



# Measures of Growth In Federal Orders

United States Department of Agriculture

Agricultural Marketing Service

Dairy Program

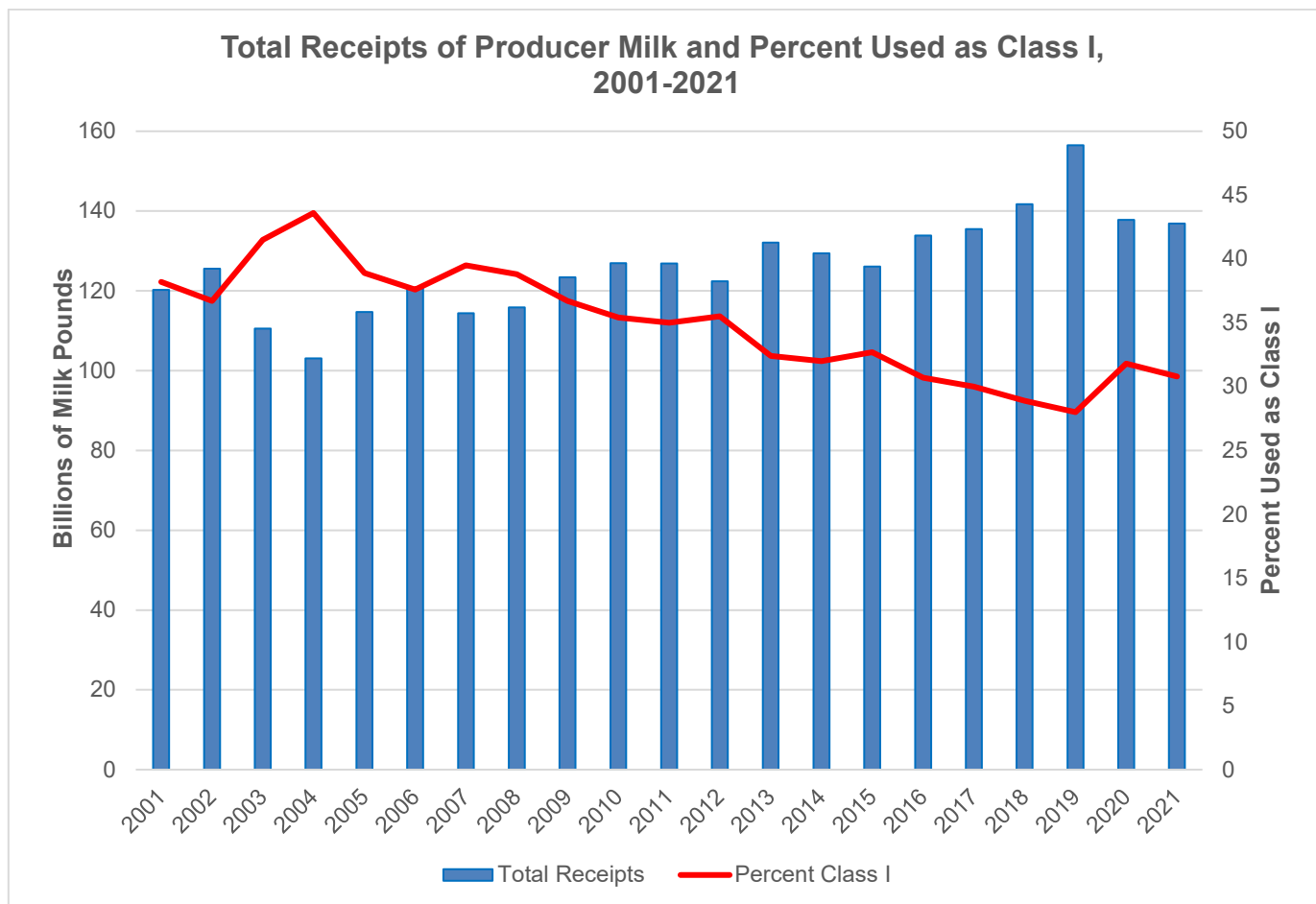
Market Information Branch

MGFMO-2021

May 18, 2022

## 2021 Highlights

**Total Receipts** of milk pooled under Federal Milk Marketing Orders totaled 136.8 billion pounds marketed by 23,292 dairy producers across all Federal orders in 2021. Total receipts were 0.7 percent lower than 2020. Pooled producer numbers were 6.5 percent lower than 2020. The average daily delivery of producer milk per pooled producer was 6.4 percent higher compared to 2020. In 2021, milk marketed through Federal orders accounted for 61 percent of all milk sold and 61 percent of fluid grade milk sold to U.S. plants and milk dealers.



