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Dairy Products 2019 Summary

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Summary

Total cheese production, excluding cottage cheeses, was 13.1 billion pounds, 0.8 percent above 2018 production. Wisconsin was the leading State with 25.6 percent of the production.

Italian varieties, with 5.67 billion pounds was 1.8 percent above 2018 production and accounted for 43.2 percent of total cheese in 2019. Mozzarella accounted for 79.3 percent of the Italian production followed by Parmesan with 7.3 percent and Provolone with 6.8 percent. Wisconsin was the leading State in Italian cheese production with 30.0 percent of the production.

American type cheese production was 5.23 billion pounds, 0.4 percent below 2018 and accounted for 39.8 percent of total cheese in 2019. Wisconsin was the leading State in American type cheese production with 19.2 percent of the production.

Butter production in the United States during 2019 totaled 1.99 billion pounds, 1.3 percent above 2018. California was the leading state in Butter production with 29.8 percent of the production.

Dry milk powders (2019 United States production, comparisons in percentage with 2018)

Nonfat dry milk, human - 1.85 billion pounds, up 4.1 percent.

Skim milk powders - 573 million pounds, up 2.2 percent.

Whey products (2019 United States production, comparisons in percentage with 2018)

Dry whey, total - 978 million pounds, down 2.2 percent.

Lactose, human and animal - 1.23 billion pounds, up 6.0 percent.

Whey protein concentrate, total - 491 million pounds, down 4.5 percent.

Frozen products (2019 United States production, comparisons in percentage with 2018)

Ice cream, Regular (total) - 861 million gallons, up 1.1 percent.

Ice cream, Lowfat (total) - 465 million gallons, up 1.0 percent.

Sherbet (total) - 42.7 million gallons, up 11.6 percent.

Frozen Yogurt (total) - 62.1 million gallons, up 12.8 percent.

Dairy Products Production by Product and Month – United States: 2018

Products	Plants	January	February	March	April
	(number)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Butter	98	190,284	174,803	189,283	182,052
Cheese					
American types	269	448,130	406,178	443,177	444,278
Cheddar	247	331,943	301,180	320,162	319,067
Other American ¹	161	116,187	104,998	123,015	125,211
Blue and Gorgonzola	54	7,452	7,107	8,143	7,858
Brick	16	153	144	208	272
Cream and Neufchatel	38	71,932	63,932	72,774	68,434
Feta	46	9,667	9,693	11,188	12,035
Gouda	85	5,121	3,457	5,924	4,513
Hispanic	61	24,032	21,791	25,611	24,115
Italian types	218	478,552	432,404	487,497	461,746
Mozzarella	135	370,405	333,079	377,238	359,460
Parmesan	49	42,568	38,996	41,508	39,631
Provolone	40	32,633	29,285	33,826	34,496
Ricotta	56	22,783	20,695	23,068	17,565
Romano	27	4,612	4,654	5,433	4,679
Other Italian types	59	5,551	5,695	6,424	5,915
Muenster	41	15,129	13,945	14,909	15,861
Swiss	64	28,183	26,350	28,685	26,828
All other types	222	14,964	12,122	14,314	13,188
Total cheese ²	565	1,103,315	997,123	1,112,430	1,079,128
Cottage cheese, curd ³	51	32,658	31,539	36,009	33,347
Cottage cheese, creamed ⁴	54	27,933	27,261	32,655	29,410
Cottage cheese, lowfat ⁵	53	29,299	27,577	31,340	29,982
Sour cream	115	120,263	98,963	116,363	111,334
Yogurt, plain and flavored	162	377,755	382,586	396,866	364,076

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2018 (continued)

Products	May	June	July	August	September
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Butter	176,459	148,273	139,810	139,019	140,986
Cheese					
American types	442,953	429,073	440,934	435,381	424,027
Cheddar	318,571	312,783	325,130	311,957	297,629
Other American ¹	124,382	116,290	115,804	123,424	126,398
Blue and Gorgonzola	7,989	7,242	7,887	8,024	8,330
Brick	230	203	197	160	171
Cream and Neufchatel	67,467	74,650	73,530	85,203	78,516
Feta	12,707	11,960	12,601	10,565	10,018
Gouda	6,123	6,242	5,508	7,001	4,871
Hispanic	26,244	25,726	24,706	27,012	25,193
Italian types	460,870	450,725	462,507	453,182	450,671
Mozzarella	359,302	355,244	367,345	357,268	358,516
Parmesan	37,515	33,192	32,003	28,959	26,467
Provolone	34,396	32,809	34,606	35,501	34,374
Ricotta	17,897	17,448	17,290	21,045	20,738
Romano	5,087	5,197	5,177	4,224	3,842
Other Italian types	6,673	6,835	6,086	6,185	6,734
Muenster	16,849	16,032	17,954	16,009	15,793
Swiss	28,816	27,764	28,195	27,884	26,420
All other types	15,045	16,168	12,814	16,312	14,798
Total cheese ²	1,085,293	1,065,785	1,086,833	1,086,733	1,058,808
Cottage cheese, curd ³	36,366	34,342	34,705	36,296	33,003
Cottage cheese, creamed ⁴	32,320	31,006	30,114	31,920	27,141
Cottage cheese, lowfat ⁵	31,476	28,321	29,296	29,342	26,943
Sour cream	119,024	113,491	109,766	119,343	107,530
Yogurt, plain and flavored	379,081	377,822	365,813	401,516	375,412

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2018 (continued)

Products	October	November	December	Total	2018 as percent of 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)
Butter	155,041	155,389	176,871	1,968,270	6.5
Cheese					
American types ¹	457,116	434,188	448,327	5,253,762	3.6
Cheddar	323,208	313,988	326,106	3,801,724	2.2
Other American	133,908	120,200	122,221	1,452,038	7.5
Blue and Gorgonzola	8,376	7,441	8,744	94,593	3.6
Brick	190	198	148	2,274	-6.2
Cream and Neufchatel	95,019	85,805	77,562	914,824	-0.4
Feta	12,508	8,411	8,473	129,826	6.0
Gouda	6,135	6,372	3,989	65,256	-0.2
Hispanic	30,134	27,373	29,973	311,910	8.9
Italian types	483,621	469,001	478,765	5,569,541	3.2
Mozzarella	381,249	370,291	376,999	4,366,396	4.8
Parmesan	33,656	32,470	37,528	424,493	-5.8
Provolone	34,283	31,173	30,404	397,786	1.0
Ricotta	23,633	22,966	21,905	247,033	0.5
Romano	4,539	5,105	5,529	58,078	-0.4
Other Italian types	6,261	6,996	6,400	75,755	-4.2
Muenster	18,324	15,902	14,542	191,249	1.1
Swiss	27,390	27,888	27,906	332,309	4.9
All other types	15,140	13,223	13,744	171,832	(X)
Total cheese ²	1,153,953	1,095,802	1,112,173	13,037,376	3.1
Cottage cheese, curd ³	33,459	31,064	29,512	402,300	3.0
Cottage cheese, creamed ⁴	29,828	27,051	26,146	352,785	6.7
Cottage cheese, lowfat ⁵	28,706	25,181	24,621	342,084	-0.7
Sour cream	128,785	130,314	125,953	1,401,129	1.0
Yogurt, plain and flavored	368,385	314,766	348,550	4,452,628	-0.6

(X) Not applicable.

¹ Includes Cheddar, Colby, washed curd, stirred curd, Monterey, and Jack.

² Excludes cottage cheese.

³ Mostly used for processing into creamed or lowfat cottage cheese.

⁴ Fat content 4 percent or more.

⁵ Fat content less than 4 percent.

Dairy Products Production by Product and Month – United States: 2019

Products	Plants	January	February	March	April
	(number)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Butter	93	199,038	172,171	180,694	172,371
Cheese					
American types	265	451,964	399,112	442,723	430,539
Cheddar	241	336,801	289,258	315,229	306,510
Other American ¹	153	115,163	109,854	127,494	124,029
Blue and Gorgonzola	53	7,570	6,512	7,977	7,588
Brick	19	196	136	125	233
Cream and Neufchatel	33	73,015	63,388	79,212	70,516
Feta	50	9,456	10,037	11,479	12,413
Gouda	87	5,367	2,761	4,136	3,594
Hispanic	63	25,030	28,240	28,755	27,877
Italian types	215	483,211	440,425	493,275	475,467
Mozzarella	136	381,103	346,363	391,166	372,686
Parmesan	45	37,794	35,375	37,118	38,548
Provolone	43	31,651	30,183	30,873	33,053
Ricotta	58	21,599	18,320	22,352	19,824
Romano	28	4,096	4,000	4,301	4,631
Other Italian types	59	6,968	6,184	7,465	6,725
Muenster	40	18,026	14,717	14,681	16,694
Swiss	62	29,976	26,443	27,682	27,601
All other types	218	12,766	11,925	12,369	12,488
Total cheese ²	557	1,116,577	1,003,696	1,122,414	1,085,010
Cottage cheese, curd ³	54	34,101	31,700	33,388	34,505
Cottage cheese, creamed ⁴	54	30,354	28,399	29,846	30,945
Cottage cheese, lowfat ⁵	53	29,450	26,863	27,765	29,039
Sour cream	110	122,056	103,082	108,617	117,973
Yogurt, plain and flavored	161	369,301	375,622	399,699	379,341

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2019 (continued)

Products	May	June	July	August	September
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Butter	170,044	154,848	150,705	141,323	144,334
Cheese					
American types	443,683	427,638	434,449	452,030	415,687
Cheddar	321,122	307,403	305,911	321,190	284,142
Other American ¹	122,561	120,235	128,538	130,840	131,545
Blue and Gorgonzola	8,331	8,758	7,914	8,387	8,099
Brick	256	148	148	138	148
Cream and Neufchatel	72,309	71,339	79,986	85,171	86,328
Feta	12,585	11,539	11,570	10,948	10,710
Gouda	3,126	3,330	3,896	5,192	4,810
Hispanic	29,824	25,877	26,805	27,679	28,068
Italian types	474,522	461,688	463,865	466,578	470,642
Mozzarella	374,770	370,364	368,167	370,384	375,726
Parmesan	38,170	32,682	33,174	32,410	30,153
Provolone	32,436	31,166	33,498	33,216	33,468
Ricotta	18,244	16,645	17,800	19,418	20,130
Romano	4,452	4,676	4,328	4,007	4,148
Other Italian types	6,450	6,155	6,898	7,143	7,017
Muenster	17,911	16,601	17,562	15,585	15,516
Swiss	29,839	28,290	29,103	28,896	27,705
All other types	13,500	12,494	12,304	13,042	12,813
Total cheese ²	1,105,886	1,067,702	1,087,602	1,113,646	1,080,526
Cottage cheese, curd ³	32,004	31,947	36,978	34,227	31,108
Cottage cheese, creamed ⁴	29,312	28,265	32,350	31,495	29,488
Cottage cheese, lowfat ⁵	27,512	25,433	29,611	29,747	26,427
Sour cream	120,332	111,416	118,403	119,252	111,282
Yogurt, plain and flavored	354,516	364,013	348,614	377,322	381,495

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2019 (continued)

Products	October	November	December	Total	2019 as percent of 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)
Butter	162,921	161,852	183,774	1,994,075	1.3
Cheese					
American types ¹	445,601	432,438	456,378	5,232,242	-0.4
Cheddar	309,584	309,223	330,369	3,736,742	-1.7
Other American	136,017	123,215	126,009	1,495,500	3.0
Blue and Gorgonzola	9,270	7,668	6,648	94,722	0.1
Brick	175	197	113	2,013	-11.5
Cream and Neufchatel	89,440	85,127	79,176	935,007	2.2
Feta	11,074	8,365	9,820	129,996	0.1
Gouda	4,152	4,149	4,119	48,632	-25.5
Hispanic	30,543	27,890	26,441	333,029	6.8
Italian types	485,559	471,962	483,331	5,670,525	1.8
Mozzarella	384,612	375,266	383,976	4,494,583	2.9
Parmesan	32,349	30,314	33,962	412,049	-2.9
Provolone	34,272	30,150	30,084	384,050	-3.5
Ricotta	23,459	23,973	22,905	244,669	-1.0
Romano	5,169	5,545	5,281	54,634	-5.9
Other Italian types	5,698	6,714	7,123	80,540	6.3
Muenster	19,042	15,548	15,010	196,893	3.0
Swiss	29,136	26,100	27,534	338,305	1.8
All other types	14,249	13,953	13,976	155,879	(X)
Total cheese ²	1,138,241	1,093,397	1,122,546	13,137,243	0.8
Cottage cheese, curd ³	33,497	28,701	28,837	390,993	-2.8
Cottage cheese, creamed ⁴	31,956	27,025	28,427	357,862	1.4
Cottage cheese, lowfat ⁵	27,922	24,008	23,879	327,656	-4.2
Sour cream	133,320	129,785	130,139	1,425,657	1.8
Yogurt, plain and flavored	357,443	319,612	348,979	4,375,957	-1.7

(X) Not applicable.

¹ Includes Cheddar, Colby, washed curd, stirred curd, Monterey, and Jack.

² Excludes cottage cheese.

³ Mostly used for processing into creamed or lowfat cottage cheese.

⁴ Fat content 4 percent or more.

