. So we need to broaden

our scope to these residues and we need to be strategic,
 instead of trying to throw the kitchen sink at something and
 not find what, you know, what the problem is.

And then, I want to also highlight a comment that that's been in our queue a couple times that does say AMS has a legal responsibility to ensure that NOP has adequate regulatory standards, enforcement guidelines, and residue testing procedures in place to implement a reasonable and effective monitoring system.

10 So I think that's the -- that's where I kind of end 11 We got some work to do to polish these guidance up. 12 documents up and make them relevant for the current 13 environment that we're playing with. And, again, I think 14 the voice of the farmer says, give us a playing field. 15 Let's just ensure all are playing by the same rules and 16 we'll be happy to compete. So that's kind of my final 17 statements on this. That's really important. I love to 18 hear all the feedback because we need everybody's voices in order to make the change that's lasting and necessary here. 19 So, thank you. 20

21 VICE CHAIR BRUCH: Any other final comments or 22 discussion pieces?

CHAIR SMITH: I don't see any more hands up. So I
think we can conclude this one and head on to the next.
DISCUSSION DOCUMENT: CLIMATE INDUCED FARMING RISK

AND CROP INSURANCE

1

2 VICE CHAIR BRUCH: Okay. All right. So we do --3 Next up is climate induced farming risk and crop let's see. 4 This one does have slides. It's a discussion insurance. 5 document as well. You know, to just kind of kick things off, this is a recent picture taken a few days ago from б Nebraska. And this just kind of articulates the environment 7 8 in which we're living in. We have extreme swings in 9 weather, and that's kind of the need for discussion on this topic. Much of the NOSB climate change discussion to date 10 11 has focused on positive benefits of the organic production 12 system and the resiliency that it brings, in terms of 13 climate change mitigation.

Let's discuss the impact of climate change on a farm's production risk, which is increasing and changing as climate-induced events are increasing in frequency and scale. The primary tool for addressing risk management is crop insurance. And I know we're evaluating other risk management tools, but the desire is to optimize the risk management tool of crop insurance in the short term.

And I'm going to have you advance slides, please. Over the past year we've made several advances on this front. Thanks to Carolyn's work that she's spearheaded on the research side of things, we have a good foundation in which we can launch some ideas from the community for

1 improvements. So really appreciate her work on that.

2 This slide here kind of articulates -- it's --3 articulate some of the improvements in the progress made. 4 This was thanks, in part, to having our fall meeting. 5 Francie Tolle, from risk management agency, give a presentation and state her commitment to improvement. б And some of these have been on the list for organic producers 7 8 for some time, but we can cross them off the list. And one notable one to mention is RMA allows enterprise units by 9 10 organic farming practice. So that was one we did hear in 11 public comments a year ago, and it's nice to have that advanced. And it's nice to also -- I mean, all of these are 12 13 important, but it was nice also to have the updates in good 14 farming practices and techniques, such as the roller crimper 15 rye with soybeans. So you can see there that's an improved 16 practice now. We don't need a written agreement to execute 17 that. So that's really positive.

18 As we go to the next slide, three priorities 19 have emerged, and that's what we're coalescing around as a community. And we heard some good feedback around these, 20 21 even from produce growers, especially on that first one, 22 quality factor consideration during loss adjustment. We 23 need organic specific quality metrics in loss adjusting. 24 Sometimes yields are above the trigger level. We've heard the trigger level -- that T yield level. We've heard a lot 25

of stories about that, but sometimes yields are above that trigger level. But due to a climatic event, the quality of the crop being grown isn't up to buyer standards. So we need those quality metrics to be very reflective of organic production and not just comparatively looking at feed grade conventional production.

The organic agent finder, we've made some 7 8 progress on this. RMA did launch for whole farm revenue 9 protection, kind of a seek and a find. Those that are 10 familiar writing that whole farm revenue protection policy 11 can be matched up with those interested in deploying that. 12 And we thought as a subcommittee that would be good to also 13 launch that finder technique for just organic agents in 14 There are organic agents that are specialized in qeneral. 15 providing organic producers crop insurance. And it's just kind of knowing the ins and outs -- there's a lot of 16 17 intricacies with crop insurance and having someone that's got experience is really important. So we'd love to 18 19 highlight that and make that happen for organic producers.

As well as accelerated adjuster visits. A lot of the collection of examples that Carolyn was receiving, it was on the adjuster side of things. Currently the policy is seven to 13 days post-climatic event for an adjuster to visit your field. I always say the difference between a good outcome in an organic field and a bad outcome is 36

hours. We need adjusters in our field sooner so we know what to do to mitigate the problems that the climate event delivered to us.

So weeds are growing at a pretty high rate and if we enter our fields in too early preadjuster visit, we actually can cause some challenges. So we need to work more closely and get specific organic adjusting standards for our producers.

9 Looking at the next slide is just some additional 10 items that the community in posts -- or in prior 11 conversations had highlighted. We're going to dive in a 12 little bit more on that. Improvement of T yields. We had 13 some good written and oral feedback on how we can improve T 14 yields, but some of these other ones are a lot of 15 conversation. We need feedback loops with some of the new 16 programs that have been launched, such as the Good Farming 17 Practices Handbook. We need a feedback loop to see, do we 18 need continual improvements or is that suiting the needs?

One other element to highlight on this list was the transition system plan or transition production plan. We did receive some feedback on that. And that's a new thing that's launched. And that's helpful, because RMA needs verification that a producer is in transition. And so the answer was to develop this transition producer plan or transition system plan. And it's just recently launched,

1 and there's some good learnings that we unpacked from public 2 comments on that as well.

So lots more to work on, but as we advance to the 3 4 next slide, in public comments for continuous improvement, 5 we really focused our efforts around the need for adequate coverage. T yield is something that is a signed yield when б 7 absence of production history exists. And this is a great 8 example. This cornfield on the right side if it was a conventional cornfield, the producer, after receiving about 9 10 40 percent damage would be receiving about \$443 an acre if 11 they deployed multiperil coverage at an 85 percent level.

If this field was a new transition producer, that insurance would be \$100 -- or just a little over \$100. And that's still deploying an 85 percent level at the multiperil production. So that that's kind of the quantification there, and we've heard that from public comments.

17 So what do we do about it? We've heard from a lot of written comments and oral comments that we need to 18 19 build transition yields faster and organic yields faster. And how do we do that? A potential compromise is, instead 20 of looking at altering the actual T yield, it would be just 21 22 to leverage that transition history and then apply that to 23 when you're organic for an accelerated viewpoint on your production capacity. 24

25

We also receive feedback from the community about

a buy-up coverage. And that's something instead of altering 1 2 the level of T yields that are out there, we could just 3 allow for producers to purchase more. The cost actually for 4 this type of coverage -- at least from a 65 percent to an 85 5 percent level, is pretty nominal compared to the benefit that it would provide. The question from the community is, б what would be the cost of the buy-up coverage? 7 There's 8 three major factors in determining a loss payout, and that's 9 looking at examining the T yields, examining the coverage 10 level, and examining the price.

We also talked to the community about using a percentage of their conventional APH for transition or their organic T yields, and that's more of a customized approach.

14 There were some other concerns that remained 15 about a high loss ratio. There's a few commenters that 16 talked about a high-loss ratio that organics are 17 experiencing versus the conventional counterparts. Some of 18 that was -- an attempt to mediate that was a reduction 19 across the board in everybody's T yields that happened four or five years ago. What happens, though, is there's so much 20 21 diversity within how producers are executing on an organic 22 scale, that maybe because of that diversity we do need a 23 customized approach at looking at prior history of when a producer was conventional, and then assess what their T 24 yield should be, whether their transition organic. So that 25

1 was another byproduct of the conversation.

Additional concerns that the community expressed was, again, on that transition plan, evaluating that. It's a new thing this year. And then, looking at contract pricing, right now there is a ceiling based on a conversion factor for conventional. And so the idea would potentially be opening that contract pricing up to provide additional coverage.

9 So I think at the end of the day producers were 10 looking at being able to satisfy adequate coverage. Whether 11 that's adjusting T yields, whether that's allowing for a buy 12 up on the coverage level, or whether that's looking at price 13 expansion, those are the three factors that come into 14 providing farmers with adequate coverage.

Is there one -- do we have one more slide? 15 Yeah. 16 So I wanted to open it up to Board discussion next and talk 17 about next steps. Pictures that have been displayed in this PowerPoint are real examples of climatic events that 18 19 although organic systems are very resilient when it comes to some of the intensity of the storms that we're experiencing, 20 21 it is tough to overcome some of these hail and extreme wind 22 events that farmers have experienced. So that's one reason 23 why we look to offer up more robust action items for uptake to make the coverage, at least for organic producers, more 24 equitable when, comparatively speaking, when you're looking 25

1 at conventional producers.

2 So next steps, the CACS committee has examined 3 where the current system is not helpful for farmers and we'll be planning on bringing a proposal with a finalized 4 5 list to create positive change. And also, just another call for requests, challenges, at least more examples we have for б 7 row crop producers. We also want to make sure that we're 8 reflecting the challenges for produce growers as well. Ι think the top three items from Slide 2 that discusses 9 specific quality adjustments for organic producers, that's 10 11 very applicable to the produce growers as well. 12 So with that -- it's a complicated subject, and 13 we've had lots of time to deliberate over the last year, but 14 I wanted to open it up for further discussion. 15 CHAIR SMITH: I have Nate Powell-Palm, then Wood. 16 BOARD MEMBER POWELL-PALM: I just wanted to push 17 back a little bit, Amy, on the line that, "It's a complicated subject." I think you've done just a fantastic 18 19 job bringing this home for why it matters to producers. And the number of producers, the breadth of producers that we've 20 21 heard from on crop insurance has just been fantastic. 22 Going back to the progress part of the document, 23 Number 3, could you tell us a little bit more why RMA allowing enterprise units by organic farming practice is 24 significant? 25

VICE CHAIR BRUCH: Yeah, absolutely. 1 That's a 2 good question. It was something that we heard time and time 3 Even in this current form of written comments, again. producers were still asking about it. So education is 4 5 needed to alert people that it is available -- talk to your agent about that. But the benefit there is sometimes when б 7 you're early in your transition process, you might have 8 conventional lands. You might be a parallel operation with 9 conventional status and transition. When folks are 10 deploying an enterprise-type approach to crop insurance, 11 they're aggregating all of their fields together under one 12 unit. So if you have transitional yields, that we all have 13 heard of are reduced with your conventional yield capacity 14 at a higher level, when it's all aggregated together, the 15 overall look of your coverage is a lot lower than what it 16 would be if you were able to separate out your conventional 17 production from your transition production.

So it's an ability for a producer that has parallel operations or parallel production to receive the highest level of coverage on each of their fields.

BOARD MEMBER POWELL-PALM: And sort of in a -for example, you would lots of times see farms when they transition create one LLC for their conventional operation and a different LLC, which for anyone who started a business, is just a lot of work. And so to be able to not

have to do that and having RMA allow for enterprise use by practice seems like a very farmer friendly move. It's just -- reducing the burden on the business of being an organic farmer. One of --

5 VICE CHAIR BRUCH: Absolutely. Thanks for 6 highlighting that workaround. That was the workaround that 7 folks had to do -- not because of a transparency issue. It 8 was really to mitigate the economic challenge with the 9 current policy.

10 BOARD MEMBER POWELL-PALM: One other -- Number 2 11 in the progress report, I have -- Nate Lewis got me on my 12 first fly into DC. And I heard so many farmers saying, "Why 13 is NRCS telling us to intercrop and to do all these 14 progressive agronomy techniques, while RMA is saying, 'If you dare do it, we'll take away your coverage?'" And so I 15 just feel like Number 2 is more astounding and more 16 17 fantastic than -- we have far and away not given enough credit or whooped it up enough for that. 18

And I was wondering if you could tell us, how do we get the message out about that? I feel like that could be a whole party, in and of itself -- maybe Portland.

VICE CHAIR BRUCH: Yeah, exactly. And, Andrew, could I have you maybe go backwards a couple slides, and then we can highlight that specific one for the community? Okay. Number 2, updated good farming practices.

Yeah, this is huge. It really is because the -- we had 1 2 several commenters about advancement of, you know, some of 3 these real cool practices that Erin Silva is using with a lot of no till-type farming scenarios for organic. 4 That's a 5 real adoption practice -- at least in my state, because we do have irrigation and we're able to mitigate some of the б 7 risks that others might have to deploy some of these good 8 farming practices. And they're highly adopted in my region about intercropping, and really trying to push them the 9 10 needle.

11 We, I think as organic farmers, we 12 learn we need to keep advancing and trying new techniques to 13 get a better outcome. And so having the recognition and the 14 reconciliation between NRCS and RMA is really important; and that, I think, is going to come out more if organic 15 16 producers are coupled with agents that understand organics. 17 I think that word is going to get out quicker. It's a very 18 nuanced thing in our community, and it is tough, as we 19 learned with kind of looking at 823. You don't always know what you don't know. So having folks connected with organic 20 experts, I think, is the best way to get the word out about 21 Number 2. 22 23 BOARD MEMBER POWELL-PALM: Thank you. CHAIR SMITH: 24 Wood? Thanks, Amy. 25 BOARD MEMBER TURNER: There's some

great work here and it seemed like a lot of slam dunk pathways here, just like, you know, a lot of -- not a lot of -- I just want to nod my head at all the recommendations or all the ideas that are been put forth in the document.

5 I'm curious -- I noticed that the document wasn't 6 entirely unanimous, in terms of the committee's view on it. 7 There was an abstention maybe. And I'm just curious if 8 that's a flag for any concern that I should have about 9 barriers to getting this done? Like when the proposal gets 10 adopted, what is the barrier to getting some of this put in 11 place? Can you dumb it down for me?

12 VICE CHAIR BRUCH: Yeah. And that's -- you 13 highlighted a great thing. You know, we are in the midst 14 of, you know, complex -- and I use the word "complex," even 15 though we have a clear pathway of what we can do. But where 16 our authority lies, we're able to work on this work agenda 17 item due to climate change. And similarly to Allison's document within the transition, the recommendations for 18 19 TOPP, we are not only communicating to NOP for execution on this. This is an interagency-type approach, and we need 20 21 assistance from RMA.

22 So this is kind of a full court press. We can 23 make the recommendation, but we also need the community to 24 help us get this over the finish line. So that was the 25 reflection of the abstention was just, what is our

jurisdiction for the actual recommendation? Should we be listing just challenges, or should we dive into solutions as well?

CHAIR SMITH: Nate?

4

5 Yeah. BOARD MEMBER POWELL-PALM: I was just going to pile on there, that I think from, you know, the б work that Allison has done, there is a gray line for, what 7 8 are we supposed to be doing on this Board? And I think that there's just very few other opportunities to have the entire 9 10 community tell us where the pain is and what we can improve. 11 And even if we don't have a material solution, or don't have 12 a Sunset to address it, there was on this committee, you 13 know, a slightly difference in philosophy that, should we 14 stick to our lane, or could we be a little bit more 15 expansive. And I'm definitely on team more expansive, because I think it's resulting in a lot of good work. 16

17 The thing I was waiting for Allison to get back 18 for is in the opportunities for improvement, Number 2, 19 building on our questions about NRCS and our problems that we're noting with the 823 roll-out, having a crop insurance 20 21 agent who knows organic is the difference between getting 22 coverage or not. And having -- and finding one of 23 those -- the only reason I found mind is because a buddy told me where to look. And the fact that that sort of 24 network is the only way to really tracking down means that 25

somebody who's not nearly as connected as NPP is going to
 have a much harder time.

3 And so we need to be figuring out how do we make 4 it obvious and easy for where we look. And so I think when 5 we think about equity, there's so much to this second opportunity for improvement that I would say, participation б 7 in risk management for everybody participating in TOPP, 8 everybody participating in organic, this should be the priority -- or a significant priority for how do we help 9 this move along quickly to make it a useful and accessible 10 11 opportunity.

BOARD MEMBER TURNER: I'm reeling from the thirdparty reference, but that's...

CHAIR SMITH: Carolyn?

14

BOARD MEMBER DIMITRI: I did that just forMichelle.

17 I abstained. And basically, there's like 18 philosophical differences on how to go about doing this kind 19 of work. And I recognize, as a researcher, like my approach is very different from people who sit as advocates in their 20 real world experience. But I think Mark Lipson raised the 21 22 really important point that was in the original document, 23 and that is that the loss ratio is close to two for organic policies. And the legislation that created crop insurance 24 said that it has to be one. It was to be -- like the whole 25

1 program has to pay for itself.

2	And so I kind of came at this from an approach
3	that this doesn't work for the risk management agency and it
4	doesn't work for organic farmers. So I think like from that
5	sense, for us to be saying these are the ways you need to
6	change, given that they have these other institutional
7	constraints that we're not even really acknowledging as we
8	go ahead.
9	And then, my other thought is, initially, like
10	for the last time this discussion document came around, we
11	didn't really get very many suggestions from farmers that
12	were not green farmers. And I have a concern about us
13	representing all organic farmers, just not only organic
14	green farmers. So, anyway, that's kind of the back story
15	there.
16	CHAIR SMITH: Nate Lewis?
17	SECRETARY LEWIS: NPP, your or your
18	you've got my mind churning about your search for an agent.
19	And is there like, you know, I can go online and find a
20	doctor in a specialty, based on my health insurance
21	database. Is there anything like that for crop insurance
22	agents?
23	BOARD MEMBER POWELL-PALM: For crop insurance
24	agents, yes.
25	SECRETARY LEWIS: For

1 BOARD MEMBER POWELL-PALM: For organic crop 2 insurance agents --SECRETARY LEWIS: Well, that's why I just 3 4 wondered if there was a way to, like, add a little organic 5 criteria to that filter, you know. BOARD MEMBER POWELL-PALM: Absolutely. б 7 SECRETARY LEWIS: I don't know. I -- just got 8 my mind going. 9 I think BOARD MEMBER POWELL-PALM: Yeah. 10 there totally is. I think in some counties I've seen folks, 11 especially in, say, Vernon County or Dane County in 12 Wisconsin where you're going to have more organic literacy 13 in general. You'll have folks disclosing that, themselves, 14 voluntarily. 15 Whether or not they're any good is sort of a different question. And so even though they say, "Yeah, I 16 17 can help you with organic," we want the folks who know --18 who know how to find the right policies for organic. 19 And I think it's a greater discussion for the community and RMA how they work together to try to both say, 20 21 if you're interested in organic, let's train you. And if 22 you're good at organic, let's identify you. 23 VICE CHAIR BRUCH: And I will add there's precedents for that right now with the agent finder for 24 whole farm revenue protection. So it is something that has 25

been executed as of this year. You go to the RMA website and you can find an agent that specializes in whole farm. So the request for that, which is pretty minor, is just those that are comfortable writing organic crop insurance can register, and those that want to find them can just go to the website, similar to how they deployed the whole farm revenue protection.

8 And, Carolyn, I think you made a great point This needs to work for all. It's not going to work 9 there. 10 if it's only for RMA or only for organic producers. So I 11 think the need for these open conversations is really 12 important. There's a lot of working groups currently with 13 farmer organizations on crop insurance. And I really 14 appreciate tapping into that information. But at the end of 15 the day, advancements need to be made so they can be 16 lasting.

17 So that loss ratio, I think you had mentioned, 18 Carolyn, when they made the change to T yields for organic 19 producers, it did help the loss ratio -- not to the point that RMA was targeting, but I think it penalized producers 20 21 because it was a one-broad stroke against the whole 22 community versus looking at some of the nuances and 23 customized approach that could maybe give a greater benefit or greater lift to a farmer, and still maybe get at what RMA 24 is trying to do. 25

But those are great points. I'm glad you were
 able to elevate those, Carolyn.

CHAIR SMITH: Logan, go ahead.

3

25

4 BOARD MEMBER PETREY: Thank you. So I 5 hesitate to say a lot on crop insurance, so I don't know a lot about it. And I don't have experience with it really. б As an organic vegetable -- I mean, it's not -- it's not -- I 7 8 mean, I quess we're discussing -- it's not a really wellwritten thing. And I will say that to compare the grain and 9 the vegetable, I have the same issues, as far as the T 10 11 yields, like you're talking about, how long it takes to 12 gather an average yield.

Also, as the growers mentioned, you know, rotation is really important and it's necessary in organic farming, where it's not in conventional. So it does take so long to get your average T yield to be good. So those are the same problems that grain and vegetable farmers will have.

Another problems that are the same is, agents around not knowing how to -- you know, not knowing the policies really well. So I would say that those are in common. And so the document can -- or this discussion document does kind of conquer that as well for vegetable growers.

I wish I knew more about it to say, you know,

1 what it doesn't cover for the vegetable, but I know that 2 those two things will be the same. 3 VICE CHAIR BRUCH: Thank you, Logan. 4 Appreciate that. And that I think if we go back one slide, 5 I think that on the -- let's see. Oh, sorry. The -advance two slides -- yeah, one more. This, I think -б 7 sorry, back one. Sorry. 8 This -- these three concepts, I do believe are 9 cross-functional, meaning, they do apply to produce growers, as well as row crop producers. And we did hear from one 10 11 produce group that mentioned the benefits of the quality 12 factor consideration, that that's really important to their 13 industry. 14 Are there any more hands? 15 CHAIR SMITH: I think Nate Powell-Palm had a 16 final thought, and then we can probably wrap it up and move 17 on. 18 VICE CHAIR BRUCH: Great. BOARD MEMBER POWELL-PALM: Just building off 19 of Carolyn's point -- I wish I was better at making 20 analogies, but grain already has, you know, a boat in the 21 22 water, and it's moving. And so figuring out how can we 23 augment those folks who already have infrastructure and a system working, I think, is a goal of this document. 24 And so when we look to public comments, I was 25

both heartened and, I think it's really something we have to 1 2 focus on, listening to the tomato grower from Vermont say, 3 "I've never even thought about crop insurance." In my valley, we had a really large hailstorm last June, and it 4 5 wiped out everything that the farmer had been working to produce leading up to the farmer's market season. б So probably like 80 or \$90,000 for a small farm worth of goods. 7 8 And they had to resort to a GoFundMe, which was very 9 successful, but very depressing, I think, that there wasn't some program out there ready to step in. 10 11 And so as I think again about recruiting new 12 Board members, I really hope that we can get produce growers 13 on this Board, or at least into public comments who have 14 ideas for what can we start to do to make better insurance progress for produce growers. 15 16 CHAIR SMITH: Thanks, Nate. 17 Back to you, Amy. 18 DISCUSSION DOCUMENT: ORGANIC FOOD SYSTEM CAPACITY AND CONSTRAINTS 19 VICE CHAIR BRUCH: Yeah. Thanks for the final 20 plug about upcoming Board members. Appreciate that. 21 Thanks for the discussion here. We will 22 23 continue on with our last discussion document. So next up is organic food system capacity and constraints. 24 The CACs Subcommittee's goal is to build on our previous work on 25

climate change that focused on addressing/managing on-farm 1 2 risk. So I'm going to turn this over to Nate Powell-Palm to 3 walk us through this document. 4 BOARD MEMBER POWELL-PALM: Thanks, Amy. 5 We heard -- we've been hearing so much from public commenters and the community in general, especially б as we talked about TOPP, looking at how are we setting 7 8 farmers up to transition into a market that works, and really studying, what are those weak points. 9 10 When we hear from groups who have been in this 11 space a really long time, very similar and consistent talking points are voiced -- you know, seed capacity, 12 13 capacity and access to land. And we're looking at, can we 14 get some data behind that? Is there a way to actually look 15 at what is stopping all organic grain being grown in this country. And we're looking at an integrity piece, but 16 17 there's also a logistics piece that my colleague, Kim, has so articulately voiced over and over again. How do we 18 identify what's really keeping that grain from coming to 19 market? What's really keeping growers from being able to 20 access wholesale opportunities? 21 22 And as a group, questions to stakeholders sort 23 of follow a similar theme that we've heard throughout the

24 last few weeks. Are we able to retain existing producers? 25 If not, why? Why are folks leaving this market? If we're

looking at existing producers, what's stopping them from 1 2 expanding, or are they contracting their acres? 3 And so within an opportunity like TOPP and 4 thinking about how this is just, hopefully, not once in a 5 lifetime, but maybe once in a lifetime, how do we make sure we don't miss this opportunity to really affect the most б change possible? And having a better and clearer 7 8 understanding of what the market is and how we can improve 9 it is the goal of this discussion document. 10 Any questions? 11 I see Amy. 12 CHAIR SMITH: Oh, go ahead, Amy. 13 VICE CHAIR BRUCH: Oh, that's okay, Kyla. Is 14 there something else --15 No, ma'am. CHAIR SMITH: 16 VICE CHAIR BRUCH: Okay. All right. Yeah. Т 17 think this document, along with the others, are very I think there's a lot of interconnectedness to 18 important. 19 the documents, again, that we have presented for CACS. Ι especially want to reflect amongst a farmer's testimony in 20 21 the in-person comments that, bless his heart, he did have 22 the entrepreneurial spirit to put in infrastructure to get 23 him a little bit further down the value chain and, unfortunately, that wasn't enough. And he said, after a 24 short time, he actually had to close that facility. 25

1 So I think it really is not looking at one 2 piece in particular; we need to have a macro view as to how 3 we build this out. It's not always, "If you build it, they 4 will come." We need some extra help, again, with, kind of, 5 playing by the same rules, looking at where our challenges 6 lie, getting the right risk management support, and then, 7 really tackling these markets.

8 There's opportunity here, but it -- I feel 9 like it needs to be more strategically thought out versus 10 just kind of a scatter pot deployment. So I'm not sure 11 who's in that position to look at things from a macro point 12 of view, but I really think that's necessary. And I think 13 this document is going to, hopefully, open up those types of 14 conversations.

CHAIR SMITH: Go ahead, Nate Lewis.

16 SECRETARY LEWIS: One element, which I just 17 want to share that I think is important to include here, is 18 the people element of developing markets and not the 19 consumer, but sort of the thought leader component.

15

I understand, you know, there's a lot of factors that go into a robust marketplace, but one of them is the cultivation of and, sort of, dissemination of good information and enthusiasm and support, and that sort of mentor-mentee relationship that TOPP is really centering. And I'd just like to see that. It's -- you know, it's messy

because it deals with people, I realize, but I still think 1 2 we should lean into that because it's -- you know, you can 3 have all the railcars in the world, but if people don't want to -- or the coffeeshop conversation is still awkward 4 5 because you've gone organic, that can be a barrier that we don't see. б 7 CHAIR SMITH: I think that I don't see any 8 other -- oh, wait, Allison has a comment. 9 BOARD MEMBER JOHNSON: Sorry. I'm less vocal than I would be because the Senate Agriculture Committee 10 11 just announced a big farm bill framework that includes a lot 12 for organic, including a lot that's relevant here. 13 So encourage everyone to take a look at it, 14 react, and we'll still have opportunities to connect up this work with what's happening in Congress. But sorry for my 15 16 relative quietness -- or maybe you're welcome. 17 VICE CHAIR BRUCH: Excellent views, Allison. 18 Thank you for sharing that. CHAIR SMITH: 19 Back to you, Amy. VICE CHAIR BRUCH: Any other comments? 20 Nate, do you have any other final thoughts on this? 21 22 BOARD MEMBER POWELL-PALM: Oh, I would just --23 I really appreciate what Nate Lewis said, and would echo that we need a joyful, an aggressive, a human-centered 24 25 approach to bragging on how awesome this opportunity is.

And I think that's been a challenge that we have been addressing for several years now, trying to get our ducks in a row for how do we message about this. But when I look at this room and all the awesome storied organic growers in this room, folks in public comments, we need to, as a community, be trying to get those folks who just normally don't talk, to start piping up.

8 My favorite line is -- and it doesn't always 9 apply, but, "Those who talk don't know, and those who know 10 don't talk." And we need to get the folks who know to talk 11 and get out there and celebrate.

12 So, thanks, Nate Lewis. Thanks, Amy. 13 VICE CHAIR BRUCH: Thank you. Thanks to the 14 subcommittee. And I will turn it over to Kyla. 15 CHAIR SMITH: Okay. Great. We are going to take a break. Let's come back at 10:50. 16 17 RECESS FROM 10:39 A.M. TO 10:51 A.M. 18 CHAIR SMITH: Okay, everybody. We're going to 19 get started. 20 Okay. We are moving to Handling Subcommittee.

21 And I am going to pass it over to Allison. She is the chair 22 of the Handling Subcommittee.

23
24 HANDLING SUBCOMMITTEE
25 BOARD MEMBER JOHNSON: Thank you. I think I

stole my own audience here by telling everyone to go look at 1 2 the news. But we have a very packed agenda for handling 3 this year. We've been busy. We have a long list of Sunsets for 2026, and we're already preparing to do another long 4 5 list for the next cycle for 2027. So really appreciate all the Handling Subcommittee members and how much time and б 7 diligence you've put into this. It's a lot to get through and we couldn't do it without everyone's commitment and 8 9 dedication.

We have a couple of petitioned substances that will be voted on today. And I also want to flag that we have a couple more ahead. We're looking at a petition for ethylene. It's currently listed for post-harvest ripening of tropical fruit and de-greening citrus, and the petition is for an annotation change to allow use in potato and onion storage.

And then we also have a petition on another listed material, potassium phosphate, that's currently listed for use in products labeled, "Made with organic." And the petition is asking us to remove that limitation, so it could be used in products labeled organic as well. So more from us in the future on those materials.

Let me get my agenda and queue keeper out here. So we rearranged the agenda after the packets were assembled. So we're going to be going down this new written

list here. So if you're following along in the meeting 1 2 packet, we're not going to be going in that order, but we'll 3 give everyone a minute to flip to the right material as we go along. 4 5 So we're going to kick off with three proposals on petition materials. Two of them are very б 7 similar, so we're going to present them together. And I'll 8 kick it over to Kyla for magnesium carbonate and magnesium 9 carbonate hydroxide. 10 PROPOSALS: MAGNESIUM CARBONATE, MAGNESIUM 11 CARBONATE HYDROXIDE - PETITIONED 12 CHAIR SMITH: Thanks, Allison. 13 So in this fall, there were two Yes. 14 discussion documents separated, and this round of the 15 proposal I decided to just combine them because it --16 they're very interchangeable materials and I thought I could 17 save you guys some reading if I just did a combo. So we 18 will take the votes separately, as noted in the proposal, 19 but I'm going to talk about them together. 20 So in December of 2022, we received a petition 21 to add both magnesium carbonate and magnesium carbonate 22 hydroxide as processing aids to the national list at 23 205.605(b). Specifically, as a drying or anticaking agent in organic chicory production. 24 A little history on this material. Magnesium 25

1 carbonate was previously listed at 205.605, but was removed 2 in 2017 as it was determined to not be essential. And at 3 the time when the material was listed, it did have an 4 annotation that limited it to being used and made with 5 organic products only.

As for the manufacturing process, magnesium -and for the remainder of this, I'll just refer to them as magnesium carbonates or MCs. So magnesium carbonates are manufactured through a reaction of a soluble magnesium salt, such as magnesium sulfate, magnesium chloride, or magnesium nitrate with an alkali carbonate, such as sodium carbonate or sodium bicarbonate.

Magnesium carbonate precipitates as a solid form from this aqueous reaction. Magnesium carbonates also can -- are naturally occurring in the rock known as magnesite. Although the TR stated that no commercial sources of food grade magnesium carbonates are being produced directly from that rock source.

Internationally, magnesium carbonates are generally allowed, but all of the international schemes that are included in the TR -- so Canada, Codex, EU, JAS, and IFORM (phonetic) those -- some restrictions made by Codex, EU, and JAS allowing magnesium carbonates only in processed products of plant origin or, alternatively, not allowed in food of animal origin. Canada restricts its allowance to

meat products with the 70 to 95 percent organic content designation which aligns with the "made with" category here in the US. JAS only allows magnesium carbonate, but not magnesium carbonate hydroxide.

5 And the subcommittee did discuss this, that 6 based on the allowance through these equivalence 7 arrangements, that there could be products imported into the 8 US through one of those equivalence arrangements that may 9 have been produced using magnesium carbonates as a 10 processing aid.

As far as human health and environmental impacts, the main environmental concern is due to the mining of magnesium, used as a precursor to the substance, and the adverse effect the mining industry has on the environment. This is not unique to this material. And it impacts several materials that are on the national list. And there isn't a human health concern.

There are several alternatives currently on 18 19 the national list, which I'll talk about those in a minute. And we did ask some questions to stakeholders about 20 21 essentiality. Did we misunderstand the scope? Is there new information since the material was removed in 2017? 22 We asked some questions of certifiers related to nanoparticles, 23 24 because that was sort of the impetus of the petition, calling into question the presence of nanoparticles in some 25

of those alternatives that I mentioned, such as calcium 1 2 carbonate and tricalcium phosphate and silicon dioxide. 3 And then, also, just wondering about any 4 impacts or challenges related to importing or exporting of 5 organic chicory powder. So we didn't get very many public comments, but all that we did receive were opposed to adding б 7 magnesium carbonate and magnesium carbonate hydroxide to the 8 national list, based on the subcommittee's analysis that this is not an essential substance as there are several 9 10 alternatives; and that if there is a true concern here from 11 any of those currently listed alternative materials, that 12 petitioning their removal is the better approach. 13 That's all I got. 14 BOARD MEMBER JOHNSON: Thank you, Kyla. 15 Any questions, discussion? I'll just note that maybe you kind of hear worries about rules weakening or 16 17 too many materials getting on the list. The bar remains We had a lot of discussion about this, want to 18 very high. 19 look for opportunities to grow the organic marketplace, but it's pretty hard to get a new material on the list. I think 20 21 this proposal is reflective of that. 22 CHAIR SMITH: Sorry. My job now. I see no 23 other comments or questions, so we will move to the vote. We have four votes, so we'll first do the classification 24 vote on magnesium carbonate. So this motion comes to the 25

Burke Court Reporting & Transcription (973) 692-0660

78

Board from subcommittee to classify magnesium carbonate as a 1 2 nonagricultural synthetic. It was motioned by Nate and 3 seconded by myself. And we will start the vote with 4 Franklin. 5 BOARD MEMBER QUARCOO: Yes. CHAIR SMITH: Nate Lewis? 6 7 SECRETARY LEWIS: Yes. 8 CHAIR SMITH: Allison? 9 BOARD MEMBER JOHNSON: Yes. 10 CHAIR SMITH: Brian? 11 BOARD MEMBER CALDWELL: Yes. 12 CHAIR SMITH: Jerry? 13 BOARD MEMBER D'AMORE: Yes. 14 CHAIR SMITH: Carolyn? 15 BOARD MEMBER DIMITRI: Yes. CHATR SMITH: 16 Wood? 17 BOARD MEMBER TURNER: Yes. 18 CHAIR SMITH: Mindee? 19 BOARD MEMBER JEFFERY: Yes. 20 CHAIR SMITH: Logan? 21 BOARD MEMBER PETREY: (No audible response.) 22 CHAIR SMITH: Didn't hear you, Logan. 23 BOARD MEMBER PETREY: Yes. 24 CHAIR SMITH: Thank you. Amy? 25 VICE CHAIR BRUCH: Yes.

CHAIR SMITH: Kim? 1 2 BOARD MEMBER HUSEMAN: Yes. 3 CHAIR SMITH: Nate Powell-Palm? 4 BOARD MEMBER POWELL-PALM: Yes. 5 CHAIR SMITH: Dilip? BOARD MEMBER NANDWANI: Yes. б 7 CHAIR SMITH: Chair votes yes. 8 SECRETARY LEWIS: Fourteen yes, one absent. 9 The motion passes. 10 CHAIR SMITH: Great. We will now go to the 11 listing motion for magnesium carbonate. So the motion comes 12 from the subcommittee to the full Board, motion to add 13 magnesium carbonate for use only as an anticaking agent in 14 chicory powder, 205.605(b). It was motioned by myself and 15 seconded by Nate Lewis. And then, Nate, you will start the vote. 16 17 SECRETARY LEWIS: No. 18 CHAIR SMITH: Allison? 19 BOARD MEMBER JOHNSON: No. CHAIR SMITH: Brian? 20 21 BOARD MEMBER CALDWELL: No. 22 CHAIR SMITH: Jerry? 23 BOARD MEMBER D'AMORE: No. CHAIR SMITH: 24 Carolyn? 25 BOARD MEMBER DIMITRI: No.

1	CHAIR SMITH: Wood?
2	BOARD MEMBER TURNER: No.
3	CHAIR SMITH: Mindee?
4	BOARD MEMBER JEFFERY: No.
5	CHAIR SMITH: Logan?
б	BOARD MEMBER PETREY: No.
7	CHAIR SMITH: Amy?
8	VICE CHAIR BRUCH: No.
9	CHAIR SMITH: Kim?
10	BOARD MEMBER HUSEMAN: No.
11	CHAIR SMITH: Nate Powell-Palm?
12	BOARD MEMBER POWELL-PALM: No.
13	CHAIR SMITH: Dilip?
14	BOARD MEMBER NANDWANI: No.
15	CHAIR SMITH: Franklin?
16	BOARD MEMBER QUARCOO: No.
17	CHAIR SMITH: Chair votes no.
18	SECRETARY LEWIS: Zero yes, fourteen no, one
19	absent. The motion fails.
20	CHAIR SMITH: We will now go to the
21	classification vote for magnesium carbonate hydroxide. The
22	motion comes from the subcommittee to the full Board. The
23	motion to classify magnesium carbonate hydroxide as
24	nonagricultural synthetic. It was motioned by Nate Lewis
25	and seconded by myself. The vote starts with Allison.

1	BOARD MEMBER JOHNSON: Yes.
2	CHAIR SMITH: Brian?
3	BOARD MEMBER CALDWELL: Yes.
4	CHAIR SMITH: Jerry?
5	BOARD MEMBER D'AMORE: Yes.
6	CHAIR SMITH: Carolyn?
7	BOARD MEMBER DIMITRI: Yes.
8	CHAIR SMITH: Wood?
9	BOARD MEMBER TURNER: Yes.
10	CHAIR SMITH: Mindee?
11	BOARD MEMBER JEFFERY: Yes.
12	CHAIR SMITH: Logan?
13	BOARD MEMBER PETREY: Yes.
14	CHAIR SMITH: Amy?
15	VICE CHAIR BRUCH: Yes.
16	CHAIR SMITH: Kim?
17	BOARD MEMBER HUSEMAN: Yes.
18	CHAIR SMITH: Nate Powell-Palm?
19	BOARD MEMBER POWELL-PALM: Yes.
20	CHAIR SMITH: Dilip?
21	BOARD MEMBER NANDWANI: Yes.
22	CHAIR SMITH: Franklin?
23	BOARD MEMBER QUARCOO: Yes.
24	CHAIR SMITH: Nate Lewis?
25	SECRETARY LEWIS: Yes.

1 CHAIR SMITH: Chair votes yes. 2 SECRETARY LEWIS: Fourteen yes, zero one, one 3 The motion passes. absent. 4 CHAIR SMITH: And lastly, the listing motion 5 for magnesium carbonate hydroxide. The motion comes from the subcommittee to the full Board. Motion to add magnesium б 7 carbonate hydroxide for use only as an anticaking agent in 8 chicory powder, 205.605(b). The motion was made by myself 9 and seconded by Nate. And the motion -- or, I'm sorry, the 10 vote will start with Brian. 11 BOARD MEMBER CALDWELL: No. 12 CHAIR SMITH: Jerry? 13 BOARD MEMBER D'AMORE: No. 14 CHAIR SMITH: Carolyn? 15 BOARD MEMBER DIMITRI: No. 16 CHAIR SMITH: Wood? 17 BOARD MEMBER TURNER: No. 18 CHAIR SMITH: Mindee? 19 BOARD MEMBER JEFFERY: No. 20 CHAIR SMITH: Logan? 21 BOARD MEMBER PETREY: No. CHAIR SMITH: 22 Amy? 23 VICE CHAIR BRUCH: No. CHAIR SMITH: Kim? 24 25 BOARD MEMBER HUSEMAN: No.

83

CHAIR SMITH: Nate Powell-Palm? 1 2 BOARD MEMBER POWELL-PALM: No. 3 CHAIR SMITH: Dilip? 4 BOARD MEMBER NANDWANI: No. 5 CHAIR SMITH: Franklin? BOARD MEMBER QUARCOO: б No. 7 CHAIR SMITH: Nate Lewis? 8 SECRETARY LEWIS: No. 9 CHAIR SMITH: Allison? 10 BOARD MEMBER JOHNSON: No. 11 CHAIR SMITH: Chair votes no. 12 SECRETARY LEWIS: Zero yes, fourteen no, one 13 absent. The motion fails. 14 CHAIR SMITH: Look at us going back and forth 15 between four classification and listing motions, and nobody 16 messed up. I'm so proud of you all. 17 Back to you, Allison. 18 BOARD MEMBER JOHNSON: Thank you, Kyla. 19 All right. Moving right along to our next petition substance, rye pollen extracts. Carolyn is going 20 to lead us on this discussion. 21 RYE POLLEN EXTRACTS - PETITIONED 22 PROPOSAL: 23 BOARD MEMBER DIMITRI: Great. Thank you. Ι 24 will make this kind of short because it seems very straightforward to us. 25

The petition was to -- for rye pollen extract, which is extracted from rye pollen, and it creates a product that would be used as sweetener syrup, like a vegan version of honey.

5 The petitioner says that they are unable to find high pollen rye breeder seeds in organic form and, б therefore, wanted to be able to use conventional seed grown 7 8 conventionally -- grown under conventional methods. And the 9 TR pointed out very nicely, that actually under 205.204(a)10 the producer would be allowed to use nonorganic untreated 11 seed to grow an organic crop as the basis for this rye 12 pollen extract. And the committee agreed with that.

And I just wanted to say, I always -- I channeled my inner Kyla there, because I said some numbers that were related to the regulation which always is impressive when people can pull that out -- but I read it here.

So -- anyway, so the subcommittee agreed that this should not be added to the national list for that reason. CHAIR SMITH: Excellent. Thank you, Carolyn,

and good use of numbers. Appreciate it.

23

BOARD MEMBER DIMITRI: Thank you.

24 CHAIR SMITH: Any discussion, questions for25 Carolyn? Sounds like a market opportunity out there for

1 someone.

2	Very proud of you for using your numbers
3	correctly, Carolyn. Love a good regulatory reference.
4	I don't see any comments or questions, so we
5	will move to the vote. So, again, we will do the
6	classification vote first. So the motion came from the
7	Handling Subcommittee to the full Board, motion to classify
8	rye pollen extract as agricultural. It was motioned by
9	Carolyn and seconded by myself. And the vote starts with
10	Jerry.
11	BOARD MEMBER D'AMORE: Yes.
12	CHAIR SMITH: Carolyn?
13	BOARD MEMBER DIMITRI: Yes.
14	CHAIR SMITH: Wood?
15	BOARD MEMBER TURNER: Yes.
16	CHAIR SMITH: Mindee?
17	BOARD MEMBER JEFFERY: Yes.
18	CHAIR SMITH: Logan?
19	BOARD MEMBER PETREY: Yes.
20	CHAIR SMITH: Amy?
21	VICE CHAIR BRUCH: Yes.
22	CHAIR SMITH: Kim?
23	BOARD MEMBER HUSEMAN: Yes.
24	CHAIR SMITH: Nate Powell-Palm?
25	BOARD MEMBER POWELL-PALM: Yes.

1 CHAIR SMITH: Dilip? 2 BOARD MEMBER NANDWANI: Yes. 3 CHAIR SMITH: Franklin? 4 BOARD MEMBER QUARCOO: Yes. 5 CHAIR SMITH: Nate Lewis? SECRETARY LEWIS: Yes. 6 7 Allison? CHAIR SMITH: 8 BOARD MEMBER JOHNSON: Yes. 9 CHAIR SMITH: Brian? 10 BOARD MEMBER CALDWELL: Yes. 11 CHAIR SMITH: Chair votes yes. 12 SECRETARY LEWIS: Fourteen yes, zero no, one 13 The motion passes. absent. 14 CHAIR SMITH: And to the listing motion, the motion comes before a full Board from the subcommittee. 15 16 Motion to add rye pollen extract as petitioned at 205.606. 17 It was motioned by Carolyn and seconded by Jerry. And the 18 vote starts with Carolyn. 19 BOARD MEMBER DIMITRI: No. CHAIR SMITH: 20 Wood? 21 BOARD MEMBER TURNER: No. 22 CHAIR SMITH: Mindee? 23 BOARD MEMBER JEFFERY: No. CHAIR SMITH: 24 Logan? BOARD MEMBER PETREY: 25 No.

1	CHAIR SMITH: Amy?
2	VICE CHAIR BRUCH: No.
3	CHAIR SMITH: Kim?
4	BOARD MEMBER HUSEMAN: No.
5	CHAIR SMITH: Nate Powell-Palm?
6	BOARD MEMBER POWELL-PALM: No.
7	CHAIR SMITH: Dilip?
8	BOARD MEMBER NANDWANI: No.
9	CHAIR SMITH: Franklin?
10	BOARD MEMBER QUARCOO: No.
11	CHAIR SMITH: Nate Lewis?
12	SECRETARY LEWIS: No.
13	CHAIR SMITH: Allison?
14	BOARD MEMBER JOHNSON: No.
15	CHAIR SMITH: Brian?
16	BOARD MEMBER CALDWELL: No.
17	CHAIR SMITH: Jerry?
18	BOARD MEMBER D'AMORE: No.
19	CHAIR SMITH: Chair votes no.
20	SECRETARY LEWIS: Zero yes, fourteen no, one
21	absent. The motion fails.
22	CHAIR SMITH: Back to you, Allison.
23	BOARD MEMBER JOHNSON: Thanks so much. And
24	thank you, Kyla and Carolyn, for taking on these petitions.
25	It's a lot of work to go through the review and the write-
l	

up, even when the outcome is relatively simple. 1 So 2 appreciate the time you put into these. 3 All right. Next, moving right along to Sunset 4 So we're going to go through a discussion of 20reviews. 5 some-odd materials. We'll break somewhere in the middle for lunch, unless we're lightning fast. So we will -- and just, б 7 again, as a reminder, I'm going to be going in a different 8 order than is in the printed materials packet. So you might have to jump around, but everything is there. 9 10 And we'll kick it off with acids, citric and 11 lactic with Nate Lewis, who needs to find it in his binder. 2026 HANDLING SUNSET REVIEWS: 12 13 ACIDS (CITRIC AND LACTIC) 14 SECRETARY LEWIS: Bear with me, folks. 15 Counting isn't my specialty. So I'm trying to react here. So I had both lactic and citric acids as part 16 17 of my Sunset duties. I'll start with citric, and then move 18 on to lactic with an opportunity for Board discussion in 19 between. Citric acid is widely used in food processing. 20 It's an ingredient of chelant pH control flavoring 21 22 foundationally necessary and essential in organic 23 processing. It's used in baby foods, breakfast cereals, frozen desserts, entrees, all sorts of things. 24 It's generally internationally accepted with our trading 25

partners. We don't have any new information to suggest that 1 2 citric acid should be removed from the national list. 3 We did ask a question to stakeholders and 4 public commenters about whether Sunset is the appropriate 5 time or if it is the appropriate time now for NOSB to consider a commercial availability annotation for the б substance. And we kind of got mixed reviews on that. 7 Ι 8 think folks who sort of support the concept of commercial availability, I -- we heard being applied to 605 items, we 9 heard them say that Sunset may not be the right time to do 10 11 that, and the petition process is the best time. 12 So just between the public comments that both 13 indicate it's essential and, perhaps, that there isn't quite 14 the volume or availability of the product right now, and wanting to be really cautious about how we use our Sunset 15 16 time to not get overloaded with too many annotation 17 considerations. 18 I think my personal recommendation to the 19 Board is to not pursue that, but I would appreciate other thoughts on that particular topic as we move into 20 discussion. 21 The other facet of citric acid for this Sunset 22 23 review is we did request a limited scope TR. And we received that and we utilized some of the questions that 24 were included on yesterday's TR template update as a -- for 25

1 this limited scope, TR as a sort of a pilot to evaluate how 2 those -- how we -- just exactly what kind of information we 3 would receive by asking a few more questions on excluded 4 methods and manufacturing processes.

5 It was, I think, actually a perfect example of how those additional questions can make our reviews more б In summary, it sort of indicated that while 7 effective. 8 there are forms of GMO bacteria that could be used to generate citric acid, those are all in experimental phase, 9 10 and the processes right now with Aspergillus niger to create 11 citric acid in a fermentation setting are so well-developed that right now there's no real commercial drive to include 12 13 GMO bugs in that fermentation process.

So whether or not that changes in the future, you know, we don't have a crystal ball, and that's not what we're expecting of the TRs, but it is a helpful snapshot into the current state. And so certifiers now have more information to evaluate excluded methods, prohibition on citric acid specifically.

20 So I think in this particular example, those 21 additional questions really shed some light on the current 22 status of that particular concern.

23 So I think with that, I'll open it up to 24 comments. And I'd be welcome to answer any questions or 25 discussion on TR template or commercial availability. CHAIR SMITH: Thanks, Nate. Great overview. Any questions or discussion on these materials? Mindee?

1

2

3

4 BOARD MEMBER JEFFERY: I just wanted to 5 express my appreciation for how you went back crosscollaborating in the subcommittees and looking towards the б 7 work of what this particular substance could do to inform 8 the work of the TR template. And I just think it's really 9 important that we just honor and acknowledge the collective 10 intelligence of this Board and how fun it is to really get 11 it right when you, like, think really big and work across 12 all subcommittees and sort of plan ahead and strategize how 13 we can make sure we get it right. So appreciate the work 14 there.

15CHAIR SMITH: Any other comments or questions?16All right. Great. Thank you.

17 Next up we have -- oh, sorry. Just go ahead,18 lactic acid.

19 SECRETARY LEWIS: Oh, yeah, I was just going 20 to move on to lactic acid. Again, lactic acid is a widely 21 used ingredient in pretty much every segment of the food 22 industry. It's used in sugar, confectionary, and bakery 23 products; increases better stability in volume; increases --24 or produces a mild and pleasant taste in acid pickles, so 25 it's a really important thing for me, in particular.

1	Anyway, it is widely used. It's used for pH adjustments in
2	brewed beverages. Again, widely allowed in all of our
3	trading partners' respective approaches to organic
4	certification and organic food products; no serious human
5	health or environmental issues were identified; and the
6	subcommittee did not really identify any rationale for
7	removing it from the national list. It remains essential,
8	and we did not have any questions to stakeholders.
9	CHAIR SMITH: Great. Thanks, Nate.
10	This is one of these weird ones where it's two
11	materials, sort of - not exactly the same under one line
12	item, but separate items for review. So any comments,
13	discussion, questions? Great.
14	2026 HANDLING SUNSET REVIEWS: CALCIUM CITRATE,
15	POTASSIUM CITRATE, AND SODIUM CITRATE
16	CHAIR SMITH: Okay. Now, for real, moving on
17	to some citrates. We have calcium citrate, potassium
18	citrate, and sodium citrate, with Carolyn.
19	BOARD MEMBER DIMITRI: Great. Thank you.
20	Well, these three citrates are all derived
21	from citric acid, and they have different purposes, but
22	generally, buffering and emulsifying, pH control, flavoring
23	agents. Along with other functions in calcium citrate also
24	can be calcium in supplements and is used in baked goods.
25	So, in general, there were not that many

comments. And the comments that there were on these 1 2 projects largely supported relisting. And I think the 3 committee so saw reason to remove these products from the 4 list. 5 I do kind of want to circle back to Nate for one second. I seem to recall like an OMRI comment to one of б 7 these ingredients with some reference to the TR template Do you remember seeing that? I just kind of 8 adjustments. wanted to acknowledge that it existed. 9 SECRETARY LEWIS: I think you're right. 10 11 BOARD MEMBER DIMITRI: Yeah. 12 SECRETARY LEWIS: It exists. 13 BOARD MEMBER DIMITRI: Right. And I think it was like not -- I know we already voted on the TR template, 14 so I just -- I guess I wanted to bring it out that OMRI 15 16 was -- had some concerns about what we proposed. 17 Anyway, I have -- any comments, questions, 18 thoughts? CHAIR SMITH: Looks like we're good on these 19 20 ones. Thank you, Carolyn. 21 BOARD MEMBER DIMITRI: Thank you. 22 CHAIR SMITH: And speaking of the TR template 23 and complicated things related to excluded methods, next up we have enzymes, microorganisms, and yeast with Jerry. 24 And I know Jerry really wrestled with these materials, and put 25

in a huge amount of work and thinking about what to do with 1 2 the new information that we have coming in, similar to Nate 3 and Carolyn on the previous material. 4 So kick it over to you with gratitude. 5 HANDLING SUNSET REVIEWS: ENZYMES, б MICROORGANISMS, YEAST 7 BOARD MEMBER D'AMORE: And thank you for that. 8 I think one of the other things is I did a lot of learning. This was not designed to be done by a rookie or somebody 9 that wasn't thoroughly grounded in certification, in my 10 11 mind. 12 But here it is. The way I want to do this is 13 to refer and start back with the TR and talk to all three of these substances, and then give a quick individual look at 14 15 them again individually. The first thing I'd like to note, and I don't 16 17 know the significance of it, but these three substances collectively have or -- and formed by 14 independent tabs, 18 or TRs. And they are also then underpinned by the most 19 recent 2023 limited scope TR. So I'm going to present three 20 distinct sections to this. The first is titled, "The 2023 21 22 Limited Scope TR, " and it -- for me, titled what we asked 23 for. Number two, a single document summarizing the 24 three Sunsets titled -- again, for me, Sunsets NATR, and 25

then, followed up by a very brief summary of stakeholder
 comments for the spring session.

3 So enzymes, microorganisms, and yeast, the 4 limited scope technical report provided updated information 5 for the National Organic Standards Board in support of the 6 Sunset reviews of the following substances: enzymes, 7 microorganisms, and yeast. I won't read what it says beyond 8 that for these three, because I covered that in the 9 individual ones.

10 Enzymes and yeast are both included on the 11 national list of allowed and prohibited substances -hereafter referred to as the national list. The first 12 13 publication of the National Organic Program Rule 65 FR --14 forget it -- bacteria derived from -- excuse me -- it's not to be dismissive -- so -- but anyway, going back to 1995, 15 fungal derived from NOSB 1996 plant derived NOSB 1996 D 16 17 animal derived enzymes were covered in separate technical 18 reports. Microorganisms were added to the national list 19 effective September 12, 2006.

The annotation for yeast was later reformatted to condense separate lines into a single entry, but otherwise, the change did not affect the meaning or language. The listings for enzymes and yeast were reformatted without any changes to the annotation. Finally, the national list entry for yeast was

1 updated to include the current annotation, which includes a 2 clause requiring organic yeast and less commercially 3 unavailable.

I'm four and a half years into this job and to 4 5 have something emphatically say it must have, and then say, with unless, is, for me, too easy a transition. б This technical report focuses on the fermentation process used to 7 8 create these substances, with specific attention given to the use of excluded methods and their development and 9 manufacture. However, it is not practical to evaluate the 10 11 fermentation process and the potential use allowed in 12 excluded methods for every enzyme, microorganism, and yeast 13 product on the market within one technical report.

14 Instead, we provided an overview of the 15 fermentation process and possible ways both allowed and 16 excluded methods are used to reduce these materials, with 17 example and considerations.

An example list of manufacturers and brand 18 19 names for enzymes, microorganisms, and yeasts is included in Table 4, within the appendix of this report. Furthermore, 20 the list of enzymes, their uses, CSRNs, and EC 21 identification numbers are included in Table 5. 22 23 The request for this technical report included an excluded method -- excuse me. Let me start again. 24 The request for this technical report included 25

a list of excluded methods based on the current NOSB
recommendations which are defined in the definitions of CFR
205.2. Current NOSB recommendations also refer to some
technologies that were not considered prior to the
publication of the NOP final rule in 2022.

Both the technologies considered in the NOSB's б original recommendation, and those in the current 7 8 recommendations, are collectively referred to as excluded 9 methods. Most of the methods considered by the NOSB in 2022 10 recommend -- recommendation applied to plants and animals that reproduce sexually. The TR also includes examples of 11 12 microorganisms produced with conjugation, which is mentioned 13 in 205.2, as a nonexcluded method, and is, therefore, not 14 considered to be excluded from organic production and 15 handling.

16 Last paragraph for this portion of it -- and 17 for me, an important one. The TR provides examples of some of the better-known uses and methods of production for 18 enzymes, microorganisms, and yeast, and offers explanations 19 as to why they are allowed, excluded, otherwise prohibited, 20 21 or required -- or require NOSB consideration for classification. 22 23 A list of food use microorganisms and whether

A list of food use microorganisms and whether excluded methods are used in their production are listed in Table 6 within the appendix. This report gives a broad

overview of fermentation processes designed and certain 1 2 common elements involved in fermentation technology. 3 The examples provided illustrate specific 4 fermentation processes, and are not intended to cover all 5 possible processes used to make ingredients intended for use in organic foods. б 7 It is beyond the scope of this TR to provide a 8 comprehensive list of all products, every method by which 9 they are produced, and an exhaustive list of their uses, or 10 information about whether any specific product is currently 11 used in organic processing. So that's what we asked for. 12 It goes guite a 13 bit longer, and it -- it was, in its inception, as 14 mentioned, did concern me, and it concerned me in the stream 15 of traceability of excluded methods. And it made me take a deep dive into what a certifier goes through, which I had 16 17 never done and which was highly necessary. And it took me off of the cliff that would have said, oh, my God, how can I 18 19 even work with these? And showed me the path of currently used of -- of affidavits and follow-up, and processes. 20 So we'll have more on that a little bit later. 21 22 I -- give me a second. I would now like to go to my second 23 piece of this. Again, titled, "Three Sunsets in a Limited Scope TR." Okay. Again, microorganisms, nonsynthetic 24 allowed; enzymes, nonsynthetic allowed; yeast, also 25

Burke Court Reporting & Transcription (973) 692-0660

99

nonsynthetic allowed. The limited scope TR, for microorganisms, enzymes, and yeast limited to researching fermentation processes used to derive these substances indicate which products are derived using organisms developed by excluded methods, in which products are derived using organisms developed through allowed methods including, but not limited to, those listed as methods allowed.

8 During the 16 January 2025 Handling 9 Subcommittee meeting, this TR was determined to be 10 sufficient as a document focused on excluded methods. Α personal note from me at the time was, I believe that the 11 12 value of this limited scope TR will go beyond its 13 contribution to the Sunset review process for these three substances; and that it will eventually be used in a 14 comprehensive review of excluded methods for all national 15 list items produced using fermentation. 16

Microorganisms: Any food grade bacteria, fungi, or other microorganism. Use: Used as an organic handling. Includes bacteria, yeast, and viruses, and are used to make many well-known products, such as yogurt, miso, soy sauce, and saki. I'll stop there. Manufacturer: Generally, a medium is inoculated with a sample of fermented food to produce a starter culture.

24The 2023 limited scope TR stated that there is25no direct evidence that microorganisms, other than yeast,

were produced by excluded methods, but these were cases in which no methods were -- but there were cases in which no methods are disclosed.

National acceptance: No red flags anywhere. Ancillary substances: Ancillary substances may be presented in microorganism culture present in microorganism cultures, and primarily include the growth media used to produce the microorganism and the fillers or carriers to bring the microorganism to purchases in a stable and predictable form.

10 Human health and environmental issues: 11 Microorganisms have been stable -- have been a staple in 12 food production for centuries, and they are generally viewed 13 as a necessary input. They pose minimal health risk and, in 14 many cases, can enhance health. Referring back to the limited scope TR, it did -- and this was a driving 15 16 distinction -- I'm going to back up about this TR. Ι 17 started off by saying how many TRs and TAPs underpinned these three things, and they were well done and they were, I 18 think, well considered. 19

20 What the 2023 TR did, it came on top of that, 21 endorsed everything behind it, and then went into excluded 22 methods. So that is, for me, the reason this '23 limited 23 scope TR is exceptional and, again, brings me to some of the 24 concerns that I have or that -- excuse me. Let me put it 25 this way -- some of the concerns that I initially had in

1 getting involved in this.

2	Discussion: In general, microorganisms are
3	essential to the production of many organic foods, and they
4	are widely used in the industry. I'm going to fast-forward
5	because we'll catch some of that later in the other two.
6	I'll go to yeast.
7	Yeast: A nonsynthetic allowed when used as a
8	food or fermentation agent in products labeled as organic.
9	Yeast may must be organic if it is if its end use is
10	for human consumption. And this is the part I like.
11	Nonorganic use may be used when organic yeast is not
12	commercially available. I just think there should be a
13	smoother transition.
14	Yeast is widely used and has been for
14 15	Yeast is widely used and has been for centuries. It is a microorganism that is commonly used for
15	centuries. It is a microorganism that is commonly used for
15 16	centuries. It is a microorganism that is commonly used for fermentation in baking food flavors, adding nutritional
15 16 17	centuries. It is a microorganism that is commonly used for fermentation in baking food flavors, adding nutritional value and providing health benefits.
15 16 17 18	centuries. It is a microorganism that is commonly used for fermentation in baking food flavors, adding nutritional value and providing health benefits. Manufacture: Yeast is typically grown in a
15 16 17 18 19	centuries. It is a microorganism that is commonly used for fermentation in baking food flavors, adding nutritional value and providing health benefits. Manufacture: Yeast is typically grown in a lab environment to prevent contamination from undesirable or
15 16 17 18 19 20	centuries. It is a microorganism that is commonly used for fermentation in baking food flavors, adding nutritional value and providing health benefits. Manufacture: Yeast is typically grown in a lab environment to prevent contamination from undesirable or pathogenic organism. The lab-grown yeast is then used to
15 16 17 18 19 20 21	centuries. It is a microorganism that is commonly used for fermentation in baking food flavors, adding nutritional value and providing health benefits. Manufacture: Yeast is typically grown in a lab environment to prevent contamination from undesirable or pathogenic organism. The lab-grown yeast is then used to inoculate growth media for industrial production. I'm not
15 16 17 18 19 20 21 22	centuries. It is a microorganism that is commonly used for fermentation in baking food flavors, adding nutritional value and providing health benefits. Manufacture: Yeast is typically grown in a lab environment to prevent contamination from undesirable or pathogenic organism. The lab-grown yeast is then used to inoculate growth media for industrial production. I'm not going to go through the whole thing. I'll just point out

International acceptance: As before, absolutely no red flags. In total harmony with our partners. Ancillary substances: According to the 2014 TR, there are few yeast species that are formulated with no ancillary substances; however, many commercially available yeasts are formulated with other ingredients.

Human health concerns and environmental concerns: While yeast, itself, is often considered to be a minimal risk to both environment and human health, there can be negative environmental impacts from the manufacturing process. Appropriate mitigation strategies exist. And when properly used, minimize environmental impact.

13 The 2023 Limited Scope TR did not provide 14 additional information on the potential impacts to human 15 health or environmental issues. Basically, what they did, 16 they gave the seal of approval to what had been said before. 17 Discussion: Public comment from the -- from 18 spring 2019 meeting, a full Board meeting was overwhelmingly 19 in favor of relisting yeast as annotated. Commentators noted that since yeast is commonly not available in organic 20 21 form, necessary for certain flavors, yeasts are not always

quality can vary, i.e., asking for the annotation to stay as it is.

available in the quantities needed; and that organic yeast

22

25

Enzymes -- and this will be the last one.

It'll be much shorter because it follows lockstep with the other two. Nonsynthetic allowed enzymes must be derived from edible nontoxic plants, nonpathogenic fungi, or nonpathogenic bacteria.

5 Enzymes are produced by all living organisms. 6 However, this report only focuses on enzymes produced by 7 microorganisms. Enzymes are commonly used in the production 8 of sweeteners, chocolate syrups, bakery products, alcoholic 9 beverages, et cetera.

10 Manufacture: According to the 2023 Limited 11 Scope TR, food grade enzymes are typically produced in pure 12 culture fermentation, using current good manufacturing 13 practices for food. International acceptance: Also in full 14 harmony with the international community. Ancillary 15 substances: A very long and detailed explanation given in the 2026 Sunset Review of enzyme -- yes. Okay. 16 Sunset 17 reviews of enzymes reflecting the various processes required 18 for their many uses.

Human health and other issues: The 2021 TR
did not find the manufacturer or use of enzymes to be
harmful to the environment or biodiversity.

That is that part. The last part is a tensecond deal. For this particular comment period, we had a total of 19 comments, both verbal and written; 16 -- this is for microorganisms -- 16 were in favor of keeping the

microorganism on the national list. Some lengthy and very 1 2 thoughtful responses supporting that notion. 3 Enzymes, about 16 total comments, with the 4 majority being written, 15 were in favor of keeping enzymes 5 on the national list -- again, some good and thoughtful responses. Yeast, 13 total comments, with the majority б 7 being written. All were in favor of keeping the yeast on 8 the national list. 9 So I want to apologize to all of you, without 10 being able -- taking you through all of that, I would not be 11 in a position to be any good at answering questions. Thank 12 you. 13 BOARD MEMBER JOHNSON: Thanks so much, Jerry. 14 And I don't think I've ever heard anyone refer to you as a 15 rookie at anything, but --16 BOARD MEMBER D'AMORE: In this arena, I'm a 17 rookie. 18 BOARD MEMBER JOHNSON: Well, really detailed, and thanks for walking us through your thought process in 19 the background. 20 21 Questions, discussion? Wait. Where are we 22 pointing? Right. Yeah. 23 BOARD MEMBER CALDWELL: Thanks, Allison. And thanks, Jerry. Jerry does a really wonderfully thorough and 24 thoughtful job on his reviews. When I first came on the 25

Board, he was saddled with copper, which was a massive, massive undertaking, and really appreciate all that great work, Jerry.