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Year	Number of Markets	Number of Pool Handlers	Number of Pooled Producers	Population of Federal Milk Marketing Areas	Total Receipts of Producer Milk	Producer Milk Used as Class I	Percent of Producer Milk Used as Class I
	<i>(number)</i>			<i>(thousands)</i>	<i>(million pounds)</i>		<i>(percent)</i>
1947	29	991	135,830	NA	14,980	9,808	65.5
1948	20	993	136,363	NA	15,020	9,852	65.6
1949	33	966	142,995	NA	17,049	10,104	59.3
1950	39	1,101	156,584	NA	18,660	11,000	58.9
1951	44	1,343	172,327	39,891	20,117	12,718	63.2
1952	49	1,352	176,752	41,185	22,998	14,672	63.8
1953	49	1,308	183,479	41,506	25,896	15,436	59.6
1954	53	1,333	186,127	43,266	27,140	16,172	59.6
1955	63	1,483	188,611	46,963	28,948	18,032	62.3
1956	68	1,486	183,830	48,575	31,380	19,615	62.5
1957	68	1,889	182,551	57,297	33,455	21,339	63.8
1958	74	1,962	186,155	60,717	36,356	23,309	64.1
1959	77	2,197	187,576	67,720	40,149	26,250	65.4
1960	80	2,259	189,816	88,818	44,812	28,758	64.2
1961	81	2,314	192,947	93,727	48,803	29,859	61.2
1962	83	2,258	186,468	97,353	51,648	31,606	61.2
1963	82	2,144	176,477	100,083	52,860	32,964	62.4
1964	77	2,010	167,503	99,333	54,447	33,965	62.4
1965	73	1,891	158,077	102,351	54,444	34,561	63.5
1966	71	1,724	145,964	98,307	53,012	34,805	65.7
1967	74	1,650	140,657	103,566	53,761	34,412	64.0
1968	67	1,637	141,623	117,013	56,444	36,490	64.6
1969	67	1,628	144,275	122,319	61,026	39,219	64.3
1970	62	1,588	143,411	125,721	65,104	40,063	61.5
1971	62	1,529	141,347	142,934	67,872	40,268	59.3
1972	62	1,487	136,881	144,749	68,719	40,938	59.6
1973	61	1,355	131,565	144,738	66,229	40,519	61.2
1974	61	1,312	126,805	146,264	67,778	39,293	58.0
1975	56	1,315	123,855	150,666	69,249	40,106	57.9

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Year	Number of Markets	Number of Pool Handlers	Number of Pooled Producers	Population of Federal Milk Marketing Areas	Total Receipts of Producer Milk	Producer Milk Used as Class I	Percent of Producer Milk Used as Class I
		<i>(number)</i>		<i>(thousands)</i>	<i>(millions of pounds)</i>		<i>(percent)</i>
1976	50	1,305	122,675	157,295	74,586	40,985	54.9
1977	47	1,260	122,755	159,504	77,947	41,125	52.8
1978	47	1,189	119,326	161,244	78,091	41,143	52.7
1979	47	1,127	116,447	163,053	79,436	41,011	51.6
1980	47	1,091	117,490	164,908	83,998	41,034	48.9
1981	48	1,058	119,323	166,663	87,989	40,746	46.3
1982	49	1,010	120,743	172,775	91,611	40,807	44.5
1983	46	958	121,052	175,624	95,757	41,091	42.9
1984	45	912	119,033	177,524	91,676	41,517	45.3
1985	44	884	116,765	176,440	97,762	42,201	43.2
1986	44	849	112,322	177,992	98,761	42,725	43.2
1987	43	797	105,882	180,374	98,182	42,876	43.7
1988	42	776	104,141	184,180	100,066	43,141	43.1
1989	41	748	100,291	185,919	95,871	43,367	45.2
1990	42	753	100,397	195,841	102,396	43,783	42.8
1991	40	722	100,267	198,409	103,252	45,033	43.6
1992	40	698	97,803	200,530	107,947	44,914	41.6
1993	38	675	92,934	199,604	103,979	44,805	43.1
1994	38	629	91,397	201,561	107,811	44,866	41.6
1995	33	571	88,717	207,548	108,548	45,044	41.5
1996	32	570	82,947	209,599	104,501	45,479	43.5
1997	31	570	78,422	208,379	105,224	44,917	42.7
1998	31	522	72,402	210,484	99,223	44,968	45.3
1999	31	487	69,008	212,118	104,479	45,216	43.3
2000	11	346	*69,585	*229,473	*116,923	45,989	39.3
2001	11	350	*66,418	*231,692	120,223	45,887	38.2
2002	11	338	*63,852	*233,819	125,546	46,043	36.7
2003	11	331	*58,104	*235,786	110,581	45,843	41.5
2004	10	306	*52,853	*237,988	103,048	44,939	43.6
2005	10	302	*53,032	*234,834	114,682	44,570	38.9

