

BUREAU OF AGRICULTURAL ECONOMICS  
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EVAPORATED, CONDENSED, AND DRY MILK REPORT  
(December 1949)

DRY MILK

In 1949, for the sixth consecutive year, a new high record was established in the output of total nonfat dry milk solids, the Bureau of Agricultural Economics reports. Production for the entire year of 1949 -- 917,960,000 pounds -- was 35 percent higher than 1948 and is more than double that of any year prior to 1942. On the other hand, dry whole milk production for 1949 was the lowest for any year since 1942.

December output of total nonfat solids was record high for the month, but the margin of gain from a year earlier was the lowest that has been shown in 15 months. At 58,700,000 pounds, production showed a gain of 17 percent from December a year earlier and 84 percent from the five-year average for the month. Spray-dried nonfat production for December was 39,600,000 pounds, a high record for the month, up 7 percent from a year earlier, and up 105 percent from the December five-year average. The 1949 output of 607,600,000 pounds was 39 percent above 1948. Roller-dried nonfat solids output for December was 19,100,000 pounds, record high for the month, a gain of 46 percent from a year earlier, and 53 percent from the five-year average for the month. For the entire year of 1949, the total of 310,360,000 pounds was 26 percent higher than 1948, but still below that of 1944 and 1945.

Dry whole milk production for December totaled 10,300,000 pounds, up 13 percent from a year earlier, but down 10 percent from the five-year December average. December output was the highest for the month since 1946 and the margin of gain over a year earlier was the highest in 18 months. Output of spray-dried for December was 9,200,000 pounds, up 16 percent from a year earlier while roller dried whole milk was 1,100,000 pounds, a decline of 9 percent.

Production of dry skim milk for animal feed in December totaled 1,050,000 pounds, a gain of 42 percent from a year earlier and 51 percent from the five-year December average; December production was the highest for the month since 1942. The 1949 total for this product was 20,025,000 pounds, up 52 percent from 1948. Dry buttermilk for December at 3,100,000 pounds was the highest for the month since 1944, but only fractionally higher than a year earlier and 2 percent less than the 1943-47 December average. During the entire year of 1949, production of dry buttermilk totaled 44,990,000 pounds, up 8 percent from 1948.

Sales of total nonfat dry milk by reporting manufacturers during December were 54,294,000 pounds -- 1 percent less than the record sales reported a year earlier. Manufacturers' sales of dry whole milk for December were 10,349,000 pounds, a gain of 32 percent from November, but a decline of 26 percent from a year earlier.

For the entire year of 1949, government purchases of nonfat dry milk solids were 442 million pounds, including purchases for price support as well as for other purposes. These purchases represent 48 percent of total production for the year. Purchases from January 1, 1950 through the 27th were between 20 and 21 million pounds.

Manufacturers' stocks of all nonfat dry milk solids totaled 48,392,000 pounds at the end of December, a gain of 9 percent from a year earlier and 73 percent from the 1943-47 December 31 average. Stocks of spray process were 33,126,000 pounds, a gain of 9 percent from a year earlier and 95 percent from the five-year December 31 average. Holdings of roller process were 15,266,000 pounds, up 10 percent from a year earlier and 38 percent from the 1943-47 average. It is estimated that the Federal Government had in storage approximately 250 million pounds of nonfat dry milk solids on December 31, 1949, and this total includes 105 million pounds which were sold to the United Nations Children's Fund.

Stocks of dry whole milk held by manufacturers on December 31 were 11,105,000 pounds, the lowest for the date since 1944, down 40 percent from a year earlier, and 10 percent below the December 31 five-year average. Holdings of dry skim milk for animal feed were 794,000 pounds at the end of December, a gain of 12 percent from a year earlier, but a decline of 14 percent from the 1943-47 average. Dry buttermilk stocks at 4,701,000 pounds were down 21 percent from a year earlier and 4 percent from the December 31 five-year average.

Manufacturers' selling prices of all nonfat dry milk solids during December averaged 12.11 cents per pound. This compares with 12.22 cents in November and 15.11 cents in December 1948.