Just a thought about some of this. And I'm 4 5 hoping that Kyla can correct me if needed, because sometimes when I get in the handling arena, I can get off track. б But 7 it seems to me that in terms of enzymes, there is a 8 longstanding sort of precedent within the organic certification and processing realm, and that is with 9 cheeses, I believe that for a long time there have been GMO 10 11 enzymes that have been excluded from use in organic cheeses. 12 Am I right about that? Okay. Just kind of

wanted to put that out there as kind of an example of something that is in place, has been for many years -trying to deal with, again, these very difficult issues. But put that out there. So I'm glad I was right this time. That's nice.

Thank you, Kyla.

18

19BOARD MEMBER JOHNSON: Thanks, Brian. It's a20good concrete example to bring some context. Other21questions, discussion? Kyla?

CHAIR SMITH: Yeah. I just want to acknowledge just some of the comments that we got in general around fermentation. And I think it's maybe a twofold issue that we might want to talk about, and that is related to 1 classification. And then, also some questions related to 2 excluded methods.

So I do know also that in some of the written 3 public comments, that the ACA best practices were submitted. 4 5 So I encourage first -- on the way home on the plane, some light reading to familiarize yourself with the ACA best б 7 practices on this. They do, you know, refer to the use of 8 affidavits, and that the language on the affidavit should encompass the entire manufacturing process of the material, 9 10 including the source organism, such that the products 11 produced from fermentation by a GMO organism are evaluated 12 and prohibited, even if the final product does not contain 13 genetically modified material. So I'm just reading from the 14 best practice. And there is a template document that can be 15 utilized by certifiers to collect that information.

So -- I don't know. I just wanted to point that out. And I do know that we sort of talk about how far back. And so I think we can explore that a little bit more. And then, also, just when do we -- when does the decision tree start? And that is getting at the classification piece. So I think we can try to unpack that a little bit, more just to make sure.

I think certifiers are generally on the same page, but just to make sure we're on the same page; and that also the rest of the community and the stakeholders are sort

of aware of what's going on in material review. BOARD MEMBER D'AMORE: Thank you for that, Kyla. The question of how far back was one of the ones that teased me the most. And at the risk of now saying too much again, I -- and having a real affinity for the consumer side of what we all represent, I will give you a quick anecdotal,

and it's for a reason.

7

8 I was at a dinner party with a few good people 9 and, you know, "What do you do?" And the whole -- this 10 whole topic actually came up about excluded methods and the 11 efficacy of what we then pass along as okay. And the 12 example was given of Nate's citric acid and the -- it was 13 further explained that as the product arrives here from 14 wherever it's coming, that we do not have the technology 15 available to slice and dice what you have right in front of 16 you, and complete that whole backwards process; that you've 17 truly don't know at that point what the first step could 18 have been.

19 So that's where the affidavits come in. 20 That's where I derive my certain sense of comfort. But I 21 would like to give you the comment -- and this is for 22 another time, this is not for now, but it's apropos to, I 23 think, a lot of what we're going to -- you all are going to 24 be going through in the next couple of years -- is PhD 25 biologist looked at me and said, "Well, if the best that we

have cannot tell you where the heck it came from, why should we care?" I want you to ponder that question, because to me that becomes a big question.

4 Why do we care? We do. We're diligent. And 5 I am happy or -- I'm quite okay with passing along this to this subcommittee or to this full Board saying, this б 7 doubting Thomas, not very well schooled in what we all do, 8 in terms of certification, et cetera, did end a long and arduous process feeling quite okay with what we do. 9 Thank 10 you.

11

BOARD MEMBER JOHNSON: Thanks, Jerry.

12 Any other discussion or questions? All right. And I'll just mention, you'll notice that we're kind of 13 14 batching or grouping some of these materials, for several 15 reasons, one is survival and handling with these long, long 16 lists. We've got to get through them. But more 17 importantly, we're looking for ways to make Board service accessible, achievable for lots of different people. 18 So 19 trying to find ways to make this review process efficient and as easy to understand as possible is, I think, achieved 20 by having these groupings. And then, we actually get kind 21 22 of better context when we think about them together, how 23 they relate, what the alternatives are.

24So that's a transition to the next couple of25materials that Wood's going to take on. We've got hydrogen

peroxide and peracetic acid. We've heard about these in other committees. This is the handling version. Take it away.

4 2026 HANDING SUNSET REVIEWS: HYDROGEN PEROXIDE, 5 PERACETIC ACID/PEROXYACETIC ACID Yup. And I think I can б BOARD MEMBER TURNER: contribute to the efficiency goal in these two reviews. 7 Т 8 know I'm following Jerry, I need to make up some time. So we heard Franklin in livestock talk about 9 10 hydrogen peroxide. Did a great job. Very thorough 11 presentation of the science behind hydrogen peroxide. 12 It's -- quite honestly, this is a sanitizer in the toolkit 13 that's really a slam dunk. As long as it's used in --14 consistent with regulations, EPA, USDA, and FDA labels and regulations, it does not cause -- should not cause any 15 16 issues. It's got good consistency across international 17 frameworks, as well. Along with those facts, it's -- we also heard from 13 folks -- 13 commenters in the public 18 19 comments, all of which supported this. This is across all of our different stakeholder entities, trade associations, 20 21 growers, handle -- certifiers, NGOs, CPGs, the whole nine 22 yards.

I did think it was important to flag that one certifier did say, you know, this is an important -- being able to continue to use things like hydrogen peroxide in --

for -- as a sanitizer, does continue to provide an 1 2 alternative to quaternary ammonium compounds quats, which I 3 know concerns all of us. So very comfortable with the 4 feedback we got from the community on this particular 5 material. That's it. б CHAIR SMITH: Thanks, Wood. Any questions or 7 comments? 8 BOARD MEMBER TURNER: Moving along. 9 CHAIR SMITH: Moving right along. Thank you. BOARD MEMBER TURNER: Moving right along. 10 11 Peracetic acid and peroxyacetic acid. 605(b), synthetic 12 allowed. Similar story here. And, by the way, I should 13 have said in the hydrogen peroxide, there's a TR from 2015 14 for hydrogen peroxide, and a TR from 2016 for peracetic acid 15 and peroxyacetic acid. You know, just as a flag to, you 16 know, those of you who are newer on the Board, you know, we 17 do have this continued issue of really feeling the need from 18 the community to assess and understand the sanitizer 19 landscape that we all operate within, and the essentiality of some of these materials and, sort of, maintaining the 20 viability of organic products. 21 22 And so we're still, I would say, stalled as a 23 Board, in terms of sort of what that step should be -- what that next step should be. But I would suggest to maybe some 24 25 of you who are behind me on the Board that, you know, the

fact that we've got a 2015 and a 2016 TR for these 1 2 sanitizers might be a flag to just be able to say, hey, 3 maybe this is the time that we lean into this. So I just want to put that out there for folks to suggest that maybe 4 5 there's an agenda item here to kind of move this forward -move the sanitizer discussion forward, because it is -- it б 7 does continue to be something that the community says, hey, 8 there's got to be a unique way to evaluate the sanitizer 9 toolkit.

10 That being said, I think if we didn't have 11 peracetic acid and peroxyacetic acid, we probably would not 12 have organic. So there's -- we had 17 written comments from 13 the same breadth of the community that we had for hydrogen 14 peroxide, strong support for this material, strong support 15 I really do appreciate, by the way, when we get for it. feedback from the community, that when organizations talk 16 about things very specifically, about how they're using --17 how they use these materials, it just adds color. 18 I just love that kind of -- I love those kinds of public comments, 19 20 you know.

One commenter talked about how critical peracetic acid is to CIP equipment -- to the CIP process, the clean-in-place process for the equipment they've invested in, to be able to do what they do. So, you know, these are important things to sort of flag for us, because

in the end of this -- end of the day, even though it's outside of our purview to think about the economics here, it's all economic. So I think that's what I'll say about that material and leave it at that.

5 Thanks, Wood. BOARD MEMBER JOHNSON: Kyla? б CHAIR SMITH: Yeah. Just in regard -- not 7 specific to PAA really, but just in the broader topic of 8 sanitizers, I know that we hear from stakeholders around 9 wanting like this comprehensive review. And so, perhaps we 10 can have our support staff try to get some of that 11 information for us to help us start to frame that out on 12 what that looks like. And it's -- I'm a little unclear of 13 like, then what? Right, I think. So we need these 14 sanitizers. Clearly, we've heard that having multiple 15 different types of sanitizers to be able to use in a rotation is helpful. And so, I guess I just don't know like 16 17 what the next step is. We like get all this information, But I think at least we'll have that as a 18 and then, what? 19 starting point, and then maybe we can try to figure it out. But, yeah. 20 21 BOARD MEMBER TURNER: Yes. 22 CHAIR SMITH: I just feel like -- I'm not sure 23 what we do with that information.

BOARD MEMBER TURNER: Exactly. Well said.
Yeah. I don't know either.

BOARD MEMBER JOHNSON: Thank you. Any other 1 2 questions or comments? 3 All right. Moving on to what I was promised 4 might be a lively one -- celery powder. This is what again? 5 2026 HANDLING SUNSET REVIEWS: CELERY POWDER б BOARD MEMBER TURNER: So, yeah. For every 7 slam did you think, there's always the one that comes behind 8 that, and that's celery powder. This is a 606 -- this is 9 listed at 606, nonorganic agriculturals allowed. This is 10 just -- you know, this was added to the list in 2007 via 11 petition, largely as a means of providing a means of curing 12 meats -- curing organic meats. But the supply and the means 13 of doing that via organic celery powder has not has not been 14 there over these years. So the material continues to be --15 continues to be kept on the list, and so -- and continues to 16 be a source of great controversy. I think it's something 17 that we've -- we all acknowledge. 18 You know, it lives -- it's camped out on the 19 research priorities. Right? And it was heartening to hear Erin Silva talking in the public comment about research 20 21 that's going on to -- that's -- I would hope has come out of 22 those priorities to be able to fund. I believe she referred 23 to an RAI \$2 million grant that's helping support understanding what those alternatives might be, whether --24 how to get organic sources of celery powder or other 25

1 alternatives that could actually meet the consumers' 2 interest in cured meats that don't use artificial nitrates 3 and nitrates.

The issue that does come up -- and you all 4 5 have read the comments -- the issue that has come up is that, even with the lack of using artificial nitrates and б 7 nitrates, we're still producing a nitrate -- that using 8 celery powder. And so it does concern stakeholders in the community about this material. I mean, we've got, you know, 9 10 feedback from a retailer, feedback from NGOs, feedback from 11 a coalition, all of whom just, you know, probably by and 12 large, support the fact that we've got this -- we've had 13 this research priority and have this research in motion, but 14 still say it's got to go. And I think that's a fair point. 15 And I'm glad to see the research happening at the same time. 16 There are users across the organic community of the 17 material. We've got certifiers and organic businesses, 18 consultants, others who've all spoken in support of the material. I mean, I think one product manufacturer talked 19 about 25 percent of their products containing it --20 containing this material to be able to provide, you know, 21 22 what the consumer is asking for. 23 So it's super complicated and not something that I sort of feel great about the situation we're in, but 24

25 I'm just -- I'll just say I feel -- I'd like to know and I

would, in this next semester, just want to make sure I'm 1 2 understanding that piece of research and the timing -- the 3 timing of it, and sort of when we could expect to see something that could transform it. Is it conceivable that 4 5 if we keep it on the list today, could we -- is it conceivable that it's gone in the next cycle? б So I'll leave it at that for now, and see if 7 8 there's anybody who wants to, kind of, join me in this 9 lovely conversation. BOARD MEMBER JOHNSON: Oh, there are. 10 Thank 11 you. I appreciate you laying out the framework and feedback 12 we got so far. I saw Logan, and then Nate. And I'm keeping 13 a queue. 14 BOARD MEMBER PETREY: Thank you. Okay. So about the nitrates. I'm just curious. So if you'd say, you 15 16 need to eat beets; they're very good for you. They have 17 nitrates in it. And then it's, you know, you don't need to 18 eat bacon because they have nitrates in them. So having nitrates in our diet, I quess, in some ways is good, and in 19 some ways, I guess, can be bad. I don't really understand 20 that very well. 21 22 I did read somewhere it's recommended that you 23 eat -- take in vitamin C with the nitrates. It helps maybe reduce some kind of conversion. I don't know biochemically 24 what that would be. However, I did read that vitamin C was 25

1 important in that, and a lot of fruits and vegetables have 2 the vitamin C component.

Do you know if celery powder has that vitamin C? I would imagine it would, you know, over other sources of curing products.

I would assume so, but I б BOARD MEMBER TURNER: 7 don't know the answer to that, but it's a good question. 8 CHAIR SMITH: Thanks, Logan. Go ahead, Nate. 9 I think -- I'm trying to SECRETARY LEWIS: 10 assemble my thoughts here, but I, first and foremost, would 11 much rather have organic celery powder in my organic bacon 12 than conventional celery powder. So I think there's some 13 sort of consensus around that. And I really applaud the 14 work at UW Madison to sort of move that along. That's 15 really encouraging and just sort of a great example of the 16 whole process working in the way we would love to see it 17 work.

18 The other issue is just related to consumer 19 And I get concerned about centering too much health choice. impacts of food choices in our decision-making. We have a 20 21 lot of unhealthy things that we certify as organic --22 tobacco, alcohol, sugar. Right? So, you know, I -- these 23 are all things we need to weigh. I think for me on this particular issue, what I get uncomfortable with is that you 24 can label bacon with celery powder as uncured. Right? 25 And

so that's a bigger issue than organic has the tools 1 2 necessarily to pull on. 3 So I think that's what I'm kind of centering 4 in my thought pattern -- not that, you know, and again, I 5 realize it's somewhat tangential to the decision around whether or not it should be -- continued to be on 606. I б think once we have enough organic celery powder, the Board 7 8 will never see it again, because we'll remove it from the 9 list and we'll have a bunch of uncured organic bacon with organic celery powder, and we won't get to talk about 10 11 nitrates in food anymore. But maybe we should. 12 So I don't know if that helped anybody, but I 13 think that uncured piece and that labeling requirement is 14 what is of concern for me. 15 CHAIR SMITH: Thanks, Nate. Nate Powell-Palm, and then I'll put myself in the queue. 16 17 BOARD MEMBER POWELL-PALM: I was going to 18 glibly say that this doesn't sound very complicated, Wood, 19 and then Nate just said that and just really threw me off But I would stand by that, 606 seems like one of the 20 there. least complicated pieces to our process, that we need 21 22 certain tools, and it's a list of opportunity. 23 Entrepreneurs go out make it and make it And really, I would echo, I was grateful to hear 24 happen. from Dr. Silva that we're getting closer. But if anybody's 25

118

interested in getting this off the list, it would be 1 2 figuring out how to help her, how to help everyone who's 3 interested in that get the work done and get this product 4 commercialized and available, and then let us know about it. 5 Petition it off with that data. And then, in getting ahead of those steps, the б 7 process is great as it is. Getting ahead of those steps 8 seems like it's a necessary. 9 BOARD MEMBER JOHNSON: Thanks, Nate. Carolyn, qo ahead. 10 11 BOARD MEMBER DIMITRI: So I don't think she 12 needs help. I think she's got a really good team going and 13 she's working with the industry, and I have a lot of 14 confidence in what she's doing. 15 So is -- what is the barrier actually to 16 using -- requiring organic celery powder at this point in 17 time? Is it not enough organic celery? It's too hard to 18 grow? BOARD MEMBER TURNER: I think it's been an 19 organic supply of the material. 20 21 BOARD MEMBER JOHNSON: Wood, is your mic off? 22 Can you repeat what you said? 23 BOARD MEMBER TURNER: It's organic supply. BOARD MEMBER DIMITRI: 24 Okay. And then, I probably should know the answer to this -- like, how do you 25

1 say, like, we want you to use organic, and then like when 2 does the -- is it where it is on the list? Like, how do you 3 move it to another spot, now that, say, the market is 4 changing? I know I should know the answer to that, but it's 5 very complicated.

BOARD MEMBER JOHNSON: Yeah, it's good to do a б 7 quick reminder. So 606 materials are agricultural, and 8 there's a commercial availability clause. So with those 9 materials, we're looking for -- is there anything particularly scary about it? And are we -- is the organic 10 11 supply there yet? So when we have a yes to that, that's a 12 good time to Sunset it, along with considering the other --13 there are other elements Nate wants to amend.

SECRETARY LEWIS: Yeah. I just want to add that, and if you make organic bacon, you have to look for an organic celery powder first, before you're allowed to -- you have to demonstrate commercial availability.

BOARD MEMBER JOHNSON: Yeah. Thank you. Good point.

20Okay. I saw Brian, and then Mindee, and then21me. Brian?

BOARD MEMBER CALDWELL: Yeah. Thanks for all this. This is a complete revelation to me, the whole discussion and the comments. As a person who likes bacon and hot dogs, I was like really happy that I was able to get

uncured organic, you know, versions. And now I'm finding really they are cured. They're just with this -- with, you know, sort of, quote, unquote, natural source. And I just was -- I was amazed because there is pretty clear negative health impacts of highly processed meats like that, and nitrites in particular.

And just another -- just putting that out there that as a consumer, just -- wow. It just -- it's going to change my habits a little bit, I think.

10 But one of the issues with producing organic 11 celery for this purpose, I believe Erin talked about 12 basically quality issues. And I think what they're looking 13 for is really high nitrate levels in the harvested crop. 14 And it's not easy to do that without dumping on the chemical 15 So, anyways -- but I think that's part of it, too. end. So 16 she's trying to figure that out.

I'm not a fan of, you know, of a lot of nitrates in produce. So it's not super exciting to me to have an organic source of this. But, anyways, I think that's what's going on.

BOARD MEMBER JOHNSON: Thanks, Brian. Mindee? BOARD MEMBER JEFFERY: As an entertaining data point, Good Earth takes a lot of pride in saying no to our customers, because there's times when we just can't do something because it's not organic. And we -- this was one

of the times there was -- we knew there was going to be a 1 2 bacon shortage. We knew it was going to be bad. And we 3 really pulled the staff together and did a lot of education. 4 Like I was talking to cashiers about why we 5 don't have organic bacon. And like the whole meat department and the whole grocery department, who normally б wouldn't answer all these questions, like I was ready for 7 8 this one. We didn't want to bring in a natural bacon. We 9 put up all the signs. I talked to everybody on the staff. 10 And I -- we did not win this one. It was a mutiny. Like, 11 the people with their coffee cups not able to get bacon. 12 They -- they wanted their bacon, you know. So I really want to support the continued availability of organic bacon 13 14 because I have seen the mutiny. 15 BOARD MEMBER JOHNSON: I love that, Mindee. 16 Thank you. 17 I was going to share a similar story or reflection that when we're thinking about what materials we 18 19 keep in and what products may allow to be available, the question is what instead. So I remember when I was working 20 21 in certification, we had a -- basically, a sports drink come 22 in. It was organic sugar and a bunch of vitamins. And I 23 took it to my boss, and I was like, "This is kind of pushing 24 the limits of the vitamins" -- we'll talk about later today. "We probably shouldn't certify it." And at the time he 25

1 said, "Well, that product's going to exist. Do you want it 2 to have organic sugar that isn't bleached and treated with 3 all these chemicals and produced with pesticides, or do you 4 want this product?"

5 And that really shifted the way that I think. You know, consumers are going to want their bacon. б Our 7 Easter bunny brought some organic jelly beans and organic 8 gummy bears this year. So there are products that are going to exist in the marketplace and our job is to kind of weigh 9 where that line is. Maybe sometimes the answer is no, 10 11 organic just shouldn't exist at that, and maybe it's --12 there's a little wiggle room.

BOARD MEMBER JEFFERY: Our choice was natural or organic. So we were trying not to bring in a natural product. Sorry if I didn't make that distinction.

BOARD MEMBER JOHNSON: Oh, thank you for clarifying. Yeah. But -- yeah. So cured, uncured, it raises a lot of questions.

And then the other point that came to mind, as we're thinking about production of this high in nitrate celery or chard -- it sounded like is the other option, does someone want to petition a synthetic? Is -- maybe there's -- this is a situation where the synthetic option actually might be preferable. We wouldn't know unless that was in front of us, but it raised that question for me.

1 So, yeah. Great to see the research agenda 2 coming together, hearing feedback on the research, and then, 3 giving us this chance to discuss it.

Nate?

4

5 BOARD MEMBER POWELL-PALM: I just want to pile on to this baking question. We -- if we look back at б 7 research priorities, have we wanted to see more organic pigs 8 being produced? And if we then say, actually, we don't want 9 the best part of the pig to really have a market. I just want to get -- I want to get some clarity here, folks, where 10 11 we're going.

12 And so I think that that's -- I mean, it's again a question of well, not letting perfect be the enemy 13 14 of the good. I want to see organic bacon. I would much --I mean, if we think -- I'll talk about animal welfare 15 later -- if we think about conventional bacon versus organic 16 17 bacon, if there's a little bit of secret nitrates in the 18 organic bacon, I'm going to say that is a world I can deal 19 with, and it's going to be a world that is so much better than the conventional alternative. And so if we see this as 20 a catalyst to keep the organic pig market growing, I'm a 21 22 fan.

BOARD MEMBER JOHNSON: And I was just quickly trying to Google nitrate -- nitrite labeling rules. I think you can't say no. So that would be something, if a consumer

was worried about the presence of nitrites, they'd be 1 2 looking for a label that said that they're not there. And 3 the absence of that label would probably mean that they are 4 in these products where they tend to be used. 5 Any other discussion on this one? This is a really great and interesting one. б 7 Sorry. Just consulting about Okav. 8 lunchtime. I think we're -- we are nearing our planned 9 I think we could probably get through calcium 12:15 lunch. chloride and then, maybe give me a wink if you think we can 10 11 do like ten minutes on L-malic, or if we should save it until after lunch. 12 13 So over to Kyla for calcium chloride. Okay. 14 2026 HANDLING SUNSET REVIEWS: 15 CALCIUM CHLORIDE 16 CHAIR SMITH: Yes. Okay. Calcium chloride is listed at 205.605(a), nonsynthetics allowed. We did request 17 18 a limited scope TR, which we received, I think, in January. It was used in the write-up, but we did have some clarifying 19 So we didn't -- we went back to the -- to the TR 20 questions. writers to ask some more specifics around soda ash, 21 22 utilizing trona ore to produce calcium chloride. It was a 23 little bit confusing. And so we got that information, and we did 24 deem the TR then to be sufficient, but it has not yet been 25

posted on the petition substances database, but my understanding is that it will be soon. So just so you guys are aware of that.

4 Calcium chloride is used in like so many ways. 5 It's one of those big, widely-used things. So it's used as a firming agent, a flavor enhancer, a nutrient supplement, б 7 pH control agent, processing aid stabilizer, thickener, 8 tenderizer, texturizer of meat. The Limited Scope TR was 9 focused on the manufacturing process. So, again, it is currently listed on the nonsynthetics allowed part of the 10 11 605 -- just to make sure that that's real clear.

In the TR, it was identified that there are 12 13 three ways to produce this material from three different 14 sources and processes. The first is from natural brines. 15 The second is from a reaction of calcium hydroxide with ammonium chloride. And this is commonly referred to as the 16 17 Solvay process. And in that section of the TR, and sort of the starting point of that is soda ash, and then goes 18 19 through a chemical process.

Soda ash can also be produced in other ways through chloralkali process or by utilizing trona ore. And trona ore is pretty common in the US to get to soda ash. However, the TR then in the revision clarified that the chloralkali process and the soda ash from trona process do not produce calcium chloride as a byproduct. So that was a

1 really important clarification.

And so this Solvay process is more readily used in the EU, and it's not generally -- calcium chloride is not generally produced from the Solvay process here in the States.

6 And then the third way is through a reaction 7 of hydrochloric acid with calcium carbonate.

8 As far as the environmental concern, this is 9 another one of those materials where mining is the largest 10 environmental concern. It was noted in the TR that it's 11 unlikely to have negative health impacts. We did ask a 12 couple of stakeholder questions, mostly around commercial 13 availability of nonsynthetic processes. This is a 14 little -- those questions were before we got that 15 clarification around the processes that we did receive in the revised TR. And then, we did ask certifiers what kind 16 17 of documentation they were obtaining from manufacturers to verify that calcium chloride is, in fact, being produced via 18 a nonsynthetic process. 19

20 So we got about a dozen public comments. All 21 were in favor of relisting, or really didn't state an 22 opposition to relisting. Sometimes, you know, there's not a 23 clear response. Some commenters responded stating that 24 calcium chloride products currently being used are produced 25 using nonsynthetic processes. Certifiers confirmed that

this is verified through receipt of processing descriptions 1 2 and/or attestations from manufacturers. And then, two 3 commenters stated that we should investigate the presence of 4 calcium bromide and consider an annotation, as applicable. 5 And then, additionally, one commenter stated that since some processes for manufacturing calcium chloride result in a б 7 synthetic product, that it should be annotated to ensure that nonsynthetic processes are being used. 8

9 I think this is redundant since, again, it's 10 on the nonsynthetics allowed list and the verification that 11 certifiers are doing seems adequate, based on their 12 responses. Thanks.

BOARD MEMBER JOHNSON: Thank you, Kyla. Trona ash, it's a new vocab word for me in this one. All very interesting.

Any discussion, questions? I've got a quicker 16 17 hand -- quick. Okay. Over to Nate for L-malic acid. 18 2026 HANDLING SUNSET REVIEWS: L-MALIC ACTD 19 SECRETARY LEWIS: L-malic acid is listed at 205.605(a) as a nonsynthetic, which is the source of a lot 20 21 of the discussion we'll have today on the topic -- or on the 22 material. It's used as a flavor enhancer, flavoring agent, pH control. And we heard from public commenters that it's 23 essential for organic winemaking -- allowed in our by our 24 trading partners and international standards. Pretty benign 25

1 to the environment and human health. So it did not have any 2 major concerns there.

3 Our biggest area of work as a subcommittee on 4 the substance is around its classification. Right now it is 5 approved at, as I mentioned, 605(a), which is a list of nonsynthetics. It appears that much or most or all of the б L-malic acid that is used in food processing is, perhaps, in 7 8 fact, a synthetic substance. It is produced through a twostep fermentation process where the starting material, 9 fumaric acid, is actually a synthetic substance itself. 10 So 11 it -- so if you follow the classification guidance, if you 12 start with a synthetic substance, you can't go back to a 13 nonsynthetic substance. And that's really the -- even if 14 it's an enzyme or a microorganism that chews it up and turns 15 it into something else. And that really is the crux of the issue here and whether or not it should be removed from 16 17 605(a) and added to 605(b), which is the synthetic versions -- or the synthetic list of allowed additives to 18 19 organic food.

And I think there's a lot to unpack there. We have we heard commenters on both sides, some folks who felt like we should remove it from 605(a) and wait for a petition to add it back to 605(b). We have heard that Board should, in its Sunset work, add it to 605(b) and keep it on 605(a), because there may be nonsynthetic versions available, and

that would be what folks should -- we would prefer, perhaps. 1 2 And so, I don't know what to do. And I don't 3 particularly have a recommendation on it. I will say, 4 though, that, personally, I am reticent to set policy in 5 classifications, especially based on individual material Sunset reviews. I don't think that's a good avenue to make б broad-sweeping, precedent-setting decisions around 7 8 classification.

9 So I think the whole discussion around L-malic 10 acid, its classification and its role on the list 11 underscores, perhaps, the need to spend a little more time 12 on classification, particularly of fermentation products as 13 a whole. And within that body of work, identify what the 14 concerns are and which materials on the list might be affected by it, and use a kind of comprehensive approach to 15 16 then adjust where things live on the national list to ensure 17 that there's consistency on classification decisions.

I recognize that synthetic or nonsynthetic, when it comes to a process products formula does not really enter into the calculation or the formula. I also recognize there's consumer preference for less synthetics. That's not really a requirement in our regulation, per se, as it comes to product composition requirements.

The other thing is, I'll recognize that those classifications of substances on 605(a) and (b) are actually used to justify other classifications in crop production, which does have a very dramatic impact on whether or not something is allowed. So we need to approach all of these classification decisions not in a Sunset vacuum, but rather as a comprehensive approach.

And I'm happy to unpack any of that, if folkshave questions.

8 BOARD MEMBER JOHNSON: Thanks, Nate. This is
9 where your depth of expertise really shines. Appreciate you
10 walking us through that. Brian?

BOARD MEMBER CALDWELL: Well, I'm in my fourth year on the Board, and I'm going to show gaping holes in my understanding. But two things -- I think I knew this, but I've forgotten why the listing for -- is it an organic material or just a natural or nonsynthetic, but nonorganic? Is that the issue?

17 Okay. So I got that one. I apologize for 18 taking time on that. But the question -- the second one is, 19 can we actually add something to the list that's not 20 petitioned?

21 SECRETARY LEWIS: Yeah, it was originally 22 petitioned. It was a petitioned substance. So -- is there 23 a petition? Is that the -- there's a petition to 24 reclassify?

UNIDENTIFIED SPEAKER: Yes.

25

BOARD MEMBER CALDWELL: Oh, there is? 1 2 UNIDENTIFIED SPEAKER: Yes. 3 Oh, okay. BOARD MEMBER CALDWELL: Thank you. SECRETARY LEWIS: Thanks for the lifeline 4 5 there. CHAIR SMITH: Call a friend. Yeah. б There was 7 a -- it is currently still with the Handling Subcommittee. 8 So -- but, yes. 9 BOARD MEMBER JOHNSON: Okay. So sounds like we could pick that up this summer, and that'll help maybe 10 11 make the path more clear -- ask us to take a path at least. 12 And, Brian, to your question and point, we 13 spent a lot of time trying to figure it out, and I'm not 14 sure how much it matters in handling, whether it's synthetic 15 or nonsynthetic, but that's the way the list is built, and 16 we want to get things in the right place when we can. And 17 there's no shortage of odd little errors or inconsistencies 18 on this list. And bit by bit, we're getting there. Any other comments, questions? All right. 19 So to be continued on that one in particular. Kyla? 20 21 Oh, sorry. Yup. Oh, yeah, look CHAIR SMITH: 22 at us. Right at 12:15. We are so on it today. 23 We will come back at 1:45. Okay. Yeah. LUNCH BREAK 24 Okay, everybody. Welcome back. 25 CHAIR SMITH:

We're going to get started here. So if you guys could take
 your seats, that would be great.

3 I do have an important announcement, as we are 4 taking our seats, for anybody who would like to know about 5 Oliver's descendants and where they are going to now reside. They are happily in the care of Mark King, a former NOSB б 7 member, who agreed to adopt them and care for them in an 8 organic setting in Indianapolis. They will not be flying, 9 and will -- and there is general relief about this news of the NOSB mascots. So, thank you, Mark King, for giving 10 11 Oliver's descendants a home. 12 Back to Allison. 13 2026 HANDLING SUNSET REVIEWS: 14 MAGNESIUM SULFATE 15 BOARD MEMBER JOHNSON: It just reminded me of 16 something I meant to do yesterday. Oh, well. All right. 17 Back to the world of handling, where we don't have worms, 18 but we have fun things like magnesium sulfate, which is up 19 next. So I'm on magnesium sulfate. This is the third time -- third time's the charm -- to talk about this 20 21 material at this meeting. We covered it in livestock and 22 crops, too. 23 In handling, it's used as a nutrient in salt

23 In handling, it's used as a nutrient in sait
24 replacement products, dietary supplements, a variety of
25 drinks, and as a fermentation and malting aid in beer, which

there's plenty of in this wonderful city.

1

2

3 For handling, it's limited to nonsynthetic sources only. So that means from salt deposits or rocks, 4 5 and it's isolated from open pit mines or salt ponds -- so a bit of distinction from crops and livestock where it's б 7 synthetic. The type and amount of hydration that you have 8 creates different crystalline structures, so it's usually isolated under specific humidity and temperature conditions 9 10 to get the most useful forms. It's allowed as a food 11 additive under the Canadian organic standards, and not 12 addressed in the other international organic standards.

13 There are environmental impacts from mining, 14 although the TR noted that there's not a lot of information 15 specifically available for mining for this material. And I think we mentioned earlier that we've asked our food 16 17 technologists to prepare some more background information on mining to help us improve our depth of review and think 18 19 about how to approach this group of materials that are mined. 20

There do appear to be some alternatives, but they may change the properties of the finished product. So we asked our stakeholders whether -- where the material is currently being used, and whether there are adequate alternatives. We got just a few comments about operations

that do use this material. It's noted to be used as a yeast 1 2 nutrient and a water adjuster. And we didn't receive any 3 information about alternatives. 4 Any questions or discussion? All right. Epsom 5 salts all around. Moving on to Perlite and Kim. б Okay. 7 2026 HANDLING SUNSET REVIEWS: PERLITE 8 BOARD MEMBER HUSEMAN: Thank you, Allison. I do think that in the fall, I'm going to have to provide some 9 10 visuals for some of the materials we are talking about. So 11 I think I pointed at Brian and said, "Hey, I need my 12 sluggo." So that -- we're going to be able to talk about 13 some of these things as like not just the ingredient or just 14 like -- what are these actually used in? Okay. Off that 15 soapbox. Let's talk about Perlite, another important 16 product for growing vegetables, if you're -- like your 17 potting soil, but this is not the intended use in this 18 19 particular spot. So Perlite, under 205.605, under nonsynthetic allowed is used in handling for use only as a 20 21 filter aid in food processing. We did ask for an updated 22 TR, and it was, you know, mostly around just from a 23 manufacturing standpoint and getting an update on, just

overall, from the TAP there just was some limited data --

25 felt like that TR was sufficient. And moving forward, the

use for perlite as a filtering aid, the comments came mostly 1 2 from the wine and -- the wine segment. 3 You know, we've talked about mined products. 4 Perlite is another mined substance and is something that, as 5 our food technologists are reviewing, this will have some б implications from that perspective, too. Outside of that 7 aspect, looking at the public comments, we ended up with a 8 total of -- very few -- call it a handful of public 9 comments, all which supported the relisting and the continuation of our organic wines. 10 11 That's all I've got. Any questions? 12 BOARD MEMBER JOHNSON: All right. Thanks so 13 much, Kim. 14 Next up we have potassium iodide with Logan. 2026 HANDLING SUNSET REVIEWS: POTASSIUM IODIDE 15 16 BOARD MEMBER PETREY: Okay. Can you hear me? 17 Hold on --18 BOARD MEMBER JOHNSON: Sounds good. BOARD MEMBER PETREY: Can you hear me? 19 BOARD MEMBER JOHNSON: 20 Sounds good. BOARD MEMBER PETREY: Okay. Great. 21 All right. 22 Thank you. Potassium iodide, some history. It was 23 initially reviewed by NOSB 1995. Originally listed at both 205.605(a) and 205.605(b), but -- and I think it was in 2011 24 the Board said it was kind of a double listing because it 25

was in the vitamins and minerals listing. So they removed it at 205.605(b).

3 Its use is a -- for dietary reasons. It's used 4 worldwide to fortify food, with the exception of marine 5 fish. And seaweed food generally does not provide enough iodine for the dietary requirements. Many countries have б made efforts to increase iodide intake through 7 8 supplementation in salt, infant formula, and cooking oils, 9 and has nearly eliminated the severe iodine deficiency.

10 Manufacturing: Although nonsynthetic potassium 11 iodide is allowed in organic handling, most of the 12 commercially available is synthetic. Approximately half of 13 the synthetic is sourced from Chile. The remaining -- I 14 think it's from caliche deposits. I don't know what caliche 15 is -- but caliche deposits. Remaining is sourced from This is the US, Japan, Russia, Indonesia. There is 16 brines. 17 no evidence of any commercially significant potassium iodide 18 products available.

Internationally, it's accepted -- or it's listed under Canadian standards, but it doesn't appear in any other standards. The human health, there's -- I don't have human health listed, you know, as far as a toxicity issue, but more so on the deficiency. And that's why iodine is fortified foods and is listed in the vitamins and minerals. All comments were in favor of relisting, but commenter did

mention -- did state that we should have this back on as the 1 2 synthetic list -- the synthetic list. 3 BOARD MEMBER JOHNSON: Great. Thank you, Logan. 4 Thank you again. 5 Uh-huh. BOARD MEMBER PETREY: I have a little feedback. б BOARD MEMBER JOHNSON: 7 Any questions or comments? 8 Okay. Moving right along, pullulan -- pullulan. 9 2026 HANDLING SUNSET REVIEWS: PULLULAN BOARD MEMBER NANDWANI: Pullulan. Right. 10 Thank 11 Thanks, Allison. you. 12 Good afternoon. So pullulan for use in tablets 13 and capsules for dietary supplements, and it is 205.605(a), 14 nonagricultural, nonsynthetic allowed. And it's a technical 15 report available 2018. And subcommittee reviewed the substance. According to FDA, pullulan is a product used for 16 17 tablet coating as an excipient to aid tableting processes in the production of edible films, and as an alternative to 18 19 gelatin in capsule production. In addition to the petitioned use of pullulan as 20 an ingredient in tablets and capsules for dietary 21 22 supplements, edible pullulan films are used to extend the 23 shelf life of various foods. Manufacture: So it is created by microbial 24 fermentation. The microorganism is usually the black yeast-25

like fungus. It's a mold, and it is called Aureobasidium
 pullulans. There are other species also of this black
 fungus. It's Aureobasidium fermentans, as well as A.
 melanogenum. So there are three species listed.

5 International acceptance: It's not explicitly mentioned in Canada or European, and IFORM, Japan. б 7 Nonancillary substances: According to authority TR 8 available, there are no adverse effects known on human health and environmental issues. Public comments: 9 They 10 support relisting of pullulan. One stakeholder urges NOSB 11 to recommend applying the commercial availability clause to 12 the entirety of the substance on 205.605, including 13 pullulan.

14 We asked a question to our stakeholders: Does 15 pullulan have the potential to be produced agriculturally and organically? And, if so, would a commercial 16 17 availability requirement have derived commercialization of 18 organic pullulan? And we heard on other day -- day one from 19 Gwendolyn, one of the stakeholders. She very well, you know, explained about the use of pullulan. And she also 20 21 gave a little bit of background. So she stated that now the 22 organic option of pullulan is available, and the company is 23 manufacturing organic pullulan, but still it has to go 24 through still -- they are doing scale up the production. 25 That's all I have. Thank you.

1 BOARD MEMBER JOHNSON: Great. Thank you, Dilip. 2 Comments, questions? 3 I put this one in the happy category of maybe 4 next time as well. It sounds like there's good progress on 5 an organic option, but it's not quite at scale. б BOARD MEMBER NANDWANI: Okay. 7 BOARD MEMBER JOHNSON: All right. Thank you. 8 BOARD MEMBER NANDWANI: Thank you. 9 BOARD MEMBER JOHNSON: Next up is activated 10 charcoal. Kim? 11 2026 HANDLING SUNSET REVIEWS: ACTIVATED CHARCOAL 12 BOARD MEMBER HUSEMAN: Okay. Activated charcoal, listed at 205.605(b), synthetics allowed. Activated 13 14 charcoal is also referenced for only from vegetable -- oh, 15 sorry -- vegetative sources and for use only as a filtering 16 aid in handling. 17 Activated charcoal is used in processing for 18 mechanical filtration involving the physical separation of 19 suspended solids from liquids passing through the carbon arrayed as a porous media in a column or a bed. 20 It's another form of filtration -- I think we've also talked 21 22 about perlite as a form of filtration. Activated charcoal 23 from a vegetative origin can be made from a large variety of different sources -- different hardwoods, grain hulls, corn 24 25 cobs, and nut shells, to name a few.

We did also receive a TR for the substance, too, 1 2 that was approved. And it was also in conjunction to having 3 an old TAP on file. We asked the question to stakeholders, 4 if there were any industry changes that could challenge the current listing for activated charcoal. We didn't receive 5 any feedback from that particular question. б We had 7 approximately seven -- I think eight total comments that 8 were in support of relisting. And some of those coming from 9 certifiers listing the number of operations that list it in their number of operations that list it for use. That's all 10 11 I have. 12 BOARD MEMBER JOHNSON: Great. Ouestions for Kim? 13 All right. Thanks, Kim. 14 Next up is ascorbic acid with Nate. 2026 HANDLING SUNSET REVIEWS: ASCORBIC ACID 15 16 SECRETARY LEWIS: All right. Thank you, folks. 17 Let me get situated here. Ascorbic acid is listed at 18 205.605(b), also known as vitamin C. Has many important 19 biological functions in the human body. It's widely used in feed, food, and pharmaceutical sectors, a nutritional 20 21 supplement, and preservative, making use of this 22 antioxidative properties. We have heard that it's used in a protein 23 processing and cheese color stabilization and fruit juice, 24 and as an antioxidant and vitamin C source. And it's 25

141

important to note, as an ingredient, there is no problem with this substance being used in that manner. The nationalist criteria -- the nationalist criteria is prohibition on preservatives and color. And functional effects to recreate flavors and colors only applies to adjuvants and processing aids. So as an ingredient, that's a permissible use.

8 It's typically produced through a fermentation 9 product, but then goes through a final step that renders it 10 synthetic -- so yet another synthetic fermentation product. 11 So maybe adding a little more case to needing to add some 12 clarity to classification of fermentation materials.

Public commenters confirmed what they have stated in the past, that it remains essential for organic processing and is widely used. And beyond that, there's no additional rationale for considering removal from the national list.

BOARD MEMBER JOHNSON: Thanks, Nate. Questions,comments?

20

Brian?

BOARD MEMBER CALDWELL: Thanks, Nate. It just occurred to me that, of course, there's very likely going to be a lot of pressure to produce vitamin C with excluded methods. But the fact that there's a really big, strong human use for it makes me optimistic that maybe livestock

sources of vitamin C will be preserved that will not be GMO 1 2 as well. So that's -- I hadn't thought of that until just 3 Seems like a good thing. this moment. 4 SECRETARY LEWIS: Yeah, agreed. 5 BOARD MEMBER JOHNSON: Thank you. All right. Moving right along. Collagen Gel with Kim. б 7 2026 HANDLING SUNSET REVIEWS: COLLAGEN GEL 8 BOARD MEMBER HUSEMAN: All right. Apparently, us Americans like our bacon and we want our sausage, too. 9 So 10 collagen gel, which is listed at 205.605(b), synthetic 11 allowed. Collagen gel is used as a casing. It may be only 12 used when organic collagen gel is not commercially 13 available. So here we are again with, yes, but. So 14 collagen gel acts as an edible film in meat products, such 15 as sausages, as an alternative to casings, which is also -- which is listed at 205.606(b). 16 17 Collagen casings or collagen gel protects the 18 meat product from oxidation and discoloration by acting as a 19 semipermeable membrane for gases, moisture, and other solvents. The casing also provides more desirable bite and 20 texture to meat products, as well as aids and additional 21 22 flavorings of the product. It can be more affordable, 23 efficient, and sanitary when also looking at other increased opportunities to produce a larger variety of organic meat 24 25 products.

We have a debate through the manufacturing process, collagen is a natural animal protein found in skin, bones, muscle, and connective tissues that is isolated mostly from bovine or porcine sources at USDA inspected facilities. The animal-based collagen source is partially hydrolyzed through enzymatic thermal or acid treatment from meat processing byproducts to cleave the protein.

8 I was just -- took me back to my childhood when 9 we would go to the butcher shop and get our package of 10 casings to take home and make sausage. So anyway -- sorry 11 about that.

According to the TR, collagen gel is comprised of 12 13 3 to 4 1/2 percent collagen, and then the rest of it -- less 14 than 3 percent cellulose, and then the rest of it made up of 15 Cellulose is currently approved for use as a water. 16 synthetic substance in regenerative casings, extruded collagen casings that is dried prior to use, and as an 17 18 anticaking agent, nonchlorine bleach, and filtering aid for 19 the process product, organic or made with organic.

We had another discussion around the viability and the progression of marine materials being used for collagen gel. And so there's a component in here that, due to the dark coloration and some of the odors that are difficult to overcome, that that market really -- that we could find -- that I could find -- had not made much

progress; and that sources are not well defined and may vary from bones and skins to include viscera -- the gross stuff. At the time of the technical review, marine sources of collagen remained largely a research debate.

5 So do you have questions on that, Nate? So we had asked to the community, is there a method of production б for nonsynthetic collagen gel? And then, what about 7 8 commercial availability from the organic bovine? And then, maybe a shoutout to potential revenue stream for organic 9 10 hogs to understand a little bit more about commercial 11 availability. And then, just to ask about advancements of 12 collagen gel in the marine space, to which we did not receive any answers. However, there are a handful of 13 14 stakeholders who did respond that were supportive of 15 relisting collagen gel.

BOARD MEMBER JOHNSON: Thanks, Kim. Nine days left to comment on the pet food rules. Maybe fish scented sausage could be a thing? Nate had a comment.

19 SECRETARY LEWIS: Thanks for the bait, Kim. Just to put on the record that wild fish or people in Alaska are 20 21 interested in promulgating a wild seafood standard expressly 22 to provide organic collagen to the body care side of things. 23 I don't -- I think they're still struggling with that fishy smell and taste and coloration, but I just wanted to add 24 that to the conversation in this context. 25

1 BOARD MEMBER JOHNSON: Interesting. Nate Powell-2 Palm? 3 BOARD MEMBER POWELL-PALM: Kim, do you have an 4 idea of who we should reach out to, to try to get more 5 information on number two -- or again, I'm not sure if our б product is commercially available? Like, who would have that data? 7 8 BOARD MEMBER HUSEMAN: Your -- well, your organic harvesting facilities --9 10 BOARD MEMBER POWELL-PALM: Okav. 11 BOARD MEMBER HUSEMAN: -- would be able to give 12 us potential headcount. What you run into when we talk 13 about commercial availability of body parts of animals, and we talk about this, too, in the poultry space is, once the 14 15 product gets to a point where the meat has been harvested in 16 an organic fashion, the cost to retain the remaining product 17 in organic fashion without a market available for it becomes 18 part of a conventional product line. And I think we can ask 19 those questions, but I think we need to ask ourselves and dig deeper into when we talk about that commercial 20 availability, can we -- is it a -- can we actually isolate 21 22 that for commercial availability? 23 BOARD MEMBER POWELL-PALM: Thank you. BOARD MEMBER JOHNSON: Any other questions or 24 discussion? Great. Interesting one. Thanks, Kim. 25

2026 HANDLING SUNSET REVIEWS: NUTRIENT VITAMINS
 AND MINERALS, FERROUS SULFATE
 BOARD MEMBER JOHNSON: All right. I'm next up
 with two, and I'm going to switch the order. So nutrient
 vitamins and minerals, and then, ferrous sulfate will make
 more sense after we go through the vitamins. And I'm going
 to jump in here.

8 Okay. So this one requires a bit of a journey 9 and some history. The current listing is nutrient vitamins 10 and minerals in accordance with some numbers and letters, 21 11 CFR 104.20, which is the nutritional quality guidelines for 12 foods. So the current listing basically says, you can add 13 vitamins and minerals to food, in accordance with the Food 14 and Drug Administration's fortification policy. That policy 15 lays out principles that are intended to serve as a model for the rational addition of nutrients to food and promote a 16 17 balanced and nutrition food supply, while avoiding over or under fortification of consumer diets. 18

So it goes into some situations where it would be appropriate, including where there may be dietary insufficiency to restore nutrients lost in storage or processing, to avoid nutritional inferiority of a food that replaces a traditional food, and as well as where it's required by regulation.

25

It does not encourage indiscriminate addition of

nutrients to food, and it's not appropriate to fortify fresh produce, meat, poultry, fish products, sugar, or snack foods, such as candies or carbonated vegetables. And manufacturers are urged to follow these principles.

5 So how did we get here? Originally, when the NOSB recommended to add nutrient vitamins and minerals, the б Board wanted to have this listing include the annotation 7 8 accepted for use in organic foods for enrichment or fortification when required by regulation or recommended by 9 an independent professional organization. That never made 10 11 it into the rule. We have the rule that currently 12 references the fortification policy I just described.

There have been over the years a number of 13 14 proposals to align the listing with the original recommendation to address concerns about fortification of 15 infant formula, and to consider some nutrients that are sort 16 17 of in a gray area. So the last time this came up for Sunset in the 2019 recommendation, they -- so I went through some 18 19 of this history and said that in 2011 when the Handling Subcommittee proposed to change the annotation at Sunset, 20 21 they received about 2,000 comments against it. And the 22 subcommittee withdrew the proposal prior to the April 2011 23 NOSB meeting. And at that time, the Board supported relisting with the existing annotation. 24

25

So as far as I can tell -- and I'm sure some of

the veterans in the room will have more nuance on this -- but last time we said, okay, let's just leave it alone. So the review this time around, I was trying to assess whether that's still the right place to land.

5 The TR deals with the world of vitamins and minerals, which is huge. They're made in every way you can б There are excluded methods, concerns for some of 7 imagine. 8 them. There are accessory nutrient concerns for some of 9 But I think at the end of the day, most of the use them. 10 that falls under this listing is nutrients that have to be 11 added to food. So like milk has to have some vitamins in 12 it. Pasta has to be fortified. In lots of situations, 13 these are places where there's not a lot of room for us to 14 say, no, don't do that.

15 So I think in that world, it's kind of Okay. to 16 group them all together, because we don't have a lot of room 17 to move. But we did ask some questions about the current 18 state of things, including how nutrients and vitamins and 19 minerals are being used, if there are any issues here still.

The only thing that stood out to me in public comments is DHA, which takes us to our next history lesson or next phase in time. So there are some outstanding actions that are just sitting there. There was a 2016 Handling Subcommittee discussion document that outlined some options. There was a proposed rule in January 2012, which

would have changed the annotation to reference the vitamins
 and minerals identified as essential in another section of
 the code, and two other sections for infant formula.

So that is out there -- neither gone nor done, but there was an interim rule published in September of 2012 that essentially preserved the status quo until we figure out what to do.

8 So right now we have a, I think, a generally 9 acknowledged imperfect annotation that's mostly working 10 fine, except DHA, I think, falls into the gray area. It's 11 currently being used. The Board recommended adding it to 12 the list, and it was never added. So it's being allowed; 13 it's in the gray area. No one has fixed it.

14 We could continue to not fix it. Doesn't seem to 15 be a huge deal. We didn't get a lot of comments -- just a 16 few, or we could try to bring this back to life. I lean 17 slightly toward testing out our new annotation process to bring this back to life and just get some closure. 18 We did 19 receive some comments with concern that things are coming in around the edges; that there's still lack of clarity. 20 We 21 heard from certifiers who are using different versions of these various rules and recommendations that have existed 22 23 and are still out there. So I'm curious to hear from you 24 In my mind, the best options from here are do what all. they did in 2019 and just kind of leave it alone and say, 25

you know, there hasn't been enough public will to push 1 2 forward on this. Maybe we just don't pick that battle 3 today, or try to bring in the annotation that was in the proposed rule that was never finalized, which essentially 4 limits fortification to essential -- like to required 5 nutrients. And if we did that, I think we would probably б 7 also want to recommend that DHA be moved along and added to 8 the list, so that that is clear.

9 And I don't know -- I don't know if you folks 10 weigh in if I get this wrong, but DHA in the petitioned 11 materials database says closed, and references the interim 12 rule that preserved the status quo. So it's like, okay. 13 We got a good recommendation and we are not dealing with it 14 anymore because we're in this kind of limbo period, but 15 there's no plans to move it forward.

Okay. So I see puzzled faces which means that was not the epitome of clarity. Welcome questions and discussion. Nate?

19 SECRETARY LEWIS: Can you describe, if you can, 20 the risks in -- that would -- that are potential for going 21 forward with a parallel motion and annotate about required 22 by law with the -- and then pushing the DHA forward? That, 23 sort of, second approach, what are the risks there? That's 24 helpful for me, I think.

25

BOARD MEMBER JOHNSON: I think the main risk is

everyone gets angry again. I was in certification when this 1 2 all kind of bubbled up in the -- I don't know, 20-naughts to 3 early 2010s. And it was very controversial. But as far as 4 I can tell, looking back through the history now, we did 5 reach some resolution and it just never made it into the regulations. So I think bringing it back and doing cleanup б 7 would at least save the next Board in five years from going 8 down this rabbit hole again, and bring some more consistency 9 to the certifiers.

10

25

Okay. Kyla, and then Wood.

11 CHAIR SMITH: Yeah. Did I hear you correctly in 12 the history lesson that you said there was like 2000s 13 and -- there's a bunch -- a bunch of comments that were --14 and was -- and that was to the 2012 proposal that was -- can 15 you repeat that part? Sorry.

BOARD MEMBER JOHNSON: Yeah. And my timing is fuzzy on this. So looking back at the Board's recitation of this history in 2019 -- this is the source -- in 2011, when the Handling Subcommittee proposed changing annotation at Sunset, they received about 2,000 comments against it. So they withdrew the proposal.

I'll have to go digging here to see what that proposal was.

24 CHAIR SMITH: Okay.

BOARD MEMBER JOHNSON: I think -- I'm not sure

how it aligns with the interim election. 1 2 CHAIR SMITH: The -- yeah. So the proposed rule. 3 BOARD MEMBER JOHNSON: Oh, thank you. See, this 4 is my recollection. 5 Seemingly something failed in the CHAIR SMITH: proposed rule, otherwise it would have made it to final б 7 rule, right? And so I guess I'm -- if we're just 8 reproposing the same annotation, it would seem like it may 9 have the same fate or I'm -- like, anyway. So then, I'm like, what's the point? I like cleanup. I think closure's 10 11 good. And I'm like -- are we -- yeah, I don't know. Are we setting ourselves up for failure? 12 13 BOARD MEMBER JOHNSON: I think what appears from 14 the relatively few comments this time to be true is that 15 things have kind of settled down and people are using what 16 they need -- feel that they need to use. And so we could 17 make sure that the rule actually matches that. But, yeah, that's a fair risk to name. 18 19 Wood? BOARD MEMBER TURNER: I was going to ask this 20 21 during other business, but we might as well do it now. What 22 did -- can you remind me about what the annotation process 23 is now? What have we agreed on? I was going to ask you, Kyla, but I'm putting you in the hot seat, Allison, because 24 I can't remember how it works. I can't remember how it 25

1 works.

2	CHAIR SMITH: Building the plane as we fly it is
3	the process. We would bring a parallel motion. So we would
4	if we vote if we have to vote on this in the fall
5	to retain the listing. Simultaneously, we could bring a
6	parallel proposal with an annotation that we would also vote
7	on, so that then if that didn't make it through the
8	rulemaking process, we would still have the listing.
9	BOARD MEMBER JOHNSON: Nate?
10	SECRETARY LEWIS: I just had another question
11	about the timing on the, sort of, the renewal in 2012s, the
12	sort of the raucous times, as they say. Do you maybe
13	this is more of a program question, but did the that was
14	before the Sunset the process for Sunset was clarified.
15	And I wonder if that was an element in the milieu, so to
16	speak, that occurred. Do you have any insight into that or
17	are we just kind of spit balling?
18	BOARD MEMBER JOHNSON: I think that's a it's
19	plausible that yeah, that we didn't have really a system
20	for doing this type of thing cleanly. So could it's
21	probably the worst test case honestly, but we could try it
22	anyways. I do I worry. So one of the things in that
23	I omitted from that brief history or long history is that
24	the NOP had a reversal interpretation that was really hard.
25	They had interpreted the current annotation to allow

1 accessory nutrients, like DHA, ARA, and then talk to FDA,
2 and they said, no, that's not actually right. But by then
3 everyone is using these materials in reliance on the
4 previous interpretation. So there was some messiness around
5 how to get out of that.

6 So I do worry a little bit that there's still a 7 vulnerability for companies that are using these materials 8 that are in the gray area. And I imagine that certainty 9 would be beneficial. But no one's asked us about it 10 recently, so maybe they're fine.

11

Carolyn?

12 BOARD MEMBER DIMITRI: I mean, what I have found 13 is whenever there's like a mysterious thing that I don't 14 know if either you ask Jenny and she knows or I ask, you know, like someone who's been involved in the industry for a 15 16 really long time, like beyond pesticides or something. They 17 always seem to say, oh -- I'm not suggesting that they're 18 the right person, but someone knows the answer to why that 19 didn't happen. And I feel like maybe you need clarity on 20 that.

BOARD MEMBER JOHNSON: Okay. Any other comments, discussion? I can commit to doing a little bit more digging on the why's and what ifs.

24 CHAIR SMITH: Yeah. I was just going to say, I 25 think we have some things to talk about in handling, and we'll -- yeah. I don't know. It seems unclear at the
 present time.

BOARD MEMBER JOHNSON: Yeah. Okay. So in the meantime, anyone listening out there who has a stake in these materials, please send information our way and expect to have some more discussion in the fall.

So then, ferrous sulfate is much more 7 Okav. 8 straightforward, except that it's odd that it's listed by 9 itself, although this is actually for, I think, a pretty good reason. Ferrous sulfate is listed for iron enrichment 10 11 or fortification of foods when required by regulation or 12 recommended by an independent organization, which is 13 basically the original annotation that NOSB had recommended 14 for all nutrient vitamins and minerals.

15 It's covered under the same TR and original TAP as nutrient vitamins and minerals, but it -- this is about 16 17 supplementation, especially for flour, cereal products, that make an optional enriched claim, and also in baked products 18 19 and infant snacks. It's made by reacting sulfuric acid and It's listed under the Canadian organic standards for 20 iron. use where required or allowed. It's basically the same for 21 22 the EU. And it's not listed individually on Japan's or 23 IFORM's standards.

24There are some encapsulation materials that are25sometimes used to prevent iron from creating oxidation

reactions that could mess up the attributes of a product or 1 2 have undesirable effects. Usually, hydrogenated vegetable 3 fat with lecithin is an optional ingredient. And this is really listed individually because iron deficiency is a big 4 5 problem, but oversupplementation with iron can also make you So this one was pulled out because of that sort of б sick. 7 like, particular risk of oversupplementation. Could throw 8 them all back together, but this one seems to function and 9 have some benefit to the individual listing. 10 Didn't get any particularly excited comments on 11 this one. Any additional discussion? 12 All right. Next up, then, we have Logan on 13 potassium phosphate. 14 2026 HANDLING SUNSET REVIEWS: POTASSIUM PHOSPHATE 15 BOARD MEMBER PETREY: Can you hear me all right? Can you hear me all --16 17 BOARD MEMBER JOHNSON: Sounds good, Logan, yeah. 18 BOARD MEMBER PETREY: Okay. Thanks. Okav. 19 Potassium phosphate: So this use, it's to control pH in milk and dairy products. Potassium phosphate interacts with 20 milk proteins as an emulsifier preventing the separation of 21 22 fat and water in cheeses. Manufacturing of this is the 23 neutralization of phosphoric acid with potassium hydroxide. Phosphoric acid is produced by treating phosphoric rock with 24 Internationally, it's accepted on the 25 sulfuric acid.

Canadian standards but it's not listed in the others. Human health concerns: We asked if there was any link to phosphates in processed foods and some health concerns, but we did not receive any new information, and all the comments were in favor of relisting this material. Are there any questions?

BOARD MEMBER JOHNSON: Any questions ordiscussion? Short and sweet. I love it. Thanks, Logan.

9 Okay. And then, sodium acid pyrophosphate, also 10 with Logan.

11 2026 HANDLING SUNSET REVIEWS: SODIUM ACID PYROPHOSPHATE 12 BOARD MEMBER PETREY: Another short and sweet 13 Okay. And so this is also listed at 205.605(b), one. 14 synthetics allowed. Its usage -- there's multiple uses, but 15 for organics it is only -- it can only be used as a leavening agent for baked goods, but in other industries it 16 17 can be -- also, it's the chelating agent to maintain the appearance of cooked or uncooked produce, and emulsifying 18 agent and stabilizer in cheeses. Prevents struvite in 19 canned tuna, and securing accelerator in processed meats --20 but, again, only as a leavening agent. 21

The manufacturing of this product is sodium carbonate reacted with phosphoric acid and heated to 2020 degrees Celsius. Internationally, again, it's listed in the Canadian standards, but not explicitly listed in other standards. Also, the human health, again, we asked for phosphate studies linking to health concerns and did not receive any. And no new information. Again, all comments were in support for relisting.

BOARD MEMBER JOHNSON: Excellent. Thank you.Any questions or comments on this one?

7 All right. Thank you. On to tocopherols with8 Kyla.

9

2026 HANDLING SUNSET REVIEWS: TOCOPHEROLS

10 Yes. So tocopherols are currently CHAIR SMITH: 11 listed as a synthetic at 205.605(b). They are annotated to 12 be allowed to be derived from vegetable oil when rosemary 13 extracts are not a suitable alternative. So synthetic 14 tocopherols are currently permitted for use in organic 15 handling and processing; act as an antioxidant ingredient in 16 foods. Tocopherols occur naturally in a variety of plant 17 species, such as cereal grains, oil seeds, nuts, and 18 vegetables. Tocopherols are separated from other compounds 19 in the oil distillate by multiple extraction and refining 20 steps.

Production methods for tocopherols are very complex and can involve variations in solvents, acids, and bases, and additives, such as stabilizers. And this can make classification challenging and complicated. There are several ancillaries that can be used as well. Those were

1 all listed in the 2015 TR.

As far as environmental impact goes, there could be potential contamination as a result of the manufacturing process of the tocopherols, if certain solvents or chemicals are used, and if these are released into the environment through waste streams. And then, could be a contamination source. There was no stated health -- human health impacts.

8 We did ask for a limited scope TR. It was not 9 received in time to be included in the meeting documents. 10 However, it is now available on the petition substance 11 database. We did ask some questions of stakeholders, namely 12 around adequate and suitable supplies of nonsynthetic 13 tocopherols to meet commercial needs. And then, also, 14 whether or not there is organic tocopherols commercially 15 So, again, just a reminder it's listed as a available. 16 synthetic. Anyway, so we're just exploring reclassification 17 or what that could potentially look like.

We've received about a dozen comments, and most 18 19 were in favor of relisting or, at least, did not state an opposition to relisting. It is pretty widely used. 20 Some 21 commenters did report that they don't use rosemary because 22 of the flavor it imparts in their product. We had some 23 commenters again ask us to investigate about the availability of it natural tocopherols. And if we found 24 that those were available, then to have -- do a, you know, a 25

1 relisting on 605(a) versus on 605(b).

2 And this is -- anyway, there's a lot to sort of 3 unpack in the TR, and this is one of those things where it's 4 like, do we, you know, annotate versus commercial 5 availability or move the listing through Board action, or is that better to come through a petition? So that's just one б 7 of, sort of -- an opportunity is out there for a petitioner 8 to initiate that action, and just one of those ones where 9 we're like, what -- you know, is that better? How should we 10 handle that? That's all I got. 11 BOARD MEMBER JOHNSON: Thank you. Questions or 12 comments for Kyla? 13 All right. Next up is fish oil. Dilip? 14 2026 HANDLING SUNSET REVIEWS: FISH OIL 15 BOARD MEMBER NANDWANI: Okay. So fish oil is 205.606, nonorganic agricultural allowed. And 2015 TR is 16 17 available which gives a lot of details on its uses and also 18 the industrial process and other information. Basically, 19 fish oil is used in organic processing and handling as an ingredient to increase the content of omega-3 fatty acids. 20 21 And that helps, actually, you know, in foods to benefit 22 human health by contributing to healthy brain development 23 and reducing risks of cardiovascular disease, diabetes, et 24 cetera. It is also used in aquaculture as a feed 25

supplement for farmed fish. In addition to aquaculture, 1 2 fish oil is used in feed for livestock, such as pigs, 3 cattle, poultry, and sheep. Manufacture: It is produced 4 from fish byproducts or from fish that are specifically 5 caught for the purpose of making fish oil. And between 44 pounds -- in the folder it says 20 kilograms, so I converted б 7 to -- you know, we use pounds here that -- so 44 pounds to 8 176 pounds of fish oil can be extracted per ton of fish 9 waste.

10 Steps for fish oil extraction -- it's a little 11 bit in detail. I won't go through all the detail, but, 12 basically, it's raw fish or fish parts are obtained, and 13 they go through this process, steaming and drying. And 14 ultimately, it makes the fish meal. And then, fish meal is 15 converted. Another process by hardening, which is performed 16 to further purify the oil.

International acceptance in Canada and European economic community, it is listed. Fish oil is another, you know, organic fish or fish products. It's listed there, but no explicitly mentioned in Codex, IFORM, and Japan agriculture standards.

Ancillary substances: None. And according to 23 2015 TR, there are no expected significant human health 24 impacts or remarkable environmental issues mentioned. 25 Public comments: Support continued listing of fish oil.

And we asked a question to our stakeholders, what concerns 1 2 on environmental issues be considered for fish oil? And I 3 would like to read here the paragraph, and I'd like to acknowledge prior NOSB recommendation. And according to 4 5 that -- I mean, that amend the annotation on fish oil restriction sources to fishing byproducts only, and to б 7 fishing industries that need third-party sustainability 8 standards.

9 At the fall 2023 NOSB meeting in Providence, 10 Rhode Island, NOP indicated that they would not be moving 11 forward with that recommendation. Some commenters continue 12 to note that moving forward with the organic aquaculture 13 standard and developing an organic production standard for 14 wild caught fish would facilitate the production of certified organic fish oil and could alleviate concerns 15 about overfishing and toxic contaminants present in fish 16 17 oil.

18That's all I have. Thank you.

BOARD MEMBER JOHNSON: Kim?