⁵ Fat content less than 4 percent.

Ice Cream Production by Product and Month – United States: 2018

Products	Plants	January	February	March	April
	(number)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
Frozen products					
Ice cream, regular, total	(NA)	63,233	66,228	74,792	75,322
Ice cream, regular, hard	405	54,326	56,869	63,905	64,212
Ice cream, lowfat, total ¹	(NA)	33,528	35,179	41,811	41,650
Ice cream, lowfat, hard	107	14,370	15,940	18,362	18,333
Ice cream, lowfat, soft	(NA)	19,158	19,239	23,449	23,317
Ice cream, nonfat, total	(NA)	982	847	1,333	1,025
Ice cream, nonfat, hard	40	616	531	913	696
Sherbet, total	(NA)	2,944	3,292	3,468	3,681
Sherbet, hard	132	2,718	3,019	3,234	3,440
Yogurt, total	(NA)	4,513	4,598	5,801	5,607
Yogurt, regular and lowfat, hard	89	1,460	1,214	2,046	1,773
Yogurt, nonfat, hard	47	357	527	727	531
Other frozen dairy products ²	56	1,991	1,651	1,896	2,219
Water and juice ices ²	111	4,245	5,166	6,523	6,549
Mix for frozen products					
Ice cream, regular, mix	253	31,163	32,909	36,841	38,011
Ice cream, lowfat, mix ³	147	16,622	17,553	22,343	21,801
Ice cream, nonfat, mix	46	531	452	712	565
Sherbet mix	101	1,823	2,081	2,120	2,253
Yogurt mix	101	2,514	2,551	3,227	3,029

See footnote(s) at end of table.

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Ice Cream Production by Product and Month – United States: 2018 (continued)

Products	May	June	July	August	September
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
Frozen products					
Ice cream, regular, total	77,971	83,994	82,355	83,232	66,752
Ice cream, regular, hard	65,898	70,882	69,341	70,763	56,965
Ice cream, lowfat, total ¹	43,229	46,639	43,444	43,083	36,015
Ice cream, lowfat, hard	17,583	20,049	18,325	19,238	17,137
Ice cream, lowfat, soft	25,646	26,590	25,119	23,845	18,878
Ice cream, nonfat, total	1,223	1,092	873	870	843
Ice cream, nonfat, hard	872	761	564	549	545
Sherbet, total	3,676	3,703	3,227	3,341	3,220
Sherbet, hard	3,403	3,439	2,983	3,098	2,951
Yogurt, total	5,192	5,646	4,430	4,356	4,037
Yogurt, regular and lowfat, hard	1,751	1,633	1,526	1,285	1,083
Yogurt, nonfat, hard	531	599	391	335	571
Other frozen dairy products ²	2,116	2,221	2,583	2,044	1,951
Water and juice ices ²	6,637	7,518	7,017	6,176	5,249
Mix for frozen products					
Ice cream, regular, mix	39,399	41,943	41,402	41,272	33,412
Ice cream, lowfat, mix ³	24,015	25,265	24,448	23,272	18,535
Ice cream, nonfat, mix	624	587	480	472	423
Sherbet mix	2,267	2,303	1,965	2,132	1,942
Yogurt mix	2,901	3,004	2,551	2,424	2,299

See footnote(s) at end of table.

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Ice Cream Production by Product and Month – United States: 2018 (continued)

Products	October	November	December	Total	2018 as percent of 2017
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)
Frozen products					
Ice cream, regular, total	70,829	56,338	51,243	852,289	-2.2
Ice cream, regular, hard	60,980	48,324	43,745	726,210	-0.7
Ice cream, lowfat, total ¹	37,800	30,404	27,366	460,148	-0.3
Ice cream, lowfat, hard	17,535	14,041	12,626	203,539	13.1
Ice cream, lowfat, soft	20,265	16,363	14,740	256,609	-8.8
Ice cream, nonfat, total	1,084	769	496	11,437	0.1
Ice cream, nonfat, hard	774	487	239	7,547	6.7
Sherbet, total	3,062	2,409	2,234	38,257	-11.0
Sherbet, hard	2,848	2,201	2,035	35,369	-8.3
Yogurt, total	3,512	4,025	3,355	55,072	-12.5
Yogurt, regular and lowfat, hard	1,196	1,074	1,269	17,310	-17.0
Yogurt, nonfat, hard	263	435	240	5,507	-20.9
Other frozen dairy products ²	2,009	1,050	1,018	22,749	0.9
Water and juice ices ²	4,746	4,411	2,962	67,199	3.8
Mix for frozen products					
Ice cream, regular, mix	34,999	28,223	25,545	425,119	-6.1
Ice cream, lowfat, mix ³	19,240	15,676	13,953	242,723	-0.2
Ice cream, nonfat, mix	593	425	286	6,150	-2.2
Sherbet mix	1,822	1,525	1,375	23,608	-9.5
Yogurt mix	2,026	2,097	2,010	30,633	-11.1

(NA) Not available.

¹ Includes freezer-made milkshake.

² Plant count does not include counter-freezers.

³ Includes milkshake mix.

Ice Cream Production by Product and Month – United States: 2019

Products	Plants	January	February	March	April
	(number)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
Frozen products					
Ice cream, regular, total	(NA)	65,131	64,238	79,537	78,929
Ice cream, regular, hard	407	53,064	53,369	65,957	64,681
Ice cream, lowfat, total ¹	(NA)	33,457	35,760	42,538	44,505
Ice cream, lowfat, hard	112	17,623	18,972	22,369	23,194
Ice cream, lowfat, soft	(NA)	15,834	16,788	20,169	21,311
Ice cream, nonfat, total	(NA)	729	801	1,091	908
Ice cream, nonfat, hard	40	466	581	800	632
Sherbet, total	(NA)	3,390	3,556	3,955	4,029
Sherbet, hard	127	2,437	2,700	3,225	3,067
Yogurt, total	(NA)	4,081	5,761	5,691	5,083
Yogurt, regular and lowfat, hard	86	1,122	1,202	1,557	1,407
Yogurt, nonfat, hard	41	238	462	445	561
Other frozen dairy products ²	53	1,669	1,722	2,825	1,686
Water and juice ices ²	104	4,191	5,276	6,703	6,777
Mix for frozen products					
Ice cream, regular, mix	248	35,696	32,205	39,918	40,670
Ice cream, lowfat, mix ³	148	15,841	16,339	20,358	22,462
Ice cream, nonfat, mix	41	438	449	575	405
Sherbet mix	102	1,623	1,929	2,207	2,036
Yogurt mix	94	2,201	2,417	2,689	2,585

See footnote(s) at end of table.

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Ice Cream Production by Product and Month – United States: 2019 (continued)

Products	May	June	July	August	September
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
Frozen products					
Ice cream, regular, total	82,559	79,379	80,074	77,935	70,156
Ice cream, regular, hard	67,414	64,920	64,846	64,242	58,155
Ice cream, lowfat, total ¹	47,873	44,364	43,582	42,021	37,206
Ice cream, lowfat, hard	24,680	22,034	21,281	20,596	19,478
Ice cream, lowfat, soft	23,193	22,330	22,301	21,425	17,728
Ice cream, nonfat, total	812	889	731	818	595
Ice cream, nonfat, hard	588	684	557	600	447
Sherbet, total	4,233	4,270	3,826	3,339	3,478
Sherbet, hard	3,191	3,166	2,795	2,382	2,703
Yogurt, total	6,491	5,641	5,722	7,963	4,522
Yogurt, regular and lowfat, hard	1,450	1,316	1,130	1,216	1,045
Yogurt, nonfat, hard	495	564	508	300	338
Other frozen dairy products ²	2,202	1,988	1,645	1,116	1,752
Water and juice ices ²	7,565	7,560	7,429	6,978	5,459
Mix for frozen products					
Ice cream, regular, mix	43,493	40,750	40,934	38,739	35,514
Ice cream, lowfat, mix ³	23,909	23,384	23,710	21,652	17,848
Ice cream, nonfat, mix	388	461	400	437	302
Sherbet mix	2,198	2,120	1,948	1,656	1,845
Yogurt mix	2,843	2,786	2,936	2,357	1,993

See footnote(s) at end of table.

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Ice Cream Production by Product and Month – United States: 2019 (continued)

Products	October	November	December	Total	2019 as percent of 2018
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)
Frozen products					
Ice cream, regular, total	70,694	56,547	56,316	861,495	1.1
Ice cream, regular, hard	58,581	46,927	47,039	709,195	-2.3
Ice cream, lowfat, total ¹	36,315	29,068	28,110	464,799	1.0
Ice cream, lowfat, hard	19,178	14,792	14,068	238,265	17.1
Ice cream, lowfat, soft	17,137	14,276	14,042	226,534	-11.7
Ice cream, nonfat, total	713	538	600	9,225	-19.3
Ice cream, nonfat, hard	546	417	444	6,762	-10.4
Sherbet, total	3,363	2,688	2,558	42,685	11.6
Sherbet, hard	2,445	2,053	2,056	32,220	-8.9
Yogurt, total	4,390	3,868	2,916	62,129	12.8
Yogurt, regular and lowfat, hard	852	1,022	973	14,292	-17.4
Yogurt, nonfat, hard	376	316	267	4,870	-11.6
Other frozen dairy products ²	1,346	582	1,119	19,652	-13.6
Water and juice ices ²	5,401	4,772	3,887	71,998	7.1
Mix for frozen products					
Ice cream, regular, mix	35,726	28,084	28,855	440,584	3.6
Ice cream, lowfat, mix ³	16,999	13,273	13,154	228,929	-5.7
Ice cream, nonfat, mix	361	294	285	4,795	-22.0
Sherbet mix	1,700	1,451	1,411	22,124	-6.3
Yogurt mix	1,883	1,566	1,479	27,735	-9.5

(NA) Not available.

¹ Includes freezer-made milkshake.

² Plant count does not include counter-freezers.

³ Includes milkshake mix.

Whey and Modified Whey Products Production, Stocks, and Prices by Month – United States: 2018

Products	Plants	January	February	March	April
	(number)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Production					
Condensed whey, solids content ¹					
Sweet type, human	11	7,713	8,390	9,433	9,354
Dry whey products					
Dry whey, human	30	89,023	88,674	89,855	84,502
Dry whey, animal	22	1,546	757	1,513	1,229
Dry whey, total	(NA)	90,569	89,431	91,368	85,731
Reduced lactose and minerals					
Human	3	1,895	1,413	2,401	2,258
Animal	3	3,042	2,633	2,753	3,148
Whey protein concentrate					
Human ²	48	43,969	40,834	49,286	41,518
Animal ²	18	288	348	1,177	369
Total ²	(NA)	44,257	41,182	50,463	41,887
25.0-49.9 percent ³	23	17,948	15,137	19,922	15,321
50.0-89.9 percent ³	35	26,309	26,045	30,541	26,566
Whey protein isolates ⁴	17	9,746	8,727	10,502	10,034
Lactose, human and animal	33	94,822	86,232	100,861	93,472
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	(NA)	84,085	87,246	74,924	66,424
Dry whey, animal	(NA)	1,176	1,452	1,087	2,277
Dry whey, total	(NA)	85,261	88,698	76,011	68,701
Reduced lactose and minerals					
Human and animal ⁶	(NA)	4,860	4,402	4,389	4,538
Whey protein concentrate					
Human ²	(NA)	83,916	79,675	77,863	74,922
Animal ²	(NA)	619	743	1,075	792
Total ²	(NA)	84,535	80,418	78,938	75,714
25.0-49.9 percent ³	(NA)	25,160	25,680	23,759	24,040
50.0-89.9 percent ³	(NA)	59,375	54,738	55,179	51,674
Whey protein isolates ⁴	(NA)	28,082	27,894	26,258	25,270
Lactose, human and animal	(NA)	122,295	113,005	110,984	104,950
	(number)	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)
Manufacturers' selling price ⁷					
Dry whey, animal	(NA)	10.2	14.8	12.7	13.2

See footnote(s) at end of table.

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**Whey and Modified Whey Products Production, Stocks, and Prices by Month – United States:
2018 (continued)**

Products	May	June	July	August	September
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Production					
Condensed whey, solids content ¹					
Sweet type, human	9,568	8,840	8,319	8,885	8,776
Dry whey products					
Dry whey, human	83,731	84,941	87,882	77,565	69,038
Dry whey, animal	2,173	1,662	2,289	1,249	913
Dry whey, total	85,904	86,603	90,171	78,814	69,951
Reduced lactose and minerals					
Human	2,743	1,788	1,337	1,852	1,943
Animal	2,872	2,608	3,288	2,776	2,690
Whey protein concentrate					
Human ²	42,054	40,664	40,499	42,322	41,017
Animal ²	370	337	378	534	974
Total ²	42,424	41,001	40,877	42,856	41,991
25.0-49.9 percent ³	15,295	14,873	16,868	17,514	15,910
50.0-89.9 percent ³	27,129	26,128	24,009	25,342	26,081
Whey protein isolates ⁴	9,452	10,438	10,646	9,408	10,447
Lactose, human and animal	96,204	95,874	98,603	97,273	91,391
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	66,472	66,849	75,131	71,514	67,847
Dry whey, animal	2,221	1,900	2,419	2,191	1,661
Dry whey, total	68,693	68,749	77,550	73,705	69,508
Reduced lactose and minerals					
Human and animal ⁶	4,384	4,054	4,255	3,822	3,930
Whey protein concentrate					
Human ²	69,856	64,364	58,863	61,901	59,863
Animal ²	775	749	1,860	939	905
Total ²	70,631	65,113	60,723	62,840	60,768
25.0-49.9 percent ³	20,255	20,078	17,968	20,915	20,078
50.0-89.9 percent ³	50,376	45,035	42,755	41,925	40,690
Whey protein isolates ⁴	25,933	25,917	26,181	31,635	25,915
Lactose, human and animal	105,669	102,065	88,250	86,164	81,631
	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)
Manufacturers' selling price ⁷					
Dry whey, animal	20.0	21.2	20.1	17.2	16.7

See footnote(s) at end of table.

