

CDE DAIRY MARKETS & MANAGEMENT UPDATE

All prices — MAR. 29, 2023 — except where noted



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MARCH: The trend of year-over-year (YOY) increasing national milk production continued during February, while Pennsylvania's YOY trend of decreasing milk production continued. With an improving world milk supply, U.S. prices are similar to European and New Zealand prices with perhaps the biggest determining factor being proximity to international buyers. That being said, January exports, the most current data available, performed really well as powder exports and cheese exports drove strong YOY increases in export volume and value. Over the next few paragraphs, we will take a look at how U.S. statistics are shaping current markets and how PA is playing its part as the 8th largest milk production state.

The herd size in the U.S. increased to 9.417 million in February, up 37,000 (+0.4%) compared to last year. The national herd also increased month-to-month with 12,000 cows more than Jan. 2023. Average milk production per cow also increased by nine pounds compared to last February to 1,877 pounds per cow. With more cows producing more milk than one year ago, total production climbed by 0.8% to 17.675 billion pounds during Feb. 2023. This is 135 million more than Feb. 2022.

Pennsylvania's herd size decreased YOY by 2,000 cows (-0.4%) to 466,000 in February 2023. However, this is the second month in a row that Pennsylvania was able to maintain its herd size. Milk cow efficiency was improved with a slight four-pound per cow (+0.2%) increase to 1,675 pounds per cow. Pennsylvania's February milk production per cow lags the national average by 202 pounds (10%). The slight increase in milk efficiency was not enough to offset the reduction in cow numbers to keep total production growth positive compared to one year ago. Total milk production across the Keystone State was relatively flat but did drop 1 million pounds (-0.1%) compared to Feb. 2022 to 871 million pounds.

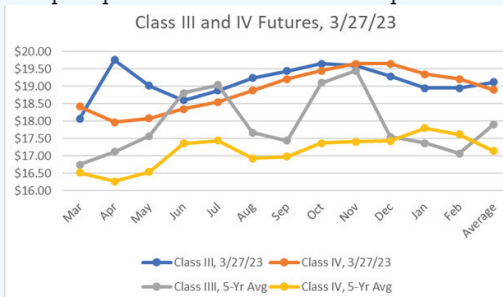
Since November 2021, Class III and IV milk prices have been inverted from the historical "normal" prices. Class IV has been higher than III every month except May 2022. This trend continues through this month, but Class III surpasses Class IV in April and stays higher through October before prices inverse again to basically finish out the year (see the accompanying graph). As of March 27 closing prices, the 12-month average Class III price

has improved a slight 18 cents to \$19.12 per cwt since the end of Feb. This is \$1.21 more than the 5-year average price of \$17.91.

The Class IV market has been hit by sluggish domestic and international butter sales that have overwhelmed improved powder exports. This is putting downward pressure on Class IV price resulting in a March 27, 12-month average of \$18.90 per cwt, 70 cents less compared to the end of February. Despite the recent Class IV slump, the current average price continues to be higher than the historic 5-year average of \$17.14 per cwt by \$1.76.

January exports started 2023 off strong, improving by 25,026 (+16%) metric tons (MT) of milk solids equivalents YOY to 181,676 MT. Exports of nonfat dry milk/skim milk powder (NDM/SMP), whey, lactose, and cheese—the top four dairy export categories—all experienced double-digit improvements to drive YOY export growth.

Export value also continued its YOY increase. Jan. U.S. dairy exports were valued at \$710.9 million, \$121.4 million (+21%) more than January 2022. Export growth this year will be challenged by an overall reduction in international dairy product prices. More competitive European cheese, butter, and skim milk powder prices will be headwinds for the U.S. in terms of continued YOY growth compared to last year. New Zealand is still experiencing milk production issues. However, their prices are similar to U.S. and European prices. This perhaps could make them more competitive from a location standpoint to international buyers such as China where freight costs may be reduced relative to product coming from the U.S. or Europe.