19

20 BOARD MEMBER HUSEMAN: I just want to point out the statement here that says that fish oil is fed to fish 21 22 because of a deficiency of plants and animals. I think 23 there's a soybean meal -- you know, soybeans that we could add to this. My point to that is we can feed fish oil to 24 fish, but we can't feed feather meal to chickens. 25 Just.

something to ponder, if anybody wants to take the bait. 1 2 BOARD MEMBER JOHNSON: Interesting. Yeah. 3 Brian? 4 BOARD MEMBER CALDWELL: I'm not going to rise to 5 that bait. So, Dilip --BOARD MEMBER NANDWANI: Yes. б 7 BOARD MEMBER CALDWELL: -- I'm sorry, I didn't 8 understand. Did you say that fish were specifically caught 9 for fish oil or were not? 10 BOARD MEMBER NANDWANI: Yes. 11 BOARD MEMBER CALDWELL: They are? 12 BOARD MEMBER NANDWANI: So, yeah. I read that 13 also, you know. But Kim also mentioned and you are saying 14 so. That's true. 15 BOARD MEMBER JOHNSON: I think there was at least 16 one commenter who said that it's only a byproduct. Ιf 17 someone else remembers, it would be helpful to corroborate. 18 BOARD MEMBER CALDWELL: So, I'm sorry. You're saying -- right. It's only what? 19 BOARD MEMBER JOHNSON: That there's no fishing 20 solely for the purpose of creating fish oil -- that you'd be 21 22 fishing, and that fish oil would be a byproduct. 23 BOARD MEMBER CALDWELL: Ah, good. BOARD MEMBER JOHNSON: I think a commenter said 24 that -- 85 percent sure. 25

BOARD MEMBER NANDWANI: Yeah, it is from the 1 2 byproducts or as, you know, from the fish, but they are 3 specifically, you know, for the purpose of making fish oil. 4 So to my knowledge, what I read in TR, that not all the fish 5 they use for, you know, for fish oil production. There are certain types of the fish they use it for. б 7 If anyone wants to jump in, welcome, but that's 8 what my understanding is reading the TR. 9 BOARD MEMBER JOHNSON: And we were trying to retrace the marine materials recommendation this morning as 10 11 _ _ 12 BOARD MEMBER NANDWANI: Oh, that's right. 13 BOARD MEMBER JOHNSON: -- maybe you were here after that all happened. I don't know if someone --14 15 BOARD MEMBER NANDWANI: Correct. BOARD MEMBER JOHNSON: -- who was here then could 16 17 speak to that. It came up in comments that if the recommendation that had moved had gone forward, it would 18 19 have been relevant for these materials. But we did hear from NOP at last meeting that it's not moving forward. 20 21 BOARD MEMBER TURNER: I think it was crops -- I 22 think it was crops, but I do -- I am noting all the comments 23 that are made on it. I don't want to be -- I don't want to be the final word on that. I do want to check the 24 background on that, but I believe it was crop fertility 25

specific. So -- but the community, as we saw in the notes, 1 2 a lot of folks are also confused -- were confused about 3 that, and confused about the fact that it hasn't -- nothing was done with that proposal. So, anyway. 4 5 BOARD MEMBER JOHNSON: Okay. I see a path -б Oh, Amy. Thank you. VICE CHAIR BRUCH: Oh, yeah. Allison, sorry. 7 8 Yeah, actually, Dilip, I appreciate you bringing up the 9 discussion that we had in Providence under crops last year. It was under my substance, and I'd be happy -- I have a kind 10 11 of a thorough review -- I'll be happy to share kind of that 12 history with you. I wasn't a part of the original 13 discussion, but it was something we meditated on and tried 14 to elevate in crops as best as we could. But, yeah, you summarized it well, but I'll give you the background 15 16 information that we deliberated on in crops for your future 17 discussions and handling. Okay? 18 BOARD MEMBER NANDWANI: Thanks, Amy. VICE CHAIR BRUCH: Yeah, no problem. 19 Looking forward to working with you, Dilip. 20 21 BOARD MEMBER NANDWANI: Sure. 22 BOARD MEMBER JOHNSON: Okay. Thank you. So I 23 think the long story short there is the recommendation we learned last time is not moving forward. So it's still 24 continuing to come up in comments. There's interest in 25

seeing restrictions around what type of fish are feeders for this material, but we don't really have an avenue to move that currently with the NOP's decision to close that item. But we could always bring it back.

5

б

7

Any more discussion, comments on this one. Okay. Thanks to the -- gelatin. Kim? 2026 HANDLING SUNSET REVIEWS: GELATIN

8 BOARD MEMBER HUSEMAN: All right. Gelatin, 9 listed at 205.606, nonorganic agriculture is allowed. 10 Gelatin casings and collagen gel get lumped together, at 11 least, in particular, in the 2019 TR. The use for gelatin has a wide range. It's used for clarification or as a 12 13 finding agent in teas, juices, and wines. It's used as a 14 stabilizer, texturizer, thickener, and in capsules. It can 15 be an ingredient or a processing aid in candies. The Gummy Bears -- I think we all had some Annie's Gummy Bears --16 17 could potentially have gelatin -- desserts, puddings, marshmallows, dairy products, yogurts, sour creams -- the 18 19 list goes on to also include cosmetics.

Collagen is also on the national list as a fish collagen and is the native form of gelatin and, chemically, the two are indistinguishable -- just a note.

Gelatin can be made from many different sources of collagen -- cattle bones, hides, pig skins, and fish are the principal commercial sources. Gelatin may be prepared in a way that is more like cooking and could be considered nonsynthetic. However, gelatin may also be processed in a way that would render it synthetic.

All manufacturing operations extract and hydrolyze collagen found in the animals that we just discussed, with subsequent purification concentration and drying operations. Some are simple; some are complicated.

8 We asked stakeholders if there were sufficient 9 commercially available organic gelatin, and then maybe what 10 gaps persist that necessitate gelatin to be on the national 11 list. I think we looked across the uses and the wide scope 12 that gelatin is in the organic space. I think we will run 13 up against some complications based off of the -- like the 14 type of use. I think we've seen it in some other products 15 where maybe some practices require, you know, certain forms of gelatin versus another. So I think based off of the 16 17 nonanswers that we got from the community, but the overwhelming support, I would say, you know, we're kind of 18 19 headed in the direction of this being a pretty simple, realistic. 20 21 BOARD MEMBER JOHNSON: Great. Thank you, Kim.

22 Questions, discussion? 23 All right. Hang on. Three more. We're getting

close. Stay with us.

25

Okay. Next up, orange pulp dried. Kyla?

Burke Court Reporting & Transcription (973) 692-0660

168

2026 HANDLING SUNSET REVIEWS: ORANGE PULP, DRIED 1 2 CHAIR SMITH: Yeah, orange pulp. This is a an 3 So orange pulp -- dried orange interesting one, actually. 4 pulp is used as a moisture retention agent and fat 5 substitute in baked goods, pastas, salad dressing, confectioneries, processed cheese spreads, beverages, meat б 7 products, and frozen foods. Dried orange pulp is a 8 byproduct of the orange juice industry and is manufactured 9 from washed orange peel core and rag, the membrane remaining 10 after juicing. The pulp is mechanically dewatered, 11 stabilized with heat, dried, and milled ground into a The noted concern related to the environmental 12 powder. 13 impact is related to the conventional pesticides used to 14 grow oranges that are then used to make this dried orange 15 powder.

And we asked some stakeholder -- or some 16 17 questions around sufficiency and suitable supplies of 18 organic orange pulp and what are the barriers to overcome 19 like that limit in organic production of dried orange pulp, and what specific products would be in jeopardy if this were 20 21 to be removed. We received eight comments. Some were in 22 favor of relisting; some were opposed. From the certifiers 23 that responded, it seemed like this is used not widely. There was a couple of operations. 24 25

We didn't really get a response to the first

question that we asked there about, like is there enough 1 2 suitable -- sufficient and suitable supply, but we did get 3 some responses to the second part around the barriers. So one commenter said, securing and maintaining segregation of 4 5 organic source materials has often been cited as the main contributing factor to insufficient supply, in addition to б 7 the ability to use nonorganic forms at low levels in 8 production formulations.

9 And another commenter said that processing plants 10 for drying the pulp were located too far away from the fresh 11 processing plants to ensure freshness of the product. In 12 subcommittee we talked about that drying process. And it 13 appears that it is patented. And so we weren't sure if that 14 was also playing into the ability for new processing 15 facilities to be built closer to fresh processing plants.

16 Also, in searching in OID for organic forms of 17 orange pulp was a bit challenging. So depending on word 18 combinations, there were some products that came up if you 19 searched for, like, you know, orange powder or whatever. So that is one thing that I wanted to follow up with some 20 certifiers to see if the specific products that were listed 21 22 in OID are the same thing as this material, or if it's 23 different, or whatever. And also, with the certifiers that responded, maybe just following up directly with them, 24 having conversations on what types of products those are 25

being, you know, used in and -- anyway, just looking at 1 2 different alternatives. 3 So this one was tricky for us actually, 4 like -- yeah. Not sure about this one. 5 BOARD MEMBER JOHNSON: Thanks, Kyla. Questions, discussions? Kim? б BOARD MEMBER HUSEMAN: Yeah. I think it's more 7 8 of a discussion. I was just looking, from an international 9 acceptance, that's not specifically listed, other than no 10 allowance up to 5 percent of nonorganic content. It's just 11 something, I think, to consider. I think this summer the 12 subcommittee will have a good robust dialogue on this one 13 for sure. 14 BOARD MEMBER JOHNSON: Anyone else? 15 BOARD MEMBER CALDWELL: Yeah. Thanks, Allison. 16 It just seems like this might be a real good candidate for, 17 you know, a commercial availability annotation. 18 BOARD MEMBER JOHNSON: It currently has a commercial availability. 19 20 BOARD MEMBER CALDWELL: Oh, I'm sorry. BOARD MEMBER JOHNSON: Yup. It's on 606 already. 21 22 So if it is available organically, then it has to be. So 23 it's really, should it be removed, and then it would force people to use organic. 24 25 BOARD MEMBER CALDWELL: Thank you so much, Kyla,

of bringing me up to speed once again. I feel like there's so much information that we have in these meetings that the new information comes in and older information definitely goes out the back door, because I can't keep it all in. So, thank you.

6 CHAIR SMITH: For future reference when we're in 7 the handling list, it would probably be good to just remind 8 folks when we are jumping from nonsynthetics to synthetics 9 to 606, and in this time, we bounced around quite a bit. 10 And so I can understand some confusion.

11 BOARD MEMBER JOHNSON: Yeah. I had the same 12 thought -- oh, I didn't mention when we switched, but it is 13 because we've been bouncing around. But maybe we can all remember when we introduced materials to emphasize which 14 list it's on. It is a little bit odd to have both the 15 16 requirement that you do the commercial availability search 17 and the Sunset process for this list because they're quite connected. But I think the goal here is to be searching for 18 products that have become so commercially available that 19 there's not going to be a situation where you would need 20 21 this listing anymore.

Okay. Thanks, Kyla.

22

Our last two, more back to the ocean, got Dilip
on seaweeds, Pacific kombu, and then wakame seaweed.
2026 HANDLING SUNSET REVIEWS: SEAWEEDS,

1 PACIFIC KOMBU AND WAKAME 2 BOARD MEMBER NANDWANI: Okay. Thanks, Allison. 3 Last two Sunsets before we break and Okay. pretty much done for the day. Right? Won't take long on 4 5 this. So before I talk about these two seaweeds, I'll say that thanks to NOP, I don't know if you guys noticed that we б had a snake basket and we had this seaweed. I enjoyed it. 7 8 If you have not, try it. 9 Okay. So two Sunsets on seaweeds. They are 10 pretty much same. And I will first highlight their 11 difference. So the first one is Pacific kombu, and the 12 botanical name is Laminaria japonica. And wakame seaweed, 13 the second Sunset I have that is Undaria pinnatifida. So 14 that's how they are different in their genus and their 15 species. The second is -- wakame seaweed is a brown algae. 16 17 Okay. So I wanted to just highlight before I go further, 18 because the rest of the information is pretty much the same. 19 So it's 205.606, nonorganic agricultural allowed. And the technical report is available on -- from 2016, which 20

is on marine plants and algae. Subcommittee reviewed these substances. Seaweeds are used as food and in cosmetics and fertilizers processed to extract thickening agents and as an additive to animal feed. Cultivation industries now produce more than 90 percent of the market's demand. Some

173

commercial organizations have been promoting seaweed for 1 2 restaurants and domestic use with some success. 3 Kombu, it is a Japanese name. It's -- they use 4 as a vegetable. So produced from hundreds of hectares of 5 brown seaweed, Laminaria japonica -- as I mentioned earlier, that is grown on suspended ropes in the ocean. б Manufacture: 7 So kelps are seaweed and recognized 8 as kombu in Japan, as I mentioned just a moment ago. And 9 various kinds of food made from kombu -- one of the most 10 important of the marine vegetable preparations. The seaweed 11 used in the manufacture of kombu are coarse, broad-fronded 12 members of the kelp family -- which is Laminariaceae. And 13 until Laminaria japonica was introduced, and other kelps

14 utilized in kombu manufacture are Arthrothamnus bifidus and 15 kurilensis.

There are several countries they make 16 Okay. these seaweeds, you know -- Japan China, Korea, and also 17 18 Argentinian seaweeds. They have expanded to new markets for 19 human consumption. An Icelandic company whose products includes rockweed which is Ascophyllum nodosum, and kelp, 20 21 which is Laminaria digitata. Mechanical harvesting uses 22 specialized equipment and takes place between April and 23 October.

Okay. I won't go further in much detail.Seaweed cultivation in the US has grown rapidly in recent

years, with farms in Alaska, New England, and the Pacific Northwest. In 2021, production increased from 18 tons to about 440 tons now. Still, it is .01 percent of the world's seaweed. It's the fastest growing sector of the American aquaculture.

International acceptance: It is listed in
Canada, EEC, Codex, IFORM, and Japan. Ancillary substances:
None. And there are no known impact on human health and
environmental issues, as per the technical report of 2016.

10 Public comments: They support relisting of 11 seaweeds, these two substances. A stakeholder indicated 12 that the two seaweed materials be reviewed within the 13 broader context of marine materials. As part of the review, 14 consider the addition of an annotation related to harvest 15 restrictions and risk-based testing for toxic materials 16 using a decision tree to identify harvesting areas where 17 testing would need to be performed.

18 And we asked a question to our stakeholders, what 19 harvest restrictions and risk-based testing for toxic materials where testing would need to be performed? So this 20 21 was about Pacific kombu. And let me see if I have something 22 else in wakame seaweed, other than what I mentioned in the 23 beginning about the scientific name, about the color. So use is the same. Manufacture -- I think I'd like to mention 24 one point here. Several of these countries, those who 25

produce, they say that -- and I'm just quoting here from Argentina -- the National Center of Patagonia, they guarantee that the harvesting methods are performed in a sustainable way. Regulations for the management of brown seaweeds and marine concessions are particularly well developed, and the supply in brown seaweed to the alginate industry is well managed and organized.

8 Okay. I think the rest of the information for 9 wakame seed is also same. No known impact. International 10 acceptance. Several commenters mentioned the prior NOSB 11 recommendation that I mentioned in the fish oil discussion; 12 and that we should be looking holistically at marine 13 materials and sustainable harvest practices.

I think that's all I have. Thank you. With this, I'm going to eat my rest of the seaweed soon. Yes, sir.

17 BOARD MEMBER D'AMORE: Yeah, Dilip. Nice job. Ι 18 am not going to really ask you a question, because I 19 wouldn't want to have somebody ask me a question at this point. But I'm a little surprised with both of these that 20 21 you -- or we've had no indication of environmental issues. 22 Some of the -- I forgot which one it was, but I had a 23 seaweed a couple of years ago. In terms of disturbing patterns of movement, in terms of how far away was it from 24 the shore, and what it did to the floor of the ocean. 25 I was

just surprised to see that, all of a sudden, there's 1 2 something here that's sounds pretty similar that has -- it 3 just gets a free ride on environmental impact. 4 BOARD MEMBER NANDWANI: Yeah. Go ahead. Sorry. 5 BOARD MEMBER D'AMORE: I was just saying thank б you. 7 BOARD MEMBER NANDWANI: Yeah. You're right, 8 If you read the detailed -- the technical report, Jerry. it's given in detail that how these kelps, they are hanging 9 in the -- you know, from the -- these fishermen, you know, 10 11 in Japan, China, and other countries, they go to these 12 ocean -- in the open ocean, in the open boat, and they hang 13 these kind of ropes like to the floor -- ocean floor. And 14 then, they have specialized hooks from the boat. And then 15 they, you know, they harvest.

16 There was a lot of concern about what you just 17 mentioned. And if you read the report, that it may affect 18 that -- you know, their harvest practices may affect -- you 19 know, there are some environmental concerns there like, as I mentioned in the public comment, and one of the stakeholder 20 21 mentioned. But these companies they also, kind of -- they 22 guarantee that it's a very sustainable way, but one of the, I think, NOSB member they did review the former one. 23 They reviewed about its practices. If I remember correctly, the 24 name was Emily. If I -- I'm not sure had it bad, or 25

somebody. They did review this proposal. And I just wanted 1 2 to add that here. So, yeah -- just to add. Thank you. 3 BOARD MEMBER JOHNSON: Thank you. Franklin? 4 BOARD MEMBER QUARCOO: When it comes to 5 environmental impact, seaweed, they actually do bioremediation. Most of the varieties, they actually take б toxic materials from water bodies and stuff like that. 7 So 8 for me anytime I hear about seaweed, what I worry about is wherever it's being grown, what amount of pollution is 9 there, because the plants are going to take it up. And when 10 11 you try to use it as a food source or something, what is the 12 processing that makes sure. 13 So it's actually good for the environment. Ιt takes out toxic materials, but then I worry when it has to 14 15 be used as food, so where is it grown? How is it processed, so it's safe for us? 16 17 BOARD MEMBER D'AMORE: Thank you. You jogged my 18 memory. It was a double-edged sword, all right. 19 BOARD MEMBER JOHNSON: Thank you. Yes. BOARD MEMBER TURNER: Even though I know that 20 21 that work that was done in the fall of 2020 was related to 22 crop fertility, there were two proposals -- oh, there were 23 two proposals related to crop fertility. I do suggest that we spend time this semester looking at those documents, 24 25 because there may be some things from those documents,

especially for the new members, that would be worth learning 1 2 from and potentially including in this discussion. So... 3 BOARD MEMBER JOHNSON: Thanks, Wood. I think 4 that's a great suggestion. Anything else? 5 All right. That concludes the handling portion б of our agenda. Thank you, all. 7 CHAIR SMITH: Okay. Nearing the end. We 8 actually are going to take a break until 3:15. And when we 9 come back, we're going to do a deferred vote, look at the work agenda, have a short discussion, and then we'll be out 10 11 of here. 12 I got played off the stage. 13 RECESS FROM 3:04 P.M. TO 3:17 P.M. 14 DEFERRED VOTES 15 Okay. We do have a deferred vote. CHAIR SMITH: And so, if you can recall, it was brought up around in the -16 17 - changing the word, individuals are expanding -- yeah. Oh, 18 yeah, here we go. Wonderful. This is about the public 19 comment part. So in changing -- the edit that was made was to change the word "impugn" to "malign." And it said, the 20 character of any individual. And it was brought up to 21 22 expand that to entity or organization. And so do I have a 23 motion to make this friendly amendment? BOARD MEMBER POWELL-PALM: I would make that 24 motion, please. 25

CHAIR SMITH: Do I have a second? 1 2 BOARD MEMBER HUSEMAN: I'll second. 3 CHAIR SMITH: Perfect. Any discussion on this 4 friendly amendment? Brian? 5 BOARD MEMBER CALDWELL: So the words are entity or organization? 6 7 CHAIR SMITH: They're right on to the screen 8 there. You can see the red. 9 BOARD MEMBER CALDWELL: Oh, I see. Adding -- I'm glad you have individual still in there. 10 11 CHAIR SMITH: Okay. Any other questions, 12 comments, discussion? Okay. So I have a motion on the floor from Nate, 13 seconded by Kim, for this friendly amendment to add entity 14 15 or organization, as seen on the screen. This is a simple 16 majority vote. And the voting starts with Wood. 17 BOARD MEMBER TURNER: Yes. 18 CHAIR SMITH: Mindee? BOARD MEMBER JEFFERY: Yes. 19 20 CHAIR SMITH: Amy? 21 VICE CHAIR BRUCH: Yes. 22 CHAIR SMITH: Logan? 23 BOARD MEMBER PETREY: (No audible response.) CHAIR SMITH: Kim? 24 BOARD MEMBER HUSEMAN: 25 Yes.

1 CHAIR SMITH: Nate? 2 BOARD MEMBER POWELL-PALM: Yes. 3 CHAIR SMITH: Dilip? 4 BOARD MEMBER NANDWANI: Yes. 5 CHAIR SMITH: Franklin? BOARD MEMBER QUARCOO: Yes. 6 7 CHAIR SMITH: Nate Lewis? 8 SECRETARY LEWIS: Yes. 9 CHAIR SMITH: Logan? 10 BOARD MEMBER PETREY: (No audible response.) 11 CHAIR SMITH: We're voting on the friendly 12 amendment that you can see on the screen in red, that says, 13 "Adds entity or organization." 14 BOARD MEMBER PETREY: Yes. Yes. Sorry, I got on 15 But I remember what we were voting on. late. Thank you. CHAIR SMITH: Great. Allison? 16 17 BOARD MEMBER JOHNSON: Yes. 18 CHAIR SMITH: Brian? 19 BOARD MEMBER CALDWELL: Yes. 20 CHAIR SMITH: Jerry? 21 BOARD MEMBER D'AMORE: Yes. Carolyn? 22 CHAIR SMITH: 23 BOARD MEMBER DIMITRI: Yes. 24 CHAIR SMITH: Chair votes yes. 25 SECRETARY LEWIS: That's fourteen yes, one

1 absent. The motion carries.

2 CHAIR SMITH: Okay. Great. Now we are going to 3 vote on the PPM as a whole. So do I have a motion to accept 4 5 UNIDENTIFIED SPEAKER: We had it from the subcommittee. Do we need to do it -б 7 CHAIR SMITH: T --8 UNIDENTIFIED SPEAKER: It was an amendment to 9 this proposal. CHAIR SMITH: 10 Okay. 11 UNIDENTIFIED SPEAKER: As amended. 12 CHAIR SMITH: I'm not a parliamentarian. So we have a motion from the subcommittee that comes to the full 13 14 Board to accept the proposal on the PPM as amended -- a 15 friendly amendment to the motion. It was motioned by Nate 16 and seconded by Amy. And the voting starts with Mindee. 17 BOARD MEMBER JEFFERY: Yes. 18 CHAIR SMITH: Amy? 19 VICE CHAIR BRUCH: Yes. 20 CHAIR SMITH: Logan? 21 BOARD MEMBER PETREY: Yes. 22 CHAIR SMITH: Kim? 23 BOARD MEMBER HUSEMAN: Yes. CHAIR SMITH: Nate Powell-Palm? 24 BOARD MEMBER POWELL-PALM: Yes. 25

1	CHAIR SMITH: Dilip?
2	BOARD MEMBER NANDWANI: Yes.
3	CHAIR SMITH: Franklin?
4	BOARD MEMBER QUARCOO: Yes.
5	CHAIR SMITH: Nate Lewis?
6	SECRETARY LEWIS: Yes.
7	CHAIR SMITH: Allison?
8	BOARD MEMBER JOHNSON: Yes.
9	CHAIR SMITH: Brian?
10	BOARD MEMBER CALDWELL: Yes.
11	CHAIR SMITH: Jerry?
12	BOARD MEMBER D'AMORE: Yes.
13	CHAIR SMITH: Carolyn?
14	BOARD MEMBER DIMITRI: Yes.
15	CHAIR SMITH: Wood?
16	BOARD MEMBER TURNER: Yes.
17	CHAIR SMITH: Chair votes yes.
18	SECRETARY LEWIS: Fourteen yes, one absent. The
19	motion carries.
20	NOSB WORK AGENDAS/MATERIALS UPDATE
21	CHAIR SMITH: Great. Okay. Now we are going to
22	look at the work agenda. So in CACS we have a couple of
23	items here. So, residue testing for a global supply chain.
24	The document on crop insurance. We'll go to a vote.
25	It's I think we did the transition document, so I think

that one is done. And the capacity and constraints 1 2 document, we'll go to a vote in the fall. 3 In crops we have a couple of petitions. Carbon 4 dioxide is still with us, so we took that one back to 5 subcommittee. So we'll see that one again. We also have a petition on pear ester. And then we are working on the б 7 compost document as well. These are all the Sunsets. 8 In handling, we have a couple petitions. Allison 9 mentioned these earlier, but the petition for ethylene to 10 expand the annotation to be allowed in potatoes as a sprout 11 inhibitor. Also, an amendment to potassium phosphate to 12 remove the annotation. These are all the handling Sunsets. 13 Colors are coming back, guys. Wait a minute, is 14 this the -- oh, sorry. Wrong list. I'm getting ahead of 15 myself. Colors is next year. Okay. Livestock: We have heard quite a bit 16 17 about the Meloxicam petition, so we will see that one in the 18 fall. And then, these are all the Sunsets. 19 Materials: There is planned to be a discussion document on induced mutagenesis under the excluded methods 20 21 umbrella. We'll vote on research priorities. We will also 22 have a proposal on inert. And we did the TR this meeting. 23 So that one is also no longer on there. And that's it. Anything I missed, Subcommittee Chairs, that is 24 not on the table? 25

Burke Court Reporting & Transcription (973) 692-0660

184

Moving in -- yeah. Michelle kindly 1 Okav. 2 reminded me that the work agenda is available on the website 3 as well. 4 Moving --Okay. 5 BOARD MEMBER POWELL-PALM: Kyla, can I just talk just a smidge about livestock for a second -- or in other б 7 business? 8 CHAIR SMITH: Yeah. I was going to do that in 9 other business, I believe. 10 BOARD MEMBER POWELL-PALM: Perfect. Thank you. 11 OTHER BUSINESS 12 CHAIR SMITH: Yeah. Okay. So we're there. So 13 qo ahead. 14 BOARD MEMBER POWELL-PALM: Thank you. Sorry. 15 It's micro movements across the finish line right now. 16 BOARD MEMBER DIMITRI: I just wanted to bring up 17 something. I don't know if this is the right forum for it, 18 but I guess we had many public comments about revisiting the 19 seed document. And I wondered if we wanted to think about -- start thinking about whether we wanted to do something 20 21 about it. It sort of caught my eye as something 22 interesting. I didn't know if it was a work agenda or other 23 business, so I'm just raising it. Okay. Cool. BOARD MEMBER POWELL-PALM: 24 Because of the materials that we've had on the materials that we've 25

had on the livestock subcommittee this last round. I think 1 2 we've all started to think a little bit more about animal 3 welfare in organic. And as we go into the fall meeting, I 4 am wondering what you all think about a possible work agenda 5 item similar to what we did with Climate-Smart, looking at how organic is an animal welfare standard, and what ways б would we like to highlight it -- not necessarily even 7 8 something that we have to formally do, but as we go to vote on all these materials on Meloxicam, I'd be so eager for the 9 10 community, for everyone on the Board, to bring your best 11 anecdotes for what do we love about organics welfare impact? 12 And what can we do better?

13 And thinking of Meloxicam as such a great example 14 of the community coming together saying, we can do better. 15 We have a very well-known material. We are able to address 16 pain needs in a broader, more all-encompassing manner, so 17 let's go. And so other ideas for that, I think, I would really love to sort of point us to that, as we look at the 18 19 just fantastic success of the Climate-Smart discussion, sort of staking our claim to that conversation. I would love to 20 21 bring that same energy to animal welfare.

22 CHAIR SMITH: Go ahead, Wood.
23 BOARD MEMBER TURNER: I think that's a great
24 idea. I don't want to get off topic. If there's a
25 discussion on that, I'm going to bring up another point.

CHAIR SMITH: Oh.

1

2

5

BOARD MEMBER TURNER: Sorry.

3 CHAIR SMITH: Does anybody have comments or4 questions for Nate? I see thumbs up.

BOARD MEMBER POWELL-PALM: Cool. Thanks.

6 BOARD MEMBER TURNER: I just was thinking about 7 your account -- your organic markets discussion document 8 earlier and, you know, just -- no discussion, but I think 9 that it's because there's so many questions and so many 10 opportunities and so many things to think about.

11 And the one thing that I just would encourage us 12 to think about, as you as you think about -- continue to work on that workstream, is just that, for me, the bigger 13 14 question that you're raising in that document is that we should be able to have -- we should be able to be thinking 15 16 at the same time about delivering fair revenue, fair wages, 17 fair prices to growers, and offering consumers food they can afford. 18

And I think those two things are -- we have to be able to hold those together. And so I just hope that as you finish up that report -- finish up that proposal and think about what you're -- thinking about that more, I hope we as a Board can sort of have that dialogue, because I just -- I'm more and more convinced of it every day, as we spend another round of hearing from growers, which I, again,

appreciate so many of you who've played a role in bringing 1 2 growers to these meetings, because it's been fantastic. 3 BOARD MEMBER POWELL-PALM: Thank you for that. 4 To just highlight, I think, the point you're making Yeah. 5 is that we can have both. We can have a world where organic food is not a luxury item. And we can have a world in which б 7 farmers get paid a fair price. And I think we've been very 8 much supply oriented, just by the very nature of, kind of, 9 the author's resumes on this topic. But we'd love to bring in that sort of finished goods consumer perspective for how 10 11 are we setting the right goalpost, and what does success 12 actually look like? So thank you for that. 13 CHAIR SMITH: Sorry. Go ahead, Kim. 14 BOARD MEMBER HUSEMAN: You're fine. What I just 15 want to echo that -- and I've had some sidebar dialogue here 16 with Nate on this, too -- and appreciate the lens from the 17 supply side. And my hope would be that as we come into the 18 fall meeting, that we talk about, you know, that further 19 stream and where the constraints are in the further stream. And, you know, hear from -- where does that go? How do we 20 get to what you're talking about? Because there is, there 21 22 should be that component of where these circles overlap. 23 And that's where we help to generate a sustainable way to

24 grow the market.

25

And my goal, as I've said, is to take the

pendulum swing and just find some guardrails that we can all 1 2 operate in that help to lift it sustainably. And I think 3 that's a piece that is so vital in what we're missing. 4 BOARD MEMBER POWELL-PALM: Sitting next to Kim 5 this meeting, I've re-fallen in love with the word "sustainability." We've taken it back, folks. б 7 I see Amy, and then Logan, and CHAIR SMITH: 8 then, Jerry. 9 VICE CHAIR BRUCH: Yeah. Thank you. I think 10 this is a really good focus, and a wonderful focus for the 11 end of this meeting, is the market piece, and really 12 appreciate the comment on bringing farmers to the table. Ι 13 think this is a great opportunity. 14 We had a few voices in the supply side of things 15 this go around. John Brunquell from Egg Innovations was a 16 good voice for just further insight. And it was encouraging 17 because he made it sound like we can make this happen and it can work on all sides. So I just encourage Board members 18 and the community to reach out to the supply side, and let's 19 get those voices heard during public comments. We need 20 their information to kind of take this document over the 21 22 finish line. So, thank you. 23 CHAIR SMITH: Logan? BOARD MEMBER PETREY: Thanks. So kind of going 24 back to Woods's comment discussing that more, I'm just 25

1 curious. Okay. So, Amy, what would it take for your raw 2 product costs to be lower to keep -- to get organic prices, 3 I guess, to where more consumers are not out of that luxury sector? Like, are there other things -- like when I think 4 5 of how to get raw product costs, it's -- obviously, yield's б got to be high. And so you've got to have a really good 7 farming system. And maybe it is rotational things that can 8 be added to your farm to increase yield or to spread out your overhead, whether it's your tractor expenses, your land 9 10 rent, you know.

If feel like once you start filling in -- what are the gaps that are preventing -- it's not meant to be strictly like -- I just feel like there's actually a lot of other things that we might could accomplish that would inherently reduce the raw product costs that people have and that might -- so, or that help, you know, consumer side, and then that would help grow the business, too?

18 CHAIR SMITH: I don't know if Amy's -- she might 19 have -- I don't know. But Nate, I feel like, maybe was 20 going to -- oh, no. Now Amy's back. Go ahead, Amy.

21 VICE CHAIR BRUCH: Sorry. That hand just did not
22 go down. I apologize.
23 BOARD MEMBER POWELL-PALM: Amy, Logan had a

24 question for you.

25

VICE CHAIR BRUCH: Oh, okay. I had a brief

1 moment --

2 BOARD MEMBER PETREY: No, I understand. No, I'll 3 direct that to Nate, then. I know he's a producer and so, 4 what I was asking is what -- what would help you reduce your 5 raw product costs over -- you know, consistently over time? Going back to Wood's discussion on how do we get organics to б 7 be maybe more affordable, where more people can consume it, 8 and then demand would go up? So how are we getting that 9 demand up? And I just mentioned, you know, I think crop --10 as I think about our own farm -- crop rotations would help 11 yields because -- and also help spread overhead costs and 12 equipment costs, you know, things like that, and land rent, 13 things that would ultimately reduce the raw product costs. 14 And so that would help, I feel like, the system.

And I just didn't know if you had any other things that you felt like you're probably missing that could really help, so -- that helps the organic industry to be that more consistent, I guess.

VICE CHAIR BRUCH: Uh-huh. Yeah. I think the crop rotations are helpful, from a soil health perspective, and eliminating and, I guess, reducing, and then, hopefully eliminating the need for farm inputs, you know. We're growing our own fertility. That's always a goal to try to reduce the inputs, because they are getting extraordinarily expensive. So having those robust crop rotation, complimentary crop rotations, having an outlet for those to support the further innovation of crop rotation, is really important.

4 One thing we're really doing is, a lot of the 5 investment and information seeking, I guess, on equipment, so we don't have any weed escapes. We're doing that all б through innovative deployment of different pieces of 7 8 equipment, whether it be a weed zapper or a flamer on the 9 early front end, just trying to mitigate any -- yeah, weed 10 escapes that would need hand labor to mitigate those. But 11 those are the two that we're really looking at. And then, 12 you know, that that's another plug for these types of NRCS 13 They do help move the needle in reducing our P&L programs. 14 for expenses. They take up a good portion of the payment those -- that OTI 823 is something that's really important 15 16 to deploy. So, I guess, those are some of the 17 straightforward things that we're working on to lower costs. 18 Nate, do you have any other additions?

19 BOARD MEMBER POWELL-PALM: I would, very Sure. respectfully, challenge your question, Logan, of lowering 20 21 costs in order to reach a lower consumer price. For me --22 and this is more, I would say, in the grain space, when I 23 think about a \$6 loaf of bread, a \$5 loaf of bread, if I'm going to have a whole wheat loaf of bread, I -- even at 20 24 bucks a bushel, which is a rock solid price for me -- I'm 25

representing maybe 35 cents in that loaf. And so I don't feel like I need to go any lower or I need to get any more efficient because I'm already a pretty tiny part of the raw goods in that food item.

5 Where I need to figure it out is, how do I not spend three bucks a bushel on shipping it to a seed cleaner б 7 before it gets shipped to the mill? How do I get a more 8 direct line for transportation, shrinking the road miles between me and the mill? How do I seek out a -- more 9 customers who are going to be using more whole flour, 10 11 instead of white flour, as a percentage of their 12 ingredients?

13 So I think there's a certain part where we can 14 say that producers aren't the problem for why food is 15 expensive. There's so many other players in the supply 16 chain getting between the farmgate and the fork who could 17 take a little less of a cut or identify better efficiencies 18 in order to make that possible.

19

CHAIR SMITH: Jerry?

BOARD MEMBER D'AMORE: This conversation has really morphed in 15 minutes. And so, where I was starting, you've blown past it so thoroughly, but I'm going to try to be -- to play in the arena we're in right now.

24 So I really think we're talking about the costs 25 to produce, and then money back to the farm. And this whole

topic of market development or dollars back to the ranch, I just don't believe -- or, excuse me, to the very, very first thought, which is we can have our farmers whole and feed the masses, or anybody who wants what we produce. I don't know how you can have that conversation without talking about subsidizing and fair share of subsidizing. So I -- those are my two cents.

CHAIR SMITH: Nate Lewis?

9 SECRETARY LEWIS: I'll just be really quick, and 10 apologize for being a Debbie Downer on this one. But I just 11 want us to be really, really cautious about talking about 12 prices and competition and market, you know.

BOARD MEMBER POWELL-PALM: Let's all form a co-op right now --

15 SECRETARY LEWIS: Well --

8

16 BOARD MEMBER POWELL-PALM: -- so we can --

17 SECRETARY LEWIS: Just -- you know, I've been

18 trained to be overly cautious on any trust violations.

19 BOARD MEMBER POWELL-PALM: Yeah.

20 SECRETARY LEWIS: So let's just raise that flag 21 and not create any appearance of that.

22BOARD MEMBER D'AMORE: Could you articulate the23key concern there? And that's the other --

24 SECRETARY LEWIS: Talking about prices is a very 25 challenging thing to be doing.

1 BOARD MEMBER D'AMORE: In certain positions. 2 Okay. 3 CHAIR SMITH: Carolyn? 4 BOARD MEMBER DIMITRI: Okay. You've all strayed 5 into my territory, as a person who's worked on the economics of the food system for a lot of years. And I teach an б 7 entire class on this. So I'm not going to give you my 8 professorial lecture here, but I would urge us -- we have a 9 lot of talent in this room, a lot of expertise, and we have a limited amount of time, and there's so many important 10 11 problems. Is this one that is worth our time -- spending 12 all of our time on, or really any of our time on? I mean, I 13 think that has to be an individual, and maybe a Board level 14 decision. 15 CHAIR SMITH: Allison? 16 BOARD MEMBER DIMITRI: Opportunity costs. What 17 won't we be doing because we'd be doing this? 18 BOARD MEMBER JOHNSON: I really hear that, 19 I was going to add on to the -- it just kept Carolyn. building, and there's so much I agree with that we've heard. 20 I do think we need to be very careful about equating farm 21 22 price -- the farm cost with consumer price. And, in 23 particular, there has been a lot coming out recently about unfair practices in the retail sector -- price fixing, 24 really jacking up consumer prices, without regard whatsoever 25

1 for farm costs.

2	So, Nate, to your point, the farm piece of the
3	consumer dollar is quite small. And I think we're learning
4	more and more about the retailer role in keeping organic
5	expensive for consumers, likely to the point that it exceeds
6	the cost differential. So looking to the retailer role in
7	all of this, I think, is worth doing.
8	And, Carolyn, to your point, probably not what we
9	need to do here, but in the name of you know, we all need
10	to be talking to Congress. We all need to be talking here
11	about what this Board can do. We all need to be keeping an
12	eye on competition in the marketplace and a fair playing
13	field. All the pieces have to be working together.
14	And then looking way back to the beginning, I
15	agree we should do something on seed, Carolyn. I heard that
16	coming through in a lot of comments. So, maybe, Logan, we
17	could put our heads together. I have some ideas, too.
18	CHAIR SMITH: Amy?
19	VICE CHAIR BRUCH: Yeah. I was just going to
20	summarize the last couple minutes and say, this is very
21	reminiscent of a subcommittee meeting of CACS. As Jerry
22	said, the conversation morphs. We build on one thing to
23	another. So this is of our work agenda items, the market
24	constraints, but this kind of gives you those that are
25	not on CACS how some of the conversation and deliberation

1 goes. So it is really challenging topics. And as Allison 2 kind of noted, and Carolyn, we got to scope them out 3 appropriately for the work that we can do on the Board. So, 4 thank you.

> BOARD MEMBER POWELL-PALM: I saw Wood's hand up. CHAIR SMITH: Wood?

Well, I just -- you know, 7 BOARD MEMBER TURNER: 8 we could have the debate about how we spend our time all day 9 We just went through a list of Sunsets, going through lonq. 10 many of which are -- I'll go on the record and say, many of 11 which are perfunctory. Many of which we all agree on. Many 12 of which we know nobody's going to comment on. We've spent 13 all this time doing that. So I would argue, this discussion 14 is perhaps a more important part of our conversation than that part. But that's -- I know I'm -- I know that we're 15 16 legally mandated -- legally asked to do. So I'm not arguing 17 that point here, but I'm just saying, we could have that 18 debate all day.

19

5

б

CHAIR SMITH: Carolyn?

BOARD MEMBER DIMITRI: It might make people feel happy. Researchers, economists I know are looking into whether organic farmers get like a larger part of the food marketing dollar. So it's not like people aren't thinking about these questions. So, you know, it might take a while, but -- because economic research takes a long time, but it's

1 coming down the pipeline.

2	CHAIR SMITH: Okay. I'm going to switch topics -
3	- awkward transition here to so we had in-person
4	public comments, guys. First time in a while. We said we
5	were going to trial it out. We had we've had we've
6	heard arguments on both sides, you know, for and against. I
7	know I personally have jumped back and forth on that. And
8	so I just wondered, since we all had not really experienced
9	it until now, what did you think?
10	Go ahead, Allison.
11	BOARD MEMBER JOHNSON: This has been a really fun
12	meeting, and I think the in-person comments were part of
13	that. And, I guess, two additional observations. One, in
14	thinking through whether it was important to have the in-
15	person comments back, one of the key arguments or concerns
16	was an opportunity for people in the region to show up in
17	person who might not join virtually. We didn't see much of
18	that. We saw a little bit, which was great. And we
19	committed to this in-person road really late, without a lot
20	of notice. So I would be in favor of trying it again, at
21	least in Portland, with good, strong advanced notice to give
22	people an opportunity to recruit local folks to show up in
23	person. So, general support for the idea, but this time it
24	didn't quite fully achieve what I think we were hoping was
25	part of the purpose of in-person comments.

1 CHAIR SMITH: Sorry. I saw Nate, and then Brian. 2 And Jerry, were you raising your hand before or were you 3 like, "Woo-hoo"? 4 BOARD MEMBER D'AMORE: I love it. I'll take a 5 comment at the end. б CHAIR SMITH: Okay. Nate? I was just going to 7 BOARD MEMBER POWELL-PALM: 8 ask Allison, how much earlier do you -- I guess I didn't 9 quite catch the timeline that you felt impacted the lack of farmer voices in in-person comments. 10 11 BOARD MEMBER JOHNSON: I don't know how long it 12 takes, but when we were in Rhode Island, we were still 13 unsure. I can't remember when exactly we made it clear in 14 public that there would be this in-person opportunity, but 15 it was not six months in advance. It was not a year in advance when we noticed the location. So if you have time 16 17 to sort of like build out your schedule and fundraise, and that sort of thing, it could look different with more 18 advanced notice as a possibility. 19 Brian? 20 CHAIR SMITH: BOARD MEMBER CALDWELL: You know, I just wanted 21 22 to say that I'm so glad that we had so many farmer comments 23 in all three sessions -- I quess it's -- yeah, basically three sessions. And, you know, just having more slots 24 allowed for that. And I think that some of our members must 25

have recruited some of those farmers, and I'm really 1 2 appreciative of that. 3 The message that a lot of those farmers gave was 4 heard loud and clear. And I think it has influenced our 5 discussion and our thinking. So really appreciate that. б CHAIR SMITH: Jerry? 7 BOARD MEMBER D'AMORE: Yeah. I hadn't thought 8 about the notion of local versus nonlocal. I will say, 9 though, that I was lukewarm about it -- not against, not 10 for. But I wouldn't want to give it up again. And I'm 11 almost at the point where I would ask if there is a way that 12 we could do more of that -- actually have an 13 institutionalized time slot that wasn't this meeting where 14 we could do that. That may be a heavy ask, but, yeah. Ι 15 thoroughly enjoyed it. Kim? 16 CHAIR SMITH: 17 BOARD MEMBER HUSEMAN: So on the topic of like 18 regional people, well, I think with having the TOPP 19 representation we inherently get an opportunity to talk to farmers and have maybe a little bit -- or maybe we expand 20 the space to ask questions to farmers during part of the 21 22 TOPP presentation on the regional aspects. You know, we're 23 going to the West Coast. It would be great to hear from some West Coast retailers, some other folks that sit in the 24 seats, not only the -- from the -- I think we have the 25

opportunity with farmers. Yes, I think farmers having the ability to call in during harvest season -- you know, we've seen the impact of having that platform and having the TOPP aspect.

5 So I think when we're calling for people 6 regionally, let's also include adding some pressure for the 7 other segments of the organic industry, and then lean into 8 the TOPP folks to try to get that engagement, too.

CHAIR SMITH: Mindee?

9

10 BOARD MEMBER JEFFERY: I like the idea of having 11 in-person comments in the spring, and just sort of making it 12 regular cadence, because I think then it could be really 13 predictable. But I also like the regionality in 14 that -- when I was on the California Organic Products 15 Advisory Committee we moved it around the state because we got so much engagement locally, especially from county ag 16 17 commissioner offices. And when those folks showed up at our 18 meetings, it really inspires our process. And I felt like 19 adjacent industries trying to understand organic is some of our hardest stuff right now. And when they come in this 20 room and they see what we did, they're like, "Oh, this 21 22 process is cool." And I've definitely seen that change as 23 people watch us do what we do.

24 So I like the in-person comments for that reason. 25 I like regionality for that reason. But I think for myself, as a Board member, I'm much more of a write down, think it out processor, than I am a hear it processor. And in respect for the public commenters I really do want to be able to synthesize the information they're giving us and take it into consideration and make it part of who I'm being in the conversations that we have in the context of the Board meeting.

8 And so just thinking about all those pressures, I 9 think a cadence could be really nice because then I know I 10 have to prepare more for the spring meeting because the in-11 person comments are going to -- you know, I can't -- it 12 just, yeah.

13 CHAIR SMITH: Allison? 14 BOARD MEMBER JOHNSON: I was just going to add, 15 in addition to thinking about timing, the agenda matters a lot, too. I did hear from some people who had reached out 16 17 to farmers who felt like they didn't have anything to comment on on this agenda, so they didn't. I think we heard 18 19 from a lot of grain farmers because crop insurance is really important for grain farmers. We heard one veg farmer who 20 21 was like, "What? Never really thought about it."

22 So having a few rounds of different content on 23 the agenda, in different places, at different times, might 24 give us a few more data points to sort of assess how this is 25 working.

CHAIR SMITH: Yeah. I know from one of the 1 2 things that I have been weighing, similar to what you were 3 saying, Mindee, is about having that space. And just for, you know, Board mental health, like having that bit of 4 5 break, you know. And there's a -- there were a lot of votes taken in the fall that you have to, you know, turn around б and vote the next day. And so, we haven't experienced that 7 8 yet as a Board. And whether or not that is detrimental to 9 our voting and our own mental health. 10 So, again, I'm willing to, you know, give it 11 perhaps another go, but -- and then I was like, ooh, like, 12 in the spring might be interesting, but then -- I don't 13 know. You sort of lose, perhaps, some of that like -- I 14 don't know. I'm -- yeah -- still weighing it all, but it 15 did bring a lot of energy to the room that was pretty darn 16 awesome. 17 Nate? 18 BOARD MEMBER POWELL-PALM: Do we have to experience something bad to know it's maybe not a good idea? 19 20 CHAIR SMITH: Yes. BOARD MEMBER POWELL-PALM: In that -- yeah. 21 In 22 that, we've really liked this process. This worked really 23 well. We know that space between hearing public comments and voting also makes the -- as evidenced by how cohesive 24 this group is. The ability to confer, to digest, to feel 25

prepared in making the votes go really smoothly. And so, the idea of if we found a really nice balance, sticking with spring meeting public comments.

4

CHAIR SMITH: Yeah. Maybe, perhaps. Jenny?

5 ADMINISTRATOR TUCKER: Yeah. I did want to jump 6 in with a program perspective on this one. I think -- I had 7 to, kind of, change with my team. I had forgotten that no 8 one around this table was in Pittsburgh. That's 9 unbelievable. And so -- yeah, on this side of the table. 10 So you've attended meetings, but you haven't been here.

11 But I do think, you know, for years and years and 12 years and years, we've had three-day meetings, we had public 13 In terms of institutionalizing the time frame, it comment. 14 actually ended up being a little bit of an elastic process, 15 depending on how many people showed up on the list -- signed 16 up to give public comment, because we wanted to fit in as 17 many people as possible. And, you know, balanced by how 18 much you had to talk about on the agenda. So I do think a certain elasticity there is okay. 19

I think from a program perspective, my personal view would be, pick a lane and go. Right? I -- what I don't like, I'll be honest, we had to go through this in a post-COVID until we stabilized. I don't like this of each meeting deciding what we're going to do next meeting. I think we need to find normal order, whatever that is, have a

rule for -- okay, obviously, if there's some kind of big 1 2 pandemic, we go back to the way we did it then. But if this 3 is going back to the normal order, let's do that, but let's not debate it at each meeting, because I don't think that 4 5 would be fair. If we ended up having a bad meeting or what would -- whatever this group considered a bad meeting, or б 7 people were mean, or things like that, and they said, "Oh, 8 well, we're not doing that anymore," you know, that's not 9 cool. That's the official government term, "not cool." 10 So I think we're either all in or we're not, 11 would be my -- but I would like to get back to, this is how 12 we do things, unless there's an emergency. And that might 13 be not doing it or it might mean doing it, but let's pick a 14 lane. 15 CHAIR SMITH: Go ahead, Kim. 16 BOARD MEMBER HUSEMAN: What -- Jenny, this 17 question might be for you. It might be tabled. But as we're discussing this and finding the lane to pick, what 18 19 does our timeline look like to get there? ADMINISTRATOR TUCKER: So, Michelle, as soon as 20 we get home -- I mean, Michelle takes a couple days 21 off -- well deserved, particularly after 24 meetings -- a 22 23 well-deserved break, and then one of the very first things she does is the federal register notice for next meeting 24 because the community really -- or, and the Board, have 25

1 really liked the open docket. And to open the docket early, 2 we have to have a federal register notice. There's 3 the -- that's the only mechanism by which we can have an 4 open docket. That was determined years and years and years 5 ago.

6 So this is why, you know, again if we can decide 7 to go either way, but we do need to decide probably in the 8 next -- Michelle, couple weeks? A couple weeks, yeah.

CHAIR SMITH: Nate Lewis?

9

19

10 SECRETARY LEWIS: Personally, I do like having 11 both the virtual and the in-person comments. I think it 12 adds some life to the room. But I also think we need to 13 provide ability to provide -- we need to allow the ability 14 to provide comments in every possible format. And, you 15 know, some people are not technologically savvy and comfortable on the computer, don't have Internet, et cetera, 16 et cetera. And so having both in the system for me checks a 17 lot of boxes. 18

CHAIR SMITH: Okay. Oh, Allison?

BOARD MEMBER JOHNSON: Can I make a proposal? I propose we do public comments again in the fall. So we have two data points, instead of one, and advance notice. See how it goes. And that's a big voting agenda. So we see what that's like, and then we commit to committing in the fall to pick a lane.

1	CHAIR SMITH: I think that's a good approach.
2	CLOSING REMARKS
3	CHAIR SMITH: Okay, guys, we did it. Woo-hoo. I
4	just want to thank everybody who is still in the room, still
5	in the Zoom room Zoomland, for sticking with us. I love
6	the public/private partnership. Again, I think organic is
7	so unique in this way. And I and when I made my opening
8	remarks, I sat on that side of the rope and I fell in love
9	with the process, and here I am.
10	And so, I just yeah, I just get so jazzed by
11	this connection. And so anyway, yeah. Glad to have been
12	your emcee for the three days. And we'll see you in
13	Portland.
14	Jenny, would you like to say anything?
15	ADMINISTRATOR TUCKER: I'll make a couple of
16	comments. First, let us give a huge round of applause to
17	Kyla Smith for a beautiful job.
18	(Applause)
19	ADMINISTRATOR TUCKER: And everyone in left in
20	the audience and online, let's do a huge applause for the
21	Board. Yay. Zoom people.
22	(Applause)
23	ADMINISTRATOR TUCKER: I want to personally thank
24	the NOP team. Michelle, congratulations on finishing your
25	twenty-fourth meeting. This is an amazing team. I don't

think folks realize, but we were having an in -- a parallel series of TOPP meetings. The national leads met -- the national cooperative agreement folks met, as well as all the regional leads came together. That, in itself, was a huge lift, as well, that happened in parallel to this. So very, very big week for all of us involved.

A couple of key dates coming up. May 10th is
public comments due on the market developments rule. So,
May 10th, mark your calendars. An Insider went out
yesterday. And then, please remember, June 28th is the
deadline for nominations.

12 So I will close simply by saying, organic is 13 climate smart. Organic integrity from farm to table. 14 Consumers trust the organic label. Thank you so much for 15 all your work being part of that journey and that success.

So, thank you. Be well. Safe travels, and I love you all.

18 CHAIR SMITH: Before I officially close the 19 meeting, I wondered if Amy and Logan wanted to share their 20 new family members with us all.

21 BOARD MEMBER PETREY: I have to be in front of 22 his lens and I just couldn't get him. There he is. There's 23 Peter.

24CHAIR SMITH: There's Peter. Aw.25VICE CHAIR BRUCH: I'll run and go get Stetson.

1 One second. 2 CHAIR SMITH: Sorry. Can't resist --ADMINISTRATOR TUCKER: Of course you're going to 3 4 gavel and scare the hell out of him. 5 CHAIR SMITH: -- cute babies. Do you have Annabelle, too, Logan? б BOARD MEMBER PETREY: I had to send my dad -- or 7 8 my husband was going to get her. So I tried to order a 9 rooster. You know, I was like -- man, Allison just keeps 10 looking around all the time. 11 CHAIR SMITH: Oh. 12 BOARD MEMBER PETREY: I'm kidding, Allison. I'm 13 kidding. 14 CHAIR SMITH: Good job, you guys. Yes. 15 (Applause) Momming and NOSB simultaneously, 16 CHAIR SMITH: 17 it's pretty incredible. BOARD MEMBER PETREY: Well, I had a great back-18 19 office staff to try to make this happen. CHAIR SMITH: All right. I'm going to officially 20 close the meeting. We are adjourned. 21 22 (Whereupon, at 4:01 p.m., the meeting was adjourned/closed.) 23 24 25

1	CERTIFICATION			
2				
3	This is to certify that the attached proceeding before			
4	the:			
5	NATIONAL ORGANIC STANDARDS BOARD			
6				
7	IN THE MATTER OF: NOSB Board Meeting, Spring 2024			
8	PLACE: Milwaukee, Wisconsin			
9	DATE: May 1, 2024			
10				
11	was held according to the record, and that this is the			
12	original, complete, true, and accurate transcript which has			
13	been compared to the recording accomplished at the hearing.			
14				
15	Edine Molakope			
16	Elaine M. LaRosee, CDLR			
17	Official Reporter			
18				
19				
20				
21				
22				
23				
24				
25				

Spring 2024 Wreeting				Wiay 13, 2024
	31:10,12	acknowledge (7)	131:19;142:11;	52:1
	acceptance (8)	12:1;13:21;92:9;		
\$			145:24;147:12;148:6;	adjusting (3)
	101:4;103:1;	94:9;106:23;114:17;	163:24;178:2,2;	50:23;52:7;55:11
\$100 (2)	104:13;139:5;162:17;	163:4	180:14;195:19;	adjustment (1)
53:13,13	171:9;175:6;176:10	acknowledged (1)	202:14	50:22
\$2 (1)	accepted (4)	150:9	added (8)	adjustments (3)
114:23	89:25;137:19;	acknowledging (4)	85:19;96:18;	56:10;93:1;94:8
\$300 (1)	148:8;157:25	15:16;18:4,25;63:7	114:10;129:17;	adjuvants (1)
9:6	access (13)	acre (1)	149:11;150:12;151:7;	142:6
\$443 (1)	9:24;11:7;13:7;	53:10	190:8	Administration's (1)
53:10	16:14,24;17:1,9;22:4,	acreage (1)	addicted (1)	147:14
	4;34:10;44:20;69:13,	9:22	36:23	administrative (1)
\$5 (1)	21	acres (1)	adding (8)	44:25
192:23	accessible (2)	70:2	32:6,13;78:6;	ADMINISTRATOR (8)
\$6 (1)	62:10;109:18	across (10)	102:16;142:11;	41:3;43:20;204:5;
192:23	accessing (1)	9:24;10:17;11:6;	150:11;180:9;201:6	205:20;207:15,19,23;
\$90,000 (1)	43:16	54:19;92:11;110:16,	addition (10)	209:3
68:7				
	accessory (2)	19;115:16;168:11;	8:10;10:22;20:17;	ado (1)
Α	149:8;155:1	185:15	138:20;147:16,25;	8:18
	accommodate (1)	Act (2)	162:1;170:6;175:14;	adopt (2)
ability (8)	18:9	15:24;159:15	202:15	12:24;133:7
29:16;57:18;170:7,	accomplish (1)	acting (1)	additional (15)	adopted (2)
14;201:2;203:25;	190:14	143:18	0:13;8:6;30:2,3;	59:8;60:10
206:13,13	accordance (2)	action (8)	35:8;52:9;55:2,7;	adopting (1)
able (29)	147:10,13	13:13;14:20;33:13;	91:6,21;103:14;	13:2
22:22;38:17;44:12;	According (7)	46:10,12;55:23;	142:16;143:21;	adoption (1)
45:16;55:10;57:16,	103:3;104:10;	161:5,8	157:11;198:13	59:5
25;59:6;60:16;66:2;	138:16;139:7;144:12;	actions (2)	additionally (1)	advance (11)
69:20,24;85:7;	162:22;163:4	13:14;149:23	128:5	8:21;25:15;27:23,
105:10;110:25;112:2,	account (1)	activated (7)	additions (1)	25;29:10;49:21;53:3;
24;113:15;114:22;	187:7	140:9,11,12,13,17,	192:18	67:6;199:15,16;
115:21;120:25;	ACCREDITATION (1)	22;141:5	additive (2)	206:22
122:11;135:12;	0:16	activities (1)	134:11;173:24	advanced (4)
	accreditation-related (1)	30:24	additives (2)	26:19;50:12;
146:11;186:15;	34:25	activity (2)	129:18;159:23	198:21;199:19
187:15,15,20;202:4	accreditations (1)	18:16,17	address (4)	advancement (1)
above (3)	31:16	actors (2)	35:3;61:12;148:15;	59:2
26:4;50:24;51:1	accredited (1)	43:21;44:9	186:15	advancements (2)
absence (2)	31:19	acts (1)	addressed (2)	65:15;145:11
53:7;125:3	accustomed (1)	143:14	19:3;134:12	advances (1)
absent (9)	33:6	actual (2)	addressing (4)	49:22
25:2;80:8;81:19;	achievable (1)	53:21;61:1	13:14;14:3;49:17;	advancing (2)
83:3;84:13;87:13;	109:18	actually (38)	73:2	35:18;59:12
88:21;182:1;183:18				
absolutely (4)	achieve (2)	14:9;38:8,22;41:11;	addressing/managing (1)	advantage (1)
57:1;58:5;64:6;	28:20;198:24	42:6,11;52:6;54:3;	69:1	47:5
103:2	achieved (2)	69:14;70:25;85:9;	adds (3)	advantages (1)
abstained (1)	9:16;109:20	91:5;108:10;109:21;	112:18;181:13;	18:13
62:17	acid (39)	115:1;119:15;123:24;	206:12	adverse (3)
abstention (2)	89:20;90:2,22;91:9,	124:8;129:10;130:25;	adequate (7)	46:12;77:14;139:8
60:7,25	11,19;92:18,20,20,24;	131:19;135:14;	48:6;53:5;55:10,14;	advice (2)
abusing (1)	93:21;108:12;110:1,	146:21;153:17;155:2;	128:11;134:24;	17:19;20:8
29:10	5;111:11,11,14,15;	156:9;161:21;166:8;	160:12	advise (1)
ACA (2)	112:11,11,22;127:7;	169:3;171:3;178:5,6,	adjacent (2)	15:24
107:4,6	128:17,18,19;129:7,	13;179:8;188:12;	37:23;201:19	advising (2)
ACAs (1)	10;130:10;141:14,15,	190:13;200:12;	adjourned (1)	7:10,16
34:2	17;144:6;156:19;	204:14	209:21	advisor (2)
accelerated (2)	157:23,24,25;158:9,	adapted (1)	adjourned/closed (1)	8:7;10:25
51:20;53:23	11,23	9:18	209:22	Advisory (1)
	ACID/PEROXYACETIC (1)	add (24)	adjust (1)	201:15
accelerator (1)	110:5	11:25;21:4;35:5;	130:16	advocacy (2)
158:20	acids (5)	42:8;64:4,23;75:21;	adjuster (4)	11:12;27:21
accept (3)	89:10,13,16;	80:12;83:6;87:16;	51:20,22,23;135:2	advocates (1)
23:15;182:3,14	159:22;161:20	120:14;129:23,24;	adjusters (1)	62:20
acceptable (2)	107.22,101.20		J	

- Vol. 5 May 15, 2024

affect (4) 70:6;96:22;177:17, 18 affected (1) 130:15 affidavit (1) 107:8 affidavits (3) 99:20;107:8;108:19 affinity (1) 108:5 affirmative (1) 17:16 afford (1) ago (7) 187:18 affordable (3) 17:2;143:22;191:7 afternoon (1) 138:12 ag (1) 201:16 again (50) 12:4;26:22;27:18; 29:9;48:13;55:3;57:3; 68:11;69:18;70:19; 71:4;86:5;89:7;92:20; 93:2;95:15,25;97:24; 99:23,24;101:23; 105:5;106:15;108:5; 114:4:118:4.8; 124:13:126:9:128:9; 138:4:143:13:146:5: 152:1,8;158:21,24; 159:1,3;160:15,23; 172:1;184:5;187:25; 198:20;200:10; 203:10;206:6,21; 207:6 against (6) 65:21;148:21; Ah (1) 152:20;168:13;198:6; 200:9 agencies (4) 16:1;20:9,21;41:23 agencies' (1) 10:18 agency (3) 10:20;50:5;63:3 agenda (26) 0:12;7:13,18,21; 8:10,18,19;44:10; 60:16:74:2.23.24: 112:5;124:1;179:6, aid (9) 10;183:22;185:2,22; 186:4;196:23;202:15, 18,23;204:18;206:23 **AGENDAS/MATERIALS (1)** 183:20 aids (3) agent (20) 51:7;57:6;61:21; 63:18;64:24;65:2; 75:23:80:13:83:7; air (1) 102:8;126:6,7;

128:22;144:18; Alaska (2) 158:16.17.19.21: 145:20:175:1 167:13:169:4 alcohol (1) agents (9) 117:22 51:13,14;59:16; alcoholic (1) 63:22,24;64:2;66:19; 104:8 93:23:173:23 alert (1) aggregated (1) 57:5 57:14 algae (2) aggregating (1) 173:16,21 57:11 alginate (1) aggressive (1) 176:6 72:24 align (1) 148:14 21:3:49:6:50:11; aligns (2) 77:2;153:1 54:20;174:8;176:23; 206:5 alkali (1) agree (3) 76:11 195:20;196:15; all-encompassing (1) 197:11 186:16 agreed (5) alleviate (1) 85:12,18;133:7; 163:15 143:4;153:23 Allison (44) agreement (2) 8:25;14:8,13,14,16; 50:16;208:3 16:11;19:19;22:18; agreements (1) 23:17,24;25:7;61:7, 41:10 17;72:8,17;73:21; agricultural (6) 75:12;79:8;80:18; 18:21;34:17;86:8; 81:25;84:9,17;87:7; 120:7;161:16;173:19 88:13,22:105:23; agriculturally (1) 133:12;135:8;138:11; 139:15 153:24:166:7:171:15: agriculturals (1) 173:2;181:16;183:7; 114:9184:8;195:15;197:1; agriculture (6) 198:10;199:8;202:13; 7:15;13:24;21:11; 206:19;209:9,12 72:10:162:21:167:9 Allison's (2) 8:21:60:17 agronomy (1) 58:14 allow (6) 54:3:58:1:74:15; 164:23 122:19;154:25; ahead (26) 206:13 7:12;10:10;14:14; allowance (3) 19:18;21:1;38:6; 76:25;77:6;171:10 39:13;63:8;66:3; allowed (39) 70:12;71:15;74:12; 76:20,24;85:10; 93:2;96:11;97:11,15; 92:12,17;117:8; 98:20;99:25,25; 119:6,7,10;177:4; 184:14;185:13; 100:1,6,7;102:7; 186:22;188:13; 104:2;111:12;114:9; 190:20;198:10; 120:16;125:17; 205:15 126:10:128:10.24: 129:18;131:3;134:10; 77:10;126:7; 135:20;137:11; 133:25;135:21;136:1; 138:14;140:13; 138:17;140:16; 143:11;150:12; 144:18;167:15 156:21;158:14; 159:12;161:16;167:9; 75:22;142:6;143:21 173:19;184:10; aimed (3) 199:25 10:2;42:16,16 allowing (3) 55:11;56:24;76:23 19:1 allows (2)

50:9:77:3 almost (3) 36:12:43:7:200:11 alone (2) 149:3:150:25 along (19) 20:23;62:10;70:17; 75:1,4:84:19:89:3; 93:23;108:11;109:5; 110:17:111:8,9,10; 117:14;120:12;138:8; 143:6:151:7 altering (2) 53:21:54:1 alternative (6) 78:11;111:2; 124:20;138:18; 143:15;159:13 alternatively (1) 76:24 alternatives (10) 77:18:78:1,10; 109:23;114:24;115:1; 134:21,25;135:3; 171:2 although (6) 44:21;55:19;76:16; 134:14;137:10;156:9 always (15) 7:7:18:14:21:8; 47:24;51:24;59:19; 71:3:73:8:85:13.15: 103:21:114:7:155:17: 167:4:191:23 amazed (1) 121:4 amazing (1) 207:25 amend (2) 120:13:163:5 amended (2) 182:11,14 amendment (7) 179:23;180:4,14; 181:12;182:8,15; 184:11 America (1) 38:20 American (1) 175:4 Americans (1) 143:9 ammonium (2) 111:2;126:16 amongst (1) 70:20 amount (6) 19:23;41:12;95:1; 134:7;178:9;195:10 amounts (1) 11:9 AMS (1) 48:5

