
Methodology: Monthly Class and Component Prices

Data: The Class and Component Prices are calculated using the most recent four or five weeks (since the last monthly Announcement of Class and Component Prices) from the latest National Dairy Products Sales Report (NDPSR).

Reliability: NDPSR are subject to revision for four weeks following the initial weekly report. For enforcement purposes, the information in the NDPSR is subject to verification for up to two years from the time of submission. The AMS audit staff periodically reviews a company's sales records to ensure accurate reports during onsite verifications. Note that the monthly Announcements of Class and Component Prices are not subject to revision.

Terms and Definitions: Announced milk prices are per 100 pounds or cwt, rounded to the nearest cent. Component prices are per pound, rounded to nearest one-hundredth cent. Announced product prices and pricing factors are per pound, rounded to the nearest one-hundredth cent. The somatic cell adjustment rate is for every 1,000 cells, rounded to the nearest one thousandth cent.

The NDPSR provides current wholesale market prices for basic dairy commodities. These commodity prices are used in the following formulas to calculate the USDA's Class and Component Prices used in the Federal Milk Marketing Order Program.

- Commodity Prices (Butter, Nonfat Dry Milk, Cheddar Cheese, and Dry Whey)
 - Commodity prices are calculated on the NDPSR ¹.
 - The prices are weighted averages for the previous four or five weeks (depending on date of last publication), weighted by sales volume in pounds.
 - Cheddar cheese in 500-pound barrels is adjusted to 38 percent moisture content.
 - For more information, see the Price Formulas publication ².
- Butterfat Price = (Butter Price – 0.1715) x 1.211
- Nonfat Solids Price = (NFDM Price – 0.1678) x 0.99
- Protein Price = ((Cheese Price – 0.2003) x 1.383) + (((Cheese Price – 0.2003) x 1.572) – Butterfat Price x 0.9) x 1.17)
- Other Solids Price = (Dry Whey Price-0.1991) x 1.03
- Somatic Cell Adjustment Rate = Cheese Price x 0.0005
- Class II Price = (Class II Skim Milk Price x 0.965)+(Class II Butterfat Price x 3.5)
 - Class II Skim Milk Price = See the Announcement of Advanced Prices and Pricing Factors for the applicable month.
 - Class II Butterfat Price = Butterfat Price+0.007
- Class III Price = (Class III Skim Milk Price x 0.965)+(Butterfat Price x 3.5)
 - Class III Skim Milk Price = (Protein Price x 3.1)+(Other Solids Price x 5.9)
- Class IV Price = (Class IV Skim Milk Price x 0.965)+(Butterfat Price x 3.5)
 - Class IV Skim Milk Price = Nonfat Solids Price x 9

¹ <https://www.ams.usda.gov/mnreports/dywdairyproductssales.pdf>

² <https://www.ams.usda.gov/resources/price-formulas>



**United States
Department of
Agriculture**

National Dairy Products Sales Report

United States Department of Agriculture

Agricultural Marketing Service

Dairy Program

Market Information Branch

NDPSR-0454

December 30, 2020

National Dairy Products Sales Report Highlights

Butter prices received for 25-kilogram and 68-pound boxes meeting United States Department of Agriculture (USDA) Grade AA standards averaged \$1.48 per pound for the week ending December 26, 2020. The United States (US) price per pound increased 0.6 cents from the previous week.

Cheddar Cheese prices received for 40-pound blocks averaged \$1.66 per pound for the week ending December 26, 2020. The US price per pound decreased 3.2 cents from the previous week. The prices received for 500-pound barrels adjusted to 38 percent moisture averaged \$1.48 per pound. The US price per pound increased 2.0 cents from the previous week.

Dry Whey prices received for bag, tote, and tanker sales meeting USDA Extra Grade standards averaged 42.0 cents per pound for the week ending December 26, 2020. The US price per pound decreased 0.7 cents from the previous week.

Nonfat Dry Milk prices received for bag, tote, and tanker sales meeting USDA Extra Grade or United States Public Health Service (USPHS) Grade A standards averaged \$1.11 per pound for the week ending December 26, 2020. The US price per pound increased 0.4 cents from the previous week.