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	Number of Markets	Number of Pooled Handlers	Number of Pooled Producers	Population of Federal Milk Market Areas <sup>2</sup>	Total Receipts of Producer Milk	Producer Milk Used as Class I	Percent of Producer Milk Used as Class I
		<i>(number)</i>		<i>(thousands)</i>	<i>(millions of pounds)</i>		<i>(percent)</i>
2006	10	314	*52,721	*238,437	120,618	45,304	37.6
2007	10	312	*49,777	*240,774	114,407	45,226	39.5
2008	10	333	*47,854	*243,034	115,867	44,989	38.8
2009	10	251	*46,671	*245,145	123,430	45,262	36.7
2010	10	251	45,918	*247,161	126,909	44,970	35.4
2011	10	241	*43,650	*248,964	126,879	44,383	35.0
2012	10	237	*40,745	*250,788	122,388	43,492	35.5
2013	10	225	*40,043	*252,499	132,100	42,742	32.4
2014	10	223	*39,146	*254,339	129,420	41,420	32.0
2015	10	214	*36,112	*256,225	126,126	41,206	32.7
2016	10	216	*34,689	*258,142	133,846	41,140	30.7
2017	10	217	*32,981	*259,835	135,502	40,642	30.0
2018 <sup>1</sup>	11	233	32,061	*300,717	141,684	40,945	28.9
2019	11	230	*29,468	*302,048	156,510	43,882	28.0
2020	11	228	24,906	*304,861	137,818	43,766	31.8
2021	11	223	23,292	305,078	136,836	42,127	30.8

\* Revised. NA - Data not available. <sup>1</sup> 2018 includes November and December data from the California Federal Milk Marketing Order which became effective November 1, 2018. <sup>2</sup> Population data revised for 2000 to 2021 based on updated Census data.