Prices change daily. This market information is an example for educational purposes. The market data below are compiled weekly by Farmshine, via CME & USDA reports

CME DAILY FUTURES & OPTIONS TRADING — MAR. 29, 2023 AT THE CLOSE

	MAR-23	APR-23	MAY-23	JUN-23	JUL-23	AUG-23	SEP-23	OCT-23	NOV-23	DEC-23	JAN-24	FEB-24	TREND			
CLASS III MILK FUTURES (\$/CWT) vs. week ago: <i>Steady to \$0.15 higher, spots up \$0.30, except June down \$0.13.</i>	18.06	19.50	18.50	18.47	18.93	19.32	19.56	19.62	19.58	19.24	18.95	18.90	12-Month Avg. 19.05↑↑			
CLASS IV MILK FUTURES (\$/CWT) vs. week ago: <i>Mar-Apr23 steady to firm, May23-Feb24 steady to \$0.10 lower.</i>	18.42	18.06	17.94	18.25	18.55	18.88	19.21	19.45	19.65	19.65	19.35	19.21	12-Month Avg. 18.89↓↓			
CLASS III MILK (\$/CWT) OPTIONS — PUTS — Daily Strike Price / Premium	18.00 0.02	19.50 0.29	18.50 0.63	18.50 0.76	19.00 0.91	19.25 0.93	19.50 1.04	19.50 1.07	19.50 1.19	19.50 1.14	19.25 1.26	19.00 1.19				
MILK BASIS (\$/CWT) — PA BASIS & 2016-19 AVG OF PA/NY/VT/OH — YOUR INDIVIDUAL BASIS WILL VARY (MAILBOX - CLASS 3)	PA 1.53	2.29	1.82	1.58	0.99	1.03	0.95	0.79	0.60	0.79	1.17	0.62				
*AVG YELLOW =	2.55	2.15	1.66	1.45	1.25	1.31	1.15	0.67	0.74	1.38	0.85	1.67				
DMC OFFICIAL GROSS MARGINS per cwt(USDA All-Milk, com, alfalfa & Ill. soybean, feed for ALL CLASSES of dairy cattle on farm) Updated with NEW prem. alfalfa feed cost	NOV-21	DEC-21	JAN-22	FEB-22	MAR-22	APR-22	MAY-22	JUN-22	JUL-22	AUG-22	SEP-22	OCT-22	NOV-22	DEC-22	*JAN-23	TREND
DMC	9.14	9.53	11.54	10.98	11.55	12.29	12.51	11.92	9.92	8.08	8.62	10.71	10.89	9.76	*7.94	↓↓

U.S. AVG PREMIUM ALFALFA & ALFALFA/GRASS HAY 20-22% CP - Source: USDA Monthly National Dairy Comprehensive Report															
NOV-21	DEC-21	JAN-22	FEB-22	MAR-22	APR-22	MAY-22	JUN-22	JUL-22	AUG-22	SEP-22	OCT-22	NOV-22	DEC-22	JAN-23	*FEB-23
262.84	242.90	270.34	253.80	278.02	280.00	322.00	321.17	312.50	308.17	290.70	300.10	289.50	296.50	266.60	*297.25 ↑↑
U.S. AVG. BRED COWS & HEIFERS (3rd trimester) per head as reported by USDA Monthly National Dairy Comprehensive Report															
1062	1152	1151	1237	1253	1390	1278	1184	1350	1407	1265	1310	1290	1300	1250	*1352 ↑↑

CORN FUTURES (\$/BU)													
MAY-23	JUL-23	SEP-23	DEC-23	MAR-24	MAY-24	JUL-24	SEP-24	DEC-24	MAR-25	MAY-25	JUL-25	TREND	
6.504	6.304	5.792	5.704	5.784	5.832	5.842	5.540	5.426	5.492	5.510	5.514	↑↑	
WEEK AGO													
6.334	6.116	5.660	5.544	5.632	5.684	5.704	5.456	5.360	5.432	5.450	5.456		

SOYMEAL FUTURES (\$/TON)													
MAY-23	JUL-23	AUG-23	SEP-23	OCT-23	DEC-23	JAN-24	MAR-24	MAY-24	JUL-24	AUG-24	SEP-24	TREND	
458.2	453.8	443.4	430.3	418.9	415.8	410.3	399.7	393.5	391.6	387.8	383.3	↑↑	
WEEK AGO													
451.6	446.9	435.6	420.8	409.3	406.2	400.7	390.4	384.4	382.5	378.7	374.0		

