

**Appendix E**

**Analyses of Scenarios Using Current USDA Baseline  
and Current Version of Econometric Model**

**April 2007**

On February 26, 2007, at the hearing concerning Class III and IV pricing formulas, Dairy Programs was asked to provide economic analyses of the proposals using the *USDA Agricultural Baseline Projections to 2016*, published on February 12, 2006. This appendix provides results of the analyses.

Exhibit 30

## **General Comparison of Previous and Recent USDA Dairy Baseline Assumptions and Projections**

Baseline projections are generated annually by the Interagency Committee Estimates Committee for Dairy, usually in November of each year. They are then published in February or March of the following year. Between November of 2005 and November 2006, the dairy situation and outlook changed considerably. With greater expectations for U.S. ethanol production, feed prices are expected to be higher. With higher feed prices projected, milk production is expected to be lower. The tighter milk supply is expected to result in higher milk prices.

Since milk prices are expected to be higher, government removals are projected to be negligible. Whereas the previous baseline projections assumed the Dairy Export Incentive Program (DEIP) would be utilized to the maximum extent allowed beginning in the 2006/07 fiscal year, the recent baseline projections assume that the DEIP will not be used throughout the projection period. The policy assumptions regarding the Milk Income Loss Contract (MILC) Program and the Milk Price Support Program remain unchanged.

Since the current USDA baseline projections were determined in November 2006, they assume the Federal order manufacturing allowances that existed at that time would continue throughout the projection period. For these analyses, as with the previous analyses for this hearing, adjustments have been made to the baseline projections to reflect changes in make allowances per the Interim Final Rule. Hereafter, all references to the baseline in this appendix refer to the most recent USDA baseline projections adjusted for changes in manufacturing allowances per the Interim Final Rule.

### **General Discussion of Changes to Model**

The Economic Analysis staff of USDA Dairy Programs continuously updates its national econometric model. These updates reflect new data, revisions to data, and improvements to structures of equations. Whereas the parameters in the model calibrated to the *USDA Baseline Projections to 2015* (previous model version) are derived from historical data from 1980 through 2004, the parameters in the model calibrated to *USDA Baseline Projections to 2016* (current model version) are derived from historical data from 1980 through 2005, including any data revisions that were made between the two versions. The structure of most equations is the same. Parameter estimates generally differ slightly. Documentation for both model versions can be found at [http://www.ams.usda.gov/dairy/class\\_III\\_IV\\_pr\\_formulas/class\\_III\\_IV\\_hearing.htm](http://www.ams.usda.gov/dairy/class_III_IV_pr_formulas/class_III_IV_hearing.htm).

In the current model version, there are changes in the way that fluid milk demand and retail fluid prices are estimated. The current model version estimates fluid milk demand as a function of the CPI for fresh whole milk. The price elasticity of demand using this retail measure is -0.15. The CPI for fresh whole milk is projected using the price paid at the plant level (Class I price at 3.25 percent butterfat, including the average

differential and average over-order payment) and the CPI for all products (an exogenous variable projected in the USDA baseline). Thus, changes in the CPI for fresh whole milk reflect changes in raw milk prices within the context of the other marketing services involved in marketing milk from the plant to the retail level. The elasticity of transmission from the CPI for fresh whole milk to the price paid at the plant level is 0.53. Multiplying the estimated retail price elasticity of demand (-0.15) with the estimated elasticity of transmission from the retail to the plant level (0.53) implies that the fluid milk price elasticity of demand for changes in price at the plant level is about -0.08. This is basically comparable to the -0.05 elasticity of demand for fluid milk at the plant level in the previous version of the model.<sup>1</sup>

In the current model version, a retail milk price in dollars per gallon for fortified fresh whole milk is projected using its relationship to the CPI for fresh whole milk.<sup>2</sup> As with the projected CPI for fresh whole milk, the projected retail price reflects changes in raw milk prices within the context of other marketing services involved in marketing milk from the plant to retail level. This contrasts with the calculation of the retail price in previous analyses, which assume a constant margin between the retail price for fluid milk and the plant-level price. For those analyses the change in the retail price was simply calculated by converting the change in the Class I price at Class I butterfat test to a price per gallon.

There are a few other changes in the structure of model equations. Due to apparent structural changes in the whey market in recent years, the equation for whey production was altered to account for the whey solids used in the production of whey protein concentrates since 1992. In the previous version, the U.S. nonfat dry milk (NFDM) export quantity responds to the difference in the domestic price for NFDM and the Northern European FOB price for skim milk powder. Since the EU has become a much less important world supplier of skim milk powder, U.S. NFDM exports now respond to the difference between the domestic NFDM price and the Oceania FOB price for skim milk powder.

## Scenarios Analyzed

For this appendix, the previous Scenarios A through G, I through K, and N are analyzed using the current version of the model and the current baseline (current

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<sup>1</sup> The implied price elasticity of demand for a plant-level change in price in the current model version is not precisely comparable to the price elasticity of for a plant-level change in price in the previous model version. In the previous version, the Class I price at average Class I butterfat test is used. In the current model version, the Class I price at 3.25 butterfat test is used in order to align the plant level price with the CPI for fresh whole milk. BLS does not provide a CPI for all fresh fluid milk that covers the period from 1980 through 2005.

<sup>2</sup> The percentage changes for the CPI for fresh whole milk do not precisely match the percentage changes for the retail price of fortified fresh whole milk in gallons. The index is a broader measure, including all fresh whole milk sold at retail to U.S. urban consumers. The retail price is more specific in that it includes only fortified fresh whole milk, packaged in gallons, and sold in stores.

analyses).<sup>3</sup> Input changes match the corresponding changes used with the previous version of the model and the previous baseline (previous analyses). To distinguish between the two sets of scenarios, scenarios for the current analyses are labeled as A2, B2, C2, etc. Since Dairy Producers of New Mexico (DPNM) dropped the proposal to adopt a separate Class III butterfat price, Scenarios H, L, and M are not analyzed for this appendix.

In his February 27 testimony, Dr. Roger Cryan of National Milk Producers Federation proposed specific Federal order language to adjust make allowances monthly based on energy cost indices. While the proposed language is based upon the Scenario J analysis, it does not precisely match the scenario. The base period make allowances for Scenario J incorporate small adjustments for time differences between the CDFA and Cornell studies. To provide comparable analyses, make allowances for current Scenario J2 analysis match those of the previous Scenario J analysis.<sup>4</sup>

## Scenario Results

Scenario results for this appendix are summarized in table E-1. Detailed results are presented in Tables E-2 through E-13. Whereas the previous baseline ran through 2015, the current baseline runs through 2016. For this reason, ten-year averages are displayed for the current analyses. Since scenario results for the current analyses are very similar to results from the previous analyses, only the more notable differences in the two sets of analyses are discussed in this appendix.

Changes in Federal order Class I use are somewhat greater for the current scenarios than for the previous scenarios. This is due to the greater price elasticity of demand for per-capita fluid milk in the current model version compared to the previous model version.

Changes in government removals of NFDMM are smaller for the current analyses than for the previous analyses. This is simply due to baseline levels. The nine-year average previous-baseline price for NFDMM is \$0.8456 per pound, and government removals of NFDMM are 282 million pounds per year. In the current baseline, the ten-year average NFDMM price is \$1.0029 per pound, and government removals of NFDMM are only

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<sup>3</sup> Analyses of previous scenarios can be found at [http://www.ams.usda.gov/dairy/class\\_III\\_IV\\_pr\\_formulas/class\\_III\\_IV\\_hearing.htm](http://www.ams.usda.gov/dairy/class_III_IV_pr_formulas/class_III_IV_hearing.htm). Analyses of previous Scenarios A through J are discussed in the document labeled as *Preliminary Economic Analyses*. Analysis of previous Scenario K is discussed in *Appendix B*. Analysis of previous Scenario N is discussed in *Appendix C*.

<sup>4</sup> Scenarios J and J2 assume that energy costs in the U.S. are in the same proportions to total manufacturing costs as proportions for California. The fuel and electricity cost numbers as presented in Dr. Mark Stephenson's testimony at the Reconvened Hearing for the Class III and IV Make Allowances indicate otherwise. Interim Final Rule make allowances were determined in part based upon Stephenson's working paper, *Cost of Processing in Cheese, Whey, Butter and Nonfat Dry Milk Plants*. In the final report, Cornell plans to present fuel and electricity data for the plants that have been adjusted to a common time period using corresponding producer price indices.

2 million pounds per year. If NFDM prices are substantially above support, relatively small changes in annual average prices have little effect on government removals. If NFDM prices are relatively close to support prices, small changes in NFDM prices result in more substantial changes in government removals.

For all but one scenario, average changes in the NFDM price for all current analyses are noticeably larger in magnitude than changes in the NFDM price for previous analyses. The exception is Scenario E, where changes in the NFDM price are extremely small for both sets of scenarios. The higher NFDM price level contributes to this situation. According to model equations, NFDM prices change in percentage relationships with consumption and stock levels. With higher baseline prices, the same percentage changes in NFDM prices translate into larger changes in price levels. Also, with NFDM prices at the higher levels, changes in government removals do not act to offset policy changes that affect NFDM prices.

In the current baseline there is a closer price relationship between Class III and Class IV prices. Whereas the average nine-year average baseline difference between Class III and Class IV prices was \$1.66 in the previous baseline, the ten-year average difference is \$0.58 in the current baseline. In both baselines, the Class III skim milk pricing factor is consistently the Class I mover. For all of the previous analyses, the Class III skim milk pricing factor remained the Class I mover. For most of the current analyses, this remains the case. However, with the current analyses, the Class IV skim milk pricing factor becomes the mover for Scenario N in 2008 and for Scenarios F, K, and N in 2010.

In comparing current analyses with previous analyses, changes to variables are usually in the same direction. Where there are offsetting effects within a scenario, there are some exceptions—Scenarios F, G, and N.

For Scenario F (DPNM's proposal to change the price series to the CME for cheese, butter, and NFDM) producer revenue decreases by an average \$1 million per year over the ten-year projection period. For Scenario F2, producer revenue increases by \$9 million per year. Although the direction of impact for producer revenue changes, results for the two scenarios are very similar. Over the ten-year projection period changes in producer revenue are very small compared to baseline levels, a decrease of 0.004 percent for Scenario F and an increase of 0.030 percent for Scenario F2. The same offsetting effects between the protein and butterfat prices described for Scenario F influence the results for Scenario F2, but the magnitudes are slightly different.

For Scenario G (DPNM's proposal to set make allowances at weighted averages provided by the Cornell study) Class II and Class IV prices increase by an average \$0.01 per pound over the ten-year projection period. By contrast, Class II and Class IV prices decrease by \$0.01 per pound for Scenario G2. These differences can be attributed mainly to differences in NFDM price changes. With Scenario G, the NFDM price falls by an average \$0.0015 per pound over the ten-year projection period, and the nonfat solids price increases by \$0.0144 per pound. With Scenario G2, the NFDM price falls an

average \$0.0077 per pound, and the nonfat solids price rises by only \$0.0041 per pound. With Scenario G, the increase in the nonfat solids price is enough to offset the decrease of \$0.0372 in the butterfat price, resulting in the slight increase in Class II and Class IV prices over the ten-year projection period. With Scenario G2, the increase in the nonfat solids price is not enough to offset the decrease in the butterfat price of \$0.0283, resulting in the slight decrease in Class II and Class IV prices over the ten-year projection period.

For Scenario G, the protein price increases by an average \$0.0025 per pound over the ten-year projection period, but for Scenario G2, the protein price decreases by \$0.0101 per pound. This happens for two reasons. First, the average cheese price falls by a lesser amount for Scenario G (\$0.0145 per pound) than for Scenario G2 (\$0.0150 per pound) over the ten-year projection period. Second, the average butterfat price, which has an inverse relationship to the protein price in Federal order formulas, falls by a greater amount in Scenario G (\$0.0334 per pound) than for Scenario G2 (\$0.0227 per pound) over the ten-year projection period.

