# TESTIMONY OF THE INTERNATIONAL DAIRY FOODS ASSOCIATION WITH RESPECT TO PROPOSAL 21 2023-24 FEDERAL MILK ORDER HEARINGS DOCKET NO. 23-J-0067; AMS-DA-0031

IDFA represents the nation's dairy manufacturing and marketing industry, which supports more than 3.2 million jobs that generate \$49 billion in direct wages and \$794 billion in overall economic impact. IDFA's diverse membership ranges from multinational organizations to single-plant companies, from dairy companies and cooperatives to food retailers and suppliers, all on the forefront of innovation and sustainable business practices. Together, they represent most of the milk, cheese, ice cream, yogurt and cultured products, and dairy ingredients produced and marketed in the United States and sold throughout the world.

As buyers and processors of milk, the members of IDFA have a critical interest in these hearings. Most of the milk bought and handled by IDFA members is purchased under the Federal milk marketing orders promulgated pursuant to the Agricultural Marketing Agreement Act of 1937 (the "AMAA").

I am Mike Brown, Chief Economist for IDFA since January 2023. I have testified on other proposals earlier in this hearing, and at that time described my professional and educational background. My testimony now will address the reasons why USDA should reject AFBF Proposal 21, which would increase the Class II differential from \$0.70 to \$1.56.

There are four principal reasons for IDFA's opposition.

a. No evidence suggests a need to raise the Class II differential in order to attract an adequate supply of milk for Class I or Class II needs. To the contrary, the supply is more than adequate. USDA has previously rejected proposed Class II differential increases on this basis in the National Hearing decision announced in 1993.

b. Raising the Class II differential would lead to the substitution of nonfat dry milk for fluid milk in many Class II products. This opportunity already exists and is already used to some extent. As I will demonstrate with hard numbers, an increase in the Class II differentials as is now being proposed would further shift the economics dramatically in that direction. This would mean that in terms of net milk price, farmers would likely be made worse off by Proposal 21. Rather than receiving \$0.86 more via a higher Class II differential, they will be receiving \$0.70 less by only being paid the Class IV price for their milk.

c. The significant cost advantage of using nonfat dry milk instead of Class II nonfat solids creates a very uneven competitive surface between stand-alone Class II plants compared to Class I distributing plants that also manufacture Class II products. Class I handlers would not be able to take advantage of the lower priced nonfat dry milk, because they are not allowed to depool, and would still have to account to the pool at the Class II price.

d. Class II has many unique aspects that collectively dictate that Class II regulated minimum pricing provides maximum flexibility to ensure that market forces can match supply with needs throughout the FMMO system. This is particularly important because a uniform Class II minimum price applies in both surplus and deficit milk supply markets. That system is working very well under current Class II pricing and should not be changed.

## A. Class II Differentials Should Not Be Raised In Light Of The More Than Adequate Milk Supply.

Current market conditions have created a more than sufficient supply of milk to serve Class I (fluid) needs, the principal impetus behind the FMMO system, as well as Class II needs. Class I milk only constitutes 27% of the milk pooled on federal orders, and only 20% of all milk. This is the lowest utilization rate in the ninety year history of the FMMO system.

Class II only comprises an additional 9% of federal order milk usage. The total FMMO milk supply thus greatly exceeds Class I needs, as well as Class I and II needs combined. See USDA Market Summary and Utilization 2022 Annual Report, available at https://www.ams.usda.gov/sites/default/files/media/2022AnnualPriceandPoolReport.pdf.

The reserve supply of milk, i.e., that milk currently being used to make manufactured Class III and IV products, dwarfs the 30-35% of total milk level USDA has deemed adequate. See Milk in the New England and Other Marketing Areas; Decision on Proposed Amendments to Tentative Marketing Agreements and Orders, 58 FR 12634, 12646 (March 5, 1993) ("a reserve milk supply equal to 30 to 35 percent of the total milk in the market appears to be a reasonable reserve requirement.")

Accordingly, Class II differentials do **not** need to be raised because farmers need a financial incentive to produce more milk to meet unmet needs. Proposal 21 should be rejected on that ground alone.

This rational is squarely based in USDA's own thinking when in 1990 it held "national hearings" to consider a wide variety of proposals to amend various provisions of FMMOs. One set of proposals sought to increase the-then \$0.10 Class II differential to either \$0.50, \$1.00 or \$1.20.

The proponents of these Class II differential increases pointed to a variety of factors to try to convince USDA to increase Class II differentials. They argued that handlers "were willing to pay much more than the minimum Class II prices," with overorder prices for Class II milk "common throughout the country, often ranging from 50 cents to \$1.00 or more over the Class III price." Milk In the New England and Other Marketing Areas; Decision on Proposed Amendments to Tentative Marketing Agreements and Orders, 58 Fed. Reg. 12634, 12652 (Mar. 5, 1993).<sup>1</sup> Proponents also contended that Class II products were claimed to "show greater strength and profitability relative to dairy products in general." Id. at 12653.

The proponents also sought to justify an increase in Class II differentials based on handlers' purported relative disincentive instead to use nonfat dry milk. Id. Proponents further claimed that Class II uses "should bear, along with fluid milk products, a reasonable part of the cost of attracting a sufficient supply of high-quality milk to the market." Id at 12652-53. In addition, they contended that "the cost of moving producer milk to Class II outlets far exceeds the order Class II differentials and that only through over-order prices can milk be attracted away from the more remunerative Class III outlets, which are usually located within the milkshed." Id. at 12653.

USDA rebuffed all of these arguments. USDA did acknowledge that "the present Class II prices under the orders substantially understate[d] the price that regulated handlers are paying for Class II milk," given that "handlers in most areas are paying much more than this to get a supply of milk for the soft product uses." Id. USDA further acknowledged that "handlers want a regular supply of Grade A milk for such uses, which

<sup>&</sup>lt;sup>1</sup> Class III at that time included those products now found in Classes III and IV.

requires essentially all of the costly supply services associated with procuring milk for the Class I market," including "moving the milk long distances from the milkshed to the city processing plants and balancing milk supplies with demand," and that "handlers also often want milk delivered in a standardized form." USDA acknowledged that the current Class II differential "does not cover the cost of these services." Id.

Nonetheless, none of this was enough to convince USDA, which rejected all of the proposals to increase Class II differentials. USDA's reasoning was telling and remains highly relevant today. In rejecting the proposals to increase Class II differentials, USDA focused on the fact that over order premiums "in conjunction with Class I prices are generating adequate supplies of Grade A milk for both Class I and Class II uses." Specifically, "an analysis of supply and demand conditions under the orders indicates that there are adequate reserves of Class III milk to balance both Class I and Class II needs:" Accordingly, USDA "concluded that an increase in Class II differentials under all orders is not needed." Id.

All of the reasons USDA advanced then in rejecting Class II differential increases apply fully today. Today, as then, over order premiums "in conjunction with Class I prices are generating adequate supplies of Grade A milk for both Class I and Class II uses." Today, as then, "an analysis of supply and demand conditions under the orders indicates that there are adequate reserves of Class III [and IV] milk to balance both Class I and Class II needs." Accordingly, today, as then, "an increase in Class II differentials under all orders is not needed."

For sake of completeness, I will note that several months after USDA in March 1993 had rejected all of these proposals to increase Class II differentials, IDFA and NMPF made a joint proposal addressing some technical glitches in the Class II formula. Although as noted the Class II differential was \$0.10, the Class II price at the time contained certain floor and look back provisions that as a practical matter resulted in a Class II price equal to the then-Class III price plus \$0.30 rather than \$0.10. To simplify the process, IDFA and NMPF jointly proposed that the floor and look back provisions be eliminated, and the Class II differential be set at a flat \$0.30. Milk In the New England and Other Marketing Areas; Notice of Hearing on Proposed Amendments to Tentative Marketing Agreements and Orders, 58 Fed. Reg. 67380, 67381 (Dec. 21, 1993).

USDA accepted and implemented this proposal. Milk in the New England and Other Marketing Areas; Recommended Decision and Opportunity To File Written Exceptions on Proposed Amendments to Tentative Marketing Agreements and to Orders, 59 Fed. Reg. 44074, 44075 (Aug. 26, 1994); Milk in the New England and Other Marketing Areas, Decision on Proposed Amendments to Marketing Agreements and to Orders, 59 Fed. Reg. 64524 (Dec. 14, 1994). But this change was not, as noted, a true increase in the preexisting Class II differential, but simply a revamping of the formula to preserve the existing effective differential.

# B. Proposal 21 Would Cause Class II Handlers To Switch To Class IV Products, Reducing Farmer Revenues.

Let me begin by observing that a desire to set the Class II differential at a level that would not encourage the substitution of nonfat dry milk for farm milk in the production of Class II products should **not** be the driving force behind determining the appropriate level of the Class II differential. One would struggle to find a single example of someone (other than perhaps a manufacturer that desires to run their powder plants full to reduce marginal drying costs) who actively chooses to buy milk or condensed skim and run it through a dryer only to re-wet those solids immediately to avoid paying the Class II differential.

If the goal were simply to maximize regulated producer prices this might be a reason to raise the differential, but the stated goal of regulated pricing has always been to provide for minimum pricing and attract an adequate supply of milk for fluid consumption, rather than set regulated prices as binding market prices (the same reasoning that leads everyone to agrees that make allowances need to be adjusted).

This highlights that there is no good justification for a specific relationship between Class II and Class IV prices based on replacement of farm milk with dried solids, but rather that this relationship should be viewed as at most an upper bounds on where the Class II differential can be set.

All of that being said, Proposal 21 is deeply flawed even if one focuses solely on concerns over the substitution of nonfat dry milk. This is because the proposal would greatly incentivize the substitution of Class IV dry milk products for farm milk in the production of Class II products.

The following chart set forth the economics of making Class II product using: (a) purchased nonfat dry milk, versus (b) purchased farm milk at the current Class II differential of \$0.70, versus (c) purchased farm milk at the proposed Class II differential of \$1.56. I have used the average actual 2023 NDPSR advanced nonfat dry milk and Federal Order Class II nonfat solids prices to provide for consistent timing of comparisons and actual average delivery costs and service charges based upon data received from actual market participants.

#### 2023 Market Based Cost Comparison for Delivered Class II Skim Solids

Purchased Nonfat Dry Milk	Value	Description
NDPSR ADVANCE NONFAT DRY MILK	\$ 1.2181	2023 Monthly NDPSR ADVANCE Average Price
+ Delivery Cost	\$ 0.0375	Average 2023 Bid Premium and Hauling for Full Loads
Delivered NFDM per Pound	\$ 1.2556	Advance Price + Delivery Cost
Delivered Nonfat Solids Cost per Pound	\$ 1.2944	Delivered NDM per Pound ÷ 97% Solids
Farm Milk, Current Class II Differential	Value	Description
NDPSR ADVANCE NONFAT DRY MILK	\$ 1.2181	2023 Monthly NDPSR ADVANCE Average Price
Class IV SNF Per Pound	\$ 1.0398	(NDPSR NDM-0.1678)*0.99
Current Class II Differential	\$ 0.7000	
Class II SNF per CWT	\$ 10.06	Advanced Class IV SNF * 9 + \$0.70
+ Delivered Service Charge Class II	\$ 1.3000	Average Class II Service Charge
Delivered Class II Skim per CWT	\$ 11.36	Class IV Skim + Class II Differential + Delivered Service Charge
Delivered Nonfat Solids Cost per Pound	\$ 1.2620	Delivered Skim per Cwt / 9 Pounds Yield/Cwt
Farm Milk, Proposed Class II Differential	Value	Description
NDPSR ADVANCE NONFAT DRY MILK	\$ 1.2181	2023 Monthly NDPSR ADVANCE Average Price
Class IV SNF Per Pound	\$ 1.0398	(NDPSR NDM-0.1678)*0.99
Proposal 21's Proposed Class II Differential	\$ 1.5600	
Class II SNF per CWT	\$ 10.92	Advanced Class IV SNF * 9 + \$1.56
+ Delivered Service Charge Class II	\$ 1.3000	Average Class II Service Charge
Delivered Class II Skim per CWT	\$ 12.22	Class IV Skim + Class II Differential + Delivered Service Charge
Delivered Nonfat Solids Cost per Pound	\$ 1.3576	Delivered Skim per Cwt / 9 Pounds Yield/Cwt

Source: USDA Announcement of Advanced Prices and Pricing Factors, November 23, 2023

This analysis shows that under the current Class II differential of \$0.70, it is on average cheaper for a Class II processor to use farm milk, priced at the Class II price, to make its products. Specifically, the delivered nonfat solids cost per pound using Class II farm milk is on average \$1.2620, as compared to a cost of \$1.2944 using nonfat dry milk.