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Reported shipments (F.O.B. plant)

NONFAT DRY MILK SOLIDS (Bulk goods)				DRY SKIM	DRY BUTTERMILK (Bulk goods)		
Price 1/ Cents	Human food		Animal	Price 1/ Cents	Human food		Animal
	Spray process	Roller process	feed		Food	Feed	
	P o u n d s				P o u n d s		
5 - 5½			5,850	6 - 6½			57,500
6 - 6½			22,561	6½ - 7			15,780
6½ - 7			35,653	7 - 7½			168,062
7 - 7½			133,576	7½ - 8	102,515		376,787
7½ - 8			208,203	8 - 8½	-		298,617
8 - 8½			199,136	8½ - 9	-		123,454
8½ - 9			183,054	9 - 9½	12,118		142,830
9 - 9½			93,887	9½ - 10	31,275		14,125
9½ - 10		341,155	1,665	10 - 10½	374,940		14,210
10 - 10½		766,602	34,394	10½ - 11	250,027		6,000
10½ - 11		2,949,627	12,106	11 - 11½	49,210		5,800
11 - 11½	499,835	7,535,507	-	11½ - 12	95,525		-
11½ - 12	2,854,794	4,098,390	96,600	12 - 12½	330,003		16,075
12 - 12½	15,059,366	251,391	-	12½ - 13	73,500		-
12½ - 13	13,183,318	102,319	-	13 - 13½	65,575		-
13 - 13½	4,194,267	1,220	-	13½ - 14	-		-
13½ - 14	2,452,332	4,000	-	14 - 14½	-		-
14 - 14½	-	-	-	14½ - 15	-		-
14½ - 15	-	-	1,558				
TOTAL	38,243,912	16,050,211	1,028,213		1,384,688		1,239,240
TOTAL HUMAN	54,294,123						
GRAND TOTAL		55,322,366				2,623,928	

MANUFACTURERS' SELLING PRICES OF DRY WHOLE MILK DURING DECEMBER 1949 2/  
Reported shipments (F.O.B. plant)

Price 1/ Cents	1-2½ lb. packages	5 lb. packages	All other pkgs. in- cluding bbls. & drums	Total
				reported shipments
	P o u n d s			
25½ - 26½			172,550	172,550
27 - 28			372,458	372,458
28½ - 29½			631,040	631,040
29 - 30			464,540	464,540
30 - 31			280,584	280,584
31 - 32			93,159	93,159
32 - 33			14,793	14,793
33 - 34	235,058	168,210	245,138	648,406
34 - 35	82,872	335,500	479,928	898,300
35 - 36	143,148	-	1,995	145,143
36 - 37	-	-	2,289,935	2,289,935
37 - 38	30,000	-	9,005	39,005
38 - 39	1,519	55,950	-	57,469
39 - 40	-	27,000	3,275	30,275
41 - 42	-	-	88,885	88,885
42 - 43	24,767	-	-	24,767
43 - 44	235,197	18,575	-	253,772
44 - 45	-	307,660	-	307,660
48 - 49	103,716	-	-	103,716
50 - 51	-	994,555	-	994,555
53 - 54	2,438,291	-	-	2,438,291
TOTAL	3,294,568	1,907,450	5,147,285	10,349,303

1/ Classified according to average monthly prices reported by firms.  
2/ Includes some dry whole in special packages for export.

DURING DECEMBER 1949 WITH COMPARISONS

Month	Nonfat dry milk solids			Dry skim solids an. & dry feed	N.F. solids & dry skim	Dry buttermilk			Dry whole milk			Total skpts.
	Spray	Roller	Spray & roller			Human Food	Animal feed	Human and Animal	1-2 1/2 lb. pkgs.	5-lb. pkgs.	Other pkgs. incl. bbls. & drums	
Cents per pound												
Dec. 1949	12.50	11.16	12.11	8.43	12.04	10.99	7.98	9.57	50.53	44.87	33.72	41.12
Nov. 1949	12.61	11.25	12.22	8.12	12.14	10.80	8.06	9.36	46.80	45.16	33.03	40.20
Dec. 1948	15.48	14.12	15.11	11.57	15.05	15.71	10.72	12.78	50.57	46.67	41.89	46.17
Dec. 1943-47	1/	1/	14.13	8.98	14.02	13.98	8.70	11.48	1/	1/	1/	39.85

1/ Not available.