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Year	Percentage of All Milk Sold		Milk Price at 3.5% Butterfat Content		Average Daily Delivery Per Producer	Gross Value of Producer Milk	
	Fluid Grade	All Milk	Class I	Blend		Per Pooled Producer	All Pooled Producers
	<i>(percent)</i>		<i>(\$/cwt)</i>		<i>(pounds)</i>	<i>(dollars)</i>	<i>(thousands)</i>
1947	NA	21	4.65	4.34	302	5,024	682,407
1948	NA	22	5.29	4.97	301	5,713	779,079
1949	NA	23	4.67	4.03	327	5,019	717,748
1950	41	25	4.51	3.93	326	4,914	769,442
1951	44	27	5.13	4.59	320	5,605	965,900
1952	46	30	5.37	4.85	356	6,598	1,166,246
1953	49	31	4.91	4.31	387	6,355	1,166,015
1954	49	31	4.62	4.01	399	6,098	1,135,019
1955	51	32	4.67	4.08	420	6,510	1,227,815
1956	51	33	4.90	4.24	466	7,534	1,384,955
1957	53	34	4.87	4.51	502	8,147	1,487,153
1958	56	36	4.72	4.40	535	8,500	1,582,310
1959	60	40	4.79	4.43	586	9,466	1,775,583
1960	64	43	4.88	4.47	648	10,482	1,989,615
1961	67	45	4.91	4.45	704	11,131	2,147,656
1962	70	47	4.80	4.14	761	11,854	2,210,330
1963	70	48	4.78	4.15	821	12,814	2,261,437
1964	70	48	4.87	4.23	888	14,174	2,374,137
1965	70	48	4.93	4.31	944	15,300	2,418,526
1966	70	48	5.55	4.95	994	18,526	2,630,908
1967	71	49	5.85	5.17	1,056	20,321	2,858,351
1968	74	52	6.23	5.53	1,089	22,561	3,195,087
1969	77	56	6.50	5.74	1,164	24,892	3,591,293
1970	79	59	6.74	5.95	1,244	27,636	3,963,311
1971	80	60	6.90	6.08	1,316	29,893	4,225,340
1972	78	60	7.10	6.31	1,372	32,439	4,400,288
1973	78	60	8.03	7.31	1,386	37,461	4,928,514
1974	78	61	9.35	8.36	1,464	45,376	5,753,852
1975	78	63	9.36	8.64	1,532	49,233	6,097,768

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Year	Percentage of All Milk Sold		Milk Price at 3.5% Butterfat		Average Daily Delivery Per Producer	Gross Value of Producer Milk	
	Fluid Grade	All Milk	Class I	Blend		Per Pooled Producer	All Pooled Producers
	<i>(percent)</i>		<i>(\$/cwt)</i>		<i>(pounds)</i>	<i>(dollars)</i>	<i>(thousands)</i>
1976	79	65	10.70	9.75	1,661	60,277	7,394,486
1977	80	66	10.59	9.69	1,740	62,692	7,695,764
1978	80	67	11.40	10.57	1,793	70,528	8,415,787
1979	80	67	12.88	11.97	1,870	83,262	9,695,637
1980	80	67	13.77	12.86	1,954	93,685	11,007,001
1981	80	68	14.69	13.63	2,021	102,354	12,213,199
1982	81	69	14.63	13.53	2,079	104,573	12,626,510
1983	82	70	14.69	13.53	2,168	109,142	13,211,805
1984	81	70	14.41	13.33	2,104	104,935	12,490,729
1985	80	70	13.88	12.61	2,294	107,871	12,595,522
1986	80	71	13.60	12.38	2,413	111,581	12,515,451
1987	80	71	13.90	12.51	2,542	118,402	12,529,800
1988	79	71	13.42	12.14	2,627	119,261	12,419,974
1989	75	68	14.51	13.30	2,614	129,744	13,012,796
1990	77	70	15.55	13.78	2,796	142,324	14,289,567
1991	76	71	13.30	12.11	2,821	121,479	12,180,354
1992	77	73	14.57	13.12	3,017	146,452	14,323,698
1993	73	69	14.19	12.89	3,073	145,350	13,507,974
1994	75	71	14.75	13.16	3,232	156,253	14,281,193
1995	75	71	14.19	12.79	3,350	157,754	13,995,454
1996	72	69	16.19	14.64	3,442	187,713	15,570,261
1997	71	69	14.36	13.10	3,676	178,424	13,992,366
1998	66	64	16.14	14.92	3,755	202,770	14,681,340
1999	67	65	16.24	14.09	4,148	216,794	14,960,544
2000	72	70	14.24	12.11	*4,604	207,913	14,468,892
2001	75	73	16.96	14.90	4,959	275,642	18,308,968
2002	77	76	13.69	11.91	5,387	239,520	15,294,802
2003	67	65	14.10	12.12	5,178	242,066	14,066,672
2004	62	61	17.56	15.74	*5,369	324,119	16,965,368
2005	66	65	17.13	15.07	5,904	334,626	17,747,577