However, were the Class II differential to be increased to \$1.56 as Proposal 21 suggests, the delivered nonfat solids cost per pound using Class II farm milk would on average increase to \$1.3576, 6.32 cents higher than the cost of \$1.2944 using nonfat dry milk. This would incentivize Class II processors materially to increase their use of nonfat dry milk, a Class IV product, rather than Class II farm milk.

In fact, in 111 out of 134 months since June 2012 (82.8% of the time), a processor buying a six month supply of nonfat dry milk would have had a lower cost than if it had bought Class II nonfat solids as priced in Proposal 21.

Indeed, the incentives can actually be even greater. If the processor had bought the six month supply of nonfat dry milk in the most advantageous month during this time period, the cost advantage over Class II nonfat solids would have been a little more than \$0.21 per pound, an enormous savings. These calculations are set forth in Appendix 1.

I am not suggesting that every Class II processor would switch to Class IV nonfat dry milk for 100% of their needs. Some processors consider farm milk to provide a better tasting product. Others are far less convinced. But the cost disparity resulting from Proposal 21 would predictably cause many Class II processors to make the change.

As noted in the testimony of Tim Galloway (Hearing Exh. 439 (IDFA Exh. 63) at p. 2, when the Class II price was tied to Class III cheese back in the 1990's, many retail and ice cream mix manufacturers switched to dry dairy solids and anhydrous milkfat due to the vast discrepancy in price between Class II and Class III. Similarly, while one of the very largest U.S. candy makers has stuck with using farmer milk, another switched to dry dairy solids decades ago, due to cost considerations; both companies continue to be successful. I worked for a consulting firm in the early 1990's when the prices for Class II was linked to the price of Class III. One of my duties was to advise a large Class II manufacturer when to buy nonfat dry milk vs Class II Condensed milk, in an effort to minimize cost. It saved money for the buyer, while at the same time made production planning for the Class II condensed skim supplier more difficult. The Class II supplier was losing sales and losing predictability.

I know from personal experience from my time at Kroger that Class II manufacturers already commonly maintain a prepurchased inventory of nonfat dry milk, obtained if possible when nonfat dry milk market prices are low. They can use those solids anytime they provide a cheaper source of solids than buying Class II milk. Again, it is convenient for processors to do this because nonfat dry milk can be stored without refrigeration in a dry location and used for at least a year after purchase. In fact, given its storability, nonfat dry milk is easier to manage than farm milk, which must be kept refrigerated and has a short shelf life.

In fact, it is common to obtain and maintain a prepurchased inventory of nonfat dry milk without necessarily knowing what specific Class II product will be manufactured from it. I am personally aware of nonfat dry milk being used in extensively in yogurt, cottage cheese ice cream and confections, mostly chocolate candy.

The circumstances in which this occurs are increased by the fact that Class II and Class IV are priced on a different schedule, with Class II being priced on an advanced basis and Class IV after the fact. This leads to price disparities between Class IV powder and Class II farm milk that can make switching economically advantageous. The circumstances in which this would occur would be vastly increased were the economics to be changed as Proposal 21 indicates.

# C. Proposal 21 Also Creates A Significant Disadvantage For Class I Processors That Also Manufacture Class II Products In Their Class I Distributing Plant

There is a growing number of large stand-alone plants making a growing share of the variety of Class II products sold today. Because these plants are not required to be pooled, they can take full advantage of the lower skim solids price that nonfat dry milk would provide compared to Class II skim solids under Proposal 21.

However this benefit would not apply to all Class II processors, leading to regulation-based competitive disadvantages. Class I distributing plants that make Class II products cannot depool. And, they cannot take advantage of the lower priced nonfat dry milk, because they will be required to account to the pool as if they had used fresh milk to make the Class II products. The 6.6 cents (or more) advantage that the free-standing Class II plant would have over the Class I plant making Class II products would be a very significant competitive advantage. We have heard how Class I price contracts can be awarded based on differences of small fractions of a cent. From my experience this is also true for Class II products.

# D. Class II Is A Uniquely Dynamic Market That Is Functioning Well And Does Not Warrant A Higher Differential.

There are additional considerations weighing against an increase in the Class II differentials.

Class II is unique in several respects. It is the smallest class. Its price is based off of the supply and demand for another class (Class IV) whose supply and demand does not match that of Class II products. Class II products containing skim milk solids can be manufactured with either fresh milk and dried milk products like nonfat dry milk, and buttermilk, both of which are Class IV products. Dry whey may also be used in some Class II products when the price spread between Class II nonfat solids and alternative solids sources is wide enough. Furthermore, dairy farmers are not incentivized to serve Class II needs in the way they are incentivized to serve Class I needs. A farmer is not required to serve Class II needs as a prerequisite to having his or her milk pooled and sharing in the pool draw. Finally, unlike Class I milk, the Class II milk price is uniform throughout the federal order system, even though the milk supply available to serve Class II needs varies greatly by location and temporally depending upon local supply conditions.

All of these unique attributes dictate that Class II regulated pricing provide maximum flexibility to ensure that market forces can work throughout the FMMO system to match supply with needs, regardless of the wide variability in milk supply conditions either geographically or seasonally. That system is currently working very well and should not be changed.

In fact, the market has done an admirable job of developing a variable Class II price surface across time and space through variable premiums layered on top of the regulated Class II price. Only a dynamic marketplace can fill that role. The dynamism in



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the market is exemplified by the regional variations in the market price for Class II cream over the past five years, based on prices reported in USDA's AMS Dairy Market News, included in Appendix 2 and displayed in the chart below:

As shown, the relationship of Class II cream values between the Midwest and the Northeast varied substantially in 2022 from month to month, and from more than 35 cents lower to more than 20 cents higher, all as established by supply and demand factors. The two regional cream prices adjusted, often independently, as necessary to balance supplies.

Like cream, condensed skim milk, an intermediate dairy ingredient often used in Class II products, is subject to significant market forces outside of the small Class II market, particularly shifts in supply relative to demand:



While tighter supplies of skim milk solids have helped stabilize condensed skim costs over the past two years, earlier periods of surplus milk supplies, well before the COVID epidemic, created significant negative margins on Class II condensed skim sales – a factor caused by imbalances of manufacturing milk and completely independent of the Class II regulated differential. Clearly the market should, and will, determine the ultimate price, and not the regulated minimum.

Appendix 1: Comparison of Current NDPSR NFDM Price with NDPSR 6-Month Forward Average Advanced NFDM Price, With Current and Proposal 21