National Dairy Products Sales Report for Weeks Ending: 11/28/2020 - 12/26/2020

Butter Prices and Sales

United States	28-Nov	5-Dec	12-Dec	19-Dec	26-Dec
	<i>(dollars per pound)</i>				
Weighted Price	1.4061	*1.3878	1.4391	1.4777	1.4840
	<i>(pounds)</i>				
Sales	2,004,001	*3,857,445	2,549,803	3,148,162	2,810,794

*Revised

National Dairy Products Sales Report
 USDA - Agricultural Marketing Service

December 30, 2020

40-Pound Block Cheddar Cheese Prices and Sales

United States	28-Nov	5-Dec	12-Dec	19-Dec	26-Dec
	<i>(dollars per pound)</i>				
Weighted Price	2.2025	1.9448	1.7524	1.6959	1.6641
	<i>(pounds)</i>				
Sales	10,466,111	12,637,476	12,322,993	11,762,574	10,233,547

500-Pound Barrel Cheddar Cheese Prices, Sales, and Moisture Content

United States	28-Nov	5-Dec	12-Dec	19-Dec	26-Dec
	<i>(dollars per pound)</i>				
Weighted Price	2.0324	1.6422	1.5509	1.5317	1.5520
	<i>(adjusted to 38% moisture)</i>				
Weighted Price	1.9315	1.5633	1.4773	1.4566	1.4767
	<i>(pounds)</i>				
Sales	11,053,309	13,458,124	13,209,507	13,979,774	9,727,861
	<i>(percent)</i>				
Weighted moisture content	34.76	34.87	34.91	34.80	34.84

Dry Whey Prices and Sales

United States	28-Nov	5-Dec	12-Dec	19-Dec	26-Dec
	<i>(dollars per pound)</i>				
Weighted Price	*0.3886	0.4126	*0.4088	*0.4267	0.4198
	<i>(pounds)</i>				
Sales	3,080,884	4,425,310	5,585,881	6,031,407	3,275,709

*Revised

Nonfat Dry Milk Prices and Sales

United States	28-Nov	5-Dec	12-Dec	19-Dec	26-Dec
	<i>(dollars per pound)</i>				
Weighted Price	1.0703	*1.0770	*1.1011	*1.1045	1.1089
	<i>(pounds)</i>				
Sales	19,376,157	26,769,793	*19,813,457	*18,904,077	13,782,341

*Revised

	Week Ending					
	28-Nov	5-Dec	12-Dec	19-Dec	26-Dec	Totals ²
Price						
Volume						
Value ¹						

Weighted Average Butter Price³

¹ To calculate the value, multiply the price times the volume

² Add up the weekly values to get a monthly total

³ Divide the weekly total value by the weekly total volume and round to 4 decimals



United States
Department of
Agriculture

Announcement of Class and Component Prices

United States Department of Agriculture

Agricultural Marketing Service

Dairy Program

Market Information Branch

CLS - 1220

December 30, 2020

December 2020 Highlights

Class II Price was \$14.01 per hundredweight for the month of December 2020. The price per hundredweight increased \$0.15 from the previous month. **Class III Price** was \$15.72 per hundredweight for the month of December 2020. The price per hundredweight decreased \$7.62 from the previous month. **Class IV Price** was \$13.36 per hundredweight for the month of December 2020. The price per hundredweight increased \$0.06 from the previous month.

Announcement of Class and Component Prices for December 2020

Class II Price:	\$14.01 (per hundredweight)
Class II Butterfat Price:	\$1.5469 (per pound)
Class II Skim Milk Price ¹ :	\$8.91 (per hundredweight)
Class III Price:	\$15.72 (per hundredweight)
Class III Skim Milk Price:	\$10.71 (per hundredweight)
Class IV Price:	\$13.36 (per hundredweight)
Class IV Skim Milk Price:	\$8.26 (per hundredweight)
Butterfat Price:	\$1.5399 (per pound)
Nonfat Solids Price:	\$0.9180 (per pound)
Protein Price:	\$3.0282 (per pound)
Other Solids Price:	\$0.2245 (per pound)
Somatic Cell Adjustment Rate:	0.00082 (per 1,000 somatic cell count)
Product Price Averages:	
Butter	\$1.4431 (per pound)
Nonfat Dry Milk	\$1.0951 (per pound)
Cheese	\$1.6433 (per pound)
40-Pound Blocks	\$1.7708 (per pound)
500-Pound Barrels	\$1.4944 (per pound)
Dry Whey	\$0.4171 (per pound)