For Scenario N (International Dairy Food Association's proposal to increase make allowances) the nonfat solids price falls by an average \$0.0037 per pound over the ten-year projection period. For Scenario N2, the nonfat solids price rises by \$0.0039 per pound. With Scenario N2, the increase in the NFDM price is enough to offset the increase in the nonfat solids make allowance.

Table E-1. Model Results for Proposed Class III and Class IV Pricing Changes  
 Ten-year averages, 2007 through 2016

Scenario		Baseline	A2	B2	C2	D2	E2	F2	G2	I2	J2	K2	N2
Proponent	Units		Agri-mark	DFA/ NWDA	DPNM	DPNM	DPNM	DPNM	DPNM	IDFA	NMPF	DPNM	IDFA
		Change from Baseline											
F.O. Minimum Prices, 3.5% BF													
Class I	\$/cwt	17.53	0.00	-0.05	0.11	0.05	-0.01	-0.04	0.14	-0.09	0.00	0.14	-0.20
Class II	\$/cwt	14.94	-0.06	0.04	-0.09	0.17	0.04	0.31	-0.01	0.08	0.00	0.48	0.14
Class III	\$/cwt	14.82	0.00	-0.05	0.11	0.05	-0.01	-0.04	0.14	-0.09	0.00	0.14	-0.21
Class IV	\$/cwt	14.24	-0.06	0.04	-0.09	0.17	0.04	0.31	-0.01	0.08	0.00	0.48	0.14
Blend	\$/cwt	15.75	-0.01	-0.03	0.06	0.07	0.00	0.04	0.11	-0.05	0.00	0.21	-0.13
F.O. Minimum Prices at Test													
Class I	\$/cwt	14.75	-0.01	-0.06	0.13	0.05	-0.03	-0.03	0.18	-0.11	0.00	0.20	-0.25
Class II	\$/cwt	23.24	-0.03	0.07	-0.16	0.15	0.10	0.27	-0.11	0.13	0.00	0.30	0.27
Class III	\$/cwt	14.54	0.00	-0.05	0.11	0.05	-0.01	-0.04	0.15	-0.09	0.00	0.16	-0.21
Class IV	\$/cwt	18.60	-0.04	0.08	-0.18	0.12	0.08	0.30	-0.14	0.15	0.00	0.28	0.31
Blend	\$/cwt	16.17	-0.01	-0.03	0.06	0.07	0.00	0.03	0.10	-0.05	0.00	0.20	-0.12
NASS Wtd. Avg. Product Prices													
Cheddar	\$/pound	1.5340	0.0023	0.0033	-0.0076	-0.0135	-0.0017	-0.0089	-0.0150	0.0063	0.0009	-0.0377	0.0158
Butter	\$/pound	1.7797	0.0052	0.0053	-0.0126	-0.0296	-0.0049	-0.0224	-0.0283	0.0103	0.0016	-0.0824	0.0264
NFDM	\$/pound	1.0029	0.0008	0.0021	-0.0049	-0.0049	0.0000	-0.0017	-0.0077	0.0041	0.0002	-0.0137	0.0099
Whey	\$/pound	0.3583	0.0004	0.0007	-0.0015	-0.0026	-0.0003	-0.0017	-0.0030	0.0013	0.0002	-0.0073	0.0032
Retail fluid milk price	\$/gal.	3.3768	-0.0002	-0.0032	0.0076	0.0032	-0.0011	-0.0026	0.0099	-0.0063	0.0000	0.0101	-0.0140
Component Prices													
Protein	\$/pound	2.3040	-0.0066	-0.0243	0.0574	0.0243	-0.0184	-0.0055	-0.0101	-0.0471	0.0003	0.0106	-0.0888
Butterfat	\$/pound	1.9914	0.0045	0.0064	-0.0152	-0.0029	0.0123	-0.0049	-0.0227	0.0123	0.0011	-0.0335	0.0302
Other solids	\$/pound	0.1676	0.0005	0.0007	-0.0016	-0.0027	-0.0003	-0.0017	0.0441	0.0013	-0.0009	0.0396	-0.0084
Nonfat solids	\$/pound	0.8375	-0.0083	0.0021	-0.0048	0.0203	0.0000	0.0376	0.0082	0.0041	-0.0007	0.0682	0.0039

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Table E-1 Continued. Model Results for Proposed Class III and Class IV Pricing Changes

Scenario		Baseline	A2	B2	C2	D2	E2	F2	G2	I2	J2	K2	N2
Proponent			Agri-mark	DFA/ NWDA	DPNM	DPNM	DPNM	DPNM	DPNM	IDFA	NMPF	DPNM	IDFA
		Units	Change from Baseline										
<b>Skim Milk Prices</b>													
Class I skim price	\$/cwt	10.84	-0.02	-0.07	0.17	0.06	-0.06	-0.02	0.23	-0.14	0.00	0.27	-0.32
Class II skim price	\$/cwt	8.24	-0.08	0.02	-0.04	0.18	0.00	0.34	0.07	0.04	-0.01	0.61	0.04
Class III skim price	\$/cwt	8.13	-0.02	-0.07	0.17	0.06	-0.06	-0.03	0.23	-0.14	0.00	0.27	-0.32
Class IV skim price	\$/cwt	7.54	-0.08	0.02	-0.04	0.18	0.00	0.34	0.07	0.04	-0.01	0.61	0.04
<b>F.O. Class Uses</b>													
Class I	mil. pounds	44,972	1	11	-26	-11	4	9	-34	21	0	-35	48
Class II	mil. pounds	17,308	6	-13	30	-27	-18	-52	21	-25	-1	-57	-51
Class III	mil. pounds	52,646	-6	-13	29	35	1	15	49	-25	-3	97	-59
Class IV	mil. pounds	11,362	-12	-31	73	75	0	26	116	-60	-4	213	-143
Total Marketings	mil. pounds	126,288	-10	-45	107	72	-13	-2	153	-88	-7	218	-207
<b>Federal Order Cash Receipts</b>													
	mil. \$	20,438	-17	-39	93	101	0	42	152	-76	-1	290	-184
<b>All Milk Price</b>													
	\$/cwt	15.98	0.00	-0.02	0.04	0.03	0.00	0.00	0.06	-0.03	0.00	0.09	-0.08
<b>Milk Cows</b>													
	1000s	8,705	-1	-2	5	4	0	0	7	-4	0	11	-10
<b>Yield per Cow</b>													
	pounds	21,574	-1	-3	7	5	-1	1	10	-5	-1	15	-13
<b>U.S. Marketings<sup>2</sup></b>													
	mil. pounds	186,979	-19	-70	164	128	-14	16	243	-136	-11	379	-320
<b>Government removals of NFDN</b>													
	mil. pounds	2	0	0	0	0	0	0	0	0	0	1	0
<b>U.S. Producer Revenue<sup>3</sup></b>													
	mil. \$	29,936	-12	-42	99	75	-9	9	147	-82	1	224	-194

<sup>1</sup> For these analyses, the baseline reflects adjustments from the published USDA baseline to reflect changes in manufacturing (make) allowances per the Interim Final Rule issued by USDA on December 26, 2006.

<sup>2</sup> U.S. Marketings differs from U.S. milk production due to farm use of milk.

<sup>3</sup> U.S. Producer Revenue includes Milk Income Loss Contract payments for 2007.



Table E-2. All-Milk Price and Producer Revenue

	Units	Scenario	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	10 Yr. Avg.	
All Milk	\$/cwt	Baseline	13.75	14.74	15.40	15.93	16.33	16.55	16.63	16.77	16.80	16.86	15.98	
	\$/cwt	A2	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	\$/cwt	B2	-0.04	-0.03	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.02
	\$/cwt	C2	0.10	0.06	0.05	0.04	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.04
	\$/cwt	D2	0.09	0.05	0.04	0.03	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.03
	\$/cwt	E2	0.00	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	\$/cwt	F2	0.02	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	\$/cwt	G2	0.13	0.10	0.07	0.06	0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.06
	\$/cwt	I2	-0.07	-0.06	-0.04	-0.03	-0.03	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.03
	\$/cwt	J2	-0.02	-0.02	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00
	\$/cwt	K2	0.24	0.15	0.10	0.09	0.07	0.06	0.06	0.06	0.05	0.05	0.05	0.09
	\$/cwt	N2	-0.17	-0.12	-0.10	-0.07	-0.07	-0.06	-0.05	-0.05	-0.05	-0.05	-0.05	-0.08
	Avg. MILC Payment (MILC payments/milk production)	\$/cwt	Baseline	0.18										
\$/cwt		A2	0.00											
\$/cwt		B2	0.01											
\$/cwt		C2	-0.02											
\$/cwt		D2	-0.02											
\$/cwt		E2	0.00											
\$/cwt		F2	0.00											
\$/cwt		G2	-0.02											
\$/cwt		I2	0.01											
\$/cwt		J2	0.00											
\$/cwt		K2	-0.03											
\$/cwt		N2	0.03											
Producer Revenue (including MILC)		mil. \$	Baseline	25,338	26,952	28,158	29,254	30,195	30,963	31,350	31,934	32,334	32,886	29,936
	mil. \$	A2	-20	-15	-12	-11	-10	-9	-10	-10	-9	-10	-12	
	mil. \$	B2	-59	-58	-48	-43	-38	-36	-36	-35	-35	-35	-42	
	mil. \$	C2	142	131	112	99	93	91	83	82	79	77	99	
	mil. \$	D2	132	100	81	71	67	66	61	60	56	56	75	
	mil. \$	E2	-7	-11	-11	-9	-9	-9	-8	-8	-8	-8	-9	
	mil. \$	F2	32	7	2	17	0	2	5	6	6	8	9	
	mil. \$	G2	210	201	165	147	133	125	124	122	120	122	147	
	mil. \$	I2	-115	-112	-94	-83	-75	-71	-70	-68	-67	-68	-82	
	mil. \$	J2	-39	-34	-12	0	16	19	20	17	14	7	1	
	mil. \$	K2	387	304	239	222	192	185	182	178	173	177	224	
	mil. \$	N2	-275	-255	-224	-185	-181	-170	-167	-163	-161	-163	-194	

Table E-3. Milk Production Variables

	Units	Scenario	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	10 Yr. Avg.		
Milk Cows	1000s	Baseline	9,043	8,945	8,853	8,768	8,701	8,642	8,590	8,544	8,501	8,458	8,705		
	1000s	A2	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1		
	1000s	B2	-1	-2	-2	-2	-2	-2	-2	-2	-2	-3	-3	-2	
	1000s	C2	2	3	4	5	5	6	6	6	6	6	6	5	
	1000s	D2	2	3	4	4	4	4	4	4	4	4	4	4	
	1000s	E2	0	0	0	0	0	0	-1	-1	-1	-1	-1	0	
	1000s	F2	0	0	0	1	1	0	0	0	0	0	0	0	
	1000s	G2	3	5	7	7	8	8	8	8	9	9	9	9	7
	1000s	I2	-2	-3	-4	-4	-4	-4	-5	-5	-5	-5	-5	-5	-4
	1000s	J2	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	
	1000s	K2	5	9	11	12	12	13	13	13	13	13	13	11	
	1000s	N2	-4	-7	-9	-10	-10	-11	-11	-11	-11	-12	-12	-10	
Yield per Cow	pounds	Baseline	20,235	20,540	20,745	21,021	21,332	21,719	21,998	22,343	22,694	23,110	21,574		
	pounds	A2	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
	pounds	B2	0	-1	-2	-2	-3	-3	-4	-4	-4	-4	-5	-3	
	pounds	C2	0	2	4	6	7	8	9	9	9	10	11	7	
	pounds	D2	0	2	4	5	5	6	7	7	7	8	8	5	
	pounds	E2	0	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	
	pounds	F2	0	1	1	1	1	1	1	1	1	1	1	1	
	pounds	G2	0	3	6	9	10	12	13	14	15	16	16	10	
	pounds	I2	0	-2	-4	-5	-6	-7	-7	-8	-8	-8	-9	-5	
	pounds	J2	0	-1	-1	-1	-1	-1	-1	0	0	0	0	-1	
	pounds	K2	0	6	11	14	16	18	20	21	23	24	24	15	
	pounds	N2	0	-4	-8	-11	-13	-15	-17	-18	-20	-21	-21	-13	
Milk Production	mil. pounds	Baseline	182,995	183,741	183,666	184,323	185,619	187,697	188,961	190,906	192,923	195,460	187,629		
	mil. pounds	A2	-6	-12	-16	-18	-20	-22	-23	-24	-25	-26	-26	-19	
	mil. pounds	B2	-17	-39	-55	-67	-75	-81	-86	-90	-93	-96	-96	-70	
	mil. pounds	C2	41	92	129	155	174	190	202	211	218	225	225	164	
	mil. pounds	D2	38	80	106	123	136	147	154	160	165	169	169	128	
	mil. pounds	E2	-2	-6	-9	-12	-14	-16	-17	-19	-20	-21	-21	-14	
	mil. pounds	F2	9	15	15	18	18	17	17	17	17	17	18	16	
	mil. pounds	G2	60	138	193	231	259	280	296	311	323	334	334	243	
	mil. pounds	I2	-33	-77	-108	-130	-145	-157	-166	-174	-181	-188	-188	-136	
	mil. pounds	J2	-11	-25	-30	-28	-21	-12	-4	3	7	10	10	-11	
	mil. pounds	K2	111	236	313	367	405	433	455	474	489	504	504	379	
	mil. pounds	N2	-80	-180	-253	-302	-339	-369	-392	-411	-428	-444	-444	-320	