AVERAGE MANUFACTURERS' CARLOT SELLING PRICES OF EVAPORATED AND CONDENSED MILK BY GEOGRAPHIC DIVISIONS DECEMBER 1949\*

Geographic Division	Case goods		Bulk goods			
	Evaporated (48 14 1/2-oz. cans) per case	Condensed (48 14-oz. cans) per case	Plain condensed (unsweetened)		Sweetened cond.	
	Dollars		Whole	Skimmed	Whole	Skimmed
Dollars per hundredweight						
New England	5.13	9.10	-	4.20	15.38	8.38
Middle Atlantic	5.06	9.10	13.61	3.83	14.35	7.34
South Atlantic	5.11	9.10	-	3.62	16.22	8.48
East North Central	5.03	9.10	12.07	3.70	13.39	7.96
West North Central	5.05	-	10.12	4.10	14.03	8.18
South Central	5.10	9.10	-	4.21	14.68	8.00
North Western	5.21	-	-	-	-	-
South Western	5.18	-	-	3.79	13.80	8.26
U. S. DECEMBER 1949	5.09	9.10	12.77	3.88	14.05	8.00
U. S. NOVEMBER 1949	5.09	9.10	12.87	3.88	14.16	8.09
U. S. DECEMBER 1948	5.95	9.60	14.76	4.90	16.48	8.95

\* Manufacturers' prices are based upon the reports made by manufacturers covering actual sales of goods delivered at manufacturers' distributing points on the basis of cash or short-time credit.

AVERAGE PRICES PAID PRODUCERS BY CONDENSERIES FOR 3.5% MILK F.O.B. PLANT FOR DECEMBER 1949 - 7 GEOGRAPHIC DIVISIONS 1/

Geographic Division	Number of plants or stations	Price per cwt.	
		Range Dollars	Average Dollars
Mid. Atlantic	5	2.86-3.55	3.26
South Atlantic	7	2.62-3.25	2.75
East North Central	85	2.60-3.55	2.89
West North Central	11	2.65-3.00	2.74
South Central	20	2.56-2.98	2.64
North Western	8	2.59-3.12	2.78
South Western	18	2.84-3.41	3.03
U. S. DECEMBER 1949	154	2.56-3.55	2.87
U. S. NOVEMBER 1949	152	2.56-3.76	2.86
U. S. DECEMBER 1948	152	2.80-4.85	3.33

1/ No prices available for the New England Division.

\* Prices paid in November at 18 Midwest condenseries used in determining class prices under the Chicago Milk Marketing Order for December.

Chicago \$2.951

\* Price for New York Market omitted because it is no longer used in calculating that formula.