							nine	rentials,	June 20	z Ainr - zt	023						
							Current Mon	th Delivered Co SNF	st per Pound	Class II SNF Del Delivera	Need Cost vs. 3 N FDM	Average Cum SNF fi	ent Delivered C or 6 Months Fo	ost per Pound	6-Month Pre Delivered Ma	-Purchased NFDA Kets on a Per-P o	tvs Current ind SNF Basis
	NBN	CALF and may	Adama N FIM	SNF Cost for	Current	Current C	SNF Cost for	Class II SNF	Class II SNF	Clack II QUE	Ciace II CME	SNF Cost for	6- Month	6- Month		Pre-Purchwed	Pre-Purchased
FMMO	Monthly	Pound from	Purchase 5 Month Total	Purchased NFDM FOB	Month	Month Proposal 21	NFDM for Current	Cost @	Cost @ Proposal 21	Delivered Cost @ Current II	Delivered Cost @ Proposel 21	Forward Avg.	CURPENT Class II SNF	@ PROP 21 Class II SNF	Pre-Purchased NFDM vs.	Delivered Class II SNF with	Delivered Class
Month	Price	Supplier	Carry Cost	Supplier	Class II SNF	Class II SNF	Month	Differential	Differential	Differential	Differential	MOIN	Price	Price	Current NFDM	Current Make	Prop ZI Make
Jun 12	\$1.1023	\$1136A	\$00300	512673	\$1.0167 \$1.0011	\$1.1423	\$1.1751	51.1911	\$12867	\$00161	\$0.1116 40.0001	\$1.4236	\$1,2902	\$1,4459	-00.2485	-\$0.1151	-\$0.1966
Aug-12	\$1.2543	\$12931	\$00300	\$13240	\$1.0589	\$11545	\$1.3318	\$1.2033	\$12980	\$01284	90.029	\$15648	\$1.4235	\$15191	90.2330	-50.0918	\$01873
Sep-12	\$1.3768	\$14194	\$00300	\$1.4508	\$1.1511	\$12467	\$1.4580	\$1.2555	116215	-\$01625	690.065	\$16166	\$1.4898	\$15854	90.1586	\$0.0818	\$01273
001-12	\$1.4636 en 6.443	\$15000	\$00300	\$15398	\$1.2689 61 3471	\$13645 e1444	\$1.5475	\$1.4133 \$1.4233	\$15000	-\$01342	90.086	\$16414	\$1.5413	516369	-90.0938 -00.0613	\$0.0062 60.0062	-\$0.069
Dec 12	\$1.5384	\$15860	\$00300	\$16100	\$1.4078	\$15034	\$1.6246	\$1.5522	\$16478	\$00724	\$0.0232	\$16741	\$1.5748	10/915	-90.0495	\$0.0498	\$00457
km-13	\$1.5 601	\$1.6084	\$00300	816398	\$1.4100	\$15356	\$1.6470	\$1.5844	\$16800	-\$0.0626	20.0330	\$16998	\$1.3956	\$16911	-90.0528	\$0.0514	10005-
Mercia	\$1.5309	515040	200100	516349	51.4567	515523	\$1.6427	\$1.6011	\$1.7000	10000	\$0.0540	517285	51.6185	517341	-90.0658 -00 1589	\$0.0242	WE1005-
Agr-13	\$1.5312	\$15786	000005	\$160%	\$1.4189	\$15145	\$1.6172	\$1.5633	\$16589	68005-	\$0.0417	\$18148	\$1.6774	\$17730	-90.1976	-50.0602	\$01538
May-13	\$1.6374	\$1,6830	\$00300	\$17190	690E-15	\$14945	\$1.7267	\$1.5433	\$16330	-\$01894	\$0.0878	\$18673	\$1.7233	\$1.8189	-90.1406	\$0.0034	-\$0.09.22
ET and	51.6878	\$1.7400	\$00300	\$1,7709	\$1.5322	\$16278	51.7787	\$1.6766	\$1.7722	-501000	\$0.0065	\$19106	\$1.7783	518739	-90.1319 -01 -010	\$0.0003	-\$0.0952
Aug-13	517170C	\$1325A	CODODS	\$14563	\$1.6078	\$1703M	\$1.0640	277.722	\$18478	Solution-	00.0162	\$2.0000	\$1.8622	\$19578	-90.2449	\$0.0018	10005-
Sup-13	\$1.8085	\$186M	\$00300	\$18954	\$1.6622	\$17578	\$1.9031	\$1.8066	\$13022	-\$0.0964	6000.08	\$2.0618	\$1.9141	\$2.0006	-\$0.1587	-\$0.010	-\$01065
001-13	\$1.8366	ME6815	\$00300	\$19243	\$1.6944	\$17900	\$1.9921	\$1.8388	\$13344	-\$0.0912	\$0.023	\$2.1100	\$1.9642	\$2,0598	-90.1780	-\$0.0122	-\$01277
ET MON	\$1.8392 e+ act 7	51.9476	\$00300	\$1.9786	\$1.7289	\$1.8245	\$1.9863	\$1.8733	\$1.9689 \$2.0180	-\$01129	\$0.0174 -00.0334	\$21434	\$2.00.37	\$2.1093	-90.1551 -00.0044	-\$0.0274	-\$01230
11-14	22.035	\$2.0964	200300	\$21273	51.8344	S19300	\$2.1351	51.9788	\$2.074M	501962	00001	\$21238	\$2.0400	521356	50.0013	50.0951	20000
Feb-14	\$2.0783	\$21426	\$00300	\$2.1735	\$1.9189	\$2.0145	\$2.1812	\$2.0633	\$2.15@0	-\$01179	\$0.0223	\$2.09-12	\$2.0252	\$2,1208	\$0.0870	\$0.1560	\$0.0605
Mar-34	\$2.0897	\$21548	\$00300	\$2.1853	\$1.9633	\$2.05.89	\$2.1930	\$2.1077	\$22033	-\$0.0052	\$0.0103	\$2,0445	\$2.0002	\$2.0958	\$0.3485	\$0.1928	\$0.0972
Agr-14	52.0191	\$2.0815	\$00300	\$2.1125	\$1.9011	\$2.0867	\$2.1202	22.1355	\$22311	\$00153	\$0.1109	\$1.9383	\$1.956	\$2.0511	90.1819	\$0.1646	\$0.06M
hine 14	51.8633	519200	200300	\$19519	00/17 TS	518656	\$1.9596	51.9344	\$2,0100	-50.0451	100000	S17638	\$1.7704	518659	20,1958	50.1892	200937
Ju-1.4	\$1.861.7	819191	\$00300	\$19500	\$1.7456	\$18412	\$1.9579	\$1.8900	\$1.9856	\$00029	\$0.0277	\$1,6593	\$1.7002	\$17958	\$0.2986	\$0.2577	\$01622
Aug-14	\$1.7887	\$1.8440	\$00300	\$1.8749	\$1.7689	\$13645	\$1.8827	51.9133	\$2,0009	200307	\$0.1262	\$15148	\$1.6061	\$17017	\$0.3679	\$0.2766	\$01810
Pi-day	\$1.4718	\$1517	\$00300	\$15482	\$1.6056	\$17912	\$1.5560	\$1.8400	\$19356	\$02841	\$0.3796	\$13845	\$1.4657	\$15613	\$0.1714	\$0.0002	-\$0,003
001-14	\$1.4900	515361	000005	515670	EE/E 15	514689	51.5747	51.5177	516133	-\$0.0570 \$0.0748	50.0386 en 4 703	513072	0/85.15	\$14326 514326	50.2675 SN 26.42	\$0.2377 \$0.247	\$01422 \$01000
Dec -14	P952 15	07671S	Socoa	513252	51 M39	S14445	\$1.3129	CUPACING ST	\$15830	Solida	S0.2%0	ETPITS	\$1.1796	\$12752	20.1916	\$0.1533	11.9005
Am-15	\$1.0202	\$10518	\$00300	\$10827	\$1.1811	\$12767	\$1.0004	\$1.3255	\$14211	\$02351	\$0.3307	\$10851	\$1.0067	\$11922	\$0.0053	-\$0.0062	-501018
Feb-15	\$1.0308	\$1.0627	\$00300	\$10936	\$0.9267	\$10223	\$1.1013	\$1.0711	\$11667	-\$0,0002	\$0.0654	\$10536	\$1.0396	\$11352	\$0.0478	\$0.0617	\$0033
Mar-15	\$1.0217	\$1.0533	\$00300	\$1.0842	\$0.9233	\$10189	\$1.0920	\$1.0677	\$11633	-\$0.0242	\$0.0713	\$10043	\$1.0115	\$11070	\$0.0876	\$0.0805	151005-
ST-DA	20.9464	509757	COLOGO S	10000	20,203	\$0.46.78	0/00-15	21.0166	11120	50,0023	\$0.0479	1006005	50.9069	010000	\$0.0000	50.0075	0070D0-
Aun 15	\$0.9283	025605	\$00300	\$0.9879	90.8511	\$09467	\$0.9957	90.9855	\$1.0911	-\$0.001	\$0.0554	\$0.9350	\$0.91.76	\$1.0132	\$0.0607	\$0.0781	-\$00175
2140	\$0.8366	\$03625	\$00300	\$08934	\$0.8339	\$0.9345	\$0.9011	50.9833	\$1.0789	\$0.0822	\$0.1778	\$09111	\$0.9008	\$0.9963	-\$0.00.00	\$0.004	\$0.0952
Aug-15	20.7443	\$07673	200300	50.7982	20.578	100000	50.8060	\$0.9@2	2/6605	50.0963	20.1918	2010010	\$0.8778	10000	-30.050	-50.0718	-5016/4
000-15	20.8551	509228	200300	209537	50.7178	508134	50.9614	50.8622	803578	50.0902	50.0016	\$03960	50.8633	509639	\$0.0646	\$0.0031	50002
Nov-15	\$0.8372	\$0363IL	\$00300	S0.89-40	20.8167	\$09123	\$0.9018	\$0.9611	\$1,0567	\$0.0594	\$0.1549	\$0.8636	\$0.8578	\$03533	20.031	\$0.0140	-\$0.05 16
Dec-15	\$0.7893	\$0.8137	\$0.0300	\$0.8446	\$0.7500	\$08456	\$0.8524	\$0.8944	\$03900	\$0.0421	\$0.1376	\$0.85555	\$0.8274	\$09230	-\$0.0031	\$0.0250	-\$0.0706
Jan-16	\$0.7776	\$03036	\$00300	\$0.833.26	20.7011	\$0.7967	\$0.8403	20.8455	\$03411	\$0,0052	\$0.1008	008004	\$0.8109	\$03065	-90.0051	\$0.0294	-\$0.0642
Feb-16	50.7689	126205	200300	\$08236	20.6856	\$07812	\$0.8313	20.8300	\$03256	£10005-	50.0943	\$0.8656	\$0.8102	\$0307	-90.0342 An actor	\$0.0212	-50.074
Am 16	LOEL US	EL SCUS	anone another	CP 2 2 2 2 2	20 00 00 V	001500	1410.05	001 000 000	Wesus	200005	Paul us	CLOBOD S	2028.05	Paceus	1110	100000	STELOS.
Mar. 16	50.7607	\$0784D	200300	508152	20.6344	207300	\$0.8229	20.7788	5037M	-50.0410	\$0.0515	\$09366	50.8570	\$0.9526	50.1137	50.0841	501297
Jun 16	20.7883	201120	\$00300	\$0344I	20.6511	\$07467	\$0.8519	20.7955	116805	-\$0.056.3	\$0.0392	\$03626	\$0.8896	\$09652	-90.1107	-\$0.0178	-\$01330
14116	\$0.8363	\$03622	\$00300	106805	\$0.6967	\$07923	\$0.9008	\$0.8411	\$03367	\$0.057	\$0.0359	\$0.9916	\$0.9167	\$10122	\$0.0908	-\$0.0158	\$01114
91-Bry	20.8588	\$03354	200300	801605	20.7456	\$03412	\$0.9240	20.8300	\$03836	-\$0000	\$0.0616	\$10237	50.9444	\$10400	-90.0997	-\$0.0204	\$01100
01-10	90.9222	171505	Soosoo S	\$0.9816	\$0.7933	\$08830	1000000	200.9377	\$10334	\$00516	100.0419	S10406	\$0.9961	100015	90.0512	50.0067	\$01102
Now-16	6116.05	\$03400	200300	0012005	20.8300	\$09256	\$0.9788	\$0.9744	\$1.0700	\$00043	20.0912	\$10263	50.9894	51080	\$0.0475	50.0007	501062
19. mg	60 9579	\$0487K	SOOTO	C4 01 95	CO BE ST	CO 90000	61 (06.2	40 act 7	64 06 91	ADDGA.	40 M TT 4	C+ 010H	50 033	0 1 1000	\$1 (0) 1	\$0.0K34	TTANA T

