## 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	
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

	rs Current d SNF Basis	Pre-Purchased	NFDM vs Delivered Class	II SNFwith Prop ZI Make	\$02107	-501873	\$01273	\$0.0898	500457	\$004tt	-\$00714	\$01558	\$0.0922	200052	-\$0.0937	\$01065	501230	\$0.0842	50.0605	2/6005	\$0.0690	500233	\$01622	\$01810	501422	\$01083	501038	\$0003	500151	100005	\$00175	50.0952	50.0972	\$0005	\$00706	\$0.0642	501016	\$01375	\$01297	South Sector	\$01160	\$01185	\$7010¢
	6-Month Pre-Purchased NFDM vs Current Delivered Markets on a Per-P ound SNF Basis	8	NFDM vs Delivered Class De	II SNF with Current Make		50.0918			50.0835	t		\$0.0602				-\$0.010				\$0.1928	_	50.1209					50.062		\$0.0805		\$0.0781			\$0.0931			\$0.0212	_	_		-\$0.0204	_	-20.00v
	6-Month Pre-P Delivered Marku		Pre-Purchased D	NFDM vs. Current NFDM	90.2485	-20,2330		-90.0938	-90.0012	90.0528	-\$0.0858 An 16.00		_		_	-\$0.1587		-\$0.0865	\$0.0013	20.2485	90.1819	20.1253	20.2986	\$0.3679	\$0.2675	\$0.2543	20.0053	20.0178	\$0.0876 \$0.0876	20.0605	\$0.0607	-90.0000	1110.00	90.0646	1000.00	90.0151	90.0842		-90.1137				40.0012
	t per Pound ard	6- Month	@ PROP 21 P	Class II SNF Price	1	\$15191	_	_	516619	F	\$17341	517730	\$1,8189	519150 519150	_	\$2.0096	_	+	\$21356	\$2.0958	\$2.0511	519482	\$17958	\$17017	\$14326	\$13635	\$11922	\$11352	511070	\$1.0224	\$10132	\$09963	\$03613	\$09639	062605	\$03065	\$0.9057	1005	\$09526	50.960.2	\$10400	\$10692	2 HOURS
	e Current Delivered Cost pe SNF for 6 Months Forward		6 CURRENT (	Class II SNF Price	\$1.2902	\$1.4235	\$1.4398	\$1.5413	51.5748	\$1.5956	\$1.6185	\$1.6774	\$1.7233	51.0783	\$1.8622	\$1.9141	\$2.0137	\$2.0115	\$2.0400	\$2.0002	\$1.956	\$1.8526	\$1.7002	\$1.6061	0/88-TC	\$1.2680	\$1.0967	\$1.0396	\$1.0115	\$0.9269	\$0.9176	\$0.9008	\$0.0658	\$0.8683	50.8274	\$0.8109	\$0.8102	\$0.8339	\$0.8570	\$0.0896 \$0.0467	\$0.9444	\$0.9737	20.901
	Average Current Delivered Cost per Pound SNF for 6 Months Forward	*	Forward Avg.	MOTIN	\$1.4236	\$15648	\$16166	\$16414	51.6741	\$16938	\$17285	518148	\$18673	51956B	\$2,0009	\$2.0618	\$21434	\$21398	\$2.1238	\$2.0445	\$1.9383	51.7638	\$1.6593	\$15148	\$13072	\$12176	\$10851	\$10536	\$10043	\$0.9538	\$03350	\$09010	\$03052	\$03960	50.8555	\$03554	\$03800	203037	\$09366	\$0.96.26 \$0.4446	\$10237	\$10467	00010
23	ered Cost vs. VRDM		Class II SNF Delivered Cost	@ Proposal 21 Differential	20.1116	\$0.029	6990'06	50.0366	50.0212	20.0310	\$0.0540 \$0.0540	50.0417	\$0.0878	000000	90.0362	6000006-	\$0.0174	90.039	-90.0607	\$0.0103	\$0.1109	20.0504	20.0277	\$0.1362	\$0.0386	\$0.1703	20.3307	20.0654	\$0.0713 50.0713	\$0.0979	\$0.0554	\$0.1778 \$0.1948	20.026	\$0.0086	50.1376	\$0.1008	\$0.0943	\$0.1024	90.0515	20.0392	20.0616	\$0.0437	50.04d
Differentials, June 2012 - July 2023	Class II SNF Delivered Cost vs. Delivered NFDM		Delivered Cost D	@ Current II @ Differential		-501284	_		-901005			665005-				-\$0.0964			-\$011562		\$00153	50.061	-50.0679	100005	-20.0570	\$00748	502351		50.0242			\$0.08.22 \$0.09.63	511	-\$0.0902	50.0421		50,003			-500005	_	-50.0519	ettoda
June 201		Class II SNF	C ost @ C	Proposal 21 Differential	\$12867	\$129@)	116215	\$15000	516478	\$16800	\$16967	\$16589	\$1.6320	51.8178	\$1.8478	\$19022	\$19689	\$2.0129	\$2.0744	\$22033	\$22311	\$2.0100	\$1.9856	\$2,0089	516133	\$16422	\$1.4211 \$1.4211	\$11667	\$11633	\$11122	\$1.0911	\$10789	1968.05	87 20.05 78	006605	\$03411	\$09122	\$0.894M	\$08744	116205	\$0.9856	10000	SEDUCTS.