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Whey and Modified Whey Products Production, Stocks, and Prices by Month – United States: 2018 (continued)

Products	October	November	December	Total	2018 as percent of 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)
Production					
Condensed whey, solids content ¹					
Sweet type, human	10,235	9,249	10,423	109,185	2.4
Dry whey products					
Dry whey, human	82,222	71,035	73,196	981,664	-2.5
Dry whey, animal	1,781	1,271	1,309	17,692	-37.4
Dry whey, total	84,003	72,306	74,505	999,356	-3.5
Reduced lactose and minerals					
Human	1,497	1,105	1,720	21,952	-21.6
Animal	3,519	3,046	2,616	34,991	6.8
Whey protein concentrate					
Human ²	42,016	40,681	43,064	507,924	5.4
Animal ²	376	220	658	6,029	-15.2
Total ²	42,392	40,901	43,722	513,953	5.1
25.0-49.9 percent ³	16,634	15,612	18,345	199,379	8.1
50.0-89.9 percent ³	25,758	25,289	25,377	314,574	3.3
Whey protein isolates ⁴	11,479	9,655	11,007	121,541	4.0
Lactose, human and animal	90,025	103,137	110,406	1,158,300	3.0
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	73,183	67,172	70,014	(X)	(X)
Dry whey, animal	1,145	1,023	926	(X)	(X)
Dry whey, total	74,328	68,195	70,940	(X)	(X)
Reduced lactose and minerals					
Human and animal ⁶	3,832	3,752	4,191	(X)	(X)
Whey protein concentrate					
Human ²	60,862	63,375	64,001	(X)	(X)
Animal ²	885	900	1,080	(X)	(X)
Total ²	61,747	64,275	65,081	(X)	(X)
25.0-49.9 percent ³	22,401	25,735	25,150	(X)	(X)
50.0-89.9 percent ³	39,346	38,540	39,931	(X)	(X)
Whey protein isolates ⁴	23,610	23,948	23,947	(X)	(X)
Lactose, human and animal	86,341	88,094	105,638	(X)	(X)
	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)	(percent)
Manufacturers' selling price ⁷					
Dry whey, animal	21.8	35.0	34.7	(X)	(X)

(NA) Not available.

(X) Not applicable.

¹ Final marketable product only. Does not include quantity used or shipped to another plant for further processing into dry whey or modified whey products. Does not include sweet-type, animal whey.

² Whey protein concentrate, 25.0 to 89.9 percent.

³ Whey protein concentrate, human and animal.

⁴ Whey protein isolate, 90.0 percent or greater.

⁵ Stocks held by manufacturers at all points and in transit.

⁶ Reduced lactose and minerals stocks combined to avoid disclosure of individual operations.

⁷ Prices for bulk goods, FOB plant. Average monthly prices reported by firms.

Whey and Modified Whey Products Production, Stocks, and Prices by Month – United States: 2019

Products	Plants	January	February	March	April
	(number)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Production					
Condensed whey, solids content ¹					
Sweet type, human	14	10,951	10,482	10,987	11,821
Dry whey products					
Dry whey, human	31	80,873	74,713	76,090	73,801
Dry whey, animal	23	1,892	1,433	1,288	1,197
Dry whey, total	(NA)	82,765	76,146	77,378	74,998
Reduced lactose and minerals					
Human	3	2,603	1,960	1,688	2,061
Animal	3	3,321	2,675	3,074	2,811
Whey protein concentrate					
Human ²	51	42,376	37,688	41,423	40,028
Animal ²	19	1,495	863	603	611
Total ²	(NA)	43,871	38,551	42,026	40,639
25.0-49.9 percent ³	23	18,226	14,560	14,502	15,949
50.0-89.9 percent ³	39	25,645	23,991	27,524	24,690
Whey protein isolates ⁴	20	11,737	10,183	10,151	9,460
Lactose, human and animal	33	112,832	98,231	114,157	108,057
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	(NA)	77,505	84,757	82,920	74,805
Dry whey, animal	(NA)	1,555	1,686	1,087	1,097
Dry whey, total	(NA)	79,060	86,443	84,007	75,902
Reduced lactose and minerals					
Human and animal ⁶	(NA)	5,013	5,008	5,161	5,702
Whey protein concentrate					
Human ²	(NA)	61,321	62,612	60,417	57,516
Animal ²	(NA)	1,335	1,198	897	859
Total ²	(NA)	62,656	63,810	61,314	58,375
25.0-49.9 percent ³	(NA)	27,783	29,077	26,672	24,209
50.0-89.9 percent ³	(NA)	34,873	34,733	34,642	34,166
Whey protein isolates ⁴	(NA)	22,773	20,745	20,441	20,107
Lactose, human and animal	(NA)	106,914	104,141	105,663	117,023
	(number)	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)
Manufacturers' selling price ⁷					
Dry whey, animal	(NA)	18.9	17.9	18.5	19.4

See footnote(s) at end of table.

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Whey and Modified Whey Products Production, Stocks, and Prices by Month – United States: 2019 (continued)

Products	May	June	July	August	September
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Production					
Condensed whey, solids content ¹					
Sweet type, human	12,086	10,752	10,359	9,816	8,511
Dry whey products					
Dry whey, human	77,939	81,722	80,892	83,767	89,602
Dry whey, animal	1,151	1,254	2,014	1,130	1,025
Dry whey, total	79,090	82,976	82,906	84,897	90,627
Reduced lactose and minerals					
Human	1,520	1,696	1,767	1,725	2,247
Animal	3,054	2,921	2,736	2,695	2,718
Whey protein concentrate					
Human ²	41,655	38,840	38,464	38,590	38,305
Animal ²	256	676	1,338	1,313	1,763
Total ²	41,911	39,516	39,802	39,903	40,068
25.0-49.9 percent ³	14,877	13,628	15,058	14,648	15,755
50.0-89.9 percent ³	27,034	25,888	24,744	25,255	24,313
Whey protein isolates ⁴	10,257	10,564	9,754	9,423	9,951
Lactose, human and animal	109,722	108,551	106,989	95,074	95,488
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	64,970	67,246	65,500	70,615	79,975
Dry whey, animal	979	1,068	2,135	1,998	2,621
Dry whey, total	65,949	68,314	67,635	72,613	82,596
Reduced lactose and minerals					
Human and animal ⁶	5,437	5,697	5,148	5,097	5,016
Whey protein concentrate					
Human ²	59,153	56,241	60,015	59,506	64,168
Animal ²	516	1,050	958	1,144	1,511
Total ²	59,669	57,291	60,973	60,650	65,679
25.0-49.9 percent ³	24,015	21,375	22,030	21,309	22,926
50.0-89.9 percent ³	35,654	35,916	38,943	39,341	42,753
Whey protein isolates ⁴	21,860	18,571	18,387	19,229	18,499
Lactose, human and animal	126,522	117,096	114,247	113,736	112,587
	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)
Manufacturers' selling price ⁷					
Dry whey, animal	22.1	21.6	24.3	19.6	22.4

See footnote(s) at end of table.

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Whey and Modified Whey Products Production, Stocks, and Prices by Month – United States: 2019 (continued)

Products	October	November	December	Total	2019 as percent of 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)
Production					
Condensed whey, solids content ¹					
Sweet type, human	9,633	10,653	10,215	126,266	15.6
Dry whey products					
Dry whey, human	89,778	73,920	78,695	961,792	-2.0
Dry whey, animal	1,065	1,191	1,126	15,766	-10.9
Dry whey, total	90,843	75,111	79,821	977,558	-2.2
Reduced lactose and minerals					
Human	1,511	1,365	1,640	21,783	-0.8
Animal	2,809	2,840	2,850	34,504	-1.4
Whey protein concentrate					
Human ²	39,428	39,863	42,585	479,245	-5.6
Animal ²	1,244	833	521	11,516	91.0
Total ²	40,672	40,696	43,106	490,761	-4.5
25.0-49.9 percent ³	13,979	14,212	16,021	181,415	-9.0
50.0-89.9 percent ³	26,693	26,484	27,085	309,346	-1.7
Whey protein isolates ⁴	9,675	9,321	9,422	119,898	-1.4
Lactose, human and animal	96,493	88,375	93,634	1,227,603	6.0
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	77,952	77,988	70,509	(X)	(X)
Dry whey, animal	1,504	1,063	858	(X)	(X)
Dry whey, total	79,456	79,051	71,367	(X)	(X)
Reduced lactose and minerals					
Human and animal ⁶	4,908	4,292	4,070	(X)	(X)
Whey protein concentrate					
Human ²	64,996	67,006	65,892	(X)	(X)
Animal ²	1,387	815	621	(X)	(X)
Total ²	66,383	67,821	66,513	(X)	(X)
25.0-49.9 percent ³	22,593	24,530	26,576	(X)	(X)
50.0-89.9 percent ³	43,790	43,291	39,937	(X)	(X)
Whey protein isolates ⁴	16,875	17,650	16,379	(X)	(X)
Lactose, human and animal	108,511	116,469	110,652	(X)	(X)
	(cents per pounds)	(cents per pounds)	(cents per pounds)	(cents per pounds)	(percent)
Manufacturers' selling price ⁷					
Dry whey, animal	18.5	13.6	19.9	(X)	(X)

(NA) Not available.

(X) Not applicable.

¹ Final marketable product only. Does not include quantity used or shipped to another plant for further processing into dry whey or modified whey products. Does not include sweet-type, animal whey.

² Whey protein concentrate, 25.0 to 89.9 percent.

³ Whey protein concentrate, human and animal.

⁴ Whey protein isolate, 90.0 percent or greater.

⁵ Stocks held by manufacturers at all points and in transit.

⁶ Reduced lactose and minerals stocks combined to avoid disclosure of individual operations.

⁷ Prices for bulk goods, FOB plant. Average monthly prices reported by firms.

Canned, Condensed, and Dry Milk Products Production, Stocks, Shipments, and Prices by Month – United States: 2018

Products	Plants	January	February	March	April
	(number)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Production					
Bulk condensed milk					
Skim, sweetened	7	11,073	7,442	16,765	10,286
Skim, unsweetened	42	108,833	112,184	133,721	131,409
Whole, sweetened	5	10,167	10,328	11,827	11,504
Whole, unsweetened	11	10,004	9,197	10,698	9,094
Condensed or evaporated buttermilk	16	12,597	11,412	13,337	13,743
Canned milk					
Evaporated and condensed whole ¹	7	37,328	30,213	28,156	33,140
Evaporated skim	3	1,140	399	668	746
Dry milk products					
Dry buttermilk, total	24	13,095	11,479	12,347	10,118
Dry skim milk, animal	28	720	1,521	1,018	1,349
Dry whole milk	13	9,689	17,804	21,876	13,912
Milk protein concentrate, total ²	14	14,222	10,747	13,654	16,352
Nonfat dry milk, human	56	161,635	156,683	176,444	169,809
Skim milk powder, total ³	19	41,890	35,658	39,654	49,968
Manufacturers' stocks end of month ⁴					
Canned milk					
Evaporated and condensed whole ¹	(NA)	51,472	48,558	49,050	53,147
Dry milk products					
Dry buttermilk, total	(NA)	25,068	25,453	25,933	23,177
Dry skim milk, animal	(NA)	2,425	2,949	2,925	3,353
Dry whole milk	(NA)	33,232	37,328	46,035	47,243
Nonfat dry milk, human	(NA)	300,828	296,991	297,296	273,346
Manufacturers' shipments ⁵					
Dry milk products					
Dry buttermilk, human	(NA)	9,430	10,429	10,400	12,449
Dry skim milk, animal	(NA)	671	1,400	1,385	1,223
Dry whole milk	(NA)	5,977	10,238	15,901	10,963
Nonfat dry milk, human	(NA)	145,779	146,156	165,149	181,206
Manufacturers' selling price ⁶					
Dry milk products					
Dry buttermilk, human	(NA)	69.6	69.0	69.3	64.5
Dry skim milk, animal	(NA)	48.9	54.8	56.8	58.3
Dry whole milk	(NA)	145.2	147.8	145.4	104.6

See footnote(s) at end of table.