¹ November 2020 Advanced Price Announcement

Class and Component Prices
 USDA - Agricultural Marketing Service

December 30, 2020

Federal Milk Order Class II, Class III, and Class IV Milk Prices, 2020

Month	Class II Price	Class II Butterfat Price	Class III Price	Class III Skim Milk Price	Class IV Price	Class IV Skim Milk Price
	<i>(\$/cwt)</i>	<i>(\$/lb)</i>			<i>(dollars per cwt)</i>	
Jan	17.05	2.1187	17.05	10.01	16.65	9.60
Feb	16.84	1.9883	17.00	10.43	16.20	9.60
Mar	16.75	1.9247	16.25	9.88	14.87	8.45
Apr	13.87	1.3288	13.07	8.75	11.40	7.02
May	12.30	1.3826	12.14	7.59	10.67	6.07
Jun	12.99	1.8661	21.04	15.06	12.90	6.62
Jul	13.79	1.9653	24.54	18.33	13.76	7.16
Aug	13.27	1.6345	19.77	14.58	12.53	7.08
Sep	13.16	1.6002	16.43	11.25	12.75	7.43
Oct	13.63	1.6458	21.61	16.45	13.47	8.01
Nov	13.86	1.5623	23.34	18.55	13.30	8.14
Dec	14.01	1.5469	15.72	10.71	13.36	8.26
Avg	14.29	1.7137	18.16	12.63	13.49	7.79

Federal Milk Order Class II, Class III, and Class IV Milk Prices, 2019

Month	Class II Price	Class II Butterfat Price	Class III Price	Class III Skim Milk Price	Class IV Price	Class IV Skim Milk Price
	<i>(\$/cwt)</i>	<i>(\$/lb)</i>			<i>(dollars per cwt)</i>	
Jan	15.74	2.5051	13.96	5.41	15.48	6.98
Feb	16.13	2.5415	13.89	5.20	15.86	7.24
Mar	16.61	2.5531	15.04	6.35	15.71	7.05
Apr	16.38	2.5445	15.96	7.34	15.72	7.09
May	16.48	2.5788	16.38	7.65	16.29	7.55
Jun	17.30	2.6649	16.27	7.22	16.83	7.80
Jul	17.61	2.6928	17.55	8.45	16.90	7.77
Aug	17.60	2.6644	17.60	8.60	16.74	7.71
Sep	16.93	2.5052	18.31	9.91	16.35	7.88
Oct	16.68	2.4101	18.72	10.68	16.39	8.27
Nov	16.85	2.3265	20.45	12.78	16.60	8.79
Dec	16.81	2.2022	19.37	12.11	16.70	9.34
Avg	16.76	2.5158	16.96	8.48	16.30	7.79

Class and Component Prices
USDA - Agricultural Marketing Service

December 30, 2020

Federal Milk Order Component Prices, 2020

Month	Butterfat Price	Nonfat Solids Price	Protein Price	Other Solids Price	Somatic Cell Adjustment Rate
	<i>(dollars per pound)</i>				<i>(\$/count)</i>
Jan	2.1117	1.0665	2.9606	0.1417	0.00090
Feb	1.9813	1.0667	3.0309	0.1750	0.00089
Mar	1.9177	0.9387	2.8424	0.1810	0.00085
Apr	1.3218	0.7795	2.4822	0.1793	0.00070
May	1.3756	0.6746	2.0918	0.1882	0.00065
Jun	1.8591	0.7354	4.5349	0.1696	0.00111
Jul	1.9583	0.7959	5.6294	0.1492	0.00129
Aug	1.6275	0.7862	4.4394	0.1387	0.00105
Sep	1.5932	0.8253	3.3935	0.1241	0.00089
Oct	1.6388	0.8902	5.0146	0.1534	0.00115
Nov	1.5553	0.9047	5.6226	0.1894	0.00123
Dec	1.5399	0.9180	3.0282	0.2245	0.00082
Avg	1.7067	0.8651	3.7559	0.1678	0.00096

Federal Milk Order Component Prices, 2019

Month	Butterfat Price	Nonfat Solids Price	Protein Price	Other Solids Price	Somatic Cell Adjustment Rate
	<i>(dollars per pound)</i>				<i>(\$/count)</i>
Jan	2.4981	0.7757	1.1927	0.2898	0.00069
Feb	2.5345	0.8041	1.1776	0.2631	0.00070
Mar	2.5461	0.7832	1.6303	0.2200	0.00077
Apr	2.5375	0.7883	1.9890	0.1990	0.00082
May	2.5718	0.8386	2.1159	0.1847	0.00085
Jun	2.6579	0.8665	2.0046	0.1702	0.00085
Jul	2.6858	0.8628	2.4032	0.1689	0.00091
Aug	2.6574	0.8570	2.4453	0.1730	0.00091
Sep	2.4982	0.8753	2.8633	0.1758	0.00095
Oct	2.4031	0.9186	3.1700	0.1447	0.00098
Nov	2.3195	0.9763	3.9118	0.1112	0.00109
Dec	2.1952	1.0378	3.6515	0.1341	0.00103
Avg	2.5088	0.8654	2.3796	0.1862	0.00088

