

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy/regulations or NOSB recommendations. Proposals must be voted on by the full Board, to become recommendations to the USDA. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

Livestock Subcommittee (LS) Notes
Tuesday, August 18, 2026 3:00 pm ET

Present: Nate Lewis (NL), Chair; Franklin Quarcocoo (FQ); Kathryn Deschenes (KD); Cat McCluskey (CM)

Absent: Corie Pierce (CP), Vice Chair

Staff: Michelle Arsenault (MA); Jo Mirenda (JM); Heather Kumar (HK)

Agenda

- Review August 4, 2026 notes
- Integrating livestock and agroforestry crops discussion doc (CP) - discuss/vote
- 2028 sunset: Activated charcoal (CM) - discuss/vote
- Additional Items
 - Ivermectin work agenda request and proposal.
- Adjourn

Discussion

- **August 4, 2026 notes** were accepted as written.
- **Integrating livestock and agroforestry crops discussion doc (CP/NL).** The lead introduced the changes made to the document since the last discussion, and the group had a brief discussion. The group discussed grazing rules and how that intersects with this work. The LS is seeking additional feedback from stakeholders.

Motion to accept the discussion document on Integrating livestock and agroforestry crops

Motioned by: NL

Seconded by: CM

Yes: 4 No: 0 Abstain: 0 Recuse: 0 Absent: 1

- **2028 sunset: Activated charcoal (CM).** The lead summarized the sunset review, highlighting uses and concerns from public comments. The Subcommittee is supportive of relisting activated charcoal and moved to a vote.

Motion to remove activated charcoal at § 205.603(a)(6)

Motioned by: CM

Seconded by: KD

Yes: 0 No: 4 Abstain: 0 Recuse: 0 Absent: 1

- **Additional Items.**
 - **Ivermectin** work agenda request and proposal (NL). The Livestock Subcommittee has been discussing a work agenda item for ivermectin, which has been identified as an effective treatment for New World Screwworm (NWS). The NOSB recommended the removal of ivermectin from the National List (NL) in 2016, and the Board is proposing to add it back with an annotation to narrow its use. The Board is aware that a stakeholder group intends on submitting a new petition to add it back to the NL as well, and the Livestock Subcommittee is interested in initiating work on this immediately. The LS Chair/lead author has submitted the written work agenda request and is seeking approval from the Executive Team and NOP later today.

The group discussed several aspects of the ivermectin proposal including withholding times

post-use, which is 90 days, change in necessity, and use in other species besides dairy animals. Members were supportive of the proposal and moved to a vote.

Motion to add Ivermectin (CAS #70288-86-7), for the treatment of New World Screwworm (*Cochliomyia hominivorax*) only—milk or milk products from a treated animal cannot be labeled as approved for in subpart D of this part for 90 days following treatment at 205.603(a)(23)(iii)

Motioned by: NL

Seconded by: FQ

Yes: 4 No: 0 Abstain: 0 Absent: 0 Recuse: 1

- The Subcommittee will discuss a possible work agenda request for swine during one of its September calls.

- **The meeting was adjourned.**

[Previous LS Notes](#)

Future call schedule (1st and 3rd Tuesdays 3:00 PM ET | 12:00 PM PT, except where noted)

August 4, 2026

Integrating livestock and agroforestry crops discussion doc (CP) - discuss

2028 sunset: Chlorine materials (FQ) - discuss/vote

2028 sunset: Sodium chlorite, acidified (FQ) - discuss/vote

August 18, 2026

2028 sunset: Activated charcoal (CM) - discuss/vote

Integrating livestock and agroforestry crops discussion doc (CP) - discuss/vote

September 1, 2026

Work agenda request - swine

September 15, 2026

October 6, 2026

October 20, 2026

November 3, 2026

November 17, 2026

December 1, 2026

December 15, 2026

Work Agenda

*Highlight indicates discussion. *Highlight indicates action needed. *Highlight indicates review completion and/or vote.

Petitioned Substances

Substance	National List	Contact	Doc Type	Notes	Scheduled/status	Target meeting
Aquaculture Substances				On hold. (See NOSB Work agenda for additional information.)	TBD	TBD

Other Projects

Project	Contact	Notes	Scheduled/ status	Target meeting
Integrating livestock and agroforestry crops - Discussion Doc	CP/NL	Approved by Exec Cmmte 3.19.25, and NOP 4.16.25	7.21.26 8.4.26 8.18.26	Fall 2026
Research Priorities	NL	Fall 2026 list due to MS July 24, 2026.	7.21.26	Fall 2026
Ivermectin - addition to 205.603(a)(23)(iii)	NL	Work agenda request approved by Exec Cmmte and NOP August 18, 2026	8.18.26	Fall 2026

2028 Sunset Review

TR Requests (June 2025), Summary (Spr 2026), Review (Fall 2026)

Previous Sunset Recommendations: [2021/Fall - Rec to Renew](#)

Previous Rule/Renewals: [04/14/2023, 88 FR 22893](#)

Substance	National List	Contact	TR Request?	Notes*	Scheduled/ status	Target meeting
Activated charcoal	205.603(a)(6)	CM	N	Sunset date: 5/29/2028 2024 TR (Handling) 2021 TR 2002 TAP	8.18.26	Summary: Spr 2026 Review: Fall 2026
Calcium borogluconate	205.603(a)(7)	CP	N	Sunset date: 5/29/2028 2015 TR (Electrolytes) 2000 TAP	6.16.26	" "
Calcium propionate	205.603(a)(8)	CP	N	Sunset date: 5/29/2028 2015 TR (Electrolytes) 2002 TAP	6.16.26	" "
Chlorine materials: Calcium hypochlorite	205.603(a)(10)(i)	FQ	Y - Lmt'd Scope	Sunset date: 5/29/2028 2026 Lmt'd Scope TR 2006 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26. TR deemed sufficient 2.3.26.	8.4.26	" "
Chlorine materials: Chlorine dioxide	205.603(a)(10)(ii)	FQ	Y - Lmt'd Scope	Sunset date: 5/29/2028 2026 Lmt'd Scope TR 2006 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26. TR deemed sufficient 2.3.26.	8.4.26	" "

Substance	National List	Contact	TR Request?	Notes*	Scheduled/status	Target meeting
Chlorine materials: Hypochlorous acid - generated from electrolyzed water.	205.603(a)(10)(iii)	FQ	Y - Lmt'd Scope	Sunset date: 5/29/2028 2026 Lmt'd Scope TR 2017 Lmt'd Scope TR (hypochlorous acid) 2006 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26. TR deemed sufficient 2.3.26.	8.4.26	" "
Chlorine materials: Sodium hypochlorite	205.603(a)(10)(iv)	FQ	Y - Lmt'd Scope	Sunset date: 5/29/2028 2026 Lmt'd Scope TR 2006 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26. TR deemed sufficient 2.3.26.	8.4.26	" "
Kaolin pectin	205.603(a)(17)	KD	N	Sunset date: 5/29/2028 2021 TR 2002 TAP	7.21.26	" "
Mineral oil	205.603(a)(20)	KD	N	Sunset date: 5/29/2028 2021 Lmt'd Scope TR 2015 TR 2002 TAP	7.21.26	" "
Nutritive supplements	205.603(a)(21)	NL	Y - Lmt'd scope on ex-cipients	Sunset date: 5/29/2028 2026 TR 2024 Lmt'd Scope TR (vitamins) 2019 TR (trace minerals) 2015 TR (electrolytes) Draft TR due late Dec 2025. Draft TR sent to LS 12.17.25. TR sufficiency due 2.15.26. TR found sufficient 1.20.26.	6.16.26	" "
Propylene glycol	205.603(a)(27)	NL	N	Sunset date: 5/29/2028 2021 TR 2007 TAP	6.16.26	" "
Sodium chlorite, acidified	205.603(a)(28) and 205.603(b)(9)	FQ	Y - Lmt'd scope	Sunset date: 5/29/2028 2026 Lmt'd Scope TR 2013 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26. TR deemed sufficient 2.3.26.	8.4.26	" "
Zinc sulfate	205.603(b)(11)	NL	N	Sunset date: 5/29/2028 2015 TR	6.16.26	" "

2029 Sunset Review

TR Requests (June 2026), Summary (Spr 2027), Review (Fall 2027)

Previous Sunset Recommendations: [2022/Fall - Rec to Renew \(2024 LS Sunsets\)](#)

Previous Rule/Renewals: [04/14/2023, 88 FR 22893](#)

Substance	National List	Lead	TR Request?	Notes*	Schedule d/ status	Target meeting
Chlorhexidine (CAS # 55-56-1)	205.603(a)(9)	FQ	Y Lmt'd scope	Sunset date: 01/28/2029 2015 TR 1999 TAP	4.7.26 6.2.26	Summary: Spr 2027 Review: Fall 2027
Glucose	205.603(a)(13)	CM	N	Sunset date: 10/30/2029 2022 TR 1995 TAP	4.7.26 5.19.26	" "
Copper sulfate	205.603(b)(1)	NL	Y Lmt'd scope	Sunset date: 10/30/2029 2015 TR 1995 TAP	4.7.26 6.2.26	" "
Elemental sulfur	205.603(b)(2)	CP	Y - Combined with CS	Sunset date: 01/28/2029 2017 TR	4.7.26 6.2.26	" "
Lidocaine	205.603(b)(5)	KD	Y	Sunset date: 01/28/2029 TR: None	4.7.26 5.19.26	" "

Fall 2026 Milestones	Target dates (tentative)	Weeks PTM (prior to meeting)
NOP - Publish FRN, Open public comment	~May 21, 2026	24
NOP - Draft Fall 2026 NOSB meeting agenda	Aug 11, 2026	~11
NOSB - Fall 2026 proposals due to NOP	Aug 20, 2026	~9
NOP - Post proposals/Open comment period	Aug 31, 2026	~8
Public comment closes	Oct 1, 2026	~4
NOP - Send compiled public comments to NOSB	Oct 7, 2026	~3
Public comment webinars	Oct 20 & 22, 2026	1
Fall 2026 NOSB meeting - Virtual	Oct 27 - 29, 2026	0
Final recommendations due	Nov 28, 2026	~30 days post meeting

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Livestock Subcommittee (LS) Notes
Tuesday, August 4, 2026 3:00 pm ET

Present: Nate Lewis (NL), Chair; Corie Pierce (CP), Vice Chair Franklin Quarcoo (FQ); Kathryn Deschenes (KD); Cat McCluskey (CM)

Absent: Heather Kumar (HK)

Staff: Michelle Arsenault (MA); Jo Mirenda (JM)

Agenda

- Review July 21, 2026 notes
- Integrating livestock and agroforestry crops discussion doc (CP) - discuss
- 2028 sunset: Chlorine materials (FQ) - discuss/vote
- 2028 sunset: Sodium chlorite, acidified (FQ) - discuss/vote
- Additional Items
- Adjourn

Discussion

- **July 21, 2026 notes** were accepted as written.
- **Integrating livestock and agroforestry crops discussion doc (CP/NL).** The group discussed the draft document, which is focused on updates to the [NOP guidance 5025](#). Members posed several questions and discussed the difference between grazing animals vs. manure applications, the connection between 205.203(c) and NOP guidance 5025, risk assessments, and the [FDA regulations on produce safety](#). The lead will modify the document based on the conversation and feedback from NOP regarding citations to OFPA and Organic Regulations. The LS will vote on the document on the next call.
- **2028 sunset: Chlorine materials (FQ).** The lead summarized the chlorine materials reviews as a group and the LS voted on each substance individually. The lead for the Handling chlorine substances noted that while mostly similar, each has a different use, and it was helpful to highlight the differences. Chlorine is essential to the industry for cleaning and sanitizing, especially given food safety requirements. Members discussed safety protocols and best practices to mitigate any environmental or health issues. A member indicated that scale-of-operation is a factor when choosing which chlorine material to use. The LS members support relisting and moved to the votes.