oosal 21	A vs Current und SNF Basis	Pre-Purchased NFDM vs Delivered Class	II SNF with Prop 21 Make	-\$0.2107	-\$0.1966	\$0.1273	-\$0.0893	-\$0.0621 -\$0.0457	-\$0.0441	-\$0.1328	-\$0.1558	-\$0.0952	-\$0.0957	-\$0.0937	-\$0.1277	-\$0.1230	-\$0.0842	\$00005	\$0.0972	\$0.0691	\$0.0253	\$0.1622	\$0.1810	\$0.0053 \$0.1422	\$0.1083	\$0.0577	-\$0.0338	-\$0.0151	-\$0.0256	-\$0.0175	-\$0.0952	-\$0.1674	-\$0.0025	-\$0.0516	-\$0.0706	-\$0.0744	-\$0.1016	-\$0.1375	-\$0.1333	-\$0.1114	-\$0.1160 ¢0.110E	-\$0.1023	-\$0.1062	\$0.0427 \$0.0323	\$0.0077	-\$0.1208	-50.1138	-\$0.0372	-\$0.0346	-\$0.0295	\$0.0190	€2cu.u¢-	
and Prol	Purchased NFDI kets on a Per-Po	Pre-Purchased NFDM vs Delivered Class	II SNF with Current Make	-\$0.1151	-\$0.1010 -\$0.0918	-\$0.0318	\$0.0062	\$0.0335 \$0.0498	\$0.0514	\$0.0242 -\$0.0372	-\$0.0602	\$0.0034	-\$0.0002	\$0.0018	-\$0.0322	-\$0.0274	\$0.0113	10951.05	\$0.1928	\$0.1646	\$0.1209 ¢0.1003	\$0.2577	\$0.2766	\$0.0902 \$0.2377	\$0.2039	\$0.1533	\$0.0617	\$0.0805	\$0.0700	50.0781	\$0.0004	-\$0.0718	\$0.0931	\$0.0440	\$0.0250 ¢0.0244	\$0.0212	-\$0.0061	-\$0.0419 -\$0.0341	-\$0.0378	-\$0.0158	-\$0.0204	-\$0.0067	-\$0.0107	\$0.0529 \$0.1278	\$0.1033	-\$0.0252	-50.0183	\$0.0584	\$0.0609	\$0.0660	\$0.0765	\$0.0329	
h Current	6-Month Pre Delivered Mar	Dre-Durchased	NFDM vs. Current NFDM	-\$0.2485	-\$0.2491 -\$0.2330	-\$0.1586	-\$0.0938	-\$0.0532 -\$0.0495	-\$0.0528	-\$0.1589	-\$0.1976	-\$0.1319	-\$0.1370	-\$0.1449	-\$0.1780	-\$0.1551	-\$0.0865	\$0.0870	\$0.1485	\$0.1819	\$0.1261 cn 1050	\$0.2986	\$0.3679	\$0.1714 \$0.3675	\$0.2543	\$0.1916	\$0.0053	\$0.0876	\$0.0706	\$0.0607	-\$0.0100	-\$0.0950	\$0.0646	\$0.0331	-\$0.0031	-\$0.0342	-\$0.0668	-\$0.1118	-\$0.1107	-\$0.0908	-\$0.0997 c0.0060	-\$0.0512	-\$0.0475	\$0.0071 \$0.0817	\$0.0717	-\$0.0555	-\$0.0667	40 0855	\$0.0531	\$0.0613	\$0.0655 \$0.0555	50.0109	
rice, Wit	ed Cost per s Forward	6- Month Forward Avg. @ PROP 21	Class II SNF Price	\$1.3858	\$1.5191	\$1.5854	\$1.6369	\$1.6704	\$1.6911	\$1.7393	\$1.7730	\$1.8189	\$1.9150	\$1.9578	\$2.0598	\$2.1093	\$2.1370	\$2.1208	\$2.0958	\$2.0511	\$1.9482 ¢1 0650	\$1.7958	\$1.7017	\$1.5613 \$1.4326	\$1.3635	\$1.2752	\$1.1352	\$1.1070	\$1.0626	\$1.0132	\$0.9963	\$0.9734	\$0.9639	\$0.9533	\$0.9230 ¢0.006E	\$0.9057	\$0.9157	\$0.9294 \$0.9594	\$0.9852	\$1.0122	\$1.0400	\$1.0917	\$1.0850	\$1.0689 \$1.0609	\$1.0543	\$1.0350	\$1.0170	\$1.0128 \$1.0178	\$1.0002	\$0.9685	\$0.9339 \$0.0065	50.8800	-
NFDM F	irrent Delivere F for 6 Month	6- Month Forward Avg. @ CURRENT	Class II SNF Price	\$1.2902	\$1.4235	\$1.4898	\$1.5413	\$1.5663 \$1.5748	\$1.5956	\$1.6437	\$1.6774	\$1.7783 \$1.7783	\$1.8194	\$1.8622	\$1.9642	\$2.0137	\$2.0415	\$2.0252	\$2.0002	\$1.9556	\$1.8526	\$1.7002	\$1.6061	\$1.4657 \$1.3370	\$1.2680	\$1.1796	\$1.0396	\$1.0115	\$0.9670	\$0.9176	\$0.9008	\$0.8778	\$0.8683	\$0.8578	\$0.8274 ¢0.0100	\$0.8102	\$0.8202	\$0.8339 \$0.8570	\$0.8896	\$0.9167	\$0.9444 ¢0.0737	\$0.9961	\$0.9894	\$0.9733 \$0 965.4	\$0.9587	\$0.9394	\$0.9215	\$0.9226 \$0.9227	\$0.9046	\$0.8730	\$0.8383	\$0.7844	
lvanced	Average Cu Pound SN	SNF Cost for 6-Month Forward Ave	NDPSR	\$1.4236	\$1.5648	\$1.6166	\$1.6414	\$1.6530 \$1.6741	\$1.6998	\$1.7654	\$1.8148	\$1.810/3 \$1.9106	\$1.9563	\$2.0089	\$2.1101	\$2.1414	\$2.1393	\$2.0942	\$2.0445	\$1.9383	\$1.8474 ¢1 7620	\$1.6593	\$1.5148	\$1.3845 \$1 3072	\$1.2176	\$1.1413	\$1.0536	\$1.0043	\$0.9664	\$0.9350	\$0.9111	\$0.9010	2 c0 6 96 9 5 0.8 96 9	\$0.8686	\$0.8555 ¢0 e c a	\$0.8655	\$0.8809	\$0.9037 \$0.9366	\$0.9626	\$0.9916	\$1.0237 61.0467	\$1.0406	\$1.0263	\$1.0191	\$0.9903	\$0.9698	\$0.9699	\$0.9049 \$0.9452	\$0.9125	\$0.8777	\$0.8494	\$0.8064	
verage Ad 023	vered Cost vs. I NFDM	Class II SNF Delivered Cost	@ Proposal 21 Differential	\$0.1116	-\$0.0083 -\$0.0329	-\$0.0669	-\$0.0386	\$0.0120 \$0.0232	\$0.0330	\$0.0935	\$0.0417	-\$0.0065	-\$0.0015	-\$0.0162	\$0.0023	-\$0.0174	-\$0.0339	-\$0.053	\$0.0103	\$0.1109	\$0.1621 ¢0.0504	\$0.0277	\$0.1262	\$0.3796 \$0.0386	\$0.1703	\$0.2560	\$0.3307	\$0.0713	\$0.1619	\$0.0954	\$0.1778	\$0.1918	\$0.0326 -\$0.0036	\$0.1549	\$0.1376 ¢0.1000	\$0.0943	\$0.0981	\$0.1024 \$0.0515	\$0.0392	\$0.0359	\$0.0616	\$0.0439	\$0.0912	\$0.0271 \$0.0101	\$0.0991	\$0.2147	\$0.0901	\$0.0373 \$0.0250	\$0.0977	\$0.1066	\$0.1063	\$0.1538	
orward Av 12 - Julv 2	Class II SNF Deliv Delivered	Class II SNF Delivered Cost 1	@ Current II (	\$0.0161	-\$0.1038 -\$0.1284	-\$0.1625	-\$0.1342	-\$0.1075 -\$0.0724	-\$0.0626	-\$0.0021	-\$0.0539	-\$0.1834 -\$0.1020	-\$0.0970	-\$0.1118	-\$0.0932	-\$0.1129	-\$0.1294	-\$0.1179	-\$0.0852	\$0.0153	\$0.0665	-\$0.0679	\$0.0307	\$0.2841 -40.0570	\$0.0748	\$0.1605	\$0.2351	-\$0.0242	\$0.0663	\$0.0023 -\$0.0001	\$0.0822	\$0.0963	-\$0.0992	\$0.0594	\$0.0421 ¢0.0452	-\$0.0013	\$0.0025	\$0.0069	-\$0.0563	-\$0.0597	-\$0.0340	-\$0.0516	-\$0.0043	-\$0.0684	\$0.0036	\$0.1191	-\$0.0055	-\$0.0706	\$0.0022	\$0.0111	\$0.0107	oucu.uç \$0.0582	
Month F June 20	st per Pound	Class II SNF Delivered Cost @	Proposal 21 Differential	\$1.2867	\$1.2411	\$1.3911	\$1.5089	\$1.5878 \$1.6478	\$1.6800	\$1.7000	\$1.6589	\$1.7722	\$1.8178	\$1.8478	\$1.9344	\$1.9689	\$2.0189	\$2.1589	\$2.2033	\$2.2311	\$2.1356	\$1.9856	\$2.0089	\$1.9356 \$1.6133	\$1.6422	\$1.5889	\$1.1667	\$1.1633	\$1.1989	\$1.0911	\$1.0789	\$0.9978	\$0.9578	\$1.0567	\$0.9900	\$0.9256	\$0.9122	\$0.8944 \$0.8744	\$0.8911	\$0.9367	\$0.9856 ¢0.0044	\$1.0333	\$1.0700	\$1.0533	\$1.1611	\$1.1289	\$0.9933 \$0.0733	\$1.0056	\$1.0633	\$1.0456	\$1.0211	\$0.9711	
DPSR 6- entials.	h Delivered Co: SNF	Class II SNF Delivered Cost @	Current II I Differential	\$1.1911	\$1.2033	\$1.2955	\$1.4133	\$1.4922 \$1.5522	\$1.5844	\$1.6044	\$1.5633	\$1.5433	\$1.7222	\$1.7522	\$1.8388	\$1.8733	\$1.9233	\$2.0633	\$2.1077	\$2.1355	\$2.0400	\$1.8900	\$1.9133	\$1.8400	\$1.5466	\$1.4933	\$1.0711	\$1.0677	\$1.1033	\$1.0166	\$0.9833	\$0.9022	\$0.8622	\$0.9611	\$0.8944 ¢0.04EE	\$0.8300	\$0.8166	\$0.7988 \$0.7788	\$0.7955	\$0.8411	\$0.8900	\$0.9377	\$0.9744	\$0.9577	\$1.0655	\$1.0333	\$0.8977	\$0.9100	\$0.9677	\$0.9500	\$0.9255	\$0.8755	
ce with N Differ	Current Mont	SNF Cost for Delivered NFDM for	Current Month	\$1.1751	\$1.2494 \$1.3318	\$1.4580	\$1.5475	\$1.5998 \$1.6246	\$1.6470	\$1.6065	\$1.6172	\$1.7787	\$1.8193	\$1.8640	\$1.9321	\$1.9863	\$2.0528	\$2.1812	\$2.1930	\$2.1202	\$1.9735 ¢1 0606	\$1.9579	\$1.8827	\$1.5560 \$1 5747	\$1.4719	\$1.3329	\$1.1013	\$1.0920	\$1.0370	\$1.0143 \$0.9957	\$0.9011	\$0.8060	\$0.9614	\$0.9018	\$0.8524 cn eans	\$0.8313	\$0.8141	\$0.7920	\$0.8519	\$0.9008	\$0.9240 ¢0.0507	\$0.989.02	\$0.9788	\$1.0262 \$1.0222	\$1.0620	\$0.9142	\$0.9032	0805.04	\$0.9656	\$0.9390	\$0.9148 60 0736	\$0.8173	
FDM Pric		Current	Proposal 21 Class II SNF	\$1.1423	\$1.1545	\$1.2467	\$1.3645	\$1.5034	\$1.5356	\$1.5556	\$1.5145	\$1.4945 \$1.6278	\$1.6734	\$1.7034	\$1.7900	\$1.8245	\$1.8745	\$2.0145	\$2.0589	\$2.0867	\$1.9912 ¢1 0656	\$1.8412	\$1.8645	\$1.7912 \$1.4680	\$1.4978	\$1.4445	\$1.023	\$1.0189	\$1.0545	\$0.9467 \$0.9467	\$0.9345	\$0.8534	\$0.8134	\$0.9123	\$0.8456 ¢0.7067	\$0.7812	\$0.7678	\$0.7500 \$0.7300	\$0.7467	\$0.7923	\$0.8412 ¢0 ecm	\$0.8889	\$0.9256	\$0.9089 ¢n a580	\$1.0167	\$0.9845	\$0.8489 \$0.8280	\$0.8612 \$0.8612	\$0.9189	\$0.9012	\$0.8767 ¢0.0555	90.8267	-
DPSR N		Current Month	Announced Class II SNF	\$1.0467	\$1.0589	\$1.1511	\$1.2689	\$1.3478 \$1.4078	\$1.4400	\$1.4600	\$1.4189	\$1.5322	\$1.5778	\$1.6078	\$1.6944	\$1.7289	\$1.7789	\$1.9189	\$1.9633	\$1.9911	\$1.8956	\$1.7456	\$1.7689	\$1.6956 \$1 3733	\$1.4022	\$1.3489	\$0.9267	\$0.9233	\$0.9589	\$0.8511	\$0.8389	\$0.7578	\$0.7178	\$0.8167	\$0.7500	\$0.6856	\$0.6722	\$0.6344	\$0.6511	\$0.6967	\$0.7456	\$0.7933	\$0.8300	\$0.8133 ¢0.8633	\$0.9211	\$0.8889	\$0.7533 ¢0.7333	\$0.7656	\$0.8233	\$0.8056	\$0.7811	\$0.7311	
urrent N		SNF Cost for 6-Month Pre- Purchased	NFDM FOB Supplier	\$1.1673	\$1.3240	\$1.4503	\$1.5398	\$1.5921 \$1.6169	\$1.6393	\$1.5988	\$1.6095	\$1.7709	\$1.8115	\$1.8563	\$1.9243	\$1.9786	\$2.0451	\$2.1735	\$2.1853	\$2.1125	\$1.9658 ¢1 0510	\$1.9502	\$1.8749	\$1.5482 \$1.5670	\$1.4641	\$1.3252	\$1.0936	\$1.0842	\$1.0293	\$0.9879	\$0.8934	\$0.7982	\$0.8584 \$0.9537	\$0.8940	\$0.8446 ¢0 0236	\$0.8236	\$0.8064	\$0.7842 \$0.8152	\$0.8441	\$0.8931	\$0.9163	\$0.9816	\$0.9710	\$1.0185 \$1.0855	\$1.0542	\$0.9065	\$0.8955 ¢0.0202	\$0.9729 \$0.9779	\$0.9578	\$0.9312	\$0.9071 ¢0.0650	50.8096	
son of C		Purchase 6	Month Total Carry Cost	\$0.0300	\$0.0300	\$0.0300	\$0.0300	\$0.0300	\$0.0300	\$0.0300	\$0.0300	\$0.0300	\$0.0300	\$0.0300	\$0.0300	\$0.0300	\$0.0300	\$0.0300	\$0.0300	\$0.0300	\$0.0300 ¢0.0300	\$0.0300	\$0.0300	\$0.0300 \$0.0300	\$0.0300	\$0.0300	\$0.0300	\$0.0300	\$0.0300	\$0.0300	\$0.0300	\$0.0300	\$0.0300	\$0.0300	\$0.0300	\$0.0300	\$0.0300	\$0.0300 \$0.0300	\$0.0300	\$0.0300	\$0.0300 ¢0.0300	\$0.0300	\$0.0300	\$0.0300 \$0.0300	\$0.0300	\$0.0300	\$0.0300	0050.05	\$0.0300	\$0.0300	\$0.0300	00E0.0\$	
Compari		SNF cost per Pound from	NFDM FOB Supplier	\$1.1364	\$1.2931	\$1.4194	\$1.5089	\$1.5611 \$1.5860	\$1.6084	\$1.5678	\$1.5786	\$1.7400	\$1.7806	\$1.8254	\$1.8934	\$1.9476	\$2.0141	\$2.1426	\$2.1543	\$2.0815	\$1.9348 ¢1.0300	\$1.9193	\$1.8440	\$1.5173 \$1.5361	\$1.4332	\$1.2942	\$1.0518	\$1.0533	\$0.9984	\$0.9570	\$0.8625	\$0.7673	\$0.9228 \$0.9228	\$0.8631	\$0.8137 ¢0.0016	\$0.7927	\$0.7755	\$0.7533 \$0.7847	\$0.8132	\$0.8622	\$0.8854 ¢0.0121	20195072	\$0.9401	\$0.9875 \$1.0545	\$1.0233		\$0.8645 ¢0.8073	\$0.9420 \$0.9420	\$0.9269	\$0.9003	\$0.8762 ¢0.0240	\$0.7787	
ndix 1: C		NFDM	Average Price	\$1.1023	\$1.2543	\$1.3768	\$1.4636	\$1.5143 \$1.5384	\$1.5601	\$1.5208	\$1.5312	\$1.6374	\$1.7272	\$1.7706	\$1.8366	\$1.8892	\$1.9537	\$2.0783	\$2.0897	\$2.0191	\$1.8768	\$1.8617	\$1.7887	\$1.4718 \$1.4900	\$1.3902	\$1.2554	\$1.0202	\$1.0217	\$0.9684	\$0.9464 \$0.9283	\$0.8366	\$0.7443	\$0.8951	\$0.8372	\$0.7893 ¢0.7776	\$0.7689	\$0.7522	\$0.7307	\$0.7888	\$0.8363	\$0.8588	\$0.9222	\$0.9119	\$0.9579	\$0.9926	\$0.8493	\$0.8386 ¢0.0704	\$0.9137	\$0.8991	\$0.8733	\$0.8499	\$0.7553	
Appe			FMMO	Jun-12	Aup-12	Sep-12	Oct-12	Nov-12 Dec-12	Jan-13	Mar-13	Apr-13	May-13 Jun-13	Jul-13	Aug-13	oct-13 Oct-13	Nov-13	Dec-13	Feb-14	Mar-14	Apr-14	May-14	Jul-14	Aug-14	Sep-14 Oct-14	Nov-14	Dec-14	teh-15	Mar-15	Apr-15	dr-15	Jul-15	Aug-15	Oct-15	Nov-15	Dec-15	Feb-16	Mar-16	Apr-16 Mav-16	Jun-16	Jul-16	Aug-16	Oct-16	Nov-16	Dec-16	Feb-17	Mar-17	Apr-17	11-12	Jul-17	Aug-17	Sep-17	Nov-17	

