DIXIE DAIRY REPORT January 2022

2021 ends and 2022 starts with dairy product prices moving higher. During the past few weeks all dairy product prices, especially butter, have moved upward. For the most recent week, the CME butter price averaged \$2.6670/lb., the highest weekly butter price since the summer of 2017. A month ago, the weekly average was \$1.9850/lb., and a year ago, butter was trading around \$1.50/lb. My best explanation for the price increase is low butter production and inventory, more on this below. Turning to cheese, CME block cheddar ended the week averaging \$2.0210/lb., up from \$1.8485 just a month ago. During the same time period barrel cheddar advanced about \$0.20/lb. to \$1.8245/lb. Shifting to powder, the December DPSR nonfat dry milk powder (NDM) price was \$1.5471/lb., the highest price since 2014. December dry whey was almost \$0.65/lb., about a quarter higher than last December.

Higher dairy product prices resulted in a January Class I Mover at \$19.71/cwt., the highest January Mover since 2014, and over \$4.50/cwt. higher than last January. 2021 ended with the December Class IV price at \$19.88/cwt. Last January Class IV was only \$13.75/cwt. This is over a \$6.00/cwt. increase in 12 months, and the largest Class IV price increase in a calendar year. December saw Class III at \$18.36/cwt. Opposite of Class IV, the 2021 Class III average is \$1.08/cwt. lower than 2020. Higher dry whey prices kept the Class III price from declining further. Looking ahead, current 2022 monthly Class III futures prices average \$20.35/cwt. and the Class IV average is \$21.61/cwt. Both prices are well above 2021 actual averages.

ANNUAL AVERAGE ACTUAL CLASS and DAIRY PRODUCT PRICES* (2019-2021)

Class Price or Dairy Product**	2019	2020	2021	2021 vs. 2020
Class I Mover	\$16.99	\$16.91	\$16.83	(80.08)
Class II	\$16.81	\$14.29	\$16.44	\$2.15
Class III	\$16.96	\$18.16	\$17.08	(\$1.08)
Class IV	\$16.30	\$13.49	\$16.10	\$2.61
Butter	\$2.2431	\$1.5808	\$1.7325	\$0.1517
Nonfat Dry Milk Powder	\$1.0419	\$1.0417	\$1.2693	\$0.2276
Dry Whey	\$0.3799	\$0.3621	\$0.5744	\$0.2123
Cheese – Barrel	\$1.7038	\$1.7745	\$1.5956	(\$0.1789)
Cheese - Block	\$1.7826	\$2.0442	\$1.7309	(\$0.3133)
Cheese – Average Block + Barrel	\$1.7586	\$1.9236	\$1.6755	(\$0.2481)

^{*}Dairy Product Prices used to calculate federal order prices

I did not anticipate dairy product prices increasing to current levels. A combination of lower supply, both milk and products, along with strong demand proved me wrong. Let me explain further:

1. Declining milk supply. In the dairy industry a small change in milk supply, makes a much larger change in price which is happening now. Milk production is declining in the U.S., and in Oceania and European Union (EU), the world's other two major dairy exporters. USDA reports November milk production 0.4% below last November, a relatively large monthly decline. The milk production drop is due to fewer cows, and a below average increase in milk per cow. Since the peak in May, dairy cow numbers have dropped 122,000 head, a historical large decline in a short period of time. Low or negative margins forced a large exit of dairy farmers. Higher feed, labor, and other production costs, plus tight forage supplies in some areas, are lowering milk production per cow. In Oceania and the European Union, USDA projects milk production in 2021 to be flat or only slightly higher than the previous year, with little improvement in 2022.

^{**} Class prices (\$/cwt. @ 3.5% fat) and dairy product prices (\$/lb.)

- 2. Low butter and NDM inventories and production. At the end of November, the butter inventory was 15.9% below last November. Inventory of NDM was 21.4% lower, and the lowest November inventory since 2017. On the production side, volume of butter produced has been below a year ago since July, with November production down a hefty 9.6%. Strong cream demand in products other than butter, has meant less cream churned into butter, and through October, butter disappearance is up 4.4%. Similar to butter, NDM production has been below a year ago since July. October and November production was 12.8% and 15.0%, lower than a year ago, respectively. Plus, less NDM production means less cream available for butter. Lower production and inventories, support higher prices.
- 3. Good domestic demand, and strong export demand. Through October, combined domestic and export dairy demand (total solids basis) is 2.8% above a year ago. 2021 will end with demand increasing more than milk supply. Separately, domestic demand is up a respectful 1.3%, but export demand is up a hefty 10.8%. Through October, skim/ nonfat milk powder (SMP) exports are 10% higher than the same period in 2020. The SMP supply outside of the U.S., especially in the EU is tight, which has lifted prices and increased more export opportunities for the U.S. The U.S. is expected to pass the EU as the world's number one SMP exporter in 2021. Even though it is only about 4.5% of total production, butter exports are up 122%. Tight global supply, plus competitive prices are making 2021 a record year for U.S. exports, responsible for 17% of total dairy demand.