Motion to remove calcium hypochlorite at § 205.603(a)(10)(i)

Motion by: FQ

Seconded by: KD

Yes: 0 No: 5 Abstain: 0 Recuse: 0 Absent: 0

Motion to remove chlorine dioxide at § 205.603(a)(10)(ii)

Motion by: FQ

Seconded by: CP

Yes: 0 No: 5 Abstain: 0 Recuse: 0 Absent: 0

Motion to remove hypochlorous acid at § 205.603(a)(10)(iii)

Motion by: FQ

Seconded by: CM

Yes: 0 No: 5 Abstain: 0 Recuse: 0 Absent: 0

Motion to remove sodium hypochlorite at § 205.603(a)(10)(iv)

Motion by: FQ

Seconded by: KD

Yes: 0 No: 5 Abstain: 0 Recuse: 0 Absent: 0

- **2028 sunset: Sodium chlorite, acidified (FQ).** The lead summarized sodium chlorite along with the chlorine materials above. A member highlighted the main difference, which is that acidified sodium chlorite is used in direct contact with livestock. Members are supportive of relisting.

Motion to remove sodium chlorite, acidified at § 205.603(a)(28) and 205.603(b)(9)

Motion by: FQ

Seconded by: KD

Yes: 0 No: 5 Abstain: 0 Recuse: 0 Absent: 0

- **Additional Items.**
 - Staff from FDA are available and willing to meet with the Livestock Subcommittee to talk more about treatments for New World Screwworm. The LS will extend an invitation to them for a future Subcommittee call.
- **The meeting was adjourned.**

[Previous LS Notes](#)

Future call schedule (1st and 3rd Tuesdays 3:00 PM ET | 12:00 PM PT, except where noted)

July 21, 2026

2028 sunset: Kaolin pectin (KD) - discuss/vote

2028 sunset: Mineral oil (KD) - discuss/vote

Research Priorities (All) - discuss list, forward to MS

August 4, 2026

Integrating livestock and agroforestry crops discussion doc (CP) - discuss

2028 sunset: Chlorine materials (FQ) - discuss/vote

2028 sunset: Sodium chlorite, acidified (FQ) - discuss/vote

August 18, 2026

2028 sunset: Activated charcoal (CM) - discuss/vote

Integrating livestock and agroforestry crops discussion doc (CP) - discuss/vote

September 1, 2026

September 15, 2026

October 6, 2026

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Work Agenda

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TR Requests (June 2025), Summary (Spr 2026), Review (Fall 2026)

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Livestock Subcommittee (LS) Notes

Tuesday, July 7, 2026 3:00 pm ET

Present: Nate Lewis (NL), Chair; Franklin Quarcoo (FQ); Kathryn Deschenes (KD); Cat McCluskey (CM)

Absent: Corie Pierce (CP), Vice Chair

Staff: Michelle Arsenault (MA); Jo Mirenda (JM); Heather Kumar (HK)

Agenda

- Review June 16, 2026 notes
- Update and Discussion - Pork Production Work Agenda Item: Research Priorities, NWSW, Parasiticides
- Discussion and Question Development - Develop questions for FDA/APHIS regarding NWSW and available tools for organic producers to respond.
- Additional Items
- Adjourn

Discussion

- **June 16, 2026 notes were accepted as written.**
- **Agroforestry.** The co-leads met to talk about ideas for the project and the LS will review and discuss the draft document on the next call.
- **Update and Discussion - Pork Production Work Agenda Item: Research Priorities, New World Screw Worn (NWSW), Parasiticides.** The lead introduced this multi-faceted idea for combining several topics into one.
 - The LS is exploring ideas for a new work agenda item to elucidate barriers to organic pork production. This topic is already on the NOSB Research Priorities, and the LS could explore the specific barriers related to 1. Nutrition (e.g. amino acids), 2. Parasiticides (e.g. in response to NWSW), and 3. Processing infrastructure challenges.
 - The LS discussed the threat of NWSW to organic livestock, and what role the Board can play in identifying solutions and tools for organic producers. The group discussed stakeholder need, the effectiveness of currently allowed substances, emergency use allowances, and status of current outbreak. There are external industry discussions about petitioning to add ivermectin back on to the National List (NL) to address NWSW. There are also discussions about whether moxidectin could be allowed or effective for NWSW treatment in livestock. The LS is interested in requesting more information from the FDA and will send written questions to NOP to share with FDA and APHIS.
 - The NOP asked for clarification about whether these are two different work agenda items. The lead noted that the work agenda item would be focused on pork production, and they are seeking to link NWSW and parasiticides with the project on pork.
 - Members discussed whether the LS has capacity to take on a new project. They were supportive of proposing the work agenda item and re-assessing capacity when new members are appointed.
- **Additional items.** None.
- **The meeting was adjourned.**

[Previous LS Notes](#)

Future call schedule (1st and 3rd Tuesdays 3:00 PM ET | 12:00 PM PT, except where noted)

June 16, 2026

2028 sunset: Calcium borogluconate (CP) - discuss/vote
 2028 sunset: Calcium propionate (CP) - discuss/vote
 2028 sunset: Nutritive supplements (NL) - discuss/vote
 2028 sunset: Propylene glycol (NL) - discuss/vote
 2028 sunset: Zinc sulfate (NL) - discuss/vote

July 7, 2026

Integrating livestock and agroforestry crops discussion doc (CP) - discuss
 Follow up about livestock, pork production guest speakers for September (NL)

July 21, 2026 - Cat out

2028 sunset: Kaolin pectin (KD) - discuss/vote
 2028 sunset: Mineral oil (KD) - discuss/vote
 Integrating livestock and agroforestry crops discussion doc (CP) - discuss
 Research Priorities (All) - discuss list, forward to MS

August 4, 2026

2028 sunset: Chlorine materials (FQ) - discuss/vote
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August 18, 2026

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November 17, 2026

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Substance	National List	Contact	TR Request?	Notes*	Scheduled/ status	Target meeting
Mineral oil	205.603(a)(20)	KD	N	Sunset date: 5/29/2028 2021 Lmt'd Scope TR 2015 TR 2002 TAP	7.21.26	" "
Nutritive supplements	205.603(a)(21)	NL	Y - Lmt'd scope on ex-cipients	Sunset date: 5/29/2028 2026 TR 2024 Lmt'd Scope TR (vitamins) 2019 TR (trace minerals) 2015 TR (electrolytes) Draft TR due late Dec 2025. Draft TR sent to LS 12.17.25. TR sufficiency due 2.15.26. TR found sufficient 1.20.26.	6.16.26	" "
Propylene glycol	205.603(a)(27)	NL	N	Sunset date: 5/29/2028 2021 TR 2007 TAP	6.16.26	" "
Sodium chlorite, acidified	205.603(a)(28) and 205.603(b)(9)	FQ	Y - Lmt'd scope	Sunset date: 5/29/2028 2026 Lmt'd Scope TR 2013 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26. TR deemed sufficient 2.3.26.	8.4.26	" "
Zinc sulfate	205.603(b)(11)	NL	N	Sunset date: 5/29/2028 2015 TR	6.16.26	" "

2029 Sunset Review

TR Requests (June 2026), Summary (Spr 2027), Review (Fall 2027)

Previous Sunset Recommendations: [2022/Fall - Rec to Renew \(2024 LS Sunsets\)](#)

Previous Rule/Renewals: [04/14/2023, 88 FR 22893](#)

Substance	National List	Lead	TR Request?	Notes*	Schedule d/ status	Target meeting
Chlorhexidine (CAS # 55-56-1)	205.603(a)(9)	FQ	Y Lmt'd scope	Sunset date: 01/28/2029 2015 TR 1999 TAP	4.7.26 6.2.26	Summary: Spr 2027 Review: Fall 2027

Substance	National List	Lead	TR Request?	Notes*	Schedule d/ status	Target meeting
Glucose	205.603(a)(13)	CM	N	Sunset date: 10/30/2029 2022 TR 1995 TAP	4.7.26 5.19.26	" "
Copper sulfate	205.603(b)(1)	NL	Y Lmt'd scope	Sunset date: 10/30/2029 2015 TR 1995 TAP	4.7.26 6.2.26	" "
Elemental sulfur	205.603(b)(2)	CP	Y - Combined with CS	Sunset date: 01/28/2029 2017 TR	4.7.26 6.2.26	" "
Lidocaine	205.603(b)(5)	KD	Y	Sunset date: 01/28/2029 TR: None	4.7.26 5.19.26	" "

Fall 2026 Milestones	Target dates (tentative)	Weeks PTM (prior to meeting)
NOP - Publish FRN, Open public comment	~May 21, 2026	24
NOP - Draft Fall 2026 NOSB meeting agenda	Aug 11, 2026	~11
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Fall 2026 NOSB meeting - Virtual	Oct 27 - 29, 2026	0
Final recommendations due	Nov 28, 2026	~30 days post meeting

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy/regulations or NOSB recommendations. Proposals must be voted on by the full Board, to become recommendations to the USDA. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

Livestock Subcommittee (LS) Notes

Tuesday, June 16, 2026 3:00 pm ET

Present: Nate Lewis (NL), Chair; Corie Pierce (CP), Vice Chair; Franklin Quarcoo (FQ); Kathryn Deschenes (KD); Cat McCluskey (CM)

Absent: None

Staff: Michelle Arsenault (MA); Jo Mirenda (JM); Heather Kumar (HK)

Agenda

- June 2, 2026 notes
- 2028 sunset: Calcium borogluconate (CP) - discuss/vote
- 2028 sunset: Calcium propionate (CP) - discuss/vote
- 2028 sunset: Nutritive supplements (NL) - discuss/vote
- 2028 sunset: Propylene glycol (NL) - discuss/vote
- 2028 sunset: Zinc sulfate (NL) - discuss/vote
- Additional Items
- Adjourn

Discussion

- **June 2, 2026 notes** were accepted as written.
- **2028 sunset: Calcium borogluconate (CP).** The lead summarized both calcium borogluconate and calcium propionate together, as they are similar. Commenters were supportive of relisting, although one commenter mentioned the lack of a withdrawal period. A member noted that calcium borogluconate doesn't have a withdrawal time in either organic or conventional, and if it did in conventional, then organic would typically have a lengthier time. The group also discussed the last TR, which was from 2015, and whether calcium borogluconate is a redundant listing with electrolytes? The lead emphasized the importance of keeping it on the list because it can be administered by injection, unlike electrolytes.

Motion to remove calcium borogluconate at § 205.603(a)(7)

Motion by: CP

Seconded by: NL

Yes: 0 No: 5 Abstain: 0 Recuse: 0 Absent: 0

- **2028 sunset: Calcium propionate (CP).** See discussion above.

Motion to remove calcium propionate at § 205.603(a)(8)

Motion by: CP

Seconded by: NL

Yes: 0 No: 5 Abstain: 0 Recuse: 0 Absent: 0

- **2028 sunset: Nutritive supplements (NL).** The lead summarized the review of injectables nutritive supplements. There is some redundancy with other supplements on the list, however, the lead noted that injectables likely get more oversight than other orally administered substances on the list. The group discussed the importance of retaining nutritive supplements and moved to a vote.

Motion to remove nutritive supplements at § 205.603(a)(21)

Motion by: NL

Seconded by: CP

Yes: 0 No: 5 Abstain: 0 Recuse: 0 Absent: 0

- **2028 sunset: Propylene glycol (NL).** Propylene glycol is used to treat a different set of symptoms as calcium borogluconate. It is primarily used to treat ketosis, which is an acute, life threatening condition. For the most part ketosis is controlled through diet, and this substance would be used in emergencies, and remains necessary for animal welfare. There was widespread support for its continued listing. The Subcommittee asked a question at the spring meeting about use of excluded methods that went unanswered.