FOR CANNING DURING DECEMBER 1949 1/ WITH COMPARISONS

State and Div.	December 1949			November 1949			December 1948		
	Price paid per 100 lbs. milk	Butter-fat test Pct.	Price per lb. of butter-fat Dollars	Price paid per 100 lbs. milk	Butter-fat test Pct.	Price per lb. of butter-fat Dollars	Price paid per 100 lbs. milk	Butter-fat test Pct.	Price per lb. of butter-fat Dollars
	Dollars	Pct.	Dollars	Dollars	Pct.	Dollars	Dollars	Pct.	Dollars
N.Y.	3.78	4.07	.93	3.83	4.14	.93	5.04	4.07	1.24
M. Atl. 2/	3.55	4.03	.88	3.85	4.23	.91	5.10	4.17	1.22
Va.	3.72	5.12	.73	3.75	5.10	.73	4.29	4.98	.86
W. Va.	3.69	4.84	.76	3.77	4.97	.76	4.20	4.87	.86
S. Atl. 2/	3.73	4.91	.76	3.77	4.98	.76	4.31	4.92	.88
Ohio	3.36	4.45	.76	3.34	4.74	.75	3.95	4.42	.89
Ind.	3.53	4.65	.76	3.45	4.57	.76	4.04	4.62	.87
Ill.	3.17	3.94	.81	3.15	3.93	.80	3.62	3.88	.93
Mich.	3.37	4.20	.80	3.40	4.25	.80	3.85	4.17	.92
Wis.	3.31	3.86	.86	3.39	3.96	.86	3.69	3.80	.97
E.N.C.	3.33	4.10	.81	3.36	4.16	.81	3.79	4.07	.93
Minn.	3.10	3.65	.85	3.17	3.73	.85	3.12	3.58	.87
Iowa	3.23	3.90	.83	3.26	3.94	.83	3.40	3.87	.88
Mo.	3.64	4.88	.75	3.60	4.88	.74	4.06	4.86	.84
Kans.	3.29	4.40	.75	3.28	4.41	.74	3.79	4.30	.88
W.N.C.	3.44	4.48	.77	3.45	4.54	.76	3.75	4.38	.86
Ky.	3.65	5.02	.73	3.70	5.08	.73	4.19	5.03	.83
Tenn.	3.69	5.04	.73	3.72	5.17	.72	4.21	5.06	.83
Miss.	3.77	5.18	.73	3.93	5.38	.73	4.39	5.34	.82
Texas	3.84	5.14	.75	3.99	5.36	.74	4.60	5.22	.88
S. Cent. 2/	3.71	5.06	.73	3.76	5.18	.73	4.26	5.10	.83
Idaho	3.85	4.37	.88	3.79	4.33	.87	4.14	4.50	.92
Wash.	3.69	4.56	.81	3.66	4.52	.81	4.59	4.35	1.06
Ore.	3.74	4.70	.79	3.72	4.77	.78	4.69	4.94	.95
N.W.	3.77	4.48	.84	3.72	4.46	.84	4.34	4.50	.96
Colo.	3.47	4.08	.85	3.31	4.05	.82	4.13	4.13	1.00
Utah	3.41	3.66	.93	3.28	3.63	.90	3.64	3.70	.98
Calif.	3.64	4.26	.85	3.56	4.16	.86	4.27	4.28	1.00
S.W. 2/	3.60	4.16	.87	3.51	4.07	.86	4.14	4.15	1.00
U. S. 2/	3.47	4.32	.80	3.50	4.40	.80	3.96	4.30	.92

1/ Preliminary; subject to revision. Prices are for milk of actual butterfat test as reported. All prices are reported as f.o.b. plant, country receiving station or concentrating station, and therefore include hauling costs.

2/ Includes prices for some States not shown separately.

MILK PURCHASES BY CONDENSERIES DECEMBER 1949, WITH COMPARISONS \*

	Unit	December		Dec. average 1943-47
		1949	1948	
Purchases, reported total	Pounds	397,489,000	408,010,000	389,929,000
Producers	Numbers	148,000	161,000	143,000
Average daily purchases per producer	Pounds	86.6	81.7	88.0
Changes in purchases per producer 1949 from 1948	Percent	+6.0	XXXX	XXXX
1949 from 5-yr. average	"	-1.6	XXXX	XXXX

\* Milk purchased at plants (or their receiving stations) which have canning equipment. In some periods a part or all of the milk received at such plants may be used for purposes other than the manufacture of canned milk.

Prices for spray process averaged 12.50 cents per pound compared with 12.61 cents for November and 15.48 cents per pound a year earlier. Selling prices of roller process were 11.16 cents in December, only fractionally lower than November, but almost 3 cents lower than a year earlier.