entials,	Current Month Delivered Cost per Pound SNF		Cost @	Current II P	-	St. 2033	\$1.2955	\$1.4133	\$1.4922	\$1.5844	\$1.6011	\$1.5633	\$1.5433	51.6.786	\$1.7522	\$1.8056	51.8733	\$1.9233	887.9.12	22.1077	22.1355	51.9344	\$1.8900	51.9133	51.5177	51.5466	51.3255	1110-15	\$1.0677	\$1.0166	\$0.9555	500-5633	20.8011	50.8622	20.8944	\$0.8455	\$0.8300	\$0.7983	\$0.7788	20.7355	20.8900	\$0.8988	1155-05
Differ	Current Month	SNF Cost for	Delivered NFDM for	Current Month	\$1.1751	\$1.3318	\$1.4580	\$1.5475	51.6246	\$1.6470	\$1.6427	\$1.6172	\$1.7267	51.8193	\$1.8640	\$1.9031	179615	\$2.0528	\$2.1351	\$2.1930	\$2.1202	\$1.9735	\$1.9579	\$1.8827	\$1.5747	\$1.4719	\$1.0004 \$1.0004	\$1.101.1	\$1.0920	\$1.00.43	\$0.9957	\$0.8011	\$0.8641	\$0.9614	50.8524	\$0.8403	\$0.8313 \$0.8141	\$0.7920	\$0.8229	50.0019	\$0.9240	\$0.5607	100 mm
			Month	Proposal 21 Class II SNF	\$11423	\$11545	\$12467	\$13645	515034	\$15356	\$15523	\$15145	\$14945	\$1673M	\$17034	\$17578	\$1.8245	\$18745	\$1,9300	\$2.05.89	\$2.0867	51.9912	\$18412	\$1.8645	\$1.4689	\$1.4978	\$12767 \$12767	\$1.0223	\$10189	\$0.9678	\$03467	\$0.9345 \$0.85 M	\$07523	\$08134	508456	\$0.7967	\$07812	\$0.7500	\$07300	50.7457	\$03412	\$03500	の日ののつか
			Current Month	Announced Class II SNF	\$1.0467	\$1.0589	\$1.1511		\$1.4078 \$1.4078	51.4400	\$1.4567 et 4600			51 5778	\$1.6078	\$1.6622	\$1.7289	\$1.7789	\$1.8344 \$1 91.89	EE% 15	\$1.9911	51.8956		\$1.7689	SELE-12	\$1.4022	S1.1811	20.92.67	\$0.9233	\$0.8722	90.8511	\$0.8389 \$0.7578		\$0.7178	20.7500		\$0.6856 \$0.6722	90.6544		20.0011	\$0.7456	20.7544	20.7933
		SNF Cost for	6-Month Pre- Purchased	NFDM FOB Supplier	\$11673	\$13240 \$13240	\$14508	\$15398	\$15921	816399	\$16349	\$160%	\$17190	S1815	\$1.8563	156815	982676	\$2.0451	\$21278	\$2,1853	\$21125	\$1.9519	\$19502	\$18749	\$15670	\$14641	\$1.0827	\$10936	\$10842	\$10066	\$0.9879	50.8934	\$03564	\$09537	50.8446	\$03326	\$03236	\$0.7842	\$08152	508440	8091605	\$0.9430	100000
			Advance NEDM 6-Month Pre Purchase6 Purchased	Month Total Carry Cost	200300	200300	\$00300	\$00300	200300	\$00300	\$00300	200900	\$00300	200300	500300	\$00300	200900	\$0.0300	\$00300	200300	\$00300	200300	\$00300	\$00300	\$00300	\$00300	500300	\$00300	\$00300	200300	\$00300	\$00300	\$00300	\$00300	\$00300	\$00300	\$00300	\$00300	\$00300	200300	\$00300	\$00300	COFOOD S
			SNF cost per Pound from	NFDM FOB Supplier	Not is	\$1293t	\$14194	\$15000	515840	\$16084	\$16040	\$15786	\$1.6830	\$1,7806	\$18254	\$1864	819476	\$2.0141	\$2.1426	\$2.1548	\$2.0815	\$19345	\$19198	\$13440	\$15361	\$1.4322	\$10518	\$1.0627	\$1.0533	151605	\$03570	\$03625	\$08256	\$0.92.28	150805	\$08036	\$0.7927	80.7533	\$0.7842	508132	Soassa	\$09121	ADCROS
			Monthly	Avenge	\$1.1023	\$1.2543	\$1.3768	\$1.4636	51.5384	\$1.5601	\$1.5359	\$1.5312	\$1.6374	5/2971¢	\$1.7706	\$1.8085	51.8892	\$1.9537	\$2.0383	\$2.0897	\$2.0191	\$1.8 A63	\$1.8617	\$1.7887	\$1.4900	\$1.3902	\$1.0202	\$1.0308	\$1.0217 en east	\$0.9464	\$0.9283	\$0.8366 \$0.7443	\$0.8007	50.8551	50.7893	\$0.7776	\$0.7522	700.7307	\$0.7607	20.7888	20.8388	\$0.8847	7776105
				Month	21-un	Aug-12	Sep-12	08-12	Dec. 12	Jan-13	Feb-13	Agr-13	May-13	EL 400	Aug-13	11-day	EL-NON	Dec-13	Feb-14	Mar-34	Agr-14	May-14	Jul-14	Aug-14	Oct-14	Now14	lan-15	Feb-15	Mar-15	ST-MW	Aun 15	Aue.15	Sep-15	Oct-15	Dec 15	Jan-16	Feb-16 Mar-16	Apr-16	May-16	No. 10	Aug-16	Sep-16	001-120

							Current Monti	Current Month Delivered Cost per Pound SNF	st per Pound	Class II SNF Delivered Cost vs. Delivered NFDM	ivered Cost vs. d NFDM	Average C Pound SN	Average Current Delivered Cost per Pound SNF for 6 Months Forward	ed Cost per s Forward	6-Month Pre Delivered Mai	6-Month Pre-Purchased NFDM vs Current Delivered Markets on a Per-Pound SNF Basi	M vs Current und SNF Basis
FMMO	NFDM Monthly Average	SNF cost per Pound from NFDM FOB	Purchase 6 Month Total	SNF Cost for 6-Month Pre- Purchased NFDM FOB	Current Month Announced	Current Month Proposal 21	SNF Cost for Delivered NFDM for Current	Class II SNF Delivered Cost @ Current II	Class II SNF Delivered Cost @ Proposal 21	Class II SNF Delivered Cost @ Current II	Class II SNF Delivered Cost @ Proposal 21	SNF Costfor 5-Month Forward Avg. NDPSR	6- Month Forward Avg. @ CURRENT Class II SNF	6- Month Forward Avg. @ PROP 21 Class IISNF	Pre-Purchased NFDM vs.	Pre-Purchased NFDM vs Delivered Class II SNF with Curroot Marko	Pre-Purchased NFDM vs Delivered Class II SNF with