Image: line state	Current Current Month Proposal 21 Class II SNF Class II SNF Class II SNF Class II SNF Class II SNF S0 7233 S0	rrent Month	SNF	st per Pound	Class II SNE Da	livered Cost vs.		urrent Delivere	od Cost ner	_		
Matrix Matrix<	Current Month Proposal 21 50.7283 50.7283 50.7235 50.7235 50.7235 50.7235 50.7235 50.7235 50.7235 50.7235 50.7235 50.7235 50.72555 50.7255555 50.7255555555555555555555555555555555555				Delivere	ed NFDM	Pound SN	F for 6 Months	Forward	6-Month Pre Delivered Ma	e-Purchased NFD rkets on a Per-Po	A vs Current und SNF Basis
Matrix Matrix<	Class II SNF Class II SNF 50, 6395 50, 6365 50, 7123 50, 7012 50, 7012 50, 7012 50, 7323 50, 7323 50, 7323 50, 7320 50, 7300	SNF Cost for Delivered NFDM for	Delivered Cost @	Class II SNF Delivered Cost @	Class II SNF Delivered Cost	Class II SNF Delive red Cost	SNF Cost for 6-Month Forward Avg.	6- Month Forward Avg. @ CURRENT	6- Month Forward Avg. @ PROP 21	Pre-Purchased	Pre-Purchased NFDM vs Delivered Class	Pre-Purchased NFDM vs Delivered Class
0 0	50.7229 50.6634 50.6667 50.7012 50.7012 50.7989 50.8234 50.8234	Month 1	Differential	Proposal 21 Differential	@ Current II Differential	@ Proposal 21 Differential	NDPSR	Class II SNF Price	Class II SNF Price	NFDM vs. Current NFDM	II SNF with Current Make	II SNF with Prop 21 Make
0 0	\$0.7123 \$0.6967 \$0.7012 \$0.7989 \$0.8234 \$0.7800	\$0.7690	\$0.7422	\$0.8378	\$0.0209 -\$0.0267	\$0.1165	\$0.8287 \$0.8434	\$0.77865	\$0.8821 \$0.8821	-\$0.0745	-\$0.0139	-\$0.1035
1 000	\$0.7012 \$0.7989 \$0.8234 \$0.7800	\$0.7741 \$0.7741	\$0.7455	\$0.8411	\$0.0046 -\$0.0286	\$0.1002	\$0.8883	\$0.8172	\$0.9128	-\$0.1046 -\$0.1142	-\$0.0444 -\$0.0431	-\$0.1386
1 0.00 0.	\$0.8234 \$0.7800	\$0.8569 \$0.8789	\$0.7500 \$0.8477	\$0.8456 \$0.9433	-\$0.1069 -\$0.0311	-\$0.0113 \$0.0644	\$0.9159 \$0.9318	\$0.8431 \$0.8711	\$0.9387 \$0.9667	-\$0.0590 -\$0.0529	\$0.0138 \$0.0078	-\$0.0818 -\$0.0878
0 0	00000	\$0.8453 \$0.8748	\$0.8722 \$0.8288	\$0.9678	\$0.0270	\$0.1225 \$0.0496	\$0.9467 \$0.9757	\$0.8857 \$0.8981	\$0.9813 \$0.9937	-\$0.1014 -\$0.1009	-\$0.0405 -\$0.0233	-\$0.1360 -\$0.1188
0 0	OULO.UC	\$0.9199	\$0.8588	\$0.9544	-\$0.0611	\$0.0345	\$1.0047	\$0.9229	\$1.0185	-\$0.0848	-\$0.0030	-\$0.0986
1 0.01 0.	\$0.8689	\$0.9521 \$0.9521	1106:0\$	\$1.0133	-\$0.0343	\$0.0612	\$1.0381	111 GE-DE	\$1.0641	-\$0.0861	-\$0.0164	-\$0.1120
1 0	\$0.8867 ¢n 8478	\$0.9686 \$1.0194	\$0.9355 \$n 9466	\$1.0311 \$1.0422	-\$0.0330	\$0.0625 <0.0228	\$1.0603 \$1.0845	\$0.9826 \$1.0037	\$1.0781 \$1.0993	-\$0.0651	-\$0.0140 \$0.0157	-\$0.1096 -\$1 0799
1 0	\$0.9289	\$1.0490	20.9777	\$1.0733	-\$0.0712	\$0.0243	\$1.0996	\$1.0270	\$1.1226	-\$0.0507	\$0.0219	-\$0.0736
1 0.001 0.0	\$0.9789 \$0.9567	\$1.0272	\$1.0277	\$1.1233	\$0.0005 -\$0.0270	\$0.0961 \$0.0685	\$1.1248	\$1.0468	\$1.1519	-\$0.0816 -\$0.0922	-\$0.0196 -\$0.0237	-\$0.1152 -\$0.1193
1 0.00 5.	\$0.9534	\$1.0849	\$1.0022	\$1.0978	-\$0.0827	\$0.0129	\$1.1474	\$1.0709	\$1.1665	-\$0.0625	\$0.0140	-\$0.0815
1 00000 0000 0000 0	\$1.0134	\$1.1140	\$1.0622	\$1.1578	-\$0.0518	\$0.0438	\$1.1713	\$1.0950	\$1.1906	-\$0.0573	\$0.0190	-\$0.0765
5000 5001 <td< td=""><td>\$1.0478 \$1.0478</td><td>\$1.1041</td><td>\$1.0966</td><td>\$1.1922</td><td>-\$0.0075</td><td>\$0.0881</td><td>\$1.2364</td><td>\$1.1444</td><td>\$1.2400</td><td>-\$0.1323</td><td>-\$0.0403</td><td>-\$0.1359</td></td<>	\$1.0478 \$1.0478	\$1.1041	\$1.0966	\$1.1922	-\$0.0075	\$0.0881	\$1.2364	\$1.1444	\$1.2400	-\$0.1323	-\$0.0403	-\$0.1359
1 0.00 0.	\$1.0356	\$1.1231	\$1.0844	\$1.1800	-\$0.0386	\$0.0569	\$1.2728	\$1.1754	\$1.2709	-\$0.1497	-\$0.0523	-\$0.1478
1 1	\$1.0445	\$1.1682	\$1.0933	\$1.1889	-\$0.0749	\$0.0207	\$1.2838	\$1.2109	\$1.3065	-\$0.1156	-\$0.0427	-\$0.1382
1 1.10 2.	\$1.0978 \$1.1434	\$1.2284 \$1.2924	\$1.1922 \$1.1922	\$1.2422 \$1.2878	-\$0.1001	\$0.0046 -\$0.0046	\$1.2073 \$1.2073	\$1.2057	\$1.3252	\$0.0851	\$0.0866	8960.0¢-
1 1	\$1.2045	\$1.3223	\$1.2533	\$1.3489	-\$0.0689	\$0.0266	\$1.1548	\$1.1550	\$1.2506	\$0.1675	\$0.1673	\$0.0717
1 0.000 0.0	\$1.2334	\$1.3225	\$1.2822	\$1.3778	-\$0.0402	\$0.0553	\$1.1078	\$1.1028	\$1.1983	\$0.2146	\$0.2197	\$0.1241
1 0.000 0.0	\$1.2489 c1 1c67	\$1.1892 c1 0324	\$1.2977 ¢1 20EE	\$1.3933 c1 2011	\$0.1086 \$0.1031	\$0.2041 \$0.3777	\$1.0591 c1.0305	\$1.0580	\$1.1535	\$0.1300	\$0.1312 c0.0127	\$0.0357
9000 <th< td=""><td>\$0.9545</td><td>\$0.9141</td><td>\$1.0033</td><td>\$1.0989</td><td>\$0.0892</td><td>\$0.1848</td><td>\$1.0587</td><td>\$0.9848</td><td>\$1.0804</td><td>-\$0.1445</td><td>-\$0.0707</td><td>-\$0.1663</td></th<>	\$0.9545	\$0.9141	\$1.0033	\$1.0989	\$0.0892	\$0.1848	\$1.0587	\$0.9848	\$1.0804	-\$0.1445	-\$0.0707	-\$0.1663
1 0.000 0.0	\$0.8389	\$0.9774	\$0.8877	\$0.9833	-\$0.0897	\$0.0059	\$1.0986	\$1.0028	\$1.0984	-\$0.1212	-\$0.0254	-\$0.1209
1 0	\$0.8912	\$1.0404	\$0.9400	\$1.0356	-\$0.1004	-\$0.0048	\$1.1303	\$1.0439	\$1.1395	-\$0.0899	-\$0.0035	-\$0.0991
0 0	\$0.9645	\$1.0303	\$1.0133	\$1.1089	-\$0.0170	\$0.0786	\$1.1583	\$1.0785	\$1.1741	-\$0.1280	-\$0.0482	-\$0.1438
1 0	\$0.9656	\$1.0710	\$1.0144	\$1.1100	-\$0.0566	\$0.0390	\$1.1848	\$1.1054	\$1.2009	-\$0.1138	-\$0.0343	-\$0.1299
1 1	\$1.0012	\$1.1587	\$1.1111 \$1.1111	\$1.2067	-\$0.0886	\$0.0530	\$1.2220	\$1.1500	\$1.2456	-\$0.0683	\$0.0049	-\$0.0906
0 5100 5100 5100 5100 5100 5100 5100 50	\$1.0856	\$1.1676	\$1.1344	\$1.2300	-\$0.0332	\$0.0624	\$1.2491	\$1.1663	\$1.2618	-\$0.0815	\$0.0014	-\$0.0942
0 5300 5306 5314 5310 5000 50	\$1.0989	\$1.2082	\$1.1477	\$1.2433	-\$0.0605	\$0.0351	\$1.2791	\$1.1887	\$1.2842	\$0.0708	\$0.0196	-\$0.0760
1 1 0	\$1.1256 \$1.1356	\$1.1896 \$1.1001	\$1.1744 \$1.1844	\$1.2700	-\$0.0151 -\$0.0057	\$0.0804 \$0.0804	\$1.2998 \$1.2755	\$1.2165 \$1 2268	\$1.3120	-\$0.1102	-\$0.0269 -\$0.0467	-\$0.1224 -\$0.1423
5 5130 5130 5130 5130 5130 5130 5130 5130 5000 50	\$1.0989	\$1.2428	\$1.1477	\$1.2433	-\$0.0950	\$0.0005	\$1.3538	\$1.2570	\$1.3526	-\$0.1110	-\$0.0142	-\$0.1098
0 51.71 51.200 51.401 51.401 51.401 51.401 51.401 51.401 51.401 51.401 51.401 50.001	\$1.1600	\$1.3162	\$1.2088	\$1.3044	-\$0.1073	-\$0.0118	\$1.3868	\$1.2866	\$1.3822	-\$0.0706	\$0.0295	-\$0.0660
0 5110 5140 5141 5140 5003 50	\$1.2200	\$1.3475	\$1.2688	\$1.3644	-\$0.0787	\$0.0169	\$1.4276	\$1.3172	\$1.4128	-\$0.0801	\$0.0303	-\$0.0652
1 512/12 512/16	\$1.2656	\$1.3327	\$1.3144	\$1.4100	-\$0.0182	\$0.0773	\$1.4753	\$1.3561	\$1.4517	-\$0.1426	-\$0.0234	-\$0.1190
5 5	\$1.2478	\$1.3438	\$1.2966	\$1.3922	-\$0.0472	\$0.0484	\$1.5429	\$1.4002	\$1.4957	-\$0.1991	-\$0.0564	-\$0.1519
0 513/8 513/6 503/1 500	51 2767	\$1 4405	51 3255	\$1.4211	-\$0.1150	-\$0.0412	\$1 7107 \$1 7107	51 5346	\$16302	-50.2.0¢-	- \$0.041	-50.18970
91 51.36 51	\$1.3434	\$1.5612	\$1.3922	\$1.4878	-\$0.1690	-\$0.0734	\$1.7917	\$1.6194	\$1.7150	-\$0.2304	-\$0.0582	-\$0.1538
1 1	\$1.4534	\$1.6336	\$1.5022	\$1.5978	-\$0.1314	-\$0.0358	\$1.8488	\$1.6989	\$1.7944	-\$0.2152	-\$0.0653	-\$0.1608
0 5,101 5,175 5,143 5,141 5,0410 5,003 5,306 5,306 5,003 5,006 5,	\$1.6145	\$1.8205	\$1.6633	\$1.7589	-\$0.1572	-\$0.0616	0126.15	\$1.8061	2000.14	-50.1004	\$0.0144	-50.0811
0 51.060 51.060 51.060 51.060 51.060 51.060 51.060 50.061	\$1.6967	\$1.8896	\$1.7455	\$1.8411	-\$0.1440	-\$0.0485	\$1.9108	\$1.8405	\$1.9361	-\$0.0212	\$0.0490	-\$0.0465
a 51.77.2 51.801 51.966 51.966 51.966 51.966 51.966 50.056	\$1.7856	\$1.9267	\$1.8344	\$1.9300	-\$0.0923	\$0.0033	\$1.8738	\$1.8426	\$1.9381	\$0.0529	\$0.0841	-\$0.0114
1 2732 5600 55	\$1.8200	\$1.9041	\$1.8688 c1 00 00	\$1.9644	-\$0.0353	\$0.0603	\$1.8309	\$1.8085 51.7575	\$1.9041	\$0.0732	\$0.0956 50.1125	\$0.0001
0 5173 51701 5170	\$1.81/8 \$1.8080	\$1.9104 \$1.9444	\$1.8577	\$1.9022	-\$0.0367	\$15UU\$	C8/ //T¢	\$1.717 \$1.717	\$1.8032 \$1 8072	6151.US	\$0.1428 \$0.1828	\$0.0473 \$0.0873
1 51.03 50.03 50.03 50.03 50.03 50.03 50.03 50.03 50.03 50.03 50.03 50.03 50.03 50.03 50.	\$1.8212 \$1.8212	\$1 7593	// cg.1¢	\$1 9656	\$0.1108	\$0.2063	\$1 642 7	\$1.6543	\$1 7498	121105	\$0.1050	5/ 90.06
8 \$12485 \$12481 \$12485 \$12481 \$12485 \$12481 \$12485 \$12481 \$12485 \$12481 \$12483 \$12483 \$12483 \$12483 \$12483 \$12483 \$12483 \$12483 \$12483 \$12483 \$12483 \$12483 \$12483 \$12483 \$12483 \$12483 \$12481 \$124833 \$12483 \$12483	\$1.7089	\$1.6678	\$1.7577	\$1.8533	\$0.0899	\$0.1855	\$1.5711	\$1.5833	\$1.6789	\$0.0968	\$0.0845	-\$0.0111
3 31.08 51.336 51.387 51.386 51.436 51.386 51.436 51.346 50.144 51.346 50.144 50.136 50.036 50.136	\$1.5812	\$1.6695	\$1.6300	\$1.7256	-\$0.0394	\$0.0561	\$1.5046	\$1.5052	\$1.6008	\$0.1649	\$0.1643	\$0.0687
9 51.367 51.487 51.487 51.487 51.442 51.487 51.478 50.013	\$1.5745	\$1.5897	\$1.6233	\$1.7189	\$0.0337	\$0.1292	\$1.4313	\$1.4441	\$1.5396	\$0.1584	\$0.1456	\$0.0501
N 1 51.3.00 51.3.86 51.4.87 51.3.86 51.3.86 51.3.86 51.3.86 51.3.86 51.3.86 51.3.86 51.3.86 50.005	\$1.4823	\$1.5396	\$1.5311	\$1.6267	-\$0.0084	\$0.0871	\$1.3705	\$1.3787	\$1.4743	\$0.1691	\$0.1609	\$0.0653
5 51140 51240 50001 50011 50010 50011 50010 50011 50010 50011 50010 50011 50010 50011 50010 50011 50010 50011 50010 50011 50010 50011 50010 50011 50010 50011 50010 50011 50010 50011 50010 50011 50010 50011 50010 50011 50010 50011 50010 50011 50011 50011 50011 500	\$1.4645	\$1.44/1 \$1 3328	\$1.5133 \$1.4444	\$1.6089 \$1.5400	\$0.0662	\$0.1618 \$0.2072	\$1.3209 \$1.2841	\$1.3231 \$1.735	\$1.4187	\$0.1262	\$0.1240 \$0.0593	\$0.0284
8 51188 51146 51236 51389 51333 50000 50010 500	\$1.2400	\$1.2691	\$1.2888	\$1.3844	\$0.0198	\$0.1153	\$1.2639	\$1.2355	\$1.3311	\$0.0052	\$0.0335	-\$0.0620