Table continued on next page

Table E-3 Continued. Milk Production Variables

	Units	Scenario	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	10 Yr. Avg.
Farm Use	mil. pounds	Baseline	1,000	900	800	700	700	600	500	500	400	400	650
Marketings	mil. pounds	Baseline	181,995	182,841	182,866	183,623	184,919	187,097	188,461	190,406	192,523	195,060	186,979
	mil. pounds	A2	-6	-12	-16	-18	-20	-22	-23	-24	-25	-26	-19
	mil. pounds	B2	-17	-39	-55	-67	-75	-81	-86	-90	-93	-96	-70
	mil. pounds	C2	41	92	129	155	174	190	202	211	218	225	164
	mil. pounds	D2	38	80	106	123	136	147	154	160	165	169	128
	mil. pounds	E2	-2	-6	-9	-12	-14	-16	-17	-19	-20	-21	-14
	mil. pounds	F2	9	15	15	18	18	17	17	17	17	18	16
	mil. pounds	G2	60	138	193	231	259	280	296	311	323	334	243
	mil. pounds	I2	-33	-77	-108	-130	-145	-157	-166	-174	-181	-188	-136
	mil. pounds	J2	-11	-25	-30	-28	-21	-12	-4	3	7	10	-11
	mil. pounds	K2	111	236	313	367	405	433	455	474	489	504	379
	mil. pounds	N2	-80	-180	-253	-302	-339	-369	-392	-411	-428	-444	-320

Table E-4. Product Prices

	Units	Scenario	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	10 Yr. Avg.	
Cheddar cheese	\$/pound	Baseline	1.3555	1.4259	1.4931	1.5358	1.5698	1.5885	1.5863	1.5959	1.5933	1.5959	1.5340	
	\$/pound	A2	0.0014	0.0020	0.0023	0.0024	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0023
	\$/pound	B2	0.0011	0.0020	0.0028	0.0034	0.0037	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0033
	\$/pound	C2	-0.0026	-0.0048	-0.0066	-0.0078	-0.0086	-0.0091	-0.0092	-0.0092	-0.0093	-0.0093	-0.0092	-0.0076
	\$/pound	D2	-0.0070	-0.0107	-0.0129	-0.0140	-0.0148	-0.0152	-0.0151	-0.0152	-0.0152	-0.0152	-0.0150	-0.0135
	\$/pound	E2	-0.0012	-0.0017	-0.0018	-0.0018	-0.0018	-0.0017	-0.0017	-0.0017	-0.0017	-0.0017	-0.0017	-0.0017
	\$/pound	F2	-0.0066	-0.0087	-0.0093	-0.0096	-0.0094	-0.0093	-0.0093	-0.0090	-0.0090	-0.0090	-0.0089	-0.0089
	\$/pound	G2	-0.0065	-0.0107	-0.0137	-0.0154	-0.0166	-0.0172	-0.0173	-0.0173	-0.0174	-0.0174	-0.0174	-0.0150
	\$/pound	I2	0.0021	0.0040	0.0055	0.0065	0.0072	0.0075	0.0076	0.0076	0.0077	0.0077	0.0076	0.0063
	\$/pound	J2	0.0015	0.0023	0.0024	0.0020	0.0014	0.0007	0.0001	-0.0003	-0.0006	-0.0007	-0.0007	0.0009
	\$/pound	K2	-0.0204	-0.0306	-0.0365	-0.0394	-0.0411	-0.0420	-0.0417	-0.0417	-0.0419	-0.0419	-0.0416	-0.0377
	\$/pound	N2	0.0056	0.0101	0.0139	0.0160	0.0177	0.0186	0.0188	0.0190	0.0190	0.0191	0.0190	0.0158
Butter	\$/pound	Baseline	1.3302	1.5953	1.7118	1.8014	1.8431	1.8591	1.8898	1.9074	1.9168	1.9420	1.7797	
	\$/pound	A2	0.0067	0.0061	0.0054	0.0048	0.0047	0.0047	0.0047	0.0048	0.0049	0.0049	0.0049	0.0052
	\$/pound	B2	0.0040	0.0056	0.0057	0.0052	0.0052	0.0053	0.0053	0.0054	0.0054	0.0057	0.0057	0.0053
	\$/pound	C2	-0.0098	-0.0131	-0.0133	-0.0123	-0.0124	-0.0128	-0.0127	-0.0127	-0.0131	-0.0136	-0.0134	-0.0126
	\$/pound	D2	-0.0320	-0.0331	-0.0307	-0.0282	-0.0280	-0.0283	-0.0281	-0.0287	-0.0287	-0.0295	-0.0292	-0.0296
	\$/pound	E2	-0.0060	-0.0057	-0.0051	-0.0046	-0.0046	-0.0045	-0.0045	-0.0046	-0.0046	-0.0047	-0.0047	-0.0049
	\$/pound	F2	-0.0325	-0.0270	-0.0230	-0.0211	-0.0199	-0.0199	-0.0196	-0.0199	-0.0205	-0.0205	-0.0202	-0.0224
	\$/pound	G2	-0.0276	-0.0311	-0.0298	-0.0272	-0.0269	-0.0273	-0.0272	-0.0279	-0.0279	-0.0290	-0.0290	-0.0283
	\$/pound	I2	0.0078	0.0109	0.0110	0.0101	0.0100	0.0102	0.0102	0.0102	0.0105	0.0110	0.0110	0.0103
	\$/pound	J2	0.0066	0.0067	0.0044	0.0027	0.0009	-0.0002	-0.0009	-0.0009	-0.0013	-0.0016	-0.0014	0.0016
	\$/pound	K2	-0.0929	-0.0931	-0.0858	-0.0787	-0.0772	-0.0778	-0.0772	-0.0789	-0.0814	-0.0814	-0.0807	-0.0824
	\$/pound	N2	0.0223	0.0279	0.0282	0.0251	0.0255	0.0259	0.0259	0.0259	0.0268	0.0280	0.0280	0.0264
Nonfat dry milk	\$/pound	Baseline	0.9213	0.9635	0.9819	1.0115	1.0243	1.0274	1.0326	1.0272	1.0205	1.0193	1.0029	
	\$/pound	A2	0.0002	0.0004	0.0007	0.0009	0.0010	0.0010	0.0010	0.0009	0.0008	0.0008	0.0008	0.0008
	\$/pound	B2	0.0006	0.0012	0.0019	0.0024	0.0026	0.0026	0.0026	0.0025	0.0025	0.0023	0.0023	0.0021
	\$/pound	C2	-0.0016	-0.0026	-0.0043	-0.0055	-0.0061	-0.0061	-0.0061	-0.0060	-0.0058	-0.0054	-0.0052	-0.0049
	\$/pound	D2	-0.0017	-0.0028	-0.0044	-0.0058	-0.0063	-0.0062	-0.0061	-0.0057	-0.0057	-0.0053	-0.0051	-0.0049
	\$/pound	E2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001	0.0000
	\$/pound	F2	-0.0006	-0.0010	-0.0015	-0.0025	-0.0021	-0.0020	-0.0020	-0.0018	-0.0018	-0.0016	-0.0016	-0.0017
	\$/pound	G2	-0.0024	-0.0042	-0.0068	-0.0089	-0.0096	-0.0095	-0.0095	-0.0095	-0.0090	-0.0085	-0.0083	-0.0077
	\$/pound	I2	0.0013	0.0023	0.0037	0.0048	0.0052	0.0051	0.0051	0.0051	0.0048	0.0046	0.0045	0.0041
	\$/pound	J2	0.0004	0.0008	0.0010	0.0009	0.0004	0.0001	-0.0002	-0.0004	-0.0004	-0.0005	-0.0004	0.0002
	\$/pound	K2	-0.0046	-0.0079	-0.0124	-0.0164	-0.0172	-0.0169	-0.0167	-0.0167	-0.0157	-0.0147	-0.0143	-0.0137
	\$/pound	N2	0.0030	0.0052	0.0089	0.0111	0.0125	0.0124	0.0124	0.0124	0.0118	0.0112	0.0109	0.0099

Table continued on next page

Table E-4 Continued. Product Prices

	Units	Scenario	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	10 Yr. Avg.
Dry whey	\$/pound	Baseline	0.3212	0.3197	0.3249	0.3376	0.3529	0.3627	0.3749	0.3894	0.3981	0.4014	0.3583
	\$/pound	A2	0.0002	0.0003	0.0004	0.0004	0.0005	0.0005	0.0005	0.0006	0.0006	0.0006	0.0004
	\$/pound	B2	0.0002	0.0003	0.0004	0.0006	0.0007	0.0008	0.0008	0.0009	0.0009	0.0010	0.0007
	\$/pound	C2	-0.0004	-0.0007	-0.0010	-0.0013	-0.0016	-0.0018	-0.0019	-0.0021	-0.0022	-0.0022	-0.0015
	\$/pound	D2	-0.0011	-0.0016	-0.0020	-0.0024	-0.0027	-0.0029	-0.0031	-0.0033	-0.0035	-0.0035	-0.0026
	\$/pound	E2	-0.0002	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0004	-0.0004	-0.0004	-0.0003
	\$/pound	F2	-0.0010	-0.0013	-0.0015	-0.0016	-0.0017	-0.0018	-0.0019	-0.0020	-0.0021	-0.0021	-0.0017
	\$/pound	G2	-0.0010	-0.0017	-0.0022	-0.0026	-0.0030	-0.0033	-0.0036	-0.0039	-0.0041	-0.0042	-0.0030
	\$/pound	I2	0.0003	0.0006	0.0009	0.0011	0.0013	0.0015	0.0016	0.0017	0.0018	0.0019	0.0013
	\$/pound	J2	0.0002	0.0004	0.0004	0.0004	0.0003	0.0002	0.0001	0.0000	0.0000	-0.0001	0.0002
	\$/pound	K2	-0.0032	-0.0047	-0.0058	-0.0067	-0.0075	-0.0081	-0.0086	-0.0092	-0.0096	-0.0098	-0.0073
	\$/pound	N2	0.0009	0.0016	0.0022	0.0027	0.0032	0.0036	0.0040	0.0043	0.0045	0.0046	0.0032
Retail fluid milk	\$/gallon	Baseline	3.0462	3.1407	3.2299	3.3051	3.3758	3.4354	3.4814	3.5378	3.5833	3.6325	3.3768
	\$/gallon	A2	-0.0009	-0.0004	-0.0002	-0.0001	-0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	-0.0002
	\$/gallon	B2	-0.0050	-0.0042	-0.0035	-0.0031	-0.0029	-0.0027	-0.0027	-0.0027	-0.0027	-0.0027	-0.0032
	\$/gallon	C2	0.0127	0.0095	0.0082	0.0073	0.0069	0.0068	0.0063	0.0063	0.0062	0.0061	0.0076
	\$/gallon	D2	0.0094	0.0051	0.0036	0.0027	0.0024	0.0023	0.0018	0.0018	0.0016	0.0014	0.0032
	\$/gallon	E2	-0.0008	-0.0011	-0.0012	-0.0012	-0.0012	-0.0012	-0.0011	-0.0012	-0.0012	-0.0012	-0.0011
	\$/gallon	F2	-0.0012	-0.0026	-0.0030	-0.0003	-0.0032	-0.0031	-0.0030	-0.0031	-0.0031	-0.0031	-0.0026
	\$/gallon	G2	0.0166	0.0132	0.0109	0.0095	0.0086	0.0081	0.0080	0.0079	0.0079	0.0080	0.0099
	\$/gallon	I2	-0.0097	-0.0081	-0.0069	-0.0061	-0.0056	-0.0053	-0.0053	-0.0052	-0.0052	-0.0053	-0.0063
	\$/gallon	J2	-0.0027	-0.0020	-0.0007	0.0000	0.0009	0.0010	0.0011	0.0009	0.0008	0.0004	0.0000
	\$/gallon	K2	0.0248	0.0155	0.0111	0.0107	0.0075	0.0070	0.0066	0.0063	0.0061	0.0060	0.0101
	\$/gallon	N2	-0.0228	-0.0165	-0.0160	-0.0117	-0.0129	-0.0123	-0.0121	-0.0119	-0.0120	-0.0121	-0.0140