Motion to remove propylene glycol at § 205.603(a)(27)

Motion by: NL

Seconded by: CP

Yes: 0 No: 5 Abstain: 0 Recuse: 0 Absent: 0

- **2028 sunset: Zinc sulfate (NL).** The lead noted the use of zinc sulfate as a hoof treatment. Commenters indicated that producers rotate between zinc and copper sulfate to treat hoof conditions, which seem to have the same effectiveness. Having alternatives is important. Zinc sulfate was newly added to the National List in 2019, so this is the first sunset review.

Motion to remove zinc sulfate at § 205.603(b)(11)

Motion by: NL

Seconded by: CM

Yes: 0 No: 5 Abstain: 0 Recuse: 0 Absent: 0

- **Additional items.** None.
- **The meeting was adjourned.**

[Previous LS Notes](#)

Future call schedule (1st and 3rd Tuesdays 3:00 PM ET | 12:00 PM PT, except where noted)

May 19, 2026

Post-meeting debrief

Determine TR needs for 2029 sunsets

June 2, 2026 (KD, CM out)

Determine TR needs for 2029 sunsets

Schedule discussion dates for 2028 sunsets and other work agenda items

June 16, 2026

2028 sunset: Calcium borogluconate (CP) - discuss/vote

2028 sunset: Calcium propionate (CP) - discuss/vote

2028 sunset: Nutritive supplements (NL) - discuss/vote

2028 sunset: Propylene glycol (NL) - discuss/vote

2028 sunset: Zinc sulfate (NL) - discuss/vote

July 7, 2026

Integrating livestock and agroforestry crops discussion doc (CP) - discuss

Follow up about livestock, pork production guest speakers for September (NL)

July 21, 2026

Research Priorities (All) - discuss list, forward to MS

2028 sunset: Kaolin pectin (KD) - discuss/vote

2028 sunset: Mineral oil (KD) - discuss/vote

August 4, 2026

Integrating livestock and agroforestry crops discussion doc (CP) - discuss

2028 sunset: Chlorine materials (FQ) - discuss/vote

2028 sunset: Sodium chlorite, acidified (FQ) - discuss/vote

August 18, 2026

Integrating livestock and agroforestry crops discussion doc (CP) - discuss/vote

2028 sunset: Activated charcoal (CM) - discuss/vote

September 1, 2026

September 15, 2026

October 6, 2026

October 20, 2026

November 3, 2026

November 17, 2026

December 1, 2026

December 15, 2026

Work Agenda

*Highlight indicates discussion. *Highlight indicates action needed. *Highlight indicates review completion and/or vote.

Petitioned Substances

Substance	National List	Contact	Doc Type	Notes	Scheduled/status	Target meeting
Aquaculture Substances				On hold. (See NOSB Work agenda for additional information.)	TBD	TBD

Other Projects

Project	Contact	Notes	Scheduled/status	Target meeting
Integrating livestock and agroforestry crops - Discussion Doc	CP/NL	Approved by Exec Cmmte 3.19.25, and NOP 4.16.25	7.7.26 7.21.26 8.4.26	Fall 2026
Research Priorities	NL	Fall 2026 list due to MS July 24, 2026.	7.21.26	Fall 2026

2028 Sunset Review

TR Requests (June 2025), Summary (Spr 2026), Review (Fall 2026)

Previous Sunset Recommendations: [2021/Fall - Rec to Renew](#)

Previous Rule/Renewals: [04/14/2023, 88 FR 22893](#)

Substance	National List	Contact	TR Request?	Notes*	Scheduled/status	Target meeting
Activated charcoal	205.603(a)(6)	CM	N	Sunset date: 5/29/2028 2024 TR (Handling) 2021 TR 2002 TAP	8.18.26	Summary: Spr 2026 Review: Fall 2026

Substance	National List	Contact	TR Request?	Notes*	Scheduled/status	Target meeting
Calcium borogluconate	205.603(a)(7)	CP	N	Sunset date: 5/29/2028 2015 TR (Electrolytes) 2000 TAP	6.16.26	" "
Calcium propionate	205.603(a)(8)	CP	N	Sunset date: 5/29/2028 2015 TR (Electrolytes) 2002 TAP	6.16.26	" "
Chlorine materials: Calcium hypochlorite	205.603(a)(10)(i)	FQ	Y - Lmt'd Scope	Sunset date: 5/29/2028 2026 Lmt'd Scope TR 2006 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26. TR deemed	8.4.26	" "
Chlorine materials: Chlorine dioxide	205.603(a)(10)(ii)	FQ	Y - Lmt'd Scope	Sunset date: 5/29/2028 2026 Lmt'd Scope TR 2006 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26. TR deemed sufficient 2.3.26.	8.4.26	" "
Chlorine materials: Hypochlorous acid - generated from electrolyzed water.	205.603(a)(10)(iii)	FQ	Y - Lmt'd Scope	Sunset date: 5/29/2028 2026 Lmt'd Scope TR 2017 Lmt'd Scope TR (hypochlorous acid) 2006 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26. TR deemed sufficient 2.3.26.	8.4.26	" "
Chlorine materials: Sodium hypochlorite	205.603(a)(10)(iv)	FQ	Y - Lmt'd Scope	Sunset date: 5/29/2028 2026 Lmt'd Scope TR 2006 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26. TR deemed sufficient 2.3.26.	8.4.26	" "
Kaolin pectin	205.603(a)(17)	KD	N	Sunset date: 5/29/2028 2021 TR 2002 TAP	7.21.26	" "
Mineral oil	205.603(a)(20)	KD	N	Sunset date: 5/29/2028 2021 Lmt'd Scope TR 2015 TR 2002 TAP	7.21.26	" "

Substance	National List	Contact	TR Request?	Notes*	Scheduled/ status	Target meeting
Nutritive supplements	205.603(a)(21)	NL	Y - Lmt'd scope on ex-cipients	Sunset date: 5/29/2028 2026 TR 2024 Lmt'd Scope TR (vitamins) 2019 TR (trace minerals) 2015 TR (electrolytes) Draft TR due late Dec 2025. Draft TR sent to LS 12.17.25. TR sufficiency due 2.15.26. TR found sufficient 1.20.26.	6.16.26	" "
Propylene glycol	205.603(a)(27)	NL	N	Sunset date: 5/29/2028 2021 TR 2007 TAP	6.16.26	" "
Sodium chlorite, acidified	205.603(a)(28) and 205.603(b)(9)	FQ	Y - Lmt'd scope	Sunset date: 5/29/2028 2026 Lmt'd Scope TR 2013 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26. TR deemed sufficient 2.3.26.	8.4.26	" "
Zinc sulfate	205.603(b)(11)	NL	N	Sunset date: 5/29/2028 2015 TR	6.16.26	" "

2029 Sunset Review

TR Requests (June 2026), Summary (Spr 2027), Review (Fall 2027)

Previous Sunset Recommendations: [2022/Fall - Rec to Renew \(2024 LS Sunsets\)](#)

Previous Rule/Renewals: [04/14/2023, 88 FR 22893](#)

Substance	National List	Lead	TR Request?	Notes*	Schedule d/ status	Target meeting
Chlorhexidine (CAS # 55-56-1)	205.603(a)(9)	FQ	Y Lmt'd scope	Sunset date: 01/28/2029 2015 TR 1999 TAP	4.7.26 6.2.26	Summary: Spr 2027 Review: Fall 2027
Glucose	205.603(a)(13)	CM	N	Sunset date: 10/30/2029 2022 TR 1995 TAP	4.7.26 5.19.26	" "
Copper sulfate	205.603(b)(1)	NL	Y Lmt'd scope	Sunset date: 10/30/2029 2015 TR 1995 TAP	4.7.26 6.2.26	" "
Elemental sulfur	205.603(b)(2)	CP	Y - Combined with CS	Sunset date: 01/28/2029 2017 TR	4.7.26 6.2.26	" "
Lidocaine	205.603(b)(5)	KD	Y	Sunset date: 01/28/2029 TR: None	4.7.26 5.19.26	" "

Spring 2026 Milestones	Target dates (tentative)	Weeks PTM (prior to meeting)
NOP - Publish FRN, Open public comment	~Jan 24, 2026	16 -20
NOP - Draft Spring 2026 NOSB meeting tentative agenda	Feb 19, 2026	~ 10
NOSB - Spring 2026 proposals due to NOP	Feb 26, 2026	~ 9
NOP - Post proposals/Open comment period	Mar 16, 2026	7.5
Public comment closes	Apr 16, 2026	3.5
NOP - Send compiled public comments to NOSB	Apr 22, 2026	3
Public comment webinars	May 5 & 7, 2026	1
Spring 2026 NOSB meeting - Omaha	May 12 - 14, 2026	0
Final recommendations due	Jun 14, 2026	30 days post meeting

Fall 2026 Milestones	Target dates (tentative)	Weeks PTM (prior to meeting)
NOP - Publish FRN, Open public comment	~May 21, 2026	24
NOP - Draft Fall 2026 NOSB meeting agenda	Aug 11, 2026	~11
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NOP - Post proposals/Open comment period	Aug 31, 2026	~8
Public comment closes	Oct 1, 2026	~4
NOP - Send compiled public comments to NOSB	Oct 7, 2026	~3
Public comment webinars	Oct 20 & 22, 2026	1
Fall 2026 NOSB meeting - Virtual	Oct 27 - 29, 2026 TBD	0
Final recommendations due	Nov 28, 2026	~30 days post meeting

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy/regulations or NOSB recommendations. Proposals must be voted on by the full Board, to become recommendations to the USDA. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

Livestock Subcommittee (LS) Notes

Tuesday, June 2, 2026 3:00 pm ET

Present: Nate Lewis (NL), Chair; Corie Pierce (CP), Vice Chair; Franklin Quarcoo (FQ)

Absent: Kathryn Deschenes (KD); Cat McCluskey (CM)

Staff: Michelle Arsenault (MA); Jo Mirenda (JM); Heather Kumar (HK)

Agenda

- May 19, 2026 notes
- Determine TR needs for 2029 sunsets
- Schedule discussion dates for 2028 sunsets and other work agenda items
- Additional Items
- Adjourn

Discussion

- **May 19, 2026 notes** were accepted as written.
- **Determine TR needs for 2029 sunsets.** The Livestock Subcommittee determined the needs for TRs for the remainder of the 2029 sunsets, with the exception of one substance. The LS is requesting one full TR and 2 limited scope TRs.
- **Schedule discussion dates for 2028 sunsets and other work agenda items.** The LS scheduled discussion dates for its summer work agenda. See table below.
- **Additional items.**
The LS is considering whether to invite speakers to its September call to talk about livestock nutrition and pork production practices. Possible topics of interest include current market demand and production barriers. This topic is currently on the Livestock Research Priorities list as “Elucidate the barriers to increased organic pork and beef production and markets.”
- **The meeting was adjourned.**

[Previous LS Notes](#)

Future call schedule (1st and 3rd Tuesdays 3:00 PM ET | 12:00 PM PT, except where noted)

May 19, 2026

Post-meeting debrief

Determine TR needs for 2029 sunsets

June 2, 2026 (KD, CM out)

Determine TR needs for 2029 sunsets

Schedule discussion dates for 2028 sunsets and other work agenda items

June 16, 2026

2028 sunset: Calcium borogluconate (CP) - discuss/vote

2028 sunset: Calcium propionate (CP) - discuss/vote

2028 sunset: Nutritive supplements (NL) - discuss/vote

2028 sunset: Propylene glycol (NL) - discuss/vote

2028 sunset: Zinc sulfate (NL) - discuss/vote

July 7, 2026

Integrating livestock and agroforestry crops discussion doc (CP) - discuss

Follow up about livestock, pork production guest speakers (NL)

July 21, 2026

Research Priorities (All) - discuss list, forward to MS

2028 sunset: Kaolin pectin (KD) - discuss/vote

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August 4, 2026

2028 sunset: Chlorine materials (FQ) - discuss/vote

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September 1, 2026

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Work Agenda

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Petitioned Substances

Substance	National List	Contact	Doc Type	Notes	Scheduled/ status	Target meeting
Aquaculture Substances				On hold. (See NOSB Work agenda for additional information.)	TBD	TBD