1 31.0867 31.1832 32.2347 31.2117 31.2367 31.2367 31.2367 31.2367 30.0361 30.	\$1.2145	\$1.2295	\$1.2633	\$1.3589	\$0.0339	\$0.1294	\$1.2505	\$1.2178	\$1.3133	-\$0.0210	\$0.0117	-\$0.0838
1 311031 51148 51.242 51.343 51.345 51.345 51.345 51.345 51.345 51.345 50.046 50.035 50.046 50.035 50.046 50.035 50.046 50.035 50.046 50.035 50.046 50.046 50.046 50.046 50.046 50.046 50.046 50.046 50.046 50.046 50.046 50.046	\$1.1823	\$1.2247	\$1.2311	\$1.3267	\$0.0064	\$0.1020	\$1.2506	\$1.2026	\$1.2982	-\$0.0258	\$0.0221	-\$0.0734
0 511021 51133 51145 51111 500161 51101 511301 500051 500161 511301 500051 500161 511301 500051 500051 511301 500051 500051 511301 500051 500051 511301 500051 511301 511301 500051 511301 511301 500051 511301 511301 500051 511301 500051 511301 500051 511301 500051 511301 500051 500051 511301 500051 500051 500051 500051 500051 500051 500051 500051 500051 500051 500051 500051	51.1489 51.1459	\$1.2422 61 3365	1/61.15	\$1.2933	->0.0444	1150.05	/957.15	6661.14 1100 13	1162.1¢	->0.0145	\$0.035.4	-50.0489
0 51070 51134 51392 51390 51480 51390 51480 51390 51480 51390 51480 51390 51480 51390 51480 51390 51480 51390 51480 50198 50198 50198 50198 50198 50198 50198 50198 50198 50199 50198 50198 50199 50198 50198 50199 50198 50198 50198 50198 50198 50199 50198 501	51.1678	\$1.2112	\$1.2166	\$1.3122	\$0.054	\$0.1010	51.2619	\$1.1982	51.2938			1010-00-
5 31203 51124 51203 51124 51293 51293 51349 51393 51490 51393 51490 51393 51490 51393 51490 51393 51490 51393 51490 51393 51490 51393 51490 51393 51490 51493 51490 51313 51361 51363 51313 51361 51363 51491 51493 51043 50039 50043 50043 50043 50043 50043 50043 50043 50043 50043 50043 50043 50043 500	\$1.1334	\$1.1887	\$1.1822	\$1.2778	-\$0.0064	\$0.0891	\$1.3792	\$1.2964	\$1.3920			
6 \$1,144 \$1,140 \$1,253 \$1,344 \$1,443	\$1.1234	\$1.2302	\$1.1722	\$1.2678	-\$0.0580	\$0.0376	\$1.5138	\$1.4340	\$1.5295			
x 11:00:0 11:0	\$1.1400	\$1.2613	\$1.1888	\$1.2844	-\$0.0725	\$0.0231	\$1.4614	\$1.3993	\$1.4948			
1 51,233.1 51,263 51,661 51,263 51,263 51,263 51,263 51,263 51,263 51,263 51,263 51,263 50,264 50,264 50,264 50,264 50,264 50,264 50,264 50,264 50,264 50,264 50,264 50,264 50,264 50,264 50,264 50,0064 50,004 50,004 <td>64 CEOC</td> <td>C 102.14</td> <td>11C7.10</td> <td>107074</td> <td>50000 c</td> <td>\$0,00E0</td> <td>0.000.44</td> <td>24 DU 43</td> <td>0.0000 F2</td> <td>60.130<i>6</i></td> <td>60.0003</td> <td>60 1010</td>	64 CEOC	C 102.14	11C7.10	107074	50000 c	\$0,00E0	0.000.44	24 DU 43	0.0000 F2	60.130 <i>6</i>	60.0003	60 1010
1 30846 50.066 50.061 50.061 50.064	\$1.8212	\$1.8616	\$1.8701	1000.10	\$0.0085	\$0.1041	269915	\$1.6834	\$1.7789	\$0.1918	\$0.1782	\$0.0826
1 \$7733 \$50434 \$50385 \$50393 \$50934 \$50983 \$50033   0 \$57793 \$56345 \$50385 \$50393 \$50974 \$50983 \$50974 \$50983 \$50974 \$50083 <td< td=""><td>\$0.9498</td><td>\$0.9681</td><td>\$0.9987</td><td>\$1.0943</td><td>\$0.0306</td><td>\$0.1261</td><td>\$0.9447</td><td>\$0.9298</td><td>\$1.0253</td><td>\$0.0234</td><td>\$0.0384</td><td>-\$0.0572</td></td<>	\$0.9498	\$0.9681	\$0.9987	\$1.0943	\$0.0306	\$0.1261	\$0.9447	\$0.9298	\$1.0253	\$0.0234	\$0.0384	-\$0.0572
3 \$2,0706 \$2,0306 \$2,0305 \$2,0036 \$2,0036 \$2,0035 \$2,0035 \$2,0035 \$2,0035 \$2,0035 \$2,0035 \$2,0035 \$2,0035 \$2,0035 \$2,0035 \$2,0035 \$2,0035 \$2,0035 \$2,0	\$0.8149	\$0.8935	\$0.8638	\$0.9593	-\$0.0297	\$0.0658	\$0.9627	\$0.9013	\$0.9968	-\$0.0692	-\$0.078	-\$0.1033
0 30683 \$50.733 \$50.857 \$50.857 \$50.056 \$50.046 \$50.017 \$50.874 \$50.0664 \$50.017 \$50.8	\$0.8861	\$0.9320	\$0.9350	\$1.0306	\$0.0030	\$0.0985	\$0.9111	\$0.8837	\$0.9793	\$0.0209	\$0.0483	-\$0.0473
11 503597 \$11128 \$1,1289 \$1,1289 \$1,1289 \$1,1289 \$1,1289 \$1,1289 \$1,1289 \$1,1289 \$1,1289 \$1,1289 \$1,1289 \$1,1289 \$1,1289 \$2,0039 \$2,00	\$0.7793	\$0.8577	\$0.8282	\$0.9238	-\$0.0295	\$0.0661	\$0.9431	\$0.8749	\$0.9704	-\$0.0854	-\$0.0172	-\$0.1127
96 91.128 51.116 51.128 50.0139 50	\$1.0113 61 0105	\$1.1128 64 44 76	\$1.0602 61 0001	\$1.1557	-\$0.0526	\$0.0429 60.0021	\$1.1831	\$1.1152	\$1.2108	-50.0703	-50.0024	-50.0980
8.1 5.13/12 5.17/16 5.17/16 5.17/16 5.17/16 5.17/16 5.17/17 5.17/17 5.17/17 5.17/17 5.17/17 5.17/17 5.17/17 5.17/17 5.17/17 5.17/17 5.17/17 5.17/17 5.17/17 5.17/17 5.17/17 5.17/17 5.17/17 5.11/17 5.11/17 5.11/17 5.11/17 5.11/17 5.11/17 5.11/17 5.11/17 5.11/17 5.11/17 5.11/17 5.11/17 5.11/17 5.11/17 5.11/17 5.11/17 5.11/17 5.11/17 5.11/17 5.00281 5.00281 5.00281 5.00181 5.	31, 2226	0711.14	0660.1¢	0661.14	TCTD/DC-	6700.0¢	01 EDEA	1200.15	20/175	-\$0.0204	-cn 0330	1000.005-
32 \$1117 \$1.233 \$1.360 \$1.3577 \$00012 \$00057 \$1.3245 \$1.3755 \$00120 \$00661 \$00855   Clip Factor, Current v6 Konth Advancet. Average Month Pfference \$00012 \$00567 \$1.3245 \$1.3759 \$1.3755 \$00120 \$00661 \$00855   Clip Factor, Current v6 Konth Advancet. Average Month Pfference \$00028 \$00588 \$0.0588 \$0.0588 \$0.0581 \$0.0507 \$0.0207 \$0.0617 \$0.0657   Current v6 Konth Advancet. Lowest Monthly Difference \$0.0014 \$0.3310 \$0.3310 \$0.34	\$1.6868	51.7758 \$1.7758	9327.15	\$1.8312	-\$0.0402	\$0.0554	\$1 7034	1100:10	217707	\$00770	\$0.1007	\$0.0051
Circle Factors, Circle Factors, Current se Month Advanced: Average Monthly Difference 500.2018 500.058 500.029 50	\$1.2132	\$1.2609	\$1.2621	\$1.3577	\$0.0012	\$0.0967	\$1.3243	\$1.2759	\$1.3715	\$0.0120	\$0.0461	-\$0.0495
Concert vs 6 Month Advanced. Aver age Monthly Difference 50028 500375 500377 500376											1	
Outrent vs 6 Month Advancet: signits in MVP) Officence 50.2341 50.2376 50.2379 50.2376 5	Current vs 6-Mon	th Advanced: Av	ver age Monthly	/ Difference	-\$0.0298	\$0.0658				-\$0.0287	\$0.0299	-\$0.0657
Current vs 6 Month Advanced: Lowert Vonchty Officence 50.184 -50.067 50.770 50.7161 50.2171 50.1151 -50.2101 50.1151 50.2161 50.2161 50.2161 50.2161 50.2161 50.2176 50.	Current vs 6-Mon	th Advanced: Hi	ighest Monthly	Difference	\$0.2841	\$0.3796				\$0.3679	\$0.2766	\$0.1810
Untertities howing agained sandard begation JUUG4 </td <td>Current vs 6-Mon</td> <td>th Advanced: Lo</td> <td>owest Monthly I</td> <td>Difference</td> <td>-\$0.1834</td> <td>-\$0.0878</td> <td></td> <td></td> <td></td> <td>-\$0.2701</td> <td>-\$0.1151</td> <td>-\$0.2107</td>	Current vs 6-Mon	th Advanced: Lo	owest Monthly I	Difference	-\$0.1834	-\$0.0878				-\$0.2701	-\$0.1151	-\$0.2107
ZS ZS S6 111   Months Higher than NEDM Cost 114 78 23   TransMonths 134 34 34				5	100000	±0.000				C777.0¢	0110.00	Br Ininé
Month High than NFDM Cost 114 23 23   TransMonthy 139 134 134						25					56	111
TotalMonths 134 134	Months Higher th	nan NFDM Cost				114					78	23
	Total Months					139					134	134
_		\$ 9,0355, \$ 9,0355, \$ 9,0355, \$ 9,0355, \$ 9,0355, \$ 9,0035, \$ 9,0002, \$ 9,0002, \$ 9,0002, \$ 9,0002, \$ 9,0000, \$ 1,00	\$10,995 \$0,0444   \$10,995 \$0,0744   \$10,995 \$0,0744   \$10,995 \$1,0002   \$10,995 \$1,0002   \$10,995 \$1,0002   \$11,997 \$1,0002   \$11,996 \$1,1976   \$11,996 \$1,1976   \$11,996 \$1,1976   \$11,996 \$1,1976   \$11,996 \$1,1976   \$11,996 \$1,1976   \$11,996 \$1,1976   \$11,996 \$1,1976   \$11,996 \$1,1976   \$11,996 \$1,1976   \$11,996 \$1,1976   \$11,996 \$1,1976   \$11,996 \$1,1976   \$11,996 \$1,1976   \$11,996 \$1,1976   \$11,996 \$1,1976   \$11,997 \$1,1976   \$11,998 \$1,1976   \$11,998 \$1,1978   \$11,998 \$1,1978   \$11,998 \$1,1978   \$11,998 \$1,1978   \$11,998 <	50.945 50.914 50.935   50.932 50.974 50.837   50.932 50.974 50.837   50.945 51.970 50.944   51.0023 51.1877 51.111   51.0023 51.1877 51.111   51.005 51.1877 51.111   51.005 51.1877 51.111   51.005 51.1877 51.111   51.006 51.3072 51.147   51.006 51.3075 51.147   51.006 51.3075 51.147   51.1266 51.3075 51.147   51.1266 51.3075 51.147   51.1266 51.3075 51.147   51.1267 51.110 51.305   51.1266 51.302 51.306   51.1266 51.302 51.306   51.1266 51.302 51.306   51.1266 51.302 51.306   51.1266 51.302 51.306   51.1266 51.306 51.306 <t< td=""><td>50383 5074 50033 50036   50382 50041 50031 50036   50082 51004 50000 51036   51086 51003 51036 51106   51086 51003 51036 51106   51086 51,807 51004 50900 51066   51,005 51,807 51,003 51066 51,306   51,005 51,807 51,003 51,306 51,307   51,006 51,302 51,304 51,200 51,306   51,306 51,302 51,304 51,200 51,304   51,306 51,302 51,304 51,200 51,304   51,306 51,301 51,302 51,404 51,200   51,306 51,301 51,304 51,306 51,301   51,306 51,301 51,303 51,306 51,301   51,306 51,301 51,301 51,301 51,301   51,306 51,301 51,301 51,301</td><td>50389 5074 5089 50080   50830 50074 5083 50080   50802 51004 50806 50080   51066 51004 50800 50080   51066 51107 51106 50006   51106 51106 51004 50006   51106 51107 51100 50006   51106 51167 51111 51200 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51200 50080 50080 51283   51005 5157 5111 51200 50080 50083 51283   51005 5158 51344 51209 50080 50083 51280   51005 5138 51348 51209 50083 50083 51280   51005 5138 51348 51209 50083 51280 50083 51280   51136 51305 51348 51209 50083 51280 51280   51136 51305 51348 51280 50083 51280 51280   51136 51305 51318 51280 50083 51280 51281   511381 </td <td>50080 50041 50081 50080 <th< td=""><td>90065 90041 90087 90087 90086 90084 90086 <th< td=""><td>00000 00001 00001 000000 00000 00000 &lt;</td><td>9004 <!--</td--></td></th<></td></th<></td>	50080 50041 50081 50080 <th< td=""><td>90065 90041 90087 90087 90086 90084 90086 <th< td=""><td>00000 00001 00001 000000 00000 00000 &lt;</td><td>9004 <!--</td--></td></th<></td></th<>	90065 90041 90087 90087 90086 90084 90086 <th< td=""><td>00000 00001 00001 000000 00000 00000 &lt;</td><td>9004 <!--</td--></td></th<>	00000 00001 00001 000000 00000 00000 <	9004 </td