- Vol. 5 May 15, 2024

Amy (42) 0:14:9:3:10:24: 13:5:14:13:22:15; 24:16;25:4;28:14; 29:20:30:15:35:5; 37:11:38:6:39:14; 44:6;47:7;56:17; 59:25:68:17:69:4: 70:11,12;72:19; 73:12:79:24:81:7; 82:14;83:22;86:20; 88:1;166:6,18; 180:20;182:16,18; 189:7;190:1,20,23; 196:18;208:19 Amy's (3) 36:16;190:18,20 analogies (1) 67:21 analyses (1) 45:3 analysis (1) 78:8 ancillaries (1) 159:25 Ancillary (7) 101:5,5;103:3,5; 104:14;162:22;175:7 and/or (1) 128:2 Andrew (1) 58:22 anecdotal (1) 108:6 anecdotes (1) 186:11 angry (1) 152:1 animal (8) 76:25:96:17; 124:15:144:2:173:24: 186:2,6,21 animal-based (1) 144:5 animals (4) 98:10;146:13; 163:22;168:5 Annabelle (1) 209:6 Annie's (1) 167:16 annotate (2) 151:21;161:4 annotated (3) 103:19;128:7; 159:11 annotation (27) 74:15;76:4;90:6,16; 96:20,24;97:1; 103:23;128:4;148:7, 20.24:150:1.9.17: 151:3;152:19;153:8, 22;154:6,25;156:13;

- Vol. 5 May 15, 2024

Spring 2024 Meeting May 15, 2024				
163:5;171:17;175:14;	appreciating (1)	around (49)	assumption (2)	26:1;72:25;73:4;
184:10,12	18:25	10:11;13:19;16:14;	28:18;41:25	203:16
announced (1)	appreciation (2)	17:3;22:3;24:21;	astounding (1)	awkward (2)
72:11	11:3;92:5	28:16;30:22;32:14;	58:16	72:4;198:3
announcement (2)	appreciative (1)	34:4,8,12;42:14;	attempt (1)	· · · · · · · · · · · · · · · · · · ·
13:23;133:3	200:2	44:22;46:6;50:19,20;	54:18	В
announcements (1)	approach (18)	53:5;63:10;66:20;	attended (1)	
13:25	18:13;26:9;35:20;	89:9;106:24;113:8;	204:10	babies (1)
anticaking (4)	54:13,23;57:10;	117:13;118:5;125:21;	attention (1)	209:5
75:23;80:13;83:7;	60:20;62:19;63:2;	127:12,15;129:4;	97:8	baby (1)
144:18	65:23;72:25;78:12;	130:7,9;135:5,22;	attestations (1)	89:23
anticipate (1)	130:15;131:3,5;	144:20;149:3;150:20;	128:2	back (63)
32:19	134:19;151:23;207:1	155:4;160:12;167:1;	attributes (1)	0:7,11;14:12;15:23;
antioxidant (2) 141:25;159:15	approached (1) 30:12	169:17;170:3;172:9,	157:1 audible (3)	21:6,9;25:4;37:12;
antioxidative (1)	approaches (1)	13;179:16;189:15; 201:15;203:6;204:8;	79:21;180:23;	39:18;56:17,22; 61:17;63:14;67:4,7;
141:22	93:3	201.15,205.0,204.8, 209:10	181:10	68:17;72:19;73:16;
anymore (4)	appropriate (7)	arrangements (2)	audience (2)	84:14,17;88:22;92:5;
118:11;151:14;	32:12,14;90:4,5;	77:7,8	74:1;207:20	94:5;95:13;96:15;
172:21;205:8	103:11;147:20;148:1	arrayed (1)	audiences (2)	101:14,16;107:18;
anyways (3)	appropriately (1)	140:20	42:15,22	108:3;124:6;125:20;
121:15,19;154:22	197:3	arrives (1)	augment (1)	129:12,23;132:23,25;
APH (1)	approval (1)	108:13	67:23	133:12,17;138:1;
54:12	103:16	Arthrothamnus (1)	Aureobasidium (2)	144:8;150:16,18;
apologize (4)	approved (4)	174:14	139:1,3	152:4,6,17;157:8;
105:9;131:17;	31:15;129:5;141:2;	articulate (2)	authority (2)	167:4;172:4,23;
190:22;194:10	144:15	50:3;194:22	60:16;139:7	179:9;184:4,13;
Apparently (1)	approximately (3)	articulately (1)	author's (1)	189:6,25;190:20;
143:8	8:19;137:12;141:7	69:18	188:9	191:6;193:25;194:1;
appear (2)	April (2)	articulates (2)	availability (20)	196:14;198:7,15;
134:21;137:20	148:22;174:22	49:7;50:2	90:6,9,14;91:25;	205:2,3,11
appearance (2)	apropos (1) 108:22	artificial (2) 115:2,6	120:8,17;122:13;	back- (1) 209:18
158:18;194:21 appears (4)	aquaculture (4)	Ascophyllum (1)	127:13;139:11,17; 145:8,11;146:13,21,	background (7)
29:14;129:6;	161:25;162:1;	174:20	22;160:24;161:5;	25:16,21;105:20;
153:13;170:13	163:12;175:5	ascorbic (3)	171:17,19;172:16	134:17;139:21;
appendix (2)	aqueous (1)	141:14,15,17	available (28)	165:25;166:15
97:20:98:25	76:14	ash (6)	34:7;57:5;102:12;	backwards (2)
applaud (2)	ARA (1)	125:21;126:18,20,	103:5,20,22;108:15;	58:23;108:16
20:25;117:13	155:1	22,24;128:14	119:4;122:19;129:25;	
Applause (6)	arduous (1)	aspect (3)	134:15;137:12,18;	116:18;117:11,25;
29:17;207:16,18,	109:9	18:7;136:7;201:4	138:15;139:8,22;	118:9;120:15,24;
20,22;209:15	area (7)	aspects (2)	143:13;146:6,17;	122:2,5,8,11,12,13;
applicable (2)	33:15;34:4;129:3;	7:17;200:22	160:10,15,25;161:17;	123:6;124:14,16,17,
56:11;128:4	148:17;150:10,13;	Aspergillus (1)	168:9;171:22;172:19;	18;143:9
applied (3)	155:8	91:10	173:20;185:2	bacteria (5)
36:10;90:9;98:10	areas (2)	assemble (1)	avenue (2)	91:8;96:14;100:17,
applies (1)	18:12;175:16	117:10	130:6;167:2	19;104:4
142:5 apply (4)	arena (3) 105:16;106:6;	assembled (1) 74:25	average (2) 66:12,16	bad (9) 43:21;44:9;51:25;
36:13;53:22;67:9;	193:23	14:25 assess (4)	avoid (1)	43:21;44:9;51:25; 116:20;122:2;177:25;
73:9	Argentina (1)	54:24;111:18;	147:22	203:19;205:5,6
applying (1)	176:2	149:4;202:24	avoiding (1)	bait (3)
139:11	Argentinian (1)	assigning (1)	147:17	145:19;164:1,5
appreciate (24)	174:18	21:3	Aw (1)	baked (4)
14:9;19:20;25:8,21;	argue (1)	assistance (2)	208:24	93:24;156:18;
43:19;50:1;65:14;	197:13	47:12;60:21	aware (4)	158:16;169:5
67:4;68:21;72:23;	arguing (1)	associations (1)	15:19;41:14;108:1;	bakery (2)
74:5;85:22;89:2;	197:16	110:20	126:3	92:22;104:8
90:19;92:13;106:2;	arguments (2)	assume (2)	away (6)	baking (2)
112:15;116:11;131:9;	198:6,15	16:9;117:6	7:19;58:15,17;	102:16;124:6
166:8;188:1,16;	arms (3)	assuming (1)	110:3;170:10;176:24	balance (1)
189:12;200:5	9:8;10:18;16:5	16:8	awesome (4)	204:2

balanced (2) 175:23:196:14 147:17;204:17 behalf (1) ball (1) 44:12 91:15 behind (7) balling (1) 43:5,5;69:14; 154:17 banker (1) 111:25;114:7 27:20 benchmarking (1) bar (1) 39:10 78:17 beneficial (1) 155:9 barrier (5) 17:11;46:17;60:10; benefit (6) 72:5;119:15 barriers (4) 39:11;60:9;169:18; benefiting (2) 170:3 40:16,21 **based** (14) benefits (5) 25:18;41:5;45:14; 46:8,13;55:5;63:20; 67:11;102:17 77:6;78:8;98:1; benign (1) 128:11;130:5;168:13, 128:25 16 best (12) bases (1) 159:23 basically (10) 62:17;103:15; 166:14;186:10 better (18) 121:12;122:21; 147:12;156:13,21; 161:18;162:12; 199:23 basics (1) 39:18 basis (1) 85:11 better-known (1) basket (1) 98:18 173:7 beverages (3) batching (1) 109:14 beyond (7) battle (1) 151:2 beans (1) 155:16 123:7 bicarbonate (1) bear (3) 76:12 10:15;21:5;89:14 bifidus (1) bears (3) 174:14 123:8;167:16,16 big (14) beautiful (1) 207:17 beauty (1) 20:3 become (2) 208:6 21:22;172:19 bigger (2) 118:1;187:13 becomes (2) 109:3;146:17 biggest (1) 129:3 bed (1) 140:20 bill (2) 13:23;72:11 beer (1) 133:25 binder (1) beets (1) 89:11 116:16 biochemically (1) begin (1) 116:24 16:19 biodiversity (1)

biological (1) 141:19 biologist (1) 108:25 bioremediation (1) 101:21;110:11; 178:6 bit (47) 8:21;13:4;14:19; 15:17,18,20;16:13; 22:2;26:13,18;28:16; 29:7;30:23;31:9; 32:13;42:25;44:16; 11:18;54:5;57:6; 52:12;56:17,23; 65:23;157:9;161:21 61:14;70:23;99:13, 21;107:18,21;121:9; 124:17;125:23; 132:18,18;134:6; 10:3;16:6;49:11; 139:21;145:10;147:8; 155:6,22;162:11; 170:17;172:9,15; 184:16;186:2;198:18; 200:20;203:4;204:14 22:24;37:14;59:21; bite (1) 90:11;107:4,6,14; 143:20 bites (1) 108:25;124:9;150:24; 34:15 black (4) 8:16;14:10;19:13; 7:8;12:6;138:25; 44:12,17;59:13; 139:2 67:20:68:14:70:7: bleach (1) 78:12:92:23:109:22: 144:18 bleached (1) 124:19:161:6.9: 186:12,14:193:17 123:2 bless (1) 70:21 blessed (1) 93:2:104:9:169:6 22:21 blown (2) 7:19;193:22 13:5;31:17;96:7; 99:7;100:12;142:15; **Board (387)** 0:22;8:14;9:3;11:3; 14:23;15:22;16:22; 19:19;20:16,17;21:2; 22:1;23:16,19,21,25; 24:2,4,6,8,10,12,19, 23,25;36:2;38:14; 0:25;14:4;34:15; 39:14,25;40:3,24; 43:6,12;72:11;92:11; 43:3;44:4,7;54:19; 109:3;126:5;142:24; 55:16;56:16;57:21; 157:4;205:1;206:23; 58:10;59:23,25;61:5, 8;62:12,15;63:23; 64:1,6,9;66:4;67:19; 68:12,13,21;69:4; 72:9,22;73:25;78:14; 79:1,5,9,11,13,15,17, 19,21,23;80:2,4,6,12, 19,21,23,25;81:2,4,6, 10,12,14,16,22;82:1, 3,5,7,9,11,13,17,19, 21,23;83:6,11,13,15, 17,19,21,25;84:2,4,6, 10,18,23;85:23;86:7, 11,13,15,17,19,23,25;

87:2,4,8,10,15,19,21, **body** (4) 23.25:88:4.6.8.10.14. 16,18,23;89:18; 90:19;92:4,10;93:19; 94:11,13,21;95:7; 96:5;103:18;105:13, 16,18,23;106:1,19; 108:2;109:6,11,17; 110:6;111:8,10,16,23, 25;113:5,21,24;114:1, 6;116:10,14;117:6; 118:7,17;119:9,11,19, 21,23,24;120:6,18,22; 121:21,22;122:15; 123:13,16;124:5,23; 128:13;129:23;131:8, 11,12;132:1,3,9; 133:15;135:8;136:12, 16,18,19,20,21,25; 138:3,5,6,10;140:1,6, 7,8,9,12;141:12; 142:18,21;143:5,8; 145:16;146:1,3,8,10, 11,23,24;147:3;148:7, 23;150:11;151:25; 152:7,16,25;153:3,13, 20;154:9,18;155:12, 21;156:3;157:15,17, 18;158:7,12;159:5; 161:5,11,15:163:19, 20;164:2,4,6,7,10,11, 12.15.18.20.23.24: 165:1,9,12,13,15,16, 21;166:5,18,21,22; 167:8;168:21;171:5, 7,14,15,18,20,21,25; 172:11:173:2:176:17; 177:4,5,7;178:3,4,17, 19,20;179:3,24;180:2, 5,9,17,19,23,25; 181:2,4,6,10,14,17,19, 21,23;182:14,17,21, 23,25;183:2,4,8,10, 12,14,16;185:5,10,14, 16,24;186:10,23; 187:2,5,6,23;188:3, 14;189:4,18,24; 190:23;191:2;192:19; 193:20;194:13,16,19, 22;195:1,4,13,16,18; 196:11:197:3.5.7.20; 198:11;199:4,7,11,21; 200:7,17;201:10; 202:1,7,14;203:4,8, 18,21;205:16,25; 206:20;207:21; 208:21;209:7,12,18 Board's (1) 152:17 boat (3) 67:21;177:12,14 bodies (1) 178:7

- Vol. 5 May 15, 2024

130:13;141:19; 145:22;146:13 bog (1) 34:16 bones (3) 144:3;145:2;167:24 border (1) 42:18 **boss** (1) 122:23 botanical (1) 173:12 both (22) 7:20;8:1;37:12; 41:6;64:20;68:1; 75:21;89:16;90:12; 96:10;97:15;98:6; 103:9;104:24;129:21; 136:23;172:15; 176:20;188:5;198:6; 206:11.17 bottleneck (1) 47:15 bounced (1) 172:9 bouncing (1) 172:13 bovine (2) 144:4;145:8 boxes (1) 206:18 bragging (1) 72:25 brain (2) 39:24;161:22 brand (2) 19:13:97:18 brands (3) 41:15,24;42:3 bread (3) 192:23,23,24 breadth (2) 56:20;112:13 break (8) 0:10;73:16;89:5; 132:24;173:3;179:8; 203:5;205:23 breakfast (1) 89:23 breaks (1) 10:8 breeder (1) 85:6 brewed (1) 93:2 Brian (24) 24:1;36:1;39:13; 42:8;79:10;80:20; 82:2:83:10:87:9; 88:15;106:19;120:20, 21;121:21;131:10; 132:12;135:11;

beginning (2)

104:21

- Vol. 5 May 15, 2024

148:3

carbonates (7)

Spring 2024 Meeting	
142:20;164:3;180:4; 181:18;183:9;199:1,	buddy (1) 61:23
20 brief (4)	budget (2) 13:22;40
30:14;96:1;154:23;	buffering (
190:25	93:22
brines (2)	bugs (1)
126:14;137:16 bring (19)	91:13 build (9)
40:18;94:15;101:8;	12:8;14:2
106:20;122:8;123:14;	53:19;68
150:16,18;151:3; 152:8;154:3,5;167:4;	196:22;1 building (1
185:16;186:10,21,25;	10:15;14
188:9;203:15	27:7,8;61
bringing (10) 9:22;15:22;47:9;	154:2;19 built (3)
56:4,19;152:6;166:8;	10:11;13
172:1;188:1;189:12	170:15
brings (2)	bullet (1)
49:12;101:23 broad (2)	31:21 bunch (5)
34:25;98:25	19:7;118
broaden (1)	152:13,1
47:25 broader (4)	bundle (1) 46:21
30:4;113:7;175:13;	bundling (
186:16	47:3
broad-fronded (1)	bunny (1)
174:11 broad-sweeping (1)	123:7 burden (3)
130:7	40:11;43
brokers (1)	burden-fre
26:2 bromide (1)	47:17 bureau (2)
128:4	11:22;17
brought (5)	bushel (2)
13:5;25:14;123:7; 179:16,21	192:25;1 business (1
brown (4)	0:13;21:7
173:16;174:5;	13;57:25
176:4,6 BRUCH (40)	153:21;13 190:17
0:18;14:8;22:17;	businesses
23:11;24:17;25:7;	21:12;11
35:7;39:3;47:8;48:21; 49:2;57:1;58:5,22;	busy (1) 74:3
49.2,57.1,58.5,22, 60:12;64:23;67:3,18;	butcher (1)
68:20;70:13,16;	144:9
72:17,20;73:13; 79:25;81:8;82:15;	buy (3)
83:23;86:21;88:2;	43:24,25 buyer (1)
166:7,19;180:21;	51:3
182:19;189:9;190:21,	buyers (2)
25;191:19;196:19; 208:25	41:18;43 buy-up (2)
Brunquell (1)	54:1,7
189:15 hubbled (1)	byproduct
bubbled (1) 152:2	55:1;126 164:16,2
bucks (4)	byproduct
46:25;47:1;192:25; 193:6	144:7;16
193.0	102.7

	r
ddy (1) 61:23	С
dget (2)	
13:22;40:13	GA GG (12)
ffering (1)	CACS (13)
0	0:8,15,17,24;8:12,
93:22	16;34:14;56:2;68:24;
gs (1)	70:19;183:22;196:21,
91:13	25
ild (9)	
12:8;14:22;27:15;	cadence (2)
	201:12;202:9
53:19;68:25;71:3,3;	calcium (19)
196:22;199:17	78:1;93:14,17,23,
ilding (10)	24;125:9,13,15,16,22;
10:15;14:18;22:9,9;	
27:7,8;61:19;67:19;	126:4,15,25;127:3,7,
	18,24;128:4,6
154:2;195:20	calculation (1)
ilt (3)	130:20
10:11;132:15;	CALDWELL (29)
170:15	24:2;39:14;40:24;
llet (1)	
	43:3;79:11;80:21;
31:21	82:3;83:11;87:10;
nch (5)	88:16;105:23;120:22;
19:7;118:9;122:22;	131:11;132:1,3;
152:13,13	
ndle (1)	142:21;164:4,7,11,18,
	23;171:15,20,25;
46:21	180:5,9;181:19;
ndling (1)	183:10;199:21
47:3	calendar (1)
nny (1)	45:5
123:7	
	calendars (1)
rden (3)	208:9
40:11;43:6;58:3	caliche (3)
rden-free (1)	137:14,14,15
47:17	California (1)
reau (2)	
11:22;17:5	201:14
	CALL (7)
shel (2)	0:4;11:11;14:25;
192:25;193:6	56:5;132:6;136:8;
siness (13)	201:2
0:13;21:7,11;29:2,	called (2)
13;57:25;58:3;	
	44:22;139:1
153:21;185:7,9,11,23;	calling (2)
190:17	77:25;201:5
sinesses (2)	call-out (1)
21:12;115:17	38:7
sy (1)	came (15)
74:3	
tcher (1)	11:16;14:24;63:2,
	10;86:6;101:20;
144:9	105:25;108:10;109:1;
y (3)	123:19;136:1;148:17;
43:24,25;55:11	165:17;170:18;208:4
yer (1)	
	camped (1)
51:3	114:18
yers (2)	can (142)
41:18;43:13	7:2;8:14;10:25;
y-up (2)	12:18;14:10,11;15:9;
54:1,7	
	16:13;18:1,17,25;
product (5)	19:12;20:1,21;27:4,
55:1;126:25;	23;29:1;31:3,14,20;
164:16,22;169:8	32:19;37:6,9,20;
products (4)	39:10;42:10;43:10,
144:7;162:4;163:6;	
165:2	15;44:11,17;46:10,
103.2	15;47:14,16,20;
	1

48:24:49:25:50:8.15: 51:11:52:6.13:58:24: 60:11,15,22;61:10; 63:19;64:17;65:2,5,5, 15;66:22;67:16,22; 68:12,14;69:13;70:8; 72:2,5;76:15;85:16; 91:6;92:13;93:24; 99:18;101:14;103:9, 23;106:5,6;107:14,18, 21;110:6;113:10,19; 116:20;117:25; 119:22;124:18; 125:10;126:20; 131:19;132:16; 136:16,19;140:23; 143:22;146:18,21,21; 147:12;148:25;149:6; 151:19,19;152:4,14; 153:22;155:22;157:5, 15,16;158:15,17; 159:22,23,25;162:8; 163:24;167:14,23; 172:10,13;179:16; 180:8;181:12;185:5; 186:12,14;187:17,23; 188:5,5,6;189:1,17, 18;190:7;191:7; 193:13;194:3,5,16; 196:11:197:3:206:3. 6,20 Canada (5) 76:21,25:139:6; 162:17:175:7 Canadian (5) 134:11;137:20; 156:20;158:1.25 candidate (1) 171:16 candies (2) 148:3;167:15 canned (1) 158:20 cap (1) 13:20 capacity (7) 53:24;57:13;68:19, 24;69:12,13;184:1 capsule (1) 138:19 capsules (3) 138:13,21;167:14 capturing (1) 11:4 carbon (2) 140:19;184:3 carbonate (25) 75:8,9,10,11,21,21; 76:1,11,11,13;77:3,4; 78:2,7,7,25;79:1; 80:11,13;81:21,23; 83:5,7;127:7;158:23 carbonated (1)

76:8,8,14,17,19,23; 77:9 cardiovascular (1) 161:23 care (5) 109:2,4;133:6,7; 145:22 careful (2) 42:1;195:21 Carolyn (32) 24:5;51:21;62:14; 65:8,18;66:2;79:14; 80:24;82:6;83:14; 84:20;85:21,25;86:3, 9,12;87:17,18;88:24; 93:18;94:20;95:3; 119:9;155:11;181:22; 183:13;195:3,19; 196:8,15;197:2,19 Carolyn's (2) 49:23;67:20 carriers (1) 101:8 carries (3) 25:3;182:1;183:19 case (2) 142:11;154:21 cases (3) 101:1,2,14 cashiers (1) 122:4 casing (2) 143:11,20 casings (6) 143:15,17;144:10, 16,17;167:10 catalyst (1) 124:21 catch (3) 26:18:102:5:199:9 catch-(1) 38:24 catching (1) 39:1 catch-up (1) 39:8 categories (1) 7:13 category (2) 77:2;140:3 cattle (2) 162:3;167:24 caught (4) 162:5;163:14; 164:8;185:21 cause (3) 52:6;110:15,15 cautious (3) 90:15;194:11,18

193:6

ceiling (1)

55:5

Spring 2024 Meeting	Γ	Γ	Γ	May 15, 2024
celebrate (1)	30:21;104:9;109:8;	204:4;205:15;206:9,	chemically (1)	186:20
73:11	161:24;206:16,17	19;207:1,3;208:18,24,	167:21	clarification (3)
celery (17)	CFR (2)	25;209:2,5,11,14,16,	chemicals (2)	127:1,15;167:12
114:4,5,8,13,25;	98:2;147:11	20	123:3;160:4	clarified (2)
115:8;117:3,11,12,25;	CHAIN (11)	Chairs (1)	chewable (1)	126:23;154:14
118:7,10;119:16,17;	25:6,10;26:2;27:19;	184:24	34:15	clarifying (3)
120:16;121:11;	30:5,11;32:23;47:11;	challenge (5)	chews (1)	12:2;123:17;125:19
123:21	70:23;183:23;193:16	18:24;58:8;73:1;	129:14	clarity (9)
cellulose (2)	CHAIR (296)	141:4;192:20	chickens (1)	26:6;34:4,8;47:21;
144:14,15	0:5,15,18,24;14:8,	challenges (8)	163:25	124:10;142:12;
Celsius (1)	13;15:12;16:11;19:4;	18:14;19:1;52:6;	chicory (4)	150:20;151:17;
158:24	21:1;22:15,17;23:10,	56:6,8;61:2;71:5;78:4	75:24;78:5;80:14;	155:19
Center (1)	11,13,20,22,24;24:1,	challenging (4)	83:8	class (1)
176:2	3,5,7,9,11,13,15,17,	159:24;170:17;	childhood (1)	195:7
centering (3) 71:24;117:19;118:3	18,18,20,24;25:1,4,7;	194:25;197:1	144:8 Chile (1)	classification (16) 78:24;81:21;84:15;
centralized (1)	35:7;36:1;38:7;39:3, 13;44:1,5,19,25;	chance (1) 124:3	137:13	86:6;98:22;107:1,20;
18:9	46:24;47:7,8;48:21,	change (21)	chime (1)	129:4,11;130:8,10,12,
cents (2)	23;49:2;56:15;57:1;	8:4;29:3,16;48:19;	40:25	17;131:4;142:12;
193:1;194:7	58:5,22;59:24;60:12;	49:10,13,14;56:5;	China (2)	159:24
centuries (2)	61:4;62:14;63:16;	60:17;63:6;65:18;	174:17;177:11	classifications (3)
101:12;102:15	64:23;66:3;67:3,15,	69:1;70:7;74:15;	chloralkali (2)	130:5,25;131:1
cereal (2)	18;68:16,20;70:12,13,	96:22;121:9;134:22;	126:21,24	classify (3)
156:17;159:17	15,16;71:15;72:7,17,	148:20;179:20;	chloride (13)	79:1;81:23;86:7
cereals (1)	19,20;73:13,15,18,21;	201:22;204:7	76:10;125:10,13,	clause (3)
89:23	75:12;78:22;79:6,8,	changed (1)	15,16,22;126:4,16,25;	97:2;120:8;139:11
certain (13)	10,12,14,16,18,20,22,	150:1	127:3,18,24;128:6	cleaner (1)
18:16,17;47:22;	24,25;80:1,3,5,7,7,10,	changes (4)	chocolate (1)	193:6
99:1;103:21;108:20;	18,20,22,24;81:1,3,5,	31:24;91:14;96:24;	104:8	clean-in-place (1)
118:22;160:4;165:6;	7,8,9,11,13,15,17,17,	141:4	choice (2)	112:23
168:15;193:13;195:1;	20;82:2,4,6,8,10,12,	changing (5)	117:19;123:13	cleanly (1)
204:19	14,15,16,18,20,22,24;	49:15;120:4;	choices (1)	154:20
certainly (3)	83:1,1,4,12,14,16,18,	152:19;179:17,19	117:20 abaaga (4)	cleanup (2)
41:14,17;43:20 certainty (1)	20,22,23,24;84:1,3,5, 7,9,11,11,14;85:21,	channeled (1) 85:14	choose (4) 30:24;43:24,24;	152:6;153:10 clear (15)
155:8	24;86:12,14,16,18,20,	character (1)	45:24	8:5;14:25;16:9;
certificates (4)	21,22,24;87:1,3,5,7,9,	179:21	churning (1)	22:12;33:7;39:24;
26:3,5;39:5,7	11,11,14,20,22,24;	charcoal (7)	63:18	47:22;60:15;121:4;
CERTIFICATION (11)	88:1,2,3,5,7,9,11,13,	140:10,11,12,14,17,	CIP (2)	126:11;127:23;
0:16;10:14;11:15;	15,17,19,19,22;92:1,	22;141:5	112:22,22	132:11;151:8;199:13;
13:19;17:17;93:4;	15;93:9,16;94:19,22;	chard (1)	circle (1)	200:4
95:10;106:9;109:8;	106:22;111:6,9;	123:21	94:5	clearer (1)
122:21;152:1	113:6,22;117:8;	charge (1)	circles (1)	70:7
certified (3)	118:15;125:16;132:6,	7:12	188:22	clearinghouse (2)
34:17;46:9;163:15	21,25;152:11,24;	charm (1)	citation (1)	18:18;22:19
certifier (4)	153:2,5;154:2;	133:20	44:9	clearly (2)
34:9;47:9;99:16;	155:24;159:10;166:7,	check (1)	cited (1)	34:23;113:14
110:24	19;169:2;172:6;	165:24	170:5	cleave (1)
certifiers (39) 27:20,21;29:24,24;	179:7,15;180:1,3,7,	checking (1) 44:4	CITRATE (7) 93:14,15,15,17,18,	144:7 cliff (1)
30:3,24;31:3,14;	11,18,20,21,22,24; 181:1,3,5,7,9,11,16,	44.4 checks (1)	18,23	99:18
32:17,21;33:17;34:5;	18,20,22,24,24;182:2,	206:17	citrates (2)	CLIMATE (9)
35:13;40:9,13;41:7;	7,10,12,18,19,20,22,	cheese (2)	93:17,20	48:25;49:3,10,13,
42:13,23;43:6,8;45:1,	24;183:1,3,5,7,9,11,	141:24;169:6	citric (12)	14;52:2;60:17;69:1;
18;46:7;47:6;77:23;	13,15,17,17,21;185:8,	cheeses (4)	89:10,13,16,17,20;	208:13
91:17;107:15,23;	12;186:22;187:1,3;	106:10,11;157:22;	90:2,22;91:9,11,19;	climate-induced (1)
110:21;115:17;	188:13;189:7,9,23;	158:19	93:21;108:12	49:16
127:16,25;128:11;	190:18,21,25;191:19;	chelant (1)	citrus (1)	climate-smart (3)
141:9;150:21;152:9;	193:19;194:8;195:3,	89:21	74:14	7:14;186:5,19
169:22;170:21,23	15;196:18,19;197:6,	chelating (1)	city (1)	climatic (2)
certify (2)	19;198:2;199:1,6,20;	158:17	134:1	51:2;55:18
117:21;122:25	200:6,16;201:9;	chemical (2)	claim (3)	close (7)
cetera (6)	202:13;203:1,20;	121:14;126:19	44:11;156:18;	62:23;70:25;167:3;
	1	1	l	l

- Vol. 5 May 15, 2024

Spring 2024 Meeting				May 15, 2024
169.24.209.12.19.	color (5)	19.57.2.67.25.69.12.		20.4 4.22.19.22.2.
168:24;208:12,18;	color (5)	18;57:3;67:25;68:13;	commodity (1)	30:4,4;32:18;33:3;
209:21	12:5;112:18;	70:21;72:20;73:5;	41:6	42:17
closed (1)	141:24;142:4;175:23	78:6,23;86:4;90:12;	common (4)	complicated (10)
151:11	Colorado (1)	91:24;92:15;93:12;	35:12;66:22;99:2;	38:23;56:12,18;
closely (3)	18:22	94:1,1,17;96:2;	126:22	94:23;115:23;118:18,
20:8;38:20;52:7	coloration (2)	104:24;105:3,6;	commoners (1)	21;120:5;159:24;
closer (2)	144:23;145:24	106:23;107:4;110:19;	7:20	168:7
118:25;170:15	colors (3)	111:7;112:12,19;	commonly (4)	complications (1)
closest (1)	142:5;184:13,15	114:2;115:5;120:24;	102:15;103:20;	168:13
16:2	column (1)	127:20;132:19;	104:7;126:16	complimentary (1)
CLOSING (1)	140:20	134:25;136:1,7,9;	communicate (1)	192:1
207:2	combinations (1)	137:25;138:7;139:9;	29:12	component (4)
closure (1)	170:18	140:2;141:7;142:19;	communicating (1)	71:19;117:2;
150:18	combine (1)	148:21;149:21;	60:19	144:22;188:22
closure's (1)	75:15	150:15,19;152:13,20;	communication (2)	composition (1)
153:10	combo (1)	153:14;155:21;	18:18;22:10	130:23
coalescing (1)	75:17	157:10;158:4;159:3,	communities (1)	compost (2)
50:19	comfort (2)	6;160:18;161:12;	16:24	34:22;184:7
coalition (1)	31:5;108:20	162:25;165:17,22;	community (44)	compounds (2)
115:11	comfortable (3)	166:25;167:5;169:21;	7:12;8:8;10:16,22;	111:2;159:18
coarse (1)	65:4;111:3;206:16	175:10;180:12;	20:18,22;21:22;	comprehensive (5)
174:11	coming (20)	185:18;187:3;189:20;	25:18,23;26:15;28:3,	99:8;100:15;113:9;
Coast (2)	13:25;15:14;26:6;	196:16;198:4,12,15,	25;49:25;50:20;	130:15;131:5
200:23,24	37:7,10,12;38:20;	25;199:10,22;201:11,	52:10;53:25;54:6,11;	comprised (1)
coating (1)	39:20;69:19;95:2;	24;202:11;203:23;	55:2;58:24;59:18;	144:12
138:17	108:14;124:2;141:8;	204:3;206:11,14,21;	60:23;61:10;64:20;	compromise (1)
cobs (1)	150:19;184:13;	207:16;208:8	65:22;69:6;73:6;	53:20
140:25	186:14;195:23;	commercial (22)	104:14;107:25;111:4,	computer (1)
code (1)	196:16;198:1;208:7	76:16;90:6,8;91:12,	18;112:7,13,16;115:9,	206:16
150:3	commend (1)	25;120:8,17;127:12;	16;145:6;162:18;	conceivable (2)
Codex (4)	23:8	139:11,16;145:8,10;	166:1;168:17;186:10,	116:4,6
76:21,22;162:20;	comment (32)	146:13,20,22;160:13;	14;189:19;205:25	concentration (1)
175:7	7:22;8:1;15:12;	161:4;167:25;171:17,	companies (5)	168:6
codifying (1)	16:13,20;17:13;18:3;	19;172:16;174:1	41:13,23;42:3;	concept (1)
13:16	19:22;22:16,17;27:2,	commercialization (1)	155:7;177:21	90:8
coffee (2)	11;34:1;44:3;48:4;	139:17	company (3)	concepts (1)
10:7;122:11	72:8;94:6;103:17;	commercialized (1)	46:9;139:22;174:19	67:8
coffeeshop (1)	104:23;108:21;	119:4	comparatively (2)	concern (17)
72:4	114:20;145:17,18;	commercially (10)	51:5;55:25	11:16;36:3;60:8;
cohesive (1)	177:20;179:19;	97:2;102:12;103:5;	compare (1)	63:12;77:12,17;
203:24	189:12,25;197:12;	137:12,17;143:12;	66:9	78:10;91:22;99:14;
collaborating (1)	199:5;202:18;204:13,	146:6;160:14;168:9;	compared (1)	115:8;118:14;127:8,
92:6	16	172:19	54:5	10;150:19;169:12;
Collagen (24)	Commentators (1)	commissioner (1)	compete (1)	177:16;194:23
143:6,7,10,11,12,	103:19	201:17	48:16	concerned (3)
14,17,17;144:2,5,12,	commenter (8)	commit (2)	competition (3)	28:21;99:14;117:19
13,17,22;145:4,7,12,	13:8;112:21;128:5;	155:22;206:24	26:25;194:12;	concerns (22)
15,22;167:10,20,21,	137:25;164:16,24;	commitment (3)	196:12	29:15;35:2;54:14;
24;168:5	170:4,9	7:14;50:6;74:8	competitive (1)	55:2;94:16;101:24,
colleague (2)	commenters (16)	committed (1)	47:5	25;103:7,8;111:3;
28:17;69:17	11:5;54:15;59:2;	198:19	competitors (2)	129:2;130:14;148:15;
collect (2)	69:6;90:4;110:18;	committee (10)	19:7,9	149:7,8;158:2,3;
30:8;107:15	127:23;128:3,23;	0:24,24;7:4;25:14;	complete (2)	159:2;163:1,15;
collected (1)	129:21;142:13;	56:2;61:12;72:10;	108:16;120:23	177:19;198:15
22:24	160:21,23;163:11;	85:12;94:3;201:15	completeness (1)	concessions (1)
collection (2)	176:10;202:3	committees (1)	13:15	176:5
27:22;51:21	comments (107)	110:2	complex (4)	conclude (1)
collective (1)	10:12;11:17,19;	committee's (1)	7:9;60:14,14;	48:24
92:9	12:11,12,15,21;13:12,	60:6	159:22	concludes (1)
collectively (3)	19;14:14,25;23:14;	committing (1)	complexity (1)	179:5
21:25;95:18;98:8	26:20,21;28:11;	206:24	36:3	concrete (1)
collegial (1)	30:14;35:25;48:21;	commodities (1)	COMPLIANCE (8)	106:20
43:15	50:11;53:2,4,16,18,	30:22	0:16;25:20;29:21;	condense (1)
	1	1		

96:21 condition (1) 32:12 conditions (1) 134:9 conduct (1) 30:24 conducted (2) 39:9;45:4 conducting (1) 29:25 confectionary (1) 92:22 confectioneries (1) 169:6 confer (1) 203:25 confidence (4) 31:20;33:17;44:11; 119:14 confidential (1) 43:17 confines (1) 43:17 confirmed (2) 127:25;142:13 conflicting (1) 12:11 confused (3) 166:2,2,3 confusing (1) 125:23 confusion (1) 172:10congratulations (1) 207:24 Congress (4) 13:22;14:1;72:15; 196:10 congressional (1) 13:13 conjugation (1) 98:12 conjunction (1) 141:2 connect (1) 72:14 connected (4) 17:7;59:20;62:1; 172:18 connection (1) 207:11 connective (1) 144:3 conquer (2) 38:10;66:23 consensus (1) 117:13 conservation (3) 9:12:17:18:18:21 consider (5) 90:6;128:4;148:16; 171:11:175:14

consideration (5) context (6) 21:23:50:22:67:12: 98:21:202:5 considerations (3) 16:17:90:17:97:17 considered (9) 52:18 98:4,6,9,14;101:19; 103:8;163:2;168:1; 205:6 considering (2) 120:12;142:16 consistency (4) 47:21:110:16: 130:17;152:8 consistency's (1) 102:25 consistent (5) 12:13;31:1;69:11; 110:14:191:18 consistently (1) 191:5 constantly (1) 15:23 constraints (6) 63:7;68:19,24; 184:1;188:19;196:24 37:12 consultants (1) 115:18 55:4,7 consulting (1) 125:7 70:2 consume (1) 191:7 110:7 consumer (15) 14:18:71:19:108:5: 115:22;117:18;121:8; 124:25;130:21; 147:18:188:10; 190:16:192:21: 35:12 195:22,25;196:3 control (6) consumers (7) 28:8;44:12;123:6; 187:17;190:3;196:5; 208:14 152:3 consumers' (1) 115:1 consummate (1) 21:20 consumption (2) 102:10;174:19 contain (2) 17:22;107:12 containing (2) 115:20,21 contaminants (1) 85:8 163:16 contaminated (2) 37:7,9 contamination (5) 29:22;34:21; 102:19:160:3,6 content (4) 77:1:161:20; 171:10:202:22

30:3:106:20: 109:22:145:25; 175:13:202:6 continual (1) continuation (1) 136:10 continue (14) 9:15;11:14;12:16; 13:11;15:15;20:22; 22:23;68:23;110:25; 111:1:112:7:150:14: 163:11:187:12 continued (7) 14:5;20:20;111:17; 118:6;122:13;132:20; 162:25 continues (3) 114:14,15,15 continuing (1) 166:25 continuous (3) 10:21:26:10:53:4 continuously (1) contract (2) contracting (1) contribute (1) contributing (3) 7:25;161:22;170:6 contribution (1) 100:13 contributions (1) 15:17;89:21;93:22; 126:7;128:23;157:19 controversial (1) controversy (1) 114:16 conventional (23) 21:20;41:19;45:23; 51:6;53:9;54:12,17, 24;55:6;56:1;57:8,9, 13,16,23;66:15;85:7, 8;117:12;124:16,20; 146:18:169:13 conventionally (1) conversation (13) 25:22;35:6;52:15; 55:1;72:4;116:9; 145:25;186:20; 193:20;194:5;196:22, 25;197:14 conversations (8) 8:15:38:11:47:16; 52:11;65:11;71:14;

170:25:202:6 conversion (3) 18:1;55:5;116:24 converted (2) 162:6,15 convey (1) 28:19 convince (1) 7:2 convinced (1) 187:24 convincing (1) 18:1 cooked (1) 158:18 cooking (2) 137:8;168:1 cool (6) 59:3;185:24;187:5; 201:22;205:9,9 **co-op** (1) 194:13 cooperative (1) 208:3 coordination (3) 11:6,15;16:5 copper (1) 106:1 core (1) 169:9 corn (1) 140:24 cornfield (2) 53:8.9 corporations (1) 21:13 correctly (3) 86:3;152:11;177:24 corroborate (1) 164:17 cosmetics (2) 167:19:173:22 **cost** (8) 11:20;46:3,3;54:3, 7;146:16;195:22; 196:6 cost-effective (1) 27:12 costs (17) 10:13,14;11:15,18; 13:19;190:2,5,15; 191:5.11.12.13: 192:17,21;193:24; 195:16;196:1 couldn't (1) 208:22 counsel (1) 17:20 counterparts (1) 54:17 counties (1) 64:10 Counting (1)

- Vol. 5 May 15, 2024

89:15 countries (5) 39:12:137:6; 174:16:175:25: 177:11 country (5) 9:24;26:7;37:1; 40:19:69:16 County (3) 64:11,11:201:16 couple (21) 0:20;11:16;12:21; 48:5;58:23;74:10,12; 108:24;109:24; 127:12;169:24; 176:23;183:22;184:3, 8;196:20;205:21; 206:8,8;207:15;208:7 coupled (1) 59:16 course (5) 29:6,9;43:5;142:22; 209:3 court (1) 60:22 cover (3) 16:7;67:1;99:4 coverage (14) 53:6,11;54:1,4,7,9; 55:8,10,12,14,24; 57:15,20:61:22 coverage' (1) 58:15 covered (5) 33:22:96:8,17; 133:21:156:15 CPGs (1) 110:21 creams (1) 167:18 create (5) 56:5:57:23:91:10; 97:8;194:21 created (2) 62:24;138:24 creates (2) 85:2;134:8 creating (5) 9:23,23;12:20; 156:25;164:21 creative (1) 17:10 credit (1) 58:18 crimper (1) 50:14 criteria (5) 31:8;33:25;64:5; 142:3.3 critical (2) 7:11;112:21 crop (35) 9:12;49:1,3,18,20;

- Vol. 5 May 15, 2024

Spring 2024 Meeting				May 15, 2024
51 2 15 17 56 7 21	107 04 100 7 104 04	0.20.12.25.40.6	J	Januar (2)
51:3,15,17;56:7,21;	127:24;132:7;134:24;	0:20;13:25;49:6;	de-greening (1)	desserts (2)
57:10;61:20;62:24;	144:15;148:11;	51:23;145:16;205:21;	74:14	89:24;167:17
63:21,23;64:1;65:4,	150:11;159:10,14;	207:12	degrees (1)	detail (6)
13;66:5;67:10;68:3;	167:3;171:18	DC (1)	158:24	19:24;30:2;162:11,
85:11;121:13;131:1;	custody (1)	58:12	deliberate (1)	11;174:24;177:9
165:25;178:22,23;	30:11	deadline (1)	56:13	detailed (3)
183:24;191:9,10,20,	customers (2)	208:11	deliberated (1)	104:15;105:18;
25;192:1,2;202:19	121:24;193:10	deal (4)	166:16	177:8
cropping (1)	customized (3)	104:23;106:15;	deliberation (1)	details (3)
36:24	54:13,23;65:23	124:18;150:15	196:25	29:18;44:22;161:17
crops (9)	customs (1)	dealing (3)	delivered (1)	detection (1)
45:22;133:22;	42:17		52:3	33:11
		7:8;37:5;151:13		
134:6;165:21,22;	cut (1)	deals (2)	delivering (1)	determine (3)
166:9,14,16;184:3	193:17	72:1;149:5	187:16	34:6,21;40:4
cross (1)	cute (1)	dear (1)	demand (7)	determined (3)
50:8	209:5	14:17	14:18,22;15:2,9;	76:2;100:9;206:4
cross- (1)	cycle (2)	debate (5)	173:25;191:8,9	determining (2)
92:5	74:5;116:6	144:1;145:4;197:8,	demonstrate (1)	37:15;54:8
cross-collaboration (1)		18;205:4	120:17	detrimental (1)
8:11	D	Debbie (1)	denying (1)	203:8
cross-functional (1)		194:10	43:21	develop (2)
67:9	dad (1)	decades (1)	department (2)	19:8;52:24
crux (1)	209:7	19:12	122:6,6	developed (3)
129:15	dairy (2)	December (1)	depending (3)	100:5,6;176:6
		75:20		
crystal (1)	157:20;167:18		16:8;170:17;204:15	developing (2)
91:15	damage (1)	decide (2)	deploy (2)	71:18;163:13
crystalline (1)	53:10	206:6,7	59:7;192:16	development (7)
134:8	D'AMORE (21)	decided (2)	deployed (2)	9:10;15:1;17:8;
CSRNs (1)	21:2;24:4;79:13;	17:19;75:15	53:11;65:6	20:9;97:9;161:22;
97:21	80:23;82:5;83:13;	deciding (1)	deploying (3)	194:1
CST (1)	86:11;88:18;95:7;	204:24	51:11;53:14;57:10	developments (3)
0:2	105:16;108:2;176:17;	decision (7)	deployment (2)	9:10;20:7;208:8
cultivation (3)	177:5;178:17;181:21;	32:10;33:24;	71:10;192:7	dewatered (1)
71:22;173:24;	183:12;193:20;	107:19;118:5;167:3;	deposits (3)	169:10
174:25	194:22;195:1;199:4;	175:16;195:14	134:4;137:14,15	DHA (6)
culture (3)	200:7	decision-making (1)	depressing (2)	149:21;150:10;
100:23;101:6;	Dane (1)	117:20	43:13;68:9	151:7,10,22;155:1
100.23,101.0, 104:12	64:11	decisions (4)	depth (2)	diabetes (1)
		41:11;130:7,17;		161:23
cultures (1)	dare (1)		131:9;134:18	
101:6	58:15	131:4	derive (2)	dialogue (3)
cups (1)	dark (1)	dedication (1)	100:3;108:20	171:12;187:23;
122:11	144:23	74:9	derived (10)	188:15
curbing (1)	darn (1)	deem (1)	93:20;96:14,16,16,	dicamba (1)
29:14	203:15	125:25	17;100:4,5;104:2;	32:4
cured (3)	data (7)	deep (1)	139:17;159:12	dice (1)
115:2;121:2;123:17	69:14;119:5;	99:16	descendants (2)	108:15
curing (3)	121:22;135:24;146:7;	deeper (1)	133:5,11	diet (1)
114:11,12;117:5	202:24;206:22	146:20	describe (3)	116:19
curious (8)	database (4)	deferred (3)	40:6;44:12;151:19	dietary (6)
16:19;36:8,14;60:5,	63:21;126:1;	179:9,14,15	described (1)	133:24;137:3,6;
7;116:15;150:23;	151:11;160:11	deficiency (4)	148:12	138:13,21;147:20
190:1	date (2)	137:9,23;157:4;	descriptions (1)	diets (1)
current (18)	10:3;49:10	163:22	128:1	147:18
35:10;45:5;48:12;	dates (1)	defined (2)	deserved (1)	difference (5)
56:3;57:3;58:9;91:17,	208:7	98:2;145:1	205:22	23:9;51:24;61:13,
21;97:1;98:1,3,7;	day (20)	definitely (7)	designation (1)	21;173:11
104:12;141:5;147:9,	0:6,7,19;19:25;	20:15;22:20;36:21;	77:2	differences (2)
12;149:17;154:25	20:2;22:3;23:4;28:1;	47:16;61:15;172:3;	designed (2)	19:1;62:18
currently (22)	47:19;55:9;65:15;	201:22	95:9;99:1	different (30)
16:3;45:18;46:7;	113:1;139:18,18;	definition (1)	desirable (1)	16:5;18:8;25:13;
51:22;65:12;74:13,	149:9;173:4;187:24;	35:11	143:20	26:24;28:2,25;38:15;
18;77:18;78:11;	197:8,18;203:7	definitions (2)	desire (1)	45:21;57:24;62:20;
99:10,19;126:10;	days (7)	12:24;98:2	49:19	64:16;89:7;93:21;
	• • •			

spring zoz i liteeting				
109:18;110:20;	124:3	divide (1)	118:25	eat (4)
113:15;126:13;134:8;	discussed (1)	38:10	dramatic (1)	116:16,18,23;
140:24,24;150:21;	168:6	division (1)	131:2	176:15
167:23;170:23;171:2;	discusses (1)	42:17	dressing (1)	EC (1)
173:14;192:7;199:18;	56:9	docket (3)	169:5	97:21
202:22,23,23	discussing (3)	206:1,1,4	dried (8)	echo (5)
	66:8;189:25;205:18	doctor (1)	144:17;168:25;	39:3,7;72:23;
differential (1) 196:6		63:20		
	discussion (73)		169:1,3,7,11,14,19	118:24;188:15
difficult (2)	10:10;14:5;16:14;	document (40)	drink (1)	economic (4)
106:15;144:24	22:3;25:5,9;28:13;	10:11;12:1;13:14;	122:21	58:8;113:3;162:18;
dig (2)	33:21;35:6,24;48:22,	25:5,10;30:11;31:23;	drinks (1)	197:25
34:4;146:20	25;49:4,9,10;55:16;	32:9,21;33:16;48:25;	133:25	economically (1)
digest (1)	56:14;63:10;64:19;	49:5;56:22;60:4,5,18;	drive (1)	10:13
203:25	66:22;68:18,22,23;	62:22;63:10;66:22,	91:12	economics (2)
digging (2)	70:9;75:14;78:15,18;	23;67:24;68:18,23;	driving (1)	113:2;195:5
152:22;155:22	84:21;85:24;89:4,18;	69:3;70:9,17;71:13;	101:15	economists (1)
digitata (1)	90:21;91:25;92:2;	95:24;100:10;107:14;	Drug (1)	197:21
174:21	93:13;102:2;103:17;	149:24;183:24,25;	147:14	edges (1)
diligence (1)	105:21;106:21;	184:2,7,20;185:19;	drying (5)	150:20
74:7	109:12;112:6;120:24;	187:7,14;189:21	75:23;162:13;	edible (4)
diligent (1)	125:5;128:16,21;	documentation (1)	168:7;170:10,12	104:3;138:18,22;
109:4	130:9;135:4;144:20;	127:17	ducks (1)	143:14
Dilip (18)	146:25;149:24;	documents (10)	73:2	edit (1)
19:18;20:16;23:18;	151:18;155:22;156:6;	29:23;30:13;35:15;	due (6)	179:19
80:5;81:13;82:20;	157:11;158:8;166:9,	47:19;48:12;70:19;	40:17;51:2;60:17;	education (4)
84:3;87:1;88:7;140:1;	13;167:5;168:22;	75:14;160:9;178:24,	77:12;144:22;208:8	13:10;20:6;57:4;
161:13;164:5;166:8,	171:8;176:11;179:2,	25	dumb (1)	122:3
20;172:23;176:17;	10;180:3,12;184:19;	dogs (1)	60:11	EEC (1)
181:3;183:1	186:19,25;187:7,8;	120:25	dumping (1)	175:7
DIMITRI (23)	191:6;197:13;200:5	dollar (2)	121:14	effect (2)
24:6;62:15;79:15;	discussions (3)	196:3;197:23	dunk (2)	46:23;77:14
80:25;82:7;83:15;	7:7;166:17;171:6	dollars (1)	60:1;110:13	effective (4)
84:23;85:23;86:13;	disease (1)	194:1	during (10)	29:14;48:9;91:7;
				29.14,48.9,91.7, 96:19
87:19;93:19;94:11,	161:23	domestic (2)	12:22;13:1,2;45:4;	
13,21;119:11,24;	dismissive (1)	43:8;174:2	50:22;100:8;153:21;	effectively (2)
155:12;181:23;	96:15	done (15)	189:20;200:21;201:2	19:17;44:18
183:14;185:16;195:4,	displayed (1)	14:22;36:6;43:11;	duties (1)	effects (3)
16;197:20	55:17	56:18;60:9;61:7;95:9;	89:17	139:8;142:5;157:2
dinner (1)	dispute (2)	99:17;101:18;119:3;		efficacy (1)
108:8	37:22;39:2	150:4;166:4;173:4;	Ε	108:11
dioxide (2)	dissemination (1)	178:21;184:1		efficiencies (1)
78:2;184:4	71:22	done-ish (1)	eager (1)	193:17
direct (5)	distillate (1)	0:11	186:9	efficiency (1)
37:18;41:7;100:25;	159:19	door (1)	earlier (5)	110:7
191:3;193:8	distinct (1)	172:4	134:16;174:5;	efficient (3)
directed (4)	95:21	double (1)	184:9;187:8;199:8	109:19;143:23;
10:9,17;15:25;	distinction (3)	136:25	early (8)	193:3
16:10	101:16;123:15;	double-edged (1)	8:11;22:8;25:24;	effort (1)
direction (1)	134:6	178:18	52:5;57:7;152:3;	43:18
168:19	disturbing (1)	doubting (1)	192:9;206:1	efforts (2)
directly (7)	176:23	109:7	Earth (1)	53:5;137:7
10:22;13:14;20:22;	dive (8)	down (14)	121:23	Egg (1)
41:5,7;76:18;170:24	7:9;8:18;25:16;	11:14;22:16;29:18;	ease (1)	189:15
disclosed (1)	27:4;35:14;52:11;	34:16;44:2;60:11;	47:21	eggbeater (2)
101:3	61:2;99:16	61:25;70:23;74:25;	easement (2)	28:18,24
disclosing (1)	diverse (1)	152:8;153:15;190:22;	17:2;18:21	eight (3)
64:13	10:5	198:1;202:1	easements (2)	19:23;141:7;169:21
discoloration (1)		Downer (1)		either (5)
. ,	diversifying (1)	194:10	17:18,22	41:17;113:25;
143:18	10:16 diversity (2)		Easter (1)	
discount (2)	diversity (2)	dozen (2)	123:7	155:14;205:10;206:7
9:12;46:22	54:21,22	127:20;160:18	easy (4)	elastic (1)
discuss (4)	diverted (1)	Dr (4)	62:4;97:6;109:20;	204:14
37:25;49:14;77:5;	41:19	9:19;11:11;25:24;	121:14	elasticity (1)

Burke Court Reporting & Transcription (973) 692-0660

(10) differential - elasticity

204:19 election (1) 153:1 element (4) 52:19:71:16.18; 154:15 elements (3) 27:9;99:2;120:13 elevate (2) 66:2:166:14 elevating (2) 8:9:22:18 eliminated (1) 137:9 eliminating (2) 191:21,22 else (9) 22:13;46:1,14; 70:14;129:15;164:17; 171:14;175:22;179:4 emcee (1) 207:12 emerged (3) 10:12;21:11;50:19 emergency (1) 205:12 Emily (1) 177:25 emphasize (2) 25:17;172:14 emphatically (1) 97:5 employer (1) 17:14emulsifier (1) 157:21 emulsifying (2) 93:22:158:18 encapsulation (1) 156:24 encompass (1) 107:9 encounter (1) 18:6 encourage (5) 72:13;107:5; 147:25;187:11; 189:18 encouraging (3) 22:25;117:15; 189:16 encumbrance (1) 17:20 end (15) 20:20;47:19;48:10; 55:9;65:14;102:9; 109:8;113:1,1; 121:15;149:9;179:7; 189:11;192:9;199:5 ended (4) 34:6;136:7;204:14; 205:5 endorsed (1)

101:21 enemy (1) 124:13 energy (2) 186:21;203:15 enforcement (9) 7:14;12:13;25:13, 15;41:10;42:12,17; 46:7;48:7 engagement (2) 201:8,16 engaging (1) 42:13 England (1) 175:1 enhance (1) 101:14 enhancer (2) 126:6;128:22 enhancing (1) 38:25 enjoy (1) 43:13 enjoved (3) 8:11;173:7;200:15 enough (8) 58:17,18;70:24; 118:7;119:17;137:5; 151:1;170:1 enriched (1) 156:18 enrichment (2) 148:8:156:10 ensure (7) 10:4;47:12;48:6,15; 128:7;130:16;170:11 enter (2) 52:5:130:20 enterprise (3) 50:9;56:24;58:1 enterprise-type (1) 57:10 entertaining (1) 121:22 enthused (1) 44:10 enthusiasm (1) 71:23 entire (3) 61:9;107:9;195:7 entirely (1) 60:6 entirety (1) 139:12 entities (1) 110:20 entity (4) 179:22;180:5,14; 181:13 entrees (1) 89:24 entrepreneurial (1) 70:22

Entrepreneurs (1) 118:23 entry (3) 39:21:96:21.25 environment (9) 48:13;49:7;77:14; 102:19;103:9;104:21; 129:1;160:5;178:13 environmental (21) 77:11.12:93:5; 101:10;103:7,10,12, 15;127:8,10;134:13; 139:9:160:2:162:24: 163:2;169:12;175:9; 176:21;177:3,19; 178:5 envision (3) 39:19;40:10,12 enzymatic (1) 144:6 enzyme (3) 97:12;104:16; 129:14 enzymes (24) 94:24;95:5;96:3,6, 10,17,23;97:19,21; 98:19;99:25;100:2; 103:25;104:2,5,6,7, 11,17,20;105:3,4; 106:7,11 **EPA** (2) 33:14:110:14 epitome (1) 151:17 Epsom (1) 135:4 EOIP(1) 18:15 equally (1) 33:9 equating (1) 195:21 equipment (6) 112:22,23;174:22; 191:12;192:5,8 equitable (1) 55:25 equity (2) 8:14;62:5 equivalence (2) 77:6,8 equivalency (1) 26:19 Erin (3) 59:3;114:20;121:11 errors (1) 132:17 escapes (2) 192:6,10 especially (12) 7:8:16:23:22:8: 39:14:50:21:64:11: 69:6:70:20:130:5:

156:17;179:1;201:16 essential (11) 16:4:76:2:78:9: 89:22:90:13:93:7: 102:3;128:24;142:14; 150:2:151:5 essentiality (2) 77:21;111:19 essentially (2) 150:6:151:4 ester (1) 184:6 et (6) 30:21;104:9;109:8; 161:23;206:16,17 ethylene (2) 74:13;184:9 EU (9) 36:7,17,20;38:12; 39:5;76:21,23;127:3; 156:22 Europe (3) 36:19;37:8;38:18 European (2) 139:6;162:17 evaluate (4) 91:1,18;97:10; 112:8 evaluated (2) 21:16:107:11 evaluating (3) 30:3:49:18:55:3 evaluation (1) 32:10 even (18) 37:24;44:15;50:21; 57:3;60:14;61:11; 63:7:64:16:68:3:89:1: 99:19;107:12;113:1; 115:6;129:13;178:20; 186:7;192:24 event (3) 51:2,23;52:2 events (4) 20:6;49:16;55:18, 22 eventually (1) 100:14 everybody (10) 0:6,19;23:8;26:4; 62:7,8;73:18;122:9; 132:25:207:4 everybody's (3) 26:25;48:18;54:19 everyone (9) 29:1;72:13;74:1; 75:3;119:2;152:1; 155:3;186:10;207:19 everyone's (1) 74:8 everything's (1) 41:25 evidence (2)

100:25:137:17 evidenced (1) 203:24 exactly (7) 35:17;37:18;58:22; 91:2;93:11;113:24; 199:13 examined (1) 56:2 examining (3) 54:9,9,10 example (12) 34:22:53:8:57:22: 91:5,20;97:17,18; 106:13,20;108:12; 117:15;186:13 examples (6) 51:21;55:18;56:6; 98:11,17;99:3 exceeded (1) 34:22 exceeds (1) 196:5 Excellent (3) 72:17;85:21;159:5 except (2) 150:10;156:8 exception (1) 137:4 exceptional (1) 101:23 excipient (1) 138:17 excited (3) 20:25;29:19;157:10 exciting (2) 0:19:121:18 excluded (24) 91:3,18;94:23;97:9, 12,16,24;98:1,8,14, 20,24;99:15;100:5,10, 15:101:1,21:106:11; 107:2;108:10;142:23; 149:7;184:20 excuse (6) 10:6;24:19;96:14; 97:24;101:24;194:2 execute (3) 47:17,21;50:16 executed (2) 23:7:65:1 executing (2) 39:6;54:21 execution (2) 47:15:60:19 exemption (1) 13:20 exhaustive (1) 99:9 exist (4) 103:11;123:1,9,11 existed (2) 94:9:150:22