Prices of dry skim milk for animal feed averaged 8.43 cents per pound for December compared with 8.12 cents for November, 11.57 cents a year earlier, and 8.98 cents for the

COMMODITY	Dec. 1949 1/ Thousand pounds	Dec. 1948 2/ Thousand pounds	Change in Dec. 1949 from		Cumulative total	
			1948 Percent	1943-47 average	Jan.-Dec. 1949 Thous. lb.	Change from Jan.-Dec. 1948 Percent
<b>Evaporated and Condensed Milk</b>						
Evaporated (case goods)	151,000	143,359	+ 5	-17	2,755,550	-19
Condensed whole (case goods)	6,300	9,932	-37	-28	106,025	-16
Plain condensed whole (bulk)	15,600	8,896	+75	+99	253,780	+14
Plain condensed skimmed (bulk)	35,540	35,436	0	+15	508,025	+ 3
Sweetened cond. whole (bulk)	1,875	1,233	+52	-44	37,915	-17
Sweetened cond. skimmed (bulk)	9,800	10,534	- 7	-55	211,765	-12
<b>Dry Milk</b>						
Dry whole						
Spray process	9,200	7,938	+16	3/	114,300	-24
Roller process	1,100	1,215	- 9	3/	15,550	-18
<b>Total</b>	<b>10,300</b>	<b>9,153</b>	<b>+13</b>	<b>-10</b>	<b>129,850</b>	<b>-24</b>
<b>Dry nonfat solids</b>						
Human food - Spray process	39,600	37,101	+ 7	+105	607,600	+39
Human food - Roller process	19,100	13,079	+46	+53	310,360	+26
<b>Total (human food)</b>	<b>58,700</b>	<b>50,180</b>	<b>+17</b>	<b>+84</b>	<b>917,960</b>	<b>+35</b>
Dry skim milk (animal feed)	1,050	742	+42	+51	20,025	+52
Dry buttermilk	3,100	3,089	0	- 2	44,990	+ 8

1/ Estimated. 2/ Enumeration

3/ Spray and roller dry whole milk not reported separately prior to 1945.

#### MANUFACTURERS' STOCKS OF EVAPORATED, CONDENSED AND DRY MILK DECEMBER 31

COMMODITY	1949	1948 1/ Thousand pounds	Average 1943-47	Change in 1949 from	
				1948	1943-47 av. Percent
<b>Evaporated and Condensed Milk</b>					
Evaporated (case goods)	243,491	424,619	137,345	-43	+77
Condensed whole (case goods)	7,306	12,576	6,619	-41	+12
<b>Dry Milk</b>					
Dry whole					
Spray process	11,063	18,312	2/	-40	2/
Roller process	42	179	2/	-77	2/
<b>Total</b>	<b>11,105</b>	<b>18,491</b>	<b>12,291</b>	<b>-40</b>	<b>-10</b>
<b>Dry nonfat solids</b>					
Human food - Spray process	33,126	30,437	16,946	+ 9	+95
Human food - Roller process	15,266	13,938	11,081	+10	+38
<b>Total (human food)</b>	<b>48,392</b>	<b>44,375</b>	<b>28,027</b>	<b>+ 9</b>	<b>+73</b>
Dry skim milk (animal feed)	794	708	925	+12	-14
Dry buttermilk	4,701	5,972	4,906	-21	- 4

1/ Revised to include late reports. 2/ Not reported separately prior to January 1945.

December five-year average. Selling prices of dry buttermilk averaged 9.57 cents per pound compared with 9.35 cents in November and 12.78 cents a year earlier.

Manufacturers' selling prices of dry whole milk in all packages averaged 41.12 cents per pound for December compared with 40.20 cents in November, 46.17 cents a year earlier, and a five-year December average of 39.85 cents per pound. Sales in 1-2½ pound packages averaged 50.53 cents, a gain of nearly 4 cents from November, but about unchanged from a year earlier. In 5 pound packages, prices averaged 44.87 cents per pound for December compared with 45.16 cents for November and 46.67 cents a year ago. Prices for all other packages averaged 33.72 cents in December, 33.03 cents in November, and 41.39 cents per pound a year earlier.

#### EVAPORATED AND CONDENSED MILK

Evaporated milk production in 1949 totaled 2,755,550,000 pounds, the smallest for any year since 1940, according to the Bureau of Agricultural Economics. Manufacturers' stocks at the end of December had declined more than 200 million pounds during the previous five months, and were sharply lower than a year earlier. However, they were still large, compared with holdings on the same date for years prior to 1948. Selling prices of evaporated milk in December were the lowest for the month since 1945.