Month &	Midwestern	Northeastern	Midwest vs NE	Percent
Year	Cream	Cream	Cream	Difference:
Jan 19	\$2.6433	\$2.4925	\$0.1508	6.1%
Feb 19	\$2.6582	\$2.5644	\$0.0938	3.7%
Mar 19	\$2.7342	\$2.6702	\$0.0640	2.4%
Apr 19 May 10	\$2.8389	\$2.8091	\$0.0298	1.1%
lun 19	\$2.9054	\$3.0064	-\$0.0450	-1.5%
Jul 19	\$3 2017	\$3 2332	-\$0.0315	-1.0%
Aug 19	\$3.1863	\$3.2220	-\$0.0357	-1.1%
Sep 19	\$2.8671	\$2.8544	\$0.0127	0.4%
Oct 19	\$2.7666	\$2.7467	\$0.0199	0.7%
Nov 19	\$2.6539	\$2.6664	-\$0.0125	-0.5%
Dec 19	\$2.4136	\$2.3665	\$0.0471	2.0%
Jan 20	\$2.3045	\$2.1614	\$0.1431	6.6%
Feb 20	\$2.1408	\$2.0461	\$0.0947	4.6%
Mar 20	\$2.0912	\$1.9637	\$0.1275	6.5%
Apr 20	\$1.1746	\$0.9716	\$0.2030	20.9%
May 20	\$1.7044	\$1.5989	\$0.1055	6.6%
Jun 20	\$2.5417	\$2.5839	-\$0.0422	-1.6%
Jul 20	\$2.5992	\$2.3760	\$0.0212	0.9%
Sen 20	\$1 9845	\$2.1107	-\$0.0338	-1 7%
Oct 20	\$1.9745	\$2.0197	-\$0.0452	-2.2%
Nov 20	\$1.8287	\$1.8622	-\$0.0335	-1.8%
Dec 20	\$1.7103	\$1.6707	\$0.0396	2.4%
Jan 21	\$1.6620	\$1.5974	\$0.0646	4.0%
Feb 21	\$1.6328	\$1.5804	\$0.0524	3.3%
Mar 21	\$2.0759	\$2.0956	-\$0.0197	-0.9%
Apr 21	\$2.3695	\$2.4343	-\$0.0648	-2.7%
May 21	\$2.4217	\$2.4388	-\$0.0171	-0.7%
Jun 21	\$2.3705	\$2.3914	-\$0.0209	-0.9%
Jul 21	\$2.2554	\$2.2454	\$0.0100	0.4%
Aug 21	\$2.2193	\$2.2163	\$0.0030	0.1%
Sep 21	\$2.3985	\$2.4290	-\$0.0305	-1.3%
Nov 21	\$2.4019	\$2.4458	-\$0.0439 \$0.0220	-1.8%
Dec 21	\$2.8021	\$2.7032	-\$0.0323	-0.4%
lan-22	\$3 5290	\$3 3388	\$0 1902	5.7%
Feb-22	\$3.3252	\$3.2912	\$0.0340	1.0%
Mar-22	\$3.5377	\$3.6138	-\$0.0761	-2.1%
Apr-22	\$3.5462	\$3.7119	-\$0.1657	-4.5%
May-22	\$3.5461	\$3.6609	-\$0.1148	-3.1%
Jun-22	\$3.8831	\$4.0169	-\$0.1338	-3.3%
Jul-22	\$3.9970	\$4.1793	-\$0.1823	-4.4%
Aug-22	\$4.4241	\$4.6154	-\$0.1913	-4.1%
Sep-22	\$4.3164	\$4.6687	-\$0.3523	-7.5%
Oct-22	\$4.1936	\$4.4704	-\$0.2768	-6.2%
Nov-22	\$3.7356	\$3.9956	-\$0.2600	-6.5%
Jan-23	\$3.2734	\$3.4377	-30.1645 \$0.0578	-3.3%
Feb-23	\$2.9037	\$2.9648	-\$0.0611	-2.1%
Mar-23	\$2.9656	\$3.0162	-\$0.0506	-1.7%
Apr-23	\$2.9629	\$3.0219	-\$0.0590	-2.0%
May-23	\$3.0690	\$3.1271	-\$0.0581	-1.9%
Jun-23	\$3.0436	\$3.1208	-\$0.0772	-2.5%
Jul-23	\$3.2974	\$3.4771	-\$0.1797	-5.2%
Aug-23	\$3.7712	\$3.8732	-\$0.1020	-2.6%
Sep-23	\$3.6792	\$3.8952	-\$0.2160	-5.5%
Uct-23	\$4.4488	\$4.6616	-\$0.2128	-4.6%
NOV-23	\$3.6111	\$3.5841	\$U.UZ/U	U.8%
Dec-23	\$2.38/3	\$5.0207	-20.0328	-1.170
2019	\$2.8349	\$2.8162	\$0.0188	0.8%
2020	\$1.9984	\$1.9488	\$0.0496	3.5%
2021	\$2.2828	\$2.2864	-\$0.0037	0.0%
2022	\$3.7756	\$3.9184	-\$0.1428	-3.4%
2023	\$3.3UIU	ə3.3814	-วุบ.บอบ4	-2.2%
2019-2023	Midwestern	Northeastern	Midwest vs NE	Percent
Statistics	Cream	Cream	Cream	Difference:
Average	2.7295	2.7483	-0.0188	0.2%
	4.4241	4.008/	-0 3523	-7 5%
STDEV	0 7464	0.8794	0.3323	-7.5% 4.5%
Sources:	https://www.ams.usda.go	v/market-news/dairy-mark	et-news-weekly-summary-	and-monthly-averages