The bottom line, a lower supply of milk and dairy products, especially butter and NDM, and strong demand is strengthening prices. Again, a small change in supply or demand, makes a larger change in dairy product prices.

2022 federal order blend prices. Projecting milk prices becomes more difficult when the speed and magnitude of dairy product price changes increase. Compared to last month, my 2022 blend price projections are about \$1.00/cwt. higher. However, I continue to be a conservative projector. Currently, I project 2022 blend prices, in the three Southeastern orders, averaging about \$3.00 - \$3.50/cwt. higher than 2021. My list of primary factors moving milk prices, higher or lower, in the coming year include: 1) The impact of both inflation and higher dairy product prices on domestic demand. Consumer purchasing power is expected to be lower in 2022. 2) Will exports continue at the current pace, especially to China? With over 17% of the nation's milk production exported, volume of dairy exports has a significant impact on milk price. 3) Milk production. Will high production costs, labor challenges, supply issues, improving cull cow prices, and the use of beef semen on dairy cows continue to lower the nation's dairy herd, or will higher milk prices stabilize cow numbers or lead to herd expansion? 4) Plant based dairy alternatives increasing market share in the dairy case. 5) On-going impact of coronavirus. 6) As history as shown, there is the potential for unexpected surprises that can sharply and quickly move milk prices up or down.

PROJECTED* BLEND PRICES SOUTHEASTERN FEDERAL ORDERS

Month	Appalachian	Florida	Southeast
	(\$	cwt. at 3.5% butterfat –	- base zone)
October 2021	\$19.70	\$21.55	\$19.86
November	\$21.13	\$22.93	\$21.22
December	\$22.14	\$23.88	\$22.12
January 2022	\$23.36	\$25.00	\$23.35
February	\$24.06	\$25.99	\$24.02
March	\$23.78	\$25.92	\$23.53