Other Projects

Project	Contact	Notes	Scheduled/ status	Target meeting
Integrating livestock and agroforestry crops - Discussion Doc	CP/NL	Approved by Exec Cmmtte 3.19.25, and NOP 4.16.25	7.7.26 8.4.26	Fall 2026
Research Priorities	All	Fall 2026 list due to MS July 24, 2026.	7.21.26	Fall 2026

2028 Sunset Review

TR Requests (June 2025), Summary (Spr 2026), Review (Fall 2026)

Previous Sunset Recommendations: [2021/Fall - Rec to Renew](#)

Previous Rule/Renewals: [04/14/2023, 88 FR 22893](#)

Substance	National List	Contact	TR Request?	Notes*	Scheduled/ status	Target meeting
Activated charcoal	205.603(a)(6)	CM	N	Sunset date: 5/29/2028 2024 TR (Handling) 2021 TR 2002 TAP	8.18.26	Summary: Spr 2026 Review: Fall 2026

Substance	National List	Contact	TR Request?	Notes*	Scheduled/status	Target meeting
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Calcium propionate	205.603(a)(8)	CP	N	Sunset date: 5/29/2028 2015 TR (Electrolytes) 2002 TAP	6.16.26	" "
Chlorine materials: Calcium hypochlorite	205.603(a)(10)(i)	FQ	Y - Lmt'd Scope	Sunset date: 5/29/2028 2026 Lmt'd Scope TR 2006 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26. TR deemed	8.4.26	" "
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Mineral oil	205.603(a)(20)	KD	N	Sunset date: 5/29/2028 2021 Lmt'd Scope TR 2015 TR 2002 TAP	7.21.26	" "

Substance	National List	Contact	TR Request?	Notes*	Scheduled/ status	Target meeting
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2029 Sunset Review

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Substance	National List	Lead	TR Request?	Notes*	Schedule d/ status	Target meeting
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Copper sulfate	205.603(b)(1)	NL	Y Lmt'd scope	Sunset date: 10/30/2029 2015 TR 1995 TAP	4.7.26 6.2.26	" "
Elemental sulfur	205.603(b)(2)	CP	Y - Combine d with CS	Sunset date: 01/28/2029 2017 TR	4.7.26 6.2.26	" "
Lidocaine	205.603(b)(5)	KD	Y	Sunset date: 01/28/2029 TR: None	4.7.26 5.19.26	" "

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Livestock Subcommittee (LS) Notes

Tuesday, May 19, 2026 3:00 pm ET

Present: Kathryn Deschenes (KD); Cat McCluskey (CM); Franklin Quarcoo (FQ)

Absent: Nate Lewis (NL), Chair; Corie Pierce (CP), Vice Chair

Staff: Michelle Arsenault (MA); Jo Mirenda (JM); Heather Kumar (HK)

Agenda

- April 7, 2026 notes
- Post-meeting debrief
- Determine TR needs for 2029 sunsets
- Additional Items
- Adjourn

Discussion

- **April 7, 2026 notes** were approved via email April 21, 2026
- **Post-meeting debrief.** The group talked briefly about the Spring meeting.
- **Determine TR needs for 2029 sunsets.** The LS discussed the 2029 sunsets, and determined the need for TRs for two of the five (see table below). The remainder will be discussed on the June 2 call.
- **Additional items.** The research priorities are due to the Materials Subcommittee before the August 11 call, so they can vote on them. Each of the Subcommittees will finalize the lists on the July 21 calls, and forward them to the MS.
- **The meeting was adjourned.**

[Previous LS Notes](#)

Future call schedule (1st and 3rd Tuesdays 3:00 PM ET | 12:00 PM PT, except where noted)

April 7, 2026

Assign 2029 sunsets

April 21, 2026 - cancelled

May 5, 2026 - cancelled. Conflicts with comment webinar.

May 19, 2026

Post-meeting debrief

Determine TR needs for 2029 sunsets

June 2, 2026 (KD, CM out)

Determine TR needs for 2029 sunsets

Schedule discussion dates for 2028 sunsets and other work agenda items

June 16, 2026

July 7, 2026

July 21, 2026

Research Priorities (All) - discuss list, forward to MS

August 4, 2026

August 18, 2026

September 1, 2026

September 15, 2026

October 6, 2026

October 20, 2026

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Work Agenda

*Highlight indicates discussion. *Highlight indicates action needed. *Highlight indicates review completion and/or vote.

Petitioned Substances

Substance	National List	Contact	Doc Type	Notes	Scheduled/ status	Target meeting
Aquaculture Substances				On hold. (See NOSB Work agenda for additional information.)	TBD	TBD

Other Projects

Project	Contact	Notes	Scheduled/ status	Target meeting
Integrating livestock and agroforestry crops - Proposal	CP	Approved by Exec Cmmte 3.19.25, and NOP 4.16.25	TBD	Fall 2026
Research Priorities	All	Fall 2026 list due to MS July 24, 2026.	7.21.26	Fall 2026

2028 Sunset Review

TR Requests (June 2025), Summary (Spr 2026), Review (Fall 2026)

Previous Sunset Recommendations: [2021/Fall - Rec to Renew](#)

Previous Rule/Renewals: [04/14/2023, 88 FR 22893](#)

Substance	National List	Contact	TR Request ?	Notes*	Scheduled/ status	Target meeting
Activated charcoal	205.603(a)(6)	CM	N	Sunset date: 5/29/2028 2024 TR (Handling) 2021 TR 2002 TAP		Summary: Spr 2026 Review: Fall 2026
Calcium borogluconate	205.603(a)(7)	CP	N	Sunset date: 5/29/2028 2015 TR (Electrolytes) 2000 TAP		“ “
Calcium propionate	205.603(a)(8)	CP	N	Sunset date: 5/29/2028 2015 TR (Electrolytes) 2002 TAP		“ “
Chlorine materials: Calcium hypochlorite	205.603(a)(10)(i)	FQ	Y - Lmt'd Scope	Sunset date: 5/29/2028 2026 Lmt'd Scope TR 2006 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26. TR deemed		“ “

Substance	National List	Contact	TR Request ?	Notes*	Scheduled/ status	Target meeting
Chlorine materials: Chlorine dioxide	205.603(a)(10)(ii)	FQ	Y - Lmt'd Scope	Sunset date: 5/29/2028 2026 Lmt'd Scope TR 2006 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26. TR deemed sufficient 2.3.26.		" "
Chlorine materials: Hypochlorous acid - generated from electrolyzed water.	205.603(a)(10)(iii)	FQ	Y - Lmt'd Scope	Sunset date: 5/29/2028 2026 Lmt'd Scope TR 2017 Lmt'd Scope TR (hypochlorous acid) 2006 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26. TR deemed sufficient 2.3.26.		" "
Chlorine materials: Sodium hypochlorite	205.603(a)(10)(iv)	FQ	Y - Lmt'd Scope	Sunset date: 5/29/2028 2026 Lmt'd Scope TR 2006 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26. TR deemed sufficient 2.3.26.		" "
Kaolin pectin	205.603(a)(17)	KD	N	Sunset date: 5/29/2028 2021 TR 2002 TAP		" "
Mineral oil	205.603(a)(20)	KD	N	Sunset date: 5/29/2028 2021 Lmt'd Scope TR 2015 TR 2002 TAP		" "
Nutritive supplements	205.603(a)(21)	NL	Y - Lmt'd scope on ex- cipients	Sunset date: 5/29/2028 2026 TR 2024 Lmt'd Scope TR (vitamins) 2019 TR (trace minerals) 2015 TR (electrolytes) Draft TR due late Dec 2025. Draft TR sent to LS 12.17.25. TR sufficiency due 2.15.26. TR found sufficient 1.20.26.		" "
Propylene glycol	205.603(a)(27)	NL	N	Sunset date: 5/29/2028 2021 TR 2007 TAP		" "

Substance	National List	Contact	TR Request?	Notes*	Scheduled/status	Target meeting
Sodium chlorite, acidified	205.603(a)(28) and 205.603(b)(9)	FQ	Y - Lmt'd scope	Sunset date: 5/29/2028 2026 Lmt'd Scope TR 2013 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26. TR deemed sufficient 2.3.26.		" "
Zinc sulfate	205.603(b)(11)	NL	N	Sunset date: 5/29/2028 2015 TR		" "

2029 Sunset Review

TR Requests (June 2026), Summary (Spr 2027), Review (Fall 2027)

Previous Sunset Recommendations: [2022/Fall - Rec to Renew \(2024 LS Sunsets\)](#)

Previous Rule/Renewals: [04/14/2023, 88 FR 22893](#)

Substance	National List	Lead	TR Request?	Notes*	Scheduled/status	Target meeting
Chlorhexidine (CAS # 55-56-1)	205.603(a)(9)	FQ		Sunset date: 01/28/2029 2015 TR 1999 TAP	4.7.26 6.2.26	Summary: Spr 2027 Review: Fall 2027
Glucose	205.603(a)(13)	CM	No	Sunset date: 10/30/2029 2022 TR 1995 TAP	4.7.26 5.19.26	" "
Copper sulfate	205.603(b)(1)	NL		Sunset date: 10/30/2029 2015 TR 1995 TAP	4.7.26 6.2.26	" "
Elemental sulfur	205.603(b)(2)	CP		Sunset date: 01/28/2029 2017 TR	4.7.26 6.2.26	" "
Lidocaine	205.603(b)(5)	KD	Yes	Sunset date: 01/28/2029 TR: None	4.7.26 5.19.26	" "

Spring 2026 Milestones	Target dates (tentative)	Weeks PTM (prior to meeting)
NOP - Publish FRN, Open public comment	~Jan 24, 2026	16 -20
NOP - Draft Spring 2026 NOSB meeting tentative agenda	Feb 19, 2026	~ 10
NOSB - Spring 2026 proposals due to NOP	Feb 26, 2026	~ 9
NOP - Post proposals/Open comment period	Mar 16, 2026	7.5
Public comment closes	Apr 16, 2026	3.5
NOP - Send compiled public comments to NOSB	Apr 22, 2026	3
Public comment webinars	May 5 & 7, 2026	1
Spring 2026 NOSB meeting - Omaha	May 12 - 14, 2026	0
Final recommendations due	Jun 14, 2026	30 days post meeting

Fall 2026 Milestones	Target dates (tentative)	Weeks PTM (prior to meeting)
NOP - Publish FRN, Open public comment	~May 21, 2026	24
NOP - Draft Fall 2026 NOSB meeting agenda	Aug 11, 2026	~11
NOSB - Fall 2026 proposals due to NOP	Aug 20, 2026	~9
NOP - Post proposals/Open comment period	Aug 31, 2026	~8
Public comment closes	Oct 1, 2026	~4
NOP - Send compiled public comments to NOSB	Oct 7, 2026	~3
Public comment webinars	Oct 20 & 22, 2026	1
Fall 2026 NOSB meeting - Virtual	Oct 27 - 29, 2026	0
Final recommendations due	Nov 28, 2026	~30 days post meeting

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy/regulations or NOSB recommendations. Proposals must be voted on by the full Board, to become recommendations to the USDA. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

Livestock Subcommittee (LS) Notes

Tuesday, April 7, 2026 3:00 pm ET

Present: Nate Lewis (NL), Chair; Corie Pierce (CP), Vice Chair; Kathryn Deschenes (KD); Cat McCluskey (CM)

Absent: Franklin Quarcoo (FQ)

Staff: Michelle Arsenault (MA); Jo Mirenda (JM); Heather Kumar (HK)

Agenda

- Review February 17, 2026 notes
- Assign 2029 sunsets
- Additional Items
- Adjourn

Discussion

- **February 17, 2026 notes** were approved via email on March 18
- **Assign 2029 sunsets.** The LS assigned the five 2029 sunset substances (see table below), and will determine the need for new TRs on the June 2 call.
- **Additional items.** The LS cancelled the April 21 call, and may cancel the May 19 call, which falls immediately after the Spring meeting.
- **The meeting was adjourned.**

[Previous LS Notes](#)

Future call schedule (1st and 3rd Tuesdays 3:00 PM ET | 12:00 PM PT, except where noted)

February 17, 2026

2028 Sunset: Nutritive supplements (NL) - discuss review

Chlorine materials proposal (FQ/NL) - discuss/vote

Agroforestry (CP) - discuss verbal update for Spring meeting

March 3, 2026

Assign remainder of 2028 sunsets (Mineral oil, propylene glycol, zinc sulfate)

March 17, 2026 - cancelled

April 7, 2026

Assign 2029 sunsets

April 21, 2026 - cancelled

May 5, 2026 - cancelled. Conflicts with comment webinar.