*NEW PA MILK MARGIN & IOFC-LATEST PSU VALUES - *JAN 2023				CME DAIRY CASH-SETTLED FUTURES (\$/LB) 03/29/23										SPOT CASH TREND		
FEED COST	IOFC (\$/COW)	PA MILK MARGIN	PA MILK MARGIN	MAR	APR	MAY	JUN	JUL	AUG	SEP						
(\$/CWT milk)	(\$/CWT milk)	@ 75 lbs milk	(\$/CWT milk)	NFDM 1.201	1.179	1.163	1.177	1.203	1.225	1.255	↓	↓	↓	1.1475	↓	
*JAN (estimated) *9.61↑↑	*10.71↓	*17.93↓		WHEY 0.419	0.405	0.375	0.370	0.385	0.380	0.398	↑	↑	↑	0.4425	↑	
PREV MO 9.45	12.04	19.13		BUTTER 2.420	2.390	2.392	2.427	2.470	2.480	2.507	↑	↑	↑	2.3975	↑	
YR AGO 8.42	12.28	16.38		CHEESE 1.841	2.001	1.916	1.918	1.960	2.000	2.015	↑	↑	↑	See Below		
Covers ONLY lactating feed, based on 75 lb herd avg, Buff., NY soy price				CME SPOT CHEESE: BARRELS 1.9050 / 40 LB BLOCKS 1.9350 ↓ / ↓												

*NEW ANNOUNCED FEDERAL ORDER PRICES (\$/CWT)										*CURRENT FEDERAL ORDER VALUES (\$/LB) * = *NEW					
CL I ADV	CL II	CL III	CL IV	ALL-MILK-U.S.	ALL-MILK-PA	WEIGHTED AVG. 4-WK FEB. 1-25, 2023	PRODUCT	VALUE	MAKE ALLOW	NET	FEB 2023 COMPONENTS				
*18.85(APR)	20.83(FEB)	17.78(FEB)	18.86(FEB)	23.10(JAN)↓	23.90(JAN)↓	CHEESE 1.8224	0.2003	1.6221	↓	↓	PROT	2.3650	↓	↓	
MONTH AGO						BUTTER 2.4158	0.1715	2.2443	↓	↓	B.FAT	2.7178	↓	↓	
18.99	21.61	19.43	20.01	24.70 4.27F	25.50 4.18F	NFDM 1.2553	0.1678	1.0875	↓	↓	N.FAT	1.0766	↓	↓	
YEAR AGO						DRYWHEY 0.4031	0.1991	0.2040	↓	↓	OTHER	0.2101	↓	↓	
24.38	23.79	20.91	24.00	24.20 4.21F	24.80 4.13F										

CATTLE - DAIRY PURPOSES (\$/HD) NORTHEAST (Avg. Mar. 22, 2023 sale New Holland, PA)														
COWS: Fresh Bred Springing *HEIFERS: Bred Springing Beefx Open: 300-600 lbs Beef X 600-900 lbs Beef X 900-1100 lbs				BULLS(900+ lbs)										
1550	1600	1750	LTD	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1075	LTD
WEEK AGO COMPARISON														
1560	1300	1450		1375	1510	1125	LTD	650	N/A	950	N/A	950	N/A	

Avg. of prices reported by USDA Market News for PA Auction Markets March 23-28, 2023				FED HOLSTEIN STEERS (\$/CWT LIVELINEWEIGHT)				CURRENT Beef X WEEK AGO YR AGO			
Premium White	Breakers	Boners	Lean	Choice & Prime 1250-1550 lbs light test	137.00	LTD	130.00	118.00	↑↑		
93.85↑↑	84.50↓	78.50↑↑		BULL CALVES: No. 1 & 2, 90-130 lbs	275.00	450.00	200.00	350	117.00	↑↑	
WEEK AGO				70-85 lbs	285.00	460.00	185.00	430	92.00	↑↑	
YEAR AGO											
N/A	93.75	85.75	73.50								
N/A	89.75	84.50	73.75								

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