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Canned, Condensed, and Dry Milk Products Production, Stocks, Shipments, and Prices by Month – United States: 2018 (continued)

Products	May	June	July	August	September
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Production					
Bulk condensed milk					
Skim, sweetened	8,067	8,120	9,842	7,529	7,853
Skim, unsweetened	140,407	138,432	143,739	138,462	120,080
Whole, sweetened	11,560	11,917	12,080	12,476	12,833
Whole, unsweetened	4,493	5,163	4,986	4,167	4,240
Condensed or evaporated buttermilk	10,351	8,979	9,602	7,992	8,708
Canned milk					
Evaporated and condensed whole ¹	33,961	30,438	34,033	24,904	36,212
Evaporated skim	480	1,639	1,061	1,149	2,429
Dry milk products					
Dry buttermilk, total	10,882	7,603	7,804	7,602	8,124
Dry skim milk, animal	1,407	1,757	1,325	1,271	895
Dry whole milk	25,411	11,439	8,559	9,603	5,779
Milk protein concentrate, total ²	17,545	17,613	9,175	9,277	10,020
Nonfat dry milk, human	166,086	152,403	151,093	128,619	114,295
Skim milk powder, total ³	50,763	59,377	47,498	47,558	46,694
Manufacturers' stocks end of month ⁴					
Canned milk					
Evaporated and condensed whole ¹	73,770	73,123	79,064	88,565	79,977
Dry milk products					
Dry buttermilk, total	18,768	14,946	13,750	12,120	12,218
Dry skim milk, animal	3,151	2,668	2,093	2,037	3,606
Dry whole milk	59,625	56,659	51,876	42,387	32,589
Nonfat dry milk, human	270,489	303,301	317,447	280,494	261,646
Manufacturers' shipments ⁵					
Dry milk products					
Dry buttermilk, human	13,003	10,050	9,234	8,377	7,761
Dry skim milk, animal	1,444	1,890	1,731	1,988	621
Dry whole milk	19,203	15,302	13,832	16,468	16,244
Nonfat dry milk, human	143,020	108,166	120,929	151,878	117,002
	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)
Manufacturers' selling price ⁶					
Dry milk products					
Dry buttermilk, human	68.9	65.2	75.6	78.2	80.9
Dry skim milk, animal	61.2	54.5	51.4	48.1	62.0
Dry whole milk	45.5	147.9	150.2	155.3	156.6

See footnote(s) at end of table.

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Canned, Condensed, and Dry Milk Products Production, Stocks, Shipments, and Prices by Month – United States: 2018 (continued)

Products	October	November	December	Total	2018 as percent of 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)
Production					
Bulk condensed milk					
Skim, sweetened	8,557	16,838	8,501	120,873	34.1
Skim, unsweetened	110,900	100,407	89,800	1,468,374	-6.5
Whole, sweetened	12,593	14,319	13,055	144,659	1.4
Whole, unsweetened	3,730	3,286	3,256	72,314	16.2
Condensed or evaporated buttermilk	8,863	8,601	8,740	122,925	8.7
Canned milk					
Evaporated and condensed whole ¹	41,663	39,999	42,552	412,599	8.8
Evaporated skim	1,501	2,931	1,001	15,144	65.4
Dry milk products					
Dry buttermilk, total	10,072	9,922	9,027	118,075	4.6
Dry skim milk, animal	754	659	1,339	14,015	18.2
Dry whole milk	5,831	6,418	7,773	144,094	17.7
Milk protein concentrate, total ²	8,722	9,928	10,067	147,322	6.0
Nonfat dry milk, human	122,287	134,764	143,385	1,777,503	-3.1
Skim milk powder, total ³	48,580	42,563	50,091	560,294	5.8
Manufacturers' stocks end of month ⁴					
Canned milk					
Evaporated and condensed whole ¹	64,953	43,053	42,112	(X)	(X)
Dry milk products					
Dry buttermilk, total	12,975	14,462	17,643	(X)	(X)
Dry skim milk, animal	4,068	3,872	16,155	(X)	(X)
Dry whole milk	18,733	17,559	15,573	(X)	(X)
Nonfat dry milk, human	252,648	289,429	276,641	(X)	(X)
Manufacturers' shipments ⁵					
Dry milk products					
Dry buttermilk, human	7,400	6,385	5,877	(X)	(X)
Dry skim milk, animal	1,323	1,051	1,944	(X)	(X)
Dry whole milk	17,919	7,920	7,786	(X)	(X)
Nonfat dry milk, human	118,658	104,510	170,344	(X)	(X)
	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)	(percent)
Manufacturers' selling price ⁶					
Dry milk products					
Dry buttermilk, human	84.4	85.1	88.6	(X)	(X)
Dry skim milk, animal	67.0	56.3	71.3	(X)	(X)
Dry whole milk	154.5	158.9	152.3	(X)	(X)

(NA) Not available.

(X) Not applicable.

¹ Combined to avoid disclosing individual plant operations.

² Dry milk protein concentrate, 40.0-89.9 percent.

³ Includes protein standardized and blends.

⁴ Stocks held by manufacturers at all points and in transit.

⁵ For dry products, shipments of bulk goods.

⁶ Prices for bulk goods, FOB plant. Average monthly prices reported by firms, weighted by shipments of each firm.

Canned, Condensed, and Dry Milk Products Production, Stocks, Shipments, and Prices by Month – United States: 2019

Products	Plants	January	February	March	April
	(number)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Production					
Bulk condensed milk					
Skim, sweetened	7	15,982	6,339	9,995	8,284
Skim, unsweetened	41	115,264	121,220	131,676	126,880
Whole, sweetened	5	14,665	10,885	11,551	19,246
Whole, unsweetened	10	13,159	6,172	7,579	5,594
Condensed or evaporated buttermilk	16	11,741	10,755	12,411	11,976
Canned milk					
Evaporated and condensed whole ¹	9	39,052	29,498	32,906	35,539
Evaporated skim	6	3,054	1,483	1,840	706
Dry milk products					
Dry buttermilk, total	23	13,521	9,668	9,979	10,239
Dry skim milk, animal	24	547	534	1,121	618
Dry whole milk	13	12,504	9,445	18,470	18,465
Milk protein concentrate, total ²	15	13,096	14,790	14,405	15,879
Nonfat dry milk, human	55	177,280	153,417	161,829	167,758
Skim milk powder, total ³	19	36,153	33,901	48,274	46,244
Manufacturers' stocks end of month ⁴					
Canned milk					
Evaporated and condensed whole ¹	(NA)	44,172	40,500	46,903	51,304
Dry milk products					
Dry buttermilk, total	(NA)	20,977	20,446	19,052	16,485
Dry skim milk, animal	(NA)	15,676	9,928	4,362	2,637
Dry whole milk	(NA)	17,772	18,329	30,318	38,146
Nonfat dry milk, human	(NA)	286,941	310,378	289,892	278,325
Manufacturers' shipments ⁵					
Dry milk products					
Dry buttermilk, human	(NA)	9,368	8,768	10,433	14,922
Dry skim milk, animal	(NA)	1,820	1,711	951	1,025
Dry whole milk	(NA)	10,204	8,041	14,638	16,798
Nonfat dry milk, human	(NA)	154,660	126,000	173,109	174,532
Manufacturers' selling price ⁶					
Dry milk products					
Dry buttermilk, human	(NA)	91.5	89.8	90.5	71.2
Dry skim milk, animal	(NA)	76.0	76.6	68.7	71.9
Dry whole milk	(NA)	157.3	165.0	174.9	131.3

See footnote(s) at end of table.

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Canned, Condensed, and Dry Milk Products Production, Stocks, Shipments, and Prices by Month – United States: 2019 (continued)

Products	May	June	July	August	September
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Production					
Bulk condensed milk					
Skim, sweetened	9,657	9,281	12,964	9,030	10,086
Skim, unsweetened	137,252	134,661	125,497	116,361	113,968
Whole, sweetened	12,962	11,172	11,442	12,096	9,781
Whole, unsweetened	5,485	5,223	4,955	5,921	6,075
Condensed or evaporated buttermilk	12,806	10,424	6,570	7,211	6,748
Canned milk					
Evaporated and condensed whole ¹	25,649	22,960	35,959	35,062	39,929
Evaporated skim	386	1,628	2,623	2,321	4,734
Dry milk products					
Dry buttermilk, total	10,108	8,354	9,857	8,047	8,847
Dry skim milk, animal	949	750	811	717	544
Dry whole milk	17,955	13,392	8,573	7,652	7,603
Milk protein concentrate, total ²	17,029	19,707	8,677	9,049	10,619
Nonfat dry milk, human	173,666	157,948	172,329	132,525	117,806
Skim milk powder, total ³	26,604	52,062	46,708	60,768	58,764
Manufacturers' stocks end of month ⁴					
Canned milk					
Evaporated and condensed whole ¹	59,501	57,811	65,613	71,566	64,708
Dry milk products					
Dry buttermilk, total	15,868	14,026	14,155	13,819	13,884
Dry skim milk, animal	1,875	3,417	3,820	3,628	3,135
Dry whole milk	41,473	39,884	34,705	24,953	21,782
Nonfat dry milk, human	290,092	291,181	292,077	269,590	250,846
Manufacturers' shipments ⁵					
Dry milk products					
Dry buttermilk, human	9,311	9,357	8,216	8,254	6,843
Dry skim milk, animal	1,430	998	1,625	1,597	1,742
Dry whole milk	11,167	13,276	11,496	19,144	12,569
Nonfat dry milk, human	157,845	141,846	173,434	143,556	121,785
	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)
Manufacturers' selling price ⁶					
Dry milk products					
Dry buttermilk, human	93.1	83.8	98.7	97.3	92.0
Dry skim milk, animal	73.0	63.3	80.6	86.6	84.6
Dry whole milk	166.0	172.9	173.8	172.2	163.3

See footnote(s) at end of table.

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Canned, Condensed, and Dry Milk Products Production, Stocks, Shipments, and Prices by Month – United States: 2019 (continued)

Products	October	November	December	Total	2019 as percent of 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)
Production					
Bulk condensed milk					
Skim, sweetened	9,866	8,132	8,921	118,537	-1.9
Skim, unsweetened	113,608	92,429	97,426	1,426,242	-2.9
Whole, sweetened	12,146	12,633	10,313	148,892	2.9
Whole, unsweetened	9,426	5,206	1,315	76,110	5.2
Condensed or evaporated buttermilk	6,537	6,884	6,306	110,369	-10.2
Canned milk					
Evaporated and condensed whole ¹	42,207	44,613	33,849	417,223	1.1
Evaporated skim	5,282	4,758	1,808	30,623	102.2
Dry milk products					
Dry buttermilk, total	8,905	8,885	11,850	118,260	0.2
Dry skim milk, animal	710	8,057	791	16,149	15.2
Dry whole milk	8,130	9,856	8,920	140,965	-2.2
Milk protein concentrate, total ²	13,529	10,310	14,693	161,783	9.8
Nonfat dry milk, human	132,716	138,880	164,869	1,851,023	4.1
Skim milk powder, total ³	47,386	50,955	64,893	572,712	2.2
Manufacturers' stocks end of month ⁴					
Canned milk					
Evaporated and condensed whole ¹	51,562	38,947	35,948	(X)	(X)
Dry milk products					
Dry buttermilk, total	12,413	14,954	17,426	(X)	(X)
Dry skim milk, animal	6,521	15,597	12,572	(X)	(X)
Dry whole milk	18,701	15,917	12,113	(X)	(X)
Nonfat dry milk, human	217,923	222,623	247,428	(X)	(X)
Manufacturers' shipments ⁵					
Dry milk products					
Dry buttermilk, human	9,357	6,376	8,570	(X)	(X)
Dry skim milk, animal	1,793	1,923	2,331	(X)	(X)
Dry whole milk	8,843	15,585	13,337	(X)	(X)
Nonfat dry milk, human	151,222	140,180	125,424	(X)	(X)
	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)	(percent)
Manufacturers' selling price ⁶					
Dry milk products					
Dry buttermilk, human	97.5	106.0	100.1	(X)	(X)
Dry skim milk, animal	62.5	78.4	68.7	(X)	(X)
Dry whole milk	171.3	169.4	175.3	(X)	(X)

(NA) Not available.

(X) Not applicable.

¹ Combined to avoid disclosing individual plant operations.

² Dry milk protein concentrate, 40.0-89.9 percent.

³ Includes protein standardized and blends.

⁴ Stocks held by manufacturers at all points and in transit.

⁵ For dry products, shipments of bulk goods.

⁶ Prices for bulk goods, FOB plant. Average monthly prices reported by firms, weighted by shipments of each firm.