May 19, 2026

Post-meeting - may cancel

June 2, 2026

Determine TR needs for 2029 sunsets

June 16, 2026

July 7, 2026

July 21, 2026

August 4, 2026

August 18, 2026

September 1, 2026

September 15, 2026

October 6, 2026

October 20, 2026

November 3, 2026
November 17, 2026
December 1, 2026
December 15, 2026

Work Agenda

*Highlight indicates discussion. *Highlight indicates action needed. *Highlight indicates review completion and/or vote.

Petitioned Substances

Substance	National List	Contact	Doc Type	Notes	Scheduled/status	Target meeting
Chlorine Materials	205.603	FQ	Proposal	2026 Lmt'd Scope TR Petition sent to LS 12.10.24. Petition sufficiency/TR request due 2.8.25. Petition was found sufficient 2.18.25, and the LS requested a Lmt'd Scope TR. TR received 12.9.26. Suff due Feb 7. TR deemed sufficient 2.3.26.	2.4.25 2.18.25 5.20.25 8.5.25 8.19.25 2.3.26 2.17.26	Spr 2026
Aquaculture Substances				On hold. (See NOSB Work agenda for additional information.)	TBD	TBD

Other Projects

Project	Contact	Notes	Scheduled/status	Target meeting
Integrating livestock and agroforestry crops - Verbal update	CP	Approved by Exec Cmmte 3.19.25, and NOP 4.16.25	1.20.26 2.3.26 2.17.26	Spr 2026
Research Priorities	All	Spring list due to MS by Feb 4, 2026.	1.20.26	Spr 2026

2028 Sunset Review

TR Requests (June 2025), Summary (Spr 2026), Review (Fall 2026)

Previous Sunset Recommendations: [2021/Fall - Rec to Renew](#)

Previous Rule/Renewals: [04/14/2023, 88 FR 22893](#)

Substance	National List	Contact	TR Request ?	Notes*	Scheduled/status	Target meeting
Activated charcoal	205.603(a)(6)	CM	N	Sunset date: 5/29/2028 2024 TR (Handling) 2021 TR 2002 TAP	3.18.25 4.1.25 12.16.25	Summary: Spr 2026 Review: Fall 2026
Calcium borogluconate	205.603(a)(7)	CP	N	Sunset date: 5/29/2028 2015 TR (Electrolytes) 2000 TAP	3.18.25 4.1.25 12.2.25	" "

Substance	National List	Contact	TR Request ?	Notes*	Scheduled/ status	Target meeting
Calcium propionate	205.603(a)(8)	CP	N	Sunset date: 5/29/2028 2015 TR (Electrolytes) 2002 TAP	3.18.25 4.1.25 12.2.25	" "
Chlorine materials: Calcium hypochlorite	205.603(a)(10)(i)	FQ	Y - Lmt'd Scope	Sunset date: 5/29/2028 2026 Lmt'd Scope TR 2006 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26. TR deemed	3.18.25 4.1.25 1.6.25 2.3.26	" "
Chlorine materials: Chlorine dioxide	205.603(a)(10)(ii)	FQ	Y - Lmt'd Scope	Sunset date: 5/29/2028 2026 Lmt'd Scope TR 2006 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26. TR deemed sufficient 2.3.26.	3.18.25 4.1.25 1.6.25 2.3.26	" "
Chlorine materials: Hypochlorous acid - generated from electrolyzed water.	205.603(a)(10)(iii)	FQ	Y - Lmt'd Scope	Sunset date: 5/29/2028 2026 Lmt'd Scope TR 2017 Lmt'd Scope TR (hypochlorous acid) 2006 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26. TR deemed sufficient 2.3.26.	3.18.25 4.1.25 1.6.25 2.3.26	" "
Chlorine materials: Sodium hypochlorite	205.603(a)(10)(iv)	FQ	Y - Lmt'd Scope	Sunset date: 5/29/2028 2026 Lmt'd Scope TR 2006 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26. TR deemed sufficient 2.3.26.	3.18.25 4.1.25 1.6.25 2.3.26	" "
Kaolin pectin	205.603(a)(17)	KD	N	Sunset date: 5/29/2028 2021 TR 2002 TAP	3.18.25 4.1.25 12.2.25	" "
Mineral oil	205.603(a)(20)	KD	N	Sunset date: 5/29/2028 2021 Lmt'd Scope TR 2015 TR 2002 TAP	3.18.25 4.1.25 12.2.25	" "

Substance	National List	Con tact	TR Request ?	Notes*	Scheduled/ status	Target meeting
Nutritive supplements	205.603(a)(21)	NL	Y - Lmt'd scope on ex- cipients	Sunset date: 5/29/2028 2026 TR 2024 Lmt'd Scope TR (vitamins) 2019 TR (trace minerals) 2015 TR (electrolytes) Draft TR due late Dec 2025. Draft TR sent to LS 12.17.25. TR sufficiency due 2.15.26. TR found sufficient 1.20.26.	3.18.25 4.1.25 1.20.26 2.17.26	" "
Propylene glycol	205.603(a)(27)	NL	N	Sunset date: 5/29/2028 2021 TR 2007 TAP	3.18.25 4.1.25 12.2.25	" "
Sodium chlorite, acidified	205.603(a)(28) and 205.603(b)(9)	FQ	Y - Lmt'd scope	Sunset date: 5/29/2028 2026 Lmt'd Scope TR 2013 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26. TR deemed sufficient 2.3.26.	3.18.25 4.1.25 2.3.26	" "
Zinc sulfate	205.603(b)(11)	NL	N	Sunset date: 5/29/2028 2015 TR	3.18.25 4.1.25 12.02.25	" "

2029 Sunset Review

TR Requests (June 2026), Summary (Spr 2027), Review (Fall 2027)

Previous Sunset Recommendations: [2022/Fall - Rec to Renew \(2024 LS Sunsets\)](#)

Previous Rule/Renewals: [04/14/2023, 88 FR 22893](#)

Substance	National List	Lead	TR Request?	Notes*	Scheduled/ status	Target meeting
Chlorhexidine (CAS # 55-56-1)	205.603(a)(9)	FQ		Sunset date: 01/28/2029 2015 TR 1999 TAP	4.7.26	Summary: Spr 2027 Review: Fall 2027
Glucose	205.603(a)(13)	CM		Sunset date: 10/30/2029 2022 TR 1995 TAP	4.7.26	" "
Copper sulfate	205.603(b)(1)	NL		Sunset date: 10/30/2029 2015 TR 1995 TAP	4.7.26	" "
Elemental sulfur	205.603(b)(2)	CP		Sunset date: 01/28/2029 2017 TR	4.7.26	" "
Lidocaine	205.603(b)(5)	KD		Sunset date: 01/28/2029 TR: None	4.7.26	" "

Spring 2026 Milestones	Target dates (tentative)	Weeks PTM (prior to meeting)
NOP - Publish FRN, Open public comment	~Jan 24, 2026	16 -20
NOP - Draft Spring 2026 NOSB meeting tentative agenda	Feb 19, 2026	~ 10
NOSB - Spring 2026 proposals due to NOP	Feb 26, 2026	~ 9
NOP - Post proposals/Open comment period	Mar 16, 2026	7.5
Public comment closes	Apr 16, 2026	3.5
NOP - Send compiled public comments to NOSB	Apr 22, 2026	3
Public comment webinars	May 5 & 7, 2026	1
Spring 2026 NOSB meeting - TBD	May 12 - 14, 2026	0
Final recommendations due	Jun 14, 2026	30 days post meeting

Fall 2026 Milestones	Target dates (tentative)	Weeks PTM (prior to meeting)
NOP - Publish FRN, Open public comment	~May 21, 2026	24
NOP - Draft Fall 2026 NOSB meeting agenda	Aug 11, 2026	~11
NOSB - Fall 2026 proposals due to NOP	Aug 20, 2026	~9
NOP - Post proposals/Open comment period	Aug 31, 2026	~8
Public comment closes	Oct 1, 2026	~4
NOP - Send compiled public comments to NOSB	Oct 7, 2026	~3
Public comment webinars	Oct 20 & 22, 2026	1
Fall 2026 NOSB meeting - Location TBD	TBD Oct 27 - 29, 2026	0
Final recommendations due	Nov 28, 2026	~30 days post meeting

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy/regulations or NOSB recommendations. Proposals must be voted on by the full Board, to become recommendations to the USDA. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

Livestock Subcommittee (LS) Notes

Tuesday, February 17, 2026 3:00 pm ET

Present: Nate Lewis (NL), Chair; Corie Pierce (CP), Vice Chair; Franklin Quarcoo (FQ); Kathryn Deschenes (KD); Cat McCluskey (CM)

Absent: None

Staff: Michelle Arsenault (MA); Jo Mirenda (JM); Heather Kumar (HK)

Agenda

- Review February 3, 2026 notes
- 2028 Sunset: Nutritive supplements (NL) - discuss review
- Chlorine materials proposal (FQ/NL) - discuss/vote
- Agroforestry (CP) - discuss verbal update for Spring meeting
- Additional Items
- Adjourn

Discussion

- **February 3, 2026 notes** were accepted as written.
- **2028 Sunset: Nutritive supplements (NL).** The lead summarized the review noting that this listing is for injectable vitamins and minerals. Many of these same vitamins also appear elsewhere on the National List. The LS received a TR, which it deemed sufficient on a previous call. Injectables are used in place of oral meds when that delivery method is found to be ineffective. The lead added a question about ease of accessing the supplements when needed. Members discussed the listing, which includes excipients. The LS will submit the review for the Spring meeting.
- **Chlorine materials petitioned proposal (FQ/NL).** The leads presented the most recent iteration of the proposal, and the LS discussed the petition before moving to a vote. With this document, the LS proposes an annotation to clarify that chlorine can be used to disinfect livestock drinking water as long as it doesn't exceed the prescribed levels in the Safe Drinking Water Act. The group discussed possible confusion around municipal water vs. well water, noting that municipal water is chlorinated.

Motion to amend chlorine at 7 CFR 205.603(a)(10)

(10) Chlorine materials—disinfecting and sanitizing facilities, ~~and equipment,~~ **and livestock drinking water**. Residual chlorine levels in the water shall not exceed the maximum residual disinfectant limit under the Safe Drinking Water Act.