^{*}Projections in bold

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	2027	\$19.26	\$19.54 \$35.00	\$20.11	\$20.21	\$21.26	\$22.40	\$21.98	\$21.11	\$21.22	\$21.55	\$22.93	\$23.88	\$21.29
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2019 370.1 293.2 310.2 310.9 306.8 263.2 290.9 339.3 321.2 333.5 285.0 321.9 2020 344.9 301.4 349.0 317.7 317.8 322.8 319.1 318.1 324.6 336.6 332.5 347.0 2021 325.8 306.8 332.8 319.9 296.4 281.8 287.9 313.2 308.7 314.6 326.8 change -5.6% 1.8% -4.7% 0.7% -6.7% -12.7% -9.8% -1.5% -4.9% -6.5% -1.7% tal all Three Orders 2019 903.1 742.4 785.0 792.1 771.3 670.9 735.1 822.0 763.1 813.6 693.2 783.6 2020 836.9 736.4 846.6 754.1 737.8 739.2 748.6 729.3 748.0 789.1 767.0 802.0 2021 770.5 721.3 778.2 756.3 705.0 665.8 684.1 739.8 734.0 746.2 771.1 change -7.9% -2.1% -8.1% 0.3% -4.4% -9.9% -8.6% 1.4% -1.9% -5.4% 0.5%	Appalachia	1												
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2021 325.8 306.8 332.8 319.9 296.4 281.8 287.9 313.2 308.7 314.6 326.8 change -5.6% 1.8% -4.7% 0.7% -6.7% -12.7% -9.8% -1.5% -4.9% -6.5% -1.7% <u>tal all Three Orders</u> 2019 903.1 742.4 785.0 792.1 771.3 670.9 735.1 822.0 763.1 813.6 693.2 783.6 2020 836.9 736.4 846.6 754.1 737.8 739.2 748.6 729.3 748.0 789.1 767.0 802.0 2021 770.5 721.3 778.2 756.3 705.0 665.8 684.1 739.8 734.0 746.2 771.1 change -7.9% -2.1% -8.1% 0.3% -4.4% -9.9% -8.6% 1.4% -1.9% -5.4% 0.5%	2020	344.9	301.4	349.0	317.7	317.8	322.8	319.1	318.1	324.6	336.6	332.5	347.0	3,584.6
change -5.6% 1.8% -4.7% 0.7% -6.7% -12.7% -9.8% -1.5% -4.9% -6.5% -1.7% tal all Three Orders 2019 903.1 742.4 785.0 792.1 771.3 670.9 735.1 822.0 763.1 813.6 693.2 783.6 2020 836.9 736.4 846.6 754.1 737.8 739.2 748.6 729.3 748.0 789.1 767.0 802.0 2021 770.5 721.3 778.2 756.3 705.0 665.8 684.1 739.8 734.0 746.2 771.1 change -7.9% -2.1% -8.1% 0.3% -4.4% -9.9% -8.6% 1.4% -1.9% -5.4% 0.5%	2021	325.8	306.8	332.8	319.9	296.4	281.8	287.9	313.2	308.7	314.6	326.8		3,414.8
tal all Three Orders 2019 903.1 742.4 785.0 792.1 771.3 670.9 735.1 822.0 763.1 813.6 693.2 783.6 2019 903.1 742.4 785.0 792.1 771.3 670.9 735.1 822.0 763.1 813.6 693.2 783.6 2020 836.9 736.4 846.6 754.1 737.8 739.2 748.6 729.3 748.0 789.1 767.0 802.0 2021 770.5 721.3 778.2 756.3 705.0 665.8 684.1 739.8 734.0 746.2 771.1 2021 770.5 721.3 778.2 756.3 705.0 665.8 684.1 739.8 734.0 746.2 771.1 2021 770.5 721.3 778.2 756.3 705.0 665.8 684.1 739.8 734.0 746.2 771.1 2021 770.5 721.3 778.2 756.3 705.0 665.8 684.1 739.8 734.0 746.2 771.1 2021 770.5 721.3 778.2 756.3 705.0 665.8 684.1 739.8 734.0 746.2 771.1 2021 770.5 721.3 778.2 756.3 705.0 665.8 684.1 739.8 734.0 746.2 771.1 2021 770.5 721.3 778.2 756.3 705.0 665.8 684.1 739.8 734.0 746.2 771.1 2021 770.5 721.3 778.2 756.3 705.0 665.8 684.1 739.8 734.0 746.2 771.1 2021 770.5 721.3 778.2 756.3 705.0 665.8 684.1 739.8 734.0 746.2 771.1 2021 770.5 721.3 778.2 756.3 705.0 665.8 684.1 739.8 734.0 746.2 771.1 2021 770.5 721.3 778.2 756.3 705.0 665.8 684.1 739.8 734.0 746.2 771.1 2021 770.5 721.3 778.2 756.3 705.0 665.8 684.1 739.8 734.0 746.2 771.1 2021 770.5 721.3 778.2 756.3 705.0 665.8 684.1 739.8 734.0 746.2 771.1 2021 770.5 721.3 778.2 756.3 705.0 665.8 684.1 739.8 734.0 746.2 771.1 2021 770.5 721.3 778.2 778.2 779.3 705.0 665.8 684.1 739.8 734.0 746.2 771.1 2021 770.5 721.3 778.2 778.2 778.2 779	% change	-5.6%	1.8%	-4.7%	0.7%	-6.7%	-12.7%	-9.8%	-1.5%	-4.9%	-6.5%	-1.7%		-4.7%
2019 903.1 742.4 785.0 792.1 771.3 670.9 735.1 822.0 763.1 813.6 693.2 783.6 2020 836.9 736.4 846.6 754.1 737.8 739.2 748.6 729.3 748.0 789.1 767.0 802.0 2021 770.5 721.3 778.2 756.3 705.0 665.8 684.1 739.8 734.0 746.2 771.1 change -7.9% -2.1% -8.1% 0.3% -4.4% -9.9% -8.6% 1.4% -1.9% -5.4% 0.5%	Total all Th	ree Orders												
2020 836.9 736.4 846.6 754.1 737.8 739.2 748.6 729.3 748.0 789.1 767.0 802.0 2021 770.5 721.3 778.2 756.3 705.0 665.8 684.1 739.8 734.0 746.2 771.1 change -7.9% -2.1% -8.1% 0.3% -4.4% -9.9% -8.6% 1.4% -1.9% -5.4% 0.5%	2019	903.1	742.4	785.0	792.1	771.3	670.9	735.1	822.0	763.1	813.6	693.2	783.6	8,491.8
2021 770.5 721.3 778.2 756.3 705.0 665.8 684.1 739.8 734.0 746.2 771.1 change -7.9% -2.1% -8.1% 0.3% -4.4% -9.9% -8.6% 1.4% -1.9% -5.4% 0.5%	2020	836.9	736.4	846.6	754.1	737.8	739.2	748.6	729.3	748.0	789.1	767.0	802.0	8,433.0
change -7.9% -2.1% -8.1% 0.3% -4.4% -9.9% -8.6% 1.4% -1.9% -5.4%	2021	770.5	721.3	778.2	756.3	705.0	665.8	684.1	739.8	734.0	746.2	771.1		8,072.3
	% change	-7.9%	-2.1%	-8.1%	0.3%	-4.4%	-9.9%	-8.6%	1.4%	-1.9%	-5.4%	0.5%		-4.3%