Total Cheese (Excluding Cottage Cheese) Production by Month – States, United States, and Regions: 2019 and Total 2018-2019

State and region	2019							
	January (1,000 pounds)	February (1,000 pounds)	March (1,000 pounds)	April (1,000 pounds)	May (1,000 pounds)	June (1,000 pounds)	July (1,000 pounds)	August (1,000 pounds)
California	213,585	200,325	215,504	212,241	217,948	203,714	210,588	212,668
Idaho	86,686	71,559	89,724	83,842	78,308	86,081	87,086	88,378
Illinois	6,803	6,433	6,323	6,934	7,102	7,070	6,699	6,798
Iowa	29,106	26,923	28,733	26,244	27,946	26,361	26,419	27,580
Minnesota	65,282	56,830	62,679	59,391	64,284	61,203	60,482	60,178
New Jersey	5,483	3,806	4,892	4,641	4,348	3,994	4,668	4,518
New Mexico	79,984	71,203	79,426	79,104	81,835	76,984	76,696	90,535
New York	72,504	61,515	72,329	68,406	67,033	65,762	71,964	70,357
Ohio	18,154	16,358	18,958	18,750	19,486	18,175	19,033	19,426
Oregon	18,121	16,158	18,196	17,748	17,999	17,212	17,479	17,207
Pennsylvania	38,026	30,732	38,519	36,199	35,104	34,610	36,173	35,146
South Dakota	26,895	22,697	25,076	25,542	27,539	28,764	28,966	30,127
Vermont	12,842	11,101	12,254	11,902	12,347	11,371	11,681	12,546
Wisconsin	282,697	260,799	293,214	279,687	285,842	278,804	277,279	280,903
Other States ¹	160,409	147,257	156,587	154,379	158,765	147,597	152,389	157,279
United States	1,116,577	1,003,696	1,122,414	1,085,010	1,105,886	1,067,702	1,087,602	1,113,646
Atlantic	138,680	117,365	138,982	131,869	129,685	126,290	135,083	133,909
Central	509,024	463,317	511,558	491,147	508,624	493,352	493,608	500,645
West	468,873	423,014	471,874	461,994	467,577	448,060	458,911	479,092

State and region	2019					2018		
	September (1,000 pounds)	October (1,000 pounds)	November (1,000 pounds)	December (1,000 pounds)	Total (1,000 pounds)	Plants (number)	Total (1,000 pounds)	Plants (number)
California	203,831	215,850	217,544	217,503	2,541,301	57	2,543,368	61
Idaho	83,625	86,836	77,093	88,847	1,008,065	9	991,239	9
Illinois	6,269	7,033	6,131	6,849	80,444	12	82,288	11
Iowa	27,091	29,564	28,671	29,294	333,932	11	296,396	11
Minnesota	58,035	60,373	58,324	63,351	730,412	12	740,601	11
New Jersey	5,032	5,737	5,271	5,415	57,805	14	71,675	14
New Mexico	76,619	81,107	80,443	82,565	956,501	4	895,781	4
New York	71,151	73,426	69,475	68,288	832,210	65	802,275	62
Ohio	18,751	20,185	19,014	20,526	226,816	19	239,267	19
Oregon	17,502	18,234	16,955	18,332	211,143	8	209,829	8
Pennsylvania	34,490	38,317	35,382	39,483	432,181	43	433,748	46
South Dakota	30,592	34,521	33,044	33,912	347,675	7	293,455	7
Vermont	11,888	12,290	12,384	12,539	145,145	39	146,942	40
Wisconsin	280,489	288,573	279,521	276,055	3,363,863	127	3,422,961	129
Other States ¹	155,161	166,195	154,145	159,587	1,869,750	130	1,867,551	133
United States	1,080,526	1,138,241	1,093,397	1,122,546	13,137,243	557	13,037,376	565
Atlantic	133,137	140,673	133,685	136,795	1,596,153	228	1,582,777	229
Central	497,207	523,598	499,688	508,067	5,999,835	230	6,000,383	233
West	450,182	473,970	460,024	477,684	5,541,255	99	5,454,216	103

¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Total American Type Cheese Production by Month – States, United States, and Regions: 2019 and Total 2018-2019

[Includes Cheddar, Colby, washed curd, stirred curd, Monterey, and Jack]

State and region	2019							
	January	February	March	April	May	June	July	August
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
California	49,074	48,391	54,444	49,750	50,787	49,098	49,627	50,897
Idaho	51,639	45,407	52,639	51,005	53,180	51,508	53,609	62,460
Iowa	16,782	15,225	16,105	15,880	17,098	16,717	17,271	17,510
Minnesota	52,921	45,442	49,844	47,096	53,414	51,594	51,617	49,894
New York	12,209	10,889	12,437	12,427	12,077	12,638	12,133	11,701
Oregon	18,007	16,040	18,078	17,626	17,874	17,099	17,385	17,087
Wisconsin	89,236	79,393	86,142	84,209	85,582	82,633	80,919	79,096
Other States ¹	162,096	138,325	153,034	152,546	153,671	146,351	151,888	163,385
United States	451,964	399,112	442,723	430,539	443,683	427,638	434,449	452,030
Atlantic	29,849	25,598	29,397	28,367	28,784	28,208	28,092	28,832
Central	229,126	203,255	217,985	213,153	219,633	213,321	214,916	209,326
West	192,989	170,259	195,341	189,019	195,266	186,109	191,441	213,872

State and region	2019						2018	
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(number)	(1,000 pounds)	(number)
California	46,711	48,426	49,042	50,225	596,472	18	630,164	18
Idaho	47,539	52,177	48,602	53,302	623,067	5	625,427	5
Iowa	16,394	17,475	17,997	18,777	203,231	8	182,094	8
Minnesota	48,185	51,134	51,739	55,373	608,253	9	622,884	8
New York	10,930	10,596	11,855	11,722	141,614	24	139,560	25
Oregon	17,414	18,129	16,865	18,252	209,856	6	208,767	6
Wisconsin	78,554	85,719	83,554	88,045	1,003,082	70	1,025,840	72
Other States ¹	149,960	161,945	152,784	160,682	1,846,667	125	1,819,026	127
United States	415,687	445,601	432,438	456,378	5,232,242	265	5,253,762	269
Atlantic	26,595	26,443	28,371	28,319	336,855	93	332,017	96
Central	206,837	226,110	216,701	230,451	2,600,814	128	2,637,349	129
West	182,255	193,048	187,366	197,608	2,294,573	44	2,284,396	44

¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed

Cheddar Cheese Production by Month – States, United States, and Regions: 2019 and Total 2018-2019

State and region	2019							
	January	February	March	April	May	June	July	August
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
California	31,289	26,495	31,130	27,389	26,135	26,063	22,668	25,050
Iowa	8,778	8,780	7,965	8,893	10,026	8,553	8,881	9,912
Minnesota	51,493	44,369	48,919	45,357	51,812	50,271	49,850	48,265
Oregon	13,434	12,200	13,583	14,982	14,489	15,137	14,866	14,051
Vermont	8,954	7,821	8,856	8,310	8,694	8,051	8,198	8,444
Wisconsin	66,475	57,691	62,900	60,451	60,428	58,635	56,808	55,420
Other States ¹	156,378	131,902	141,876	141,128	149,538	140,693	144,640	160,048
United States	336,801	289,258	315,229	306,510	321,122	307,403	305,911	321,190
Atlantic	28,052	24,612	27,913	26,780	27,098	26,601	26,553	26,976
Central	172,365	151,700	158,272	154,734	162,775	155,051	155,126	149,300
West	136,384	112,946	129,044	124,996	131,249	125,751	124,232	144,914

State and region	2019					2018		
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(number)	(1,000 pounds)	(number)
California	22,278	21,954	24,347	24,362	309,160	17	334,647	18
Iowa	8,061	7,756	9,035	9,750	106,390	8	113,652	8
Minnesota	46,655	49,015	50,105	53,584	589,695	8	589,107	8
Oregon	14,324	14,755	14,474	15,626	171,921	6	172,478	6
Vermont	8,151	8,428	8,645	8,861	101,413	12	101,153	13
Wisconsin	54,084	58,510	59,130	62,063	712,595	69	714,774	71
Other States ¹	130,589	149,166	143,487	156,123	1,745,568	121	1,775,913	123
United States	284,142	309,584	309,223	330,369	3,736,742	241	3,801,724	247
Atlantic	25,242	25,097	26,665	27,207	318,796	78	314,268	82
Central	141,910	157,458	153,170	162,695	1,874,556	121	1,905,876	122
West	116,990	127,029	129,388	140,467	1,543,390	42	1,581,580	43

¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Other American Varieties of Cheese Production by Month – States, United States, and Regions: 2019 and Total 2018-2019

[Includes Colby, washed curd, stirred curd, Monterey, and Jack]

State and region	2019							
	January	February	March	April	May	June	July	August
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
California	17,785	21,896	23,314	22,361	24,652	23,035	26,959	25,847
Iowa	8,004	6,445	8,140	6,987	7,072	8,164	8,390	7,598
Minnesota	1,428	1,073	925	1,739	1,602	1,323	1,767	1,629
Wisconsin	22,761	21,702	23,242	23,758	25,154	23,998	24,111	23,676
Other States ¹	65,185	58,738	71,873	69,184	64,081	63,715	67,311	72,090
United States	115,163	109,854	127,494	124,029	122,561	120,235	128,538	130,840
Atlantic	1,797	986	1,484	1,587	1,686	1,607	1,539	1,856
Central	56,761	51,555	59,713	58,419	56,858	58,270	59,790	60,026
West	56,605	57,313	66,297	64,023	64,017	60,358	67,209	68,958

State and region	2019					2018		
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(number)	(1,000 pounds)	(number)
California	24,433	26,472	24,695	25,863	287,312	10	295,517	12
Iowa	8,333	9,719	8,962	9,027	96,841	4	68,442	4
Minnesota	1,530	2,119	1,634	1,789	18,558	5	33,777	4
Wisconsin	24,470	27,209	24,424	25,982	290,487	47	311,066	48
Other States ¹	72,779	70,498	63,500	63,348	802,302	87	743,236	93
United States	131,545	136,017	123,215	126,009	1,495,500	153	1,452,038	161
Atlantic	1,353	1,346	1,706	1,112	18,059	49	17,749	53
Central	64,927	68,652	63,531	67,756	726,258	82	731,473	83
West	65,265	66,019	57,978	57,141	751,183	22	702,816	25

¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Total Italian Cheese Production by Month – States, United States, and Regions: 2019 and Total 2018-2019

State and region	2019							
	January (1,000 pounds)	February (1,000 pounds)	March (1,000 pounds)	April (1,000 pounds)	May (1,000 pounds)	June (1,000 pounds)	July (1,000 pounds)	August (1,000 pounds)
California	143,499	134,214	141,298	141,529	143,915	135,961	140,150	141,621
Idaho	27,969	21,811	31,228	26,651	18,960	28,783	26,614	20,264
Minnesota	12,162	11,097	12,611	11,935	10,443	9,287	8,505	9,921
New Jersey	3,220	2,006	2,677	2,503	2,089	1,837	2,525	2,281
New York	31,589	26,982	31,649	29,181	29,306	28,885	28,713	29,597
Pennsylvania	22,956	19,786	22,755	22,405	22,848	22,378	22,650	21,755
Wisconsin	145,167	133,498	150,765	143,299	144,933	140,159	140,978	141,800
Other States ¹	96,649	91,031	100,292	97,964	102,028	94,398	93,730	99,339
United States	483,211	440,425	493,275	475,467	474,522	461,688	463,865	466,578
Atlantic	59,971	52,952	61,052	58,253	57,942	57,133	57,671	57,311
Central	193,156	176,508	198,664	190,416	193,165	186,168	186,323	190,276
West	230,084	210,965	233,559	226,798	223,415	218,387	219,871	218,991

State and region	2019						2018	
	September (1,000 pounds)	October (1,000 pounds)	November (1,000 pounds)	December (1,000 pounds)	Total (1,000 pounds)	Plants (number)	Total (1,000 pounds)	Plants (number)
California	135,780	144,078	148,208	147,258	1,697,511	34	1,648,851	31
Idaho	30,259	28,352	23,719	30,982	315,592	4	291,128	4
Minnesota	9,498	8,847	6,279	7,732	118,317	5	114,577	6
New Jersey	2,939	3,365	3,051	3,247	31,740	10	47,383	10
New York	28,759	32,220	31,307	29,054	357,242	17	359,242	18
Pennsylvania	20,947	21,508	20,961	22,436	263,385	15	265,723	17
Wisconsin	141,705	141,900	137,252	137,485	1,698,941	59	1,729,627	59
Other States ¹	100,755	105,289	101,185	105,137	1,187,797	71	1,113,010	73
United States	470,642	485,559	471,962	483,331	5,670,525	215	5,569,541	218
Atlantic	56,716	61,573	59,627	58,942	699,143	81	720,345	86
Central	191,871	192,162	184,485	187,529	2,270,723	86	2,250,243	86
West	222,055	231,824	227,850	236,860	2,700,659	48	2,598,953	46

¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Mozzarella Cheese Production by Month – States, United States, and Regions: 2019 and Total 2018-2019

State and region	2019							
	January (1,000 pounds)	February (1,000 pounds)	March (1,000 pounds)	April (1,000 pounds)	May (1,000 pounds)	June (1,000 pounds)	July (1,000 pounds)	August (1,000 pounds)
California	131,424	122,464	131,630	128,888	133,006	125,939	126,782	131,290
Idaho	27,194	21,364	30,541	25,909	18,435	28,036	26,098	19,859
New Jersey	1,505	1,167	1,344	1,323	1,246	1,115	1,430	1,268
New York	16,970	14,080	17,178	15,703	15,853	16,789	15,565	15,227
Pennsylvania	20,093	16,868	19,685	18,484	19,563	18,964	19,417	18,307
Wisconsin	95,210	86,657	99,987	93,250	94,873	93,990	93,080	93,279
Other States ¹	88,707	83,763	90,801	89,129	91,794	85,531	85,795	91,154
United States	381,103	346,363	391,166	372,686	374,770	370,364	368,167	370,384
Atlantic	39,793	34,813	39,816	37,196	38,257	39,166	38,744	37,186
Central	125,407	113,872	129,763	123,277	126,381	125,059	124,707	126,618
West	215,903	197,678	221,587	212,213	210,132	206,139	204,716	206,580