Jun-12	\$1.1023	\$1.1364	\$0.0300	\$1.1673	\$1.0467	\$1.1423	\$1.1751	_	\$1.2867	\$0.0161	\$0.1116	\$1.4236	\$1.2902	\$1.3858	-\$0.2485	_	-\$0.2107
Jul-12	\$1.1744	\$1.2107	\$0.0300	\$1.2416	\$1.0011	\$1.0967	\$1.2494	\$1.1455	\$1.2411	-\$0.1038	-\$0.0083	\$1.4985	\$1.3504	\$1.4459	-\$0.2491	-\$0.1010	-\$0.1966
Aug-12 Sep-12	\$1.3768	\$1.2931	\$0.0300	\$1.4503	\$1.1511	451.15 \$1.2467	\$1.4580	\$1.2955	\$1.3911	-\$0.1625	-\$0.0669	\$1.6166	\$1.4898	\$1.5854	-\$0.1586	-\$0.0318	-\$0.18/3
Oct-12	\$1.4636	\$1.5089	\$0.0300	\$1.5398	\$1.2689	\$1.3645	\$1.5475	\$1.4133	\$1.5089	-\$0.1342	-\$0.0386	\$1.6414	\$1.5413	\$1.6369	-\$0.0938	\$0.0062	-\$0.0893
Nov-12	\$1.5143	\$1.5611	\$0.0300	\$1.5921	\$1.3478	\$1.4434	\$1.5998	\$1.4922	\$1.5878	-\$0.1075	-\$0.0120	\$1.6530	\$1.5663	\$1.6619	-\$0.0532	\$0.0335	-\$0.0621
Dec-12	\$1.5384 61 F604	\$1.5860	\$0.0300	\$1.6169	\$1.4078	\$1.5034	\$1.6246 \$1.6246	\$1.5522	\$1.6478	-\$0.0724	\$0.0232	\$1.6741	\$1.5748	\$1.6704 \$1.5011	-\$0.0495	\$0.0498	-\$0.0457
Jan-13 Feh-13	\$1.5601	\$1.6084 \$1.6040	\$0.0300 \$0.0300	\$1.6349 \$1.6349	\$1.4400	\$1.535b \$1.5523	\$1.6477	\$1.5844	\$1.6800 \$1.6967	-\$0.0626 -\$0.0415	\$0.0330 \$0.0540	\$1.6998	\$1.5956	\$1.7141	-\$0.0528	\$0.0514 \$0.0242	-\$0.0441
Mar-13	\$1.5208	\$1.5678	\$0.0300	\$1.5988	\$1.4600	\$1.5556	\$1.6065	\$1.6044	\$1.7000	-\$0.0021	\$0.0935	\$1.7654	\$1.6437	\$1.7393	-\$0.1589	-\$0.0372	-\$0.1328
Apr-13	\$1.5312	\$1.5786	\$0.0300	\$1.6095	\$1.4189	\$1.5145	\$1.6172	\$1.5633	\$1.6589	-\$0.0539	\$0.0417	\$1.8148	\$1.6774	\$1.7730	-\$0.1976	-\$0.0602	-\$0.1558
May-13	\$1.6374	\$1.6880	\$0.0300	\$1.7190	\$1.3989	\$1.4945	\$1.7267	\$1.5433	\$1.6389	-\$0.1834	-\$0.0878	\$1.8673	\$1.7233	\$1.8189	-\$0.1406	\$0.0034	-\$0.0922
Jun-13	\$1 7777	\$1.7806	\$0.0300 \$0.0300	\$1.8.115	\$1.5322 \$1.5778	\$1.6734	\$1 8193	\$1.7222	\$1.8178	-50.020	-\$0.0015	41.9463	\$1,8194	\$1 9150	-40.1319	\$0.0003-	-\$0.0957
Aug-13	\$1.7706	\$1.8254	\$0.0300	\$1.8563	\$1.6078	\$1.7034	\$1.8640	\$1.7522	\$1.8478	-\$0.1118	-\$0.0162	\$2.0089	\$1.8622	\$1.9578	-\$0.1449	\$0.0018	-\$0.0937
Sep-13	\$1.8085	\$1.8644	\$0.0300	\$1.8954	\$1.6622	\$1.7578	\$1.9031	\$1.8066	\$1.9022	-\$0.0964	-\$0.0009	\$2.0618	\$1.9141	\$2.0096	-\$0.1587	-\$0.0110	-\$0.1065
Oct-13	\$1.8366	\$1.8934	\$0.0300	\$1.9243	\$1.6944	\$1.7900	\$1.9321	\$1.8388	\$1.9344	-\$0.0932	\$0.0023	\$2.1101	\$1.9642	\$2.0598	-\$0.1780	-\$0.0322	\$0.1277
Dec-13	\$1.8892	\$1.9476	\$0.0300 \$0.0300	\$1.9786	\$1.7289	\$1.8245 \$1 8745	\$1.9863 \$2.0528	\$1.8/33 ¢1 0733	\$1.9689 \$2.0180	-0211.08-	-\$0.01/4	\$2.1414	\$2.0137	\$2.1093	-\$0.1551	\$0.02/4 \$0.0112	-\$0.1230
Jan-14	\$2.0335	\$2.0964	\$0.0300	\$2.1273	\$1.8344	\$1.9300	\$2.1351	\$1.9788	\$2.0744	-\$0.1562	-\$0.0607	\$2.1238	\$2.0400	\$2.1356	\$0.0113	\$0.0951	-\$0.0005
Feb-14	\$2.0783	\$2.1426	\$0.0300	\$2.1735	\$1.9189	\$2.0145	\$2.1812	\$2.0633	\$2.1589	-\$0.1179	-\$0.0223	\$2.0942	\$2.0252	\$2.1208	\$0.0870	\$0.1560	\$ 0.0605
Mar-14	\$2.0897	\$2.1543	\$0.0300	\$2.1853	\$1.9633	\$2.0589	\$2.1930	\$2.1077	\$2.2033	-\$0.0852	\$0.0103	\$2.0445	\$2.0002	\$2.0958	\$0.1485	\$0.1928	\$0.0972
Apr-14	\$2.0191	\$2.0815	\$0.0300	\$2.1125	\$1.9911	\$2.0867	\$2.1202	\$2.1355	\$2.2311	\$0.0153	\$0.1109	\$1.9383	\$1.9556	\$2.0511	\$0.1819	\$0.1646	\$0.0691
May-14	\$1.8/68	\$1.9348 \$1 93/08	\$0.0300 \$0.0300	\$1.9658 \$1 9519	\$1.8956 \$1 7700	\$1.991Z \$1.8656	\$1.9/35 \$1 0506	\$1.0400	\$2.1356 \$2.0100	\$0.0665	\$0.1621 \$0.0504	\$1.84/4 \$1.7638	\$1.852b	\$1.9482 \$1.8650	\$0.1261	\$0.1209 \$0.1802	\$20.0¢
Jul-14	\$1.8617	\$1.9193	\$0.0300	\$1.9502	\$1.7456	\$1.8412	\$1.9579	\$1.8900	\$1.9856	-\$0.0679	\$0.0277	\$1.6593	\$1.7002	\$1.7958	\$0.2986	\$0.2577	\$0.1622
Aug-14	\$1.7887	\$1.8440	\$0.0300	\$1.8749	\$1.7689	\$1.8645	\$1.8827	\$1.9133	\$2.0089	\$0.0307	\$0.1262	\$1.5148	\$1.6061	\$1.7017	\$0.3679	\$0.2766	\$0.1810
Sep-14	\$1.4718	\$1.5173	\$0.0300	\$1.5482	\$1.6956	\$1.7912	\$1.5560	\$1.8400	\$1.9356	\$0.2841	\$0.3796	\$1.3845	\$1.4657	\$1.5613	\$0.1714	\$0.0902	-\$0.0053
Oct-14	\$1.4900	\$1.5361	\$0.0300	\$1.5670	\$1.3733	\$1.4689 \$1.4030	\$1.5747	\$1.5177	\$1.6133	-\$0.0570	\$0.0386	\$1.3072	\$1.3370	\$1.4326 \$1.252F	\$0.2675 \$0.2575	\$0.2377	\$0.1422