Motion by: FQ

Seconded by: CM

Yes: 5 No: 0 Abstain: 0 Recuse: 0 Absent: 0

- **Agroforestry (CP).** The lead gave a brief overview of the project to date, and the group discussed the path forward. The CS will not have a document for the Spring meeting, but will present a verbal update.
- **Additional items.** Several 2028 sunset reviews were transitioned to new leads. They previously belonged to members who rotated off the Board last month. See table below for updates. The LS will assign the remainder on the next call (Mineral oil, propylene glycol, zinc sulfate).
- **The meeting was adjourned.**

[Previous LS Notes](#)

Future call schedule (1st and 3rd Tuesdays 3:00 PM ET | 12:00 PM PT, except where noted)

February 3, 2026

2028 Sunsets: Calcium hypochlorite, Chlorine dioxide, Hypochlorous acid, Sodium hypochlorite (FQ) - TR sufficiency (Due Feb 7)

2028 Sunset: Sodium chlorite, acidified (FQ)

Chlorine materials proposal (FQ/NL) - discuss/vote

February 17, 2026

2028 Sunset: Nutritive supplements (NL) - discuss review

Chlorine materials proposal (FQ/NL) - discuss/vote

Agroforestry (CP) - discuss verbal update for Spring meeting

March 3, 2026

Assign remainder of 2028 sunsets (Mineral oil, propylene glycol, zinc sulfate)

March 17, 2026

April 7, 2026

April 21, 2026

May 5, 2026

May 19, 2026

June 2, 2026

June 16, 2026

July 7, 2026

July 21, 2026

August 4, 2026

August 18, 2026

September 1, 2026

September 15, 2026

October 6, 2026

October 20, 2026

November 3, 2026

November 17, 2026

December 1, 2026

December 15, 2026

Work Agenda

*Highlight indicates discussion. *Highlight indicates action needed. *Highlight indicates review completion and/or vote.

Petitioned Substances

Substance	National List	Contact	Doc Type	Notes	Scheduled/ status	Target meeting
Chlorine Materials	205.603	FQ	Proposal	Petition sent to LS 12.10.24. Petition sufficiency/TR request due 2.8.25. Petition was found sufficient 2.18.25, and the LS requested a Lmt'd Scope TR. TR received 12.9.26. Suff due Feb 7. TR deemed sufficient 2.3.26.	2.4.25 2.18.25 5.20.25 8.5.25 8.19.25 2.3.26 2.17.26	Spr 2026
Aquaculture Substances				On hold. (See NOSB Work agenda for additional information.)	TBD	TBD

Other Projects

Project	Contact	Notes	Scheduled/status	Target meeting
Integrating livestock and agroforestry crops - Verbal update	CP	Approved by Exec Cmmte 3.19.25, and NOP 4.16.25	1.20.26 2.3.26 2.17.26	Spr 2026
Research Priorities	All	Spring list due to MS by Feb 4, 2026.	1.20.26	Spr 2026

2028 Sunset Review

TR Requests (June 2025), Summary (Spr 2026), Review (Fall 2026)

Previous Sunset Recommendations: [2021/Fall - Rec to Renew](#)

Previous Rule/Renewals: [04/14/2023, 88 FR 22893](#)

Substance	National List	Contact	TR Request ?	Notes*	Scheduled/status	Target meeting
Activated charcoal	205.603(a)(6)	CM	N	Sunset date: 5/29/2028 2024 TR (Handling) 2021 TR 2002 TAP	3.18.25 4.1.25 12.16.25	Summary: Spr 2026 Review: Fall 2026
Calcium borogluconate	205.603(a)(7)	CP	N	Sunset date: 5/29/2028 2015 TR (Electrolytes) 2000 TAP	3.18.25 4.1.25 12.2.25	" "
Calcium propionate	205.603(a)(8)	CP	N	Sunset date: 5/29/2028 2015 TR (Electrolytes) 2002 TAP	3.18.25 4.1.25 12.2.25	" "
Chlorine materials: Calcium hypochlorite	205.603(a)(10)(i)	FQ	Y - Lmt'd Scope	Sunset date: 5/29/2028 2006 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26. TR deemed sufficient 2.3.26.	3.18.25 4.1.25 1.6.25 2.3.26	" "
Chlorine materials: Chlorine dioxide	205.603(a)(10)(ii)	FQ	Y - Lmt'd Scope	Sunset date: 5/29/2028 2006 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26. TR deemed sufficient 2.3.26.	3.18.25 4.1.25 1.6.25 2.3.26	" "
Chlorine materials: Hypochlorous acid - generated from electrolyzed water.	205.603(a)(10)(iii)	FQ	Y - Lmt'd Scope	Sunset date: 5/29/2028 2017 Lmt'd Scope TR (hypochlorous acid) 2006 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26. TR deemed sufficient 2.3.26.	3.18.25 4.1.25 1.6.25 2.3.26	" "

Substance	National List	Contact	TR Request ?	Notes*	Scheduled/ status	Target meeting
Chlorine materials: Sodium hypochlorite	205.603(a)(10)(iv)	FQ	Y - Lmt'd Scope	Sunset date: 5/29/2028 2006 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26. TR deemed sufficient 2.3.26.	3.18.25 4.1.25 1.6.25 2.3.26	" "
Kaolin pectin	205.603(a)(17)	KD	N	Sunset date: 5/29/2028 2021 TR 2002 TAP	3.18.25 4.1.25 12.2.25	" "
Mineral oil	205.603(a)(20)	TBD	N	Sunset date: 5/29/2028 2021 Lmt'd Scope TR 2015 TR 2002 TAP	3.18.25 4.1.25 12.2.25	" "
Nutritive supplements	205.603(a)(21)	NL	Y - Lmt'd scope on ex- cipients	Sunset date: 5/29/2028 2024 Lmt'd Scope TR (vitamins) 2019 TR (trace minerals) 2015 TR (electrolytes) Draft TR due late Dec 2025. Draft TR sent to LS 12.17.25. TR sufficiency due 2.15.26. TR found sufficient 1.20.26.	3.18.25 4.1.25 1.20.26 2.17.26	" "
Propylene glycol	205.603(a)(27)	TBD	N	Sunset date: 5/29/2028 2021 TR 2007 TAP	3.18.25 4.1.25 12.2.25	" "
Sodium chlorite, acidified	205.603(a)(28) and 205.603(b)(9)	FQ	Y - Lmt'd scope	Sunset date: 5/29/2028 2013 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26. TR deemed sufficient 2.3.26.	3.18.25 4.1.25 2.3.26	" "
Zinc sulfate	205.603(b)(11)	TBD	N	Sunset date: 5/29/2028 2015 TR	3.18.25 4.1.25 12.02.25	" "

Spring 2026 Milestones	Target dates (tentative)	Weeks PTM (prior to meeting)
NOP - Publish FRN, Open public comment	~Jan 24, 2026	16 -20
NOP - Draft Spring 2026 NOSB meeting tentative agenda	Feb 19, 2026	~ 10
NOSB - Spring 2026 proposals due to NOP	Feb 26, 2026	~ 9
NOP - Post proposals/Open comment period	Mar 16, 2026	7.5

Public comment closes	Apr 16, 2026	3.5
NOP - Send compiled public comments to NOSB	Apr 22, 2026	3
Public comment webinars	May 5 & 7, 2026	1
Spring 2026 NOSB meeting - Omaha, NE (Tentative)	May 12 - 14, 2026	0
Final recommendations due	Jun 14, 2026	30 days post meeting

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy/regulations or NOSB recommendations. Proposals must be voted on by the full Board, to become recommendations to the USDA. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

Livestock Subcommittee (LS) Notes

Tuesday, February 3, 2026 3:00 pm ET

Present: Nate Lewis (NL), Chair; Corie Pierce (CP), Vice Chair; Franklin Quarcoo (FQ); Kathryn Deschenes (KD); Cat McCluskey (CM)

Absent: None

Staff: Michelle Arsenault (MA); Jo Mirenda (JM); Heather Kumar (HK)

Agenda

- Review January 20, 2026 notes
- 2028 Sunsets: Calcium hypochlorite, Chlorine dioxide, Hypochlorous acid, Sodium hypochlorite (FQ) - TR sufficiency (Due Feb 7)
- 2028 Sunset: Sodium chlorite, acidified (FQ) - TR sufficiency
- Chlorine materials (FQ) - discuss petition discussion document
- Additional Items
- Adjourn

Discussion

- **January 20, 2026 notes** were approved as written.
- **2028 Sunsets: Calcium hypochlorite, Chlorine dioxide, Hypochlorous acid, Sodium hypochlorite (FQ) - TR sufficiency (Due Feb 7).** The TR for chlorine materials was deemed sufficient. The lead praised its thoroughness and comprehensiveness. The Chair will relay that info to the NOP. The lead summarized the reviews for all four substances under the chlorine listing, highlighting the information provided in the new TR. The LS will submit the review to the NOP for the Spring meeting.
2028 Sunset: Sodium chlorite, acidified (FQ). The same TR for the chlorine materials also includes acidified sodium chlorite and as noted above, the TR was deemed sufficient. The lead summarized the sunset review, specifically the human health and environmental concerns. A member suggested a question about the use of lactic acid in teat dips. The LS will submit this review for the Spring 2026 meeting.
- **Chlorine materials petition (FQ).** The LS reviewed the discussion document that was previously posted for public comment, then subsequently deferred to the Spring 2026 meeting. Based on the chlorine TR and the public comment, the LS chose to revise this document from a discussion document to a proposal for the Spring meeting. The LS will review and finalize the proposal on its next call.
- **Additional items.**
 - Agroforestry (CP). The LS will provide a verbal update on this project at the Spring 2026 meeting.
- **The meeting was adjourned.**

[Previous LS Notes](#)

Future call schedule (1st and 3rd Tuesdays 3:00 PM ET | 12:00 PM PT, except where noted)

January 20, 2026

Agroforestry (BC) - discuss

Research Priorities (BC -> ?)

2028 Sunset: Nutritive supplements (NL) - TR sufficiency

February 3, 2026

2028 Sunsets: Calcium hypochlorite, Chlorine dioxide, Hypochlorous acid, Sodium hypochlorite (FQ) - TR sufficiency (Due Feb 7)

2028 Sunset: Sodium chlorite, acidified (FQ)

Chlorine materials proposal (FQ/NL) - discuss/vote

February 17, 2026

2028 Sunset: Nutritive supplements (NL) - discuss review

Chlorine materials proposal (FQ/NL) - discuss/vote

Agroforestry (CP) - discuss verbal update for Spring meeting

March 3, 2026

March 17, 2026

April 7, 2026

April 21, 2026

May 5, 2026

May 19, 2026

June 2, 2026

June 16, 2026

July 7, 2026

July 21, 2026

August 4, 2026

August 18, 2026

September 1, 2026

September 15, 2026

October 6, 2026

October 20, 2026

November 3, 2026

November 17, 2026

December 1, 2026

December 15, 2026

Work Agenda

*Highlight indicates discussion. *Highlight indicates action needed. *Highlight indicates review completion and/or vote.