Table E-5. Federal Order Component Prices and Pricing Factors

	Units	Scenario	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	10 Yr. Avg.
Butterfat	\$/pound	Baseline	1.4520	1.7701	1.9100	2.0174	2.0674	2.0867	2.1236	2.1447	2.1559	2.1862	1.9914
	\$/pound	A2	0.0064	0.0056	0.0048	0.0041	0.0039	0.0040	0.0039	0.0040	0.0042	0.0042	0.0045
	\$/pound	B2	0.0048	0.0068	0.0068	0.0063	0.0062	0.0063	0.0063	0.0065	0.0068	0.0068	0.0064
	\$/pound	C2	-0.0117	-0.0157	-0.0160	-0.0148	-0.0148	-0.0153	-0.0152	-0.0157	-0.0163	-0.0161	-0.0152
	\$/pound	D2	-0.0148	-0.0108	-0.0056	-0.0007	0.0003	0.0002	0.0011	0.0007	-0.0001	0.0008	-0.0029
	\$/pound	E2	0.0060	0.0093	0.0114	0.0129	0.0134	0.0136	0.0140	0.0141	0.0141	0.0144	0.0123
	\$/pound	F2	-0.0170	-0.0104	-0.0056	-0.0033	-0.0020	-0.0019	-0.0015	-0.0019	-0.0026	-0.0023	-0.0049
	\$/pound	G2	-0.0219	-0.0260	-0.0245	-0.0214	-0.0211	-0.0215	-0.0213	-0.0222	-0.0236	-0.0235	-0.0227
	\$/pound	I2	0.0093	0.0131	0.0132	0.0121	0.0121	0.0123	0.0122	0.0126	0.0132	0.0132	0.0123
	\$/pound	J2	0.0061	0.0061	0.0037	0.0020	0.0004	-0.0006	-0.0014	-0.0017	-0.0021	-0.0019	0.0011
	\$/pound	K2	-0.0554	-0.0503	-0.0391	-0.0286	-0.0259	-0.0263	-0.0250	-0.0267	-0.0295	-0.0283	-0.0335
	\$/pound	N2	0.0253	0.0320	0.0324	0.0287	0.0291	0.0297	0.0296	0.0307	0.0321	0.0322	0.0302
	Protein	\$/pound	Baseline	2.2968	2.1886	2.2581	2.2825	2.3393	2.3793	2.3335	2.3421	2.3217	2.2984
\$/pound		A2	-0.0115	-0.0088	-0.0069	-0.0058	-0.0055	-0.0054	-0.0054	-0.0055	-0.0057	-0.0057	-0.0066
\$/pound		B2	-0.0297	-0.0286	-0.0261	-0.0238	-0.0227	-0.0222	-0.0221	-0.0222	-0.0225	-0.0226	-0.0243
\$/pound		C2	0.0749	0.0653	0.0608	0.0555	0.0545	0.0546	0.0522	0.0526	0.0525	0.0515	0.0574
\$/pound		D2	0.0636	0.0401	0.0283	0.0193	0.0173	0.0173	0.0145	0.0148	0.0149	0.0133	0.0243
\$/pound		E2	-0.0102	-0.0151	-0.0178	-0.0193	-0.0198	-0.0200	-0.0202	-0.0203	-0.0203	-0.0206	-0.0184
\$/pound		F2	0.0145	0.0011	-0.0060	-0.0094	-0.0103	-0.0099	-0.0095	-0.0089	-0.0082	-0.0083	-0.0055
\$/pound		G2	0.0164	0.0071	-0.0042	-0.0131	-0.0171	-0.0186	-0.0190	-0.0185	-0.0171	-0.0170	-0.0101
\$/pound		I2	-0.0577	-0.0555	-0.0506	-0.0462	-0.0440	-0.0431	-0.0429	-0.0431	-0.0437	-0.0438	-0.0471
\$/pound		J2	-0.0090	-0.0061	-0.0012	0.0015	0.0037	0.0037	0.0037	0.0030	0.0025	0.0014	0.0003
\$/pound		K2	0.0968	0.0506	0.0199	-0.0014	-0.0084	-0.0096	-0.0123	-0.0108	-0.0085	-0.0101	0.0106
\$/pound		N2	-0.1164	-0.1092	-0.0972	-0.0866	-0.0815	-0.0792	-0.0784	-0.0789	-0.0804	-0.0806	-0.0888
Nonfat Solids		\$/pound	Baseline	0.7567	0.7984	0.8166	0.8459	0.8586	0.8617	0.8669	0.8615	0.8548	0.8536
	\$/pound	A2	-0.0089	-0.0087	-0.0084	-0.0082	-0.0081	-0.0082	-0.0082	-0.0082	-0.0083	-0.0083	-0.0083
	\$/pound	B2	0.0006	0.0011	0.0019	0.0024	0.0026	0.0026	0.0026	0.0025	0.0023	0.0023	0.0021
	\$/pound	C2	-0.0016	-0.0026	-0.0042	-0.0055	-0.0060	-0.0060	-0.0060	-0.0057	-0.0053	-0.0052	-0.0048
	\$/pound	D2	0.0212	0.0214	0.0202	0.0197	0.0196	0.0198	0.0201	0.0203	0.0205	0.0207	0.0203
	\$/pound	E2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001	0.0000
	\$/pound	F2	0.0387	0.0383	0.0378	0.0368	0.0372	0.0373	0.0374	0.0375	0.0377	0.0377	0.0376
	\$/pound	G2	0.0135	0.0116	0.0091	0.0070	0.0063	0.0064	0.0065	0.0069	0.0074	0.0076	0.0082
	\$/pound	I2	0.0012	0.0022	0.0036	0.0047	0.0051	0.0050	0.0050	0.0048	0.0045	0.0044	0.0041
	\$/pound	J2	-0.0057	-0.0052	-0.0027	-0.0012	0.0005	0.0011	0.0016	0.0016	0.0017	0.0013	-0.0007
	\$/pound	K2	0.0750	0.0730	0.0689	0.0657	0.0652	0.0657	0.0660	0.0669	0.0677	0.0681	0.0682
	\$/pound	N2	-0.0029	-0.0008	0.0029	0.0051	0.0064	0.0063	0.0063	0.0058	0.0051	0.0049	0.0039

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Table E-5 Continued. Federal Order Component Prices and Pricing Factors

	Units	Scenario	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	10 Yr. Avg.	
Other Solids	\$/pound	Baseline	0.1294	0.1278	0.1332	0.1463	0.1620	0.1721	0.1847	0.1996	0.2086	0.2119	0.1676	
	\$/pound	A2	0.0002	0.0003	0.0004	0.0004	0.0005	0.0005	0.0005	0.0006	0.0006	0.0006	0.0006	0.0005
	\$/pound	B2	0.0002	0.0003	0.0005	0.0006	0.0007	0.0008	0.0008	0.0009	0.0010	0.0010	0.0010	0.0007
	\$/pound	C2	-0.0004	-0.0008	-0.0011	-0.0014	-0.0016	-0.0018	-0.0020	-0.0021	-0.0021	-0.0023	-0.0023	-0.0016
	\$/pound	D2	-0.0011	-0.0017	-0.0021	-0.0024	-0.0028	-0.0030	-0.0032	-0.0034	-0.0034	-0.0036	-0.0036	-0.0027
	\$/pound	E2	-0.0002	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0004	-0.0004	-0.0004	-0.0004	-0.0003
	\$/pound	F2	-0.0011	-0.0014	-0.0015	-0.0017	-0.0018	-0.0019	-0.0019	-0.0020	-0.0021	-0.0021	-0.0021	-0.0017
	\$/pound	G2	0.0461	0.0455	0.0449	0.0445	0.0441	0.0437	0.0435	0.0432	0.0432	0.0430	0.0429	0.0441
	\$/pound	I2	0.0003	0.0006	0.0009	0.0011	0.0014	0.0015	0.0016	0.0016	0.0018	0.0019	0.0019	0.0013
	\$/pound	J2	-0.0055	-0.0054	-0.0034	-0.0020	0.0001	0.0010	0.0017	0.0018	0.0018	0.0018	0.0013	-0.0009
	\$/pound	K2	0.0439	0.0423	0.0412	0.0403	0.0395	0.0389	0.0383	0.0377	0.0373	0.0373	0.0371	0.0396
	\$/pound	N2	-0.0107	-0.0100	-0.0094	-0.0088	-0.0083	-0.0079	-0.0076	-0.0072	-0.0072	-0.0070	-0.0069	-0.0084
Class I Skim	\$/cwt	Baseline	10.59	10.25	10.50	10.65	10.92	11.10	11.03	11.15	11.14	11.09	10.84	
	\$/cwt	A2	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.02
	\$/cwt	B2	-0.09	-0.09	-0.08	-0.07	-0.07	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.07
	\$/cwt	C2	0.23	0.20	0.18	0.16	0.16	0.16	0.15	0.15	0.15	0.15	0.15	0.17
	\$/cwt	D2	0.19	0.11	0.08	0.05	0.04	0.04	0.03	0.03	0.03	0.03	0.02	0.06
	\$/cwt	E2	-0.03	-0.05	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.07	-0.07	-0.07	-0.06
	\$/cwt	F2	0.04	0.00	-0.03	0.01	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.02
	\$/cwt	G2	0.32	0.29	0.25	0.22	0.21	0.20	0.20	0.20	0.20	0.20	0.20	0.23
	\$/cwt	I2	-0.18	-0.17	-0.15	-0.14	-0.13	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.14
	\$/cwt	J2	-0.06	-0.05	-0.02	-0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.00
	\$/cwt	K2	0.56	0.41	0.30	0.27	0.21	0.20	0.19	0.19	0.19	0.19	0.19	0.27
	\$/cwt	N2	-0.42	-0.36	-0.36	-0.28	-0.30	-0.29	-0.29	-0.29	-0.29	-0.29	-0.29	-0.32
Class II Skim	\$/cwt	Baseline	7.51	7.89	8.05	8.31	8.43	8.46	8.50	8.45	8.39	8.38	8.24	
	\$/cwt	A2	-0.08	-0.08	-0.08	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.08
	\$/cwt	B2	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
	\$/cwt	C2	-0.01	-0.02	-0.04	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.04
	\$/cwt	D2	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.19	0.18
	\$/cwt	E2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	\$/cwt	F2	0.35	0.34	0.34	0.33	0.33	0.34	0.34	0.34	0.34	0.34	0.34	0.34
	\$/cwt	G2	0.12	0.10	0.08	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07
	\$/cwt	I2	0.01	0.02	0.03	0.04	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04
	\$/cwt	J2	-0.05	-0.05	-0.02	-0.01	0.00	0.01	0.01	0.01	0.01	0.02	0.01	-0.01
	\$/cwt	K2	0.68	0.66	0.62	0.59	0.59	0.59	0.59	0.59	0.60	0.61	0.61	0.61
	\$/cwt	N2	-0.03	-0.01	0.03	0.05	0.06	0.06	0.06	0.06	0.05	0.05	0.04	0.04