Dec-14	\$1.2554	\$1.2942	\$0.0300	\$1.3252	\$1.3489	\$1.4445	\$1.3329	\$1.4933	\$1.5889	\$0.1605	\$0.2560	\$1.1413	\$1.1796	\$1.2752	\$0.1916	\$0.1533	\$0.0577
Jan-15	\$1.0202	\$1.0518	\$0.0300	\$1.0827	\$1.1811	\$1.2767	\$1.0904	\$1.3255	\$1.4211	\$0.2351	\$0.3307	\$1.0851	\$1.0967	\$1.1922	\$0.0053	-\$0.0062	-\$0.1018
Feb-15	\$1.0308	\$1.0627	\$0.0300	\$1.0936	\$0.9267	\$1.0223	\$1.1013	\$1.0711	\$1.1667	-\$0.0302	\$0.0654	\$1.0536	\$1.0396	\$1.1352	\$0.0478	\$0.0617	-\$0.0338
Mar-15	\$1.0217	\$1.0533	\$0.0300	\$1.0842	\$0.9233	\$1.0189	\$1.0920	\$1.0677	\$1.1633	-\$0.0242	\$0.0713	\$1.0043	\$1.0115	\$1.1070	\$0.0876	\$0.0805	-\$0.0151
Apr-15	\$0.9684	\$0.9984	\$0.0300	\$1.0293	\$0.9589	\$1.0545	\$1.0370	\$1.1033	\$1.1989	\$0.0663	\$0.1619	\$0.9664	\$0.9670	\$1.0626	\$0.0706	\$0.0700	-\$0.0256
d1-duil	\$0.9464 \$0.0202	\$0.9757 ¢0.0570	\$0.0300 \$0.0300	\$1.0066 \$0.0070	\$0.8/22 ¢0.0E11	\$0.9678	\$1.0143 cn onc7	\$1.0166 ¢0.0055	\$1.1122 \$1.0011	\$0.002	\$0.0979 \$0.0664	\$0.938 cn 03c0	9710 00	\$1.0224	\$0.0605 ch 0c07	2/80.0¢	-\$0.0081
Jul-15	\$0.8366	\$0.8625	\$0.0300	\$0.8934	\$0.8389	\$0.9345	\$0.9011	\$0.9833	\$1.0789	\$0.0822	\$0.1778	\$0.9111	\$0.9008	\$0.9963	-50.0100	\$0.0004	-\$0.0952
Aug-15	\$0.7443	\$0.7673	\$0.0300	\$0.7982	\$0.7578	\$0.8534	\$0.8060	\$0.9022	\$0.9978	\$0.0963	\$0.1918	\$0.9010	\$0.8778	\$0.9734	-\$0.0950	-\$0.0718	-\$0.1674
Sep-15	\$0.8007	\$0.8255	\$0.0300	\$0.8564	\$0.6567	\$0.7523	\$0.8641	\$0.8011	\$0.8967	-\$0.0630	\$0.0326	\$0.9052	\$0.8658	\$0.9613	-\$0.0411	-\$0.0016	\$0.0972
Oct-15	\$0.8951	\$0.9228	\$0.0300	\$0.9537	\$0.7178	\$0.8134	\$0.9614	\$0.8622	\$0.9578	-\$0.0992	-\$0.0036	\$0.8969	\$0.8683	\$0.9639	\$0.0646	\$0.0931	-\$0.0025
Dec-15	\$0.7893	\$0.8137	\$0.0300	\$0.8446 \$0.8446	\$0.7500	\$0.8456	\$0.8524	\$0.8944	10099.02	\$0.0421	\$0.1376	\$0.8555	\$1.63.04	\$0.9233	-\$0.031	\$0.0250	9U2UUŞ-
Jan-16	\$0.7776	\$0.8016	\$0.0300	\$0.8326	\$0.7011	\$0.7967	\$0.8403	\$0.8455	\$0.9411	\$0.0052	\$0.1008	\$0.8554	\$0.8109	\$0.9065	-\$0.0151	\$0.0294	-\$0.0662
Feb-16	\$0.7689	\$0.7927	\$0.0300	\$0.8236	\$0.6856	\$0.7812	\$0.8313	\$0.8300	\$0.9256	-\$0.0013	\$0.0943	\$0.8655	\$0.8102	\$0.9057	-\$0.0342	\$0.0212	-\$0.0744
Mar-16	\$0.7522	\$0.7755	\$0.0300 \$0.0300	\$0.8064	\$0.6722 ¢0.6544	\$0.7678	\$0.8141 60 7070	\$0.8166 ¢0.7000	\$0.9122 \$0.9044	\$0.0025 \$0.0025	\$0.0981 \$0.1034	\$0.8809	\$0.8202	\$0.9157 ¢0.0304	-\$0.0668	-\$0.0061	-\$0.1016 ¢0.1275
Mav-16	\$0.7607	\$0.7842	\$0.0300	\$0.8152	\$0.6344	\$0.7300	\$0.87.02	\$0.7788	\$0.8744	-\$0.0440	\$0.0515	150 505	\$0.8570	\$0.9526	-50,1137	-\$0.0341	-\$0.1297
Jun-16	\$0.7888	\$0.8132	\$0.0300	\$0.8441	\$0.6511	\$0.7467	\$0.8519	\$0.7955	\$0.8911	-\$0.0563	\$0.0392	\$0.9626	\$0.8896	\$0.9852	-\$0.1107	-\$0.0378	-\$0.1333
Jul-16	\$0.8363	\$0.8622	\$0.0300	\$0.8931	\$0.6967	\$0.7923	\$0.9008	\$0.8411	\$0.9367	-\$0.0597	\$0.0359	\$0.9916	\$0.9167	\$1.0122	-\$0.0908	-\$0.0158	-\$0.1114
Aug-16	\$0.8588	\$0.8854	\$0.0300	\$0.9163	\$0.7456	\$0.8412	\$0.9240	\$0.8900	\$0.9856	-\$0.0340	\$0.0616	\$1.0237	\$0.9444	\$1.0400	-\$0.0997	-\$0.0204	-\$0.1160
Oct-16	\$0.9222	\$0.9507	\$0.0300	\$0.9816	\$0.7933	\$0.88.90	\$0.989.4	\$0.9377	\$1.0333	-\$0.0516	\$0.0439	\$1.0406 \$1.0406	1966.05	21:0012	-\$0.0512	-\$0.0067	-\$0.1023
Nov-16	\$0.9119	\$0.9401	\$0.0300	\$0.9710	\$0.8300	\$0.9256	\$0.9788	\$0.9744	\$1.0700	-\$0.0043	\$0.0912	\$1.0263	\$0.9894	\$1.0850	-\$0.0475	-\$0.0107	-\$0.1062
Dec-16	\$0.9579	\$0.9875	\$0.0300	\$1.0185	\$0.8133	\$0.9089	\$1.0262	\$0.9577	\$1.0533	-\$0.0684	\$0.0271	\$1.0191	\$0.9733	\$1.0689	\$0.0071	\$0.0529	-\$0.0427
Jan-17 Feh-17	\$1.0229 \$0 9926	\$1.0545 \$1.0233	\$0.0300 \$0.0300	\$1.0855	\$0.8633 \$0.9211	\$0.9589 \$1.0167	\$1.0932	\$1.0077	\$1.1033 \$1 1611	-\$0.0855 \$0.0036	\$0.0101 \$0.0991	\$1.0115 \$0.9903	\$0.9654 \$0.9587	\$1.0609	\$0.0817	\$0.1278 \$0.1033	\$0.0323 \$0.0077
Mar-17	\$0.8493	1040.44	\$0.0300	\$0.9065	\$0.8889	\$0.9845	\$0.9142	\$1.0333	\$1.1289	\$0.1191	\$0.2147	\$0.9698	\$0.9394	\$1.0350	-\$0.0555	-\$0.0252	-\$0.1208
Apr-17	\$0.8386	\$0.8645	\$0.0300	\$0.8955	\$0.7533	\$0.8489	\$0.9032	\$0.8977	\$0.9933	-\$0.0055	\$0.0901	\$0.9699	\$0.9215	\$1.0170	-\$0.0667	-\$0.0183	-\$0.1138