Petitioned Substances

Substance	National List	Contact	Doc Type	Notes	Scheduled/ status	Target meeting
Chlorine Materials	205.603	FQ	Proposal	Petition sent to LS 12.10.24. Petition sufficiency/TR request due 2.8.25. Petition was found sufficient 2.18.25, and the LS requested a Lmt'd Scope TR. TR received 12.9.26. Suff due Feb 7. TR deemed sufficient 2.3.26.	2.4.25 2.18.25 5.20.25 8.5.25 8.19.25 2.3.26 2.17.26	Spr 2026
Aquaculture Substances				On hold. (See NOSB Work agenda for additional information.)	TBD	TBD

Other Projects

Project	Contact	Notes	Scheduled/ status	Target meeting
Integrating livestock and agroforestry crops - Verbal update	BC/CP	Approved by Exec Cmmte 3.19.25, and NOP 4.16.25	1.20.26 2.3.26 2.17.26	Spr 2026

Project	Contact	Notes	Scheduled/status	Target meeting
Research Priorities	BC/All	Spring list due to MS by Feb 4, 2026.	1.20.26	Spr 2026

2028 Sunset Review

TR Requests (June 2025), Summary (Spr 2026), Review (Fall 2026)

Previous Sunset Recommendations: [2021/Fall - Rec to Renew](#)

Previous Rule/Renewals: [04/14/2023, 88 FR 22893](#)

Substance	National List	Contact	TR Request ?	Notes*	Scheduled/status	Target meeting
Activated charcoal	205.603(a)(6)	BC	N	Sunset date: 5/29/2028 2024 TR (Handling) 2021 TR 2002 TAP	3.18.25 4.1.25 12.16.25	Summary: Spr 2026 Review: Fall 2026
Calcium borogluconate	205.603(a)(7)	CP	N	Sunset date: 5/29/2028 2015 TR (Electrolytes) 2000 TAP	3.18.25 4.1.25 12.2.25	" "
Calcium propionate	205.603(a)(8)	CP	N	Sunset date: 5/29/2028 2015 TR (Electrolytes) 2002 TAP	3.18.25 4.1.25 12.2.25	" "
Chlorine materials: Calcium hypochlorite	205.603(a)(10)(i)	FQ	Y - Lmt'd Scope	Sunset date: 5/29/2028 2006 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26. TR deemed sufficient 2.3.26.	3.18.25 4.1.25 1.6.25 2.3.26	" "
Chlorine materials: Chlorine dioxide	205.603(a)(10)(ii)	FQ	Y - Lmt'd Scope	Sunset date: 5/29/2028 2006 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26. TR deemed sufficient 2.3.26.	3.18.25 4.1.25 1.6.25 2.3.26	" "
Chlorine materials: Hypochlorous acid - generated from electrolyzed water.	205.603(a)(10)(iii)	FQ	Y - Lmt'd Scope	Sunset date: 5/29/2028 2017 Lmt'd Scope TR (hypochlorous acid) 2006 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26. TR deemed sufficient 2.3.26.	3.18.25 4.1.25 1.6.25 2.3.26	" "
Chlorine materials: Sodium hypochlorite	205.603(a)(10)(iv)	FQ	Y - Lmt'd Scope	Sunset date: 5/29/2028 2006 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26. TR deemed sufficient 2.3.26.	3.18.25 4.1.25 1.6.25 2.3.26	" "

Substance	National List	Contact	TR Request ?	Notes*	Scheduled/ status	Target meeting
Kaolin pectin	205.603(a)(17)	LP/ADB	N	Sunset date: 5/29/2028 2021 TR 2002 TAP	3.18.25 4.1.25 12.2.25	" "
Mineral oil	205.603(a)(20)	LP/ADB	N	Sunset date: 5/29/2028 2021 Lmt'd Scope TR 2015 TR 2002 TAP	3.18.25 4.1.25 12.2.25	" "
Nutritive supplements	205.603(a)(21)	NL	Y - Lmt'd scope on excipients	Sunset date: 5/29/2028 2024 Lmt'd Scope TR (vitamins) 2019 TR (trace minerals) 2015 TR (electrolytes) Draft TR due late Dec 2025. Draft TR sent to LS 12.17.25. TR sufficiency due 2.15.26. TR found sufficient 1.20.26.	3.18.25 4.1.25 1.20.26 2.17.26	" "
Propylene glycol	205.603(a)(27)	ADB	N	Sunset date: 5/29/2028 2021 TR 2007 TAP	3.18.25 4.1.25 12.2.25	" "
Sodium chlorite, acidified	205.603(a)(28) and 205.603(b)(9)	FQ	Y - Lmt'd scope	Sunset date: 5/29/2028 2013 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26. TR deemed sufficient 2.3.26.	3.18.25 4.1.25 2.3.26	" "
Zinc sulfate	205.603(b)(11)	BC	N	Sunset date: 5/29/2028 2015 TR	3.18.25 4.1.25 12.02.25	" "

Spring 2026 Milestones	Target dates (tentative)	Weeks PTM (prior to meeting)
NOP - Publish FRN, Open public comment	~Jan 24, 2026	16 -20
NOP - Draft Spring 2026 NOSB meeting tentative agenda	Feb 19, 2026	~ 10
NOSB - Spring 2026 proposals due to NOP	Feb 26, 2026	~ 9
NOP - Post proposals/Open comment period	Mar 16, 2026	7.5
Public comment closes	Apr 16, 2026	3.5
NOP - Send compiled public comments to NOSB	Apr 22, 2026	3
Public comment webinars	May 5 & 7, 2026	1

Spring 2026 NOSB meeting - Omaha, NE (Tentative)	May 12 - 14, 2026	0
Final recommendations due	Jun 14, 2026	30 days post meeting

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy/regulations or NOSB recommendations. Proposals must be voted on by the full Board, to become recommendations to the USDA. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

Livestock Subcommittee (LS) Notes **Tuesday, January 20, 2026 3:00 pm ET**

Present: Brian Caldwell (BC), Chair; Franklin Quarcio (FQ), Vice Chair; Amy Bruch (ADB); Corie Pierce (CP); Nate Lewis (NL)

Absent: Javier Zamora (JZ); Logan Petrey (LP)

Staff: Michelle Arsenault (MA); Jo Mirenda (JM); Heather Kumar (HK)

Agenda

- Review January 6, 2026 notes
- 2028 Sunset: Nutritive supplements (NL) - TR sufficiency
- Agroforestry (BC) - discuss
- Research Priorities (BC)
- Additional Items
- Adjourn

Discussion

January 6, 2026 notes were accepted with minor revisions to the schedule with regard to the chlorine TR. The group clarified that there is one TR for chlorine materials that covers several listings (Calcium hypochlorite, chlorine dioxide, hypochlorous acid, sodium hypochlorite, 2028 Sunset: Sodium chlorite, acidified, and the chlorine materials petition).

- **2028 Sunset: Nutritive supplements (NL) - TR sufficiency.** The lead reviewed and summarized the TR, and highlighted the complexity of this listing, given that the National List contains generic substances while the FDA regulates name brands and formulations. The TR for nutritive supplements was found sufficient, and the lead will complete the sunset review on a future call.
- **Agroforestry (BC/CP).** The lead summarized comments received at the Fall meeting. He also noted that he reached out to various researchers cited in the document, and found a reluctance to make suggestions about requirements. Members discussed various aspects of the discussion document, including international standards. The group discussed next steps. The co-lead has a working relationship with researchers from the Institute for Agroecology at the University of Vermont, and will reach out for more info. The LS will discuss this again on the February 17 call and decide then if they will bring a document to the Spring 2026 meeting.
- **Research Priorities (BC).** The lead noted that aside from minor technical corrections, the LS priorities are largely unchanged from the Fall version. The lead will forward the final list to the Materials Subcommittee. The new LS Chair (NL) will work with members to choose a new lead for the Research Priorities since the current lead is completing his Board term.
- **Additional items.** None.
- **The meeting was adjourned.**

[Previous LS Notes](#)

Future call schedule (1st and 3rd Tuesdays 3:00 PM ET | 12:00 PM PT, except where noted)

January 6, 2026

2028 Sunsets: Calcium hypochlorite, Chlorine dioxide, Hypochlorous acid, Sodium hypochlorite (FQ) - discuss

January 20, 2026

Agroforestry (BC) - discuss

Research Priorities (BC -> ?)

2028 Sunset: Nutritive supplements (NL) - TR sufficiency

February 3, 2026

2028 Sunsets: Calcium hypochlorite, Chlorine dioxide, Hypochlorous acid, Sodium hypochlorite (FQ) - TR sufficiency (Due Feb 7)

2028 Sunset: Sodium chlorite, acidified (FQ) - TR sufficiency

Chlorine materials petition (FQ) - discuss petition discussion document

February 17, 2026

2028 Sunset: Nutritive supplements (NL) - discuss review

Agroforestry (CP) - discuss

March 3, 2026

March 17, 2026

April 7, 2026

April 21, 2026

May 5, 2026

May 19, 2026

June 2, 2026

June 16, 2026

July 7, 2026

July 21, 2026

August 4, 2026

August 18, 2026

September 1, 2026

September 15, 2026

October 6, 2026

October 20, 2026

November 3, 2026

November 17, 2026

December 1, 2026

December 15, 2026

Work Agenda

*Highlight indicates discussion. *Highlight indicates action needed. *Highlight indicates review completion and/or vote.

Petitioned Substances

Substance	National List	Contact	Doc Type	Notes	Scheduled/ status	Target meeting
Chlorine Materials	205.603	FQ	Discussion document	Petition sent to LS 12.10.24. Petition sufficiency/TR request due 2.8.25. Petition was found sufficient 2.18.25, and the LS requested a Lmt'd Scope TR. TR received 12.9.26. Suff due Feb 7.	2.4.25 2.18.25 5.20.25 8.5.25 8.19.25 2.3.26	Spr 2026
Aquaculture Substances				On hold. (See NOSB Work agenda for additional information.)	TBD	TBD

Other Projects

Project	Contact	Notes	Scheduled/status	Target meeting
Integrating livestock and agroforestry crops - Discussion Doc	BC/CP	Approved by Exec Cmmte 3.19.25, and NOP 4.16.25	1.20.26 2.17.26	Spr 2026
Research Priorities	BC/All	Spring list due to MS by Feb 4, 2026.	1.20.26	Spr 2026

2028 Sunset Review

TR Requests (June 2025), Summary (Spr 2026), Review (Fall 2026)

Previous Sunset Recommendations: [2021/Fall - Rec to Renew](#)

Previous Rule/Renewals: [04/14/2023, 88 FR 22893](#)

Substance	National List	Contact	TR Request ?	Notes*	Scheduled/status	Target meeting
Activated charcoal	205.603(a)(6)	BC	N	Sunset date: 5/29/2028 2024 TR (Handling) 2021 TR 2002 TAP	3.18.25 4.1.25 12.16.25	Summary: Spr 2026 Review: Fall 2026
Calcium borogluconate	205.603(a)(7)	CP	N	Sunset date: 5/29/2028 2015 TR (Electrolytes) 2000 TAP	3.18.25 4.1.25 12.2.25	" "
Calcium propionate	205.603(a)(8)	CP	N	Sunset date: 5/29/2028 2015 TR (Electrolytes) 2002 TAP	3.18.25 4.1.25 12.2.25	" "
Chlorine materials: Calcium hypochlorite	205.603(a)(10)(i)	FQ	Y - Lmt'd Scope	Sunset date: 5/29/2028 2006 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26	3.18.25 4.1.25 1.6.25 2.3.26	" "
Chlorine materials: Chlorine dioxide	205.603(a)(10)(ii)	FQ	Y - Lmt'd Scope	Sunset date: 5/29/2028 2006 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26	3.18.25 4.1.25 1.6.25 2.3.26	" "
Chlorine materials: Hypochlorous acid - generated from electrolyzed water.	205.603(a)(10)(iii)	FQ	Y - Lmt'd Scope	Sunset date: 5/29/2028 2017 Lmt'd Scope TR (hypochlorous acid) 2006 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26	3.18.25 4.1.25 1.6.25 2.3.26	" "
Chlorine materials: Sodium hypochlorite	205.603(a)(10)(iv)	FQ	Y - Lmt'd Scope	Sunset date: 5/29/2028 2006 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26	3.18.25 4.1.25 1.6.25 2.3.26	" "

Substance	National List	Contact	TR Request ?	Notes*	Scheduled/ status	Target meeting
Kaolin pectin	205.603(a)(17)	LP/A DB	N	Sunset date: 5/29/2028 2021 TR 2002 TAP	3.18.25 4.1.25 12.2.25	" "
Mineral oil	205.603(a)(20)	LP/ ADB	N	Sunset date: 5/29/2028 2021 Lmt'd Scope TR 2015 TR 2002 TAP	3.18.25 4.1.25 12.2.25	" "
Nutritive supplements	205.603(a)(21)	NL	Y - Lmt'd scope on ex-cipients	Sunset date: 5/29/2028 2024 Lmt'd Scope TR (vitamins) 2019 TR (trace minerals) 2015 TR (electrolytes) Draft TR due late Dec 2025. Draft TR sent to LS 12.17.25. TR sufficiency due 2.15.26. TR found sufficient 1.20.26.	3.18.25 4.1.25 1.20.26 2.17.26	" "
Propylene glycol	205.603(a)(27)	ADB	N	Sunset date: 5/29/2028 2021 TR 2007 TAP	3.18.25 4.1.25 12.2.25	" "
Sodium chlorite, acidified	205.603(a)(28) and 205.603(b)(9)	FQ	Y - Lmt'd scope	Sunset date: 5/29/2028 2013 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26	3.18.25 4.1.25 2.3.26	" "
Zinc sulfate	205.603(b)(11)	BC	N	Sunset date: 5/29/2028 2015 TR	3.18.25 4.1.25 12.02.25	" "