#### Appendix 2: Monthly Midwestern and Northeastern Cream Prices, as Reported by USDA-AMS Dairy Market News, 2019-2023

#### Appendix 3: USDA-AMS Dairy Market News Monthly Northeast Condensed Skim & FMMO Class II SNF Prices, 2019-2023

						Deviation
				Deviation		from '19-'23
	NE Class II		Difference:	from '19-'23	Difference	Average Mo.
Month & Year	Skim	II SNF	Skim vs II SNF	Difference	(9# SNF/Cwt)	Cwt.
Jan 19	\$0.7567	\$0.8022	-\$0.0455	-\$0.0332	-\$0.41	-\$0.30
Feb 19	\$0.7342	\$0.8333	-\$0.0991	-\$0.0868	-\$0.89	-\$0.78
Mar 19	\$0.7679	\$0.8833	-\$0.1154	-\$0.1031	-\$1.04	-\$0.93
Apr 19	\$0.8330	\$0.8611	-\$0.0281	-\$0.0158	-\$0.25	-\$0.14
May 19	\$0.8023	\$0.8578	-\$0.0555	-\$0.0432	-\$0.50	-\$0.39
Jun 19	\$0.7750	\$0.9178	-\$0.1428	-\$0.1305	-\$1.29	-\$1.17
Jul 19	\$0.7841	\$0.9422	-\$0.1581	-\$0.1458	-\$1.42	-\$1.31
Aug 19 Sep 19	\$0.7660	\$0.9522	-\$0.1050	-\$0.1515	-\$1.47	-\$1.50
Oct 19	\$1,0100	\$0.9489	\$0.0782	\$0.0734	\$0.55	\$0.66
Nov 19	\$1.0100	\$1.0022	\$0.0078	\$0.0201	\$0.07	\$0.18
Dec 19	\$0.9571	\$1.0478	-\$0.0907	-\$0.0784	-\$0.82	-\$0.71
Jan 20	\$0.8690	\$1.1089	-\$0.2399	-\$0.2276	-\$2.16	-\$2.05
Feb 20	\$0.9000	\$1.1378	-\$0.2378	-\$0.2255	-\$2.14	-\$2.03
Mar 20	\$0.8500	\$1.1533	-\$0.3033	-\$0.2910	-\$2.73	-\$2.62
Apr 20	\$0.4341	\$1.0611	-\$0.6270	-\$0.6147	-\$5.64	-\$5.53
May 20	\$0.6638	\$0.8589	-\$0.1951	-\$0.1828	-\$1.76	-\$1.65
Jun 20	\$0.8273	\$0.7433	\$0.0840	\$0.0963	\$0.76	\$0.87
Jul 20	\$0.8500	\$0.7956	\$0.0544	\$0.0667	\$0.49	\$0.60
Aug 20	\$0.9071	\$0.8689	\$0.0382	\$0.0505	\$0.34	\$0.45 \$0.67
Sep 20	\$0.9521	\$0.8700	\$0.0621	\$0.0744	\$0.50	\$0.87 \$0.90
Nov 20	\$1.0684	\$0.9667	\$0.0873 \$0.1017	\$0.0330 \$0.1140	\$0.79	\$0.90 \$1.03
Dec 20	\$0.7091	\$0.9900	-\$0.2809	-\$0.2686	-\$2.53	-\$2.42
Jan 21	\$0.5263	\$1.0033	-\$0.4770	-\$0.4647	-\$4.29	-\$4.18
Feb 21	\$0.5000	\$1.0300	-\$0.5300	-\$0.5177	-\$4.77	-\$4.66
Mar 21	\$0.5663	\$1.0400	-\$0.4737	-\$0.4614	-\$4.26	-\$4.15
Apr 21	\$0.9420	\$1.0033	-\$0.0613	-\$0.0490	-\$0.55	-\$0.44
May 21	\$0.9750	\$1.0644	-\$0.0894	-\$0.0771	-\$0.80	-\$0.69
Jun 21	\$0.8761	\$1.1244	-\$0.2483	-\$0.2360	-\$2.23	-\$2.12
Jul 21	\$0.9045	\$1.1700	-\$0.2655	-\$0.2532	-\$2.39	-\$2.28
Aug 21	\$0.9795	\$1.1522	-\$0.1727	-\$0.1604	-\$1.55	-\$1.44
Oct 21	\$1.0595	\$1.1011	-\$0.1218	-\$0.1095	-\$1.10	-\$0.99
Nov 21	\$1 1598	\$1 2478	-\$0.0323	-\$0.0757	-\$0.79	-\$0.68
Dec 21	\$1.5350	\$1.3578	\$0.1772	\$0.1895	\$1.59	\$1.71
Jan 22	\$1.6095	\$1.4344	\$0.1751	\$0.1874	\$1.58	\$1.69
Feb 22	\$1.6992	\$1.5189	\$0.1803	\$0.1926	\$1.62	\$1.73
Mar 22	\$1.7750	\$1.6011	\$0.1739	\$0.1862	\$1.57	\$1.68
Apr 22	\$1.8607	\$1.6900	\$0.1707	\$0.1830	\$1.54	\$1.65
May 22	\$1.8950	\$1.7244	\$0.1706	\$0.1829	\$1.54	\$1.65
Jun 22	\$1.8950	\$1.7222	\$0.1728	\$0.1851	\$1.56	\$1.67
Jul 22	\$1.8950	\$1.7133	\$0.1817 \$0.1292	\$0.1940	\$1.64	\$1.75 \$1.26
Sen 22	\$1,7590	\$1.6133	\$0.1383	\$0.1580	\$1.24	\$1.30
Oct 22	\$1.6620	\$1.4856	\$0.1764	\$0.1887	\$1.59	\$1.70
Nov 22	\$1.6415	\$1.4789	\$0.1626	\$0.1749	\$1.46	\$1.57
Dec 22	\$1.5605	\$1.3867	\$0.1738	\$0.1861	\$1.56	\$1.67
Jan 23	\$1.5217	\$1.3689	\$0.1528	\$0.1651	\$1.38	\$1.49
Feb 23	\$1.4582	\$1.3000	\$0.1582	\$0.1705	\$1.42	\$1.53
Mar 23	\$1.3107	\$1.1444	\$0.1663	\$0.1786	\$1.50	\$1.61
Apr 23	\$1.2875	\$1.1189	\$0.1686	\$0.1809	\$1.52	\$1.63
May 23	\$1.2523	\$1.0867	\$0.1656	\$0.1779	\$1.49	\$1.60
Jun 23	\$1.2298	\$1.0533	\$0.1765	\$0.1888	\$1.59	\$1.70
Jul 23	\$1.2450	\$1.0711	\$0.1739	\$0.1862 \$0.1700	\$1.57	\$1.68
Sen 23	\$1.2398	\$1.0722	\$0.1070	\$0.1733 \$0.1870	\$1.51	\$1.02
Oct 23	\$1,2083	\$1.0278	\$0.1805	\$0.1928	\$1.62	\$1.74
Nov 23	\$1.2245	\$1.0444	\$0.1801	\$0.1924	\$1.62	\$1.73
Dec 23	\$1.2690	\$1.0867	\$0.1823	\$0.1946	\$1.64	\$1.75
2019	\$0.8401	\$0.9157	-\$0.0757	-\$0.0634	-\$0.68	-\$0.57
2020	\$0.8337	\$0.9550	-\$0.1214	-\$0.1091	-\$1.09	-\$0.98
2021	\$0.9244	\$1.1280	-\$0.2036	-\$0.1913	-\$1.83	-\$1.72
2022	\$1.7597	\$1.5912	\$0.1685	\$0.1808	\$1.52	\$1.63
2023	\$1.2883	\$1.1177	\$0.1/06	ŞU.1829	\$1.54	\$1.65
Average	\$1 1202	\$1 1415	-\$0.0122	\$0.0000	-\$0.11	\$0.00
High	\$1.8950	\$1.7256	\$0,1823	\$0.1946	\$1.64	\$1.75
Low	\$0.4341	\$0,7433	-\$0,6270	-\$0,6147	-\$5.64	-\$5.53
STDEV	\$0.3962	\$0.2653	\$0.2067	\$0.2190	\$1.86	\$1.97
Sources:	https://www.am	s.usda.gov/sites/c	lefault/files/media/	DY2022AnnualSum	mary.pdf	
	https://myma 01/789988/ar	arketnews.ams ms_1623_0005	.usda.gov/filer 2_01.pdf	epo/sites/defau	Ilt/files/1623/2	<u>2023-01-</u>