May-17	\$0.8704	\$0.8973	\$0.0300	\$0.9282	\$0.7333	\$0.8289	\$0.9360	\$0.8777	\$0.9733	-\$0.0582	\$0.0373	\$0.9649	\$0.9226	\$1.0182	-\$0.0290	\$0.0134	-\$0.0822
Jun-17	\$0.9137	\$0.9420	\$0.0300	\$0.9729	\$0.7656	\$0.8612	\$0.9806	\$0.9100	\$1.0056	-\$0.0706	\$0.0250	\$0.9452	\$0.9222	\$1.0178	\$0.0355	\$0.0584	-\$0.0372
Jul-17 Aue-17	\$0.8991 \$0.8733	\$0.9269 \$0 annz	\$0.0300 \$0.0300	\$0.9578 \$0.9312	\$0.8233 \$0.8056	\$0.9189 \$0 9012	\$0.9656 \$0.9330	\$0.9677 \$0.9500	\$1.0633 \$1.0456	\$0.0022	\$0.0977 \$0.1066	\$0.9 125 \$0.8 777	\$0.9046 \$0.8730	\$1.0002 \$0.9685	\$0.0531 \$0.0531	\$0.0609 \$0.0660	-\$0.0346
Sep-17	\$0.8499	\$0.8762	\$0.0300	\$0.9071	\$0.7811	\$0.8767	\$0.9148	\$0.9255	\$1.0211	\$0.0107	\$0.1063	\$0.8494	\$0.8383	\$0.9339	\$0.0655	\$0.0765	-\$0.0190
0dt-17	\$0.8099	\$0.8349	\$0.0300	\$0.8659	\$0.7600	\$0.8556	\$0.8736	\$0.9044	\$1.0000	\$0.0308	\$0.1264	\$0.8230	\$0.8109	\$0.9065	\$0.0506	\$0.0627	-\$0.0329
Nov-17	\$0.7553	\$0.7787	\$0.0300	\$0.8096	\$0.7311	\$0.8267	\$0.8173	\$0.8755	\$0.9711	\$0.0582	\$0.1538	\$0.8064	\$0.7844	\$0.8800	\$0.0109	\$0.0329	-\$0.0627

6-Month Pre-Purchased NFDM vs Current Delivered Markets on a Per-Pound SNF Basis	Pre-Purchased Pre-Purchased NFDM vs NFDM vs Pre-Purchased Delivered Class NFDM vs. II SNF-with II SNF-with	Current Make P	\$0.0745 -\$0.0175 -\$0.1131 0.0745 50.0175 -\$0.1131	\$0.1142 -\$0.0431 -\$0.1386	\$0.0529 \$0.0078 -\$0.0878	\$0.1014 -\$0.0405 -\$0.1360 \$0.1009 -\$0.0233 -\$0.1188	\$0.0848 -\$0.0030 -\$0.0986 \$0.0830 -\$0.0115 -\$0.1071	\$0.0861 -\$0.0164 -\$0.1120 \$0.0917 -\$0.0140 -\$0.1096	\$0.0651 \$0.0157 -\$0.0799 \$0.0507 \$0.0219 -\$0.0736	\$0.0816 -\$0.0196 -\$0.1152 \$0.0922 -\$0.0237 -\$0.1193	\$0.0625 \$0.0140 -\$0.0815 \$0.0573 \$0.0190 -\$0.0765	\$0.0909 -\$0.0066 -\$0.1021 \$0.1323 -\$0.0403 -\$0.1359	\$0.1497 -\$0.0523 -\$0.1478   \$0.1156 -\$0.0427 -\$0.1382	\$0.0313 -\$0.0013 -\$0.0968 \$0.0851 \$0.0866 -\$0.0089	50.1675 \$0.1673 \$0.0717 50.2146 \$0.2197 \$0.1241 50.1300 \$0.1312 \$0.0357	\$0.0160 \$0.0127 -\$0.0829 \$0.1445 -\$0.0707 -\$0.1663	\$0.1212 -\$0.0254 -\$0.1209 \$0.0899 -\$0.035 -\$0.0991	\$0.1280 -\$0.0482 -\$0.1438 \$0.1138 -\$0.0343 -\$0.1299	\$0.0660 \$0.0049 -\$0.0906 \$0.0683 \$0.0037 -\$0.0918	\$0.0815 \$0.0014 -\$0.0942   \$0.0708 \$0.0196 -\$0.0760	\$0.1102 -\$0.0269 -\$0.1224 \$0.1354 -\$0.0467 -\$0.1423	\$0.1110 -\$0.0142 -\$0.1098   \$0.0706 \$0.0295 -\$0.0660	\$0.0801 \$0.0303 -\$0.052 \$0.1426 -\$0.0234 -\$0.1190	50.1991 - 50.0564 - 50.1970 50.2625 - 50.1014 - 50.1970 50.2601 - 50.1970	\$0.2304 -\$0.0582 -\$0.1538 \$0.2152 -\$0.0653 -\$0.1608		\$0.0490 \$0.0841	0.0		0 \$0.1643		\$0.0117	\$0.0258 \$0.0221 -\$0.0734 \$0.0145 \$0.0466 -\$0.0489 \$0.0345 \$0.0554 -\$0.0707			\$0.1356 -\$0.0063 -\$0.1019 \$0.1918 \$0.1782 \$0.0826	\$0.0384 -\$0.0078 \$0.0483	-\$0.0172	\$0.0299 -\$0.0339 \$0.1007	-	\$0.0299	\$0.3679 \$0.2766 \$0.1810 \$0.2701 \$0.1151 \$0.2107 \$0.1333 \$0.0779 \$0.0779
Average Current Delivered Cost per 6-N Pound SNF for 6 Months Forward Deliv	_ % <u></u>	Price	++	\$0.8172 \$0.9128 \$		~ ~	\$0.9229 \$1.0185 \$	\$0.9685 \$1.0641 -\$0 \$0.9826 \$1.0781 -\$0	\$1.0037 \$1.0993 <del>\$</del> \$1.0270 \$1.1226 <del>\$</del>	\$1.0468 \$1.1424 -\$0 \$1.0563 \$1.1519 -\$0	~~~~	\$1.1167 \$1.2122 -50 \$1.1444 \$1.2400 -50	\$1.1754 \$1.2709 <del>\$</del> ( \$1.2109 \$1.3065 <del>\$</del> (	51.2296 \$1.3252 - <mark>5</mark> ( 51.2057 \$1.3013 \$(	51.1550 \$1.2506 \$( 51.1028 \$1.1983 \$( 51.0580 \$1.1535 \$(	\$1.0107 \$1.1063 -50 \$0.9848 \$1.0804 -50	\$1.0028 \$1.0984 -\$( \$1.0439 \$1.1395 -\$(	51.0785 \$1.1741 - 50 51.1054 \$1.2009 - 50	51.1337 \$1.2293 \$1.285 \$1.1500 \$1.2456 \$1.2456	51.1663 51.2618 -50 51.1887 51.2842 -50	51.2165 \$1.3120 -50 51.2368 \$1.3324 -50	\$1.2570 \$1.3526 -\$0 \$1.2866 \$1.3822 \$0	\$1.3172 \$1.4128 -50 \$1.3561 \$1.4517 -50	51.4002 51.4957 51.4957 51.4957 51.4957 51.569 51.556959 51.5569595959 51.556959595959595959595959595959595959595	51.6194 51.7150 - 50 51.6989 51.7944 - 50	51.7596 \$1.8552 - <mark>5</mark> ( 51.8061 \$1.9017 - <b>5</b> (	\$1.9361	\$1.8085 \$1.9041 \$( \$1.7676 \$1.8632 \$(	\$1.8072 \$1.7498 \$1.6780	51.5052 \$1.6008 \$1.515 51.4441 \$1.5396 \$1.5	51.3787 51.4743 50 51.3231 51.4187 50 51.7235 51.3601 50	\$1.311	51.2026 51.2982 -50 51.1955 51.2911 -50 51.011 51.2967 -50		\$1.4340 \$1.5295 \$1.3993 \$1.4948 \$1.3347 \$1.4298	\$1.7789	50.9298 51.0253 50 50.9013 50.9968 50 50.8837 50.9793 50	\$0.9704 \$1.2108	\$1.0827 \$1.1782 - 50 \$1.3811 \$1.4767 - 50 \$1.6752 \$1.7707 \$0	2759 \$1.3715	<u>ې</u>	× φ υ