Spring 2026 Milestones	Target dates (tentative)	Weeks PTM (prior to meeting)
NOP - Publish FRN, Open public comment	~Jan 24, 2026	16 -20
NOP - Draft Spring 2026 NOSB meeting tentative agenda	Feb 19, 2026	~ 10
NOSB - Spring 2026 proposals due to NOP	Feb 26, 2026	~ 9
NOP - Post proposals/Open comment period	Mar 16, 2026	7.5
Public comment closes	Apr 16, 2026	3.5
NOP - Send compiled public comments to NOSB	Apr 22, 2026	3
Public comment webinars	May 5 & 7, 2026	1
Spring 2026 NOSB meeting - Omaha, NE (Tentative)	May 12 - 14, 2026	0

Final recommendations due	Jun 14, 2026	30 days post meeting
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Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy/regulations or NOSB recommendations. Proposals must be voted on by the full Board, to become recommendations to the USDA. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

Livestock Subcommittee (LS) Notes

Tuesday, January 6, 2026 3:00 pm ET

Present: Brian Caldwell (BC), Chair; Franklin Quarcoo (FQ), Vice Chair; Amy Bruch (ADB); Corie Pierce (CP)

Absent: Javier Zamora (JZ); Logan Petrey (LP); Nate Lewis (NL); Heather Kumar (HK)

Staff: Michelle Arsenault (MA); Jo Miranda (JM)

Agenda

- Review December 16, 2025 notes
- 2028 Sunsets: Calcium hypochlorite, Chlorine dioxide, Hypochlorous acid, Sodium hypochlorite (FQ) - discuss
- Additional Items
- Adjourn

Discussion

- **December 16, 2025 notes** were accepted as written.
- **2028 Sunsets: Calcium hypochlorite, Chlorine dioxide, Hypochlorous acid, Sodium hypochlorite (FQ).**
The lead was very pleased with the TR and noted that it was comprehensive and well written. The LS will discuss the TR and will determine sufficiency on the next call.
- **Additional items.** The LS received public comments on the discussion document for integrating livestock and agroforestry. The LS will discuss next steps on the next call.
- **The meeting was adjourned.**

Previous LS Notes

Future call schedule (1st and 3rd Tuesdays 3:00 PM ET | 12:00 PM PT, except where noted)

December 16, 2025

2028 Sunset: Activated charcoal (BC) - discuss

January 6, 2026

2028 Sunsets: Calcium hypochlorite, Chlorine dioxide, Hypochlorous acid, Sodium hypochlorite (FQ) - discuss

January 20, 2026

Agroforestry (BC) - discuss

Research Priorities (BC -> ?)

2028 Sunset: Nutritive supplements (NL) - TR sufficiency

February 3, 2026

2028 Sunsets: Calcium hypochlorite, Chlorine dioxide, Hypochlorous acid, Sodium hypochlorite (FQ) - TR sufficiency (Due Feb 7)

2028 Sunset: Sodium chlorite, acidified (FQ) - TR sufficiency (see 2025 Chlorine TR)

Chlorine materials (FQ) - discuss petition discussion document

February 17, 2026

Work Agenda

*Highlight indicates discussion. *Highlight indicates action needed. *Highlight indicates review completion and/or vote.

Petitioned Substances

Substance	National List	Contact	Doc Type	Notes	Scheduled/status	Target meeting
Chlorine Materials	205.603	FQ	Discussion document	Petition sent to LS 12.10.24. Petition sufficiency/TR request due 2.8.25. Petition was found sufficient 2.18.25, and the LS requested a Lmt'd Scope TR. TR received 12.9.26. Suff due Feb 7.	2.4.25 2.18.25 5.20.25 8.5.25 8.19.25 2.3.26	Spr 2026
Aquaculture Substances				On hold. (See NOSB Work agenda for additional information.)	TBD	TBD

Other Projects

Project	Contact	Notes	Scheduled/status	Target meeting
Integrating livestock and agroforestry crops - Discussion Doc	BC/CP	Approved by Exec Cmmte 3.19.25, and NOP 4.16.25	5.20.25 8.5.25 8.19.25 1.20.26	Spr 2026
Research Priorities	BC/All	Fall list due to MS by July 8, 2025. Spring list due to MS by Feb 4, 2026.	7.1.25 1.20.26	Spr 2026
Annotations: Oxytocin	BC	Proposal	7.1.25 7.15.25 8.5.25	Fall 2025

2027 Sunset Review

TR Requests (June 2024), Summary (Spr 2025), Review (Fall 2025)

Substance	National List	Contact	TR Request ?	Notes*	Scheduled /status	Target meeting
Butorphanol	205.603(a)(5)	CP	N	Sunset date: 03/15/2027 TAP: 2002 TR: NA 2020/Fall - Rec to Renew 08/03/2021 86 FR 41699	7.15.25	Summary: Spr 2025 Review: Fall 2025
Flunixin	205.603(a)(12)	NL	N	Sunset date: 03/15/2027 TAP: 2007 TR: NA 2020/Fall - Rec to Renew 08/03/2021 86 FR 41699	7.15.25	" "
Magnesium hydroxide	205.603(a)(18)	NL	N	Sunset date: 03/15/2027 TAP: 2007 TR: NA 2020/Fall - Rec to Renew 08/03/2021 86 FR 41699	6.3.25	" "

Substance	National List	Contact	TR Request ?	Notes*	Scheduled /status	Target meeting
Oxytocin	205.603(a)(22)	BC	N	Sunset date: 03/15/2027 TAP: 1995 TR: 2005 2017/Fall - Rec to REMOVE 02/28/2022 87 FR 10930	5.20.25 7.1.25	" "
Poloxalene	205.603(a)(26)	LP-> ADB	Y Lmt'd scope	Sunset date: 03/15/2027 TAP: 2001 TR: NA 2020/Fall - Rec to Renew 08/03/2021 86 FR 41699 TR due mid Sep 2024. TR sent to LS 9.20.24. Suff due 11.19.24. TR found sufficient 11.19.24	7.1.25	" "
Formic acid	205.603(b)(3)	LP-> ADB	N	Sunset date: 03/15/2027 TR: 2011 2020/Fall - Rec to Renew 08/03/2021 86 FR 41699	6.3.25	" "
Sucrose octanoate esters	205.603(b)(10)	FQ	Y - Lmt'd Scope	Sunset date: 03/15/2027 TR: 2005 2018/Fall - Rec to REMOVE 02/28/2022 87 FR 10930 TR due mid Dec 2024. TR sent to LS/CS 12.18.24. Sufficiency due 2.16.25. TR found sufficient 1.21.25	7.15.25	" "
EPA List 4 Inerts	205.603(e)(1)	BC/NL	N	Sunset date: 03/15/2027 TR: NA 2020/Fall - Rec to Renew 08/03/2021 86 FR 41699	6.3.25	" "
Excipients	205.603(f)	BC/NL	N	Sunset date: 03/15/2027 TR: 2015 2020/Fall - Rec to Renew 08/03/2021 86 FR 41699	7.15.25	" "
Strychnine	205.604(a)	FQ	N	Sunset date: 03/15/2027 TR: NA 2020/Fall - Rec to Renew 08/03/2021 86 FR 41699	6.3.25	" "

Milestones

Fall 2025 Milestones	Target dates (tentative)	Weeks PTM (prior to meeting)
NOP - Publish FRN, Open public comment	~May 15, 2025	24
NOP - Draft Fall 2025 NOSB meeting agenda	Aug 8, 2025	~11
NOSB - Fall 2025 proposals due to NOP	Aug 20, 2025	~9

NOP - Post proposals	Sept 9, 2025	~8
Public comment closes	Oct 8, 2025	~4
NOP - Send compiled public comments to NOSB	Oct 14, 2025	~3
Public comment webinars	Cancelled	1
Rescheduled public comment closes	Dec 30, 2025	2
Rescheduled Fall 2025 NOSB meeting - Virtual	Jan 13 & 14, 2026	0
Final recommendations due	Feb 13, 2026	~30 days post

2028 Sunset Review

TR Requests (June 2025), Summary (Spr 2026), Review (Fall 2026)

Previous Sunset Recommendations: [2021/Fall - Rec to Renew](#)

Previous Rule/Renewals: [04/14/2023, 88 FR 22893](#)

Substance	National List	Contact	TR Request ?	Notes*	Scheduled/status	Target meeting
Activated charcoal	205.603(a)(6)	BC	N	Sunset date: 5/29/2028 2024 TR (Handling) 2021 TR 2002 TAP	3.18.25 4.1.25 12.16.25	Summary: Spr 2026 Review: Fall 2026
Calcium borogluconate	205.603(a)(7)	CP	N	Sunset date: 5/29/2028 2015 TR (Electrolytes) 2000 TAP	3.18.25 4.1.25 12.2.25	" "
Calcium propionate	205.603(a)(8)	CP	N	Sunset date: 5/29/2028 2015 TR (Electrolytes) 2002 TAP	3.18.25 4.1.25 12.2.25	" "
Chlorine materials: Calcium hypochlorite	205.603(a)(10)(i)	FQ	Y - Lmt'd Scope	Sunset date: 5/29/2028 2006 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26	3.18.25 4.1.25 1.6.25 2.3.26	" "
Chlorine materials: Chlorine dioxide	205.603(a)(10)(ii)	FQ	Y - Lmt'd Scope	Sunset date: 5/29/2028 2006 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26	3.18.25 4.1.25 1.6.25 2.3.26	" "
Chlorine materials: Hypochlorous acid - generated from electrolyzed water.	205.603(a)(10)(iii)	FQ	Y - Lmt'd Scope	Sunset date: 5/29/2028 2017 Lmt'd Scope TR (hypochlorous acid) 2006 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26	3.18.25 4.1.25 1.6.25 2.3.26	" "

Substance	National List	Contact	TR Request ?	Notes*	Scheduled/ status	Target meeting
Chlorine materials: Sodium hypochlorite	205.603(a)(10)(iv)	FQ	Y - Lmt'd Scope	Sunset date: 5/29/2028 2006 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26	3.18.25 4.1.25 1.6.25 2.3.26	" "
Kaolin pectin	205.603(a)(17)	LP/A DB	N	Sunset date: 5/29/2028 2021 TR 2002 TAP	3.18.25 4.1.25 12.2.25	" "
Mineral oil	205.603(a)(20)	LP/ ADB	N	Sunset date: 5/29/2028 2021 Lmt'd Scope TR 2015 TR 2002 TAP	3.18.25 4.1.25 12.2.25	" "
Nutritive supplements	205.603(a)(21)	NL	Y - Lmt'd scope on ex- cipients	Sunset date: 5/29/2028 2024 Lmt'd Scope TR (vitamins) 2019 TR (trace minerals) 2015 TR (electrolytes) Draft TR due late Dec 2025. Draft TR sent to LS 12.17.25. TR sufficiency due 2.15.26	3.18.25 4.1.25 1.20.26	" "
Propylene glycol	205.603(a)(27)	ADB	N	Sunset date: 5/29/2028 2021 TR 2007 TAP	3.18.25 4.1.25 12.2.25	" "
Sodium chlorite, acidified	205.603(a)(28) and 205.603(b)(9)	FQ	Y - Lmt'd scope	Sunset date: 5/29/2028 2013 TR Draft TR due Nov 2025. TR sent to LS 12.10.25. TR Suff due 2.7.26	3.18.25 4.1.25 2.3.26	" "
Zinc sulfate	205.603(b)(11)	BC	N	Sunset date: 5/29/2028 2015 TR	3.18.25 4.1.25 12.02.25	" "