State and region	2019					2018		
	September (1,000 pounds)	October (1,000 pounds)	November (1,000 pounds)	December (1,000 pounds)	Total (1,000 pounds)	Plants (number)	Total (1,000 pounds)	Plants (number)
California	126,313	134,159	137,800	136,533	1,566,228	28	1,503,572	26
Idaho	29,546	27,971	23,094	30,327	308,374	3	281,712	3
New Jersey	1,532	1,759	1,516	1,416	16,621	7	33,270	8
New York	15,492	15,631	15,894	14,575	188,957	15	189,652	13
Pennsylvania	17,411	17,813	17,705	18,712	223,022	7	228,879	8
Wisconsin	91,452	90,963	88,847	88,775	1,110,363	37	1,138,200	37
Other States ¹	93,980	96,316	90,410	93,638	1,081,018	39	991,111	40
United States	375,726	384,612	375,266	383,976	4,494,583	136	4,366,396	135
Atlantic	37,423	37,972	37,969	36,600	454,935	44	477,642	45
Central	127,611	126,167	121,937	123,234	1,494,033	55	1,460,851	55
West	210,692	220,473	215,360	224,142	2,545,615	37	2,427,903	35

¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Total Italian Cheese Production by Type – United States: 2018 and 2019

Type	2018	2019	2018 as percent of 2019
	(1,000 pounds)	(1,000 pounds)	(percent)
Hard			
Provolone and similars	397,786	384,050	-3.5
Romano and similars	58,078	54,634	-5.9
Parmesan and similars	424,493	412,049	-2.9
Other hard	48,894	53,353	9.1
Total hard	929,251	904,086	-2.7
Soft			
Mozzarella and similars	4,366,396	4,494,583	2.9
Ricotta and similars	247,033	244,669	-1.0
Other soft	26,861	27,187	1.2
Total soft	4,640,290	4,766,439	2.7
Total hard and soft	5,569,541	5,670,525	1.8

Total Italian Cheese Production by Type – Regions and United States: 2018 and 2019

Region	Hard types		Soft types		Total	
	2018	2019	2018	2019	2018	2019
	(1,000 lbs)	(1,000 lbs)	(1,000 lbs)	(1,000 lbs)	(1,000 lbs)	(1,000 lbs)
Atlantic	102,761	104,181	617,584	594,962	720,345	699,143
Central	662,111	652,606	1,588,132	1,618,117	2,250,243	2,270,723
West	164,379	147,299	2,434,574	2,553,360	2,598,953	2,700,659
United States	929,251	904,086	4,640,290	4,766,439	5,569,541	5,670,525

Miscellaneous Italian Cheese Production – States and United States: 2018 and 2019

State	Provolone		Romano		Parmesan	
	2018	2019	2018	2019	2018	2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Wisconsin	213,659	208,042	32,817	29,168	218,743	223,017
Other States ¹	184,127	176,008	25,261	25,466	205,750	189,032
United States	397,786	384,050	58,078	54,634	424,493	412,049

¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Swiss Cheese Production by Month – States and United States: 2019 and Total 2018-2019

State	2019							
	January	February	March	April	May	June	July	August
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Ohio	13,096	11,698	13,261	13,182	14,118	12,825	13,564	13,162
Pennsylvania	694	629	685	700	764	745	712	655
Wisconsin	1,700	1,255	1,309	1,231	1,084	1,284	1,409	1,525
Other States ¹	14,486	12,861	12,427	12,488	13,873	13,436	13,418	13,554
United States	29,976	26,443	27,682	27,601	29,839	28,290	29,103	28,896

State	2019						2018	
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(number)	(1,000 pounds)	(number)
Ohio	12,388	13,136	12,038	13,015	155,483	13	162,739	13
Pennsylvania	520	597	621	755	8,077	10	8,972	9
Wisconsin	1,468	1,782	1,578	1,349	16,974	9	17,377	11
Other States ¹	13,329	13,621	11,863	12,415	157,771	30	143,221	31
United States	27,705	29,136	26,100	27,534	338,305	62	332,309	64

¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Hispanic Cheese Production by Month – States and United States: 2019 and Total 2018-2019

State	2019							
	January	February	March	April	May	June	July	August
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
California	12,098	10,362	12,113	12,099	12,492	10,170	12,019	12,108
Wisconsin	7,116	7,582	8,534	8,239	8,840	7,960	8,570	8,607
Other States ¹	5,816	10,296	8,108	7,539	8,492	7,747	6,216	6,964
United States	25,030	28,240	28,755	27,877	29,824	25,877	26,805	27,679

State	2019						2018	
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(number)	(1,000 pounds)	(number)
California	12,933	13,052	11,262	11,817	142,525	13	144,524	13
Wisconsin	7,913	9,020	7,874	7,987	98,242	16	93,395	15
Other States ¹	7,222	8,471	8,754	6,637	92,262	34	73,991	33
United States	28,068	30,543	27,890	26,441	333,029	63	311,910	61

¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Muenster Cheese Production by Month – States and United States: 2019 and Total 2018-2019

State	2019							
	January	February	March	April	May	June	July	August
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Wisconsin	5,699	5,097	4,753	5,355	6,035	5,142	5,105	5,278
Other States ¹	12,327	9,620	9,928	11,339	11,876	11,459	12,457	10,307
United States	18,026	14,717	14,681	16,694	17,911	16,601	17,562	15,585
State	2019						2018	
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(number)	(1,000 pounds)	(number)
Wisconsin	5,095	5,670	5,195	5,413	63,837	20	61,871	20
Other States ¹	10,421	13,372	10,353	9,597	133,056	20	129,378	21
United States	15,516	19,042	15,548	15,010	196,893	40	191,249	41

¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Processed Cheeses and Combinations Production – United States: 2010-2019

Year	Processed cheese ¹		Processed cheese foods and spreads ²	
	Plants	Production	Plants	Production
	(number)	(1,000 pounds)	(number)	(1,000 pounds)
2010	26	1,146,634	25	925,068
2011	26	1,183,092	25	935,978
2012	28	1,211,689	25	874,474
2013	27	1,200,849	23	822,652
2014	28	1,445,066	22	905,293
2015	26	1,488,683	27	873,337
2016	30	1,630,801	24	654,996
2017	30	1,751,137	23	596,506
2018	27	1,783,805	23	572,213
2019	27	1,604,486	23	740,492
Year	Cold pack cheese and cheese foods ²		Total	
	Plants	Production	Plants	Production
	(number)	(1,000 pounds)	(number)	(1,000 pounds)
2010	15	38,463	47	2,110,165
2011	14	39,121	46	2,158,191
2012	15	44,518	48	2,130,681
2013	16	43,407	47	2,066,908
2014	15	44,205	47	2,394,564
2015	15	37,893	48	2,399,913
2016	13	30,619	47	2,316,416
2017	14	34,605	50	2,382,248
2018	14	30,443	48	2,386,461
2019	13	30,247	47	2,375,225

¹ Processed cheese is made by pasteurizing, emulsifying, and blending natural cheese and contains no other ingredients.

² Processed cheese foods, spreads, and cold pack contain additional ingredients such as nonfat milk solids, condiments, etc. These data exclude spreads made from Neufchatel and Cream Cheese.

Lowfat Cottage Cheese Production by Month – States, United States, and Regions: 2019 and Total 2018-2019

[Fat content less than 4 percent]

State and region	2019							
	January	February	March	April	May	June	July	August
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Colorado	688	609	698	765	629	694	717	816
New York	8,188	7,937	7,486	8,636	8,029	7,180	8,549	8,058
Ohio	1,108	1,081	1,199	1,213	1,132	1,068	1,363	1,454
Other States ¹	19,466	17,236	18,382	18,425	17,722	16,491	18,982	19,419
United States	29,450	26,863	27,765	29,039	27,512	25,433	29,611	29,747
Atlantic	8,634	8,297	7,920	9,004	8,436	7,525	8,944	8,463
Central	10,738	9,832	10,396	10,543	10,136	9,591	10,690	11,227
West	10,078	8,734	9,449	9,492	8,940	8,317	9,977	10,057

State and region	2019						2018	
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(number)	(1,000 pounds)	(number)
Colorado	647	697	759	675	8,394	3	9,479	3
New York	7,401	8,372	6,883	7,220	93,939	6	89,418	6
Ohio	1,183	1,168	1,363	1,508	14,840	6	12,271	5
Other States ¹	17,196	17,685	15,003	14,476	210,483	38	230,916	39
United States	26,427	27,922	24,008	23,879	327,656	53	342,084	53
Atlantic	7,810	8,694	7,239	7,516	98,482	10	94,529	10
Central	9,952	10,399	9,105	8,795	121,404	24	128,356	24
West	8,665	8,829	7,664	7,568	107,770	19	119,199	19

¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Creamed Cottage Cheese Production by Month – States, United States, and Regions: 2019 and Total 2018-2019

[Fat content more than 4 percent]

State and region	2019							
	January	February	March	April	May	June	July	August
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Colorado	470	430	519	562	451	558	635	579
Illinois	3,701	3,674	3,682	3,816	3,824	3,719	4,000	3,978
New York	7,669	7,992	7,776	8,225	8,324	7,726	8,797	8,314
Ohio	2,608	2,449	2,698	2,742	2,618	2,650	3,011	3,902
Oregon	293	257	289	308	293	288	327	329
Other States ¹	15,613	13,597	14,882	15,292	13,802	13,324	15,580	14,393
United States	30,354	28,399	29,846	30,945	29,312	28,265	32,350	31,495
Atlantic	8,728	8,804	8,666	9,095	9,192	8,572	9,741	9,051
Central	15,713	14,323	15,158	15,804	14,624	14,292	16,285	16,698
West	5,913	5,272	6,022	6,046	5,496	5,401	6,324	5,746

State and region	2019					2018		
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(number)	(1,000 pounds)	(number)
Colorado	496	559	522	444	6,225	3	6,685	3
Illinois	3,949	3,763	3,649	3,607	45,362	4	46,487	4
New York	7,619	8,688	6,965	8,028	96,123	7	90,216	7
Ohio	3,879	4,167	3,385	3,077	37,186	6	29,304	5
Oregon	328	280	265	281	3,538	4	1,452	3
Other States ¹	13,217	14,499	12,239	12,990	169,428	30	178,641	32
United States	29,488	31,956	27,025	28,427	357,862	54	352,785	54
Atlantic	8,316	9,639	7,568	8,790	106,162	10	100,891	10
Central	15,746	16,083	14,139	14,030	182,895	25	181,932	25
West	5,426	6,234	5,318	5,607	68,805	19	69,962	19

¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Cottage Cheese Curd Production by Month – States, United States, and Regions: 2019 and Total 2018-2019

[Mostly used for processing into fully creamed or lowfat cottage cheese. Cottage cheese curd and creamed and lowfat cottage cheese should not be added together to obtain total production]

State and region	2019							
	January	February	March	April	May	June	July	August
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	2,934	2,892	2,942	3,017	2,967	2,919	3,101	3,117
New York	9,107	9,033	8,797	9,637	9,368	8,357	9,630	9,181
Ohio	1,743	1,797	2,010	2,007	1,850	1,933	2,247	2,871
Oregon	309	277	307	280	294	272	293	323
Other States ¹	20,008	17,701	19,332	19,564	17,525	18,466	21,707	18,735
United States	34,101	31,700	33,388	34,505	32,004	31,947	36,978	34,227
Atlantic	10,265	9,957	9,833	10,627	10,299	9,236	10,712	9,978
Central	15,314	14,011	15,189	15,123	14,111	14,060	15,764	16,039
West	8,522	7,732	8,366	8,755	7,594	8,651	10,502	8,210

State and region	2019					2018		
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(number)	(1,000 pounds)	(number)
Illinois	3,086	2,943	2,818	2,831	35,567	3	45,454	4
New York	9,054	9,648	8,012	8,215	108,039	9	104,780	8
Ohio	2,423	2,679	2,430	2,345	26,335	6	22,093	5
Oregon	306	269	247	267	3,444	4	2,098	3
Other States ¹	16,239	17,958	15,194	15,179	217,608	32	227,875	31
United States	31,108	33,497	28,701	28,837	390,993	54	402,300	51
Atlantic	9,910	10,594	8,758	9,046	119,215	12	117,176	11
Central	14,355	15,010	13,227	12,691	174,894	24	190,732	25
West	6,843	7,893	6,716	7,100	96,884	18	94,392	15

¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Sour Cream Production by Month – States, United States, and Regions: 2019 and Total 2018-2019