- Vol. 5 May 15, 2024

Spring 2024 Meeting	I			Niay 15, 2024
existing (5)	38:21;78:4	failed (1)	38:17;40:18;43:7;	10:2,10,22,23;11:2,
12:8;13:7;69:24;	express (1)	153:5	55:14,22;56:3;58:12;	14;20:19,23;22:19,
70:1;148:24	92:5	fails (3)	59:11;63:4,11,12,13,	23;32:8;48:18;50:20;
exists (2)	expressed (1)	81:19;84:13;88:21	14;66:17;69:8;188:7;	52:13,15,17,21;53:25;
53:7;94:12	55:2	failure (1)	189:12;194:3;197:22;	111:4;112:16;115:10,
expand (3)	expression (1)	153:12	200:1,3,20,21;201:1,	10,10;116:11;124:2;
179:22;184:10;	28:21	fair (11)	1;202:17,19,20	138:6;141:6
200:20	expressly (1)	17:1;41:11;115:14;	farmer's (2)	feeders (1)
expanded (1)	145:21	153:18;187:16,16,17;	68:6;70:20	167:1
174:18	extend (1)	188:7;194:6;196:12;	farmgate (1)	feel (19)
expanding (3)	138:22	205:5	193:16	15:12;26:14;41:24;
10:16;70:2;179:17	extent (1)	fairness (2)	farming (14)	58:16,20;71:8;
expansion (1)	16:15	12:13,14	17:6;21:7,7;48:25;	113:22;115:24,25;
55:13	extra (1)	faith (1)	49:3;50:10,14;52:16;	153:16;155:19;172:1;
expansive (2) 61:15,15	71:4 extract (6)	29:16 fall (17)	56:24;58:25;59:4,8; 66:15;190:7	190:11,13,19;191:14;
expect (2)	85:1,12;86:8;87:16;	10:11;11:4;14:24;	farmland (4)	193:2;197:20;203:25 feeling (2)
116:3;156:5	168:4;173:23	50:4;75:13;135:9;	16:17;17:14,15;	109:9;111:17
expectations (1)	extracted (2)	154:4;156:6;163:9;	21:8	fees (1)
15:20	85:2;162:8	178:21;184:2,18;	farms (2)	47:13
expected (1)	extraction (2)	186:3;188:18;203:6;	57:22;175:1	fell (1)
162:23	159:19:162:10	206:21,25	farm's (1)	207:8
expecting (2)	extracts (3)	falls (3)	49:15	felt (8)
34:23;91:16	84:20,22;159:13	40:12;149:10;	fashion (2)	14:19;30:1;129:21;
expeller (1)	extraordinarily (1)	150:10	146:16,17	135:25;191:16;199:9;
37:16	191:24	familiar (1)	fast (2)	201:18;202:17
expense (2)	extreme (2)	51:10	38:24;89:6	fermentans (1)
40:9,14	49:8;55:21	familiarity (1)	faster (4)	139:3
expenses (2)	extremely (1)	31:4	21:19,21;53:19,19	fermentation (22)
190:9;192:14	11:8	familiarize (1)	fastest (1)	91:11,13;97:7,11,
expensive (3)	extruded (1)	107:6	175:4	15;99:1,2,4;100:3,16;
101.05.102.15.	144.10	famile ()	fast fammand (1)	
191:25;193:15;	144:16	family (2)	fast-forward (1)	102:8,16;104:12;
196:5	eye (2)	174:12;208:20	102:4	102:8,16;104:12; 106:24;107:11;129:9;
196:5 experience (4)		174:12;208:20 fan (2)	102:4 fat (3)	102:8,16;104:12; 106:24;107:11;129:9; 130:12;133:25;
196:5 experience (4) 51:18;62:21;66:6;	eye (2) 185:21;196:12	174:12;208:20 fan (2) 121:17;124:22	102:4 fat (3) 157:3,22;169:4	102:8,16;104:12; 106:24;107:11;129:9; 130:12;133:25; 138:25;142:8,10,12
196:5 experience (4) 51:18;62:21;66:6; 203:19	eye (2)	174:12;208:20 fan (2) 121:17;124:22 fantastic (5)	102:4 fat (3) 157:3,22;169:4 fate (1)	102:8,16;104:12; 106:24;107:11;129:9; 130:12;133:25; 138:25;142:8,10,12 fermented (1)
196:5 experience (4) 51:18;62:21;66:6; 203:19 experienced (4)	eye (2) 185:21;196:12 F	174:12;208:20 fan (2) 121:17;124:22 fantastic (5) 56:18,21;58:17;	102:4 fat (3) 157:3,22;169:4 fate (1) 153:9	102:8,16;104:12; 106:24;107:11;129:9; 130:12;133:25; 138:25;142:8,10,12 fermented (1) 100:22
196:5 experience (4) 51:18;62:21;66:6; 203:19	eye (2) 185:21;196:12	174:12;208:20 fan (2) 121:17;124:22 fantastic (5)	102:4 fat (3) 157:3,22;169:4 fate (1)	102:8,16;104:12; 106:24;107:11;129:9; 130:12;133:25; 138:25;142:8,10,12 fermented (1)
196:5 experience (4) 51:18;62:21;66:6; 203:19 experienced (4) 7:20;55:22;198:8; 203:7 experiencing (2)	eye (2) 185:21;196:12 F face (1)	174:12;208:20 fan (2) 121:17;124:22 fantastic (5) 56:18,21;58:17; 186:19;188:2 far (15) 29:7,11;58:17;	102:4 fat (3) 157:3,22;169:4 fate (1) 153:9 fatty (1) 161:20 favor (10)	102:8,16;104:12; 106:24;107:11;129:9; 130:12;133:25; 138:25;142:8,10,12 fermented (1) 100:22 FERROUS (4)
196:5 experience (4) 51:18;62:21;66:6; 203:19 experienced (4) 7:20;55:22;198:8; 203:7 experiencing (2) 54:17;55:20	eye (2) 185:21;196:12 F face (1) 29:3	174:12;208:20 fan (2) 121:17;124:22 fantastic (5) 56:18,21;58:17; 186:19;188:2 far (15) 29:7,11;58:17; 66:10;77:11;107:17;	102:4 fat (3) 157:3,22;169:4 fate (1) 153:9 fatty (1) 161:20 favor (10) 103:19;104:25;	102:8,16;104:12; 106:24;107:11;129:9; 130:12;133:25; 138:25;142:8,10,12 fermented (1) 100:22 FERROUS (4) 147:2,5;156:7,10
196:5 experience (4) 51:18;62:21;66:6; 203:19 experienced (4) 7:20;55:22;198:8; 203:7 experiencing (2) 54:17;55:20 experimental (1)	eye (2) 185:21;196:12 F face (1) 29:3 faces (1) 151:16 facet (1)	174:12;208:20 fan (2) 121:17;124:22 fantastic (5) 56:18,21;58:17; 186:19;188:2 far (15) 29:7,11;58:17; 66:10;77:11;107:17; 108:3;116:12;127:8;	102:4 fat (3) 157:3,22;169:4 fate (1) 153:9 fatty (1) 161:20 favor (10) 103:19;104:25; 105:4,7;127:21;	102:8,16;104:12; 106:24;107:11;129:9; 130:12;133:25; 138:25;142:8,10,12 fermented (1) 100:22 FERROUS (4) 147:2,5;156:7,10 fertility (4) 165:25;178:22,23; 191:23
196:5 experience (4) 51:18;62:21;66:6; 203:19 experienced (4) 7:20;55:22;198:8; 203:7 experiencing (2) 54:17;55:20 experimental (1) 91:9	eye (2) 185:21;196:12 F face (1) 29:3 faces (1) 151:16 facet (1) 90:22	174:12;208:20 fan (2) 121:17;124:22 fantastic (5) 56:18,21;58:17; 186:19;188:2 far (15) 29:7,11;58:17; 66:10;77:11;107:17; 108:3;116:12;127:8; 137:22;148:25;152:3;	102:4 fat (3) 157:3,22;169:4 fate (1) 153:9 fatty (1) 161:20 favor (10) 103:19;104:25; 105:4,7;127:21; 137:25;158:5;160:19;	102:8,16;104:12; 106:24;107:11;129:9; 130:12;133:25; 138:25;142:8,10,12 fermented (1) 100:22 FERROUS (4) 147:2,5;156:7,10 fertility (4) 165:25;178:22,23; 191:23 fertilizers (1)
196:5 experience (4) 51:18;62:21;66:6; 203:19 experienced (4) 7:20;55:22;198:8; 203:7 experiencing (2) 54:17;55:20 experimental (1) 91:9 expert (1)	eye (2) 185:21;196:12 F face (1) 29:3 faces (1) 151:16 facet (1) 90:22 facilitate (2)	174:12;208:20 fan (2) 121:17;124:22 fantastic (5) 56:18,21;58:17; 186:19;188:2 far (15) 29:7,11;58:17; 66:10;77:11;107:17; 108:3;116:12;127:8; 137:22;148:25;152:3; 160:2;170:10;176:24	102:4 fat (3) 157:3,22;169:4 fate (1) 153:9 fatty (1) 161:20 favor (10) 103:19;104:25; 105:4,7;127:21; 137:25;158:5;160:19; 169:22;198:20	102:8,16;104:12; 106:24;107:11;129:9; 130:12;133:25; 138:25;142:8,10,12 fermented (1) 100:22 FERROUS (4) 147:2,5;156:7,10 fertility (4) 165:25;178:22,23; 191:23 fertilizers (1) 173:23
196:5 experience (4) 51:18;62:21;66:6; 203:19 experienced (4) 7:20;55:22;198:8; 203:7 experiencing (2) 54:17;55:20 experimental (1) 91:9 expert (1) 28:23	eye (2) 185:21;196:12 F face (1) 29:3 faces (1) 151:16 facet (1) 90:22 facilitate (2) 14:11;163:14	174:12;208:20 fan (2) 121:17;124:22 fantastic (5) 56:18,21;58:17; 186:19;188:2 far (15) 29:7,11;58:17; 66:10;77:11;107:17; 108:3;116:12;127:8; 137:22;148:25;152:3; 160:2;170:10;176:24 farm (22)	102:4 fat (3) 157:3,22;169:4 fate (1) 153:9 fatty (1) 161:20 favor (10) 103:19;104:25; 105:4,7;127:21; 137:25;158:5;160:19; 169:22;198:20 favorite (1)	102:8,16;104:12; 106:24;107:11;129:9; 130:12;133:25; 138:25;142:8,10,12 fermented (1) 100:22 FERROUS (4) 147:2,5;156:7,10 fertility (4) 165:25;178:22,23; 191:23 fertilizers (1) 173:23 few (20)
196:5 experience (4) 51:18;62:21;66:6; 203:19 experienced (4) 7:20;55:22;198:8; 203:7 experiencing (2) 54:17;55:20 experimental (1) 91:9 expert (1) 28:23 expertise (2)	eye (2) 185:21;196:12 F face (1) 29:3 faces (1) 151:16 facet (1) 90:22 facilitate (2) 14:11;163:14 facilities (3)	174:12;208:20 fan (2) 121:17;124:22 fantastic (5) 56:18,21;58:17; 186:19;188:2 far (15) 29:7,11;58:17; 66:10;77:11;107:17; 108:3;116:12;127:8; 137:22;148:25;152:3; 160:2;170:10;176:24 farm (22) 7:19;11:22;13:23;	102:4 fat (3) 157:3,22;169:4 fate (1) 153:9 fatty (1) 161:20 favor (10) 103:19;104:25; 105:4,7;127:21; 137:25;158:5;160:19; 169:22;198:20 favorite (1) 73:8	102:8,16;104:12; 106:24;107:11;129:9; 130:12;133:25; 138:25;142:8,10,12 fermented (1) 100:22 FERROUS (4) 147:2,5;156:7,10 fertility (4) 165:25;178:22,23; 191:23 fertilizers (1) 173:23 few (20) 0:12;12:11;13:12,
196:5 experience (4) 51:18;62:21;66:6; 203:19 experienced (4) 7:20;55:22;198:8; 203:7 experiencing (2) 54:17;55:20 experimental (1) 91:9 expert (1) 28:23 expertise (2) 131:9;195:9	eye (2) 185:21;196:12 F face (1) 29:3 faces (1) 151:16 facet (1) 90:22 facilitate (2) 14:11;163:14 facilities (3) 144:5;146:9;170:15	174:12;208:20 fan (2) 121:17;124:22 fantastic (5) 56:18,21;58:17; 186:19;188:2 far (15) 29:7,11;58:17; 66:10;77:11;107:17; 108:3;116:12;127:8; 137:22;148:25;152:3; 160:2;170:10;176:24 farm (22) 7:19;11:22;13:23; 16:19,19;17:5;51:8,	102:4 fat (3) 157:3,22;169:4 fate (1) 153:9 fatty (1) 161:20 favor (10) 103:19;104:25; 105:4,7;127:21; 137:25;158:5;160:19; 169:22;198:20 favorite (1) 73:8 FDA (4)	102:8,16;104:12; 106:24;107:11;129:9; 130:12;133:25; 138:25;142:8,10,12 fermented (1) 100:22 FERROUS (4) 147:2,5;156:7,10 fertility (4) 165:25;178:22,23; 191:23 fertilizers (1) 173:23 few (20) 0:12;12:11;13:12, 24;35:7;49:6;54:15;
196:5 experience (4) 51:18;62:21;66:6; 203:19 experienced (4) 7:20;55:22;198:8; 203:7 experiencing (2) 54:17;55:20 experimental (1) 91:9 expert (1) 28:23 expertise (2) 131:9;195:9 experts (1)	eye (2) 185:21;196:12 F face (1) 29:3 faces (1) 151:16 facet (1) 90:22 facilitate (2) 14:11;163:14 facilities (3) 144:5;146:9;170:15 facility (1)	174:12;208:20 fan (2) 121:17;124:22 fantastic (5) 56:18,21;58:17; 186:19;188:2 far (15) 29:7,11;58:17; 66:10;77:11;107:17; 108:3;116:12;127:8; 137:22;148:25;152:3; 160:2;170:10;176:24 farm (22) 7:19;11:22;13:23; 16:19,19;17:5;51:8, 10;64:25;65:2,6;68:7;	102:4 fat (3) 157:3,22;169:4 fate (1) 153:9 fatty (1) 161:20 favor (10) 103:19;104:25; 105:4,7;127:21; 137:25;158:5;160:19; 169:22;198:20 favorite (1) 73:8 FDA (4) 33:13;110:14;	102:8,16;104:12; 106:24;107:11;129:9; 130:12;133:25; 138:25;142:8,10,12 fermented (1) 100:22 FERROUS (4) 147:2,5;156:7,10 fertility (4) 165:25;178:22,23; 191:23 fertilizers (1) 173:23 few (20) 0:12;12:11;13:12, 24;35:7;49:6;54:15; 61:9;69:24;91:3;
196:5 experience (4) 51:18;62:21;66:6; 203:19 experienced (4) 7:20;55:22;198:8; 203:7 experiencing (2) 54:17;55:20 experimental (1) 91:9 expert (1) 28:23 expertise (2) 131:9;195:9 experts (1) 59:21	eye (2) 185:21;196:12 F face (1) 29:3 faces (1) 151:16 facet (1) 90:22 facilitate (2) 14:11;163:14 facilities (3) 144:5;146:9;170:15 facility (1) 70:25	174:12;208:20 fan (2) 121:17;124:22 fantastic (5) 56:18,21;58:17; 186:19;188:2 far (15) 29:7,11;58:17; 66:10;77:11;107:17; 108:3;116:12;127:8; 137:22;148:25;152:3; 160:2;170:10;176:24 farm (22) 7:19;11:22;13:23; 16:19,19;17:5;51:8, 10;64:25;65:2,6;68:7; 72:11;190:8;191:10,	102:4 fat (3) 157:3,22;169:4 fate (1) 153:9 fatty (1) 161:20 favor (10) 103:19;104:25; 105:4,7;127:21; 137:25;158:5;160:19; 169:22;198:20 favorite (1) 73:8 FDA (4) 33:13;110:14; 138:16;155:1	102:8,16;104:12; 106:24;107:11;129:9; 130:12;133:25; 138:25;142:8,10,12 fermented (1) 100:22 FERROUS (4) 147:2,5;156:7,10 fertility (4) 165:25;178:22,23; 191:23 fertilizers (1) 173:23 few (20) 0:12;12:11;13:12, 24;35:7;49:6;54:15; 61:9;69:24;91:3; 103:4;108:8;134:25;
196:5 experience (4) 51:18;62:21;66:6; 203:19 experienced (4) 7:20;55:22;198:8; 203:7 experiencing (2) 54:17;55:20 experimental (1) 91:9 expert (1) 28:23 expertise (2) 131:9;195:9 experts (1) 59:21 explained (2)	eye (2) 185:21;196:12 F face (1) 29:3 faces (1) 151:16 facet (1) 90:22 facilitate (2) 14:11;163:14 facilities (3) 144:5;146:9;170:15 facility (1) 70:25 facing (1)	174:12;208:20 fan (2) 121:17;124:22 fantastic (5) 56:18,21;58:17; 186:19;188:2 far (15) 29:7,11;58:17; 66:10;77:11;107:17; 108:3;116:12;127:8; 137:22;148:25;152:3; 160:2;170:10;176:24 farm (22) 7:19;11:22;13:23; 16:19,19;17:5;51:8, 10;64:25;65:2,6;68:7; 72:11;190:8;191:10, 22;193:25;195:21,22;	102:4 fat (3) 157:3,22;169:4 fate (1) 153:9 fatty (1) 161:20 favor (10) 103:19;104:25; 105:4,7;127:21; 137:25;158:5;160:19; 169:22;198:20 favorite (1) 73:8 FDA (4) 33:13;110:14; 138:16;155:1 fear (1)	102:8,16;104:12; 106:24;107:11;129:9; 130:12;133:25; 138:25;142:8,10,12 fermented (1) 100:22 FERROUS (4) 147:2,5;156:7,10 fertility (4) 165:25;178:22,23; 191:23 fertilizers (1) 173:23 few (20) 0:12;12:11;13:12, 24;35:7;49:6;54:15; 61:9;69:24;91:3; 103:4;108:8;134:25; 136:8;140:25;150:16;
196:5 experience (4) 51:18;62:21;66:6; 203:19 experienced (4) 7:20;55:22;198:8; 203:7 experiencing (2) 54:17;55:20 experimental (1) 91:9 expert (1) 28:23 expertise (2) 131:9;195:9 experts (1) 59:21 explained (2) 108:13;139:20	eye (2) 185:21;196:12 F face (1) 29:3 faces (1) 151:16 facet (1) 90:22 facilitate (2) 14:11;163:14 facilities (3) 144:5;146:9;170:15 facility (1) 70:25 facing (1) 35:11	174:12;208:20 fan (2) 121:17;124:22 fantastic (5) 56:18,21;58:17; 186:19;188:2 far (15) 29:7,11;58:17; 66:10;77:11;107:17; 108:3;116:12;127:8; 137:22;148:25;152:3; 160:2;170:10;176:24 farm (22) 7:19;11:22;13:23; 16:19,19;17:5;51:8, 10;64:25;65:2,6;68:7; 72:11;190:8;191:10, 22;193:25;195:21,22; 196:1,2;208:13	102:4 fat (3) 157:3,22;169:4 fate (1) 153:9 fatty (1) 161:20 favor (10) 103:19;104:25; 105:4,7;127:21; 137:25;158:5;160:19; 169:22;198:20 favorite (1) 73:8 FDA (4) 33:13;110:14; 138:16;155:1 fear (1) 28:20	102:8,16;104:12; 106:24;107:11;129:9; 130:12;133:25; 138:25;142:8,10,12 fermented (1) 100:22 FERROUS (4) 147:2,5;156:7,10 fertility (4) 165:25;178:22,23; 191:23 fertilizers (1) 173:23 few (20) 0:12;12:11;13:12, 24;35:7;49:6;54:15; 61:9;69:24;91:3; 103:4;108:8;134:25; 136:8;140:25;150:16; 153:14;189:14;
196:5 experience (4) 51:18;62:21;66:6; 203:19 experienced (4) 7:20;55:22;198:8; 203:7 experiencing (2) 54:17;55:20 experimental (1) 91:9 expert (1) 28:23 expertise (2) 131:9;195:9 experts (1) 59:21 explained (2)	eye (2) 185:21;196:12 F face (1) 29:3 faces (1) 151:16 facet (1) 90:22 facilitate (2) 14:11;163:14 facilities (3) 144:5;146:9;170:15 facility (1) 70:25 facing (1) 35:11 fact (10)	174:12;208:20 fan (2) 121:17;124:22 fantastic (5) 56:18,21;58:17; 186:19;188:2 far (15) 29:7,11;58:17; 66:10;77:11;107:17; 108:3;116:12;127:8; 137:22;148:25;152:3; 160:2;170:10;176:24 farm (22) 7:19;11:22;13:23; 16:19,19;17:5;51:8, 10;64:25;65:2,6;68:7; 72:11;190:8;191:10, 22;193:25;195:21,22; 196:1,2;208:13 farmed (1)	102:4 fat (3) 157:3,22;169:4 fate (1) 153:9 fatty (1) 161:20 favor (10) 103:19;104:25; 105:4,7;127:21; 137:25;158:5;160:19; 169:22;198:20 favorite (1) 73:8 FDA (4) 33:13;110:14; 138:16;155:1 fear (1) 28:20 feather (1)	102:8,16;104:12; 106:24;107:11;129:9; 130:12;133:25; 138:25;142:8,10,12 fermented (1) 100:22 FERROUS (4) 147:2,5;156:7,10 fertility (4) 165:25;178:22,23; 191:23 fertilizers (1) 173:23 few (20) 0:12;12:11;13:12, 24;35:7;49:6;54:15; 61:9;69:24;91:3; 103:4;108:8;134:25; 136:8;140:25;150:16; 153:14;189:14; 202:22,24
196:5 experience (4) 51:18;62:21;66:6; 203:19 experienced (4) 7:20;55:22;198:8; 203:7 experiencing (2) 54:17;55:20 experimental (1) 91:9 expert (1) 28:23 expertise (2) 131:9;195:9 experts (1) 59:21 explained (2) 108:13;139:20 explanation (1)	eye (2) 185:21;196:12 F face (1) 29:3 faces (1) 151:16 facet (1) 90:22 facilitate (2) 14:11;163:14 facilities (3) 144:5;146:9;170:15 facility (1) 70:25 facing (1) 35:11	174:12;208:20 fan (2) 121:17;124:22 fantastic (5) 56:18,21;58:17; 186:19;188:2 far (15) 29:7,11;58:17; 66:10;77:11;107:17; 108:3;116:12;127:8; 137:22;148:25;152:3; 160:2;170:10;176:24 farm (22) 7:19;11:22;13:23; 16:19,19;17:5;51:8, 10;64:25;65:2,6;68:7; 72:11;190:8;191:10, 22;193:25;195:21,22; 196:1,2;208:13	102:4 fat (3) 157:3,22;169:4 fate (1) 153:9 fatty (1) 161:20 favor (10) 103:19;104:25; 105:4,7;127:21; 137:25;158:5;160:19; 169:22;198:20 favorite (1) 73:8 FDA (4) 33:13;110:14; 138:16;155:1 fear (1) 28:20	102:8,16;104:12; 106:24;107:11;129:9; 130:12;133:25; 138:25;142:8,10,12 fermented (1) 100:22 FERROUS (4) 147:2,5;156:7,10 fertility (4) 165:25;178:22,23; 191:23 fertilizers (1) 173:23 few (20) 0:12;12:11;13:12, 24;35:7;49:6;54:15; 61:9;69:24;91:3; 103:4;108:8;134:25; 136:8;140:25;150:16; 153:14;189:14;
196:5 experience (4) 51:18;62:21;66:6; 203:19 experienced (4) 7:20;55:22;198:8; 203:7 experiencing (2) 54:17;55:20 experimental (1) 91:9 expert (1) 28:23 expertise (2) 131:9;195:9 experts (1) 59:21 explained (2) 108:13;139:20 explanation (1) 104:15	eye (2) 185:21;196:12 F face (1) 29:3 faces (1) 151:16 facet (1) 90:22 facilitate (2) 14:11;163:14 facilities (3) 144:5;146:9;170:15 facility (1) 70:25 facing (1) 35:11 fact (10) 21:21;39:7;45:8;	174:12;208:20 fan (2) 121:17;124:22 fantastic (5) 56:18,21;58:17; 186:19;188:2 far (15) 29:7,11;58:17; 66:10;77:11;107:17; 108:3;116:12;127:8; 137:22;148:25;152:3; 160:2;170:10;176:24 farm (22) 7:19;11:22;13:23; 16:19,19;17:5;51:8, 10;64:25;65:2,6;68:7; 72:11;190:8;191:10, 22;193:25;195:21,22; 196:1,2;208:13 farmed (1) 162:1	102:4 fat (3) 157:3,22;169:4 fate (1) 153:9 fatty (1) 161:20 favor (10) 103:19;104:25; 105:4,7;127:21; 137:25;158:5;160:19; 169:22;198:20 favorite (1) 73:8 FDA (4) 33:13;110:14; 138:16;155:1 fear (1) 28:20 feather (1) 163:25	102:8,16;104:12; 106:24;107:11;129:9; 130:12;133:25; 138:25;142:8,10,12 fermented (1) 100:22 FERROUS (4) 147:2,5;156:7,10 fertility (4) 165:25;178:22,23; 191:23 fertilizers (1) 173:23 few (20) 0:12;12:11;13:12, 24;35:7;49:6;54:15; 61:9;69:24;91:3; 103:4;108:8;134:25; 136:8;140:25;150:16; 153:14;189:14; 202:22,24 field (9)
196:5 experience (4) 51:18;62:21;66:6; 203:19 experienced (4) 7:20;55:22;198:8; 203:7 experiencing (2) 54:17;55:20 experimental (1) 91:9 expert (1) 28:23 expertise (2) 131:9;195:9 experts (1) 59:21 explained (2) 108:13;139:20 explanation (1) 104:15 explanations (1) 98:19 explicitly (3)	eye (2) 185:21;196:12 F face (1) 29:3 faces (1) 151:16 facet (1) 90:22 facilitate (2) 14:11;163:14 facilities (3) 144:5;146:9;170:15 facility (1) 70:25 facing (1) 35:11 fact (10) 21:21;39:7;45:8; 61:24;112:1;115:12; 127:18;129:8;142:24; 166:3	174:12;208:20 fan (2) 121:17;124:22 fantastic (5) 56:18,21;58:17; 186:19;188:2 far (15) 29:7,11;58:17; 66:10;77:11;107:17; 108:3;116:12;127:8; 137:22;148:25;152:3; 160:2;170:10;176:24 farm (22) 7:19;11:22;13:23; 16:19,19;17:5;51:8, 10;64:25;65:2,6;68:7; 72:11;190:8;191:10, 22;193:25;195:21,22; 196:1,2;208:13 farmed (1) 162:1 farmer (17) 7:22,24,24,25;9:8; 16:25;22:22;27:21;	102:4 fat (3) 157:3,22;169:4 fate (1) 153:9 fatty (1) 161:20 favor (10) 103:19;104:25; 105:4,7;127:21; 137:25;158:5;160:19; 169:22;198:20 favorite (1) 73:8 FDA (4) 33:13;110:14; 138:16;155:1 fear (1) 28:20 feather (1) 163:25 fed (1) 163:21 federal (6)	102:8,16;104:12; 106:24;107:11;129:9; 130:12;133:25; 138:25;142:8,10,12 fermented (1) 100:22 FERROUS (4) 147:2,5;156:7,10 fertility (4) 165:25;178:22,23; 191:23 fertilizers (1) 173:23 few (20) 0:12;12:11;13:12, 24;35:7;49:6;54:15; 61:9;69:24;91:3; 103:4;108:8;134:25; 136:8;140:25;150:16; 153:14;189:14; 202:22,24 field (9) 26:22,24;47:13; 48:14;51:24,25;52:1; 53:12;196:13
196:5 experience (4) 51:18;62:21;66:6; 203:19 experienced (4) 7:20;55:22;198:8; 203:7 experiencing (2) 54:17;55:20 experimental (1) 91:9 expert (1) 28:23 expertise (2) 131:9;195:9 experts (1) 59:21 explained (2) 108:13;139:20 explanation (1) 104:15 explanations (1) 98:19 explicitly (3) 139:5;158:25;	eye (2) 185:21;196:12 F face (1) 29:3 faces (1) 151:16 facet (1) 90:22 facilitate (2) 14:11;163:14 facilities (3) 144:5;146:9;170:15 facility (1) 70:25 facing (1) 35:11 fact (10) 21:21;39:7;45:8; 61:24;112:1;115:12; 127:18;129:8;142:24; 166:3 factor (4)	174:12;208:20 fan (2) 121:17;124:22 fantastic (5) 56:18,21;58:17; 186:19;188:2 far (15) 29:7,11;58:17; 66:10;77:11;107:17; 108:3;116:12;127:8; 137:22;148:25;152:3; 160:2;170:10;176:24 farm (22) 7:19;11:22;13:23; 16:19,19;17:5;51:8, 10;64:25;65:2,6;68:7; 72:11;190:8;191:10, 22;193:25;195:21,22; 196:1,2;208:13 farmed (1) 162:1 farmer (17) 7:22,24,24,25;9:8; 16:25;22:22;27:21; 48:14;58:2,4;65:13,	102:4 fat (3) 157:3,22;169:4 fate (1) 153:9 fatty (1) 161:20 favor (10) 103:19;104:25; 105:4,7;127:21; 137:25;158:5;160:19; 169:22;198:20 favorite (1) 73:8 FDA (4) 33:13;110:14; 138:16;155:1 fear (1) 28:20 feather (1) 163:25 fed (1) 163:21 federal (6) 15:6;16:21;17:21;	102:8,16;104:12; 106:24;107:11;129:9; 130:12;133:25; 138:25;142:8,10,12 fermented (1) 100:22 FERROUS (4) 147:2,5;156:7,10 fertility (4) 165:25;178:22,23; 191:23 fertilizers (1) 173:23 few (20) 0:12;12:11;13:12, 24;35:7;49:6;54:15; 61:9;69:24;91:3; 103:4;108:8;134:25; 136:8;140:25;150:16; 153:14;189:14; 202:22,24 field (9) 26:22,24;47:13; 48:14;51:24,25;52:1; 53:12;196:13 fields (3)
196:5 experience (4) 51:18;62:21;66:6; 203:19 experienced (4) 7:20;55:22;198:8; 203:7 experiencing (2) 54:17;55:20 experimental (1) 91:9 expert (1) 28:23 expertise (2) 131:9;195:9 experts (1) 59:21 explained (2) 108:13;139:20 explanation (1) 104:15 explanations (1) 98:19 explicitly (3) 139:5;158:25; 162:20	eye (2) 185:21;196:12 F face (1) 29:3 faces (1) 151:16 facet (1) 90:22 facilitate (2) 14:11;163:14 facilities (3) 144:5;146:9;170:15 facility (1) 70:25 facing (1) 35:11 fact (10) 21:21;39:7;45:8; 61:24;112:1;115:12; 127:18;129:8;142:24; 166:3 factor (4) 50:22;55:6;67:12;	174:12;208:20 fan (2) 121:17;124:22 fantastic (5) 56:18,21;58:17; 186:19;188:2 far (15) 29:7,11;58:17; 66:10;77:11;107:17; 108:3;116:12;127:8; 137:22;148:25;152:3; 160:2;170:10;176:24 farm (22) 7:19;11:22;13:23; 16:19,19;17:5;51:8, 10;64:25;65:2,6;68:7; 72:11;190:8;191:10, 22;193:25;195:21,22; 196:1,2;208:13 farmed (1) 162:1 farmer (17) 7:22,24,24,25;9:8; 16:25;22:22;27:21; 48:14;58:2,4;65:13, 24;68:5;199:10,22;	102:4 fat (3) 157:3,22;169:4 fate (1) 153:9 fatty (1) 161:20 favor (10) 103:19;104:25; 105:4,7;127:21; 137:25;158:5;160:19; 169:22;198:20 favorite (1) 73:8 FDA (4) 33:13;110:14; 138:16;155:1 fear (1) 28:20 feather (1) 163:25 fed (1) 163:21 federal (6) 15:6;16:21;17:21; 20:9;205:24;206:2	102:8,16;104:12; 106:24;107:11;129:9; 130:12;133:25; 138:25;142:8,10,12 fermented (1) 100:22 FERROUS (4) 147:2,5;156:7,10 fertility (4) 165:25;178:22,23; 191:23 fertilizers (1) 173:23 few (20) 0:12;12:11;13:12, 24;35:7;49:6;54:15; 61:9;69:24;91:3; 103:4;108:8;134:25; 136:8;140:25;150:16; 153:14;189:14; 202:22,24 field (9) 26:22,24;47:13; 48:14;51:24,25;52:1; 53:12;196:13 fields (3) 52:5;57:11,20
196:5 experience (4) 51:18;62:21;66:6; 203:19 experienced (4) 7:20;55:22;198:8; 203:7 experiencing (2) 54:17;55:20 experimental (1) 91:9 expert (1) 28:23 expertise (2) 131:9;195:9 experts (1) 59:21 explained (2) 108:13;139:20 explanation (1) 104:15 explanations (1) 98:19 explicitly (3) 139:5;158:25; 162:20 explore (2)	eye (2) 185:21;196:12 F face (1) 29:3 faces (1) 151:16 facet (1) 90:22 facilitate (2) 14:11;163:14 facilities (3) 144:5;146:9;170:15 facility (1) 70:25 facing (1) 35:11 fact (10) 21:21;39:7;45:8; 61:24;112:1;115:12; 127:18;129:8;142:24; 166:3 factor (4) 50:22;55:6;67:12; 170:6	174:12;208:20 fan (2) 121:17;124:22 fantastic (5) 56:18,21;58:17; 186:19;188:2 far (15) 29:7,11;58:17; 66:10;77:11;107:17; 108:3;116:12;127:8; 137:22;148:25;152:3; 160:2;170:10;176:24 farm (22) 7:19;11:22;13:23; 16:19,19;17:5;51:8, 10;64:25;65:2,6;68:7; 72:11;190:8;191:10, 22;193:25;195:21,22; 196:1,2;208:13 farmed (1) 162:1 farmer (17) 7:22,24,24,25;9:8; 16:25;22:22;27:21; 48:14;58:2,4;65:13, 24;68:5;199:10,22; 202:20	102:4 fat (3) 157:3,22;169:4 fate (1) 153:9 fatty (1) 161:20 favor (10) 103:19;104:25; 105:4,7;127:21; 137:25;158:5;160:19; 169:22;198:20 favorite (1) 73:8 FDA (4) 33:13;110:14; 138:16;155:1 fear (1) 28:20 feather (1) 163:25 fed (1) 163:25 fed (1) 15:6;16:21;17:21; 20:9;205:24;206:2 feed (8)	102:8,16;104:12; 106:24;107:11;129:9; 130:12;133:25; 138:25;142:8,10,12 fermented (1) 100:22 FERROUS (4) 147:2,5;156:7,10 fertility (4) 165:25;178:22,23; 191:23 fertilizers (1) 173:23 few (20) 0:12;12:11;13:12, 24;35:7;49:6;54:15; 61:9;69:24;91:3; 103:4;108:8;134:25; 136:8;140:25;150:16; 153:14;189:14; 202:22,24 field (9) 26:22,24;47:13; 48:14;51:24,25;52:1; 53:12;196:13 fields (3) 52:5;57:11,20 fifth (2)
196:5 experience (4) 51:18;62:21;66:6; 203:19 experienced (4) 7:20;55:22;198:8; 203:7 experiencing (2) 54:17;55:20 experimental (1) 91:9 expert (1) 28:23 expertise (2) 131:9;195:9 experts (1) 59:21 explained (2) 108:13;139:20 explanation (1) 104:15 explanations (1) 98:19 explicitly (3) 139:5;158:25; 162:20 explore (2) 37:24;107:18	eye (2) 185:21;196:12 F face (1) 29:3 faces (1) 151:16 facet (1) 90:22 facilitate (2) 14:11;163:14 facilities (3) 144:5;146:9;170:15 facility (1) 70:25 facing (1) 35:11 fact (10) 21:21;39:7;45:8; 61:24;112:1;115:12; 127:18;129:8;142:24; 166:3 factor (4) 50:22;55:6;67:12; 170:6 factors (3)	174:12;208:20 fan (2) 121:17;124:22 fantastic (5) 56:18,21;58:17; 186:19;188:2 far (15) 29:7,11;58:17; 66:10;77:11;107:17; 108:3;116:12;127:8; 137:22;148:25;152:3; 160:2;170:10;176:24 farm (22) 7:19;11:22;13:23; 16:19,19;17:5;51:8, 10;64:25;65:2,6;68:7; 72:11;190:8;191:10, 22;193:25;195:21,22; 196:1,2;208:13 farmed (1) 162:1 farmer (17) 7:22,24,24,25;9:8; 16:25;22:22;27:21; 48:14;58:2,4;65:13, 24;68:5;199:10,22; 202:20 farmers (39)	102:4 fat (3) 157:3,22;169:4 fate (1) 153:9 fatty (1) 161:20 favor (10) 103:19;104:25; 105:4,7;127:21; 137:25;158:5;160:19; 169:22;198:20 favorite (1) 73:8 FDA (4) 33:13;110:14; 138:16;155:1 fear (1) 28:20 feather (1) 163:25 fed (1) 163:25 fed (1) 15:6;16:21;17:21; 20:9;205:24;206:2 feed (8) 51:5;141:20;	102:8,16;104:12; 106:24;107:11;129:9; 130:12;133:25; 138:25;142:8,10,12 fermented (1) 100:22 FERROUS (4) 147:2,5;156:7,10 fertility (4) 165:25;178:22,23; 191:23 fertilizers (1) 173:23 few (20) 0:12;12:11;13:12, 24;35:7;49:6;54:15; 61:9;69:24;91:3; 103:4;108:8;134:25; 136:8;140:25;150:16; 153:14;189:14; 202:22,24 field (9) 26:22,24;47:13; 48:14;51:24,25;52:1; 53:12;196:13 fields (3) 52:5;57:11,20 fifth (2) 25:13;28:4
196:5 experience (4) 51:18;62:21;66:6; 203:19 experienced (4) 7:20;55:22;198:8; 203:7 experiencing (2) 54:17;55:20 experimental (1) 91:9 expert (1) 28:23 expertise (2) 131:9;195:9 experts (1) 59:21 explained (2) 108:13;139:20 explanation (1) 104:15 explanations (1) 98:19 explicitly (3) 139:5;158:25; 162:20 explore (2) 37:24;107:18 exploring (2)	eye (2) 185:21;196:12 F face (1) 29:3 faces (1) 151:16 facet (1) 90:22 facilitate (2) 14:11;163:14 facilities (3) 144:5;146:9;170:15 facility (1) 70:25 facing (1) 35:11 fact (10) 21:21;39:7;45:8; 61:24;112:1;115:12; 127:18;129:8;142:24; 166:3 factor (4) 50:22;55:6;67:12; 170:6 factors (3) 54:8;55:13;71:21	174:12;208:20 fan (2) 121:17;124:22 fantastic (5) 56:18,21;58:17; 186:19;188:2 far (15) 29:7,11;58:17; 66:10;77:11;107:17; 108:3;116:12;127:8; 137:22;148:25;152:3; 160:2;170:10;176:24 farm (22) 7:19;11:22;13:23; 16:19,19;17:5;51:8, 10;64:25;65:2,6;68:7; 72:11;190:8;191:10, 22;193:25;195:21,22; 196:1,2;208:13 farmed (1) 162:1 farmer (17) 7:22,24,24,25;9:8; 16:25;22:22;77:21; 48:14;58:2,4;65:13, 24;68:5;199:10,22; 202:20 farmers (39) 9:11;11:9;12:4,7,9;	102:4 fat (3) 157:3,22;169:4 fate (1) 153:9 fatty (1) 161:20 favor (10) 103:19;104:25; 105:4,7;127:21; 137:25;158:5;160:19; 169:22;198:20 favorite (1) 73:8 FDA (4) 33:13;110:14; 138:16;155:1 fear (1) 28:20 feather (1) 163:25 fed (1) 163:25 fed (1) 15:6;16:21;17:21; 20:9;205:24;206:2 feed (8) 51:5;141:20; 161:25;162:2;163:24,	102:8,16;104:12; 106:24;107:11;129:9; 130:12;133:25; 138:25;142:8,10,12 fermented (1) 100:22 FERROUS (4) 147:2,5;156:7,10 fertility (4) 165:25;178:22,23; 191:23 fertilizers (1) 173:23 few (20) 0:12;12:11;13:12, 24;35:7;49:6;54:15; 61:9;69:24;91:3; 103:4;108:8;134:25; 136:8;140:25;150:16; 153:14;189:14; 202:22,24 field (9) 26:22,24;47:13; 48:14;51:24,25;52:1; 53:12;196:13 fields (3) 52:5;57:11,20 fifth (2) 25:13;28:4 figure (7)
196:5 experience (4) 51:18;62:21;66:6; 203:19 experienced (4) 7:20;55:22;198:8; 203:7 experiencing (2) 54:17;55:20 experimental (1) 91:9 expert (1) 28:23 expertise (2) 131:9;195:9 experts (1) 59:21 explained (2) 108:13;139:20 explanation (1) 104:15 explanations (1) 98:19 explicitly (3) 139:5;158:25; 162:20 explore (2) 37:24;107:18	eye (2) 185:21;196:12 F face (1) 29:3 faces (1) 151:16 facet (1) 90:22 facilitate (2) 14:11;163:14 facilities (3) 144:5;146:9;170:15 facility (1) 70:25 facing (1) 35:11 fact (10) 21:21;39:7;45:8; 61:24;112:1;115:12; 127:18;129:8;142:24; 166:3 factor (4) 50:22;55:6;67:12; 170:6 factors (3)	174:12;208:20 fan (2) 121:17;124:22 fantastic (5) 56:18,21;58:17; 186:19;188:2 far (15) 29:7,11;58:17; 66:10;77:11;107:17; 108:3;116:12;127:8; 137:22;148:25;152:3; 160:2;170:10;176:24 farm (22) 7:19;11:22;13:23; 16:19,19;17:5;51:8, 10;64:25;65:2,6;68:7; 72:11;190:8;191:10, 22;193:25;195:21,22; 196:1,2;208:13 farmed (1) 162:1 farmer (17) 7:22,24,24,25;9:8; 16:25;22:22;27:21; 48:14;58:2,4;65:13, 24;68:5;199:10,22; 202:20 farmers (39)	102:4 fat (3) 157:3,22;169:4 fate (1) 153:9 fatty (1) 161:20 favor (10) 103:19;104:25; 105:4,7;127:21; 137:25;158:5;160:19; 169:22;198:20 favorite (1) 73:8 FDA (4) 33:13;110:14; 138:16;155:1 fear (1) 28:20 feather (1) 163:25 fed (1) 163:25 fed (1) 15:6;16:21;17:21; 20:9;205:24;206:2 feed (8) 51:5;141:20;	102:8,16;104:12; 106:24;107:11;129:9; 130:12;133:25; 138:25;142:8,10,12 fermented (1) 100:22 FERROUS (4) 147:2,5;156:7,10 fertility (4) 165:25;178:22,23; 191:23 fertilizers (1) 173:23 few (20) 0:12;12:11;13:12, 24;35:7;49:6;54:15; 61:9;69:24;91:3; 103:4;108:8;134:25; 136:8;140:25;150:16; 153:14;189:14; 202:22,24 field (9) 26:22,24;47:13; 48:14;51:24,25;52:1; 53:12;196:13 fields (3) 52:5;57:11,20 fifth (2) 25:13;28:4

- Vol. 5 May 15, 2024

Spring 2024 Meeting		May 15, 2024		
132:13;150:6;193:5	first (27)	176:25;177:13,13;	15:24;89:23;99:6;	found (6)
figuring (4)	7:23;23:4;27:7,8;	180:13	102:3;137:24;138:23;	61:23;144:2;
47:13;62:3;67:22;	30:6;42:23;44:20;	flour (3)	147:12;148:3,8;	155:12;160:24;168:5;
119:2	50:21;58:12;78:24;	156:17;193:10,11	156:11;158:3;159:16;	204:2
file (1)	86:6;95:16,21;96:12;	fly (2)	161:21;169:7	foundation (3)
141:3	105:25;107:5;108:17;	58:12;154:2	force (1)	17:21;27:8;49:24
fill (3)	117:10;120:16;	flying (1)	171:23	foundational (1)
0:25;33:17;42:14	126:14;169:25;	133:8	foremost (2)	27:9
filled (1)	173:10,11;194:2;	focus (8)	42:23;117:10	foundationally (1)
11:1	198:4;205:23;207:16	23:3;27:6,7,8;	foreshadowing (1)	89:22
fillers (1)	fiscal (1)	34:19;68:2;189:10,10	30:16	69.22 four (10)
101:8	13:22	focused (6)	foresight (1)	8:10;10:11;21:6,10,
filling (1)	fish (46)	17:6;49:11;53:5;	39:15	15;25:14;54:19;
190:11	137:5;145:17,20;	69:1;100:10;126:9	forget (2)	78:24;84:15;97:4
film (1)	148:2;161:13,14,15,	focuses (2)	24:21;96:14	Fourteen (9)
143:14		97:7;104:6	forgive (2)	25:2;80:8;81:18;
films (2)	19;162:1,2,4,4,5,8,8,	FOIA (1)	29:6,9	83:2;84:12;87:12;
138:18,22	10,12,12,14,14,18,19, 19,25;163:2,5,14,15,	34:9		
		folder (1)	forgot (1) 176:22	88:20;181:25;183:18 fourth (1)
filter (2) 64:5;135:21	16,21,21,24,25;164:8,	162:6	forgotten (2)	131:11
	9,21,22;165:2,3,4,5,6;			
filtering (3)	167:1,20,24;176:11	folks (38)	131:14;204:7	FR (1) 96:13
136:1;140:15;	fishermen (1) 177:10	14:21;28:20;32:19;	fork (1)	
144:18		35:1;38:1;40:6,15;	193:16	frame (2)
filtration (3)	fishing (4)	44:15;57:9;58:7;	form (11)	113:11;204:13
140:18,21,22	163:6,7;164:20,22	59:20;64:10,13,17;	8:7;13:6;57:3;	framework (3)
final (10)	fishy (1)	67:23;69:25;73:5,6,	76:14;85:6;101:9;	37:14;72:11;116:11
48:16,21;67:16;	145:23	10;89:14;90:8;	103:21;140:21,22;	frameworks (1)
68:20;72:21;98:5;	fit (1)	110:18;112:4;124:10;	167:21;194:13	110:17
107:12;142:9;153:6;	204:16	129:21;130:1;131:6;	formally (1)	Francie (1)
165:24	five (5)	141:16;151:9;166:2;	186:8 format (2)	50:5 Example: (11)
finalized (2)	20:14;21:17;28:6;	172:8;189:6;198:22;		Franklin (11)
56:4;151:4	54:20;152:7	200:24;201:8,17; 208:1,3	45:12;206:14	23:20;79:4;81:15;
finally (2)	fix (1)		formed (1)	82:22;84:5;87:3;88:9;
13:12;96:25	150:14 fixed (1)	follow (5)	95:18 former (2)	110:9;178:3;181:5; 183:3
finance (1) 22:4	150:13	22:13;69:23; 129:11;148:4;170:20	former (2)	fraud (2)
		followed (2)	133:6;177:23	
financial (3)	fixing (1)	13:9;96:1	forms (5)	34:20;47:25 fraudulent (3)
21:16,22;43:6	195:24		91:8;134:10;	37:10;41:16,25
find (16) 43:14;47:25;48:3;	flag (7) (0.8.74.11.110.22)	following (5)	168:15;170:7,16	
	60:8;74:11;110:23;	7:13;75:1;96:6; 110:8;170:24	formula (5)	free (1) 177:3
51:9;63:19;64:18;	111:15;112:2,25; 194:20	follows (1)	130:19,20;137:8;	
65:2,5;85:6;89:11;			148:16;150:3	frequency (1)
104:20;109:19;	flagged (1)	104:1	formulated (2)	49:16
144:25,25;189:1;	36:4	follow-up (1) 99:20	103:4,6	fresh (4)
204:25	flags (2)	food (49)	formulations (1)	30:1;148:1;170:10, 15
finder (3) 51:7,13;64:24	101:4;103:2 flamer (1)	8:15;9:24;10:7;	170:8 forth (3)	freshness (1)
	1 5	15:6;68:18,24;76:17,	60:4;84:14;198:7	
finding (4)	192:8		· · · ·	170:11
61:22;121:1;	flashback (1) 28:1	25;89:20;92:21;93:4;	fortification (7)	friend (1)
167:13;205:18		98:23;100:17,23;	147:14,18;148:9,	132:6
fine (3)	flavor (3)	101:12;102:8,16;	12,15;151:5;156:11	friendly (6)
150:10;155:10; 188:14	126:6;128:22; 160:22	104:11,13;117:20;	fortified (2) 137:24;149:12	58:2;179:23;180:4, 14;181:11;182:15
		118:11;129:7,19;		
finish (6)	flavoring (3)	134:10,16;135:21;	fortify (2)	front (8)
0:11;60:24;185:15;	89:21;93:22;128:22	136:5;137:4,5;	137:4;148:1 forum (3)	10:20;11:21;47:9;
187:21,21;189:22	flavorings (1)	141:20;145:17;	forum (3)	49:23;108:15;123:25;
finished (3)	143:22	147:13,13,16,17,22,	19:1;37:25;185:17	192:9;208:21
30:22;134:22;	flavors (3)	23;148:1;149:11;	forward (16)	frozen (2)
188:10 finishing (1)	102:16;103:21;	173:22;174:9;178:11,	7:7;12:18;27:5;	89:24;169:7
finishing (1) 207:24	142:5	15;187:17;188:6;	112:5,6;135:25;	fruit (2)
firming (1)	flip (1) 75:3	193:4,14;195:6; 197:22	151:2,15,21,22; 163:11,12;165:18,20;	74:14;141:24 fruits (1)
126:6		Foods (14)	165:11,12,165:18,20; 166:20,24	117:1
120.0	floor (4)	1.0003 (14)	100.20,24	11/.1

Spring 2024 Meeting				Wiay 13, 2024
full (10)	gathered (3)	32:4;33:11;36:22;	33:9	109:14
60:22;80:12;81:22;	10:6,10,23	38:8;45:10,25;46:17;	grain (9)	groupings (1)
83:6;86:7;87:15;	gathering (2)	47:2	66:9,17;67:21;	109:21
103:18;104:13;109:6;	10:22;20:20	glyphosate's (1)	69:15,19;140:24;	groups (6)
182:13	gave (3)	45:9	192:22;202:19,20	11:18;17:6;27:21,
fully (1)	103:16;139:21;	GMO (5)	grains (1)	22;65:12;69:10
198:24	200:3	91:8,13;106:10;	159:17	grow (8)
fumaric (1)	gavel (1)	107:11;143:1	grant (1)	15:9;19:10;78:19;
129:10	209:4	goal (7)	114:23	85:11;119:18;169:14;
fun (3)	Gel (13)	67:24;68:25;70:9;	grants (2)	188:24;190:17
92:10;133:18;	143:6,7,10,11,12,	110:7;172:18;188:25;	9:11:17:9	grower (2)
198:11	14,17;144:12,22;	191:23	granular (1)	11:18;68:2
function (2)	145:7,12,15;167:10	goalpost (1)	29:18	growers (16)
10:25;157:8	gelatin (15)	188:11	grassroots (1)	11:17,20;50:21;
functional (1)	138:19;167:6,7,8,	God (1)	11:12	56:8,11;66:13,24;
142:4	10,11,17,21,23,25;	99:18	grateful (1)	67:9;68:12,15;69:20;
functions (2)	168:2,9,10,12,16	goes (11)	118:24	73:4;110:21;187:17,
93:23;141:19	general (11)	16:9;99:12,16;	gratitude (1)	25;188:2
fund (1)	16:17;17:23;44:10;	126:18;142:9;147:19;	95:4	growing (5)
114:22	51:14;64:13;69:6;	160:2;167:19;172:4;	gray (5)	52:4;124:21;
funded (1)	93:25;102:2;106:23;	197:1;206:23	61:7;148:17;	135:17;175:4;191:23
18:22	133:9;198:23	GoFundMe (1)	150:10,13;155:8	grown (10)
funding (5)	generally (11)	68:8	Great (57)	51:3;69:15;85:7,8;
9:11;11:7;12:19;	11:23;76:20;89:25;	Good (71)	0:18;15:3,13,14;	102:18,25;174:6,25;
13:17;15:14	93:22;100:22;101:12;	0:18;14:23;17:23;	16:4,16;17:12;18:15,	178:9,15
fundraise (1)	107:23;127:3,4;	19:5;20:12,13,15;	16,22;20:16;26:4;	grows (1)
199:17	137:5;150:8	22:2;26:13;30:10,21;	28:24;29:20;36:2,15;	14:6
fungal (1)	generate (2)	32:8;38:7;39:17;	42:9;45:17;53:7;60:1,	growth (2)
96:16	91:9;188:23	49:24;50:13,20;	13;65:8;66:1;67:18;	101:7;102:21
fungi (2)	generations (1)	51:12,25;52:13,16;	73:15;80:10;84:23;	guarantee (2)
100:18;104:3	21:12	53:1;57:2;58:25;59:7;	92:1,16;93:9,13,19;	176:3;177:22
fungus (2)	generosity (1)	61:16;64:15,22;	106:2;110:10;114:16;	guardrails (1)
139:1,3	19:14	66:16;71:22;85:22;	115:24;117:15;119:7;	189:1
further (13)	genetically (1)	86:3;94:19;104:12;	124:1;125:6;133:2;	guess (15)
8:18;35:14,24;	107:13	105:5,11;106:20;	136:21;138:3;140:1;	66:8;94:15;113:16;
56:14;70:23;108:13;	genus (1) 173:14	108:8;110:16;116:16,	141:12;146:25;	116:19,20;153:7;
162:16;173:17; 174:24;188:18,19;		19;117:7;119:12;	168:21;179:4;181:16; 182:2;183:21;186:13,	185:18;190:3;191:18, 21;192:5,16;198:13;
189:16;192:2	geography (1) 41:6	120:6,12,18;121:23; 124:14;130:6;136:18,	23;189:13;198:18;	199:8,23
Furthermore (1)	gets (8)	20;138:12;140:4;	200:23;209:18	guidance (11)
97:20	38:23;39:22;43:6;	143:3;151:13;153:11;	greater (3)	29:23,24;30:13;
futility (1)	60:9;146:15;152:1;	156:10;157:17;	64:19;65:23,24	32:20;33:16,23;
28:22	177:3;193:7	164:23;171:12,16;	greatest (1)	35:15;42:14;47:19;
future (6)	given (6)	172:7;178:13;189:10,	12:19	48:11;129:11
12:10;17:24;74:22;	58:17;63:6;97:8;	16;190:6;192:14;	green (2)	guidelines (2)
91:14;166:16;172:6	104:15;108:12;177:9	198:21;203:19;207:1;	63:12,14	48:7;147:11
fuzzy (1)	gives (4)	209:14	grew (1)	gummy (3)
152:17	44:16;98:25;	goods (7)	17:15	123:8;167:15,16
	161:17;196:24	40:19;68:7;93:24;	grocery (1)	guys (9)
G	giving (3)	158:16;169:5;188:10;	122:6	36:4;75:17;126:2;
	124:3;133:10;202:4	193:4	gross (1)	133:1;173:6;184:13;
gap (3)	glad (6)	Google (1)	145:2	198:4;207:3;209:14
33:15,17;42:15	66:1;106:16;	124:24	ground (1)	Gwendolyn (1)
gaping (1)	115:15;180:10;	go-round (1)	169:11	139:19
131:12	199:22;207:11	27:6	grounded (1)	<u> </u>
gaps (2)	glaring (1)	government (3)	95:10	H
168:10;190:12	32:4	20:10,11;205:9	groundwork (1)	
gases (1)	glibly (1)	GPS (2)	22:12	habits (1)
143:19	118:18	29:5,8	group (9)	121:9
gate (1)	GLOBAL (4)	grade (4)	8:3;34:19;36:20;	hail (1)
7:19	25:6,10;30:5;	51:5;76:17;100:17;	67:11;69:22;134:19;	55:21
gather (1)	183:23	104:11	149:16;203:25;205:6	hailstorm (1)
66:12	glyphosate (8)	gradient (1)	grouping (1)	68:4
		1	1	l

half(7)9:6,25;20:24,25; 40:13:97:4:137:12 hand (7) 22:15;44:1;128:17; 190:21;192:10;197:5; 199:2 handbook (2) 29:24;52:17 handful (3) 7:24;136:8;145:13 HANDING (1) 110:4 handle (2) 110:21:161:10 handlers (3) 26:3,23;27:20 handling (54) 0:9,9;73:20,22,24; 74:2,6;86:7;89:12; 93:14;95:5;98:15; 100:8.19:106:6: 109:15;110:2;114:5; 125:14;128:18;132:7, 14;133:13,17,23; 134:3;135:7,20; 136:15;137:11;138:9; 140:11,16;141:15; 143:7;147:1;148:19; 149:24;152:19; 155:25:157:14; 158:11:159:9.15: 161:14,19:166:17; 167:7:169:1:172:7. 25;179:5;184:8,12 hands (2) 48:23:67:14 Hang (2) 168:23;177:12 hanging (1) 177:9 happen (6) 23:9;51:19;118:24; 155:19;189:17; 209:19 happened (3) 54:19;165:14;208:5 happening (6) 12:22;36:12;41:21; 42:24;72:15;115:15 happens (1) 54:20 happily (1) 133:6 happy (9) 36:16;48:16;109:5; 120:25;131:6;140:3; 166:10,11;197:21 hard (5) 22:10:28:22:78:20; 119:17;154:24 hardening (1) 162:15

harder (2) 13:7:62:2 hardest (1) 201:20 hardwoods (1) 140:24 harmful (1) 104:21 harmony (2) 103:2;104:14 harvest (6) 175:14,19:176:13; 177:15,18;201:2 harvested (2) 121:13;146:15 harvesting (4) 146:9;174:21; 175:16;176:3 have-you (1) 18:19 head (3) 46:5;48:24;60:3 headcount (1) 146:12 headed (1) 168:19 heads (1) 196:17 health (31) 63:20:77:11.17; 93:5:101:10,13,14; 102:17:103:7.9.15: 104:19;117:19;121:5; 127:11;129:1;137:21, 22;139:9;158:2,3; 159:1,2;160:7,7; 161:22;162:23;175:8; 191:20;203:4,9 healthy (1) 161:22 hear (29) 9:14:14:7:15:7; 24:13;26:1;27:18; 36:16;48:18;50:10; 67:10;69:10;78:16; 79:22;113:8;114:19; 118:24;136:16,19; 150:23;152:11; 157:15,16;165:19; 178:8;188:20;195:18; 200:23;202:2,16 heard (56) 8:5;11:6,11;12:4,5; 13:4,6;15:4;19:25; 20:2;21:3;23:4;25:18; 26:15,20,21,22,23; 30:15;34:8;36:18; 37:11;40:6;44:14; 50:20,24,25;53:16,17; 56:21:57:2,13:58:12; 69:5,23;90:9,10; 105:14:110:1,9,18; 113:14;128:23;

129:21,23:139:18; 141:23:150:21: 184:16;189:20; 195:20;196:15;198:6; 200:4;202:18,20 hearing (5) 28:8;69:5;124:2; 187:25:203:23 heart (2) 14:17:70:21 heartened (1) 68:1 heartening (1) 114:19 heat (1) 169:11 heated (1) 158:23 heaviness (1) 44:7 heavy (1) 200:14 heck (1) 109:1 hectares (1) 174:4 hell (1) 209:4 help (28) 8:8:10:25:11:13; 12:9;17:9;19:9;30:3; 60:24:62:9:64:17: 65:19;71:4;113:11; 119:2,2,12;132:10; 134:18;188:23;189:2; 190:16,17;191:4,10, 11,14,17;192:13 helped (1) 118:12 helpful (12) 18:1;26:5;38:5; 43:1:45:23:52:22: 56:3;91:16;113:16; 151:24;164:17; 191:20 helping (3) 32:16;43:18;114:23 helps (4) 22:4;116:23; 161:21;191:17 herbicide (1) 31:18 hereafter (1) 96:12 hesitate (1) 66:5 hey (3) 112:2,7;135:11 hides (1) 167:24 high (10) 27:13;40:20,20; 52:4;54:15;78:18;

85:6;121:13;123:20; 190:6 higher (1) 57:14 highest (1) 57:20 highlight (9) 27:18:48:4:51:19; 52:19;58:24;173:10, 17:186:7:188:4 highlighted (2) 52:11:60:13 highlighting (1) 58:6 high-loss (1) 54:16 highly (3) 59:8;99:17;121:5 hinders (1) 22:4 history (14) 53:7,22;54:23; 75:25;136:22;147:9; 148:19;149:21;152:4, 12,18;154:23,23; 166:12 hit (1) 35:7 hits (1) 33:1 hogs (1) 145:10 hold (3) 35:19:136:17: 187:20 hole (1) 152:8 holes (1) 131:12 holistically (1) 176:12 home (6) 37:20;56:19;107:5; 133:11;144:10; 205:21 honest (1) 204:22 honestly (2) 110:12;154:21 honey (1) 85:4 honor (1) 92:9 honored (1) 0:24 hooks (1) 177:14 hope (11) 10:20;11:1,13; 20:19;22:22,23; 68:12;114:21;187:20. 22:188:17 hopefully (4)

- Vol. 5 May 15, 2024

38:4:70:4:71:13: 191:21 hoping (2) 106:5;198:24 hot (2) 120:25;153:24 hours (1) 52:1 House (4) 13:24:27:7,8:28:6 huge (8) 17:11;59:1;95:1; 149:6;150:15;207:16, 20;208:4 hugely (1) 26:5 hulls (1) 140:24 human (22) 77:11,17;93:4; 101:10:102:10:103:7. 9,14;104:19;129:1; 137:21,21;139:8; 141:19;142:25;158:1; 159:1;160:7;161:22; 162:23;174:19;175:8 human-centered (1) 72:24 humidity (1) 134:9 hundreds (1) 174:4 hurrah (1) 14:4hurts (1) 37:2 husband (1) 209:8 HUSEMAN (22) 24:19,23;80:2; 81:10;82:17;83:25; 86:23:88:4:135:8: 140:12;143:8;146:8, 11;163:20;167:8; 171:7;180:2,25; 182:23;188:14; 200:17;205:16 hydration (1) 134:7 hydrochloric (1) 127:7 hydrogen (8) 109:25;110:4,10, 11,25;111:13,14; 112:13 hydrogenated (1) 157:2 hydrolyze (1) 168:5 hvdrolvzed (1) 144:6 hydroxide (11) 75:9,11,22;77:4;

Spring 2024 Meeting				May 15, 20
78:7;81:21,23;83:5,7;	implementation (1)	148:7;167:19;201:6	158:16;163:7;	85:14
126:15;157:23	7:15	included (11)	173:24;201:19	innovation (1)
120.13,137.23	implemented (1)	12:18;15:8;32:2;	industry (11)	192:2
Ι	26:12	76:21;90:25;96:10;	67:13;77:14;92:22;	Innovations (1)
	implementing (1)	97:19,22,23,25;160:9	102:4;119:13;141:4;	189:15
Icelandic (1)	7:17	includes (6)	155:15;169:8;176:7;	innovative (1)
174:19	implications (1)	30:8;72:11;97:1;	191:17;201:7	192:7
idea (10)	136:6	98:11;100:19;174:20	inert (1)	inoculate (1)
11:17;19:7;39:11;	import (3)	including (9)	184:22	102:21
55:6;146:4;186:24;	26:5;39:4,6	34:24;46:17;72:12;	infant (4)	inoculated (1)
198:23;201:10;	importance (1)	100:6;107:10;139:12;	137:8;148:16;	100:22
203:19;204:2	7:12	147:20;149:18;179:2	150:3;156:19	in-person (10)
ideas (6)	important (38)	incomplete (1)	inferiority (1)	70:21;198:3,12,19,
41:1;49:25;60:4;	9:5;14:1;22:5;	32:1	147:22	25;199:10,14;201:11
68:14;186:17;196:17	25:12;27:4;28:9;30:1;	inconsistencies (2)	influenced (1)	24;206:11
identification (1)	34:13;35:2;48:17;	18:5;132:17	200:4	input (4)
97:22	50:13;51:18;59:14;	inconsistent (1)	inform (1)	11:4;34:5,13;
identified (4)	62:22;65:12;66:14;	11:7	92:7	101:13
9:20;93:5;126:12;	67:12;70:18;71:17;	increase (3)	information (47)	inputs (3)
150:2	92:9,25;98:17;	137:7;161:20;190:8	19:8;20:21;25:22;	34:20;191:22,24
identify (7)	110:23,24;112:25;	increased (3)	27:23;28:2;30:8,19,	ins (1)
37:20;64:22;69:19;	117:1;127:1;133:3;	27:3;143:23;175:2	22,23;33:15;34:11;	51:16
93:6;130:13;175:16;	135:16;141:18;142:1;	increases (3)	43:17;45:21;46:11;	Insider (1)
193:17	174:10;192:3,15;	46:3;92:23,23	47:18;65:14;71:23;	208:9
ie (1) 103:23	195:10;197:14;	increasing (2) 49:15,16	77:22;90:1;91:2,18;	insight (2)
IFORM (4)	198:14;202:20 importantly (1)	incredible (6)	95:2;96:4;99:10; 103:14;107:15;	154:16;189:16 inspected (1)
76:22;139:6;	109:17	7:4;19:10,15;22:20;	113:11,17,23;125:24;	144:4
162:20;175:7	imported (1)	23:6;209:17	134:14,17;135:3;	inspection (1)
IFORM's (1)	77:7	incredibly (1)	146:5;156:5;158:4;	32:15
156:23	importer (1)	39:16	159:3;161:18;166:16;	inspectors (5)
ifs (1)	27:20	independent (3)	172:2,3,3;173:18;	27:20,22;35:13;
155:23	importers (2)	95:18;148:10;	176:8;189:21;192:5;	45:18,21
ignoring (1)	26:3,23	156:12	202:4	inspiration (1)
35:3	importing (2)	in-depth (1)	infrastructure (3)	38:18
illustrate (1)	40:16;78:4	38:11	17:10;67:23;70:22	inspires (1)
99:3	imports (3)	Indianapolis (1)	ingredient (10)	201:18
imagine (5)	39:20;41:19;42:2	133:8	89:21;92:21;	instead (7)
20:14;28:22;117:4;	impressed (1)	indicate (2)	135:13;138:21;142:1,	48:2;53:20;54:1;
149:7;155:8	9:15	90:13;100:4	6;157:3;159:15;	97:14;122:20;193:11
impact (12)	impressive (3)	indicated (3)	161:20;167:15	206:22
25:25;49:14;	7:22;8:2;85:16	91:7;163:10;175:11	ingredients (4)	institutional (1)
103:12;131:2;160:2;	improve (4)	indication (2)	94:7;99:5;103:6;	63:6
169:13;175:8;176:9;	52:13;61:10;70:8;	33:12;176:21	193:12	institutionalized (1)
177:3;178:5;186:11; 201:3	134:18	indiscriminate (1) 147:25	inherently (2)	200:13 institutionalizing (1)
impacted (1)	improved (1) 50:15	indistinguishable (1)	190:15;200:19 inhibitor (1)	204:13
199:9	improvement (6)	167:22	184:11	institutions (1)
impactful (3)	26:11;50:6;52:12;	individual (7)	initial (4)	21:16
11:9;25:23;28:7	53:4;61:18;62:6	95:14;96:9;130:5;	10:1;13:9;25:21;	instruction (1)
impacts (12)	improvements (3)	157:9;179:21;180:10;	26:1	27:16
18:11;77:12,15;	50:1,3;52:18	195:13	initially (3)	insufficiency (1)
78:4;103:10,14;	improving (3)	individually (3)	63:9;101:25;136:23	147:21
117:20;121:5;127:11;	8:23;9:1;23:15	95:15;156:22;157:4	initiate (1)	insufficient (1)
134:13;160:7;162:24	impugn (1)	individuals (1)	161:8	170:6
imparts (1)	179:20	179:17	initiates (2)	insurance (23)
160:22	in- (2)	Indonesia (1)	39:20,21	9:12;49:1,4,18,20;
imperfect (1)	198:14;202:10	137:16	initiative (7)	51:15,17;53:13;
150:9	inception (1)	INDUCED (3)	9:7,7;10:1,3;13:17;	56:21;57:10;61:20;
impetus (1)	99:13	48:25;49:3;184:20	27:23;35:16	62:24;63:20,21,23;
77:24	include (9)	industrial (2)	initiatives (2)	64:2;65:4,13;66:5;
implement (1)	30:9;71:17;91:12;	102:21;161:18	8:17;35:18	68:3,14;183:24;
48:8	97:1;101:7;145:2;	industries (4)	inner (1)	202:19
	Ì.	Ì.	Ì.	Ì.