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Table E-5 Continued. Federal Order Component Prices and Pricing Factors

	Units	Scenario	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	10 Yr. Avg.	
Class III Skim	\$/cwt	Baseline	7.88	7.54	7.79	7.94	8.21	8.39	8.32	8.44	8.43	8.38	8.13	
	\$/cwt	A2	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.02
	\$/cwt	B2	-0.09	-0.09	-0.08	-0.07	-0.07	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.07
	\$/cwt	C2	0.23	0.20	0.18	0.16	0.16	0.16	0.15	0.15	0.15	0.15	0.15	0.17
	\$/cwt	D2	0.19	0.11	0.08	0.05	0.04	0.04	0.03	0.03	0.03	0.03	0.02	0.06
	\$/cwt	E2	-0.03	-0.05	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.07	-0.07	-0.07	-0.06
	\$/cwt	F2	0.04	0.00	-0.03	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.03
	\$/cwt	G2	0.32	0.29	0.25	0.22	0.21	0.20	0.20	0.20	0.20	0.20	0.20	0.23
	\$/cwt	I2	-0.18	-0.17	-0.15	-0.14	-0.13	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.14
	\$/cwt	J2	-0.06	-0.05	-0.02	-0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.00
	\$/cwt	K2	0.56	0.41	0.30	0.23	0.21	0.20	0.19	0.19	0.19	0.19	0.19	0.27
	\$/cwt	N2	-0.42	-0.40	-0.36	-0.32	-0.30	-0.29	-0.29	-0.29	-0.29	-0.29	-0.29	-0.32
Class IV Skim	\$/cwt	Baseline	6.81	7.19	7.35	7.61	7.73	7.76	7.80	7.75	7.69	7.68	7.54	
	\$/cwt	A2	-0.08	-0.08	-0.08	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.08
	\$/cwt	B2	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
	\$/cwt	C2	-0.01	-0.02	-0.04	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.04
	\$/cwt	D2	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.19	0.18
	\$/cwt	E2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	\$/cwt	F2	0.35	0.34	0.34	0.33	0.33	0.34	0.34	0.34	0.34	0.34	0.34	0.34
	\$/cwt	G2	0.12	0.10	0.08	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07
	\$/cwt	I2	0.01	0.02	0.03	0.04	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04
	\$/cwt	J2	-0.05	-0.05	-0.02	-0.01	0.00	0.01	0.01	0.01	0.01	0.02	0.01	-0.01
	\$/cwt	K2	0.68	0.66	0.62	0.59	0.59	0.59	0.59	0.59	0.60	0.61	0.61	0.61
	\$/cwt	N2	-0.03	-0.01	0.03	0.05	0.06	0.06	0.06	0.06	0.05	0.05	0.04	0.04



Table E-6. Federal Order Milk Prices at 3.5 Percent Butterfat

	Units	Scenario	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	10 Yr. Avg.
Class I	\$/cwt.	Baseline	15.40	16.18	16.91	17.43	17.87	18.11	18.17	18.36	18.39	18.44	17.53
	\$/cwt.	A2	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	\$/cwt.	B2	-0.07	-0.06	-0.05	-0.05	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
	\$/cwt.	C2	0.18	0.14	0.12	0.11	0.10	0.10	0.09	0.09	0.09	0.09	0.11
	\$/cwt.	D2	0.13	0.07	0.05	0.04	0.04	0.04	0.03	0.03	0.03	0.02	0.05
	\$/cwt.	E2	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	\$/cwt.	F2	-0.02	-0.04	-0.05	-0.01	-0.05	-0.05	-0.04	-0.05	-0.05	-0.05	-0.05
	\$/cwt.	G2	0.24	0.19	0.16	0.14	0.13	0.12	0.12	0.11	0.11	0.11	0.14
	\$/cwt.	I2	-0.14	-0.12	-0.10	-0.09	-0.08	-0.08	-0.08	-0.07	-0.07	-0.07	-0.07
	\$/cwt.	J2	-0.04	-0.03	-0.01	0.00	0.01	0.02	0.02	0.01	0.01	0.00	0.00
	\$/cwt.	K2	0.35	0.22	0.16	0.16	0.11	0.10	0.09	0.09	0.08	0.08	0.14
	\$/cwt.	N2	-0.32	-0.24	-0.23	-0.17	-0.19	-0.18	-0.17	-0.17	-0.17	-0.17	-0.17
Class II	\$/cwt.	Baseline	12.35	13.83	14.48	15.11	15.39	15.49	15.66	15.69	15.67	15.77	14.94
	\$/cwt.	A2	-0.05	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
	\$/cwt.	B2	0.02	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
	\$/cwt.	C2	-0.05	-0.08	-0.09	-0.10	-0.10	-0.11	-0.11	-0.10	-0.10	-0.10	-0.10
	\$/cwt.	D2	0.13	0.15	0.16	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.17
	\$/cwt.	E2	0.02	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.04
	\$/cwt.	F2	0.28	0.30	0.31	0.31	0.32	0.32	0.32	0.32	0.32	0.32	0.31
	\$/cwt.	G2	0.04	0.01	-0.01	-0.01	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
	\$/cwt.	I2	0.04	0.07	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.08	0.08
	\$/cwt.	J2	-0.03	-0.02	-0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00
	\$/cwt.	K2	0.46	0.46	0.46	0.47	0.48	0.48	0.49	0.49	0.49	0.49	0.48
	\$/cwt.	N2	0.06	0.11	0.14	0.14	0.16	0.16	0.16	0.16	0.16	0.15	0.14
Class III	\$/cwt.	Baseline	12.69	13.47	14.20	14.72	15.16	15.40	15.46	15.65	15.68	15.73	14.82
	\$/cwt.	A2	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	\$/cwt.	B2	-0.07	-0.06	-0.05	-0.05	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.05
	\$/cwt.	C2	0.18	0.14	0.12	0.11	0.10	0.10	0.09	0.09	0.09	0.08	0.11
	\$/cwt.	D2	0.13	0.07	0.05	0.04	0.04	0.04	0.03	0.03	0.02	0.02	0.05
	\$/cwt.	E2	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	\$/cwt.	F2	-0.02	-0.04	-0.05	-0.05	-0.05	-0.05	-0.04	-0.05	-0.05	-0.05	-0.04
	\$/cwt.	G2	0.24	0.19	0.16	0.14	0.13	0.12	0.12	0.11	0.11	0.11	0.14
	\$/cwt.	I2	-0.14	-0.12	-0.10	-0.09	-0.08	-0.08	-0.08	-0.07	-0.07	-0.07	-0.09
	\$/cwt.	J2	-0.04	-0.03	-0.01	0.00	0.01	0.02	0.02	0.01	0.01	0.00	0.00
	\$/cwt.	K2	0.35	0.22	0.16	0.13	0.11	0.10	0.09	0.09	0.08	0.08	0.14
	\$/cwt.	N2	-0.32	-0.27	-0.23	-0.21	-0.19	-0.18	-0.17	-0.17	-0.17	-0.17	-0.21

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Table E-6 Continued. Federal Order Milk Prices at 3.5 Percent Butterfat

	Units	Scenario	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	10 Yr. Avg.	
Class IV	\$/cwt.	Baseline	11.65	13.13	13.78	14.41	14.69	14.79	14.96	14.99	14.97	15.07	14.24	
	\$/cwt.	A2	-0.05	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
	\$/cwt.	B2	0.02	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
	\$/cwt.	C2	-0.05	-0.08	-0.09	-0.10	-0.10	-0.11	-0.11	-0.11	-0.10	-0.10	-0.10	-0.09
	\$/cwt.	D2	0.13	0.15	0.16	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.17
	\$/cwt.	E2	0.02	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04
	\$/cwt.	F2	0.28	0.30	0.31	0.31	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.31
	\$/cwt.	G2	0.04	0.01	-0.01	-0.01	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.01
	\$/cwt.	I2	0.04	0.07	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08
	\$/cwt.	J2	-0.03	-0.02	-0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00
	\$/cwt.	K2	0.46	0.46	0.46	0.47	0.48	0.48	0.49	0.49	0.49	0.49	0.49	0.48
	\$/cwt.	N2	0.06	0.11	0.14	0.14	0.16	0.16	0.16	0.16	0.16	0.16	0.15	0.14
Uniform at 3.5% BF	\$/cwt.	Baseline	13.52	14.48	15.19	15.73	16.13	16.33	16.41	16.55	16.56	16.61	15.75	
	\$/cwt.	A2	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	\$/cwt.	B2	-0.05	-0.04	-0.03	-0.03	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.03
	\$/cwt.	C2	0.12	0.09	0.07	0.06	0.06	0.05	0.05	0.05	0.05	0.04	0.04	0.06
	\$/cwt.	D2	0.13	0.09	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07
	\$/cwt.	E2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	\$/cwt.	F2	0.05	0.03	0.03	0.04	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04
	\$/cwt.	G2	0.19	0.15	0.12	0.10	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.11
	\$/cwt.	I2	-0.09	-0.08	-0.06	-0.05	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.05
	\$/cwt.	J2	-0.03	-0.03	-0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00
	\$/cwt.	K2	0.37	0.27	0.22	0.21	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.21
	\$/cwt.	N2	-0.23	-0.17	-0.15	-0.12	-0.11	-0.10	-0.10	-0.10	-0.10	-0.09	-0.09	-0.13

Table E-7. Average Class Butterfat Test

	Units	Scenario	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	10 Yr. Avg.
Class I	percent	Baseline	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05
	percent	A2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	percent	B2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	percent	C2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	percent	D2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	percent	E2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	percent	F2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	percent	G2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	percent	I2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	percent	J2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	percent	K2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	percent	N2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Class II	percent	Baseline	7.81	7.83	7.83	7.84	7.84	7.84	7.83	7.83	7.83	7.82	7.83
	percent	A2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	percent	B2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	percent	C2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	percent	D2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	percent	E2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	percent	F2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	percent	G2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	percent	I2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	percent	J2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	percent	K2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	percent	N2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Class III	percent	Baseline	3.38	3.37	3.37	3.36	3.36	3.35	3.35	3.34	3.34	3.34	3.36
	percent	A2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	percent	B2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	percent	C2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	percent	D2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	percent	E2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	percent	F2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	percent	G2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	percent	I2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	percent	J2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	percent	K2	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	percent	N2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Table E-7 Continued. Average Class Butterfat Test

	Units	Scenario	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	10 Yr. Avg.
Class IV	percent	Baseline	5.29	5.71	5.91	6.00	5.99	5.91	5.85	5.75	5.64	5.56	5.76
	percent	A2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	percent	B2	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	percent	C2	-0.02	-0.02	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
	percent	D2	-0.01	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01
	percent	E2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	percent	F2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00
	percent	G2	-0.02	-0.03	-0.04	-0.05	-0.05	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
	percent	I2	0.01	0.02	0.02	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02
	percent	J2	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	percent	K2	-0.03	-0.06	-0.07	-0.07	-0.06	-0.06	-0.05	-0.05	-0.05	-0.04	-0.05
	percent	N2	0.03	0.04	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05