	2 <u>5</u>	NFDM	\$0.8434 \$0.8434	\$0.8883	\$0.9318	\$0.9467 \$0.9757	\$1.0047 \$1.0226	\$1.0381 \$1.0603	8 \$1.0845 3 \$1.0996	\$1.1088 \$1.1248	\$1.1474 \$1.1713	\$1.2010 \$1.2364	9 \$1.2728 5 7 \$1.2838 \$	6 \$1.2597 6 \$1.2073	6 \$1.1548 5 3 \$1.1078 5 1 \$1.0591 5	\$1.0395 \$1.0587	\$1.0986 \$1.1303	\$1.1583 \$1.1848	9 \$1.2047 0 \$1.2220 \$	4 \$1.2491 \$	4 \$1.2998 5 9 \$1.3255 5	5 \$1.3538 8 \$1.3868 \$	9 \$1.4276 3 \$1.4753 6 51.4753	2 \$1.5429 2 \$1.6224 2 \$1.6224	8 \$1.7917 51.84888 51.84888 51.84888 51.84888 51.84888 51.84888 51.84888 51.84888 51.84888 51.848888 51.848888 51.848888 51.8488888555555555555555555555555555555	1 \$1.8950 6 \$1.9210	5 \$1.9108 3 \$1.8738 \$	3 \$1.8309 8 \$1.7785	9 \$1.7167 3 \$1.6422 51.6422 \$	1 \$1.5046 2 \$1.4313	1 \$1.3705 8 \$1.3209 5 \$1.3209 5 \$1.3841 6 \$1.3841 6 \$1.3841 6 \$1.3841 5 \$1.3841555555555555555555555555555555555555	3 \$1.2639 5 4 \$1.2505 5	0 \$1.2506 1 \$1.2567 5 \$1.2610 6 \$1.2610 6	\$1.2619 \$1.3792	\$1.5138 \$1.4614 \$1.3878	\$1.6697	1 \$0.9447 8 \$0.9627 5 \$0.9111 9	50.9431 \$1.1831	\$1.1390 \$1.5054 \$1.7039	\$1.3243	00 0	
Class II SNF Delivered Cost vs. Delivered NFDM	Class II SNF Class II SNF Delivered Cost @ Current II @ Proposal 21	Differential Differentia		-\$0.0286 \$0.0670	· ··	\$0.0270 \$0.1225 -\$0.0460 \$0.0496		-\$0.0343 \$0.0612 -\$0.0330 \$0.0625	-\$0.0727 \$0.0221 -\$0.0712 \$0.0224	\$0.005 \$0.0961 \$0.085	-\$0.0827 \$0.0129 -\$0.0518 \$0.0438	-\$0.0235 \$0.0721 -\$0.0075 \$0.0881	-\$0.0386 \$0.0569 -\$0.0749 \$0.0207	-\$0.0817 \$0.0138 -\$0.1001 -\$0.0046	-\$0.0689 \$0.0266 -\$0.0402 \$0.0553 \$0.1086 \$0.2041	\$0.1821 \$0.277 \$0.0892 \$0.1841	-\$0.0897 \$0.0059 -\$0.1004 -\$0.0048	-\$0.0170 \$0.0786 -\$0.0566 \$0.0390	-\$0.0886 \$0.0069 -\$0.0426 \$0.0530	-\$0.0332 \$0.062 -\$0.0605 \$0.035	-\$0.0151 \$0.0804 -\$0.0057 \$0.0895	-\$0.0950 \$0.0005 -\$0.1073 -\$0.0118	-\$0.0773 -\$0.0182 \$0.0773	-\$0.0472 \$0.0484 -\$0.0544 \$0.0412 \$0.150 \$0.0404	-\$0.1690 -\$0.073	-\$0.1596 -\$0.064 -\$0.1572 -\$0.061	-\$0.1440 -\$0.048 -\$0.0923 \$0.003	-\$0.0353 \$0.0603 -\$0.0438 \$0.0518	\$0.0367 \$0.0589 \$0.1108 \$0.2063 \$0.0000 \$0.1965		-\$0.0084 \$0.0871 \$0.0662 \$0.1618 \$0.1117 \$0.2072	_			-\$0.0580 \$0.0376 -\$0.0725 \$0.0231 -\$0.0368 \$0.0588		\$0.0306 \$0.1261 -\$0.0297 \$0.0658 \$0.0030 \$0.0985		-\$0.0131 \$0.0825 -\$0.0748 \$0.0208 -\$0.0402 \$0.0554		\$0.0298 \$0.0658 \$0.7841 \$0.3796	-50.1834 -50.0878 50.0764 -50.0878
rrent Month Delivered Cost per Pound SNF		Differential		\$0.7455 \$0.8411	2 05 F	\$0.8722 \$0.9678 \$0.8288 \$0.9244	\$ \$	0.9177 \$1.0133 0.9355 \$1.0311	0.9466 \$1.0422 0.9777 \$1.0733	1.0277 \$1.1233 1.0055 \$1.1011	1.0022 \$1.0978 1.0622 \$1.1578	1.0866 \$1.1822 1.0966 \$1.1922	1.0844 \$1.1800 1.0933 \$1.1889	1.1466 \$1.2422 1.1922 \$1.2878	1.2533 \$1.3489 1.2822 \$1.3778 1.2977 \$1.3933	1.2055 \$1.3011 1.0033 \$1.0989	0.8877 \$0.9833	1.0133 \$1.1089 1.0144 \$1.1100	1.0500 \$1.1456 1.1111 \$1.2067	1.1344 \$1.2300 1477 \$1.2433	\$1.1744 \$1.2700 \$1.1844 \$1.2800	1.1477 \$1.2433 1.2088 \$1.3044	1.2688 \$1.3644 1.3144 \$1.4100	1.2966 \$1.3922 1.3055 \$1.4011 2.3056 614011	L 3922 \$1.4878	1.5788 \$1.6744 1.6633 \$1.7589	1.7455 \$1.8411 1.8344 \$1.9300	1.8688 \$1.9644 1.8666 \$1.9622	1.8577 \$1.9533 1.8700 \$1.9656 7577 \$1.9533	1.6233 \$1.7189	1.5311 \$1.6267 1.5133 \$1.6089 4444 \$1.5400	1.2888 \$1.3844 .2633 \$1.3589	1.2311 \$1.3267 1.1977 \$1.2933 1.2155 \$1.3111		1.1722 \$1.2678 1.1888 \$1.2844 1.2311 \$1.3267	7075 8701	0.9987 \$1.0943 0.8638 \$0.9593 0.3250 \$1.0306		1.0995 \$1.1950 1.2724 \$1.3680 1.7356 \$1.8312	1.2621 \$1.3577	d: Average Monthly Difference d: Highest Monthly Difference	t Monthly Difference