1,

1;

intake (1) 137:7 intangibles (1) 22:9 integrated (2) 22:24;35:15 integrity (2) 69:16:208:13 intelligence (1) 92:10 intended (4) 99:4,5;135:18; 147:15 intensity (1) 55:20 interact (1) 34:9 interacts (1) 157:20 interagency-type (1) 60:20 interchangeable (1) 75:16 interconnected (1) 7:19 interconnectedness (1) 70:18 intercrop (1) 58:13 intercropping (1) 59:9 interest (4) 14:5;30:19:115:2; 166:25 interested (8) 9:21;12:7;34:19; 51:11:64:21:119:1.3; 145:21 interesting (10) 36:12;46:20;125:6; 128:15;146:1,25; 164:2;169:3;185:22; 203:12 interim (3) 150:5;151:11;153:1 international (12) 76:20;103:1; 104:13,14;110:16; 128:25;134:12;139:5; 162:17;171:8;175:6; 176:9 **Internationally (5)** 76:19;89:25; 137:19;157:25; 158:24 Internet (1) 206:16 interpretation (2) 154:24;155:4 interpreted (1) 154:25 into (61) 7:9;8:18;9:6;15:13;

17:8;19:12;22:21; 25:16:26:6.17:27:4: 28:15:32:9:33:7: 35:14:36:20:38:18. 20;39:21;40:16,19; 41:19;43:10;47:10; 55:13;58:12;61:2; 65:14:68:13:69:8; 71:21;72:2;74:7;77:7, 25:89:2:90:20:91:17: 96:21;97:4;99:16; 101:21;112:3;129:15; 130:20;146:12,20; 147:19;148:11; 150:10;152:5;154:16; 160:5;169:11;170:14; 186:3;188:17;195:5; 197:21;201:7;202:5 intricacies (1) 51:17 intriguing (1) 18:19 introduced (2) 172:14;174:13 invested (1) 112:24 investigate (2) 128:3;160:23 investigation (2) 34:6:46:12 investigations (2) 41:9:47:24 investing (1) 10:15 investment (4) 18:2;21:9;22:21; 192:5 investments (1) 10:4 investor (1) 27:21 involve (1) 159:22 involved (8) 9:15;19:11;20:4,21; 99:2;102:1;155:15; 208:6 involving (1) 140:18 iodide (6) 136:14,15,22; 137:7,11,17 iodine (3) 137:6,9,23 Iowa (1) 18:7 iron (5) 156:10,20,25; 157:4,5 ironic (1) 38:2 irrigation (1) 59:6

Island (2) 163:10:199:12 isolate (1) 146:21 isolated (3) 134:5,9:144:3 issue (15) 17:4:37:5.23:46:12; 58:7;106:24;111:17; 115:4.5;117:18,24; 118:1;129:16;131:16; 137:22 issues (17) 14:1;37:25;66:10; 93:5;101:10;103:15; 104:19;106:15; 110:16;121:10,12; 139:9;149:19;162:24; 163:2;175:9;176:21 item (9) 8:20:44:10:60:17; 93:12;112:5;167:3; 186:5;188:6;193:4 items (13) 0:13;7:13,18,21; 8:10;52:10;55:23; 56:9;90:9;93:12; 100:16;183:23; 196:23 J jacking (1) 195:25 January (3) 100:8;125:18; 149:25 Japan (7) 137:16:139:6; 162:20:174:8.17: 175:7:177:11 Japanese (1) 174:3 Japan's (1) 156:22 japonica (3) 173:12;174:5,13 **JAS (3)** 76:21,23;77:3 jazzed (1) 207:10 **JEFFERY (13)** 24:10:79:19:81:4; 82:11;83:19;86:17; 87:23;92:4;121:22; 123:13;180:19; 182:17;201:10 jelly (1) 123:7 Jenny (5) 40:25;155:14; 204:4;205:16;207:14 jeopardy (1)

169:20 **Jerry (28)** 7:1:21:1:22:1; 23:17:24:3:79:12: 80:22;82:4;83:12; 86:10;87:17;88:17; 94:24,25;105:13,24, 24;106:3;109:11; 110:8;177:8;181:20; 183:11:189:8:193:19; 196:21;199:2;200:6 job (12) 9:23;15:24;29:20; 56:19:78:22:97:4; 105:25;110:10;123:9; 176:17;207:17; 209:14 jogged (1) 178:17 John (1) 189:15 **JOHNSON (91)** 9:3;14:23;15:22; 16:22;20:16;22:1; 23:25;72:9;73:25; 78:14;79:9;80:19; 82:1;84:10,18;87:8; 88:14,23;105:13,18; 106:19;109:11;113:5; 114:1:116:10:119:9, 21;120:6,18;121:21; 122:15:123:16: 124:23;128:13;131:8; 132:9;133:15;136:12, 18,20;138:3,6;140:1, 7,9;141:12;142:18; 143:5:145:16:146:1, 24;147:3;151:25; 152:16,25;153:3,13; 154:9.18:155:21; 156:3:157:17:158:7: 159:5;161:11:163:19; 164:2,15,20,24;165:9, 13,16;166:5,22; 168:21;171:5,14,18, 21;172:11;178:3,19; 179:3;181:17;183:8; 195:18;198:11; 199:11;202:14; 206:20 join (2) 116:8:198:17 journey (2) 147:8;208:15 joyful (1) 72:24 juice (2) 141:24;169:8 juices (1) 167:13 juicing (1) 169:10 jump (7)

- Vol. 5 May 15, 2024

28:15:38:13:39:25: 89:9;147:7;165:7; 204:5iumped (1) 198:7 jumping (2) 10:9:172:8 **June** (2) 68:4;208:10 jurisdiction (1) 61:1 justify (1) 131:1 K keep (11) 0:20;22:5;37:4; 43:23;59:12;116:5; 122:19;124:21; 129:24;172:4;190:2 keeper (1) 74:23 keeping (10) 35:10;43:17;69:19, 20;104:25;105:4,7; 116:12;196:4,11 keeps (1) 209:9 kelp (2) 174:12.20 kelps (3) 174:7,13;177:9 Kentucky (1) 12:6 Kenya (1) 12:6 kept (2) 114:15:195:19 kev (3) 194:23;198:15; 208:7 kick (7) 25:11;28:10;49:5; 75:5,8;89:10;95:4 kidding (2) 209:12,13 kilograms (1) 162:6 Kim (32) 7:1;24:22;28:17; 69:17;80:1;81:9; 82:16;83:24;86:22; 88:3;135:6;136:13; 140:10;141:12,13; 143:6;145:16,19; 146:3,25;163:19; 164:13;167:6;168:21; 171:6;180:14,24; 182:22:188:13:189:4: 200:16;205:15 kind (71) 19:5;20:20;22:8;

- Vol. 5 May 15, 2024

spring 2024 Meeting	1	1	1	Wiay 13, 2024
22.2 4.25.15.26.0.	lah (4)	166.0 24.172.22.	$\log(1)$	122.4
23:2,4;25:15;26:9;	lab (4)	166:9,24;172:23;	leg (1)	132:4
28:1;35:21;37:23,24;	30:10;33:25;	173:3;186:1;196:20	44:17	lifetime (2)
39:8,24;40:25;43:9;	102:19,25	lasting (2)	legal (1)	70:5,5
47:23;48:10,16;49:5,	label (4)	48:19;65:16	48:6	lift (3)
7,9;50:2;51:9,16;	117:25;125:2,3;	lastly (1)	legally (2)	65:24;189:2;208:5
53:15;59:19;60:22;	208:14	83:4	197:16,16	light (3)
62:18;63:2,14;66:23;	labeled (3)	late (2)	legislation (1)	46:16;91:21;107:6
71:4,10;78:16;84:24;	74:19,21;102:8	181:15;198:19	62:24	lightning (1)
90:7;91:2;94:5,8;	labeling (2)	later (5)	legitimate (2)	89:6
106:12,13;109:13,21;	118:13;124:24	96:20;99:21;102:5;	42:2,2	liked (2)
112:5,19;116:8,24;	labels (1)	122:24;124:16	lengthy (1)	203:22;206:1
118:3;122:23;123:9;	110:14	launch (3)	105:1	likely (3)
127:16;130:15;	lab-grown (1)	49:25;51:8,13	lens (2)	33:22;142:22;196:5
136:25;149:15;	102:20	launched (4)	188:16;208:22	likes (1)
150:25;151:14;152:2;	labor (1)	23:7;52:16,22,25	less (8)	120:24
153:15;154:17;	192:10	law (1)	14:24;17:21;33:7;	limbo (1)
166:10,11;168:18;	laboratories (4)	151:22	72:9;97:2;130:21;	151:14
177:13,21;188:8;	31:10,13,19;46:21	laying (1)	144:13;193:17	limit (1)
189:21,24;196:24;	laboratory (6)	116:11	lesson (2)	169:19
197:2;204:7;205:1	31:6,8;45:3,15;	lays (1)	149:21;152:12	limitation (1)
kindly (1)	46:19;47:5	147:15	letters (1)	74:20
185:1	labs (1)	lead (1)	147:10	limited (22)
kinds (2)	31:13	84:21	letting (1)	76:4;90:23;91:1;
112:19;174:9	lack (5)	leader (1)	124:13	95:20,22;96:4;99:23;
King (2)	34:3;42:14;115:6;	71:19	level (19)	100:1,2,7,12,24;
133:6,10	150:20;199:9	leading (1)	7:20;8:2;26:21,24;	101:15,22;103:13;
kitchen (1)	lactic (7)	68:6	33:13;47:12;50:24,	104:10;125:18;126:8;
48:2	89:11,13,16,18;	leads (2)	25,25;51:2;53:11,14;	134:3;135:24;160:8;
knew (4)	92:18,20,20	208:2,4	54:2,5,10;55:12;	195:10
66:25;122:1,2;	Laminaria (4)	lean (4)	57:14,20;195:13	limits (2)
131:13	173:12;174:5,13,21	72:2;112:3;150:16;	levels (4)	122:24;151:5
Knowing (5)	Laminariaceae (1)	201:7	25:25:41:21:	line (10)
knowing (3) 51:16:66:20.20	Laminariaceae (1)	201:7 Jearn (4)	25:25;41:21;	line (10) 56:17:60:24:61:7:
51:16;66:20,20	174:12	learn (4)	121:13;170:7	56:17;60:24;61:7;
51:16;66:20,20 knowledge (1)	174:12 land (14)	learn (4) 37:6,9,19;59:12	121:13;170:7 leverage (2)	56:17;60:24;61:7; 73:8;93:11;123:10;
51:16;66:20,20 knowledge (1) 165:4	174:12 land (14) 12:22;16:14,24,25;	learn (4) 37:6,9,19;59:12 learned (2)	121:13;170:7 leverage (2) 12:8;53:22	56:17;60:24;61:7; 73:8;93:11;123:10; 146:18;185:15;
51:16;66:20,20 knowledge (1) 165:4 known (5)	174:12 land (14) 12:22;16:14,24,25; 17:2,7,9,20,23;18:20;	learn (4) 37:6,9,19;59:12 learned (2) 59:19;166:24	121:13;170:7 leverage (2) 12:8;53:22 LEWIS (74)	56:17;60:24;61:7; 73:8;93:11;123:10; 146:18;185:15; 189:22;193:8
51:16;66:20,20 knowledge (1) 165:4 known (5) 76:15;139:8;	174:12 land (14) 12:22;16:14,24,25; 17:2,7,9,20,23;18:20; 69:13;149:4;190:9;	learn (4) 37:6,9,19;59:12 learned (2) 59:19;166:24 learning (4)	121:13;170:7 leverage (2) 12:8;53:22 LEWIS (74) 14:16;15:11;16:12;	56:17;60:24;61:7; 73:8;93:11;123:10; 146:18;185:15; 189:22;193:8 liner (1)
51:16;66:20,20 knowledge (1) 165:4 known (5) 76:15;139:8; 141:18;175:8;176:9	174:12 land (14) 12:22;16:14,24,25; 17:2,7,9,20,23;18:20; 69:13;149:4;190:9; 191:12	learn (4) 37:6,9,19;59:12 learned (2) 59:19;166:24 learning (4) 36:9;95:8;179:1;	121:13;170:7 leverage (2) 12:8;53:22 LEWIS (74) 14:16;15:11;16:12; 17:12;23:22,23;25:2;	56:17;60:24;61:7; 73:8;93:11;123:10; 146:18;185:15; 189:22;193:8 liner (1) 28:18
51:16;66:20,20 knowledge (1) 165:4 known (5) 76:15;139:8; 141:18;175:8;176:9 knows (3)	174:12 land (14) 12:22;16:14,24,25; 17:2,7,9,20,23;18:20; 69:13;149:4;190:9; 191:12 lands (1)	learn (4) 37:6,9,19;59:12 learned (2) 59:19;166:24 learning (4) 36:9;95:8;179:1; 196:3	121:13;170:7 leverage (2) 12:8;53:22 LEWIS (74) 14:16;15:11;16:12; 17:12;23:22,23;25:2; 28:14;29:18;36:15;	56:17;60:24;61:7; 73:8;93:11;123:10; 146:18;185:15; 189:22;193:8 liner (1) 28:18 lines (1)
51:16;66:20,20 knowledge (1) 165:4 known (5) 76:15;139:8; 141:18;175:8;176:9	174:12 land (14) 12:22;16:14,24,25; 17:2,7,9,20,23;18:20; 69:13;149:4;190:9; 191:12 lands (1) 57:8	learn (4) 37:6,9,19;59:12 learned (2) 59:19;166:24 learning (4) 36:9;95:8;179:1;	121:13;170:7 leverage (2) 12:8;53:22 LEWIS (74) 14:16;15:11;16:12; 17:12;23:22,23;25:2;	56:17;60:24;61:7; 73:8;93:11;123:10; 146:18;185:15; 189:22;193:8 liner (1) 28:18
51:16;66:20,20 knowledge (1) 165:4 known (5) 76:15;139:8; 141:18;175:8;176:9 knows (3)	174:12 land (14) 12:22;16:14,24,25; 17:2,7,9,20,23;18:20; 69:13;149:4;190:9; 191:12 lands (1)	learn (4) 37:6,9,19;59:12 learned (2) 59:19;166:24 learning (4) 36:9;95:8;179:1; 196:3	121:13;170:7 leverage (2) 12:8;53:22 LEWIS (74) 14:16;15:11;16:12; 17:12;23:22,23;25:2; 28:14;29:18;36:15;	56:17;60:24;61:7; 73:8;93:11;123:10; 146:18;185:15; 189:22;193:8 liner (1) 28:18 lines (1)
51:16;66:20,20 knowledge (1) 165:4 known (5) 76:15;139:8; 141:18;175:8;176:9 knows (3) 61:21;155:14,18 kombu (9)	174:12 land (14) 12:22;16:14,24,25; 17:2,7,9,20,23;18:20; 69:13;149:4;190:9; 191:12 lands (1) 57:8	learn (4) 37:6,9,19;59:12 learned (2) 59:19;166:24 learning (4) 36:9;95:8;179:1; 196:3 learnings (1) 53:1	121:13;170:7 leverage (2) 12:8;53:22 LEWIS (74) 14:16;15:11;16:12; 17:12;23:22,23;25:2; 28:14;29:18;36:15; 38:15;40:2;42:8; 44:24;46:15,25;	56:17;60:24;61:7; 73:8;93:11;123:10; 146:18;185:15; 189:22;193:8 liner (1) 28:18 lines (1) 96:21 link (1)
51:16;66:20,20 knowledge (1) 165:4 known (5) 76:15;139:8; 141:18;175:8;176:9 knows (3) 61:21;155:14,18 kombu (9) 172:24;173:1,11;	174:12 land (14) 12:22;16:14,24,25; 17:2,7,9,20,23;18:20; 69:13;149:4;190:9; 191:12 lands (1) 57:8 landscape (1) 111:19	learn (4) 37:6,9,19;59:12 learned (2) 59:19;166:24 learning (4) 36:9;95:8;179:1; 196:3 learnings (1) 53:1 lease (1)	121:13;170:7 leverage (2) 12:8;53:22 LEWIS (74) 14:16;15:11;16:12; 17:12;23:22,23;25:2; 28:14;29:18;36:15; 38:15;40:2;42:8; 44:24;46:15,25; 58:11;63:16,17,25;	56:17;60:24;61:7; 73:8;93:11;123:10; 146:18;185:15; 189:22;193:8 liner (1) 28:18 lines (1) 96:21 link (1) 158:2
51:16;66:20,20 knowledge (1) 165:4 known (5) 76:15;139:8; 141:18;175:8;176:9 knows (3) 61:21;155:14,18 kombu (9) 172:24;173:1,11; 174:3,8,9,11,14;	174:12 land (14) 12:22;16:14,24,25; 17:2,7,9,20,23;18:20; 69:13;149:4;190:9; 191:12 lands (1) 57:8 landscape (1) 111:19 lane (5)	learn (4) 37:6,9,19;59:12 learned (2) 59:19;166:24 learning (4) 36:9;95:8;179:1; 196:3 learnings (1) 53:1 lease (1) 17:1	121:13;170:7 leverage (2) 12:8;53:22 LEWIS (74) 14:16;15:11;16:12; 17:12;23:22,23;25:2; 28:14;29:18;36:15; 38:15;40:2;42:8; 44:24;46:15,25; 58:11;63:16,17,25; 64:3,7;71:15,16;	56:17;60:24;61:7; 73:8;93:11;123:10; 146:18;185:15; 189:22;193:8 liner (1) 28:18 lines (1) 96:21 link (1) 158:2 linking (1)
51:16;66:20,20 knowledge (1) 165:4 known (5) 76:15;139:8; 141:18;175:8;176:9 knows (3) 61:21;155:14,18 kombu (9) 172:24;173:1,11; 174:3,8,9,11,14; 175:21	174:12 land (14) 12:22;16:14,24,25; 17:2,7,9,20,23;18:20; 69:13;149:4;190:9; 191:12 lands (1) 57:8 landscape (1) 111:19 lane (5) 61:14;204:21;	learn (4) 37:6,9,19;59:12 learned (2) 59:19;166:24 learning (4) 36:9;95:8;179:1; 196:3 learnings (1) 53:1 lease (1) 17:1 least (14)	121:13;170:7 leverage (2) 12:8;53:22 LEWIS (74) 14:16;15:11;16:12; 17:12;23:22,23;25:2; 28:14;29:18;36:15; 38:15;40:2;42:8; 44:24;46:15,25; 58:11;63:16,17,25; 64:3,7;71:15,16; 72:23;73:12;79:6,7;	56:17;60:24;61:7; 73:8;93:11;123:10; 146:18;185:15; 189:22;193:8 liner (1) 28:18 lines (1) 96:21 link (1) 158:2 linking (1) 159:2
51:16;66:20,20 knowledge (1) 165:4 known (5) 76:15;139:8; 141:18;175:8;176:9 knows (3) 61:21;155:14,18 kombu (9) 172:24;173:1,11; 174:3,8,9,11,14; 175:21 Korea (1)	174:12 land (14) 12:22;16:14,24,25; 17:2,7,9,20,23;18:20; 69:13;149:4;190:9; 191:12 lands (1) 57:8 landscape (1) 111:19 lane (5) 61:14;204:21; 205:14,18;206:25	learn (4) 37:6,9,19;59:12 learned (2) 59:19;166:24 learning (4) 36:9;95:8;179:1; 196:3 learnings (1) 53:1 lease (1) 17:1 least (14) 46:16;54:4;55:24;	121:13;170:7 leverage (2) 12:8;53:22 LEWIS (74) 14:16;15:11;16:12; 17:12;23:22,23;25:2; 28:14;29:18;36:15; 38:15;40:2;42:8; 44:24;46:15,25; 58:11;63:16,17,25; 64:3,7;71:15,16; 72:23;73:12;79:6,7; 80:8,15,17;81:18,24;	56:17;60:24;61:7; 73:8;93:11;123:10; 146:18;185:15; 189:22;193:8 liner (1) 28:18 lines (1) 96:21 link (1) 158:2 linking (1) 159:2 Lipson (1)
51:16;66:20,20 knowledge (1) 165:4 known (5) 76:15;139:8; 141:18;175:8;176:9 knows (3) 61:21;155:14,18 kombu (9) 172:24;173:1,11; 174:3,8,9,11,14; 175:21 Korea (1) 174:17	174:12 land (14) 12:22;16:14,24,25; 17:2,7,9,20,23;18:20; 69:13;149:4;190:9; 191:12 lands (1) 57:8 landscape (1) 111:19 lane (5) 61:14;204:21; 205:14,18;206:25 language (3)	learn (4) 37:6,9,19;59:12 learned (2) 59:19;166:24 learning (4) 36:9;95:8;179:1; 196:3 learnings (1) 53:1 lease (1) 17:1 least (14) 46:16;54:4;55:24; 56:6;59:5;68:13;	121:13;170:7 leverage (2) 12:8;53:22 LEWIS (74) 14:16;15:11;16:12; 17:12;23:22,23;25:2; 28:14;29:18;36:15; 38:15;40:2;42:8; 44:24;46:15,25; 58:11;63:16,17,25; 64:3,7;71:15,16; 72:23;73:12;79:6,7; 80:8,15,17;81:18,24; 82:24,25;83:2;84:7,8,	56:17;60:24;61:7; 73:8;93:11;123:10; 146:18;185:15; 189:22;193:8 liner (1) 28:18 lines (1) 96:21 link (1) 158:2 linking (1) 159:2 Lipson (1) 62:21
51:16;66:20,20 knowledge (1) 165:4 known (5) 76:15;139:8; 141:18;175:8;176:9 knows (3) 61:21;155:14,18 kombu (9) 172:24;173:1,11; 174:3,8,9,11,14; 175:21 Korea (1) 174:17 kurilensis (1)	174:12 land (14) 12:22;16:14,24,25; 17:2,7,9,20,23;18:20; 69:13;149:4;190:9; 191:12 lands (1) 57:8 landscape (1) 111:19 lane (5) 61:14;204:21; 205:14,18;206:25 language (3) 12:2;96:23;107:8	learn (4) 37:6,9,19;59:12 learned (2) 59:19;166:24 learning (4) 36:9;95:8;179:1; 196:3 learnings (1) 53:1 lease (1) 17:1 least (14) 46:16;54:4;55:24; 56:6;59:5;68:13; 113:18;118:21;	121:13;170:7 leverage (2) 12:8;53:22 LEWIS (74) 14:16;15:11;16:12; 17:12;23:22,23;25:2; 28:14;29:18;36:15; 38:15;40:2;42:8; 44:24;46:15,25; 58:11;63:16,17,25; 64:3,7;71:15,16; 72:23;73:12;79:6,7; 80:8,15,17;81:18,24; 82:24,25;83:2;84:7,8, 12;87:5,6,12;88:11,	56:17;60:24;61:7; 73:8;93:11;123:10; 146:18;185:15; 189:22;193:8 liner (1) 28:18 lines (1) 96:21 link (1) 158:2 linking (1) 159:2 Lipson (1) 62:21 liquids (1)
51:16;66:20,20 knowledge (1) 165:4 known (5) 76:15;139:8; 141:18;175:8;176:9 knows (3) 61:21;155:14,18 kombu (9) 172:24;173:1,11; 174:3,8,9,11,14; 175:21 Korea (1) 174:17 kurilensis (1) 174:15	174:12 land (14) 12:22;16:14,24,25; 17:2,7,9,20,23;18:20; 69:13;149:4;190:9; 191:12 lands (1) 57:8 landscape (1) 111:19 lane (5) 61:14;204:21; 205:14,18;206:25 language (3) 12:2;96:23;107:8 large (5)	learn (4) 37:6,9,19;59:12 learned (2) 59:19;166:24 learning (4) 36:9;95:8;179:1; 196:3 learnings (1) 53:1 lease (1) 17:1 least (14) 46:16;54:4;55:24; 56:6;59:5;68:13; 113:18;118:21; 132:11;152:7;160:19;	121:13;170:7 leverage (2) 12:8;53:22 LEWIS (74) 14:16;15:11;16:12; 17:12;23:22,23;25:2; 28:14;29:18;36:15; 38:15;40:2;42:8; 44:24;46:15,25; 58:11;63:16,17,25; 64:3,7;71:15,16; 72:23;73:12;79:6,7; 80:8,15,17;81:18,24; 82:24,25;83:2;84:7,8, 12;87:5,6,12;88:11, 12,20;89:11,14;	56:17;60:24;61:7; 73:8;93:11;123:10; 146:18;185:15; 189:22;193:8 liner (1) 28:18 lines (1) 96:21 link (1) 158:2 linking (1) 159:2 Lipson (1) 62:21 liquids (1) 140:19
51:16;66:20,20 knowledge (1) 165:4 known (5) 76:15;139:8; 141:18;175:8;176:9 knows (3) 61:21;155:14,18 kombu (9) 172:24;173:1,11; 174:3,8,9,11,14; 175:21 Korea (1) 174:17 kurilensis (1) 174:15 Kyla (32)	174:12 land (14) 12:22;16:14,24,25; 17:2,7,9,20,23;18:20; 69:13;149:4;190:9; 191:12 lands (1) 57:8 landscape (1) 111:19 lane (5) 61:14;204:21; 205:14,18;206:25 language (3) 12:2;96:23;107:8 large (5) 16:1;41:18;68:4;	learn (4) 37:6,9,19;59:12 learned (2) 59:19;166:24 learning (4) 36:9;95:8;179:1; 196:3 learnings (1) 53:1 lease (1) 17:1 least (14) 46:16;54:4;55:24; 56:6;59:5;68:13; 113:18;118:21; 132:11;152:7;160:19; 164:15;167:11;	121:13;170:7 leverage (2) 12:8;53:22 LEWIS (74) 14:16;15:11;16:12; 17:12;23:22,23;25:2; 28:14;29:18;36:15; 38:15;40:2;42:8; 44:24;46:15,25; 58:11;63:16,17,25; 64:3,7;71:15,16; 72:23;73:12;79:6,7; 80:8,15,17;81:18,24; 82:24,25;83:2;84:7,8, 12;87:5,6,12;88:11, 12,20;89:11,14; 92:19;94:10,12;	56:17;60:24;61:7; 73:8;93:11;123:10; 146:18;185:15; 189:22;193:8 liner (1) 28:18 lines (1) 96:21 link (1) 158:2 linking (1) 159:2 Lipson (1) 62:21 liquids (1) 140:19 list (73)
51:16;66:20,20 knowledge (1) 165:4 known (5) 76:15;139:8; 141:18;175:8;176:9 knows (3) 61:21;155:14,18 kombu (9) 172:24;173:1,11; 174:3,8,9,11,14; 175:21 Korea (1) 174:17 kurilensis (1) 174:15 Kyla (32) 0:18;14:10,12;	174:12 land (14) 12:22;16:14,24,25; 17:2,7,9,20,23;18:20; 69:13;149:4;190:9; 191:12 lands (1) 57:8 landscape (1) 111:19 lane (5) 61:14;204:21; 205:14,18;206:25 language (3) 12:2;96:23;107:8 large (5) 16:1;41:18;68:4; 115:12;140:23	learn (4) 37:6,9,19;59:12 learned (2) 59:19;166:24 learning (4) 36:9;95:8;179:1; 196:3 learnings (1) 53:1 lease (1) 17:1 least (14) 46:16;54:4;55:24; 56:6;59:5;68:13; 113:18;118:21; 132:11;152:7;160:19; 164:15;167:11; 198:21	121:13;170:7 leverage (2) 12:8;53:22 LEWIS (74) 14:16;15:11;16:12; 17:12;23:22,23;25:2; 28:14;29:18;36:15; 38:15;40:2;42:8; 44:24;46:15,25; 58:11;63:16,17,25; 64:3,7;71:15,16; 72:23;73:12;79:6,7; 80:8,15,17;81:18,24; 82:24,25;83:2;84:7,8, 12;87:5,6,12;88:11, 12,20;89:11,14; 92:19;94:10,12; 117:9;120:14;128:19;	56:17;60:24;61:7; 73:8;93:11;123:10; 146:18;185:15; 189:22;193:8 liner (1) 28:18 lines (1) 96:21 link (1) 158:2 linking (1) 159:2 Lipson (1) 62:21 liquids (1) 140:19 list (73) 21:16,18;31:24;
51:16;66:20,20 knowledge (1) 165:4 known (5) 76:15;139:8; 141:18;175:8;176:9 knows (3) 61:21;155:14,18 kombu (9) 172:24;173:1,11; 174:3,8,9,11,14; 175:21 Korea (1) 174:17 kurilensis (1) 174:15 Kyla (32)	174:12 land (14) 12:22;16:14,24,25; 17:2,7,9,20,23;18:20; 69:13;149:4;190:9; 191:12 lands (1) 57:8 landscape (1) 111:19 lane (5) 61:14;204:21; 205:14,18;206:25 language (3) 12:2;96:23;107:8 large (5) 16:1;41:18;68:4;	learn (4) 37:6,9,19;59:12 learned (2) 59:19;166:24 learning (4) 36:9;95:8;179:1; 196:3 learnings (1) 53:1 lease (1) 17:1 least (14) 46:16;54:4;55:24; 56:6;59:5;68:13; 113:18;118:21; 132:11;152:7;160:19; 164:15;167:11;	121:13;170:7 leverage (2) 12:8;53:22 LEWIS (74) 14:16;15:11;16:12; 17:12;23:22,23;25:2; 28:14;29:18;36:15; 38:15;40:2;42:8; 44:24;46:15,25; 58:11;63:16,17,25; 64:3,7;71:15,16; 72:23;73:12;79:6,7; 80:8,15,17;81:18,24; 82:24,25;83:2;84:7,8, 12;87:5,6,12;88:11, 12,20;89:11,14; 92:19;94:10,12;	56:17;60:24;61:7; 73:8;93:11;123:10; 146:18;185:15; 189:22;193:8 liner (1) 28:18 lines (1) 96:21 link (1) 158:2 linking (1) 159:2 Lipson (1) 62:21 liquids (1) 140:19 list (73)
51:16;66:20,20 knowledge (1) 165:4 known (5) 76:15;139:8; 141:18;175:8;176:9 knows (3) 61:21;155:14,18 kombu (9) 172:24;173:1,11; 174:3,8,9,11,14; 175:21 Korea (1) 174:17 kurilensis (1) 174:15 Kyla (32) 0:18;14:10,12; 15:23;23:11;35:25; 47:8;70:13;73:14;	174:12 land (14) 12:22;16:14,24,25; 17:2,7,9,20,23;18:20; 69:13;149:4;190:9; 191:12 lands (1) 57:8 landscape (1) 111:19 lane (5) 61:14;204:21; 205:14,18;206:25 language (3) 12:2;96:23;107:8 large (5) 16:1;41:18;68:4; 115:12;140:23	learn (4) 37:6,9,19;59:12 learned (2) 59:19;166:24 learning (4) 36:9;95:8;179:1; 196:3 learnings (1) 53:1 lease (1) 17:1 least (14) 46:16;54:4;55:24; 56:6;59:5;68:13; 113:18;118:21; 132:11;152:7;160:19; 164:15;167:11; 198:21	121:13;170:7 leverage (2) 12:8;53:22 LEWIS (74) 14:16;15:11;16:12; 17:12;23:22,23;25:2; 28:14;29:18;36:15; 38:15;40:2;42:8; 44:24;46:15,25; 58:11;63:16,17,25; 64:3,7;71:15,16; 72:23;73:12;79:6,7; 80:8,15,17;81:18,24; 82:24,25;83:2;84:7,8, 12;87:5,6,12;88:11, 12,20;89:11,14; 92:19;94:10,12; 117:9;120:14;128:19;	56:17;60:24;61:7; 73:8;93:11;123:10; 146:18;185:15; 189:22;193:8 liner (1) 28:18 lines (1) 96:21 link (1) 158:2 linking (1) 159:2 Lipson (1) 62:21 liquids (1) 140:19 list (73) 21:16,18;31:24;
51:16;66:20,20 knowledge (1) 165:4 known (5) 76:15;139:8; 141:18;175:8;176:9 knows (3) 61:21;155:14,18 kombu (9) 172:24;173:1,11; 174:3,8,9,11,14; 175:21 Korea (1) 174:17 kurilensis (1) 174:15 Kyla (32) 0:18;14:10,12; 15:23;23:11;35:25; 47:8;70:13;73:14;	174:12 land (14) 12:22;16:14,24,25; 17:2,7,9,20,23;18:20; 69:13;149:4;190:9; 191:12 lands (1) 57:8 landscape (1) 111:19 lane (5) 61:14;204:21; 205:14,18;206:25 language (3) 12:2;96:23;107:8 large (5) 16:1;41:18;68:4; 115:12;140:23 largely (3) 94:2;114:11;145:4	learn (4) 37:6,9,19;59:12 learned (2) 59:19;166:24 learning (4) 36:9;95:8;179:1; 196:3 learnings (1) 53:1 lease (1) 17:1 least (14) 46:16;54:4;55:24; 56:6;59:5;68:13; 113:18;118:21; 132:11;152:7;160:19; 164:15;167:11; 198:21 leave (4) 113:4;116:7;149:2;	121:13;170:7 leverage (2) 12:8;53:22 LEWIS (74) 14:16;15:11;16:12; 17:12;23:22,23;25:2; 28:14;29:18;36:15; 38:15;40:2;42:8; 44:24;46:15,25; 58:11;63:16,17,25; 64:3,7;71:15,16; 72:23;73:12;79:6,7; 80:8,15,17;81:18,24; 82:24,25;83:2;84:7,8, 12;87:5,6,12;88:11, 12,20;89:11,14; 92:19;94:10,12; 117:9;120:14;128:19; 131:21;132:4;141:16; 143:4;145:19;151:19;	56:17;60:24;61:7; 73:8;93:11;123:10; 146:18;185:15; 189:22;193:8 liner (1) 28:18 lines (1) 96:21 link (1) 158:2 linking (1) 159:2 Lipson (1) 62:21 liquids (1) 140:19 list (73) 21:16,18;31:24; 32:1,1,2,5,6;34:16; 45:8;50:7,8;52:19;
51:16;66:20,20 knowledge (1) 165:4 known (5) 76:15;139:8; 141:18;175:8;176:9 knows (3) 61:21;155:14,18 kombu (9) 172:24;173:1,11; 174:3,8,9,11,14; 175:21 Korea (1) 174:17 kurilensis (1) 174:15 Kyla (32) 0:18;14:10,12; 15:23;23:11;35:25; 47:8;70:13;73:14; 75:8;78:14;84:18;	174:12 land (14) 12:22;16:14,24,25; 17:2,7,9,20,23;18:20; 69:13;149:4;190:9; 191:12 lands (1) 57:8 landscape (1) 111:19 lane (5) 61:14;204:21; 205:14,18;206:25 language (3) 12:2;96:23;107:8 large (5) 16:1;41:18;68:4; 115:12;140:23 largely (3) 94:2;114:11;145:4 larger (2)	learn (4) 37:6,9,19;59:12 learned (2) 59:19;166:24 learning (4) 36:9;95:8;179:1; 196:3 learnings (1) 53:1 lease (1) 17:1 least (14) 46:16;54:4;55:24; 56:6;59:5;68:13; 113:18;118:21; 132:11;152:7;160:19; 164:15;167:11; 198:21 leave (4) 113:4;116:7;149:2; 150:25	121:13;170:7 leverage (2) 12:8;53:22 LEWIS (74) 14:16;15:11;16:12; 17:12;23:22,23;25:2; 28:14;29:18;36:15; 38:15;40:2;42:8; 44:24;46:15,25; 58:11;63:16,17,25; 64:3,7;71:15,16; 72:23;73:12;79:6,7; 80:8,15,17;81:18,24; 82:24,25;83:2;84:7,8, 12;87:5,6,12;88:11, 12,20;89:11,14; 92:19;94:10,12; 117:9;120:14;128:19; 131:21;132:4;141:16; 143:4;145:19;151:19; 154:10;181:7,8,25;	56:17;60:24;61:7; 73:8;93:11;123:10; 146:18;185:15; 189:22;193:8 liner (1) 28:18 lines (1) 96:21 link (1) 158:2 linking (1) 159:2 Lipson (1) 62:21 liquids (1) 140:19 list (73) 21:16,18;31:24; 32:1,1,2,5,6;34:16; 45:8;50:7,8;52:19; 56:5;74:3,5;75:1,22;
51:16;66:20,20 knowledge (1) 165:4 known (5) 76:15;139:8; 141:18;175:8;176:9 knows (3) 61:21;155:14,18 kombu (9) 172:24;173:1,11; 174:3,8,9,11,14; 175:21 Korea (1) 174:17 kurilensis (1) 174:15 Kyla (32) 0:18;14:10,12; 15:23;23:11;35:25; 47:8;70:13;73:14; 75:8;78:14;84:18; 85:14;88:24;106:5,	174:12 land (14) 12:22;16:14,24,25; 17:2,7,9,20,23;18:20; 69:13;149:4;190:9; 191:12 lands (1) 57:8 landscape (1) 111:19 lane (5) 61:14;204:21; 205:14,18;206:25 language (3) 12:2;96:23;107:8 large (5) 16:1;41:18;68:4; 115:12;140:23 largely (3) 94:2;114:11;145:4 larger (2) 143:24;197:22	learn (4) 37:6,9,19;59:12 learned (2) 59:19;166:24 learning (4) 36:9;95:8;179:1; 196:3 learnings (1) 53:1 lease (1) 17:1 least (14) 46:16;54:4;55:24; 56:6;59:5;68:13; 113:18;118:21; 132:11;152:7;160:19; 164:15;167:11; 198:21 leave (4) 113:4;116:7;149:2; 150:25 leavening (2)	121:13;170:7 leverage (2) 12:8;53:22 LEWIS (74) 14:16;15:11;16:12; 17:12;23:22,23;25:2; 28:14;29:18;36:15; 38:15;40:2;42:8; 44:24;46:15,25; 58:11;63:16,17,25; 64:3,7;71:15,16; 72:23;73:12;79:6,7; 80:8,15,17;81:18,24; 82:24,25;83:2;84:7,8, 12;87:5,6,12;88:11, 12,20;89:11,14; 92:19;94:10,12; 117:9;120:14;128:19; 131:21;132:4;141:16; 143:4;145:19;151:19; 154:10;181:7,8,25; 183:5,6,18;194:8,9,	56:17;60:24;61:7; 73:8;93:11;123:10; 146:18;185:15; 189:22;193:8 liner (1) 28:18 lines (1) 96:21 link (1) 158:2 linking (1) 159:2 Lipson (1) 62:21 liquids (1) 140:19 list (73) 21:16,18;31:24; 32:1,1,2,5,6;34:16; 45:8;50:7,8;52:19; 56:5;74:3,5;75:1,22; 77:16,19;78:8,17,20;
51:16;66:20,20 knowledge (1) 165:4 known (5) 76:15;139:8; 141:18;175:8;176:9 knows (3) 61:21;155:14,18 kombu (9) 172:24;173:1,11; 174:3,8,9,11,14; 175:21 Korea (1) 174:17 kurilensis (1) 174:15 Kyla (32) 0:18;14:10,12; 15:23;23:11;35:25; 47:8;70:13;73:14; 75:8;78:14;84:18; 85:14;88:24;106:5, 18,21;108:3;113:5;	174:12 land (14) 12:22;16:14,24,25; 17:2,7,9,20,23;18:20; 69:13;149:4;190:9; 191:12 lands (1) 57:8 landscape (1) 111:19 lane (5) 61:14;204:21; 205:14,18;206:25 language (3) 12:2;96:23;107:8 large (5) 16:1;41:18;68:4; 115:12;140:23 largely (3) 94:2;114:11;145:4 larger (2) 143:24;197:22 largest (1)	learn (4) 37:6,9,19;59:12 learned (2) 59:19;166:24 learning (4) 36:9;95:8;179:1; 196:3 learnings (1) 53:1 lease (1) 17:1 least (14) 46:16;54:4;55:24; 56:6;59:5;68:13; 113:18;118:21; 132:11;152:7;160:19; 164:15;167:11; 198:21 leave (4) 113:4;116:7;149:2; 150:25 leavening (2) 158:16,21	121:13;170:7 $leverage (2)$ $12:8;53:22$ $LEWIS (74)$ $14:16;15:11;16:12;$ $17:12;23:22,23;25:2;$ $28:14;29:18;36:15;$ $38:15;40:2;42:8;$ $44:24;46:15,25;$ $58:11;63:16,17,25;$ $64:3,7;71:15,16;$ $72:23;73:12;79:6,7;$ $80:8,15,17;81:18,24;$ $82:24,25;83:2;84:7,8,$ $12;87:5,6,12;88:11,$ $12,20;89:11,14;$ $92:19;94:10,12;$ $117:9;120:14;128:19;$ $131:21;132:4;141:16;$ $143:4;145:19;151:19;$ $154:10;181:7,8,25;$ $183:5,6,18;194:8,9,$ $15,17,20,24;206:9,10$	56:17;60:24;61:7; 73:8;93:11;123:10; 146:18;185:15; 189:22;193:8 liner (1) 28:18 lines (1) 96:21 link (1) 158:2 linking (1) 159:2 Lipson (1) 62:21 liquids (1) 140:19 list (73) 21:16,18;31:24; 32:1,1,2,5,6;34:16; 45:8;50:7,8;52:19; 56:5;74:3,5;75:1,22; 77:16,19;78:8,17,20; 85:19;90:2;93:7;94:4;
51:16;66:20,20 knowledge (1) 165:4 known (5) 76:15;139:8; 141:18;175:8;176:9 knows (3) 61:21;155:14,18 kombu (9) 172:24;173:1,11; 174:3,8,9,11,14; 175:21 Korea (1) 174:17 kurilensis (1) 174:15 Kyla (32) 0:18;14:10,12; 15:23;23:11;35:25; 47:8;70:13;73:14; 75:8;78:14;84:18; 85:14;88:24;106:5, 18,21;108:3;113:5; 125:13;128:13;	174:12 land (14) 12:22;16:14,24,25; 17:2,7,9,20,23;18:20; 69:13;149:4;190:9; 191:12 lands (1) 57:8 landscape (1) 111:19 lane (5) 61:14;204:21; 205:14,18;206:25 language (3) 12:2;96:23;107:8 large (5) 16:1;41:18;68:4; 115:12;140:23 largely (3) 94:2;114:11;145:4 larger (2) 143:24;197:22 largest (1) 127:9	learn (4) 37:6,9,19;59:12 learned (2) 59:19;166:24 learning (4) 36:9;95:8;179:1; 196:3 learnings (1) 53:1 lease (1) 17:1 least (14) 46:16;54:4;55:24; 56:6;59:5;68:13; 113:18;118:21; 132:11;152:7;160:19; 164:15;167:11; 198:21 leave (4) 113:4;116:7;149:2; 150:25 leavening (2) 158:16,21 leaving (1)	121:13;170:7 leverage (2) 12:8;53:22 LEWIS (74) 14:16;15:11;16:12; 17:12;23:22,23;25:2; 28:14;29:18;36:15; 38:15;40:2;42:8; 44:24;46:15,25; 58:11;63:16,17,25; 64:3,7;71:15,16; 72:23;73:12;79:6,7; 80:8,15,17;81:18,24; 82:24,25;83:2;84:7,8, 12;87:5,6,12;88:11, 12,20;89:11,14; 92:19;94:10,12; 117:9;120:14;128:19; 131:21;132:4;141:16; 143:4;145:19;151:19; 154:10;181:7,8,25; 183:5,6,18;194:8,9, 15,17,20,24;206:9,10 lie (1)	56:17;60:24;61:7; 73:8;93:11;123:10; 146:18;185:15; 189:22;193:8 liner (1) 28:18 lines (1) 96:21 link (1) 158:2 linking (1) 159:2 Lipson (1) 62:21 liquids (1) 140:19 list (73) 21:16,18;31:24; 32:1,1,2,5,6;34:16; 45:8;50:7,8;52:19; 56:5;74:3,5;75:1,22; 77:16,19;78:8,17,20; 85:19;90:2;93:7;94:4; 96:11,12,18,25;97:18,
51:16;66:20,20 knowledge (1) 165:4 known (5) 76:15;139:8; 141:18;175:8;176:9 knows (3) 61:21;155:14,18 kombu (9) 172:24;173:1,11; 174:3,8,9,11,14; 175:21 Korea (1) 174:17 kurilensis (1) 174:15 Kyla (32) 0:18;14:10,12; 15:23;23:11;35:25; 47:8;70:13;73:14; 75:8;78:14;84:18; 85:14;88:24;106:5, 18,21;108:3;113:5; 125:13;128:13; 132:20;152:10;	174:12 land (14) 12:22;16:14,24,25; 17:2,7,9,20,23;18:20; 69:13;149:4;190:9; 191:12 lands (1) 57:8 landscape (1) 111:19 lane (5) 61:14;204:21; 205:14,18;206:25 language (3) 12:2;96:23;107:8 large (5) 16:1;41:18;68:4; 115:12;140:23 largely (3) 94:2;114:11;145:4 larger (2) 143:24;197:22 largest (1) 127:9 Last (27)	learn (4) 37:6,9,19;59:12 learned (2) 59:19;166:24 learning (4) 36:9;95:8;179:1; 196:3 learnings (1) 53:1 lease (1) 17:1 least (14) 46:16;54:4;55:24; 56:6;59:5;68:13; 113:18;118:21; 132:11;152:7;160:19; 164:15;167:11; 198:21 leave (4) 113:4;116:7;149:2; 150:25 leavening (2) 158:16,21 leaving (1) 69:25	121:13;170:7 leverage (2) 12:8;53:22 LEWIS (74) 14:16;15:11;16:12; 17:12;23:22,23;25:2; 28:14;29:18;36:15; 38:15;40:2;42:8; 44:24;46:15,25; 58:11;63:16,17,25; 64:3,7;71:15,16; 72:23;73:12;79:6,7; 80:8,15,17;81:18,24; 82:24,25;83:2;84:7,8, 12;87:5,6,12;88:11, 12,20;89:11,14; 92:19;94:10,12; 117:9;120:14;128:19; 131:21;132:4;141:16; 143:4;145:19;151:19; 154:10;181:7,8,25; 183:5,6,18;194:8,9, 15,17,20,24;206:9,10 lie (1) 71:6	56:17;60:24;61:7; 73:8;93:11;123:10; 146:18;185:15; 189:22;193:8 liner (1) 28:18 lines (1) 96:21 link (1) 158:2 linking (1) 159:2 Lipson (1) 62:21 liquids (1) 140:19 list (73) 21:16,18;31:24; 32:1,1,2,5,6;34:16; 45:8;50:7,8;52:19; 56:5;74:3,5;75:1,22; 77:16,19;78:8,17,20; 85:19;90:2;93:7;94:4; 96:11,12,18,25;97:18, 21;98:1,23;99:8,9;
51:16;66:20,20 knowledge (1) 165:4 known (5) 76:15;139:8; 141:18;175:8;176:9 knows (3) 61:21;155:14,18 kombu (9) 172:24;173:1,11; 174:3,8,9,11,14; 175:21 Korea (1) 174:17 kurilensis (1) 174:15 Kyla (32) 0:18;14:10,12; 15:23;23:11;35:25; 47:8;70:13;73:14; 75:8;78:14;84:18; 85:14;88:24;106:5, 18,21;108:3;113:5; 125:13;128:13; 132:20;152:10; 153:24;159:8;161:12;	174:12 land (14) 12:22;16:14,24,25; 17:2,7,9,20,23;18:20; 69:13;149:4;190:9; 191:12 lands (1) 57:8 landscape (1) 111:19 lane (5) 61:14;204:21; 205:14,18;206:25 language (3) 12:2;96:23;107:8 large (5) 16:1;41:18;68:4; 115:12;140:23 largely (3) 94:2;114:11;145:4 larger (2) 143:24;197:22 largest (1) 127:9 Last (27) 0:5,20;7:22;10:11;	learn (4) 37:6,9,19;59:12 learned (2) 59:19;166:24 learning (4) 36:9;95:8;179:1; 196:3 learnings (1) 53:1 lease (1) 17:1 least (14) 46:16;54:4;55:24; 56:6;59:5;68:13; 113:18;118:21; 132:11;152:7;160:19; 164:15;167:11; 198:21 leave (4) 113:4;116:7;149:2; 150:25 leavening (2) 158:16,21 leaving (1) 69:25 lecithin (1)	121:13;170:7 leverage (2) 12:8;53:22 LEWIS (74) 14:16;15:11;16:12; 17:12;23:22,23;25:2; 28:14;29:18;36:15; 38:15;40:2;42:8; 44:24;46:15,25; 58:11;63:16,17,25; 64:3,7;71:15,16; 72:23;73:12;79:6,7; 80:8,15,17;81:18,24; 82:24,25;83:2;84:7,8, 12;87:5,6,12;88:11, 12,20;89:11,14; 92:19;94:10,12; 117:9;120:14;128:19; 131:21;132:4;141:16; 143:4;145:19;151:19; 154:10;181:7,8,25; 183:5,6,18;194:8,9, 15,17,20,24;206:9,10 lie (1) 71:6 lies (1)	56:17;60:24;61:7; 73:8;93:11;123:10; 146:18;185:15; 189:22;193:8 liner (1) 28:18 lines (1) 96:21 link (1) 158:2 linking (1) 159:2 Lipson (1) 62:21 liquids (1) 140:19 list (73) 21:16,18;31:24; 32:1,1,2,5,6;34:16; 45:8;50:7,8;52:19; 56:5;74:3,5;75:1,22; 77:16,19;78:8,17,20; 85:19;90:2;93:7;94:4; 96:11,12,18,25;97:18, 21;98:1,23;99:8,9; 100:16;105:1,5,8;
51:16;66:20,20 knowledge (1) 165:4 known (5) 76:15;139:8; 141:18;175:8;176:9 knows (3) 61:21;155:14,18 kombu (9) 172:24;173:1,11; 174:3,8,9,11,14; 175:21 Korea (1) 174:17 kurilensis (1) 174:15 Kyla (32) 0:18;14:10,12; 15:23;23:11;35:25; 47:8;70:13;73:14; 75:8;78:14;84:18; 85:14;88:24;106:5, 18,21;108:3;113:5; 125:13;128:13; 132:20;152:10; 153:24;159:8;161:12; 168:25;171:5,25;	174:12 land (14) 12:22;16:14,24,25; 17:2,7,9,20,23;18:20; 69:13;149:4;190:9; 191:12 lands (1) 57:8 landscape (1) 111:19 lane (5) 61:14;204:21; 205:14,18;206:25 language (3) 12:2;96:23;107:8 large (5) 16:1;41:18;68:4; 115:12;140:23 largely (3) 94:2;114:11;145:4 larger (2) 143:24;197:22 largest (1) 127:9 Last (27) 0:5,20;7:22;10:11; 21:6,10,15,17;34:12;	learn (4) 37:6,9,19;59:12 learned (2) 59:19;166:24 learning (4) 36:9;95:8;179:1; 196:3 learnings (1) 53:1 lease (1) 17:1 least (14) 46:16;54:4;55:24; 56:6;59:5;68:13; 113:18;118:21; 132:11;152:7;160:19; 164:15;167:11; 198:21 leave (4) 113:4;116:7;149:2; 150:25 leavening (2) 158:16,21 leaving (1) 69:25 lecithin (1) 157:3	121:13;170:7 leverage (2) 12:8;53:22 LEWIS (74) 14:16;15:11;16:12; 17:12;23:22,23;25:2; 28:14;29:18;36:15; 38:15;40:2;42:8; 44:24;46:15,25; 58:11;63:16,17,25; 64:3,7;71:15,16; 72:23;73:12;79:6,7; 80:8,15,17;81:18,24; 82:24,25;83:2;84:7,8, 12;87:5,6,12;88:11, 12,20;89:11,14; 92:19;94:10,12; 117:9;120:14;128:19; 131:21;132:4;141:16; 143:4;145:19;151:19; 154:10;181:7,8,25; 183:5,6,18;194:8,9, 15,17,20,24;206:9,10 lie (1) 71:6 lies (1) 60:16	56:17;60:24;61:7; 73:8;93:11;123:10; 146:18;185:15; 189:22;193:8 liner (1) 28:18 lines (1) 96:21 link (1) 158:2 linking (1) 159:2 Lipson (1) 62:21 liquids (1) 140:19 list (73) 21:16,18;31:24; 32:1,1,2,5,6;34:16; 45:8;50:7,8;52:19; 56:5;74:3,5;75:1,22; 77:16,19;78:8,17,20; 85:19;90:2;93:7;94:4; 96:11,12,18,25;97:18, 21;98:1,23;99:8,9; 100:16;105:1,5,8; 114:10,15;116:5;
51:16;66:20,20 knowledge (1) 165:4 known (5) 76:15;139:8; 141:18;175:8;176:9 knows (3) 61:21;155:14,18 kombu (9) 172:24;173:1,11; 174:3,8,9,11,14; 175:21 Korea (1) 174:17 kurilensis (1) 174:15 Kyla (32) 0:18;14:10,12; 15:23;23:11;35:25; 47:8;70:13;73:14; 75:8;78:14;84:18; 85:14;88:24;106:5, 18,21;108:3;113:5; 125:13;128:13; 132:20;152:10; 153:24;159:8;161:12;	174:12 land (14) 12:22;16:14,24,25; 17:2,7,9,20,23;18:20; 69:13;149:4;190:9; 191:12 lands (1) 57:8 landscape (1) 111:19 lane (5) 61:14;204:21; 205:14,18;206:25 language (3) 12:2;96:23;107:8 large (5) 16:1;41:18;68:4; 115:12;140:23 largely (3) 94:2;114:11;145:4 larger (2) 143:24;197:22 largest (1) 127:9 Last (27) 0:5,20;7:22;10:11; 21:6,10,15,17;34:12; 36:18;56:13;63:10;	learn (4) 37:6,9,19;59:12 learned (2) 59:19;166:24 learning (4) 36:9;95:8;179:1; 196:3 learnings (1) 53:1 lease (1) 17:1 least (14) 46:16;54:4;55:24; 56:6;59:5;68:13; 113:18;118:21; 132:11;152:7;160:19; 164:15;167:11; 198:21 leave (4) 113:4;116:7;149:2; 150:25 leavening (2) 158:16,21 leaving (1) 69:25 lecithin (1) 157:3 lecture (1)	121:13;170:7 leverage (2) 12:8;53:22 LEWIS (74) 14:16;15:11;16:12; 17:12;23:22,23;25:2; 28:14;29:18;36:15; 38:15;40:2;42:8; 44:24;46:15,25; 58:11;63:16,17,25; 64:3,7;71:15,16; 72:23;73:12;79:6,7; 80:8,15,17;81:18,24; 82:24,25;83:2;84:7,8, 12;87:5,6,12;88:11, 12,20;89:11,14; 92:19;94:10,12; 117:9;120:14;128:19; 131:21;132:4;141:16; 143:4;145:19;151:19; 154:10;181:7,8,25; 183:5,6,18;194:8,9, 15,17,20,24;206:9,10 lie (1) 71:6 lies (1) 60:16 life (4)	56:17;60:24;61:7; 73:8;93:11;123:10; 146:18;185:15; 189:22;193:8 liner (1) 28:18 lines (1) 96:21 link (1) 158:2 linking (1) 159:2 Lipson (1) 62:21 liquids (1) 140:19 list (73) 21:16,18;31:24; 32:1,1,2,5,6;34:16; 45:8;50:7,8;52:19; 56:5;74:3,5;75:1,22; 77:16,19;78:8,17,20; 85:19;90:2;93:7;94:4; 96:11,12,18,25;97:18, 21;98:1,23;99:8,9; 100:16;105:1,5,8; 114:10,15;116:5; 118:9,22;119:1;
51:16;66:20,20 knowledge (1) 165:4 known (5) 76:15;139:8; 141:18;175:8;176:9 knows (3) 61:21;155:14,18 kombu (9) 172:24;173:1,11; 174:3,8,9,11,14; 175:21 Korea (1) 174:17 kurilensis (1) 174:15 Kyla (32) 0:18;14:10,12; 15:23;23:11;35:25; 47:8;70:13;73:14; 75:8;78:14;84:18; 85:14;88:24;106:5, 18,21;108:3;113:5; 125:13;128:13; 132:20;152:10; 153:24;159:8;161:12; 168:25;171:5,25; 172:22;185:5;207:17	174:12 land (14) 12:22;16:14,24,25; 17:2,7,9,20,23;18:20; 69:13;149:4;190:9; 191:12 lands (1) 57:8 landscape (1) 111:19 lane (5) 61:14;204:21; 205:14,18;206:25 language (3) 12:2;96:23;107:8 large (5) 16:1;41:18;68:4; 115:12;140:23 largely (3) 94:2;114:11;145:4 larger (2) 143:24;197:22 largest (1) 127:9 Last (27) 0:5,20;7:22;10:11; 21:6,10,15,17;34:12; 36:18;56:13;63:10; 68:4,23;69:24;98:16;	learn (4) 37:6,9,19;59:12 learned (2) 59:19;166:24 learning (4) 36:9;95:8;179:1; 196:3 learnings (1) 53:1 lease (1) 17:1 least (14) 46:16;54:4;55:24; 56:6;59:5;68:13; 113:18;118:21; 132:11;152:7;160:19; 164:15;167:11; 198:21 leave (4) 113:4;116:7;149:2; 150:25 leavening (2) 158:16,21 leaving (1) 69:25 lecithin (1) 157:3 lecture (1) 195:8	121:13;170:7 leverage (2) 12:8;53:22 LEWIS (74) 14:16;15:11;16:12; 17:12;23:22,23;25:2; 28:14;29:18;36:15; 38:15;40:2;42:8; 44:24;46:15,25; 58:11;63:16,17,25; 64:3,7;71:15,16; 72:23;73:12;79:6,7; 80:8,15,17;81:18,24; 82:24,25;83:2;84:7,8, 12;87:5,6,12;88:11, 12,20;89:11,14; 92:19;94:10,12; 117:9;120:14;128:19; 131:21;132:4;141:16; 143:4;145:19;151:19; 154:10;181:7,8,25; 183:5,6,18;194:8,9, 15,17,20,24;206:9,10 lie (1) 71:6 lies (1) 60:16 life (4) 138:23;150:16,18;	56:17;60:24;61:7; 73:8;93:11;123:10; 146:18;185:15; 189:22;193:8 liner (1) 28:18 lines (1) 96:21 link (1) 158:2 linking (1) 159:2 Lipson (1) 62:21 liquids (1) 140:19 list (73) 21:16,18;31:24; 32:1,1,2,5,6;34:16; 45:8;50:7,8;52:19; 56:5;74:3,5;75:1,22; 77:16,19;78:8,17,20; 85:19;90:2;93:7;94:4; 96:11,12,18,25;97:18, 21;98:1,23;99:8,9; 100:16;105:1,5,8; 114:10,15;116:5; 118:9,22;119:1; 120:2;128:10;129:5,
51:16;66:20,20 knowledge (1) 165:4 known (5) 76:15;139:8; 141:18;175:8;176:9 knows (3) 61:21;155:14,18 kombu (9) 172:24;173:1,11; 174:3,8,9,11,14; 175:21 Korea (1) 174:17 kurilensis (1) 174:15 Kyla (32) 0:18;14:10,12; 15:23;23:11;35:25; 47:8;70:13;73:14; 75:8;78:14;84:18; 85:14;88:24;106:5, 18,21;108:3;113:5; 125:13;128:13; 132:20;152:10; 153:24;159:8;161:12; 168:25;171:5,25;	174:12 land (14) 12:22;16:14,24,25; 17:2,7,9,20,23;18:20; 69:13;149:4;190:9; 191:12 lands (1) 57:8 landscape (1) 111:19 lane (5) 61:14;204:21; 205:14,18;206:25 language (3) 12:2;96:23;107:8 large (5) 16:1;41:18;68:4; 115:12;140:23 largely (3) 94:2;114:11;145:4 larger (2) 143:24;197:22 largest (1) 127:9 Last (27) 0:5,20;7:22;10:11; 21:6,10,15,17;34:12; 36:18;56:13;63:10; 68:4,23;69:24;98:16; 103:25;104:22;	learn (4) 37:6,9,19;59:12 learned (2) 59:19;166:24 learning (4) 36:9;95:8;179:1; 196:3 learnings (1) 53:1 lease (1) 17:1 least (14) 46:16;54:4;55:24; 56:6;59:5;68:13; 113:18;118:21; 132:11;152:7;160:19; 164:15;167:11; 198:21 leave (4) 113:4;116:7;149:2; 150:25 leavening (2) 158:16,21 leaving (1) 69:25 lecithin (1) 157:3 lecture (1) 195:8 left (2)	121:13;170:7 $leverage (2)$ $12:8;53:22$ $LEWIS (74)$ $14:16;15:11;16:12;$ $17:12;23:22,23;25:2;$ $28:14;29:18;36:15;$ $38:15;40:2;42:8;$ $44:24;46:15,25;$ $58:11;63:16,17,25;$ $64:3,7;71:15,16;$ $72:23;73:12;79:6,7;$ $80:8,15,17;81:18,24;$ $82:24,25;83:2;84:7,8,$ $12;87:5,6,12;88:11,$ $12,20;89:11,14;$ $92:19;94:10,12;$ $117:9;120:14;128:19;$ $131:21;132:4;141:16;$ $143:4;145:19;151:19;$ $154:10;181:7,8,25;$ $183:5,6,18;194:8,9,$ $15,17,20,24;206:9,10$ $lie (1)$ $71:6$ $lies (1)$ $60:16$ $life (4)$ $138:23;150:16,18;$ $206:12$	56:17;60:24;61:7; 73:8;93:11;123:10; 146:18;185:15; 189:22;193:8 liner (1) 28:18 lines (1) 96:21 link (1) 158:2 linking (1) 159:2 Lipson (1) 62:21 liquids (1) 140:19 list (73) 21:16,18;31:24; 32:1,1,2,5,6;34:16; 45:8;50:7,8;52:19; 56:5;74:3,5;75:1,22; 77:16,19;78:8,17,20; 85:19;90:2;93:7;94:4; 96:11,12,18,25;97:18, 21;98:1,23;99:8,9; 100:16;105:1,5,8; 114:10,15;116:5; 118:9,22;119:1; 120:2;128:10;129:5, 18;130:10,14,16;
51:16;66:20,20 knowledge (1) 165:4 known (5) 76:15;139:8; 141:18;175:8;176:9 knows (3) 61:21;155:14,18 kombu (9) 172:24;173:1,11; 174:3,8,9,11,14; 175:21 Korea (1) 174:17 kurilensis (1) 174:15 Kyla (32) 0:18;14:10,12; 15:23;23:11;35:25; 47:8;70:13;73:14; 75:8;78:14;84:18; 85:14;88:24;106:5, 18,21;108:3;113:5; 125:13;128:13; 132:20;152:10; 153:24;159:8;161:12; 168:25;171:5,25; 172:22;185:5;207:17	174:12 land (14) 12:22;16:14,24,25; 17:2,7,9,20,23;18:20; 69:13;149:4;190:9; 191:12 lands (1) 57:8 landscape (1) 111:19 lane (5) 61:14;204:21; 205:14,18;206:25 language (3) 12:2;96:23;107:8 large (5) 16:1;41:18;68:4; 115:12;140:23 largely (3) 94:2;114:11;145:4 larger (2) 143:24;197:22 largest (1) 127:9 Last (27) 0:5,20;7:22;10:11; 21:6,10,15,17;34:12; 36:18;56:13;63:10; 68:4,23;69:24;98:16;	learn (4) 37:6,9,19;59:12 learned (2) 59:19;166:24 learning (4) 36:9;95:8;179:1; 196:3 learnings (1) 53:1 lease (1) 17:1 least (14) 46:16;54:4;55:24; 56:6;59:5;68:13; 113:18;118:21; 132:11;152:7;160:19; 164:15;167:11; 198:21 leave (4) 113:4;116:7;149:2; 150:25 leavening (2) 158:16,21 leaving (1) 69:25 lecithin (1) 157:3 lecture (1) 195:8	121:13;170:7 leverage (2) 12:8;53:22 LEWIS (74) 14:16;15:11;16:12; 17:12;23:22,23;25:2; 28:14;29:18;36:15; 38:15;40:2;42:8; 44:24;46:15,25; 58:11;63:16,17,25; 64:3,7;71:15,16; 72:23;73:12;79:6,7; 80:8,15,17;81:18,24; 82:24,25;83:2;84:7,8, 12;87:5,6,12;88:11, 12,20;89:11,14; 92:19;94:10,12; 117:9;120:14;128:19; 131:21;132:4;141:16; 143:4;145:19;151:19; 154:10;181:7,8,25; 183:5,6,18;194:8,9, 15,17,20,24;206:9,10 lie (1) 71:6 lies (1) 60:16 life (4) 138:23;150:16,18;	56:17;60:24;61:7; 73:8;93:11;123:10; 146:18;185:15; 189:22;193:8 liner (1) 28:18 lines (1) 96:21 link (1) 158:2 linking (1) 159:2 Lipson (1) 62:21 liquids (1) 140:19 list (73) 21:16,18;31:24; 32:1,1,2,5,6;34:16; 45:8;50:7,8;52:19; 56:5;74:3,5;75:1,22; 77:16,19;78:8,17,20; 85:19;90:2;93:7;94:4; 96:11,12,18,25;97:18, 21;98:1,23;99:8,9; 100:16;105:1,5,8; 114:10,15;116:5; 118:9,22;119:1; 120:2;128:10;129:5,