Table E-8. Federal Order Milk Prices at Test

	Units	Scenario	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	10 Yr. Avg.	
Class I	\$/cwt	Baseline	13.40	13.72	14.25	14.62	14.98	15.20	15.21	15.37	15.38	15.39	14.75	
	\$/cwt	A2	-0.02	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	\$/cwt	B2	-0.08	-0.07	-0.06	-0.06	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.06
	\$/cwt	C2	0.20	0.16	0.15	0.13	0.13	0.12	0.12	0.12	0.12	0.11	0.11	0.13
	\$/cwt	D2	0.16	0.09	0.06	0.04	0.04	0.04	0.03	0.03	0.03	0.02	0.02	0.05
	\$/cwt	E2	-0.02	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.04	-0.04	-0.04	-0.03
	\$/cwt	F2	0.00	-0.03	-0.04	0.00	-0.05	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.03
	\$/cwt	G2	0.27	0.23	0.20	0.17	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.18
	\$/cwt	I2	-0.15	-0.14	-0.12	-0.11	-0.10	-0.10	-0.10	-0.10	-0.09	-0.09	-0.09	-0.11
	\$/cwt	J2	-0.05	-0.04	-0.02	0.00	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.00
	\$/cwt	K2	0.43	0.30	0.22	0.20	0.15	0.14	0.13	0.13	0.13	0.13	0.13	0.20
	\$/cwt	N2	-0.36	-0.29	-0.28	-0.22	-0.24	-0.23	-0.22	-0.22	-0.22	-0.22	-0.22	-0.25
Class II	\$/cwt	Baseline	18.32	21.18	22.44	23.53	24.03	24.20	24.53	24.64	24.67	24.88	23.24	
	\$/cwt	A2	-0.02	-0.03	-0.03	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.03
	\$/cwt	B2	0.04	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
	\$/cwt	C2	-0.11	-0.15	-0.16	-0.16	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.16
	\$/cwt	D2	0.06	0.09	0.12	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.15
	\$/cwt	E2	0.05	0.07	0.09	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.10
	\$/cwt	F2	0.19	0.24	0.27	0.28	0.29	0.29	0.30	0.30	0.29	0.29	0.29	0.27
	\$/cwt	G2	-0.06	-0.11	-0.12	-0.11	-0.11	-0.11	-0.11	-0.11	-0.12	-0.12	-0.12	-0.11
	\$/cwt	I2	0.08	0.12	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.13
	\$/cwt	J2	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
	\$/cwt	K2	0.19	0.21	0.27	0.32	0.34	0.34	0.35	0.34	0.33	0.34	0.34	0.30
	\$/cwt	N2	0.17	0.25	0.28	0.27	0.28	0.29	0.28	0.29	0.29	0.29	0.29	0.27
Class III	\$/cwt	Baseline	12.53	13.26	13.96	14.45	14.87	15.10	15.15	15.32	15.35	15.39	14.54	
	\$/cwt	A2	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	\$/cwt	B2	-0.07	-0.06	-0.05	-0.05	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.05
	\$/cwt	C2	0.18	0.14	0.12	0.11	0.11	0.10	0.09	0.09	0.09	0.09	0.09	0.11
	\$/cwt	D2	0.14	0.08	0.06	0.05	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.05
	\$/cwt	E2	-0.01	-0.01	-0.02	-0.02	-0.02	-0.02	-0.02	-0.01	-0.02	-0.02	-0.02	-0.01
	\$/cwt	F2	-0.02	-0.04	-0.04	-0.05	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
	\$/cwt	G2	0.24	0.20	0.16	0.15	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.15
	\$/cwt	I2	-0.14	-0.12	-0.10	-0.09	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.09
	\$/cwt	J2	-0.04	-0.03	-0.01	0.00	0.01	0.02	0.02	0.02	0.01	0.01	0.01	0.00
	\$/cwt	K2	0.36	0.23	0.17	0.14	0.12	0.12	0.11	0.10	0.10	0.10	0.10	0.16
	\$/cwt	N2	-0.33	-0.28	-0.24	-0.22	-0.20	-0.19	-0.18	-0.18	-0.18	-0.18	-0.18	-0.21

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Table E-8 Continued. Federal Order Milk Prices at Test

	Units	Scenario	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	10 Yr. Avg.	
Class IV	\$/cwt	Baseline	14.13	16.88	18.20	19.26	19.64	19.63	19.78	19.63	19.42	19.41	18.60	
	\$/cwt	A2	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	
	\$/cwt	B2	0.04	0.07	0.08	0.08	0.09	0.09	0.08	0.08	0.08	0.08	0.08	
	\$/cwt	C2	-0.10	-0.15	-0.18	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.19	-0.19	-0.18
	\$/cwt	D2	0.09	0.09	0.10	0.12	0.13	0.13	0.14	0.15	0.15	0.15	0.12	
	\$/cwt	E2	0.03	0.06	0.07	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.08
	\$/cwt	F2	0.24	0.26	0.28	0.29	0.31	0.31	0.32	0.32	0.32	0.32	0.32	0.30
	\$/cwt	G2	-0.03	-0.11	-0.15	-0.16	-0.16	-0.16	-0.15	-0.15	-0.15	-0.15	-0.14	-0.14
	\$/cwt	I2	0.08	0.13	0.15	0.16	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.15
	\$/cwt	J2	-0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00
	\$/cwt	K2	0.30	0.24	0.23	0.25	0.27	0.28	0.30	0.31	0.32	0.33	0.33	0.28
	\$/cwt	N2	0.15	0.25	0.32	0.33	0.35	0.35	0.35	0.34	0.33	0.33	0.33	0.31
Uniform	\$/cwt	Baseline	13.80	14.84	15.58	16.15	16.56	16.77	16.86	17.01	17.02	17.09	16.17	
	\$/cwt	A2	-0.02	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	\$/cwt	B2	-0.05	-0.04	-0.03	-0.03	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.03
	\$/cwt	C2	0.12	0.08	0.07	0.06	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.06
	\$/cwt	D2	0.13	0.09	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07
	\$/cwt	E2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	\$/cwt	F2	0.04	0.03	0.03	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
	\$/cwt	G2	0.18	0.14	0.11	0.10	0.09	0.08	0.08	0.08	0.08	0.07	0.07	0.10
	\$/cwt	I2	-0.09	-0.07	-0.06	-0.05	-0.04	-0.04	-0.04	-0.04	-0.04	-0.03	-0.03	-0.05
	\$/cwt	J2	-0.03	-0.03	-0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00
	\$/cwt	K2	0.36	0.25	0.21	0.20	0.18	0.17	0.17	0.16	0.16	0.16	0.16	0.20
	\$/cwt	N2	-0.22	-0.17	-0.14	-0.11	-0.11	-0.10	-0.09	-0.09	-0.09	-0.09	-0.09	-0.12

Table E-9. Federal Order Marketings

	Units	Scenario	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	10 Yr. Avg.		
Class I	mil. pounds	Baseline	44,836	45,163	44,973	44,942	44,912	45,021	44,913	44,920	44,947	45,091	44,972		
	mil. pounds	A2	3	1	1	0	0	0	0	0	0	0	0	1	
	mil. pounds	B2	17	15	12	11	10	9	9	9	9	9	9	11	
	mil. pounds	C2	-44	-33	-28	-25	-24	-23	-21	-21	-21	-20	-20	-26	
	mil. pounds	D2	-33	-18	-12	-9	-8	-8	-6	-6	-6	-5	-5	-11	
	mil. pounds	E2	3	4	4	4	4	4	4	4	4	4	4	4	
	mil. pounds	F2	4	9	10	1	11	11	10	10	10	10	10	9	
	mil. pounds	G2	-58	-46	-38	-33	-29	-27	-27	-27	-26	-26	-26	-26	-34
	mil. pounds	I2	34	28	24	21	19	18	18	18	17	17	17	21	
	mil. pounds	J2	9	7	2	0	-3	-3	-4	-3	-2	-1	-1	0	
	mil. pounds	K2	-86	-54	-38	-37	-25	-24	-22	-21	-20	-19	-19	-35	
	mil. pounds	N2	79	57	55	40	44	41	40	40	39	39	39	48	
Class II	mil. pounds	Baseline	16,928	16,717	16,726	16,823	17,001	17,280	17,462	17,740	18,038	18,360	17,308		
	mil. pounds	A2	4	5	6	6	7	7	7	7	7	8	6		
	mil. pounds	B2	-7	-11	-12	-13	-13	-14	-14	-15	-15	-15	-15	-13	
	mil. pounds	C2	17	24	28	29	31	33	34	35	36	36	36	30	
	mil. pounds	D2	-10	-16	-21	-27	-30	-31	-33	-34	-35	-35	-37	-27	
	mil. pounds	E2	-8	-12	-15	-18	-19	-20	-21	-22	-22	-23	-23	-18	
	mil. pounds	F2	-31	-40	-47	-50	-54	-57	-59	-60	-61	-61	-62	-52	
	mil. pounds	G2	10	18	20	20	21	22	23	24	25	25	25	21	
	mil. pounds	I2	-14	-20	-23	-24	-26	-27	-27	-28	-29	-30	-30	-25	
	mil. pounds	J2	0	-1	-1	-1	-1	-1	-1	0	0	0	0	-1	
	mil. pounds	K2	-32	-36	-46	-56	-61	-64	-68	-69	-69	-69	-72	-57	
	mil. pounds	N2	-29	-41	-48	-49	-53	-55	-56	-58	-61	-61	-62	-51	
Class III	mil. pounds	Baseline	49,189	50,363	51,173	51,803	52,387	53,115	53,665	54,245	54,867	55,654	52,646		
	mil. pounds	A2	-2	-3	-4	-5	-6	-6	-7	-7	-8	-8	-8	-6	
	mil. pounds	B2	-3	-5	-8	-11	-13	-15	-17	-18	-19	-19	-19	-13	
	mil. pounds	C2	6	11	18	24	30	35	39	42	43	45	45	29	
	mil. pounds	D2	12	17	23	29	35	40	44	47	49	50	50	35	
	mil. pounds	E2	2	2	1	1	1	1	1	1	1	1	1	1	
	mil. pounds	F2	10	10	11	14	15	17	18	19	20	21	21	15	
	mil. pounds	G2	13	21	30	41	50	58	64	68	71	73	73	49	
	mil. pounds	I2	-5	-9	-15	-20	-26	-29	-33	-35	-36	-38	-38	-25	
	mil. pounds	J2	-3	-4	-5	-5	-4	-3	-2	-1	0	1	1	-3	
	mil. pounds	K2	35	48	64	82	98	112	122	130	136	140	140	97	
	mil. pounds	N2	-13	-22	-36	-49	-61	-71	-79	-84	-88	-91	-91	-59	

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Table E-9 Continued. Federal Order Marketings

	Units	Scenario	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	10 Yr. Avg.	
Class IV	mil. pounds	Baseline	12,990	11,665	10,811	10,488	10,530	10,802	10,994	11,377	11,792	12,173	11,362	
	mil. pounds	A2	-7	-10	-11	-12	-12	-13	-13	-13	-13	-14	-14	-12
	mil. pounds	B2	-17	-25	-29	-31	-32	-33	-34	-35	-36	-37	-37	-31
	mil. pounds	C2	43	57	68	73	76	79	80	82	84	86	86	73
	mil. pounds	D2	46	61	72	78	80	82	83	84	84	86	86	75
	mil. pounds	E2	1	1	1	1	1	0	0	0	0	0	0	0
	mil. pounds	F2	16	22	25	34	28	27	28	28	28	27	28	26
	mil. pounds	G2	66	93	110	119	122	125	128	131	134	134	138	116
	mil. pounds	I2	-34	-48	-57	-61	-63	-64	-66	-68	-68	-70	-72	-60
	mil. pounds	J2	-12	-17	-15	-12	-5	-1	3	6	7	7	7	-4
	mil. pounds	K2	129	175	204	225	225	228	231	235	237	244	244	213
	mil. pounds	N2	-82	-110	-136	-141	-150	-154	-158	-163	-167	-167	-173	-143
	Total	mil. pounds	Baseline	123,943	123,909	123,683	124,057	124,830	126,217	127,035	128,282	129,644	131,278	126,288
mil. pounds		A2	-2	-6	-9	-10	-11	-12	-13	-13	-14	-14	-14	-10
mil. pounds		B2	-10	-25	-36	-44	-49	-53	-56	-58	-61	-63	-63	-45
mil. pounds		C2	23	60	85	102	114	124	132	138	143	147	147	107
mil. pounds		D2	16	44	60	70	77	83	87	90	93	95	95	72
mil. pounds		E2	-3	-6	-9	-11	-13	-15	-16	-17	-17	-18	-18	-13
mil. pounds		F2	-2	1	0	-1	0	-2	-3	-3	-3	-3	-3	-2
mil. pounds		G2	30	85	123	147	164	177	187	196	204	211	211	153
mil. pounds		I2	-19	-50	-71	-85	-95	-103	-108	-113	-113	-118	-122	-88
mil. pounds		J2	-5	-15	-19	-18	-14	-8	-3	1	5	6	6	-7
mil. pounds		K2	46	133	183	214	236	252	264	275	284	293	293	218
mil. pounds		N2	-44	-116	-165	-198	-220	-239	-253	-266	-277	-287	-287	-207