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							,						
Southeaste	rn Federal	ત્રી Orders' F	ackaged F	luid Milk S	Sales - Mill	ion lbs.							
Florida	ات	П	∣≤	⊳	∣≤	ات	ات	⊳	S	10	Z	D	<u>aty</u>
2019	246	219	234	231	222	199	209	228	207	229	225	227	2,224
2020	252	231	256	226	220	208	209	206	208	223	219	224	2,239
2021	222	206	223	216	206	200	207	214	212	220			2,126
% change	-11.9%	-10.8%	-12.9%	-4.4%	-6.4%	-3.8%	-0.8%	3.9%	1.9%	-1.3%			-5.0%
Southeast													
2019	386	325	343	346	334	306	327	366	339	362	352	346	3,434
2020	372	337	386	338	327	313	320	318	318	339	331	344	3,368
2021	335	319	346	326	313	289	297	318	322	323			3,188
% change	-9.9%	-5.3%	-10.3%	-3.6%	-4.3%	-7.7%	-7.3%	0.0%	1.3%	-4.7%			-5.3%
<u>Appalachia</u>	<u> </u>												
2019	287	240	268	261	265	232	250	267	256	273	271	271	2,599
2020	280	252	299	272	274	268	278	283	279	286	283	291	2,771
2021	292	267	289	272	267	252	258	270	268	273			2,708
% change	4.3%	6.1%	-3.3%	0.1%	-2.6%	-5.8%	-7.3%	-4.6%	-3.9%	-4.5%			-2.2%
Total all Thi	ee Orders	,											
2019	919	784	845	838	821	737	786	861	802	864	848	844	8,257
2020	904	820	941	836	821	789	807	807	805	848	833	859	8,378
2021	849	792	859	814	786	741	762	802	802	816			8,022
% change	-6.1%	-3.4%	-8.8%	-2.6%	-4.3%	-6.0%	-5.6%	-0.6%	-0.4%	-3.8%			-4.2%

U.S. Estimated Fluid	ited Fluid N	/IIIK Sales -	· million lbs	<u>s</u>									
2019	4,210	3,650	3,917	3,866	3,911	3,446	3,620	3,889	3,756	4,042	4,008	3,953	38,3(
2020	4,071	3,704	4,242	3,864	3,803	3,631	3,709	3,663	3,716	3,969	3,832	4,013	38,372
2021	3,872	3,584	3,925	3,718	3,637	3,390	3,474	3,601	3,669	3,762			36,63
% change	-4.9%	-3.2%	-7.5%	-3.8%	-4.4%	-6.6%	-6.3%	-1.7%	-1.3%	-5.2%			-4.5
Southeast F	ederal Ord	rders' Class	I Utilization	ъ %									
<u>Florida</u>	IC_	ΤΙ	∣≤	I≫	∣≤	iC_	ات	I≫	W	10	Z	D	Avc
2019	86%	84%	82%	85%	86%	82%	83%	86%	80%	83%	82%	80%	839
2020	86%	82%	82%	78%	82%	84%	83%	82%	81%	84%	82%	81%	829
2021	79%	82%	84%	81%	79%	81%	86%	81%	83%	83%	85%		82%
Southeast													
2019	76%	70%	65%	67%	66%	57%	70%	74%	73%	78%	77%	73%	699
2020	71%	73%	66%	69%	68%	70%	69%	68%	67%	71%	69%	68%	69%
2021	68%	71%	62%	63%	64%	65%	68%	72%	71%	68%	71%		67
<u>Appalachian</u>	-												
2019	76%	72%	65%	66%	67%	63%	71%	73%	73%	75%	74%	70%	69
2020	74%	70%	70%	71%	69%	83%	85%	71%	72%	81%	76%	68%	74%
2021	71%	72%	68%	69%	67%	66%	69%	72%	74%	73%	77%		719