rrent Month Del	5	Month cn 766.0	2690	\$0.7741	\$0.8789	\$0.8453 \$1 \$0.8748 \$C	\$0.9396 \$1 \$0.9396 \$0	\$0.9521 \$1 \$0.9686 \$C	\$1.0194 \$7 \$1.0490 \$0	\$1.0272 \$1 \$1.0326 \$1	\$1.0849 \$1 \$1.1140 \$1	\$1.1101 \$1 \$1.1041 \$1	\$1.1231 \$1 \$1.1682 \$1	\$1.2284 \$1 \$1.2924 \$1	\$1.3223 \$1 \$1.3225 \$1 \$1.1892 \$1	\$1.0234 \$1 \$0.9141 \$1	\$0.9774 \$1 \$1.0404 \$0	\$1,0303 \$1,0303 \$1,0710 \$1	\$1,1387 \$1 \$1,1537 \$1	\$1.1676 \$1 \$1.2082 \$1	\$1.1896 \$1 \$1.1901 \$1	\$1.2428 \$1 \$1.3162 \$1	\$1.3475 \$1 \$1.3327 \$1	\$1.3438 5: \$1.3599 5: 61.405 6:1	\$1.5612 \$1 \$1.6336 \$1	\$1.7385 \$1 \$1.8205 \$1	\$1.8896 \$1 \$1.9267 \$1	\$1.9041 \$1 \$1.9104 \$1	\$1.8944 \$. \$1.7593 \$1 c1 6670 c1	\$1.5897 \$1	\$1.5396 \$1 \$1.4471 \$1 \$1.4228 \$1	\$1.2295 \$1	\$1.2247 \$1 \$1.2422 \$1 \$1.265 \$1	\$1.2112 \$1 \$1.1887 \$1	\$1.2302 \$: \$1.2613 \$1 \$1.2679 \$1	\$1.7980 \$1.7980 \$1.8616 \$1.8	\$0.9681 \$0.8935 \$0.8935 \$0.9320 \$0.9320	\$0.8577 \$1.1128	\$1.1126 \$1 \$1.3472 \$1 \$1.7758 \$1	\$1.2609	Advance	Advance
	۷	Class II SNF	++	\$0.6967	++	+	\$0.7144 \$0.8100 \$0.7567 \$0.8523	\$0.7733 \$0.8689 \$0.7911 \$0.8867	\$0.8022 \$0.8978 \$0.8333 \$0.9289	\$0.8833 \$0.9789 \$0.8611 \$0.9567	\$0.8578 \$0.9534 \$0.9178 \$1.0134	\$0.9422 \$1.0378 \$0.9522 \$1.0478	\$0.9400 \$1.0356 \$0.9489 \$1.0445	\$1.0022 \$1.0978 \$1.0478 \$1.1434	\$1.1089 \$1.2045 \$1.1378 \$1.2334 \$1.1533 \$1.2489	\$1.0611 \$1.1567 \$0.8589 \$0.9545	\$0.7433 \$0.8389 \$0.7956 \$0.8912	\$0.8689 \$0.9645 \$0.8700 \$0.9656	\$0.9056 \$1.0012 \$0.9667 \$1.0623	\$0.9900 \$1.0856 \$1.0033 \$1.0989	\$1.0300 \$1.1256 \$1.0400 \$1.1356	\$1.0033 \$1.0989 \$1.0644 \$1.1600	\$1.1244 \$1.2200 \$1.1700 \$1.2656	\$1.1522 \$1.2478 \$1.1611 \$1.2567 \$1.1811 \$1.2567	\$1.2478 \$1.3434 \$1.3578 \$1.4534	\$1.5189 \$1.6145	\$1.6011 \$1.6967 \$1.6900 \$1.7856	\$1.7244 \$1.8200 \$1.7222 \$1.8178	\$1.7133 \$1.8089 \$1.7256 \$1.8212 \$1.6133 \$1.8212	\$1.4856 \$1.5812 \$1.4789 \$1.5745	\$1.3867 \$1.4823 \$1.3689 \$1.4645 \$1.4645 \$1.3056	\$1.1189 \$1.21450 \$1.1189 \$1.2145	\$1.0867 \$1.0533 \$1.1489 \$1.0711 \$1.1489	\$1 \$1	\$1.0278 \$1.1234 \$1.0444 \$1.1400 \$1.0867 \$1.1823	\$1.5631 \$1.6386 \$1.7257 \$1.8212	\$0.8543 \$0.9498 \$0.7193 \$0.8149 \$0.7906 \$0.8861	\$0.9157 \$1.0113	\$0.9550 \$1.0506 \$1.1280 \$1.235 \$1.5912 \$1.6868		ctors, Current vs 6-Month / Current vs 6-Month /	Current vs
	SNF Cost for 6-Month Pre- 6 Purchased al NFDM FOB	Supplier co. 7404	\$0.0300 \$0.7612 50.0300 \$0.7612	3300 \$0.7664	1300 \$0.8711	3300 \$0.8375 3300 \$0.8671	\$0.0300 \$0.9122 \$0.0300 \$0.9319	3300 \$0.9443 3300 \$0.9608	\$0.0300 \$1.0116 \$0.0300 \$1.0412	3300 \$1.0195 3300 \$1.0248	\$0.0300 \$1.0772 \$0.0300 \$1.1063	\$0.0300 \$1.1024 \$0.0300 \$1.0964	.0300 \$1.1154 .0300 \$1.1605	.0300 \$1.2206 .0300 \$1.2846	0300 \$1.3145 0300 \$1.3147 0300 \$1.1814	\$0.0300 \$1.0157 \$0.0300 \$0.9064	.0300 \$0.9697 .0300 \$1.0327	3300 \$1.0226 31.0633	.0300 \$1.1309 .0300 \$1.1460	3300 \$1.1599 1300 \$1.2005	\$0.0300 \$1.1819 \$0.0300 \$1.1824	\$0.0300 \$1.2351 \$0.0300 \$1.3085	3300 \$1.3398 3300 \$1.3249 51.3249	0300 \$1.3522	\$0.0300 \$1.5535 \$0.0300 \$1.6259	\$0.0300 \$1.7307 \$0.0300 \$1.8128	\$0.0300 \$1.8819 \$0.0300 \$1.9190	\$0.0300 \$1.8964 \$0.0300 \$1.9027	\$0.0300 \$1.8867 \$0.0300 \$1.7515 \$0.0200 \$1.6601	\$0.0300 \$1.5820 \$0.0300 \$1.5820	\$0.0300 \$1.5319 \$0.0300 \$1.4394 \$0.0300 \$1.4354	\$0.0300 \$1.2218 \$0.0300 \$1.2218	\$0.0300 \$1.2170 \$0.0300 \$1.2344 \$0.0300 \$1.2348	\$0.0300 \$1.1809	.0300 \$1.225 .0300 \$1.2536 .0300 \$1.2602	\$0.0300 \$1.7903 \$0.0300 \$1.8538	\$0.0300 \$0.9604 \$0.0300 \$0.8858 \$0.0300 \$0.9243	300 \$0.8500 300 \$1.1051	3300 \$1.1048 3300 \$1.3395 3300 \$1.7681	3300 \$1.2532	t of Advanced Prices and Pricing Factors,	
	SNF cost per Pound from NFDM FOB	Supplier	\$0.7303 \$0.7303	\$0.7355 \$0.7355	\$0.8402	\$0.8066 \$0.8362	\$0.8812 \$0.9009	\$0.9134 \$0.9299	\$0.9807 \$1.0103	9836.0\$ 96.09	\$1.0463 \$1.0754	\$1.0714 \$1.0655	\$1.0844 \$0 \$1.1296 \$0	\$1.1897 \$0 \$1.2537 \$0	\$1.2836 \$0 \$1.2838 \$0 \$1.1505 \$0	\$0.9847 \$0.8755	\$0.9388 \$0	\$0.9916 \$0 \$1.0324 \$0	\$1.1000 \$0 \$1.1151 \$0		\$1.1509 \$1.1514	\$1.2041 \$1.2775	\$1.3089 \$1.2940	\$1.3052 \$0 \$1.3212 \$0 \$1.4010 \$0	\$1.5226 \$1.5249	\$1.7819	\$1.8509 \$1.8880	\$1.8655 \$1.8718	\$1.8558 \$1.7206 \$1.6707	\$1.5510 \$1.5510	\$1.5009 \$1.4085 \$1.2441	\$1.2304 \$1.1908	\$1.1861 \$1.2035 \$1.878	\$1.1726 \$1.1500	\$1.1915 \$1.2227 \$1.2293	\$1.7594 \$1.8229	.9295 .8549 .8934	8190	\$1.0739 \$0.0300 \$1.3085 \$0.0300 \$1.7372 \$0.0300	2223	men	