Table E-10. Federal Order Cash Receipts

	Units	Scenario	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	10 Yr. Avg.		
Class I	mil. \$	Baseline	6,010	6,195	6,407	6,569	6,728	6,843	6,831	6,902	6,912	6,939	6,634		
	mil. \$	A2	-9	-6	-4	-3	-3	-2	-2	-2	-2	-2	-2	-4	
	mil. \$	B2	-33	-30	-26	-24	-22	-21	-21	-21	-21	-21	-21	-24	
	mil. \$	C2	84	69	61	55	53	52	49	48	48	48	47	57	
	mil. \$	D2	66	38	26	18	15	15	11	11	11	10	9	22	
	mil. \$	E2	-8	-12	-14	-15	-15	-15	-15	-15	-15	-15	-15	-15	-14
	mil. \$	F2	2	-11	-16	0	-19	-18	-18	-18	-18	-17	-18	-18	-13
	mil. \$	G2	114	98	83	73	67	64	63	62	62	63	63	75	
	mil. \$	I2	-65	-59	-51	-46	-43	-41	-40	-40	-40	-40	-40	-40	-46
	mil. \$	J2	-20	-16	-7	-1	5	7	7	7	7	6	3	-1	
	mil. \$	K2	183	126	93	85	63	60	56	55	55	54	83		
	mil. \$	N2	-153	-122	-120	-91	-99	-95	-93	-92	-92	-93	-105		
Class II	mil. \$	Baseline	3,101	3,541	3,753	3,959	4,085	4,182	4,283	4,372	4,449	4,568	4,029		
	mil. \$	A2	-3	-4	-4	-5	-5	-5	-5	-5	-5	-5	-5	-4	
	mil. \$	B2	6	8	9	9	9	9	9	9	9	9	9	9	
	mil. \$	C2	-15	-19	-21	-20	-21	-21	-21	-21	-22	-22	-22	-20	
	mil. \$	D2	8	12	16	20	21	21	22	22	22	22	23	19	
	mil. \$	E2	7	10	12	13	13	14	14	14	14	14	15	12	
	mil. \$	F2	26	31	35	35	37	37	37	37	37	37	38	35	
	mil. \$	G2	-8	-14	-15	-14	-14	-14	-14	-14	-15	-16	-16	-14	
	mil. \$	I2	12	16	17	17	17	17	17	17	18	18	18	17	
	mil. \$	J2	0	1	1	1	1	1	0	0	0	0	-1	0	
	mil. \$	K2	26	28	34	41	43	43	45	44	42	45	39		
	mil. \$	N2	24	32	36	33	35	36	36	36	36	38	34		
Class III	mil. \$	Baseline	6,161	6,677	7,142	7,486	7,789	8,021	8,131	8,313	8,420	8,564	7,670		
	mil. \$	A2	-6	-3	-2	-2	-1	-1	-1	-1	-1	-1	-1	-2	
	mil. \$	B2	-36	-32	-28	-26	-25	-24	-24	-24	-24	-25	-25	-27	
	mil. \$	C2	91	72	66	61	60	60	57	57	57	56	64		
	mil. \$	D2	68	41	33	28	27	27	24	24	23	22	32		
	mil. \$	E2	-5	-7	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	
	mil. \$	F2	-8	-17	-20	-21	-21	-20	-19	-20	-20	-20	-20	-19	
	mil. \$	G2	119	101	88	82	77	75	75	75	76	77	85		
	mil. \$	I2	-69	-61	-55	-51	-48	-47	-47	-47	-47	-48	-48	-52	
	mil. \$	J2	-19	-15	-6	-1	6	8	8	7	6	3	0		
	mil. \$	K2	181	123	98	85	80	78	77	76	75	76	95		
	mil. \$	N2	-162	-143	-127	-119	-112	-109	-109	-109	-109	-111	-121		

Table continued on next page

Table E-10 Continued. Federal Order Cash Receipts

	Units	Scenario	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	10 Yr. Avg.
Class IV	mil. \$	Baseline	1,835	1,970	1,967	2,020	2,068	2,120	2,174	2,234	2,290	2,362	2,104
	mil. \$	A2	-6	-6	-6	-6	-7	-7	-7	-7	-8	-8	-7
	mil. \$	B2	3	3	3	3	3	3	3	3	3	3	3
	mil. \$	C2	-7	-8	-8	-7	-7	-7	-6	-6	-7	-6	-7
	mil. \$	D2	18	21	24	28	29	30	32	33	34	36	28
	mil. \$	E2	4	7	8	9	9	10	10	10	10	11	9
	mil. \$	F2	33	34	35	37	38	39	40	42	43	45	39
	mil. \$	G2	5	3	4	6	7	7	8	9	9	10	7
	mil. \$	I2	5	7	6	5	5	5	5	5	5	5	5
	mil. \$	J2	-3	-3	-2	-1	0	1	1	1	1	1	0
	mil. \$	K2	58	58	63	70	73	76	80	82	84	89	73
	mil. \$	N2	8	11	10	7	7	7	6	6	6	6	7
Total	mil. \$	Baseline	17,107	18,383	19,268	20,034	20,671	21,167	21,420	21,820	22,071	22,434	20,438
	mil. \$	A2	-24	-19	-16	-16	-15	-15	-16	-16	-16	-17	-17
	mil. \$	B2	-60	-50	-42	-38	-35	-34	-34	-33	-33	-34	-39
	mil. \$	C2	154	113	99	89	85	84	78	78	75	74	93
	mil. \$	D2	160	112	99	94	92	93	90	90	88	90	101
	mil. \$	E2	-3	-3	-2	-1	0	0	1	1	1	2	0
	mil. \$	F2	54	38	34	50	35	37	41	42	43	45	42
	mil. \$	G2	230	188	160	147	137	132	132	131	131	134	152
	mil. \$	I2	-117	-97	-83	-74	-68	-66	-65	-65	-64	-65	-76
	mil. \$	J2	-42	-33	-14	-3	12	16	17	15	13	7	-1
	mil. \$	K2	447	335	288	281	259	257	258	258	256	263	290
	mil. \$	N2	-282	-222	-201	-169	-169	-161	-160	-158	-158	-160	-184

Table E-11. U.S. Marketings

	Units	Scenario	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	10 Yr. Avg.	
Class I	mil. pounds	Baseline	54,412	54,810	54,579	54,542	54,505	54,637	54,506	54,514	54,548	54,722	54,577	
	mil. pounds	A2	4	2	1	0	0	0	0	0	0	0	0	1
	mil. pounds	B2	21	18	15	13	12	11	11	11	11	11	11	13
	mil. pounds	C2	-34	-40	-34	-30	-29	-28	-26	-25	-25	-25	-24	-31
	mil. pounds	D2	-40	-21	-15	-11	-10	-9	-7	-7	-7	-6	-6	-13
	mil. pounds	E2	3	5	5	5	5	5	5	5	5	5	5	5
	mil. pounds	F2	5	11	13	1	13	13	12	12	12	12	12	11
	mil. pounds	G2	-70	-56	-46	-40	-36	-33	-33	-32	-32	-31	-32	-41
	mil. pounds	I2	41	34	29	25	23	22	21	21	21	21	21	26
	mil. pounds	J2	11	8	3	0	-4	-4	-4	-4	-4	-3	-1	0
	mil. pounds	K2	-105	-65	-46	-45	-31	-29	-27	-27	-25	-24	-24	-42
	mil. pounds	N2	96	70	67	48	53	50	49	49	48	47	48	58
Class II	mil. pounds	Baseline	19,798	19,553	19,563	19,676	19,884	20,210	20,424	20,749	21,097	21,473	20,243	
	mil. pounds	A2	5	6	7	8	8	8	9	9	9	9	8	
	mil. pounds	B2	-8	-12	-14	-15	-15	-16	-17	-17	-17	-18	-18	-15
	mil. pounds	C2	20	29	33	34	36	39	39	41	42	42	42	35
	mil. pounds	D2	-12	-18	-25	-32	-35	-36	-39	-40	-40	-40	-43	-32
	mil. pounds	E2	-9	-14	-18	-21	-22	-24	-25	-26	-26	-26	-27	-21
	mil. pounds	F2	-37	-47	-55	-59	-64	-66	-69	-70	-71	-71	-73	-61
	mil. pounds	G2	12	21	24	23	25	26	27	28	29	29	30	24
	mil. pounds	I2	-16	-24	-27	-28	-30	-31	-32	-32	-33	-34	-35	-29
	mil. pounds	J2	0	-1	-1	-1	-2	-1	-1	-1	0	0	0	-1
	mil. pounds	K2	-37	-42	-54	-66	-72	-75	-79	-79	-81	-80	-84	-67
	mil. pounds	N2	-34	-48	-56	-57	-62	-64	-66	-66	-68	-71	-72	-60
Class III	mil. pounds	Baseline	89,598	91,736	93,211	94,359	95,423	96,749	97,751	98,808	99,939	101,373	95,895	
	mil. pounds	A2	-4	-5	-7	-8	-10	-12	-13	-14	-14	-14	-15	-10
	mil. pounds	B2	-5	-9	-14	-19	-24	-28	-30	-32	-34	-34	-35	-23
	mil. pounds	C2	11	20	32	44	55	64	71	76	79	81	81	53
	mil. pounds	D2	22	31	41	53	64	73	80	85	89	92	92	63
	mil. pounds	E2	3	3	2	2	2	2	2	2	3	3	3	2
	mil. pounds	F2	18	18	20	25	28	31	33	35	36	36	37	28
	mil. pounds	G2	23	37	55	74	91	105	116	124	129	134	134	89
	mil. pounds	I2	-9	-17	-27	-37	-46	-54	-59	-63	-66	-66	-69	-45
	mil. pounds	J2	-5	-7	-9	-9	-8	-6	-4	-2	0	1	1	-5
	mil. pounds	K2	65	88	116	149	179	204	223	237	247	255	255	176
	mil. pounds	N2	-23	-41	-65	-88	-111	-129	-144	-153	-161	-167	-167	-108

Table continued on next page

Table E-11 Continued. U.S. Marketings

	Units	Scenario	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	10 Yr. Avg.
Class IV	mil. pounds	Baseline	18,964	17,029	15,782	15,311	15,373	15,769	16,050	16,608	17,215	17,771	16,587
	mil. pounds	A2	-10	-14	-17	-18	-18	-18	-19	-19	-19	-20	-17
	mil. pounds	B2	-25	-36	-42	-46	-47	-48	-50	-51	-52	-54	-45
	mil. pounds	C2	63	83	99	107	111	116	117	120	122	125	106
	mil. pounds	D2	67	89	104	113	117	119	120	122	123	126	110
	mil. pounds	E2	1	1	1	2	1	1	0	0	0	-1	1
	mil. pounds	F2	23	33	37	50	41	40	40	40	40	42	39
	mil. pounds	G2	96	136	160	174	178	182	186	191	195	202	170
	mil. pounds	I2	-49	-70	-83	-89	-92	-94	-96	-99	-101	-105	-88
	mil. pounds	J2	-18	-25	-22	-17	-8	-1	5	8	10	10	-6
	mil. pounds	K2	188	256	298	329	329	333	338	343	346	357	312
	mil. pounds	N2	-119	-161	-198	-205	-220	-225	-231	-237	-244	-253	-209
	Total Class Use	mil. pounds	Baseline	182,773	183,128	183,135	183,888	185,184	187,364	188,731	190,679	192,799	195,340
mil. pounds		A2	-6	-12	-16	-18	-20	-22	-23	-24	-25	-26	-19
mil. pounds		B2	-17	-39	-55	-67	-75	-81	-86	-90	-93	-96	-70
mil. pounds		C2	41	92	129	155	174	190	202	211	218	225	164
mil. pounds		D2	38	80	106	123	136	147	154	160	165	169	128
mil. pounds		E2	-2	-6	-9	-12	-14	-16	-17	-19	-20	-21	-14
mil. pounds		F2	9	15	15	18	18	17	17	17	17	18	16
mil. pounds		G2	60	138	193	231	259	280	296	311	323	334	243
mil. pounds		I2	-33	-77	-108	-130	-145	-157	-166	-174	-181	-188	-136
mil. pounds		J2	-11	-25	-30	-28	-21	-12	-4	3	7	10	-11
mil. pounds		K2	111	236	313	367	405	433	455	474	489	504	379
mil. pounds		N2	-80	-180	-253	-302	-339	-369	-392	-411	-428	-444	-320

<sup>1</sup> Total Class Use differs from U.S. Marketings due to the presence of imported dairy ingredients.