- Vol. 5 May 15, 2024

Spring 2024 Meeting		1		May 15, 2024
138:2,2;141:9,10;	49:8;104:5	53:21;54:9,23;55:4,	loved (2)	141:21;162:5;165:3;
142:17;150:12;151:8;	LLC (2)	10,12,25;59:19;	25:23;28:1	188:4;201:11;204:1
167:19,20;168:11;	57:23,24	65:22;69:7,13,16;	lovely (1)	malign (1)
172:7,15,17;184:14;	L-malic (6)	70:1;71:1,5;74:12;	116:9	179:20
197:9:204:15	125:11;128:17,18,	92:6;109:17;120:9;	low (2)	malting (1)
listed (39)	19;129:7;130:9	121:12;125:2;136:7;	27:12;170:7	133:25
74:13,18,19;76:1,3;	loaf (4)	143:23;152:4,17;	lower (6)	man (1)
78:11;98:24;100:7;	192:23,23,24;193:1	166:19;171:1,8;	11:19;57:15;190:2;	209:9
114:9;125:17;126:10;	local (3)	176:12;178:24;186:5;	192:17,21;193:2	manageable (1)
128:19;136:23;	20:10;198:22;200:8	192:11;196:6,14;	lowering (1)	11:19
137:19,22,24;139:4;	locally (1)	192.11,190.0,14, 197:21;209:10	192:20	managed (1)
140:13;141:17;	201:16	Looks (2)	lukewarm (1)	176:7
	located (1)	94:19;113:12	200:9	management (10)
143:10,16;156:8,10,	170:10	·	lumped (1)	9:23;13:2;49:17,19,
20,22;157:4;158:1,13,		loop (1) 52:17		
24,25;159:11;160:1,	location (1)		167:10	20;50:5;62:7;63:3;
15;162:18,19;167:9;	199:16	loops (1)	lunch (5)	71:6;176:4
170:21;171:9;175:6	lockstep (1)	52:15	0:10;89:6;125:9,12;	mandated (1)
listening (3)	104:1	lose (1)	132:24	197:16
29:1;68:2;156:4	Logan (30)	203:13	lunchtime (1)	manner (2)
listing (21)	24:11,15;44:1;66:3;	loss (7)	125:8	142:2;186:16
61:2;80:11;83:4;	67:3;79:20,22;81:5;	50:22,23;54:8,15;	luxury (2)	manufacture (9)
84:15;87:14;131:14;	82:12;83:20;86:18;	62:23;65:17,19	188:6;190:3	97:10;102:18;
136:25;137:1;141:5,	87:24;116:12;117:8;	lost (1)		104:10;138:24;162:3;
9;147:9,12;148:7,14;	136:14;138:3;157:12,	147:21	Μ	174:7,11,14;175:24
149:10;154:5,8;	17;158:8,10;180:22;	lot (92)		manufactured (2)
157:9;161:5;162:25;	181:9;182:20;189:7,	7:3,6;11:4,7;12:7;	ma'am (1)	76:9;169:8
172:21	23;190:23;192:20;	13:16;14:10,24;15:7,	70:15	Manufacturer (3)
listings (1)	196:16;208:19;209:6	13;19:11;20:3,25;	macro (3)	100:21;104:20;
96:23	logistics (1)	22:7;26:6,24;29:15;	7:18;71:2,11	115:19
lists (2)	69:17	30:19;32:2;33:22;	Madison (1)	manufacturers (4)
33:24;109:16	long (22)	34:18,23;35:12;36:3,	117:14	97:18;127:17;
literacy (1)	7:23;13:18;17:1;	7,21;38:16;41:7;42:2,	magic (1)	128:2;148:4
64:12	32:16;66:11,16;	2;43:3;44:11;47:11,	19:5	manufacturing (15)
little (49)	69:11;74:3,4;104:15;	19,20;50:25;51:16,	magnesite (1)	76:6;91:4;103:10;
8:20;13:4;14:19;	106:10;109:8,15,15;	20;52:14;53:18;	76:16	104:12;107:9;126:9;
15:4,17,20;16:13;	110:13;154:23;	57:15,25;59:4;60:1,2,	magnesium (36)	128:6;135:23;137:10;
26:13,18;28:16;29:7;	155:16;166:23;173:4;	2;61:16;65:12;66:5,6;	75:8,8,10,10,21,21,	139:23;144:1;157:22;
30:23;31:9;32:13;	197:9,25;199:11	70:18;71:20;72:11,	25;76:6,8,8,9,10,10,	158:22;160:3;168:4
42:25;44:16;52:12;	longer (2)	12;74:7;78:18;88:25;	10,13,14,17,19,23;	Many (38)
53:13;56:17,23;	99:13;184:23	95:8;108:23;117:1,	77:3,4,9,13;78:7,7,25;	8:12;11:17;20:8;
61:14;64:4;70:23;	longstanding (1)	21;119:13;121:17,23;	79:1;80:11,13;81:21,	27:12;30:9;40:6;
75:25;99:21;107:18,	106:8	122:3;123:18;128:20;	23;83:5,6;133:14,18,	41:14;58:12;63:11;
21;113:12;121:9;	look (39)	129:20;132:13;	19	78:5,17;90:16;93:25;
123:12;124:17;	10:23;13:6;15:23;	134:14;142:23;	magnitude (1)	100:20;101:14,17;
125:23;127:14;	21:19,19;22:25;23:4;	149:13,16;150:15;	28:19	102:3;103:5;104:18;
130:11;132:17;138:6;	24:22;30:1;35:21;	161:2,17;166:2;	main (4)	106:14;126:4;137:6;
139:21;142:11;	39:10;41:10,11;44:9,	177:16;190:13;192:4;	10:12;77:12;	141:18;167:23;
145:10;155:6,22;	13;47:10;55:23;	195:6,9,9,23;196:16;	151:25;170:5	185:18;187:9,9,10;
162:10;172:15;	57:15;61:24;62:4;	198:19;200:3;202:16,	maintain (1)	188:1;193:15;195:10;
176:20;186:2;193:17;	67:25;69:14;71:11;	19;203:5,15;206:18	158:17	197:10,10,11,11;
198:18;200:20;	72:13;73:3;74:1;	Lots (6)	maintaining (2)	199:22;204:15,17
204:14	78:19;84:14;95:14;	11:3;53:3;56:13;	111:20;170:4	map (1)
live (1)	120:15;124:6;132:21;	57:22;109:18;149:12	major (2)	29:5
130:16	160:17;179:9;183:22;	loud (2)	54:8;129:2	marine (10)
lively (1)	186:18;188:12;	8:5;200:4	majority (3)	137:4;144:21;
114:4	199:18;205:19	love (24)	105:4,6;180:16	145:3,12;165:10;
lives (1)	looked (3)	8:6,22;14:6;26:24;	makes (6)	173:21;174:10;
114:18	26:16;108:25;	37:23;39:23;43:10;	11:25;23:9;142:25;	175:13;176:5,12
livestock (8)	168:11	48:17;51:18;86:3;	162:14;178:12;	Mark (4)
110:9;133:21;	looking (47)	112:19,19;117:16;	203:24	62:21;133:6,10;
110:9;133:21; 134:6;142:25;162:2;	looking (47) 12:25;21:17;25:14,		203:24 making (12)	208:9
	looking (47)	112:19,19;117:16;		
134:6;142:25;162:2;	looking (47) 12:25;21:17;25:14,	112:19,19;117:16; 122:15;158:8;186:11,	making (12)	208:9

- Vol. 5 May 15, 2024

Spring 2024 Meeting		[1	May 15, 2024
17:8;20:6;22:4;40:17;	maximize (2)	mechanism (1)	21,23,24;120:6,18,22;	164:13;174:5,8;
41:17,19;44:9;68:6;	10:3;16:6	206:3	121:21,22;122:15;	175:22;176:10,11;
69:8,20,25;70:8;	may (26)	media (3)	123:13,16;124:5,23;	177:17,20,21;184:9;
85:25;97:13;120:3;	28:21;30:24;31:23,	101:7;102:21;	128:13;131:8,11;	191:9
124:9,21;144:24;	23;34:4;42:8;77:8;	140:20	132:1,3,9;133:7,15;	mentions (1)
146:17;188:24;	90:10;101:5;102:9,	mediate (1)	135:8;136:12,16,18,	15:5
189:11;194:1,12;	11;122:19;129:25;	54:18	19,20,21;138:3,5,6,	mentor-mentee (1)
196:23;208:8	134:22;143:11;145:1;	meditated (1)	10;140:1,6,7,8,9,12;	71:24
marketing (3)	147:20;153:8;167:25;	166:13	141:12;142:18,21;	mentorship (1)
17:21;28:2;197:23	168:2;177:17,18;	medium (1)	143:5,8;145:16;	19:9
marketplace (6)	178:25;200:14;208:7,	100:22	146:1,3,8,10,11,23,	mess (1)
12:14;29:16;71:21;	9	meet (3)	24;147:3;151:25;	157:1
78:19;123:9;196:12	maybe (51)	12:9;115:1;160:13	152:16,25;153:3,13,	message (3)
markets (7)	0:12;15:5;17:8;	meeting (33)	20;154:9,18;155:12,	58:20;73:3;200:3
15:10;17:15;37:4;	38:3,4;43:15;54:22;	9:13;12:19;50:4;	21;156:3;157:15,17,	messed (1)
71:7,18;174:18;187:7	58:21,23;60:7;65:23,	75:1;100:9;103:18,	18;158:7,12;159:5;	84:16
market's (1)	24;70:5;72:16;78:16;	18;133:21;148:23;	161:11,15;163:19,20;	messiness (1)
173:25	106:24;111:24;112:3,	160:9;163:9;165:20;	164:2,4,6,7,10,11,12,	155:4
marshmallows (1)	4;113:19;116:23;	184:22;186:3;188:18;	15,18,20,23,24;165:1,	messy (1)
167:18	118:11;123:10,11,22;	189:5,11;196:21;	9,12,13,15,16,21;	71:25
mascots (1)	125:10;132:10;140:3;	198:12;200:13;202:7,	166:5,18,21,22;167:8;	met (2)
133:10	142:11,25;145:9,17;	10;204:3,24,24;205:4,	168:21;171:5,7,14,15,	208:2,3
masses (1)	151:2;154:12;155:10,	5,6,24;207:25;	18,20,21,25;172:11;	metaphor (5)
194:4	19;165:13;168:9,15;	208:19;209:21,22	173:2;176:17;177:4,	28:17;29:1,4,6,11
massive (2)	170:24;172:13;190:7,	meetings (7)	5,7,23;178:3,4,17,19,	method (4)
106:1,2	19;191:7;193:1;	172:2;188:2;	20;179:3,24;180:2,5,	97:24;98:13;99:8;
matched (1)	195:13;196:16;	201:18;204:10,12;	9,17,19,23,25;181:2,	145:6
51:11	200:20,20;203:19;	205:22;208:2	4,6,10,14,17,19,21,23;	methodologies (2)
matches (1)	204:4	melanogenum (1)	182:17,21,23,25;	31:15;45:15
153:17	$\frac{MCs}{7} (1)$	139:4	183:2,4,8,10,12,14,	methods (32)
material (34)	76:8	Meloxicam (3)	16;185:5,10,14,16,24;	31:10,12;47:14;
61:11;74:18;75:3,	meal (5)	184:17;186:9,13	186:23;187:2,5,6;	85:8;91:4,18;94:23;
25;76:3;77:15,22;	37:15;162:14,14;	MEMBER (342) 9:3;14:23;15:22;	188:3,14;189:4,24;	97:9,12,16;98:1,9,9,
78:20;95:3;107:9,13; 108:1;111:5;112:14;	163:23,25 mean (19)	16:22;19:19;20:16;	190:23;191:2;192:19; 193:20;194:13,16,19,	18,24;99:15;100:5,6, 7,10,15;101:1,2,3,22;
113:4;114:14;115:9,	15:12;21:20;29:2;	21:2;22:1;23:19,21,	22;195:1,4,16,18;	107:2;108:10;142:24;
17,19,21;119:20;	36:10;38:16;50:12;	25;24:2,4,6,8,10,12,	197:5,7,20;198:11;	149:7;159:21;176:3;
126:13;128:22;129:9;	66:7,8;115:9,19;	19,23,25;34:10;36:2;	199:4,7,11,21;200:7,	184:20
130:5;131:15;133:21;	124:12,15;125:3;	38:14;39:6,14,25;	17;201:10;202:1,14;	metrics (2)
134:15,23;135:1;	155:12;163:5;195:12;	40:3,24;43:3;44:4,7;	203:18,21;205:16;	50:23;51:4
158:5;167:2;170:22;	205:7,13,21	56:16;57:21;58:10;	206:20;208:21;209:7,	mic (3)
186:15	meaning (2)	59:23,25;61:5;62:12,	12,18	0:5;8:24;119:21
materials (45)	67:9;96:22	15;63:23;64:1,6,9;	members (10)	Michelle (6)
74:22;75:6,16;	means (7)	66:4;67:19;69:4;72:9,	8:12;14:1;68:12,21;	62:16;185:1;
77:16;78:11,17;89:5,	29:13;61:25;	22;73:25;78:14;79:5,	74:6;174:12;179:1;	205:20,21;206:8;
8;92:3;93:11;94:25;	114:11,11,12;134:4;	9,11,13,15,17,19,21,	189:18;199:25;	207:24
97:16;109:14,25;	151:16	23;80:2,4,6,19,21,23,	208:20	micro (1)
111:20;112:18;120:7,	meant (2)	25;81:2,4,6,10,12,14,	membrane (2)	185:15
9;122:18;127:9;	133:16;190:12	16;82:1,3,5,7,9,11,13,	143:19;169:9	microbial (1)
130:14;134:19;	meantime (1)	17,19,21,23;83:11,13,	memory (1)	138:24
135:10;142:12;	156:4	15,17,19,21,25;84:2,	178:18	microorganism (10)
144:21;151:11;155:3,	meat (11)	4,6,10,18,23;85:23;	mental (2)	97:12;100:18;
7;156:5,24;165:10,	77:1;122:5;126:8;	86:11,13,15,17,19,23,	203:4,9	101:6,6,8,9;102:15;
19;170:5;172:14;	143:14,18,21,24;	25;87:2,4,8,10,19,21,	mention (7)	105:1;129:14;138:25
175:12,13,15,20;	144:7;146:15;148:2;	23,25;88:4,6,8,10,14,	13:15;39:4;50:9;	microorganisms (17)
176:13;178:7,14;	169:6	16,18,23;92:4;93:19;	109:13;138:1;172:12;	94:24;95:6;96:3,7,
184:19;185:25,25; 186:0	meats (5)	94:11,13,21;95:7;	175:24	18;97:19;98:12,19,
186:9 matrix (1)	114:12,12;115:2;	105:13,16,18,23; 106:19;108:2;109:11;	mentioned (26) 8:13;14:17;23:1;	23;99:24;100:2,17, 25;101:11;102:2;
45:20	121:5;158:20 mechanical (2)	110:6;111:8,10;	41:3;65:17;66:13;	104:7,25
matters (3)	140:18;174:21	113:5,21,24;114:1,6;	67:11;78:1;98:12;	microphone (1)
56:19;132:14;	mechanically (1)	116:10,14;117:6;	99:14;129:5;134:16;	29:10
202:15	169:10	118:17;119:9,11,19,	139:6;162:20,24;	middle (1)
		,		(-)

Burke Court Reporting & Transcription (973) 692-0660

(20) marketing - middle

- Vol. 5 May 15, 2024

Spring 2024 Wreeting				May 13, 2024
89:5	8:19;125:11;	61:14,15;64:12;	89:17;90:20;92:20;	
midst (1)	193:21;196:20	66:25;67:6,14;71:9;	112:5,6;117:14;	N
60:13				Ν
	miso (1)	74:12,22;91:3,6,17;	120:3;149:17;151:15;	
Midwest (3)	100:20	99:21;107:18,22;	161:5;167:2;192:13	name (9)
19:21,24,25	miss (1)	109:16;124:7;125:21;	moved (3)	11:22;17:14;
might (29)	70:6	127:2;130:11;132:11;	151:7;165:18;	140:25;153:18;
12:9;40:25;43:14;	missed (2)	134:17;137:23;	201:15	173:12;174:3;175:23;
46:11;47:4;57:7,8;	44:24;184:24	142:11;143:20,22;	movement (1)	177:25;196:9
59:7;89:8;106:25;	missing (2)	145:10;146:4;147:6;	176:24	named (1)
112:2;114:4,24;	189:3;191:16	149:1;152:8;154:13;	movements (1)	16:1
123:24;130:14;	misunderstand (1)	155:22;156:6,7;	185:15	namely (1)
153:21;171:16;	77:21	167:5;168:1,23;	moving (21)	160:11
190:14,16,18;197:20,	mitigate (5)	171:7;172:23;173:25;	29:4;33:7;67:22;	names (2)
24;198:17;202:23;	52:2;58:8;59:6;	186:2,16;187:22,24,	73:20;84:19;89:3;	11:25;97:19
203:12;205:12,13,17,	192:9,10	24;189:25;190:3;	93:16;111:8,9,10;	naming (1)
17	mitigation (2)	191:7,7,18;192:22;	114:3;135:6,25;	18:12
mild (1)	49:13;103:11	193:2,7,9,10;196:4,4;	138:8;143:6;163:10,	NANDWANI (25)
92:24	mix (1)	197:14;199:18,24;	12;165:20;166:24;	
miles (1)	8:20	200:12;202:1,10,24	185:1,4	19:19;23:19;80:6;
193:8	mixed (1)	morning (4)	MROs (1)	81:14;82:21;84:4;
milieu (1)	90:7	0:19;10:7;13:24;	34:24	87:2;88:8;138:10;
154:15	mode (1)	165:10	much (44)	140:6,8;161:15;
milk (3)	26:17	morphed (1)	9:3,16,22;22:18;	164:6,10,12;165:1,12,
149:11;157:20,21	model (1)	193:21	35:23;38:19;39:10;	15;166:18,21;173:2;
mill (2)	147:15	morphs (1)	40:10;43:18;44:14;	177:4,7;181:4;183:2
193:7,9	modified (1)	196:22	49:10;54:20;62:2,5;	nanoparticles (2)
milled (1)	107:13	most (25)	69:5;74:6;88:23;	77:23,25
169:11	modify (1)	10:19;14:5;20:4;	92:21;104:1;105:13;	Nate (87)
	17:19			7:1;8:13;14:15;
million (2)		31:24;32:3,4,12;	108:4;117:11,19;	16:11,22;23:22;
35:21;114:23	moisture (2)	40:16,17,23;41:1;	124:14,19;129:6;	24:24;28:10;36:2,24;
million-dollar (1)	143:19;169:4	43:7;45:9;70:6;95:19;	132:14;136:13;	38:8,9,10,12,15;40:2,
9:6	mold (1)	98:9;102:25;108:4;	144:25;156:7;171:25;	24;41:13;44:5;45:7;
mind (8)	139:1	129:6;134:10;137:11;	172:2;173:4,10,18;	56:15;58:11;61:4;
22:6;35:8;61:23;	moment (4)	149:9;160:18;174:9;	174:24;188:8;195:20;	63:16;67:15;68:16;
63:18;64:8;95:11;	21:3;143:3;174:8;	178:6	198:17;199:8;201:16;	69:2;71:15;72:20,23;
123:19;150:24	191:1	mostly (5)	202:1;204:18;208:14	73:12;79:2,6;80:3,15,
Mindee (15)	momentum (1)	127:12;135:22;	multiperil (2)	16;81:11,24;82:18,
24:9;79:18;81:3;	0:20	136:1;144:4;150:9	53:11,14	24;83:9;84:1,7;86:24;
82:10;83:18;86:16;	Momming (1)	motion (36)	multiple (4)	87:5;88:5,11;89:11;
87:22;92:3;120:20;	209:16	23:14,17;25:3;	45:19;113:14;	92:1;93:9;94:5;95:2;
121:21;122:15;	Monday (1)	78:25;80:9,11,11,12;	158:14;159:19	116:12;117:8;118:15,
180:18;182:16;201:9;	41:4	81:19,22,23;83:3,4,5,	multiresidue (4)	15,19;119:9;120:13;
203:3	money (3)	6,8,9;84:13;86:6,7;	31:17;33:6;46:18;	124:4;128:17;131:8;
mined (3)	11:9;47:3;193:25	87:13,14,15,16;88:21;	47:1	141:14;142:18,21;
134:20;136:3,4	monitoring (1)	115:13;151:21;154:3;	multiscreen (3)	145:5,18;146:1;
minerals (12)	48:9	179:23,25;180:13;	45:10,11,17	151:18;154:9;180:13;
137:1,24;147:2,5,	Montana (1)	182:1,3,13,15;183:19	muscle (2)	181:1,7;182:15,24;
10,13;148:6;149:6,	37:1	motioned (6)	40:6;144:3	183:5;187:4;188:16;
19;150:2;156:14,16	months (3)	79:2;80:14;81:24;	must (5)	190:19;191:3;192:18;
mines (1)	19:24;20:14;199:15	86:8;87:17;182:15	44:24;97:5;102:9;	194:8;196:2;199:1,6;
134:5	more (117)	motions (1)	104:2;199:25	203:17;206:9
minimal (2)	8:5,14;9:23;10:5,7;	84:15	mutagenesis (1)	Nate's (2)
101:13;103:9	11:19,23;12:3;13:21,	motivated (1)	184:20	35:17;108:12
minimize (1)	25;14:19;16:13;26:6,	43:14	mutiny (2)	nation (3)
103:12	17,19;27:15;28:11;	motivation (1)	122:10,14	36:19,20;37:24
mining (6)	30:4,19,20,23;31:9,	37:8	myself (9)	national (25)
77:12,14;127:9;	11;32:9,13;39:8;	mouth (1)	37:1;79:3;80:14;	75:22;77:16,19;
134:13,15,18	40:10;41:1,4,7;42:6,	34:15	81:25;83:8;86:9;	78:8;85:19;90:2;93:7;
minor (1)	25;44:18,22;45:20;	move (24)	118:16;184:15;	
65:3	46:2,3;47:21;48:23;	0:9;12:18;20:23;	201:25	96:5,11,12,13,18,25;
minute (3)	52:6,12;53:3;54:3,13;	23:14;25:9;30:17;	mysterious (1)	100:15;101:4;105:1,
75:3;77:19;184:13	55:15,23,24;56:6,23;	31:17;58:2;62:10;	155:13	5,8;130:16;142:17;
minutes (4)	58:16,16;59:15;	67:16;78:23;86:5;	100.10	167:20;168:10;176:2;
	50.10,10,57.15,	07.10,70.23,00.3,		208:2,3

opring 2024 Meeting			
nationalist (2)	103:22;106:5	nine (2)	nontoxic (1)
142:3,3	needing (2)	110:21;145:16	104:3
native (1)	12:4;142:11	nitrate (5)	NOP (15)
167:21	needle (2)	76:11;115:7;	10:18;16:2;20:
NATR (1)	59:10;192:13	121:13;123:20;	21;30:6;31:25;
95:25	needs (9)	121:13,123:20, 124:24	48:6;60:19;98:
natural (8)	26:15;52:18,23;	nitrates (12)	154:24;163:10
121:3;122:8;	65:9;71:9;89:11;	115:2,3,6,7;116:15,	165:20;173:6;2
123:13,14;126:14;	119:12;160:13;	17,18,19,23;118:11;	NOP's (3)
131:15;144:2;160:24	186:16	121:18;124:17	15:17;42:17;10
naturally (2)	negative (3)	nitrite (1)	nor (1)
76:15;159:16	103:10;121:4;	124:24	150:4
nature (1)	105.10,121.4, 127:11	nitrites (2)	normal (2)
188:8	neither (1)	121:6;125:1	204:25;205:3
navigating (1)	150:4	NLP's (2)	normally (2)
29:5	network (2)	7:14,15	73:6;122:6
nearing (2)	9:9;61:25	noble (1)	Northwest (1)
125:8;179:7	neutralization (1)	37:8	175:2
nearly (2)	157:23	nobody (1)	NOSB (23)
		84:15	9:13;37:23;49:
62:1;137:9	new (30)		
Nebraska (2)	0:12;7:21;19:13;	nobody's (1) 197:12	90:5;96:16,16;
18:17;49:7 necessarily (7)	31:1,2;33:18,19,19; 35:11;52:15,21;		9,21;133:6,10;
		nod (1)	136:23;139:10
14:21;26:12;35:19;	53:12;55:4;59:12;	60:3	23;156:13;163
39:2;42:7;118:2;	68:11;74:25;77:21; 78:20:00:1:05:2:	nodosum (1)	176:10;177:23
186:7	78:20;90:1;95:2;	174:20	183:20;209:16
necessary (10)	128:14;150:17;158:4;	nominal (1) 54:5	NOSB's (1)
23:2;27:14;48:19;	159:3;170:14;172:3;		98:6
66:14;71:12;89:22;	174:18;175:1;179:1;	nominations (1)	notable (1)
99:17;101:13;103:21;	208:20	208:11	50:9
119:8	newer (1)	nonagricultural (3)	note (9)
necessitate (1)	111:16	79:2;81:24;138:14	11:5;13:21;15:
168:10	news (2)	Nonancillary (1)	78:15;95:16;10
neck (1)	74:2;133:9	139:7	142:1;163:12;1
36:25 need (92)	next (45)	nonanswers (1) 168:17	noted (8) 9:19;75:18;103
	26:13,16;27:25;	nonchlorine (1)	· · · ·
8:6,9;10:18;11:5;	33:21;35:5;45:19; 47:7;48:24;49:3;	144:18	127:10;134:14 169:12;197:2
12:2,12,13,17,19; 13:4;16:18;22:19;	50:18;52:9;53:4;	None (2)	notes (1)
23:4;26:10;27:10,15;	55:16,17;56:2;68:23;	162:22;175:8	166:1
		nonexcluded (1)	
28:4;30:9,23;31:9,13, 18;33:3,16;35:10;	74:5;84:19;89:3; 92:17;94:23;108:24;	98:13	notice (8) 10:6;109:13;
38:22;39:2;42:1;	109:24;111:24;	nonlocal (1)	198:20,21;199
47:10,12,16,25;48:1,	113:17;116:1,6;	200:8	205:24;206:2,2
18;49:9;50:16,23;	133:19;136:14;140:4,	nonorganic (9)	noticed (3)
51:4;52:1,6,15,17,18;	9;141:14;147:3;	85:10;102:11;	60:5;173:6;199
53:5,18;54:22;59:12;	149:21,22;152:7;	114:9;131:15;161:16;	noting (2)
60:20,23;62:3;63:5;	149.21,22,132.7, 157:12;161:13;	167:9;170:7;171:10;	61:20;165:22
65:11,15;71:2,4;	168:25;184:15;189:4;	173:19	notion (2)
72:24;73:5,10;110:8;	203:7;204:24;205:24;	nonpathogenic (2)	105:2;200:8
111:17;113:13;	205.7,204.24,205.24, 206:8	104:3,4	NPP (2)
116:16,17;117:23;	NGOs (2)	nonsynthetic (22)	62:1;63:17
118:21;130:11;131:3;	110:21;115:10	99:24,25;100:1;	NRCS (9)
135:11;146:19;	nice (7)	102:7;104:2;127:13,	11:7,12;13:8;1
153:16,16;155:19;	50:11,12,13;	19,25;128:8,20;	20:7;58:13;59:
163:7;172:20;175:17,	106:17;176:17;202:9;	19,25,128.8,20, 129:13,25;130:18;	61:19;192:12
20;182:6;189:20;	204:2	131:15;132:15;134:3;	NRCS's (1)
191:22;192:10;193:2,	nicely (1)	131.13,132.13,134.3, 135:20;137:10;	18:20
2,5;195:21;196:9,9,	85:9	138:14;145:7;160:12;	nuance (2)
10,11;204:25;206:7,	niger (1)	168:2	12:17;149:1
10,11,204.25,200.7, 12,13	91:10	nonsynthetics (5)	nuanced (1)
needed (5)	night (1)	125:17;126:10;	59:18
31:1;47:18;57:5;	36:18	128:10;129:6;172:8	nuances (1)
51.1,77.10,57.5,	50.10	120.10,127.0,172.0	numers (1)

number (17) 16:1,24;17:22;):13, 42:12,22;56:20,23; ;33:23; 58:10,16,25;59:22; 3:5; 61:18;95:24;141:9, 0; 10;146:5;148:13 207:24 numbers (8) 22:13;47:11;85:14, 67:3 22;86:2;97:22; 102:24;147:10 nut (1) 140:25 nutrient (10) 126:6;133:23; 135:2;147:1,4,9; 148:6;149:8;156:14, 16 nutrients (8)):10; 147:16,21;148:1, ;98:1,3, 16;149:10,18;151:6; 155:1 0;148:6, nutrition (2) 3:4,9; 15:6;147:17 3; nutritional (4) 6 102:16;141:20; 147:11,22 nuts (1) 159:17 0 :4: 00:11; observations (2) 167:22 32:15;198:13 observe (1))3:20; 32:11 4;135:1; obtained (1) 162:12 obtaining (1) 127:17 obvious (1) 62:4 9:19; obviously (2) 190:5;205:1 ,22 occur (1) 9:16 159:16 occurred (2) 142:22;154:16 occurring (1) 76:15 ocean (7) 28:18;172:23; 174:6;176:25;177:12, 18:6; 12,13 9:14; October (1) 174:23 odd (3) 132:17;156:8; 172:15 odors (1) 144:23

65:22

7:2;25:11;35:22;

off (21)

Spring 2024 Meeting				111uy 10, 2024
40.6.50.9.67.10.75.5.	50:8,9,10,21;52:19;	55.16.56.14.65.11.	25.17.2 6 16 24.19.2	17.7.10.11.20.10.
49:6;50:8;67:19;75:5;		55:16;56:14;65:11;	25;17:3,6,16,24;18:2;	17:7;19:11;20:10;
89:10;99:18;101:17;	55:15,15,22;57:11,23;	71:13;91:23;134:5;	19:6;21:4,18,19,21;	27:21;40:20;65:13;
106:6;118:19;119:1,	58:4,10,24;61:22;	177:12,12;206:1,1,4	22:4;23:15;25:17;	112:16;174:1
5,21;135:14;168:13,	62:25;67:4,6,7,10;	opening (3)	26:3;28:3;29:3,22;	organized (2)
16;179:12;186:24;	71:1,16,21;77:8;80:8;	9:19;55:7;207:7	32:3;33:11;34:17,23;	40:19;176:7
205:22	81:18;83:2,2;84:12;	operate (2)	37:17;40:5;43:15;	oriented (1)
offer (3)	87:12;88:20;93:10,	111:19;189:2	44:15;49:11;50:7,10,	188:8
28:25;29:9;55:23	11;94:6,6;95:8;97:13;	operation (3)	23;51:4,7,13,14,15,	origin (3)
offering (2)	98:17;103:25;108:3;	32:11;57:8,23	19,25;52:7;53:19,23;	76:24,25;140:23
38:3;187:17	109:15;110:23;	operations (12)	54:13,21,25;55:19,24;	original (6)
offers (1)	112:21;114:4,7;	13:7;21:15;27:13,	56:10,24;58:4;59:4,	62:22;98:7;148:14;
98:19	115:19;118:20;	13;32:22;57:19;	11,15,20;61:21;62:8,	156:13,15;166:12
office (1)	121:10,25;122:8,10;	134:25;141:9,10;	23;63:4,13,13;64:1,4,	originally (3)
209:19	125:5,6;126:5;127:9;	168:4,7;169:24	12,17,18,21,22;65:4,	131:21;136:23;
offices (2)	128:5,14;131:17,18;	opportunities (14)	10,18;66:7,14;68:18,	148:5
11:12;201:17	132:20;139:10,18,19;	8:22;9:1,23;10:13,	24;69:15;72:5,12;	OSB (1)
official (1)	140:3;146:25;147:8;	19;12:20;22:5;61:9,	73:4;74:19,21;75:24;	18:25
205:9	150:13;154:22;157:6,	18;69:21;72:14;	76:5;77:1;78:5,19;	others (5)
officially (2)	8,11;158:13;159:6;	78:19;143:24;187:10	85:6,11;89:22;93:3,4;	19:13;59:7;70:17;
208:18;209:20	161:3,6,8;164:16;	opportunity (19)	96:5,13;97:2;98:14;	115:18;158:1
offsetting (1)	167:5;169:3;170:4,	9:14;19:5;62:6,11;	99:6,11;100:18;	otherwise (4)
10:14	20;171:3,4,12;	70:3,6;71:8;72:25;	102:3,8,9,11;103:20,	12:20;96:22;98:20;
OFPA (1)	173:11;174:9;175:25;	85:25;89:18;118:22;	22;106:8,11;111:21;	153:6
7:17	176:22;177:20,22,23;	161:7;189:13;195:16;	112:12;114:12,13,25;	OTI (2)
often (3)	181:25;183:18;184:1,	198:16,22;199:14;	112.12,114.12,13,23, 115:16,17;117:11,11,	15:14;192:15
43:22;103:8;170:5		200:19;201:1	21;118:1,7,9,10;	ourselves (3)
	4,5,17,23;187:11;			
OID (2)	192:4;194:10;195:11;	opposed (2)	119:16,17,20,23;	46:14;146:19;
170:16,22	196:22;198:13,15;	78:6;169:22	120:1,10,15,16;121:1,	153:12
oil (26)	202:20;203:1;204:6,	opposition (2)	10,19,25;122:5,13,22;	out (80)
159:12,17,19;	8;205:23;206:22;	127:22;160:20	123:2,7,7,11,14;	8:8;11:16;12:23;
161:13,14,15,19;	209:1	optimistic (1)	124:7,14,16,18,21;	15:2,14;17:15;20:22;
162:2,5,8,10,16,18,	one-broad (1)	142:25	128:24;129:19;	27:15;31:9,11;37:4;
25;163:2,5,15,17,21,	65:21	optimize (1)	131:14;133:8;134:11,	42:18;43:14,21;
24;164:9,21,22;165:3,	ones (6)	49:19	12;136:10;137:11;	44:21,22;45:16;
5;176:11	52:14;93:10;94:20;	optimizing (1)	139:18,22,23;140:5;	47:13,14;54:2;57:16;
oils (1)	96:9;108:3;161:8	8:15	142:14;143:12,24;	58:20;59:15,17,21;
137:8	one's (1)	option (4)	144:19,19;145:8,9,22;	62:3;67:22;68:5,10;
old (1)	155:9	123:21,23;139:22;	146:8,16,17;148:8;	71:3,9;73:11;74:23;
141:3	on-farm (2)	140:5	156:20;159:14;	85:9,16,25;94:15;
older (1)	13:10;69:1	optional (2)	160:14;161:19;	102:22;106:13,16;
172:3	onion (1)	156:18:157:3	162:19;163:12,13,15;	107:17;112:4;113:11,
	74:15	options (2)	168:9,12;169:18,19;	19;114:18,21;116:11;
Oliver's (2)				
133:5,11	online (2)	149:25;150:24	170:5,16;171:24;	118:23;119:2;121:7,
omega-3 (1)	63:19;207:20	oral (3)	186:3,6;187:7;188:5;	16;132:13;146:4;
161:20	only (30)	8:1;52:13;53:18	190:2;191:17;196:4;	147:15;149:20;150:4,
omission (1)	7:23;20:5;38:15;	orange (13)	197:22;201:7,14,19;	7,17,23;155:5;156:4;
32:4	60:19;61:23,25;	168:25;169:1,2,3,3,	207:6;208:12,13,14	157:6;161:7;163:20;
omitted (1)	63:13;65:10,10;76:5,	7,8,9,14,18,19;	organically (2)	172:4;178:14;179:10;
154:23	23;77:3;80:13;83:7;	170:17,19	139:16;171:22	189:19;190:3,8;
omnibus (1)	104:6;134:4;135:20;	oranges (1)	organics (7)	193:5,9;195:23;
35:20	140:14,15;142:5;	169:14	8:22;22:21;54:16;	197:2;198:5;199:17;
OMRI (2)	143:11;149:20;	ORDER (12)	59:16;158:15;186:11;	202:2,16;208:9;209:4
94:6,15	158:15,15,21;163:6;	0:4;8:20;14:22;	191:6	outcome (4)
once (6)	164:16,19;200:25;	48:19;75:2;89:8;	organism (3)	51:25,25;59:13;
70:4,5;118:7;	206:3	147:4;192:21;193:18;	102:20;107:10,11	89:1
146:14;172:1;190:11	onto (2)	204:25;205:3;209:8	organisms (3)	outcomes (1)
One (134)	35:19;41:9	ore (3)	100:4,6;104:5	16:6
8:5;13:8;15:4;		125:22;126:21,22		outlet (1)
	ooh (1)		organization (7)	
16:24;18:3;21:8,10,	203:11	organic (220)	8:5;148:10;156:12;	192:1
14;22:7;25:2,11;28:1,	opaque (2)	7:16;8:7,23;9:1,2,6,	179:22;180:6,15;	outlined (1)
24;29:7;30:14;35:4,8;	42:25;43:4	9,10,22,24;10:2,4,5,	181:13	149:24
37:14;39:4;42:15;	open (14)	13,14,16,25;13:11,16,	organizations (12)	outreach (2)
45:25;48:24;49:4;	28:13;35:24;47:16;	20;15:7,10,24;16:18,	9:14;11:23,24;12:5;	11:12;20:6
		1	1	1

- Vol. 5 May 15, 2024

outs (1) pace (1)51:16 35:18 Pacific (5) outside (6) 13:13;14:2;15:17; 27:16:113:2:136:6 175:1,21 outstanding (1) package (1) 144:9 149:22 over (34) packed (1) 0:14;7:25;8:24; 74:2 14:6,10;21:6;26:22, packet (2) 22;28:10;32:5;35:25; 75:2;89:8 packets (1) 38:9:39:2:43:22; 49:22;53:13;56:13; 74:24 60:24;69:2,18,18; page (3) 73:14,21;75:8;95:4; 114:14;117:4;125:13; paid (1) 128:17;147:17; 188:7 148:13;189:21;191:5, pain (2) 61:10;186:16 5 overall (3) pain-free (1) 11:3:57:15:135:24 47:17 Palm (1) overcome (3) 55:21;144:24; 146:2 169:18 Palm's (1) overfishing (1) 36:25 pandemic (1) 163:16 overhead (2) 205:2 panning (1) 190:9;191:11 overlap (1) 38:12 188:22 paper (1) overloaded (1) 42:11 90:16 paragraph (2) overly (1) 98:16:163:3 parallel (9) 194:18 overseeing (1) 16:3 208:1.5 oversees (1) parking (1) 39:22 oversight (5) 34:18 25:12,15;34:24; 41:22,22 182:12 oversupplementation (2) part (40) 157:5,7 overview (7) 14:9;23:2;25:16; 36:3;92:1;97:14;99:1 overwhelming (2) 36:5;168:18 overwhelmingly (1) 103:18 own (10) 28:16;40:9,14; 41:15;43:1;46:9;74:1; 191:10,23;203:9 oxidation (2) 208:15 143:18;156:25 partial (1) 37:1 Р partially (2) 43:5;144:5 P&L (1) participants (2) 192:13 20:17;22:11 **PAA (1)** participating (2) 113.762:7,8

participation (4) 7:20:8:2:12:16: 62:6 172:24:173:1.11: particular (21) 0:22;11:6;28:17; 32:20;39:20;71:2; 90:20;91:20,22;92:7, 25:104:23:111:4: 117:24;121:6;132:20; 135:19:141:6:157:7; 167:11;195:23 particularly (6) 120:10;130:3,12; 157:10;176:5;205:22 41:10;107:24,24 partnering (2) 20:5;31:14 partners (6) 20:3,4;26:19;90:1; 103:3;128:25 partners' (1) 93:3 partnership (3) 7:16;8:12;207:6 Partnerships (1) 9:9 parts (3) 35:21;146:13; 162:12 party (4) 46:9;58:21;62:13; 108:8 pass(3)38:8;73:21;108:11 passes (3) 80:9;83:3;87:13 15:1;57:8,19,19; 151:21;154:3,6; passing (2) 109:5;140:19 passion (1) 7:6 parliamentarian (1) passionately (1) 26:14 past (4) 7:5;14:5;19:21; 8:11;49:22;142:14; 20:1,3;23:8;26:10; 193:22 29:25;30:25;34:13; Pasta (1) 149:12 45:10,11,13,16,19; 50:4;56:22;89:16; pastas (1) 102:10;104:22,22; 169:5 121:15;124:9;126:10; Patagonia (1) 146:18;152:15; 176:2 166:12;170:3;175:13; patented (1) 170:13 179:19;193:3,13; 197:14,15,22;198:12, path (5) 25;200:21;202:5; 7:7;99:19;132:11, 11;166:5 pathogenic (1) 102:20 pathway (2) 8:4;60:15 pathways (1) 60:2 pattern (1) 118:4

patterns (1) 176:24 pay (2) 11:20:63:1 payment (1) 192:14 payout (1) 54:8 pays (1) 39:23 **PCC (2)** 17:15,15 **PDS (3)** 8:12,13,16 pear (1) 184:6 pecking (1) 21:16 peel (1) 169:9 penalized (1) 65:20 pendulum (1) 189:1 people (36) 0:23;9:14,16,20; 13:21;38:11;43:22, 23;47:22;57:5;62:20; 71:18;72:1,3;85:16; 108:8;109:18;122:11; 145:20:153:15; 171:24:190:15:191:7: 197:20,23;198:16,22; 200:18:201:5.23: 202:16:204:15.17; 205:7;206:15;207:21 per (4) 8:19;130:22;162:8; 175:9 peracetic (6) 110:1,5;111:11,14; 112:11,22 perceive (1) 41:5 percent (15) 40:8;41:8;53:10,11, 14;54:4,5;77:1; 115:20;144:13,14; 164:25;171:10; 173:25;175:3 percentage (2) 54:12:193:11 perfect (4) 91:5;124:13;180:3; 185:10 perform (1) 46:13 performed (4) 162:15;175:17,20; 176:3 perfunctory (1) 197:11 perhaps (11)

- Vol. 5 May 15, 2024

19:2:32:9:90:13: 113:9:129:7:130:1. 11;197:14;203:11,13; 204:4period (9) 8:1;9:17;12:23,24; 13:3,5;27:2;104:23; 151:14 Perlite (7) 135:6.7.16.19: 136:1,4;140:22 permissible (1) 142:7 permitted (1) 159:14 peroxide (8) 110:1,4,10,11,25; 111:13,14;112:14 peroxyacetic (3) 111:11,15;112:11 perpetual (1) 17:20 persist (1) 168:10 persistence (1) 39:16 person (7) 120:24;155:18; 195:5;198:15,17,23; 202:11 personal (3) 90:18:100:11: 204:20 personally (5) 29:15;130:4;198:7; 206:10:207:23 perspective (5) 136:6:188:10; 191:20:204:6.20 perspectives (1) 27:19 pesticide (7) 27:11;31:8,18; 32:25;33:6,14;45:8 pesticides (11) 27:17;31:4,25;32:1, 2;33:8;45:4;47:24; 123:3;155:16;169:13 pet (1) 145:17 Peter (2) 208:23,24 petition (22) 74:12,14,17,20; 75:6,20;77:24;84:20; 85:1;90:11;114:11; 119:5;123:22;126:1; 129:22;131:23,23; 160:10;161:6;184:6, 9,17 petitioned (9) 74:10;75:11;84:22; 87:16;131:20,22,22;

138:20;151:10 pieces (5) petitioner (2) 85:5;161:7 petitioning (1) **pig** (3) 78:12 petitions (3) pigs (2) 88:24;184:3,8 **PETREY (28)** pile (2) 24:12;44:4;66:4; 79:21,23;81:6;82:13; pillar (1) 83:21;86:19;87:25; 28:4 pillars (2) 116:14:136:16,19,21; 138:5;157:15,18; 28:2.6 158:12:180:23; pilot (2) 181:10,14;182:21; 189:24;191:2;208:21; pinnatifida (1) 209:7,12,18 173:13 pipeline (1) pH (6) 89:21;93:1,22; 198:1 126:7;128:23;157:19 piping (1) pharmaceutical (1) 73:7 pit (1) 141:20 phase (2) 134:5 91:9;149:22 Pittsburgh (1) **PhD** (1) 204:8 108:24 place (8) phenomenal (3) 9:21;21:24;45:13 philosophical (1) 62:18 Places (5) philosophically (1) 40:15 philosophy (1) plan (6) 61:13 phonetic (1) plane (2) 76:22 phosphate (8) 74:18;78:2;157:13, planned (2) 14,19,20;159:2; 184:11 planning (2) phosphates (1) 158:3 plans (1) phosphoric (4) 151:15 157:23,24,24; plant (4) 158:23 physical (1) 159:16 140:18 plants (8) pick (7) 45:24;132:10; 151:2;204:21;205:13, 18:206:25 plate (1) pickles (1) 21:22 92:24 platform (1) picture (1) 201:3 plausible (1) 49:6 Pictures (1) 154:19 55:17 play(2)piece (16) 15:5;26:16;33:3; played (2) 34:12:35:9:42:10: 69:16,17;71:2;99:23; player (1) 107:21;116:2;118:13; 43:9 189:3,11;196:2 players (1)

193:15 19:16:48:22: playing (11) 118:21;192:7;196:13 26:18,21,24,25; 47:13;48:13,14,15; 124:9,21;167:24 71:5;170:14;196:12 pleasant (1) 92:24 124:7;162:2 please (12) 61:6;124:5 8:8,8,8;19:18;21:1; 38:6:39:13:40:13: 49:21;156:5;179:25; 208:10 pleasure (1) 7:5 28:24:91:1 plenty (1) 134:1 plug (5) 7:3;8:6;10:24; 68:21;192:12 PM (3) 179:13,13:209:22 pocket (1) 21:9point (40) 0:10;14:11;22:2,22; 32:17;38:11;39:9; 32:5;45:2;48:8; 44:21;47:6,9;62:22; 60:11:106:14:132:16; 65:8,19;67:20;71:11; 149:4;174:22 102:22;107:16; 108:17:113:19; 11:7,10:36:25; 115:14:119:16; 149:13:202:23 120:19:121:23: 123:19:126:18; 52:20,20,24,25; 132:12:146:15: 55:3:92:12 153:10:163:20.24; 175:25;176:20; 186:18,25;188:4; 107:5;154:2 196:2,5,8;197:17; 125:8;184:19 200:11 pointed (2) 16:16:56:4 85:9:135:11 pointing (1) 105:22 points (9) 30:21;76:24;96:16; 12:17;21:23;32:22; 44:19;66:1;69:9,12; 202:24;206:22 98:10;104:3; policies (4) 44:25;62:24;64:18; 163:22;170:9,11,15; 173:21;178:10 66:21 policy (10) 8:7;10:25;18:9; 51:10,22;58:9;130:4; 147:14,14;148:12 polish (1) 48:11 pollen (8) 38:24;193:23 84:20,22;85:1,2,6, 12;86:8;87:16 179:12;188:1 pollution (1) 178:9 Pollvanna-ish (1) 42:6

pond (1) 36:13 ponder (2) 109:2:164:1 ponds (1) 134:5 **pop** (2) 47:1,1 population (1) 10:5 porcine (1) 144:4 porous (1) 140:20 portfolio (2) 21:10;34:14 portion (3) 98:16;179:5;192:14 Portland (3) 58:21;198:21; 207:13 ports (1) 39:21 pose (2) 28:4;101:13 position (3) 11:1;71:11;105:11 positions (1) 195:1 positive (8) 8:4;11:2;15:4;33:2; 34:1;49:11;50:17; 56:5 possibility (1) 199:19 possible (14) 12:10;22:24;35:19; 39:10:45:14:47:18: 70:7;97:15;99:5; 109:20;186:4;193:18; 204:17;206:14 post-climatic (1) 51:23 post-COVID (1) 204:23 posted (1) 126:1 post-harvest (1) 74:13 posts (1) 52:10 pot (1) 71:10 potassium (14) 74:18;93:15,17; 136:14,15,22;137:10, 17;157:13,14,19,20, 23:184:11 potato (1) 74:15 potatoes (1) 184:10potential (10)

- Vol. 5 May 15, 2024

9:22:42:24:53:20; 97:11:103:14:139:15: 145:9;146:12;151:20; 160:3 potentially (6) 12:15;33:24;55:6; 160:17;167:17;179:2 potting (1) 135:18 poultry (3) 146:14;148:2;162:3 pounds (5) 30:9;162:6,7,7,8 powder (20) 78:5;80:14;83:8; 114:4,5,8,13,25; 115:8;117:3,11,12,25; 118:7,10;119:16; 120:16;169:12,15; 170:19 Powell-(2) 36:24:146:1 **POWELL-PALM (60)** 24:25;38:9,14; 39:25;40:3;44:5,7; 56:15,16;57:21; 58:10;59:23;61:5; 63:23;64:1,6,9;67:15, 19;69:2,4;72:22;80:3, 4;81:11,12;82:18,19; 84:1,2;86:24,25;88:5, 6:118:15.17:124:5: 146:3,10,23;179:24; 181:2;182:24,25; 185:5,10,14,24;187:5; 188:3;189:4;190:23; 192:19:194:13,16,19; 197:5;199:7;203:18, 21 powerful (1) 0:5 **PowerPoint** (1) 55:18 **PPM (2)** 182:3,14 practical (1) 97:10 practice (7) 7:9;50:10,16;56:24; 58:2;59:5;107:14 practices (13) 50:14;52:17;58:25; 59:3,8;104:13;107:4, 7;168:15;176:13; 177:18,24;195:24 preadjuster (1) 52:5 precedent (1) 106:8 precedents (1) 64:24 precedent-setting (1) 130:7

Burke Court Reporting & Transcription (973) 692-0660 (25) petitioner - precedent-setting

preceding (1) 45:5 precipitates (1) 76:13 precursor (1) 77:13 predictable (2) 101:9:201:13 prefer (1) 130:1 preferable (1) 123:24 preference (1) 130:21 preparations (1) 174:10 prepare (2) 134:17;202:10 prepared (2) 167:25;204:1 preparing (1) 74:4 presence (3) 77:25;125:1;128:3 present (7) 22:12;35:20;75:7; 95:20;101:6;156:2; 163:16 presentation (5) 12:6:23:1:50:6: 110:11:200:22 presented (2) 70:19:101:5 preservation (3) 16:17;17:23;18:21 preservative (1) 141:21 preservatives (1) 142:4preserved (3) 143:1:150:6:151:12 press (2) 37:16;60:22 pressure (2) 142:23;201:6 pressures (1) 202:8 pretty (20) 8:1;23:6;52:4;54:5; 65:3;78:20;92:21; 121:4;126:22;128:25; 156:9;160:20;168:19; 173:4,10,18;177:2; 193:3;203:15;209:17 prevent (2) 102:19;156:25 preventing (3) 29:22;157:21; 190:12 Prevents (1) 158:19 previous (4)

155:4 previously (1) 76:1 price (9) 43:13;54:10;55:12; 188:7:192:21,25; 195:22,22,24 prices (5) 187:17;190:2; 194:12,24;195:25 pricing (2) 55:5,7 pride (1) 121:23 primarily (1) 101:7 primary (2) 23:3;49:17 principal (1) 167:25 principles (2) 147:15;148:4 printed (1) 89:8 prior (7) 52:10;54:23;98:4; 144:17;148:22;163:4; 176:10 priorities (5) 50:18:114:19.22; 124:7;184:21 priority (3) 62:9,9:115:13 private (1) 43:11 proactive (1) 26:17 probably (16) 36:25;40:7;67:16; 68:7;112:11;115:11; 119:25;122:25;125:3, 9:151:6:154:21; 172:7;191:16;196:8; 206:7 problem (6) 18:19;48:3;142:1; 157:5;166:19;193:14 problems (6) 18:7;52:2;61:19; 66:17,19;195:11 procedures (9) 27:10;30:7,7,18,20; 33:25;45:1,2;48:8 process (53) 23:8;25:17;28:21; 34:4;36:9;57:7;76:6; 90:11;91:13;97:7,11, 15;100:13;103:11; 105:19;107:9;108:16; 109:9,19:112:22,23; 117:16;118:21;119:7; 126:9,17,19,21,24,24; 127:2,4,19;129:9;

130:19:144:2,19; 150:17:153:22:154:3. 8,14;160:4;161:18; 162:13.15:170:12: 172:17;201:18,22; 203:22;204:14;207:9 processed (8) 76:23;121:5;158:3. 20;168:2;169:6; 173:23:178:15 processes (15) 91:4,10:99:1,4,5, 20;100:3;104:17; 126:14;127:13,15,25; 128:6,8;138:17 processing (24) 75:22;77:10;89:20, 23;99:11;106:9; 126:7;128:1;129:7; 135:21;140:17; 141:24;142:6,15; 144:7;147:22;159:15; 161:19;167:15;170:9, 11,14,15;178:12 processor (2) 202:2,2 procurement (1) 15:7 produce (22) 50:21:56:8,11:67:9, 11:68:6,12,15; 100:23:101:7:121:18: 125:22;126:13,25; 142:23;143:24;148:2; 158:18;173:24;176:1; 193:25;194:4 produced (25) 37:15,16,17;76:18; 77:9;98:12;99:9; 100:16:101:1:104:5, 6,11;107:11;123:3; 124:8;126:20;127:4, 18,24;129:8;139:15; 142:8;157:24;162:3; 174:4 producer (8) 52:23,24;53:9,12; 54:24;57:18;85:10: 191:3 producers (27) 10:14;11:24;15:10; 43:8;50:7;51:15,19; 52:8;54:3,21;55:9,24; 56:1,7,10,19,20,20; 57:4;59:16;65:10,19, 20;67:10;69:24;70:1; 193:14 produces (1) 92:24 producing (2) 115:7;121:10 product (38) 33:13;37:7,10,10;

41:17:85:2:90:14; 97:13:99:10:107:12: 108:13:115:19:119:3; 123:4.15:128:7: 130:23:134:22; 135:17;138:16;142:9, 10;143:18,22;144:19; 146:6,15,16,18;157:1; 158:22;160:22; 170:11:190:2.5.15; 191:5,13 Production (34) 15:24;17:24;49:11, 15;51:5,6;52:20;53:7, 15,24;57:17,17,19; 75:24;98:14,18,24; 101:12;102:3,21; 104:7;123:20;131:1; 138:18,19;139:24; 145:6;159:21;163:13, 14;165:5;169:19; 170:8:175:2 products (55) 29:22;34:13,18; 36:8,21;37:4,17; 38:18,20;74:19,21; 76:5,24;77:1,7;92:23; 93:4;94:3;99:8;100:4, 5,20;102:8;104:8; 107:10:111:21; 115:20;117:5;122:19; 123:8:125:4:127:24: 130:12,19:133:24; 136:3;137:18;143:14, 21,25;148:2;156:17, 18;157:20;162:19; 167:18:168:14:169:7. 20:170:18.21.25: 172:19;174:19; 201:14 product's (1) 123:1 professional (1) 148:10 professorial (1) 195:8 program (26) 7:16;9:9,18;10:21; 14:6;15:20;16:3; 17:21;18:9,22;19:6, 16;20:12;21:4;22:11, 23;27:5;29:23;35:11; 41:4;63:1;68:10; 96:13;154:13;204:6, 20 programs (10) 9:12;12:16,19;13:8; 16:21;18:11,20; 42:12;52:16;192:13 progress (10) 20:1,13,15;50:3; 51:8;56:22;58:11; 68:15;140:4;145:1

- Vol. 5 May 15, 2024

progression (1) 144:21 progressive (1) 58:14 prohibited (14) 13:1;31:3,25;32:1, 3,6;33:11,12,24;45:4, 8;96:11;98:20;107:12 prohibiting (1) 12:15 prohibition (3) 33:10:91:18:142:4 prohibitive (1) 33:9 project (1) 18:23 projects (1) 94:2 promised (1) 114:3 promote (1) 147:16 promoting (1) 174:1 promulgating (1) 145:21 properly (1) 103:12 properties (2) 134:22;141:22 proposal (32) 8:23;9:1;10:1,9,11, 17:11:2:15:5.8.25; 17:3;20:19;23:15,16; 56:4;60:9;75:15,18; 78:21;84:22;148:22; 152:14,21,23;154:6; 166:4;178:1;182:9, 14;184:22;187:21; 206:20 proposals (6) 27:5:75:6,10; 148:14;178:22,23 propose (1) 206:21 proposed (7) 94:16;148:20; 149:25;151:4;152:19; 153:2,6 proposing (1) 33:23 protect (3) 41:16,24;42:3 protection (5) 42:18;51:9,10; 64:25;65:7 protects (1) 143:17 protein (3) 141:23;144:2,7 proteins (1) 157:21 protest (1)

17:14;68:25;95:3;

Burke Court Reporting & Transcription (973) 692-0660 (26) preceding - protest

Spring 2024 Meeting	
38:2	7,10,18
protocol (1) 31:7	punch (1) 34:16
protocols (4)	purchase
27:9,15;31:1;36:7 proud (2)	54:3 purchase
84:16;86:2	101:9
provide (19)	pure (1)
28:16;31:16;34:3,5; 45:2,20;47:21;54:6;	104:11 purificat i
45.2,20,47.21,54.0, 55:7;99:7;103:13;	168:6
111:1;115:21;135:9;	purify (1)
137:5;145:22;206:13,	162:16
13,14 provided (4)	purpose (121:11
46:11;96:4;97:14;	164:21
99:3	purposes
Providence (2)	93:21
163:9;166:9 provides (4)	pursue (1 90:19
26:1,8;98:17;	purview
143:20	113:2
providing (6) 10:2;31:14;51:15;	push (4) 43:13;5
55:14;102:17;114:11	151:1
public (55)	pushing (
10:4,12;11:17;	29:6,10
26:20,21;27:11; 28:11;34:1,3,7,10;	151:22 put (20)
42:7,25;44:20;45:2,6;	13:20;1
50:11;53:1,4,16;	44:2;47
67:25;68:13;69:6; 73:5;78:5;90:4,12;	70:22;7 94:25;1
103:17;107:4;110:18;	16;112
112:19;114:20;	122:9;1
127:20;128:23;136:7,	196:17
8;139:9;142:13; 149:20;151:1;162:25;	putting (2 121:7;1
175:10;177:20;	puzzled (
179:18;185:18;	151:16
189:20;198:4;199:14; 202:3;203:23;204:3,	pyrophos 158:9,1
12,16;206:21;208:8	130.9,1
public/private (1)	
207:6 publication (2)	quality (9
96:13;98:5	50:22,2
published (1)	56:10;6
150:5	121:12
puddings (1) 167:17	quantific 53:15
pull (2)	quantify
85:16;118:2	22:10
pulled (2) 122:3;157:6	quantitie 103:22
pullulan (15)	QUARC
138:8,8,9,10,12,16,	23:21;7
20,22;139:10,13,15, 18,20,22,23	82:23;8 88:10;1
pullulans (1)	88:10;1 183:4
139:2	quaterna
pulp (11)	111:2
168:25;169:1,2,3,4,	quats (1)

7,10,18,19;170:10,17	111:2	
unch (1)	queue (5)	r
34:16	26:14;48:5;74:23;	
urchase (1)	116:13;118:16	r
54:3	quick (5)	
urchases (1)	95:14;108:6;120:7;	r
101:9	128:17;194:9	
ure (1)	quicker (2)	r
104:11	59:17;128:16	
urification (1)	quickly (3)	
168:6	23:7;62:10;124:23	r
urify (1)	quiet (2)	
162:16	24:13,14	
urpose (5)	quietness (1)	
121:11;162:5;	72:16	r
164:21;165:3;198:25	quite (15)	
urposes (1)	15:18;21:23;35:7;	r
93:21	90:13;99:12;109:5,9;	
ursue (1)	110:12;140:5;172:9,	r
90:19	17;184:16;196:3;	
urview (1)	198:24;199:9	r
113:2	quo (2)	
ush (4)	150:6;151:12	r
43:13;56:16;59:9;	quote (1)	
151:1	121:3	r
ushing (4)	quoting (1)	- 1
29:6,10;122:23;	176:1	
151:22	17011	r
ut (20)	R	-
13:20;19:12;39:11;	N	r
44:2;47:4;60:4,10;	rabbit (1)	1
70:22;74:7;89:2;	152:8	
94:25;101:24;106:13,		
	radar (1) 26:4	
16;112:4;118:16;		
122:9;140:3;145:20;	rag (1)	r
196:17	169:9	
utting (2)	RAI (1)	r
121:7;153:24	114:23	
uzzled (1)	railcars (1)	
151:16	72:3	r
vrophosphate (2)	rains (1)	
158:9,11	36:24	r
0	raise (1)	
Q	194:20	
	raised (2)	
uality (9)	62:21;123:25	
50:22,23;51:2,4;	raises (1)	r
56:10;67:11;103:23;	123:18	
121:12;147:11	raising (4)	r
uantification (1)	13:20;185:23;	
53:15	187:14;199:2	r
uantify (1)	ranch (1)	
22:10	194:1	
uantities (1)	range (1)	
103:22	167:12	
UARCOO (10)	rapidly (1)	
23:21;79:5;81:16;	174:25	
82:23;84:6;87:4;	rate (1)	
88:10;178:4;181:6;	52:4	
183:4	rather (3)	
uaternary (1)	38:24;117:11;131:4	
111:2	ratio (5)	
uats (1)	54:15,16;62:23;	
	51.15,10,02.25,	

65:17.19 ational (1) 147:16 ationale (2) 93:6:142:16 aucous (1) 154:12 aw (7) 162:12;190:1,5,15; 191:5,13;193:3 each (7) 12:4;13:20;20:22; 146:4;152:5;189:19; 192:21 eached (1) 202:16 eaching (2) 11:23;16:23 react (3) 17:4;72:14;89:15 reacted (1) 158:23 eacting (1) 156:19 eaction (4) 76:9,14;126:15; 127:6 eactions (1) 157:1 read (11) 14:10:85:16:96:7; 115:5:116:22.25: 163:3;164:12;165:4; 177:8.17 eadily (1) 127:2 eading (4) 75:17;107:6,13; 165:8 eady (3) 8:21:68:10:122:7 real (11) 20:19;38:10;55:18; 59:3,5;62:21;91:12; 93:16;108:5;126:11; 171:16 ealistic (2) 42:5;168:20 ealize (3) 72:1;118:5;208:1 eally (165) 9:17;10:18;11:2,9, 11;13:2;14:25;15:13; 16:3,6,16;18:1,6; 19:15,20;21:9;22:2,5, 20,21,25;23:9;25:12; 26:14,15;27:4,6,24; 29:12,16,19,19;32:8; 33:4,5;36:16,19;37:2, 5,22;39:1,15,17; 42:18;43:9,18;44:9; 45:23;46:1;47:22; 48:17;50:1,17;51:18;

53:5;58:8;59:1,9,14; 61:25:62:22:63:7.11; 65:11.13:66:6.8.14. 21:67:12:68:1,4,12; 69:9,11,19,20;70:6; 71:1,7,12,24;72:23; 74:5;90:15;91:21; 92:8,10,11,25;93:6; 94:25;105:18,24; 106:2;110:13;111:17; 112:15;113:7;116:20; 117:13,15;118:19,24; 119:12;120:25;121:2, 13;122:3,12;123:5; 124:9;125:6;127:1, 21;129:13,15;130:19, 22;131:9;142:24; 144:24;154:19,24; 155:16;157:4;167:2; 169:25;171:23; 176:18:186:18; 189:10,11;190:6; 191:17;192:2,4,11,15; 193:21,24;194:9,11, 11;195:12,18,25; 197:1;198:8,11,19; 200:1,5;201:12,18; 202:3,9,19,21;203:22, 22;204:1,2;205:25; 206:1 realm (1) 106:9 rearranged (1) 74:24 reason (9) 55:22;61:23;85:20; 94:3:101:22:108:7: 156:10;201:24,25 reasonable (1) 48:8 reasons (2) 109:15:137:3 recall (2) 94:6;179:16 receipt (1) 128:1 receive (14) 46:8;52:21;53:25; 57:19;78:6;91:3; 127:15;135:2;141:1, 5:145:13:150:19: 158:4:159:3 received (11) 28:11;30:14;34:2; 75:20;90:24;125:18; 148:21;152:20;160:9, 18;169:21 receiving (5) 11:13;33:19;51:21; 53:9,10 recent (3) 49:6;95:20;174:25 recently (3)

(27) protocol - recently

52:25;155:10; 195:23 **RECESS (2)** 73:17:179:13 recitation (1) 152:17 reclassification (1) 160:16 reclassify (1) 131:24 recognition (1) 59:13 recognize (5) 19:5;62:19;130:18, 20,24 recognized (2) 21:22;174:7 recollection (1) 153:4 recommend (3) 98:10:139:11:151:7 recommendation (16) 16:8;60:23;61:1; 90:18;98:7,10;130:3; 148:15,18;151:13; 163:4,11;165:10,18; 166:23;176:11 recommendations (6) 60:3,18;98:2,3,8; 150:22 recommended (6) 116:22:148:6.9: 150:11:156:12.13 reconciliation (1) 59:14 record (3) 45:6;145:20;197:10 recreate (1) 142:5 recruit (1) 198:22 recruited (1) 200:1 recruiting (1) 68:11 recruitment (1) 23:3 red (4) 101:4;103:2;180:8; 181:12 reduce (6) 97:16:116:24: 190:15:191:4,13,24 reduced (1) 57:13 reducing (6) 10:13;17:25;58:3; 161:23;191:21; 192:13 reduction (1) 54:18 redundant (1) 128:9

reeling (1) 62:12 re-envision (1) 40:11 re-fallen (1) 189:5 refer (5) 76:7:95:13:98:3; 105:14;107:7 reference (5) 62:13;86:3;94:7; 150:1:172:6 referenced (1) 140:14 references (2) 148:12;151:11 referred (4) 96:12;98:8;114:22; 126:16 referring (2) 41:14:101:14 refining (1) 159:19 reflect (2) 27:15;70:20 reflecting (2) 56:8;104:17 reflection (3) 22:7;60:25;122:18 reflective (2) 51:4;78:21 reformatted (2) 96:20.24 regard (2) 113:6;195:25 regarding (2) 30:20;44:20 regards (1) 16:15 regenerative (1) 144:16 region (4) 9:18;18:10;59:8; 198:16 regional (5) 18:7,10;200:18,22; 208:4 regionality (2) 201:13,25 regionally (1) 201:6 regions (1) 19:25 register (3) 65:5;205:24;206:2 regular (1) 201:12 regulation (5) 85:15;130:22; 147:24;148:9;156:11 regulations (5) 7:10;110:14,15; 152:6:176:4

regulatory (3) 34:2:48:7:86:3 reimbursed (1) 11:21 rejecting (1) 36:8 relate (1) 109:23 related (15) 18:20:31:7:41:6; 77:23;78:4;85:15; 94:23;106:25;107:1; 117:18:169:12.13: 175:14:178:21.23 relationship (3) 16:2;22:9;71:24 relationships (2) 10:15;12:8 relative (1) 72:16 relatively (2) 89:1:153:14 released (1) 160:5 relevant (5) 10:5;11:5;48:12; 72:12;165:19 reliable (2) 31:16;34:21 reliance (1) 155:3 relief (1) 133:9 relisting (17) 94:2;103:19; 127:21,22;136:9; 137:25:139:10:141:8; 145:15:148:24:158:5: 159:4;160:19,20; 161:1;169:22;175:10 rely (1) 19:15 remain (1) 11:16 remainder (1) 76:7 remained (2) 54:14;145:4 remaining (4) 137:13,15;146:16; 169:9 remains (3) 78:17:93:7:142:14 remarkable (1) 162:24 remarks (3) 9:19;207:2,8 remember (10) 38:2;94:8;122:20; 153:25,25;172:14; 177:24:181:15: 199:13:208:10 remembers (1)

164:17 remind (2) 153:22:172:7 reminded (2) 133:15:185:2 reminder (4) 9:7;89:7;120:7; 160:15 reminiscent (1) 196:21 removal (2) 78:12;142:16 remove (5) 74:20:94:3:118:8: 129:22;184:12 removed (7) 76:1;77:22;90:2; 129:16;137:1;169:21; 171:23 removing (1) 93:7 render (1) 168:3 renders (1) 142:9 renewal (1) 154:11 rent (2) 190:10;191:12 repeat (2) 119:22;152:15 replacement (1) 133:24 replaces (1) 147:23 report (16) 58:11:96:4:97:7.13, 20.23.25:98:25: 104:6;138:15;160:21; 173:20;175:9;177:8, 17;187:21 reports (1) 96:18 represent (1) 108:6 representation (2) 8:7;200:19 representing (2) 63:13;193:1 reproduce (1) 98:11 reproposing (1) 153:8 request (10) 11:22;12:23,24; 34:9;45:2;65:3;90:23; 97:23,25;125:17 requests (1) 56:6 require (5) 13:13;31:4;45:1; 98:21:168:15 required (8)

- Vol. 5 May 15, 2024

98:21:104:17; 147:24:148:9:151:5. 21:156:11.21 requirement (6) 17:17;34:2;118:13; 130:22;139:17; 172:16 requirements (2) 130:23;137:6 requires (1) 147:8 requiring (3) 26:2:97:2:119:16 research (13) 49:24;114:19,20; 115:13,13,15;116:2; 124:1,2,7;145:4; 184:21;197:25 researcher (1) 62:19 Researchers (1) 197:21 researching (1) 100:2 reside (1) 133:5 **RESIDUE (13)** 25:5,10:29:19,25; 30:18;31:8,25;32:25; 33:23:34:3,14:48:7: 183:23 residues (2) 45:3:48:1 resiliency (1) 49:12 resilient (1) 55:19 resist (1) 209:2 resolution (1) 152:5 resort (1) 68:8 resources (2) 13:7;15:14 respect (2) 40:18;202:3 respectfully (1) 192:20 respective (1) 93:3 respond (2) 33:3:145:14 responded (3) 127:23;169:23; 170:24 responding (3) 32:24;33:18;34:1 response (5) 79:21:127:23; 169:25:180:23: 181:10 responses (5)