	NFDM Monthly Average	_						-																						Oct-22 \$1.5819 Nov-22 \$1.5045	-								2020 \$1.0417 2021 \$1.2693 2022 \$1.6851	_	Sources: Source: USDAAnnounce	

Month & Year	Midwestern	Northeastern	Midwest vs NE	Percent Difference:
Jan 19	Cream \$2.6433	Cream \$2.4925	Cream \$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	\$2.8389	\$2.8091	\$0.0298	1.1%
May 19	\$2.9634	\$3.0084	-\$0.0450	-1.5%
Jun 19	\$3.0921	\$3.1605	-\$0.0684	-2.2%
Jul 19	\$3.2017	\$3.2332	-\$0.0315	-1.0%
				-1.1%
Aug 19	\$3.1863	\$3.2220	-\$0.0357	
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	\$2.3992	\$2.3780	\$0.0212	0.9%
Aug 20	\$2.1264	\$2.1107	\$0.0157	0.7%
Sep 20	\$1.9845	\$2.0183	-\$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%
Oct 21	\$2.4019	\$2.4458	-\$0.0439	-1.8%
Nov 21	\$2.8021	\$2.7692	\$0.0329	1.2%
Dec 21	\$2.7836	\$2.7937	-\$0.0101	-0.4%
Jan-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	-4.3%
Jun-22	\$3.8831	\$4.0169	-\$0.1338	-3.3%
				-3.3%
Jul-22	\$3.9970	\$4.1793	-\$0.1823	
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%
Dec-22	\$3.2734	\$3.4577	-\$0.1843	-5.3%
Jan-23	\$2.8713	\$2.8135	\$0.0578	2.1%
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%
Oct-23	\$4.4488	\$4.6616	-\$0.2128	-4.6%
Nov-23	\$3.6111	\$3.5841	\$0.0270	0.8%
Dec-23	\$2.9879	\$3.0207	-\$0.0328	-1.1%
2019	\$2.8349	\$2.8162	\$0.0188	0.8%
	\$2.8349 \$1.9984			3.5%
2020		\$1.9488	\$0.0496	
2021	\$2.2828	\$2.2864	-\$0.0037	0.0%
2022	\$3.7756	\$3.9184	-\$0.1428	-3.4%
2023	\$3.3010	\$3.3814	-\$0.0804	-2.2%
2019-2023	Midwestern	Northeastern	Midwest vs NE	Percent
Statistics	Cream	Cream	Cream	Difference:
Average	2.7295	2.7483	-0.0188	0.2%
High	4.4241	4.6687	0.2030	20.9%
Low	1.1746	0.9716	-0.3523	-7.5%
STDEV	0.7464	0.8294	0.1138	4.5%
SIDEV	0.7404			

#### 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

1onth & Year	NE Class II Condensed Skim	FMMO Class	Difference: Condensed Skim vs II SNF	Deviation from '19-'23 Average Mo. Difference	Difference Per Cwt Skim (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	\$0.7886	\$0.9522	-\$0.1636	-\$0.1513	-\$1.47	-\$1.36
Sep 19	\$0.8618	\$0.9400	-\$0.0782	-\$0.0659	-\$0.70	-\$0.59
Oct 19	\$1.0100	\$0.9489	\$0.0611	\$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			-\$2.10	
			-\$0.2378	-\$0.2255		-\$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
Sep 20	\$0.9321	\$0.8700	\$0.0621	\$0.0744	\$0.56	\$0.67
Oct 20	\$0.9929	\$0.9056	\$0.0873	\$0.0996	\$0.79	\$0.90
Nov 20	\$1.0684	\$0.9667	\$0.1017	\$0.1140	\$0.92	\$1.03
Dec 20	\$0.7091	\$0.9900	-\$0.2809	-\$0.2686	-\$2.53	-\$2.42
Jan 21	\$0.5263	\$1.0033	-\$0.2809	-\$0.2080	-\$2.33	-\$2.42
Feb 21	\$0.5263 \$0.5000	\$1.0033 \$1.0300	-\$0.4770 -\$0.5300	-\$0.4647 -\$0.5177	-\$4.29 -\$4.77	-\$4.18 -\$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
Sep 21	\$1.0393	\$1.1611	-\$0.1218	-\$0.1095	-\$1.10	-\$0.99
Oct 21	\$1.0888	\$1.1811	-\$0.0923	-\$0.0800	-\$0.83	-\$0.72
Nov 21	\$1.1598	\$1.2478	-\$0.0880	-\$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	\$0.1751	\$0.1874	\$1.58	\$1.03
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	\$0.1940	\$1.64	\$1.75
Aug 22	\$1.8639	\$1.7256	\$0.1383	\$0.1506	\$1.24	\$1.36
Sep 22	\$1.7590	\$1.6133	\$0.1457	\$0.1580	\$1.31	\$1.42
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	\$0.1780	\$1.50	\$1.63
	\$1.2523	\$1.0867	\$0.1656	\$0.1809	\$1.52	\$1.65
May 23						
Jun 23	\$1.2298	\$1.0533	\$0.1765	\$0.1888	\$1.59	\$1.70
Jul 23	\$1.2450	\$1.0711	\$0.1739	\$0.1862	\$1.57	\$1.68
Aug 23	\$1.2398	\$1.0722	\$0.1676	\$0.1799	\$1.51	\$1.62
Sep 23	\$1.2125	\$1.0378	\$0.1747	\$0.1870	\$1.57	\$1.68
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
2020	\$0.9244	\$1.1280	-\$0.2036	-\$0.1913	-\$1.83	-\$1.72
	\$0.9244 \$1.7597	\$1.5912	\$0.1685		\$1.52	
2022				\$0.1808		\$1.63
2023	\$1.2883	\$1.1177	\$0.1706	\$0.1829	\$1.54	\$1.65
					-	
Average	\$1.1292	\$1.1415	-\$0.0123	\$0.0000	-\$0.11	\$0.00
High	\$1.8950	\$1.7256	\$0.1823	\$0.1946	\$1.64	\$1.75
1	\$0.4341	\$0.7433	-\$0.6270	-\$0.6147	-\$5.64	-\$5.53
Low	40.0000	60 20F2	\$0.2067	\$0.2190	\$1.86	\$1.97
STDEV	\$0.3962	\$0.2653	lefault/files/media/			