December production of evaporated milk was 151,000,000 pounds, up 5 percent from a year earlier but down 17 percent from the December five-year average. Total output for the year 1949 was 19 percent below that of 1948 and 27 percent less than the record high output in 1945.

Canned condensed whole milk production for December was 6,300,000 pounds, down 37 percent from a year earlier and down 28 percent from the December 1943-47 average. The 1949 annual output totaled 106,025,000 pounds, the smallest since 1942 and 16 percent under that of 1948.

Annual production of plain condensed bulk goods items for 1949 was the largest of record, while the output of sweetened condensed milk, bulk goods items, was the smallest in several years. The 1949 output of plain condensed whole milk was 253,780,000 pounds, a new high record and 14 percent above 1948. December production of this product set a record high of 15,600,000 pounds, which was 75 percent above a year earlier and about double the five-year December average. The 1949 production of plain condensed skim milk totaled 508,025,000 pounds, the highest on record and 3 percent above 1948. December output was 35,540,000 pounds, only fractionally higher than a year earlier, but 15 percent above the five-year average for the month. Total production of sweetened condensed whole milk for 1949 was 37,915,000 pounds, the lowest on record since 1935 and 17 percent below the previous year. Output of this product in December of 1,875,000 pounds was up 52 percent from a year earlier, but down 44 percent from the 1943-47 December average. Sweetened condensed skim milk production in 1949 totaled 211,765,000 pounds, the smallest since 1941 and 12 percent under 1948. In December, production of this item was 9,800,000 pounds, down 7 percent from a year earlier and 55 percent below the five-year average.

Manufacturers' stocks of evaporated milk were 243,491,000 pounds at the end of December, a decline of 43 percent from a year earlier, but 77 percent higher than the 1943-47 average for the date. Holdings of canned condensed whole milk on December 31 were 7,386,000 pounds, the smallest for the date since 1947 and 41 percent under a year earlier. However, these holdings were still 12 percent above the five-year average for the date.

Manufacturers' selling prices of all condensed and evaporated milk items were the lowest for the month in several years. Selling prices of evaporated milk for December averaged \$5.09 per case of 48 14 $\frac{1}{2}$ -oz. cans, which is unchanged from the preceding month, but 36 cents below a year earlier. This price is the lowest for the month since 1945. Prices of sweetened condensed whole milk remained unchanged for the tenth consecutive month, at \$9.10 per case of 48 14-oz. cans. This was 50 cents under the price prevailing a year earlier.

Selling prices of all condensed bulk goods items were unchanged or lower than in the preceding month. Manufacturers' selling prices of plain condensed whole milk averaged \$12.77 per hundredweight for December, down 10 cents from November and \$1.99 from a year earlier. Prices of plain condensed skim milk averaged \$3.88 per hundredweight, which is unchanged from the preceding month but \$1.02 below a year earlier. Selling prices of sweetened condensed whole milk were \$14.05 per hundredweight for December, down 11 cents from November and \$2.43 from a year earlier. December selling prices of sweetened condensed skim milk, at \$8.00 per hundredweight, were 9 cents less than a month earlier and 95 cents below a year earlier.

Prices paid by condenseries for milk of 3.5 percent butterfat during December averaged \$2.87 per hundredweight, up 1 cent from November but down 46 cents from a year earlier.

Based on actual butterfat test, prices paid by condenseries during December averaged \$3.47 per hundredweight for milk of 4.32 percent butterfat, or an average of 80 cents per pound of butterfat. The price per pound of butterfat was unchanged from November, but was 12 cents lower than a year earlier. In December, prices per pound of butterfat by States ranged from 73 cents in Virginia, Kentucky, Tennessee, and Mississippi, to 93 cents in New York and Utah.

Condenseries reported purchases of 397,489,000 pounds of milk from approximately 148,000 producers during December. The average daily purchases per producer was 86.6 pounds, up 6 percent from a year earlier but down 2 percent from the five-year December average.