Min-U-Script®

177:24

136:5

127:16

126:23

185:18

177:3

74:13

164:4

15:4;105:2,6; 128:12:170:3 responsibility (2) 40:22;48:6 rest(7) 9:4;107:25;144:13, 14;173:18;176:8,15 restaurants (1) 174:2 restore (1) 147:21 restriction (1) 163:6 restrictions (4) 76:22;167:1; 175:15,19 restricts (1) 76:25 restructuring (1) revised (1) 11:20 result (4) 33:2;42:21;128:6; 160:3 resulting (1) 61:16 Rhode (2) results (12) 31:14,16,21;32:24; ride (1) 33:18,20;34:1,3,7; 39:22;41:20;45:3 right (92) resumes (1) 188:9 retail (1) 195:24 retailer (4) 15:3:115:10:196:4, 6 retailers (1) 200:24 retain (3) 69:24;146:16;154:5 retention (2) 23:5;169:4 rethinking (1) 32:20 reticent (1) 130:4 retrace (1) 165:10 revelation (1) 120:23 revenue (7) 40:20:51:8.10: 64:25;65:7;145:9; 187:16 reversal (1) 154:24 review (20) 0:12;19:20;30:25; 35:24;88:25;90:23; rise (1) 93:12:100:13.15: 104:16;108:1;109:19; risk (23) 113:9:134:18:145:3; 149:3;166:11;175:13;

177:23:178:1 15,17,18,19:50:5: reviewed (5) 62:7:63:3:69:2:71:6: 136:23:138:15: 101:13:103:9:108:4; 173:21:175:12: 151:25:153:18:157:7 risk-based (3) reviewing (1) 35:9:175:15.19 risks (5) reviews (30) 35:11:59:7:151:20. 89:4,12;90:7;91:6; 23;161:23 **RMA (13)** 93:14:95:5:96:6; 104:17;105:25;110:4, 50:9;51:8;52:22; 7:114:5:125:14: 56:23:58:1,14:59:14; 60:21;64:20;65:1,10, 128:18:130:6:133:13: 135:7;136:15;138:9; 20.24 140:11;141:15;143:7; road (3) 33:1;193:8;198:19 147:1;157:14;158:11; robust (4) 159:9;161:14;167:7; 55:23;71:21; 169:1;172:25 171:12;191:25 rock (5) revision (1) 27:10:76:15.18; 157:24;192:25 revisiting (1) rocks (1) 134:4 rockweed (1) 163:10;199:12 174:20 role (5) 15:6;130:10;188:1; 196:4.6 13:22;15:16;23:11; roller (1) 27:5:35:17:36:19: 50:14 rollout (2) 40:1,4,7,8;41:15; 42:13:43:21,24:46:8, 25:22:30:1 16:49:2:53:8:55:5: roll-out (1) 61:20 64:18,24;70:16;71:6; rookie (3) 75:3;84:19,19;89:3,3; 95:9:105:15.17 90:10,14;91:10,12; 92:11,13,16;94:10,13; room (13) 105:22;106:12,16; 14:10;73:4,5; 108:15;109:12;111:9, 123:12:149:1,13,16; 10;113:13;114:3,19; 195:9;201:21;203:15; 117:22,25;129:4; 206:12:207:4,5 rooster (1) 132:16,19,22;133:16; 135:4;136:12,21; 209:9 138:8,10;140:7; rope (1) 207:8 141:13,16;143:5,6,8; ropes (2) 147:3;149:4;150:8; 174:6;177:13 153:7;155:2,18; 157:12,15;159:7; rosemary (2) 161:13;164:19; 159:12;160:21 165:12;167:8;168:23; rotating (1) 173:4;177:7;178:18; 7:2 179:5;180:7;185:15, rotation (4) 66:14;113:16; 17;188:11;193:23; 191:25;192:2 194:14;201:20; 204:21;209:20 rotational (1) ripening (1) 190:7 rotations (3) 191:10,20;192:1 round (6) 7:23:14:24:75:14: 186:1;187:25;207:16 27:12,13;32:10,10; 35:9;41:5;48:25;49:3, rounds (1)

202:22 Roundup (3) 36:23.23.24 route (1) 26:19 row (3) 56:7;67:10;73:3 rubber (1) 32:25 RUCH(1) 38:7 rule (16) 29:25;40:9;96:13; 98:5:148:11.11: 149:25;150:5;151:4, 12;153:2,6,7,17; 205:1;208:8 rulemaking (1) 154:8 rules (7) 27:1;48:15;71:5; 78:16:124:24:145:17: 150:22 run (3) 146:12;168:12; 208:25 rural (2) 20:9,10 Russia (1) 137:16 rve (9) 50:15:84:20.22: 85:1,2,6,11:86:8; 87:16 S saddled (1) 106:1 sadly (1) 7:2 safe (2) 178:16:208:16 sake (1) 102:25 saki (1) 100:21 salad (1) 169:5 salt (5) 76:9;133:23;134:4, 5:137:8 salts (1) 135:5 same (25) 22:14;27:1;48:15; 66:10,17,19;67:2; 71:5;93:11;107:23, 24;112:13;115:15; 153:8,9;156:15,21; 170:22:172:11: schedule (1) 173:10,18;175:24; 176:9;186:21;187:16 schemes (1)

sample (6) 30:10,10;33:1,20; 45:25;100:22 samples (3) 30:8:45:19:46:2 sampling (10) 29:25;30:6,18,20, 22,24;31:1;33:19,25; 34:14 sanitary (1) 143:23 sanitizer (5) 110:12;111:1,18; 112:6.8 sanitizers (4) 112:2;113:8,14,15 sat (1) 207:8 satellites (1) 29:8 satisfy (1) 55:10 sauce (1) 100:21 sausage (3) 143:9;144:10; 145:18 sausages (1) 143:15 save (3) 75:17;125:11;152:7 savviness (1) 27:14 savvy (1) 206:15 saw (9) 22:15;44:6;94:3; 116:12:120:20:166:1: 197:5;198:18;199:1 saving (19) 38:3.19:40:12: 43:23;47:12;58:12, 14;63:5;101:17; 108:4;109:6;121:23; 164:13,19;177:5; 186:14;197:17;203:3; 208:12 scale (6) 12:12,16;49:17; 54:22;139:24;140:5 scare (1) 209:4 scary (1) 120:10 scatter (1) 71:10 scenarios (2) 32:15:59:4 scented (1)

Burke Court Reporting & Transcription (973) 692-0660

(29) responsibility - schemes

145:17

199:17

- Vol. 5 May 15, 2024

Spring 2024 Meeting	1	T	1	May 15, 2024
76:20	79:3;80:15;81:25;	157:8;171:16	51:23;141:7	131:12;198:16,22
schooled (1)	83:9;86:9;87:17;	segment (3)	several (14)	showed (3)
109:7	180:14;182:16	35:21;92:21;136:2	12:12;25:25;38:9;	99:19;201:17;
science (2)	Secondly (1)	segments (1)	49:22;59:2;73:2;	204:15
46:18;110:11	45:7	201:7	77:15,18;78:9;	shows (1)
scientific (1)	secret (1)	segregation (1)	109:14;159:25;	46:1
175:23	124:17	170:4	174:16;175:25;	shrinking (1)
scope (24)	secretary (58)	segue (1)	176:10	193:8
13:13;14:2;17:11;	7:10,16;14:16;	21:2	severe (1)	sick (1)
48:1;77:21;90:23;	15:11,25;16:12;	selection (2)	137:9	157:6
91:1;95:20,22;96:4;	17:12;23:23;25:2;	31:8;33:25	sextant (1)	side (14)
99:7,24;100:1,12,24;	28:14;29:18;36:15;	self-reflection (2)	29:5	36:8,13,13;49:24;
101:15,23;103:13;	40:2;42:8;44:24;	10:21;20:20	sexually (1)	51:22;53:8;108:5;
104:11;125:18;126:8;	46:15,25;63:17,25;	sell (1)	98:11	145:22;188:17;
160:8;168:11;197:2	64:3,7;71:16;79:7;	38:17	shape (1)	189:14,19;190:16;
scoped (1)	80:8,17;81:18;82:25;	semester (3)	29:3	204:9;207:8
17:3	83:2;84:8,12;87:6,12; 88:12,20;89:14;	8:11;116:1;178:24	share (9) 11:20;17:13;19:8;	sidebar (1) 188:15
screen (6) 31:18;46:18;47:1;	92:19;94:10,12;	semipermeable (1) 143:19	40:22;71:17;122:17;	sides (3)
180:7,15;181:12	117:9;120:14;128:19;	Senate (1)	40.22,71.17,122.17, 166:11;194:6;208:19	129:21;189:18;
screening (1)	131:21;132:4;141:16;	72:10	sharing (2)	129.21,189.18,
27:11	143:4;145:19;151:19;	send (3)	43:16;72:18	signed (2)
screens (2)	154:10;181:8,25;	45:25;156:5;209:7	sharpening (1)	53:6;204:15
31:18;33:6	183:6,18;194:9,15,17,	seniors (1)	32:17	significance (1)
scrutinized (1)	20,24;206:10	7:1	shed (2)	95:17
38:20	Section (4)	sense (5)	46:15;91:21	significant (4)
se (1)	11:22;12:3;126:17;	11:25;27:3;63:5;	sheep (1)	56:25;62:9;137:17;
130:22	150:2	108:20;147:6	162:3	162:23
seafood (1)	sections (2)	separate (5)	sheet (1)	signs (1)
145:21	95:21;150:3	41:9;57:16;93:12;	16:7	122:9
seal (2)	sector (4)	96:17,21	shelf (1)	silicon (1)
21:21;103:16	19:7;175:4;190:4;	separated (2)	138:23	78:2
search (2)	195:24	75:14;159:18	shells (1)	Silva (3)
63:18;172:16	sectors (1)	separately (1)	140:25	59:3;114:20;118:25
searched (1)	141:20	75:18	shifted (1)	similar (11)
170:19 searching (2)	secure (2) 15:10;17:21	separation (2) 140:18;157:21	123:5 shines (1)	39:11;65:6;69:11,
170:16;172:18	securing (3)	September (2)	131:9	23;75:7;95:2;111:12; 122:17;177:2;186:5;
season (2)	17:23;158:20;170:4	96:19;150:5	shipped (1)	203:2
68:6;201:2	seed (8)	series (1)	193:7	similarly (1)
seat (1)	37:15;69:12;85:7,	208:2	shipping (1)	60:17
153:24	11;176:9;185:19;	serious (1)	193:6	simple (5)
seats (3)	193:6;196:15	93:4	shipping/receiving (1)	36:14;89:1;168:7,
133:2,4;200:25	seeds (3)	serve (2)	28:23	19;180:15
Seattle (1)	30:21;85:6;159:17	0:23;147:15	shoes (1)	simply (3)
17:16	seeing (5)	service (3)	0:25	35:3;36:11;208:12
seaweed (18)	8:2;14:6;28:2;94:8;	18:5;19:1;109:17	shoot (1)	Simultaneously (2)
137:5;172:24;	167:1	services (1)	24:20	154:5;209:16
173:7,12,16;174:1,5,	seek (2)	15:6	shop (1)	single (2)
7,10,25;175:4,12,22;	51:9;193:9	session (1)	144:9	95:24;96:21
176:6,15,23;178:5,8	seeking (1)	96:2	shore (1)	sink(1)
seaweeds (9)	192:5	sessions (2)	176:25	48:2
172:24,25;173:5,9,	seem (4)	199:23,24	short (9)	sit (2)
22;174:17,18;175:11; 176:5	94:6;150:14;153:8; 155:17	set (1) 130:4	9:17;19:22;49:20; 70:25;84:24;158:8,	62:20;200:24
second (18)	seemed (2)	setting (6)	12;166:23;179:10	sites (1) 11:18
23:17;31:21;46:16;	60:1;169:23	13:10;69:7;91:11;	shortage (2)	sitting (2)
62:5;94:6;99:22,22;	Seemingly (1)	133:8;153:12;188:11	122:2;132:17	149:23;189:4
104:23;126:15;	153:5	settled (1)	shorter (1)	situated (1)
131:18;151:23;170:3;	seems (11)	153:15	104:1	141:17
173:13,16;180:1,2;	36:11;58:2;84:24;	settlement (1)	shoutout (1)	situation (4)
185:6;209:1	106:7;118:20;119:8;	41:10	145:9	18:15;115:24;
seconded (8)	128:11;143:3;156:1;	seven (2)	show (3)	123:23;172:20

- Vol. 5 May 15, 2024 63:20;89:15 species (5) 103:4;139:2,4; 150.17.172.15

situations (2) 147:19:149:12 six(3)19:23;20:13;199:15 size (2) 12:15.16 skin (1) 144:2 skins (2) 145:2;167:24 slam(3)60:1;110:13;114:7 slice (1) 108:15 slide (10) 8:6;25:15;27:25; 50:2,18;52:9;53:4; 55:15;56:9;67:4 slides (5) 25:11;49:4,21; 58:23:67:6 slightly (2) 61:13;150:17 slot (1) 200:13 slots (1) 199:24 sluggo (1) 135:12 small (4) 11:17:40:18:68:7; 196:3 smart (1) 208:13 smell (1) 145:24 smidge (1) 185:6 **SMITH (244)** 0:5:14:13:15:12; 16:11;19:4;21:1; 22:15;23:10,13,20,22, 24;24:1,3,5,7,9,11,13, 15,18,20,24;25:1,4; 36:1;39:13;44:1,5,19, 25;46:24;47:7;48:23; 56:15;59:24;61:4; 62:14;63:16;66:3; 67:15;68:16;70:12, 15;71:15;72:7,19; 73:15,18:75:12: 78:22:79:6.8.10.12. 14,16,18,20,22,24; 80:1,3,5,7,10,18,20, 22,24;81:1,3,5,7,9,11, 13,15,17,20;82:2,4,6, 8,10,12,14,16,18,20, 22,24;83:1,4,12,14, 16,18,20,22,24;84:1, 3.5.7.9.11.14:85:21, 24;86:12,14,16,18,20, 22,24;87:1,3,5,7,9,11,

7,9,11,13,15,17,19,22; solution (2) 92:1.15:93:9.16: 38:4:61:11 solutions (1) 94:19,22;106:22; 111:6.9:113:6.22: 61:2 Solvay (3) 117:8;118:15;125:16; 132:6,21,25;152:11, 126:17;127:2,4 24;153:2,5;154:2; solvent (4) 155:24;159:10;169:2; 33:10:37:13,16; 172:6;179:7,15; 40:17 180:1,3,7,11,18,20,22, solvents (4) 24;181:1,3,5,7,9,11, 33:8;143:20; 16,18,20,22,24;182:2, 159:22;160:4 7,10,12,18,20,22,24; somebody (4) 183:1,3,5,7,9,11,13, 62:1;95:9;176:19; 15,17,21;185:8,12; 178:1 186:22;187:1,3; some-odd (1) 188:13;189:7,23; 89:5 someone (8) 190:18;193:19;194:8; 17:9;51:17;86:1; 195:3,15;196:18; 197:6,19;198:2; 123:22;155:15,18; 199:1.6.20;200:6.16; 164:17:165:14 sometimes (8) 201:9;202:13;203:1, 20;204:4;205:15; 41:24;50:24;51:1; 206:9,19;207:1,3,17; 57:6;106:5;123:10; 208:18,24;209:2,5,11, 127:22;156:25 14,16,20 somewhat (1) smoother (1) 118:5 102:13 somewhere (2) smoothly (1) 89:5;116:22 204:1 soon (3)snack (1) 126:2;176:15; 148:2 205:20 snacks (1) sooner (1) 156:19 52:1 sophistication (1) snake (1) 27:14 173:7 snapshot (1) sorry (31) 10:9;24:22;27:7: 91:16 soapbox (1) 31:11;67:5,7,7;72:9, 135:15 15;78:22;83:9;92:17; soda (5) 123:15:125:7:132:21: 125:21;126:18,20, 140:15:144:10: 22.24 152:15;164:7,18; sodium (7) 166:7;171:20;177:4; 76:11,12;93:15,18; 181:14;184:14; 158:9,11,22 185:14;187:2;188:13; **SOE (10)** 190:21;199:1;209:2 25:22,25;26:1; sort (70) 28:16,20;29:2,4,13, 0:9;12:14;16:14,16; 25:39:4 17:19,25;18:4,6,12, soft (1) 24;22:3,14;30:15; 22:14 31:21;32:11,13;33:9, soil (3) 21;34:8;36:5;37:1,12; 30:20;135:18; 38:2;40:15;43:4; 191:20 44:16;45:20;57:21; solely (3) 61:24;64:15;69:22; 46:8,13;164:21 71:19,22,23;77:24; solid (3) 90:8;91:1,7;92:12; 27:10;76:13;192:25 93:11;106:8;107:17, solids (1) 25;111:20,23;112:25; 115:24;116:3;117:13, 140:19 soluble (1) 14,15;121:3;126:17; 148:16;151:23; 76:9

154:11,12;157:6; 161:2,7;185:21; 186:18,19;187:23; 188:10;199:17,18; 201:11:202:24; 203:13 sorts (2) 30:11:89:24 sound (2) 118:18:189:17 sounded (1) 123:21 Sounds (7) 85:25;132:9; 136:18,20;140:4; 157:17;177:2 sour (1) 167:18 source (12) 76:18;107:10; 114:16:121:3,19; 128:20:141:25:144:5: 152:18;160:7;170:5; 178:11 sourced (2) 137:13,15 sources (14) 76:17;114:25; 117:4;126:14;134:4; 140:15,24;143:1; 144:4;145:1,3;163:6; 167:23.25 sov (1) 100:21 sovbean (1) 163:23 sovbeans (2) 50:15;163:23 space (8) 69:11:145:12; 146:14;168:12; 192:22;200:21;203:3, 23 speak (3) 14:19;154:16; 165:17 **SPEAKER (6)** 24:14;131:25; 132:2;182:5,8,11 speaking (3) 36:11:55:25:94:22 spear (1) 32:17 spearheaded (1) 49:23 special (1) 0:23 specialized (3) 51:14;174:22; 177:14 specializes (1) 65:2 specialty (2)

species (5) 103:4:139:2.4; 159:17:173:15 specific (23) 7:21;11:25;12:3; 17:4;28:12;30:13; 31:7,10:32:22,22; 38:11;50:23;52:7; 56:10:58:24:97:8: 99:3,10;113:7;134:9; 166:1;169:20;170:21 specifically (10) 15:25;18:10;75:23; 91:19;112:17;134:15; 162:4;164:8;165:3; 171:9 specifics (3) 11:16;31:12;125:21 specified (1) 44:21 speed (1) 172:1 spell (3) 31:9,11,11 spend (6) 47:3;130:11; 178:24;187:25;193:6; 197:8 spending (1) 195:11 spent (2) 132:13:197:12 sphere (1) 42:7 spirit (3) 19:14;43:15;70:22 spit (1) 154:17 split (1) 0:9 spoken (1) 115:18 sports (1) 122:21 **spot** (2) 120:3;135:19 sprayed (2) 45:22;47:2 spread (3) 22:7;190:8;191:11 spreads (1) 169:6 spring (6) 96:2;103:18; 201:11;202:10; 203:12;204:3 sprout (1) 184:10 stability (1) 92:23 stabilization (1) 141:24

14,20,22,24;88:1,3,5,

Burke Court Reporting & Transcription (973) 692-0660 (31) situations - stabilization

Spring 2024 Meeting				May 15, 2024
stabilized (2)	started (7)	115:7,14;132:7;	69:9	succession (1)
169:11;204:23	8:15;20:13;57:24;	139:23,24;145:23;	stuff (4)	16:15
stabilizer (3)	73:19;101:17;133:1;	149:4,19;150:20,23;	22:14;145:2;178:7;	sudden (1)
126:7;158:19;	186:2	154:8;155:6;166:24;	201:20	177:1
167:14	starter (1)	175:3;180:10;184:4;	sub (1)	sufficiency (1)
stabilizers (1)	100:23	199:12;203:14;207:4,	16:1	169:17
159:23	starting (5)	4	SUBCOMMITTEE (41)	sufficient (6)
stable (3)	33:18;113:19;	stole (1)	0:17,22;7:7;8:17;	40:7;100:10;
15:7;101:9,11	126:18;129:9;193:21	74:1	9:4;15:18;23:17;	125:25;135:25;168:8;
staff (4)	starts (6)	stood (1)	32:20;51:12;73:14,	170:2
113:10;122:3,9;	33:4;81:25;86:9;	149:20	20,22,24;74:6;77:5;	sugar (5)
209:19	87:18;180:16;182:16	stop (1)	79:1;80:12;81:22;	92:22;117:22;
staffing (2)	state (15)	100:21	83:6;85:18;86:7;	122:22;123:2;148:2
11:5;13:17	9:18;18:23;20:10,	stopping (2)	87:15;93:6;100:9;	suggest (5)
stage (1)	11;37:24;38:1,16;	69:15;70:1	109:6;129:3;132:7;	13:8;90:1;111:24;
179:12	50:6;59:5;91:17;	storage (2)	138:15;148:20,22;	112:4;178:23
stake (1)	127:21;138:1;149:18;	74:16;147:21	149:24;152:19;	suggesting (4)
156:4	160:19;201:15	storied (1)	170:12;171:12;	14:21;46:20;47:4;
stakeholder (7)	state-by-state (2)	73:4	173:21;182:6,13;	155:17
96:1;110:20;	18:5,13	stories (1)	184:5,24;186:1;	suggestion (1)
127:12;139:10;	stated (8)	51:1	196:21	179:4
169:16;175:11;	27:11;76:16;	storms (1)	subcommittees (3)	suggestions (1)
177:20	100:24;128:3,5;	55:20	0:7;92:6,12	63:11
stakeholders (18)	139:21;142:13;160:7	story (4)	subcommittee's (3)	suitable (5)
7:22;28:12;69:22;	statement (1)	63:14;111:12;	10:1;68:25;78:8	159:13;160:12;
77:20;90:3;93:8;	163:21	122:17;166:23	subject (2)	169:17;170:2,2
107:25;113:8;115:8;	statements (2)	straightforward (3)	56:12,18	suite (2)
134:23;139:14,19;	28:7;48:17	84:25;156:8;192:17	submit (1)	29:23;30:12
141:3;145:14;160:11;	states (5)	strategic (1) 48:1	34:8	suited (2)
163:1;168:8;175:18 staking (1)	36:20,21;39:6; 41:18;127:5	strategically (1)	submitted (1) 107:4	8:16;40:23 suiting (1)
186:20	stating (1)	71:9	subsequent (1)	52:18
stalled (1)	127:23	strategies (1)	168:6	sulfate (8)
111:22	status (4)	103:11	subsidizing (2)	76:10;133:14,18,
stand (1)	57:9;91:22;150:6;	strategize (1)	194:6,6	19;147:2,5;156:7,10
118:20	151:12	92:12	substance (20)	sulfuric (2)
standard (7)	stay (4)	strategy (2)	33:12;77:13;78:9;	156:19;157:25
25:18;31:17,18;	7:3;13:25;103:23;	27:14:37:6	84:20;90:7;92:7;	sum (1)
145:21;163:13,13;	168:24	strayed (1)	129:4,8,10,12,13;	14:4
186:6	steaming (1)	195:4	131:22;136:4;138:16;	summarize (3)
standards (17)	162:13	stream (4)	139:12;141:1;142:2;	19:2;28:10;196:20
7:9;48:7;51:3;52:7;	stem (1)	99:14;145:9;	144:16;160:10;	summarized (1)
96:5;128:25;134:11,	7:13	188:19,19	166:10	166:15
12;137:20,21;156:20,	step (9)	streams (1)	substances (24)	summarizes (1)
23;158:1,25;159:1;	15:2;35:4;68:10;	160:6	13:1;31:3;33:24;	31:21
162:21;163:8	108:17;111:23,24;	strictly (1)	45:4;74:10;95:14,17;	summarizing (1)
standpoint (1)	113:17;129:9;142:9	190:13	96:6,11;97:8;100:3,	95:24
135:23	stepped (1)	stroke (1)	14;101:5,5;103:3,5;	summary (5)
stands (1)	9:16	65:21	104:15;126:1;130:25;	14:16;30:15;33:22;
28:3	steps (8)	strong (4)	139:7;162:22;173:22;	91:7;96:1
staple (1)	33:21;35:5;55:17;	112:14,14;142:24;	175:7,11	summer (2)
101:11	56:2;119:6,7;159:20;	198:21	substitute (1)	132:10;171:11
starkly (1)	162:10 States (1)	structure (1)	169:5	Sunset (44)
38:15 start (21)	Stetson (1) 208:25	12:18 structures (1)	subtle (1) 15:5	61:12;89:3,12,17; 90:4,10,15,22;93:14;
0:8;8:22;15:3,9;	208:25 stick (1)	134:8	succeed (1)	90:4,10,15,22;93:14; 95:5;96:6;100:13;
23:18;33:7;36:17;	61:14	struggling (1)	13:11	104:16,16;110:4;
37:19;68:14;73:7;	sticking (3)	145:23	success (6)	114:5;120:12;125:14;
79:3;80:16;83:10;	0:6;204:2;207:5	struvite (1)	18:11;26:1;174:2;	128:18;129:24;130:6;
89:17;95:13;97:24;	still (30)	158:19	186:19;188:11;	131:4;133:13;135:7;
107:20;113:11;	17:22;18:19;20:24;	studies (1)	208:15	136:15;138:9;140:11;
129:12;185:20;	53:14;57:4;65:24;	159:2	successful (1)	141:15;143:7;147:1;
190:11	72:1,4,14;111:22;	studying (1)	68:9	148:17,20;152:20;

154:14,14;157:14; 45:21 survival (1) 158:11:159:9:161:14: 167:7:169:1:172:17, 109:15 25:173:13 Sunsets (10) 74:3;95:25,25; 99:23;173:3,9;184:7, 12,18;197:9 super (3) 7:1;115:23;121:18 188:23 supplement (3) 126:6;141:21;162:1 189:2 supplementation (2) 137:8;156:17 40:10 supplements (4) sweet (2) 93:24;133:24; 138:13,22 supplies (2) 85:3 160:12;169:17 supply (20) 104:8 15:2;25:6,10;26:2; swing (1) 30:5;32:23;114:12; 189:1 119:20,23;120:11; swings (1) 147:17;170:2,6; 49:8 176:6;183:23;188:8, switch (2) 17;189:14,19;193:15 support (33) switched (1) 8:15,23;9:2,8;11:3; 172:12 13:4,9,16,17;15:1; sword (1) 18:7;19:13;23:15; 178:18 41:9;71:6,23;90:8; 202:4 96:5:112:14.14: 113:10:114:23; 115:12,18;122:13; 139:10:141:8:159:4; 162:25;168:18; 175:10;192:2;198:23 supported (4) 94:2;110:19;136:9; 148:23 Supporting (2) 10:12;105:2 supportive (1) 145:14 supposed (2) 30:8;61:8 syrup (1) sure (40) 85:3 11:15;12:19,25; syrups (1) 16:7;17:11;26:25; 104:8 31:13,19;34:14,20,20; system (22) 35:1,10,17:38:19; 42:19;45:6;47:2;56:7; 70:5;71:10;92:13; 107:22,24;113:22; 116:1;126:11;132:14; 146:5;148:25;152:25; 153:17;164:25; 166:21;170:13;171:4, systems (2) 13;177:25;178:12; 192:19 surprised (2) 176:20;177:1 table (9)

suspended (2) 140:19;174:6 sustainability (2) 163:7;189:6 sustainable (4) 176:4,13;177:22; sustainably (1) sweeping (1) 158:8,12 sweetener (1) sweeteners (1) 147:4;198:2 synthesize (1) synthetic (30) 33:8,10;37:12,16; 79:2:81:24:111:11: 123:22,23;128:7; 129:8,10,12,17,18; 130:18;132:14;134:7; 137:12,13;138:2,2; 142:10,10;143:10; 144:16:159:11.13: 160:16:168:3 synthetics (4) 130:21;140:13; 158:14;172:8 13:2:28:8:29:8; 33:11;35:9;36:24; 39:19;45:23;46:19; 48:9;49:12;52:20,25; 56:3;67:24;68:18,24; 154:19;190:7;191:14; 195:6;206:17 29:21;55:19 Т

24:21:97:20,22; 98:25:184:25:189:12: 204:8,9:208:13 tabled (1) 205:17 tablet (1) 138:17 tableting (1) 138:17 tablets (2) 138:12,21 tabs (1) 95:18 tackling (2) 8:10;71:7 tag (1) 30:16 talent (1) 195:9 talk (33) 0:12:16:13:21:13, 14;55:16;57:5;73:7,9, 10,10;75:19;77:19; 95:13;106:25;107:17; 110:9;112:16;118:10; 122:24;124:15; 133:20;135:12,16; 146:12,14,20;155:1, 25;173:5;185:5; 188:18:200:19; 204:18 talked (12) 15:17:21:24:54:11, 16:69:7:112:21: 115:19;121:11;122:9; 136:3;140:21;170:12 talking (13) 45:7;66:11;69:12; 114:20;122:4;135:10; 188:21;193:24;194:5, 11,24;196:10,10 talks (1) 11:23 tangential (1) 118:5 tap (4) 43:10;135:24; 141:3;156:15 tapping (1) 65:14 TAPs (1) 101:17 targeting (2) 32:22;65:20 taste (2) 92:24;145:24 teach (1) 195:6 team (6) 30:16:61:15: 119:12;204:7;207:24, 25 teas (1)

167:13 teased (1) 108:4 tech (1) 8:15 technical (11) 96:4,17;97:7,13,23, 25:138:14:145:3; 173:20;175:9;177:8 technique (1) 51:13 techniques (3) 50:14;58:14;59:12 technologically (1) 206:15 technologies (2) 98:4,6 technologists (2) 134:17;136:5 technology (2) 99:2;108:14 teeing (1) 29:20 telling (3) 25:24;58:13;74:1 temper (1) 15:20 temperature (1) 134:9 template (7) 90:25:91:25:92:8; 94:7,14,22;107:14 ten (1) 125:11 ten- (1) 104:22 tend (1) 125:4 tenderizer (1) 126:8 tension (2) 12:11,14 term (4) 13:18;17:1;49:20; 205:9 terms (16) 29:5;30:18;32:17, 21;36:4,5;49:12;60:6; 102:24,24;106:7; 109:8;111:23;176:23, 24;204:13 territory (1) 195:5 test (14) 12:23;27:12;31:2; 32:12;37:13;38:19; 40:5;42:20;44:15; 45:10,11,17;46:13; 154:21 testers (1) 42:24 testimony (1) 70:20

- Vol. 5 May 15, 2024

TESTING (58) 25:5.10.20:26:8.15. 19:27:9.15.16:29:7. 19,20;30:10,19;31:9, 25;32:25;33:23;34:3, 12,17,19;36:21; 38:25;39:8,21,22,22, 23;40:5,8,9,13;41:4,7, 8,9,12,15,20,22;42:7, 12,19,24;43:2,11; 44:13;45:15;46:6,22; 48:8;150:17;175:15, 17,19,20;183:23 tests (10) 31:2,2,5,7,20;32:14, 22;34:21;42:11;46:9 texture (1) 143:21 texturizer (2) 126:8;167:14 thankful (1) 27:24 Thanks (74) 0:6,18;9:3;10:24; 14:13,13;15:22; 16:11,22;19:19; 20:13,16;22:1,18; 28:14;36:2;39:14,24; 40:24;43:18;44:19; 46:15;47:8;49:23; 50:4:58:5:59:25: 68:16.20.22:69:4: 73:12,12,13;75:12; 88:23;92:1;93:9; 105:13,19,23,24; 106:19;109:11;111:6; 113:5;117:8;118:15; 119:9;120:22;121:21; 128:12;131:8;132:4; 136:12:138:11; 141:13:142:18.21: 145:16,19;146:25; 157:18;158:8;166:18; 167:6;171:5,15; 172:22;173:2,6; 179:3;187:5;189:24 that'll (1) 132:10 theme (3) 14:20;35:12;69:23 themes (1) 10:12 theoretically (1) 19.9 therefore (2) 85:7;98:13 thermal (1) 144:6 thickener (2) 126:7;167:14 thickening (1) 173:23 thinking (21)

Min-U-Script®

surveyors (1)

Burke Court Reporting & Transcription (973) 692-0660

(33) Sunsets - thinking

17:5,7:19:12:32:13; 13:11 36:10:39:20:44:17: 70:4;95:1;122:18; 123:20:185:20: 186:13;187:6,15,22; 197:23;198:14;200:5; throw (2) 202:8.15 third (5) 9:13;46:8;127:6; 187:4 133:19,20 third-(1) 59:4 62:12 third-party (2) 46:6;163:7 timely (2) Thomas (1) 109:7 times (6) thorough (3) 105:24;110:10; 166:11 time's (1) thoroughly (3) 95:10:193:22; timing (5) 200:15 though (8) 37:22;54:20;60:15; tiny (1) 64:16;113:1;130:4; 193:3 178:20;200:9 tissue (1) thought (19) 30:21 8:16;12:17;28:6; tissues (1) 46:20;51:12;63:9; 144:3 67:16:68:3:71:9.19; titled (4) 75:16:105:19:106:4; 118:4:143:2:172:12: 194:3;200:7;202:21 thoughtful (3) 105:2,5,25 thoughtfully (1) 9:17 today (7) thoughts (8) 16:20;28:16;36:16; 42:9;72:21;90:20; 94:18;117:10 threats (1) 17:25 three (36) 0:7,19,25,25;9:8, 25;13:9;20:24;21:6, 10,15;44:19;45:5; 50:18;54:8;55:13; 56:9;67:8;75:5;93:20; told (1) 95:13,17,20,25;96:8; 61:24 99:23:100:13:101:18: 126:13,13;139:4; 33:14 168:23:193:6:199:23, Tolle (1) 24;207:12 50:5 three-day (1) tomato (1) 204:12 68:2 three-year (3) ton (1) 12:22,23;13:1 162:8 thresholds (1) tons (2) 12:15 threw (1) took (5) 118:19 thrive (1)

tool (8) through-line (2) 15:9:17:23:25:20: 14:20:16:4 29:14,21;44:18; throughout (2) 49:17,20 22:3;69:23 toolkit (3) 15:3;110:12;112:9 48:2:157:7 tools (4) 37:14:49:19:118:1, thumbs (1) 22 till-type (1) top(3)21:18;56:9;101:20 timeline (2) topic (17) 9:5:22:18:25:12.13: 199:9:205:19 29:19;34:25;38:9; 9:5:39:16 46:16;49:10;90:20; 108:10;113:7;128:21; 48:5;57:22;121:24; 186:24;188:9;194:1; 122:1;154:12;202:23 200:17 topics (8) 133:20 7:9,11;8:13;34:15; 35:8:38:10:197:1; 116:2,3;152:16: 198:2 154:11;202:15 **TOPP** (27) 9:9,15,20;11:14; 12:6;13:6,9;15:14; 16:3;17:8;19:11,20, 21;20:17;22:8,11,20; 60:19;62:7;69:7;70:3; 71:24;200:18,22; 201:3,8:208:2 95:21,22,25;99:23 total (6) tobacco (1) 103:2:104:24: 117:22 105:3,6;136:8;141:7 tocopherols (11) totally (1) 64:10 159:7,9,10,14,16, 18,21;160:4,13,14,24 touch (1) 13:25 0:8;74:11;116:5; touched (1) 122:24:128:21: 16:15 132:22:151:3 tough (4) together (22) 21:7,7;55:21;59:18 10:19;16:5;19:8,8, toward (3) 17;47:11;57:11,14; 10:18;16:10;150:17 64:20;75:7,19; towards (1) 109:22;122:3;124:2; 92:6 149:16;157:8;167:10; toxic (5) 186:14;187:20; 163:16;175:15,19; 196:13,17;208:4 178:7,14 toxicity (1) 137:22 tolerance (1) TR (59) 76:16,21;85:9; 90:23,25;91:1,25; 92:8;94:7,14,22; 95:13,20,22;98:11,17; 99:7,24;100:1,9,12, 24;101:15,16,20,23; 103:3,13;104:11,19; 111:13,14;112:1; 175:2,3 125:18,20,25;126:8, 12,17,23;127:10,16; 41:20:99:17; 134:14;135:22,25; 122:23;144:8;184:4 139:7;141:1;144:12;

149:5:156:15:160:1, 8;161:3,16;162:23; 165:4,8:167:11; 184:22 traceability (1) 99:15 track (1) 106:6 tracking (2) 29:8;61:25 tractor (1) 190:9 trade (6) 27:22;37:19,22,25; 42:3;110:20 trading (3) 89:25;93:3;128:25 traditional (1) 147:23 train (2) 11:13:64:21 trained (1) 194:18 training (1) 13:10 transfer (1) 21:12 transform (1) 116:4 transformed (1) 32:9 transition (39) 7:15:8:23:9:2.6.8; 10:3.4:12:22.24:13:1. 5,17;15:1;17:4;18:3; 19:12;23:16;52:20, 20,23,24,25;53:12,19, 22;54:12,25;55:3; 57:7,9,17,23;60:18; 69:8:97:6:102:13; 109:24:183:25:198:3 transitional (1) 57:12 transitioning (2) 9:11,21 translated (1) 43:7 transparency (3) 26:2,9;58:7 transportation (1) 193:8 trash (1) 44:15 travels (1) 208:16 treated (1) 123:2 treating (1) 157:24 treatment (1) 144:6 tree (4) 32:10;33:25;

107:20;175:16 tremendous (1) 20:1trial (1) 198:5 tricalcium (1) 78:2 tricky (1) 171:3 tried (2) 166:13;209:8 trigger (4) 46:11;50:24,25; 51:2 trona (5) 125:22;126:21,22, 24;128:13 tropical (1) 74:14 **TRs (3)** 91:16;95:19;101:17 true (3) 78:10;153:14; 164:14 truly (1) 108:17 trust (9) 10:15;11:24;12:5,8; 17:14,15;28:8; 194:18:208:14 Trusted (1) 28:5 try (15) 42:5:64:20:107:21: 113:10,19;146:4; 150:16;151:3;154:21; 173:8:178:11:191:23: 193:22;201:8;209:19 trying (28) 15:19:18:20:28:19; 35:3;37:18,19;40:18; 42:5,14:48:2:59:9,12: 65:25;73:2,6;89:15; 106:15;109:19;117:9; 121:16;123:14; 124:24;132:13;149:3; 165:9;192:9;198:20; 201:19 Tucker (11) 9:19;11:11;25:24; 41:3:43:20:204:5: 205:20;207:15,19,23; 209:3 tuna (1) 158:20 turn (7) 0:14;8:24;14:9; 35:25;69:2;73:14; 203:6 TURNER (28) 24:8;36:2;59:25;

(34) third - TURNER

62:12;79:17;81:2;

82:9;83:17;86:15;

- Vol. 5 May 15, 2024

Spring 2024 Meeting	1		1	May 15, 2024
87:21;110:6;111:8,	121:1;123:17	38:25;39:1;44:1,17;	97:9,11;98:23;99:5;	174:14
10;113:21,24;114:6;	Undaria (1)	46:1;47:7,9;48:11,12,	100:18;102:9,11,23;	utilizing (2)
117:6;119:19,23;	173:13	23;49:3;51:3,11;55:7,	104:20;106:11;107:7;	125:22;126:21
153:20;165:21;	under (19)	12,16,23;56:14;	110:25;112:18;	UW (1)
178:20;180:17;	9:22;17:2,17;57:11;	58:18;67:16;68:6,23;	113:15;115:2;120:1;	117:14
183:16;186:23;187:2,	85:8,9;93:11;134:9,	69:8;71:13;72:14;	130:15;135:1,18,20;	11/.11
6;197:7	11;135:19,19;137:20;	73:7;84:16;89:1;	136:1;137:3;138:12,	V
turnout (1)	147:18;149:10;	91:23;92:17;94:23;	20;139:20;140:15;	•
7:22	156:15,20;166:9,10;	96:1;101:16;108:10;	141:10,21;142:7,25;	vacuum (1)
turns (1)	184:20	110:8;115:4,5;122:9;	144:15,17;148:8;	131:4
129:14	underpinned (2)	129:14;132:10;	149:9;153:16;156:21;	valid (1)
twenty-fourth (1)	95:19;101:17	133:18;136:7,14;	157:19;159:14;	27:12
207:25	underscores (1)	139:24;140:9;141:14;	160:21;162:7;165:5,	validated (2)
two (30)	130:11	144:14;147:3;148:17;	6;167:11;168:14;	31:10,12
0:7;62:23;67:2,6;	underserved (1)	152:2;153:12;157:1,	170:7;171:24;174:2,	validating (1)
75:6,13;93:10;95:24;	16:23	12;161:13;165:17;	3;175:24;178:11	29:21
102:5;104:2;110:7;	undertaking (1)	166:8,25;168:13,25;	used (81)	valley (1)
128:2;131:13;146:5;	106:2	170:18,20,24;171:10;	28:17;32:5;36:23;	68:4
147:4;150:3;167:22;	undesirable (2)	172:1;178:10;179:16,	74:21;76:4;77:13;	valuable (2)
172:23;173:3,5,9;	102:19;157:2	21;185:16;186:25;	85:3;89:20,23;91:8;	11:8;32:7
175:11,12;178:22,23;	unfair (1)	187:4,21,21;191:8,9;	92:21,22;93:1,1,24;	value (11)
187:19;192:11;194:7;	195:24	192:14;195:25;197:5;	97:7,16;98:24;99:5,	21:3,8,13,14,23;
198:13;206:22	unfortunately (1)	198:16,22;200:10;	11,20;100:3,14,18,20;	27:19;35:2;47:11;
two- (1)	70:24	201:17;204:14,15,16;	101:7;102:4,7,11,14,	70:23;100:12;102:17
129:8	unhealthy (1)	205:5;208:7	15,20;103:12;104:7;	vantage (1)
twofold (2)	117:21	upcoming (1)	110:13;125:4,19;	14:11
26:9;106:24	UNIDENTIFIED (6)	68:21	126:4,5;127:3,24;	variations (1)
tying (1)	24:14;131:25;	update (4)	128:8,22;129:7;	159:22
17:20	132:2;182:5,8,11	30:2;90:25;135:23;	131:1;133:23;134:24;	varieties (1)
type (6)	unique (3)	183:20	135:1,14,20;137:3;	178:6
31:2;54:4;134:7;	77:15;112:8;207:7	updated (5)	138:16,22;140:17;	variety (4)
154:20;167:1;168:14	unit (1)	47:20;58:25;96:4;	141:19,23;142:2,15;	133:24;140:23;
types (15)	57:12	97:1;135:21	143:11,12;144:21;	143:24;159:16
31:2,5,20;32:14,14,	United (1)	updates (3)	149:19;150:11;	various (4)
15;33:19,19,20;	41:18	33:23;42:16;50:13	156:25;158:15;	104:17;138:23;
45:22;71:13;113:15;	units (2)	updating (1)	159:25;160:5,20;	150:22;174:9
165:6;170:25;192:12	50:9;56:24	35:10	161:19,25;162:2;	vary (2)
typically (4)	universities (1)	upon (1)	167:12,13;169:4,13,	103:23;145:1
45:22;102:18;	20:5	45:2	14,23;171:1;173:22;	veg (1)
104:11;142:8	unless (6)	uptake (1)	174:11;178:15	202:20
U	7:2;16:19;89:6; 97:6;123:24;205:12	55:23 urban (1)	useful (3)	vegan (1) 85:3
U	unlikely (1)	11:17	15:19;62:10;134:10	
ultimately (2)	127:11	urge (1)	usefulness (1) 32:21	vegetable (10) 66:7,10,17,23;67:1;
162:14;191:13	unpack (5)	195:8	users (1)	140:14;157:2;159:12;
umbrella (1)	34:24;107:21;	urged (1)	115:16	140.14,157.2,159.12, 174:4,10
184:21	129:20;131:6;161:3	148:4	uses (8)	vegetables (4)
unable (2)	unpackage (1)	urgency (1)	97:21;98:18;99:9;	117:1;135:17;
46:7;85:5				
,	27.4	27.3	$104 \cdot 18 \cdot 158 \cdot 14 \cdot$	148.3.159.18
unanimous (1)	27:4 unnacked (1)	27:3 urges (1)	104:18;158:14;	148:3;159:18 vegetative (2)
unanimous (1) 60:6	unpacked (1)	urges (1)	161:17;168:11;	vegetative (2)
60:6	unpacked (1) 53:1	urges (1) 139:10	161:17;168:11; 174:21	vegetative (2) 140:15,23
60:6 unavailable (1)	unpacked (1) 53:1 unquote (1)	urges (1) 139:10 usage (1)	161:17;168:11; 174:21 using (21)	vegetative (2) 140:15,23 vent (1)
60:6 unavailable (1) 97:3	unpacked (1) 53:1 unquote (1) 121:3	urges (1) 139:10 usage (1) 158:14	161:17;168:11; 174:21 using (21) 37:15,16;54:11;	vegetative (2) 140:15,23 vent (1) 20:18
60:6 unavailable (1) 97:3 unbelievable (1)	unpacked (1) 53:1 unquote (1) 121:3 unsure (1)	urges (1) 139:10 usage (1) 158:14 USDA (12)	161:17;168:11; 174:21 using (21) 37:15,16;54:11; 59:3;77:9;86:2;100:4,	vegetative (2) 140:15,23 vent (1) 20:18 verbal (1)
60:6 unavailable (1) 97:3	unpacked (1) 53:1 unquote (1) 121:3	urges (1) 139:10 usage (1) 158:14	161:17;168:11; 174:21 using (21) 37:15,16;54:11;	vegetative (2) 140:15,23 vent (1) 20:18
60:6 unavailable (1) 97:3 unbelievable (1) 204:9 unclear (2)	unpacked (1) 53:1 unquote (1) 121:3 unsure (1) 199:13	urges (1) 139:10 usage (1) 158:14 USDA (12) 7:14;10:2,17;11:6,	161:17;168:11; 174:21 using (21) 37:15,16;54:11; 59:3;77:9;86:2;100:4, 6,16;104:12;112:17;	vegetative (2) 140:15,23 vent (1) 20:18 verbal (1) 104:24
60:6 unavailable (1) 97:3 unbelievable (1) 204:9	unpacked (1) 53:1 unquote (1) 121:3 unsure (1) 199:13 untreated (1)	urges (1) 139:10 usage (1) 158:14 USDA (12) 7:14;10:2,17;11:6, 13;12:16;13:14;	161:17;168:11; 174:21 using (21) 37:15,16;54:11; 59:3;77:9;86:2;100:4, 6,16;104:12;112:17; 115:6,7;119:16;	vegetative (2) 140:15,23 vent (1) 20:18 verbal (1) 104:24 verification (6)
60:6 unavailable (1) 97:3 unbelievable (1) 204:9 unclear (2) 113:12;156:1	unpacked (1) 53:1 unquote (1) 121:3 unsure (1) 199:13 untreated (1) 85:10	urges (1) 139:10 usage (1) 158:14 USDA (12) 7:14;10:2,17;11:6, 13;12:16;13:14; 15:19,25;16:5;	161:17;168:11; 174:21 using (21) 37:15,16;54:11; 59:3;77:9;86:2;100:4, 6,16;104:12;112:17; 115:6,7;119:16; 127:25;150:21;	vegetative (2) 140:15,23 vent (1) 20:18 verbal (1) 104:24 verification (6) 25:20;26:8,10;
60:6 unavailable (1) 97:3 unbelievable (1) 204:9 unclear (2) 113:12;156:1 uncomfortable (1)	unpacked (1) 53:1 unquote (1) 121:3 unsure (1) 199:13 untreated (1) 85:10 up (104)	urges (1) 139:10 usage (1) 158:14 USDA (12) 7:14;10:2,17;11:6, 13;12:16;13:14; 15:19,25;16:5; 110:14;144:4	161:17;168:11; 174:21 using (21) 37:15,16;54:11; 59:3;77:9;86:2;100:4, 6,16;104:12;112:17; 115:6,7;119:16; 127:25;150:21; 153:15;155:3,7;	vegetative (2) 140:15,23 vent (1) 20:18 verbal (1) 104:24 verification (6) 25:20;26:8,10; 32:18;52:23;128:10
60:6 unavailable (1) 97:3 unbelievable (1) 204:9 unclear (2) 113:12;156:1 uncomfortable (1) 117:24	unpacked (1) 53:1 unquote (1) 121:3 unsure (1) 199:13 untreated (1) 85:10 up (104) 0:11;8:20;9:16;	urges (1) 139:10 usage (1) 158:14 USDA (12) 7:14;10:2,17;11:6, 13;12:16;13:14; 15:19,25;16:5; 110:14;144:4 use (64)	161:17;168:11; 174:21 using (21) 37:15,16;54:11; 59:3;77:9;86:2;100:4, 6,16;104:12;112:17; 115:6,7;119:16; 127:25;150:21; 153:15;155:3,7; 175:16;193:10	vegetative (2) 140:15,23 vent (1) 20:18 verbal (1) 104:24 verification (6) 25:20;26:8,10; 32:18;52:23;128:10 verified (3)
60:6 unavailable (1) 97:3 unbelievable (1) 204:9 unclear (2) 113:12;156:1 uncomfortable (1) 117:24 uncooked (1) 158:18 uncured (5)	unpacked (1) 53:1 unquote (1) 121:3 unsure (1) 199:13 untreated (1) 85:10 up (104) 0:11;8:20;9:16; 11:21;13:5,11;14:4,	urges (1) 139:10 usage (1) 158:14 USDA (12) 7:14;10:2,17;11:6, 13;12:16;13:14; 15:19,25;16:5; 110:14;144:4 use (64) 15:9;17:8;18:20;	161:17;168:11; 174:21 using (21) 37:15,16;54:11; 59:3;77:9;86:2;100:4, 6,16;104:12;112:17; 115:6,7;119:16; 127:25;150:21; 153:15;155:3,7; 175:16;193:10 usually (3)	vegetative (2) 140:15,23 vent (1) 20:18 verbal (1) 104:24 verification (6) 25:20;26:8,10; 32:18;52:23;128:10 verified (3) 28:5,8;128:1 verify (1) 127:18
60:6 unavailable (1) 97:3 unbelievable (1) 204:9 unclear (2) 113:12;156:1 uncomfortable (1) 117:24 uncooked (1) 158:18	unpacked (1) 53:1 unquote (1) 121:3 unsure (1) 199:13 untreated (1) 85:10 up (104) 0:11;8:20;9:16; 11:21;13:5,11;14:4, 24;15:23;21:7;22:15;	urges (1) 139:10 usage (1) 158:14 USDA (12) 7:14;10:2,17;11:6, 13;12:16;13:14; 15:19,25;16:5; 110:14;144:4 use (64) 15:9;17:8;18:20; 44:18;58:1;60:14;	161:17;168:11; 174:21 using (21) 37:15,16;54:11; 59:3;77:9;86:2;100:4, 6,16;104:12;112:17; 115:6,7;119:16; 127:25;150:21; 153:15;155:3,7; 175:16;193:10 usually (3) 134:8;138:25;157:2	vegetative (2) 140:15,23 vent (1) 20:18 verbal (1) 104:24 verification (6) 25:20;26:8,10; 32:18;52:23;128:10 verified (3) 28:5,8;128:1 verify (1)

29:21:30:4:44:13 Vermont (1) 68:2 Vernon (1) 64:11 version (2) 85:3:110:2 versions (4) 121:1;129:18,25; 150:21 versus (8) 54:17:65:22:71:9; 124:16;161:1,4; 168:16;200:8 veterans (1) 149:1 via (3) 114:10,13;127:18 viability (2) 111:21;144:20 viable (1) 10:13 **VICE (41)** 0:18:14:8:22:17; 23:11;24:17;25:7; 35:7;38:7;39:3;47:8; 48:21;49:2;57:1;58:5, 22:60:12:64:23:67:3, 18;68:20;70:13,16; 72:17.20:73:13: 79:25;81:8;82:15; 83:23:86:21:88:2: 166:7,19:180:21; 182:19:189:9:190:21. 25:191:19:196:19: 208:25 **view (8)** 22:22;30:6;38:15; 47:9;60:6;71:2,12; 204:21 viewed (1) 101:12 viewpoint (2) 7:18;53:23 views (1) 72:17 violations (1) 194:18 virtual (1) 206:11 virtually (1) 198:17 viruses (1) 100:19 viscera (1) 145:2 visit (2) 51:24;52:5 visits (1) 51:20 visuals (1) 135:10 vital (1)

189:3 vitamin (8) 116:23,25;117:2,3; 141:18,25;142:23: 143:1 vitamins (16) 122:22,24;137:1, 24:147:1.5,6,9,13: 148:6;149:5,11,18; 150:1:156:14.16 vocab (1) 128:14 vocal (1) 72:9 voice (2) 48:14;189:16 voiced (2) 69:12,18 voices (11) 7:4,21,24,25,25; 26:24;27:19;48:18; 189:14,20;199:10 volume (4) 40:20;90:14;92:23; 102:24 voluntarily (1) 64:14 vote (26) 16:8:23:14:24:20; 78:23,25;79:3;80:16; 81:21,25;83:10;86:5, 6.9:87:18:154:4.4.6: 179:9,15:180:16; 182:3:183:24:184:2. 21:186:8:203:7 voted (2) 74:11;94:14 votes (14) 24:18;75:18;78:24; 80:7;81:17;83:1; 84:11;87:11;88:19; 179:14:181:24; 183:17;203:5;204:1 voting (9) 8:24;23:18;180:16; 181:11,15;182:16; 203:9,24;206:23 vouch (1) 20:1 vulnerabilities (1) 27:16 vulnerability (1) 155:7 W wages (1) 187:16 wait (4) 72:8:105:21: 129:22;184:13 waiting (1) 61:17

wakame (6) 172:24;173:1,12, 16:175:22:176:9 walk (1) 69:3 walking (2) 105:19;131:10 wants (5) 116:8;120:13; 164:1;165:7;194:4 war (1) 37:19 washed (1) 169:9 Washington (5) 17:14;18:8,16,23; 38:1 waste (3) 30:21;160:6;162:9 watch (1) 201:23 watching (3) 28:20;29:1,13 water (7) 10:8;30:20;67:22; 135:2;144:15;157:22; 178:7 way (35) 7:23;22:24;27:12; 28:24;30:12;32:16; 40:5,14:44:16:59:21; 61:25:64:4:69:14: 95:12:101:25:107:5: 111:12:112:8.15: 117:16;123:5;127:6; 132:15;149:6;156:5; 168:1,3:176:4; 177:22;188:23; 196:14;200:11;205:2; 206:7:207:7 ways (11) 43:10:63:5:97:15; 109:17,19;116:19.20; 126:4,13,20;186:6 weak (1) 69:9 weakening (1) 78:16 weakness (3) 36:22;37:3,20 weather (1) 49:9 web (2) 22:9:41:10 website (3) 65:1,6;185:2 weed (3) 192:6,8,9 weeds (2) 47:23:52:4 week (1) 208:6 weeks (3)

69:24;206:8,8 weigh (3) 117:23;123:9; 151:10 weighing (2) 203:2,14 weird (1) 93:10 Welcome (7) 0:7:41:2:72:16; 91:24;132:25;151:17; 165:7 welfare (5) 124:15;186:3,6,11, 21 well- (1) 66:8 well-deserved (1) 205:23 well-developed (2) 40:5:91:11 well-known (2) 100:20:186:15 weren't (1) 170:13 West (2) 200:23,24 what- (1) 18:18 what's (11) 12:21:15:16:26:6; 43:4:69:19.20:70:1: 72:15:108:1;121:20; 153:10 whatsoever (1) 195:25 wheat (2) 30:9:192:24 whenever (1) 155:13 Whereupon (1) 209:22 wherever (2) 108:14;178:9 whipped (1) 38:17 white (2) 7:8;193:11 whole (25) 43:9;51:8,10;58:21; 62:25:64:25:65:2,6, 21;102:22;108:9,10, 16;110:21;117:16; 120:23;122:5,6; 130:9,13;182:3; 192:24;193:10,25; 194:3 wholesale (1) 69:21 whomever (1) 42:18 whooped (1) 58:18

who's (7) 12:18:29:1:62:1: 71:11:119:2:155:15: 195:5 whose (1) 174:19 who've (2) 115:18;188:1 why's (1) 155:23 wide (3) 102:23;167:12; 168:11 widely (10) 89:20;92:20;93:1,2; 102:4,14;141:19; 142:15;160:20; 169:23 widely-used (1) 126:5 wiggle (1) 123:12 wild (4) 102:23;145:20,21; 163:14 willing (3) 9:4;46:21;203:10 win (1) 122:10 wind (1) 55:21 wine (2) 136:2.2 winemaking (1) 128:24 wines (2) 136:10;167:13 wink (1) 125:10 wins (1) 25:24 wiped (1) 68:5 Wisconsin (1) 64:12 wish (2) 66:25;67:20 withdrew (2) 148:22:152:21 within (14) 7:6;21:17;31:15; 43:17:54:21:60:18; 70:3:97:13.20:98:25: 106:8;111:19;130:13; 175:12 without (9) 8:18;74:8;96:24; 105:9;121:14;146:17; 194:5;195:25;198:19 wonder (2) 40:25:154:15 wondered (4) 64:4;185:19;198:8;

Spring 2024 Meeting				Way 15, 2024
208:19	122.20.150.0.166.20.	Vor (1)	Zeemland (1)	89:4
	122:20;150:9;166:20;	Yay (1)	Zoomland (1)	
Wonderful (4)	184:6;192:17;196:13;	207:21	207:5	20,000 (1)
25:7;134:1;179:18;	202:25	year (16)	2	9:20
189:10	works (5)	7:23;9:5;13:22;	0	2000s (1)
wonderfully (1)	18:22;33:5;69:8;	20:24;45:22;49:22;		152:12
105:24	153:25;154:1	50:11;55:4;56:13;	01 (1)	2006 (1)
wondering (5)	workstream (1)	65:1;74:3;123:8;	175:3	96:19
14:18;39:19;58:19;	187:13	131:12;166:9;184:15;	17515	2007 (1)
78:3;186:4	world (10)	199:15	1	114:10
			1	
Wood (21)	40:12;62:21;72:3;	years (31)		2010s (1)
24:7;36:1;56:15;	124:18,19;133:17;	0:25;9:25;13:9;	1/2 (1)	152:3
59:24;79:16;81:1;	149:5,15;188:5,6	18:23;20:14,24;21:6,	144:13	2011 (5)
82:8;83:16;86:14;	world's (1)	11,15,17;25:14;	1:45 (1)	47:20;136:24;
87:20;111:6;113:5;	175:3	43:22;45:5;54:20;	132:23	148:19,22;152:18
118:18;119:21;	worldwide (1)	73:2;97:4;106:14;	10:39 (1)	2012 (3)
152:10;153:19;179:3;	137:4	108:24;114:14;	73:17	149:25;150:5;
180:16;183:15;	worms (1)	148:13;152:7;175:1;	10:50 (1)	152:14
186:22;197:6	133:17	176:23;195:6;204:11,	73:16	2012s(1)
,				
woods (1)	worried (1)	11,12,12;206:4,4,4	10:51 (1)	154:11
36:25	125:1	yeast (31)	73:17	2014 (1)
Wood's (3)	worries (1)	94:24;95:6;96:3,7,	104.20 (1)	103:3
109:25;191:6;197:5	78:16	10,20,23,25;97:2,12;	147:11	2015 (6)
Woods's (1)	worry (4)	98:19;99:25;100:2,	10th (2)	17:16;111:13;
189:25	154:22;155:6;	19,25;102:6,7,9,11,	208:7,9	112:1;160:1;161:16;
woo-hoo (3)	178:8,14	14,18,20,23;103:4,8,	12 (1)	162:23
0:6;199:3;207:3	worst (1)	19,20,22;105:6,7;	96:19	2016 (5)
· · · ·	154:21	135:1		111:14;112:1;
word (9)			12:15 (2)	
59:17,21;60:14;	worth (4)	yeast- (1)	125:9;132:22	149:23;173:20;175:9
128:14;165:24;	68:7;179:1;195:11;	138:25	13 (4)	2017 (2)
170:17;179:17,20;	196:7	yeasts (3)	51:23;105:6;	76:2;77:22
189:5	wow (1)	97:19;103:6,21	110:18,18	2018 (1)
words (1)	121:8	yesterday (3)	14 (1)	138:15
180:5	wrap (2)	8:13;133:16;208:10	95:18	2019 (5)
work (66)	28:12;67:16	yesterday's (1)	15 (2)	103:18;148:18;
0:12;7:12,18,21;	wrestle (1)	90:25	105:4;193:21	150:25;152:18;
8:10,19;11:14;12:8;	18:20	yield (9)	16 (4)	167:11
15:13;19:8;22:8;	wrestled (1)	50:25;53:6,6,21;	100:8;104:24,25;	2020 (2)
30:17;32:19;33:16;	94:25	54:25;57:13;66:12,	105:3	158:23;178:21
34:17;41:21;42:23;	write (2)	16;190:8	17 (1)	2021 (2)
43:16;44:10;46:19;	42:10;202:1	yields (15)	112:12	104:19;175:2
47:10;48:11;49:23;	write- (1)	50:24;51:1;52:12,	176 (1)	2022 (3)
50:1;52:6;53:3;57:25;	88:25	14;53:19,19;54:2,9,	162:8	75:20;98:5,9
60:1,16,16;61:7,16;	writers (1)	13,19;55:11;57:12;	18 (1)	2023 (7)
62:19;63:3,4;64:20;	125:21	65:18;66:11;191:11	175:2	95:20,21;100:24;
65:9,9;68:25;72:15;	write-up (1)	yield's (1)	19 (1)	101:20;103:13;
	125:19	190:5		101.20,103.13, 104:10;163:9
88:25;92:7,8,11,13;			104:24	
95:1;99:19;106:3;	writing (2)	yogurt (1)	1995 (2)	2025 (1)
117:14,17;119:3;	51:10;65:4	100:20	96:15;136:23	100:8
129:3,24;130:13;	written (12)	yogurts (1)	1996 (2)	2026 (23)
178:21;179:10;	8:1;50:16;52:13;	167:18	96:16,16	74:4;89:12;93:14;
183:20,22;185:2,22;	53:18:57:3:66:9;	Yup (3)		104:16;110:4;114:5;
186:4;187:13;189:18;	74:25;104:24;105:4,	110:6;132:21;	2	125:14;128:18;
196:23;197:3;208:15	7;107:3;112:12	171:21		133:13;135:7;136:15;
workaround (2)	wrong (2)		2 (6)	138:9;140:11;141:15;
	151:10;184:14	Z		
58:6,6			56:9;58:10,16,25;	143:7;147:1;157:14;
worked (2)	WTO (7)		59:22;61:18	158:11;159:9;161:14;
195:5;203:22	37:5,22,25;38:2,3,	zapper (1)	2,000 (2)	167:7;169:1;172:25
working (25)	15,23	192:8	148:21;152:20	2027 (1)
10:19,20;11:8,10,		Zero (5)	2.0 (2)	74:5
24;13:22;16:5;18:6,	Y	81:18;83:2;84:12;	13:6;22:25	205.2 (2)
15;19:16;20:7;46:21;		87:12;88:20	20 (3)	98:3,13
			8:19;162:6;192:24	205.204a (1)
47.5.65.12.67.24	vards(1)			
47:5;65:12;67:24; 68:5;117:16;119:13;	yards (1) 110:22	Zoom (2) 207:5,21	20- (1)	85:9

Spring 2024 Meeting			
305 5041 5 (1)	52.10		[
205.504b5 (1)	53:10		
44:23	44 (2)		
205.605 (3)	162:5,7		
76:1;135:19;139:12	440 (1)		
205.605a (4)	175:3		
125:17;128:20;	~		
136:24;138:13	5		
205.605b (10)			
75:23;80:14;83:8;	5 (4)		
136:24;137:2;140:13;	40:8;41:8;97:22;		
141:18;143:10;	171:10		
158:13;159:11	50 (1)		
205.606 (4)	7:25		
87:16;161:16;			
167:9;173:19	6		
205.606b (1)			
143:16	6 (1)		
205.670 (1)	98:25		
44:22	605 (2)		
20-naughts (1)	90:9;126:11		
152:2	605a (6)		
21 (1)	129:5,17,22,24;		
147:10	130:25;161:1		
23 (1)	605b (5)		
101:22	111:11;129:17,23,		
24 (1)	24;161:1		
205:22	606 (7)		
25 (3)	114:8,9;118:6,20;		
8:19;13:22;115:20	120:7;171:21;172:9		
2610 (1)	65 (2)		
30:6	54:4;96:13		
2611-1 (2)	54.4,90.15		
31:24;45:8	7		
2613 (1)	/		
32:24	70 (1)		
28th (1)	77:1		
208:10	//.1		
200.10	8		
3	0		
5	80 (1)		
3 (4)	68:7		
11:23;56:23;	823 (3)		
144:13,14	59:19;61:20;192:15		
3:04 (1)	85 (4)		
179:13	53:11,14;54:4;		
3:15 (1)	164:25		
179:8	104.23		
3:17 (1)	9		
179:13	7		
300 (2)	0.00 (1)		
	9:00 (1)		
46:25;47:1 35 (1)	0:2		
35 (1) 193:1	9:27:03 (1)		
	24:14		
36 (1) 51:25	90 (1)		
51:25	173:25		
1	95 (1)		
4	77:1		
4 (2)			
4 (2)			
97:20;144:13			
4:01 (1)			
209:22			
40 (1)			
		I	L