Class and Component Prices
USDA - Agricultural Marketing Service

December 30, 2020

Dairy Products Price Averages Used in Federal Milk Order Price Formulas, 2020

Month	Product Price Averages For:							
	Class I (Skim, Bfat.), Class II (Skim, Nonfat Solids)				Class II (Bfat.), Class III, Class IV, Components			
	Butter	Nonfat dry milk	Cheese	Dry Whey	Butter	Nonfat dry milk	Cheese	Dry Whey
	<i>(dollars per pound)</i>				<i>(dollars per pound)</i>			
Jan	1.9894	1.2095	2.1082	0.3266	1.9153	1.2451	1.8092	0.3367
Feb	1.9311	1.2388	1.8081	0.3295	1.8076	1.2453	1.7884	0.3690
Mar	1.8277	1.2541	1.8032	0.3644	1.7551	1.1160	1.7091	0.3748
Apr	1.7767	1.1609	1.7346	0.3729	1.2630	0.9552	1.4026	0.3732
May	1.2407	0.9564	1.4120	0.3724	1.3074	0.8492	1.2990	0.3818
Jun	1.2538	0.8395	1.1859	0.3822	1.7067	0.9106	2.2152	0.3638
Jul	1.6598	0.8923	2.0174	0.3674	1.7886	0.9717	2.5873	0.3440
Aug	1.8018	0.9666	2.5653	0.3467	1.5154	0.9619	2.1099	0.3338
Sep	1.5567	0.9683	2.4073	0.3413	1.4871	1.0014	1.7741	0.3196
Oct	1.4872	1.0042	1.7481	0.3232	1.5248	1.0670	2.2921	0.3480
Nov	1.5188	1.0657	2.2550	0.3428	1.4558	1.0816	2.4535	0.3830
Dec	1.4726	1.0891	2.6180	0.3746	1.4431	1.0951	1.6433	0.4171
Avg	1.6264	1.0538	1.9719	0.3537	1.5808	1.0417	1.9236	0.3621

Dairy Products Price Averages Used in Federal Milk Order Price Formulas, 2019

Month	Product Price Averages For:							
	Class I (Skim, Bfat.), Class II (Skim, Nonfat Solids)				Class II (Bfat.), Class III, Class IV, Components			
	Butter	Nonfat dry milk	Cheese	Dry Whey	Butter	Nonfat dry milk	Cheese	Dry Whey
	<i>(dollars per pound)</i>				<i>(dollars per pound)</i>			
Jan	2.2538	0.8996	1.3786	0.4659	2.2343	0.9513	1.3868	0.4805
Feb	2.2328	0.9315	1.3930	0.4793	2.2644	0.9800	1.3940	0.4545
Mar	2.2912	0.9811	1.3769	0.4616	2.2740	0.9589	1.5383	0.4127
Apr	2.2854	0.9587	1.5430	0.4118	2.2669	0.9641	1.6468	0.3923
May	2.2652	0.9556	1.6274	0.3909	2.2952	1.0149	1.6974	0.3784
Jun	2.2883	1.0167	1.7007	0.3839	2.3663	1.0431	1.6910	0.3643
Jul	2.3622	1.0407	1.6745	0.3669	2.3893	1.0393	1.8238	0.3631
Aug	2.3870	1.0507	1.8061	0.3622	2.3659	1.0335	1.8276	0.3671
Sep	2.3643	1.0391	1.8153	0.3673	2.2344	1.0519	1.9053	0.3698
Oct	2.2665	1.0477	1.8531	0.3684	2.1559	1.0957	1.9694	0.3396
Nov	2.1496	1.1014	1.9402	0.3406	2.0869	1.1540	2.1723	0.3071
Dec	2.0879	1.1479	2.2000	0.2997	1.9842	1.2161	2.0509	0.3293
Avg	2.2695	1.0142	1.6924	0.3915	2.2431	1.0419	1.7586	0.3799

Calculate the Federal Milk Marketing Order prices for December, 2020...