Table E-12. Domestic Commercial Disappearance

	Units	Scenario	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	10 Yr. Avg.	
American Cheese	mil. pounds	Baseline	3,958	4,011	4,043	4,064	4,089	4,131	4,159	4,195	4,236	4,292	4,118	
	mil. pounds	A2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
	mil. pounds	B2	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
	mil. pounds	C2	1	2	2	3	3	3	3	3	3	3	3	3
	mil. pounds	D2	3	4	4	5	5	5	5	5	5	5	5	5
	mil. pounds	E2	0	1	1	1	1	1	1	1	1	1	1	1
	mil. pounds	F2	2	3	3	3	3	3	3	3	3	3	3	3
	mil. pounds	G2	2	4	5	5	5	6	6	6	6	6	6	5
	mil. pounds	I2	-1	-1	-2	-2	-2	-2	-2	-2	-2	-3	-3	-2
	mil. pounds	J2	-1	-1	-1	-1	0	0	0	0	0	0	0	0
	mil. pounds	K2	7	11	12	13	13	14	14	14	14	14	14	13
	mil. pounds	N2	-2	-4	-5	-5	-6	-6	-6	-6	-6	-6	-6	-5
Other Cheese	mil. pounds	Baseline	5,759	5,884	5,970	6,044	6,114	6,201	6,267	6,335	6,407	6,495	6,148	
	mil. pounds	A2	0	-1	-1	-1	-1	-1	-1	-2	-2	-2	-1	
	mil. pounds	B2	0	-1	-1	-2	-2	-2	-2	-2	-3	-3	-2	
	mil. pounds	C2	1	2	3	4	4	5	5	6	6	6	4	
	mil. pounds	D2	2	4	5	6	7	8	9	9	10	10	7	
	mil. pounds	E2	0	1	1	1	1	1	1	1	1	1	1	
	mil. pounds	F2	2	3	4	4	5	5	5	6	6	6	5	
	mil. pounds	G2	2	4	6	7	8	9	10	11	11	12	8	
	mil. pounds	I2	-1	-1	-2	-3	-4	-4	-4	-5	-5	-5	-3	
	mil. pounds	J2	0	-1	-1	-1	-1	-1	-1	0	0	0	-1	
	mil. pounds	K2	6	11	15	18	21	23	25	26	27	28	20	
	mil. pounds	N2	-2	-4	-6	-7	-9	-10	-11	-12	-12	-13	-9	
Butter	mil. pounds	Baseline	1,479	1,441	1,398	1,392	1,401	1,422	1,439	1,462	1,487	1,515	1,444	
	mil. pounds	A2	0	0	0	0	0	0	0	0	0	0	0	
	mil. pounds	B2	0	0	0	0	0	0	0	0	0	0	0	
	mil. pounds	C2	0	0	0	0	0	1	1	1	1	1	0	
	mil. pounds	D2	1	1	1	1	1	1	1	1	1	1	1	
	mil. pounds	E2	0	0	0	0	0	0	0	0	0	0	0	
	mil. pounds	F2	1	1	1	1	1	1	1	1	1	1	1	
	mil. pounds	G2	1	1	1	1	1	1	1	1	1	1	1	
	mil. pounds	I2	0	0	0	0	0	0	0	0	0	0	0	
	mil. pounds	J2	0	0	0	0	0	0	0	0	0	0	0	
	mil. pounds	K2	3	3	4	3	3	3	3	3	3	3	3	
	mil. pounds	N2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	

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Table E-12 Continued. Domestic Commercial Disappearance

	Units	Scenario	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	10 Yr. Avg.	
Nonfat dry milk	mil. pounds	Baseline	1,004	1,001	1,010	1,015	1,032	1,061	1,082	1,116	1,151	1,187	1,066	
	mil. pounds	A2	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
	mil. pounds	B2	-1	-1	-1	-2	-2	-2	-2	-2	-2	-2	-2	-2
	mil. pounds	C2	1	2	3	4	5	5	5	5	5	5	5	4
	mil. pounds	D2	1	2	3	4	5	5	5	5	5	5	5	4
	mil. pounds	E2	0	0	0	0	0	0	0	0	0	0	0	0
	mil. pounds	F2	0	1	1	2	2	2	2	1	1	1	1	1
	mil. pounds	G2	2	3	5	7	7	7	8	7	7	7	7	6
	mil. pounds	I2	-1	-2	-3	-4	-4	-4	-4	-4	-4	-4	-4	-3
	mil. pounds	J2	0	-1	-1	-1	0	0	0	0	0	0	0	0
	mil. pounds	K2	4	6	10	13	13	13	13	13	13	13	13	11
	mil. pounds	N2	-2	-4	-7	-8	-9	-10	-10	-10	-10	-9	-9	-8
	Dry whey	mil. pounds	Baseline	582	567	552	536	521	509	494	480	468	458	517
mil. pounds		A2	0	0	0	0	0	0	0	0	0	0	0	0
mil. pounds		B2	0	0	0	0	0	0	0	0	0	0	0	0
mil. pounds		C2	0	0	0	0	0	0	0	0	0	0	0	0
mil. pounds		D2	0	0	1	1	1	1	1	1	1	1	1	1
mil. pounds		E2	0	0	0	0	0	0	0	0	0	0	0	0
mil. pounds		F2	0	0	0	0	0	0	0	0	0	0	0	0
mil. pounds		G2	0	0	1	1	1	1	1	1	1	1	1	1
mil. pounds		I2	0	0	0	0	0	0	0	0	0	0	0	0
mil. pounds		J2	0	0	0	0	0	0	0	0	0	0	0	0
mil. pounds		K2	1	1	2	2	2	2	2	2	2	2	2	2
mil. pounds		N2	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1

Table A-13. Milk Income Loss Contract (MILC) Payments and Net Government Removals of Nonfat Dry Milk Through the Milk Price Support Program (MPSP)

	Units	Scenario	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	10 Yr. Avg.
Class I Price at Boston (3.5 percent butterfat)	\$/cwt.	Baseline	15.40										
	\$/cwt.	A2	-0.01										
	\$/cwt.	B2	-0.07										
	\$/cwt.	C2	0.18										
	\$/cwt.	D2	0.13										
	\$/cwt.	E2	-0.01										
	\$/cwt.	F2	-0.02										
	\$/cwt.	G2	0.24										
	\$/cwt.	I2	-0.14										
	\$/cwt.	J2	-0.04										
	\$/cwt.	K2	0.35										
	\$/cwt.	N2	-0.32										
MILC Payments	mil. \$	Baseline	323										
	mil. \$	A2	2										
	mil. \$	B2	11										
	mil. \$	C2	-37										
	mil. \$	D2	-30										
	mil. \$	E2	2										
	mil. \$	F2	3										
	mil. \$	G2	-44										
	mil. \$	I2	22										
	mil. \$	J2	6										
	mil. \$	K2	-59										
	mil. \$	N2	50										
NDM Net Govt. Removals <sup>1</sup>	mil. pounds	Baseline	0	7	4	2	1	1	1	1	1	1	2
	mil. pounds	A2	0	0	0	0	0	0	0	0	0	0	0
	mil. pounds	B2	0	0	0	0	0	0	0	0	0	0	0
	mil. pounds	C2	0	1	1	0	0	0	0	0	0	0	0
	mil. pounds	D2	0	1	1	0	0	0	0	0	0	0	0
	mil. pounds	E2	0	0	0	0	0	0	0	0	0	0	0
	mil. pounds	F2	0	0	0	0	0	0	0	0	0	0	0
	mil. pounds	G2	0	1	1	1	0	0	0	0	0	0	0
	mil. pounds	I2	0	0	0	0	0	0	0	0	0	0	0
	mil. pounds	J2	0	0	0	0	0	0	0	0	0	0	0
	mil. pounds	K2	0	2	2	1	1	1	1	1	1	1	1
	mil. pounds	N2	0	-1	-1	0	0	0	0	0	0	0	0

Table continued on next page

Table A-13 Continued. Milk Income Loss Contract (MILC) Payments and Net Government Removals of Nonfat Dry Milk Through the Milk Price Support Program (MPSP)

	Units	Scenario	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	10 Yr. Avg.
MPSP Outlays <sup>2</sup>	mil. \$	A2	0	0	0	0	0	0	0	0	0	0	0
	mil. \$	B2	0	0	0	0	0	0	0	0	0	0	0
	mil. \$	C2	0	0	0	0	0	0	0	0	0	0	0
	mil. \$	D2	0	0	0	0	0	0	0	0	0	0	0
	mil. \$	E2	0	0	0	0	0	0	0	0	0	0	0
	mil. \$	F2	0	0	0	0	0	0	0	0	0	0	0
	mil. \$	G2	0	1	1	0	0	0	0	0	0	0	0
	mil. \$	I2	0	0	0	0	0	0	0	0	0	0	0
	mil. \$	J2	0	0	0	0	0	0	0	0	0	0	0
	mil. \$	K2	0	1	1	1	1	1	0	1	1	1	1
	mil. \$	N2	0	-1	-1	0	0	0	0	0	0	0	0
Total Govt. Outlays	mil. \$	A2	2	0	0	0	0	0	0	0	0	0	0
	mil. \$	B2	11	0	0	0	0	0	0	0	0	0	1
	mil. \$	C2	-37	0	0	0	0	0	0	0	0	0	-3
	mil. \$	D2	-30	0	0	0	0	0	0	0	0	0	-3
	mil. \$	E2	2	0	0	0	0	0	0	0	0	0	0
	mil. \$	F2	3	0	0	0	0	0	0	0	0	0	0
	mil. \$	G2	-44	1	1	0	0	0	0	0	0	0	-4
	mil. \$	I2	22	0	0	0	0	0	0	0	0	0	2
	mil. \$	J2	6	0	0	0	0	0	0	0	0	0	1
	mil. \$	K2	-59	1	1	1	1	1	0	1	1	1	-5
	mil. \$	N2	50	-1	-1	0	0	0	0	0	0	0	5

<sup>1</sup> Net government removals equals support price purchases plus Dairy Export Incentive Program (DEIP) removals minus unrestricted sales.

<sup>2</sup> MPSP outlays are not projected in the model. The change is computed by multiplying NDM net removal quantities by the NDM support price of \$0.80. No attempt is made to estimate changes in storage, handling, transportation, processing, and packaging.