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Year	Percentage of All Milk Sold		Milk Price at 3.5% Butterfat		Average Daily Delivery Per Producer	Gross Value of Producer Milk	
	Fluid Grade	All Milk	Class I	Blend		Per Pooled Producer	All Pooled Producers
	<i>(percent)</i>		<i>(\$/cwt)</i>		<i>(pounds)</i>	<i>(dollars)</i>	<i>(thousands)</i>
2006	68	67	14.59	12.86	6,264	303,429	15,998,288
2007	63	62	20.81	19.19	6,297	452,097	22,507,219
2008	61	62	20.78	18.24	*6,633	453,886	21,722,538
2009	66	66	14.40	12.44	*7,243	339,698	15,856,077
2010	67	66	18.25	16.07	7,572	444,038	20,389,201
2011	66	65	21.97	19.87	*7,965	577,538	25,211,996
2012	62	61	20.39	18.05	*8,209	542,121	22,091,337
2013	67	66	21.80	19.44	*9,039	641,295	25,682,588
2014	63	63	26.14	23.54	*9,074	793,728	30,472,016
2015	61	61	19.21	16.70	9,559	583,173	21,063,042
2016	64	*63	17.70	15.38	*10,557	593,364	20,585,571
2017	64	63	19.31	16.96	*11,244	696,651	22,981,139
2018 <sup>1</sup>	66	65	17.70	15.51	*12,449	685,389	21,974,258
2019	73	72	19.74	17.35	*14,513	*921,492	27,154,539
2020	63	62	19.70	16.12	15,102	892,007	22,216,324
2021	61	61	19.56	17.33	16,074	1,018,102	23,713,626

\* Revised. NA - Data not available. <sup>1</sup> 2018 includes November and December data from the California Federal Milk Marketing Order which became effective November 1, 2018.

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## Methodology: Growth in Federal Milk Order Markets

**Data:** The Measures of Growth in Federal milk order markets is created using information on the handling of milk obtained from Federal milk marketing order personnel.

The number of Federal order markets and the number of handlers is at year end.

The annual number of pooled producers is the simple average number of producers pooled each month during that year.

The population of Federal milk marketing areas is obtained from published *U.S. Census Annual Estimates of the Resident Population for Counties* in U.S. Census years (1950, 1960, 1970, 1980, 1990, 2000, 2010, and 2020). Annual Federal order county populations are estimated by the Census Bureau for Federal order counties for the years between each U.S. Census.

The receipts of producer milk and producer milk used in Class I reflects millions of pounds. Beginning in 1990, due to disadvantageous price situations in some markets, regulated handlers elected not to pool milk that normally would have been associated with the order. This has reduced, sometimes substantially, the volume of producer milk receipts reported for some markets. This can also affect significantly the comparability of other "Measures of Growth" based on this statistic.

The percent used as Class I is the percentage of all milk pooled that is used to produce Class I fluid products as defined by the Code of Federal Regulation (CFR 1000.15).

The percentage of all milk sold is the amount of producer milk pooled on Federal orders as a percentage of the total amount of milk sold to U.S. plants and dealers, both as fluid grade (Grade A) and all milk sold. The amount of milk sold to U.S. plants and dealers is obtained from the USDA National Agricultural Statistics Service *Milk Production, Disposition, and Income*, 2021 Summary, ISSN: 1949-1506, issued April 28, 2022.

The milk price at 3.5% butterfat content is the weighted average Federal order minimum regulated milk price for milk at a standardized 3.5% butterfat content. Milk prices are simple averages for 1950-65 and weighted averages for 1970 to date. Milk prices are based on the blend (uniform) price adjusted for the butterfat content, and starting in 1990, other milk components of producer milk.

The average daily delivery of milk per producer is calculated by dividing producer receipts by the number of producers pooled. The annual average is the average of the monthly averages.

The annual gross value of receipts of producer milk per producer is calculated by dividing the total value of all pooled milk as reported by the Market Administrators divided by the simple average of the number of producers pooled each month during the year.

The annual gross value of all receipts of producer milk is the total value of all milk pooled for each respective year as reported by the Market Administrators.

**Reliability:** The AMS audit staff periodically perform on-site audits on the amounts of producer milk pooled to ensure accurate reporting of pool, utilization, and price information.



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## Information Contacts

Listed below are the specialists in the Agricultural Marketing Service, Dairy Program, Market Information Branch to contact for additional information. E-mail inquiries may be sent to [dpp@ams.usda.gov](mailto:dpp@ams.usda.gov).

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