AMS Butter Price =	\$	2.1112
AMS Cheese Price =	\$	1.4727
AMS Dry Whey Price =	\$	0.2525
AMS Nonfat Dry Milk Price =	\$	0.7084

From the Price Formulas — 2020 handout, find the Class III price section

Calculate the Butterfat price:	
Calculate the Other Solids price:	
Calculate the Protein price:	
Calculate Somatic Cell Adjustment Rate:	
Calculate the Skim Milk price:	
Calculate the Class III price:	

FMMO 30 Statistical Uniform Price =	\$	15.89
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Calculate the Producer Price Differential (PPD):	
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Calculate my Milk Check for February, 2018...

My Butterfat percent =	3.90%
My Protein Percent =	3.30%
My Other Solids Percent =	6.10%
My Somatic Cell Count (1000s) =	200
My PPD Adjustment =	\$ (0.10)
My Volume Premium =	\$ 0.20
My Quality Premium =	\$ 0.05
Checkoff deduction =	\$ 0.15
My Milk Hauling deduction =	\$ 0.80

Calculate My Net Milk Price:



PRODUCER: 0010378 PAYZONE: 002GRADE: A
 UW MADISON - DAIRY SCIENCE DEPT

www.foremostfarms.com
 PAY PERIOD ENDING: 07/31/2018

CHECK NO: 1293388
 CHECK DATE: 08/17/18

Daily Pounds	
Day	Lbs
1	41,293
2	41,757
3	40,391
4	41,337
5	42,594
6	40,866
7	42,176
8	41,977
9	42,506
10	41,381
11	42,286
12	42,021
13	42,308
14	43,162
15	42,837
31	42,087

Tests	
Pickup Days	31
Avg Bfat	3.65
Avg Prot	2.99
Avg Solids	5.86
Avg SCC	137,000
PLC 1st	1,000
PI 1st	2,000
PLC 2nd	1,000
PI 2nd	2,000
Cryo	
Antibiotics	N

Farm Totals	
Farm Weight MTD	1,310,256
Farm Weight YTD	9,437,752

Components	Pounds
Butterfat	47,847
Protein	39,165
Other Solids	76,823
SCC	1,310,256
Component Value	
Volume	
Quality Premium	
Zone Differential	
Assembly/Tanker Cr	
PLC/PI	
Adjustments to Gross	

Check Summary		
Unit Price	Value	YTD
2.5287 - 1b	120,990.71	956,305.81
1.4827 - 1b	58,069.95	544,900.27
.1422 - 1b	10,924.23	50,700.76
.1576 -cwt	2,064.96	18,356.70
14.6574 -cwt	192,049.85	1,570,263.54
.3419 -cwt	4,479.38	35,602.64
.1956 -cwt	2,562.86	22,048.11
.2200 -cwt	2,882.56	10,172.10
.1500 -cwt	1,965.38	15,137.21
.0700 -cwt	917.18	7,064.03
-.4400 -cwt	-5,765.13	-61,850.50

GROSS PAY	15.1949	199,092.08	1,598,437.13
Member Hauling Cost		2,125.86	27,615.00
Patron Fuel Surcharge		.00	.00
Gross Pay Less Hauling	15.0327	196,966.22	1,570,822.13
Less Deductions			
Mid-Month Advance		88,359.33	
Last Dec. Mid-Month Chk			99,366.81
Other Advances		.00	.00
Butter/Cheese/Other Food		.00	.00
Farm Supplies		.00	.00
State Promotion	.1000	681.36	9,437.77
National Promotion	.0500	340.68	4,718.88
CWT		272.55	3,775.10
Adjustments		116.00	1,290.75
Assignments		.00	.00
Total Deductions		89,769.92	118,589.31

Split Information			
Split To/From	%	Farm Wghts	Supply % Hauling %
YOUR %		1,310,256	

NET CHECK ***** 107,196.30 1,452,232.82

Assignments/Adjustments					
Name	Current Period	YTD	Name	Current Period	YTD
Market Adjustment	-5,765.13	-5,765.13			
Prior Gross Adj.		-56,085.37			
Total Adj. To Gross:	-5,765.13	-61,850.50			
NJ TEST KITS	116.00	116.00			
Prior Period Adj.		1,174.75			
Total Adjustments:	116.00	1,290.75			
Prior Period Assignm		.00			
Total Assignment:	.00	.00			