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* Florida, (These are	Total above 2019 2020 2021 Change %	Virginia M 2019 2020 2020 2021 Change %	Georgia N 2019 2020 2021 Change %	Florida Milk 2019 2020 2021 Change %	U.S. Dairy 2019 2020 2021 Change	2019 2020 2021 % change
Georgia, an the only th	/e Three 501 510 486 -4.7 %	132 134 134 130 - 3.0 %	Milk Produc 159 161 157 157	- ₹	Cows - 9,354 9,365 9,447 82	Production
d Virginia a ree Southe	States* Milk Production 466 517 484 519 444 501 -8.3% -3.5%	Virginia Milk Production - Million 2019 132 121 2020 134 127 2021 130 118 Change % -3.0% -7.1%	Georgia Milk Production - Million Ibs. 2019 159 148 168 2020 161 152 163 2021 157 143 163 2021 20.5% -5.9% 0.09	Production - Million 210 197 215 205 199 183 -7.4% -10.7%	1,000 head 9,352 9,377 9,460 83	U.S. Milk Production - Million lbs J E 2019 18,612 16,966 2020 18,877 17,895 2021 19,328 17,667 % change 2.4% -1.3%
occount for ast states f	Productic 517 519 501 -3.5%	on lbs. 134 137 133 -2.9%	on lbs. 165 163 163 0.0 %	218 219 205 - 6.4 %	9,333 9,391 9,474 83	bs. 18,845 19,402 19,780 1.9%
about two-t or which Us	n - Million 495 494 485 -1.8%	131 132 129 -2.3 %	157 154 157 1.9 %	207 208 199 -4.3 %	9,332 9,377 9,500 123	<u>A</u> 18,433 18,684 19,340 3.5%
hirds of the SDA reports	1bs. 501 485 480 -1.0%	133 133 130 -2.3 %	155 152 155 2.0 %	213 200 195 -2.5%	9,333 9,360 9,507 147	<u>M</u> 19,058 18,972 19,855 4.7%
Southeasts monthly m	466 455 457 0.4 %	122 126 121 - 4.0 %	145 143 150 4.9 %	199 186 186 0.0 %	9,327 9,355 9,503 148	18,225 18,414 18,954 2.9 %
* Florida, Georgia, and Virginia account for about two-thirds of the Southeastern States Mill These are the only three Southeast states for which USDA reports monthly milk production	454 448 441 -1.6%	119 123 120 -2.4%	143 142 146 2.8 %	192 183 175 -4.4 %	9,315 9,372 9,500 128	18,375 18,756 19,122 2.0%
Florida, Georgia, and Virginia account for about two-thirds of the Southeastern States Milk Production hese are the only three Southeast states for which USDA reports monthly milk production.	434 431 422 -2.1%	118 121 117 -3.3%	135 136 142 4.4 %	181 174 163 -6.3 %	9,318 9,374 9,447 73	<u>A</u> 18,267 18,632 18,739 0.6%
tion	410 411 406 -1.2 %	115 117 114 -2.6%	131 132 137 3.8 %	164 162 155 -4.3 %	9,333 9,395 9,414 19	<u>S</u> 17,595 18,031 18,038 0.0%
	438 435 428 -1.6%	120 123 119 - 3.3 %	139 141 146 3.5 %	179 171 163 -4.7 %	9,347 9,414 9,395 -19	<u>Q</u> 18,135 18,603 18,625 0.1%
	445 437 429 -1.8%	119 121 117 -3.3%	142 142 144 1.4 %	184 174 168 -3.4 %	9,345 9,432 9,385 -47	N 17,506 18,103 18,035 - 0.4 %
	480 471	126 128	152 151	202 192	9,343 9,442	<u>D</u> 18,365 18,851
	5,127 5,109 4,979 -2.5%	1,364 1,394 1,348 -3.3%	1,619 1,618 1,640 1.4%	YTD Total 2,144 2,097 1,991 - 5.1%		YTD Total 200,017 204,369 207,483 1.5%