State and region	2019							
	January (1,000 pounds)	February (1,000 pounds)	March (1,000 pounds)	April (1,000 pounds)	May (1,000 pounds)	June (1,000 pounds)	July (1,000 pounds)	August (1,000 pounds)
California	13,521	12,453	13,160	15,471	15,870	12,946	15,533	15,974
Illinois	3,476	2,986	2,940	3,275	3,178	3,311	3,098	3,272
New York	24,931	17,291	21,612	21,670	23,705	20,969	21,633	21,774
Ohio	23,046	19,691	20,458	21,677	22,337	22,044	23,034	23,714
Oregon	1,799	1,277	1,606	1,317	1,328	1,489	1,244	1,346
Pennsylvania	109	111	133	139	138	189	146	142
Other States ¹	55,174	49,273	48,708	54,424	53,776	50,468	53,715	53,030
United States	122,056	103,082	108,617	117,973	120,332	111,416	118,403	119,252
Atlantic	27,721	19,904	24,185	25,017	26,751	23,698	24,729	24,811
Central	62,684	56,868	56,434	60,988	60,741	58,878	61,106	62,856
West	31,651	26,310	27,998	31,968	32,840	28,840	32,568	31,585

State and region	2019					2018		
	September (1,000 pounds)	October (1,000 pounds)	November (1,000 pounds)	December (1,000 pounds)	Total (1,000 pounds)	Plants (number)	Total (1,000 pounds)	Plants (number)
California	14,157	15,956	15,545	15,177	175,763	19	192,729	21
Illinois	3,131	3,279	3,770	3,140	38,856	4	43,887	5
New York	20,282	26,261	23,896	25,814	269,838	14	267,578	13
Ohio	22,699	26,974	27,591	27,213	280,478	10	224,198	10
Oregon	1,179	1,911	1,723	1,513	17,732	5	16,922	6
Pennsylvania	116	122	100	135	1,580	6	1,570	8
Other States ¹	49,718	58,817	57,160	57,147	641,410	52	654,245	52
United States	111,282	133,320	129,785	130,139	1,425,657	110	1,401,129	115
Atlantic	22,802	29,686	27,095	28,732	305,131	31	302,637	32
Central	59,377	69,230	68,897	67,573	745,632	42	708,184	43
West	29,103	34,404	33,793	33,834	374,894	37	390,308	40

¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed

Butter Production by Month – States, United States, and Regions: 2019 and Total 2018-2019

State and region	2019							
	January	February	March	April	May	June	July	August
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
California	52,857	48,521	55,353	54,591	51,890	45,524	45,294	43,552
New York	2,495	2,759	2,540	2,835	2,651	2,543	1,471	1,233
Pennsylvania	8,842	7,310	7,652	7,323	7,969	6,894	6,857	6,096
Other States ¹	134,844	113,581	115,149	107,622	107,534	99,887	97,083	90,442
United States	199,038	172,171	180,694	172,371	170,044	154,848	150,705	141,323
Atlantic	20,885	17,736	17,170	16,837	17,490	14,824	12,637	11,282
Central	84,226	69,229	69,798	62,478	64,571	59,583	57,305	53,643
West	93,927	85,206	93,726	93,056	87,983	80,441	80,763	76,398

State and region	2019						2018	
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(number)	(1,000 pounds)	(number)
California	44,225	48,963	48,711	55,582	595,063	11	578,624	12
New York	1,602	1,699	1,959	2,681	26,468	9	24,696	11
Pennsylvania	7,154	7,786	7,974	8,907	90,764	6	86,062	6
Other States ¹	91,353	104,473	103,208	116,604	1,281,780	67	1,278,888	69
United States	144,334	162,921	161,852	183,774	1,994,075	93	1,968,270	98
Atlantic	12,689	14,033	14,328	19,238	189,149	38	186,828	39
Central	53,827	64,528	64,291	69,264	772,743	32	777,638	35
West	77,818	84,360	83,233	95,272	1,032,183	23	1,003,804	24

¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Yogurt (Plain and Flavored) Production by Month – States, United States, and Regions: 2019 and Total 2018-2019

State and region	2019							
	January	February	March	April	May	June	July	August
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
California	35,942	33,367	34,198	35,590	31,024	26,804	27,009	32,037
New York	56,807	56,848	56,888	59,431	58,081	54,006	58,509	66,383
Texas	2,777	2,963	2,911	3,122	3,244	2,988	3,348	3,680
Other States ¹	273,775	282,444	305,702	281,198	262,167	280,215	259,748	275,222
United States	369,301	375,622	399,699	379,341	354,516	364,013	348,614	377,322
Atlantic	111,801	111,034	114,091	108,040	107,193	97,858	101,758	109,124
Central	160,951	158,340	176,580	162,185	143,762	170,529	152,793	160,776
West	96,549	106,248	109,028	109,116	103,561	95,626	94,063	107,422
State and region	2019						2018	
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(number)	(1,000 pounds)	(number)
California	31,078	31,509	26,950	26,466	371,974	20	415,150	20
New York	55,721	50,337	48,814	57,363	679,188	37	691,044	37
Texas	3,322	3,651	2,590	3,173	37,769	3	31,569	3
Other States ¹	291,374	271,946	241,258	261,977	3,287,026	101	3,314,865	102
United States	381,495	357,443	319,612	348,979	4,375,957	161	4,452,628	162
Atlantic	104,304	94,053	88,417	101,005	1,248,678	87	1,337,492	86
Central	174,999	164,663	148,205	157,933	1,931,716	37	1,848,181	38
West	102,192	98,727	82,990	90,041	1,195,563	37	1,266,955	38

¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Unsweetened Condensed Skim Milk Bulk Production by Month – States, United States, and Regions: 2019 and Total 2018-2019

State and region	2019							
	January (1,000 pounds)	February (1,000 pounds)	March (1,000 pounds)	April (1,000 pounds)	May (1,000 pounds)	June (1,000 pounds)	July (1,000 pounds)	August (1,000 pounds)
California	25,068	24,216	20,820	19,852	23,742	20,577	21,603	22,671
New York	6,124	5,693	6,894	8,299	10,181	10,601	10,139	10,175
Other States ¹	84,072	91,311	103,962	98,729	103,329	103,483	93,755	83,515
United States	115,264	121,220	131,676	126,880	137,252	134,661	125,497	116,361
Atlantic	25,660	27,499	28,168	28,249	31,320	31,003	30,585	29,641
Central	55,665	60,598	74,928	70,940	71,147	73,550	64,530	57,772
West	33,939	33,123	28,580	27,691	34,785	30,108	30,382	28,948
State and region	2019						2018	
	September (1,000 pounds)	October (1,000 pounds)	November (1,000 pounds)	December (1,000 pounds)	Total (1,000 pounds)	Plants (number)	Total (1,000 pounds)	Plants (number)
California	20,280	21,415	15,612	14,395	250,251	9	289,208	10
New York	8,480	10,499	5,293	6,357	98,735	5	95,289	5
Other States ¹	85,208	81,694	71,524	76,674	1,077,256	27	1,083,877	27
United States	113,968	113,608	92,429	97,426	1,426,242	41	1,468,374	42
Atlantic	27,636	27,920	22,137	23,054	332,872	12	351,768	12
Central	59,062	57,913	48,774	53,343	748,222	14	746,688	14
West	27,270	27,775	21,518	21,029	345,148	15	369,918	16

¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Nonfat Dry Milk (Human) Production by Month – States, United States, and Regions: 2019 and Total 2018-2019

State and region	2019							
	January (1,000 pounds)	February (1,000 pounds)	March (1,000 pounds)	April (1,000 pounds)	May (1,000 pounds)	June (1,000 pounds)	July (1,000 pounds)	August (1,000 pounds)
California	65,802	61,538	68,561	69,211	65,716	44,623	57,205	39,673
Pennsylvania	14,255	14,119	15,560	16,005	17,518	16,344	15,127	13,838
Other States ¹	97,223	77,760	77,708	82,542	90,432	96,981	99,997	79,014
United States	177,280	153,417	161,829	167,758	173,666	157,948	172,329	132,525
Atlantic	31,160	27,146	31,201	35,413	37,102	34,879	28,929	26,570
Central	36,429	30,480	27,719	28,073	33,633	33,458	37,544	31,120
West	109,691	95,791	102,909	104,272	102,931	89,611	105,856	74,835
State and region	2019						2018	
	September (1,000 pounds)	October (1,000 pounds)	November (1,000 pounds)	December (1,000 pounds)	Total (1,000 pounds)	Plants (number)	Total (1,000 pounds)	Plants (number)
California	39,027	48,168	44,918	57,055	661,497	13	587,059	12
Pennsylvania	12,720	13,278	14,629	18,042	181,435	4	181,158	6
Other States ¹	66,059	71,270	79,333	89,772	1,008,091	38	1,009,286	38
United States	117,806	132,716	138,880	164,869	1,851,023	55	1,777,503	56
Atlantic	23,787	26,282	24,401	33,701	360,571	12	361,793	14
Central	22,868	23,526	31,027	29,212	365,089	17	332,169	17
West	71,151	82,908	83,452	101,956	1,125,363	26	1,083,541	25

¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Dry Buttermilk (Total) Production by Month – States and United States: 2019 and Total 2018-2019

State	2019							
	January	February	March	April	May	June	July	August
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
California	4,404	4,404	5,423	5,643	5,061	4,755	4,491	4,421
Other States ¹	9,117	5,264	4,556	4,596	5,047	3,599	5,366	3,626
United States	13,521	9,668	9,979	10,239	10,108	8,354	9,857	8,047
State	2019						2018	
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(number)	(1,000 pounds)	(number)
California	4,069	4,897	4,532	5,247	57,347	7	52,820	6
Other States ¹	4,778	4,008	4,353	6,603	60,913	16	65,255	18
United States	8,847	8,905	8,885	11,850	118,260	23	118,075	24

¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Dry Whey (Human) Production by Month – States, United States, and Regions: 2019 and Total 2018-2019

State and region	2019							
	January	February	March	April	May	June	July	August
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
New York	12,176	9,932	8,871	11,596	11,714	12,259	11,758	11,467
Wisconsin	22,157	21,519	24,711	21,475	24,684	26,049	23,521	24,465
Other States ¹	46,540	43,262	42,508	40,730	41,541	43,414	45,613	47,835
United States	80,873	74,713	76,090	73,801	77,939	81,722	80,892	83,767
Atlantic	22,454	18,735	19,363	21,781	22,139	22,552	23,396	21,821
Central	31,769	30,566	34,516	31,073	35,017	37,548	35,938	38,483
West	26,650	25,412	22,211	20,947	20,783	21,622	21,558	23,463
State and region	2019						2018	
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(number)	(1,000 pounds)	(number)
New York	11,250	10,473	11,179	10,854	133,529	5	143,474	5
Wisconsin	24,380	23,789	22,443	26,638	285,831	9	319,747	10
Other States ¹	53,972	55,516	40,298	41,203	542,432	17	518,443	15
United States	89,602	89,778	73,920	78,695	961,792	31	981,664	30
Atlantic	22,024	20,776	20,793	21,206	257,040	8	257,423	7
Central	37,979	37,477	35,357	40,207	425,930	15	448,554	16
West	29,599	31,525	17,770	17,282	278,822	8	275,687	7

¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Ice Cream, Regular (Hard) Production by Month – States, United States, and Regions: 2019 and Total 2018-2019

[Contains minimum milkfat content of 10 percent and not less than 4.5 pounds per gallon]

State and region	2019							
	January	February	March	April	May	June	July	August
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
California	4,290	4,799	6,196	5,854	6,655	5,521	5,790	6,753
Connecticut	946	1,021	1,130	1,104	1,160	1,094	1,176	1,249
Missouri	1,945	3,058	3,403	3,020	3,115	3,337	2,801	3,179
New Jersey	80	83	88	94	95	99	105	101
New York	2,085	1,931	2,116	2,486	2,566	2,193	2,536	2,497
Ohio	2,139	1,673	2,011	2,065	2,643	2,450	2,874	2,613
Oregon	1,236	979	1,307	1,457	1,483	1,242	1,398	1,211
Pennsylvania	2,828	2,809	3,351	3,458	4,592	3,426	3,913	3,650
Tennessee	1,813	1,861	2,011	2,349	952	1,753	1,924	2,176
Utah	1,478	2,276	1,927	2,218	2,222	2,050	1,671	1,682
Wisconsin	540	632	759	989	1,157	1,174	1,373	940
Other States ¹	33,684	32,247	41,658	39,587	40,774	40,581	39,285	38,191
United States	53,064	53,369	65,957	64,681	67,414	64,920	64,846	64,242
Atlantic	12,242	12,630	14,258	13,826	14,897	13,152	14,478	14,812
Central	31,952	30,698	40,062	39,017	39,879	40,846	39,155	37,462
West	8,870	10,041	11,637	11,838	12,638	10,922	11,213	11,968
State and region	2019					2018		
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(number)	(1,000 gallons)	(number)
California	5,261	5,845	3,868	3,137	63,969	22	73,877	21
Connecticut	1,121	1,339	1,213	788	13,341	17	12,758	17
Missouri	2,927	2,745	2,237	1,424	33,191	5	37,350	5
New Jersey	95	88	81	79	1,088	28	1,183	27
New York	2,115	2,108	1,559	1,374	25,566	28	29,546	29
Ohio	2,159	2,484	1,862	1,766	26,739	30	27,984	30
Oregon	994	1,103	1,005	1,150	14,565	6	14,380	7
Pennsylvania	3,070	2,782	3,618	3,347	40,844	33	37,583	33
Tennessee	1,668	1,712	1,705	1,569	21,493	3	22,704	3
Utah	1,730	1,901	1,571	1,205	21,931	9	29,667	9
Wisconsin	655	586	546	517	9,868	28	9,799	27
Other States ¹	36,360	35,888	27,662	30,683	436,600	198	429,379	197
United States	58,155	58,581	46,927	47,039	709,195	407	726,210	405
Atlantic	12,694	13,282	12,334	10,715	159,320	199	160,788	198
Central	35,296	34,017	26,998	29,585	424,967	154	422,648	154
West	10,165	11,282	7,595	6,739	124,908	54	142,774	53

¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Ice Cream Mix, Regular Production by Month – States, United States, and Regions: 2019 and Total 2018-2019

State and region	2019							
	January	February	March	April	May	June	July	August
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
California	3,407	3,742	4,870	4,859	5,131	4,542	4,763	5,216
Connecticut	1,363	1,357	1,895	2,028	1,589	1,714	1,750	1,499
Illinois	5,789	2,243	2,615	2,779	5,028	2,906	3,007	1,861
Indiana	1,690	1,514	1,753	1,669	1,614	1,469	1,710	1,703
Missouri	2,010	2,569	2,736	2,503	2,597	2,708	2,439	2,629
New Jersey	210	275	343	484	427	472	441	411
New York	1,242	1,158	1,088	1,295	1,515	1,154	1,503	1,452
Ohio	1,032	860	1,091	1,135	1,361	1,324	1,494	1,378
Oregon	644	550	733	836	817	711	781	668
Pennsylvania	1,460	1,398	2,002	1,873	2,245	1,844	2,067	2,416
Wisconsin	684	613	803	1,017	1,138	1,128	1,344	1,038
Other States ¹	16,165	15,926	19,989	20,192	20,031	20,778	19,635	18,468
United States	35,696	32,205	39,918	40,670	43,493	40,750	40,934	38,739
Atlantic	7,834	7,720	9,450	9,651	9,381	9,238	9,851	9,926
Central	21,828	17,859	22,551	22,769	25,590	23,837	23,087	20,561
West	6,034	6,626	7,917	8,250	8,522	7,675	7,996	8,252
State and region	2019						2018	
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(number)	(1,000 gallons)	(number)
California	3,702	4,169	3,115	2,758	50,274	27	55,732	23
Connecticut	1,301	1,392	1,323	1,113	18,324	8	5,572	7
Illinois	2,420	2,709	1,718	2,009	35,084	10	28,162	11
Indiana	1,375	1,653	1,115	986	18,251	8	22,085	8
Missouri	2,501	2,413	2,155	1,749	29,009	6	26,965	7
New Jersey	365	330	203	238	4,199	6	3,394	7
New York	1,299	1,243	953	695	14,597	13	15,803	15
Ohio	1,127	1,265	919	899	13,885	15	14,188	15
Oregon	566	611	547	612	8,076	6	7,776	7
Pennsylvania	1,577	1,874	1,733	1,591	22,080	22	21,100	22
Wisconsin	771	771	616	634	10,557	11	10,785	14
Other States ¹	18,510	17,296	13,687	15,571	216,248	116	213,557	117
United States	35,514	35,726	28,084	28,855	440,584	248	425,119	253
Atlantic	8,146	8,609	7,459	6,566	103,831	85	90,329	86
Central	20,756	19,701	15,300	17,443	251,282	105	240,382	114
West	6,612	7,416	5,325	4,846	85,471	58	94,408	53

¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Ice Cream, Lowfat (Total) Production by Month – States, United States and Regions: 2019 and Total 2018-2019

[Includes hard, soft-serve, and freezer-made milkshake. Contains less than 10 percent milkfat required for ice cream]

State and region	2019						
	January	February	March	April	May	June	July
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
California	2,562	3,397	3,570	3,996	3,945	3,660	3,709
Illinois	1,354	1,836	2,347	2,326	2,405	1,963	1,993
Ohio	1,541	1,711	1,798	1,846	2,145	1,959	1,814
Pennsylvania	689	662	726	839	915	875	844
Texas	2,308	1,689	2,304	2,168	2,319	2,185	2,659
Other States ¹	25,003	26,465	31,793	33,330	36,144	33,722	32,563
United States	33,457	35,760	42,538	44,505	47,873	44,364	43,582
Atlantic	5,473	6,083	7,247	7,661	7,109	7,112	7,697
Central	23,264	24,035	29,145	29,513	33,527	30,530	29,179
West	4,720	5,642	6,146	7,331	7,237	6,722	6,706
State and region	2019						2018
	August	September	October	November	December	Total	Total
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
California	3,916	3,411	3,505	2,844	1,321	39,836	39,231
Illinois	2,012	1,908	1,974	1,396	1,558	23,072	24,356
Ohio	1,876	1,632	1,468	1,139	1,211	20,140	27,617
Pennsylvania	1,004	832	648	632	676	9,342	8,644
Texas	2,077	1,877	1,747	1,092	1,514	23,939	21,961
Other States ¹	31,136	27,546	26,973	21,965	21,830	348,470	338,339
United States	42,021	37,206	36,315	29,068	28,110	464,799	460,148
Atlantic	7,647	6,408	6,997	5,422	5,065	79,921	89,716
Central	27,584	24,770	22,902	19,435	20,101	313,985	298,732
West	6,790	6,028	6,416	4,211	2,944	70,893	71,700

¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Ice Cream Mix, Lowfat Production by Month – States, United States, and Regions: 2019 and Total 2018-2019

[Includes milkshake mix]

State and region	2019							
	January	February	March	April	May	June	July	August
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
California	1,390	1,753	1,929	2,194	2,188	2,090	2,068	2,037
Indiana	1,396	1,429	1,562	1,627	1,300	1,404	1,255	1,460
Massachusetts	81	81	145	168	168	189	199	186
Michigan	1,430	1,518	2,159	2,864	3,247	3,063	3,357	2,716
Ohio	451	430	617	775	940	858	923	807
Pennsylvania	332	337	343	506	568	535	558	603
Texas	759	573	815	771	832	804	936	764
Utah	108	113	106	145	184	156	113	80
Other States ¹	9,894	10,105	12,682	13,412	14,482	14,285	14,301	12,999
United States	15,841	16,339	20,358	22,462	23,909	23,384	23,710	21,652
Atlantic	2,692	3,115	3,489	3,507	3,689	3,518	4,103	3,846
Central	10,599	10,232	13,460	14,999	16,228	16,111	15,865	14,189
West	2,550	2,992	3,409	3,956	3,992	3,755	3,742	3,617

State and region	2019					2018			
	September	October	November	December	Total	Plants	Total	Plants	
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(number)	(1,000 gallons)	(number)	
California	1,718	1,831	1,431	889	21,518	19	22,344	15	
Indiana	1,067	1,395	924	841	15,660	7	15,726	7	
Massachusetts	124	102	72	65	1,580	3	2,617	4	
Michigan	1,722	1,581	939	1,029	25,625	7	18,766	8	
Ohio	696	493	341	399	7,730	11	8,294	11	
Pennsylvania	445	368	307	309	5,211	9	4,382	10	
Texas	672	632	408	549	8,515	8	7,761	9	
Utah	108	154	153	151	1,571	4	1,161	4	
Other States ¹	11,296	10,443	8,698	8,922	141,519	80	161,672	79	
United States	17,848	16,999	13,273	13,154	228,929	148	242,723	147	
Atlantic	2,972	3,137	2,427	2,320	38,815	40	47,737	40	
Central	11,702	10,491	8,710	9,070	151,656	65	155,181	69	
West	3,174	3,371	2,136	1,764	38,458	43	39,805	38	

¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Sherbet (Hard) Production by Month – United States and Regions: 2019 and Total 2018-2019

State and region	2019							
	January	February	March	April	May	June	July	August
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
United States	2,437	2,700	3,225	3,067	3,191	3,166	2,795	2,382
Atlantic	559	587	637	672	673	633	594	517
Central	1,317	1,421	1,710	1,581	1,610	1,733	1,464	1,284
West	561	692	878	814	908	800	737	581
State and region	2019						2018	
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(number)	(1,000 gallons)	(number)
United States	2,703	2,445	2,053	2,056	32,220	127	35,369	132
Atlantic	538	557	425	483	6,875	50	7,719	54
Central	1,455	1,323	1,177	1,353	17,428	51	19,230	50
West	710	565	451	220	7,917	26	8,420	28

Sherbet Mix Production by Month – States, United States and Regions: 2019 and Total 2018-2019

State and region	2019							
	January	February	March	April	May	June	July	August
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
California	93	134	136	141	171	164	202	151
Ohio	88	89	86	94	169	100	124	105
Pennsylvania	27	50	66	89	75	76	59	61
Texas	77	75	105	55	60	35	70	54
Utah	45	122	74	59	67	57	64	42
Wisconsin	6	13	10	9	12	23	29	9
Other States ¹	1,287	1,446	1,730	1,589	1,644	1,665	1,400	1,234
United States	1,623	1,929	2,207	2,036	2,198	2,120	1,948	1,656
Atlantic	338	404	424	423	431	385	386	363
Central	938	1,059	1,250	1,086	1,204	1,236	1,077	926
West	347	466	533	527	563	499	485	367
State and region	2019						2018	
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(number)	(1,000 gallons)	(number)
California	129	168	99	42	1,630	8	1,727	10
Ohio	136	86	84	59	1,220	8	1,283	8
Pennsylvania	57	60	41	37	698	8	604	8
Texas	51	83	62	53	780	6	1,065	5
Utah	58	64	64	28	744	5	1,049	5
Wisconsin	17	8	13	7	156	4	201	4
Other States ¹	1,397	1,231	1,088	1,185	16,896	63	17,679	61
United States	1,845	1,700	1,451	1,411	22,124	102	23,608	101
Atlantic	349	404	293	293	4,493	32	4,648	33
Central	1,030	929	867	976	12,578	45	13,544	42
West	466	367	291	142	5,053	25	5,416	26

¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Frozen Yogurt Mix Production by Month – United States and Regions: 2019 and Total 2018-2019

State and region	2019						
	January	February	March	April	May	June	July
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
United States	2,201	2,417	2,689	2,585	2,843	2,786	2,936
Atlantic	261	463	492	544	482	539	479
Central	703	762	869	854	870	773	908
West	1,237	1,192	1,328	1,187	1,491	1,474	1,549
State and region	2019						2018
	August	September	October	November	December	Total	Total
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
United States	2,357	1,993	1,883	1,566	1,479	27,735	30,633
Atlantic	585	525	334	257	268	5,229	4,292
Central	747	542	603	559	543	8,733	10,609
West	1,025	926	946	750	668	13,773	15,732

Water and Juice Ices Production by Month – United States and Regions: 2019 and Total 2018-2019

[Does not include counter-freezer production]

State and region	2019							
	January	February	March	April	May	June	July	August
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
United States	4,191	5,276	6,703	6,777	7,565	7,560	7,429	6,978
Atlantic	1,540	2,065	2,486	2,573	3,283	3,085	3,448	2,916
Central	2,160	2,492	3,063	3,127	3,256	3,481	3,087	3,101
West	491	719	1,154	1,077	1,026	994	894	961
State and region	2019						2018	
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(number)	(1,000 gallons)	(number)
United States	5,459	5,401	4,772	3,887	71,998	104	67,199	111
Atlantic	2,060	1,897	1,875	1,365	28,593	53	26,518	52
Central	2,599	2,671	2,192	2,058	33,287	36	30,977	43
West	800	833	705	464	10,118	15	9,704	16

Other Frozen Dairy Products Production by Month – United States and Regions: 2019 and Total 2018-2019

State and region	2019							
	January	February	March	April	May	June	July	August
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
United States	1,669	1,722	2,825	1,686	2,202	1,988	1,645	1,116
Atlantic	159	610	1,069	380	380	399	334	327
Central	1,427	1,057	1,671	1,223	1,709	1,464	1,173	631
West	83	55	85	83	113	125	138	158
State and region	2019						2018	
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(number)	(1,000 gallons)	(number)
United States	1,752	1,346	582	1,119	19,652	53	22,749	56
Atlantic	307	687	160	155	4,967	27	4,567	31
Central	1,389	540	374	899	13,557	22	16,994	22
West	56	119	48	65	1,128	4	1,188	3

Dairy Plants Manufacturing One or More Dairy Products – States, United States, and Region: 2015-2019

State and	2015	2016	2017	2018	2019
	(number)	(number)	(number)	(number)	(number)
Alabama	4	4	4	4	4
Alaska	1	1	1	-	-
Arizona	8	8	8	8	8
Arkansas	1	1	1	1	1
California	117	118	113	115	114
Colorado	7	7	7	8	8
Connecticut	27	28	28	28	28
Delaware	6	7	7	6	7
Florida	58	56	58	53	53
Georgia	6	7	8	6	6
Hawaii	6	6	6	6	6
Idaho	17	17	17	17	17
Illinois	35	36	35	35	34
Indiana	19	18	19	18	19
Iowa	21	22	22	23	23
Kansas	6	6	7	7	7
Kentucky	14	14	14	14	14
Louisiana	4	4	3	2	2
Maine	25	28	28	27	26
Maryland	12	13	14	11	13
Massachusetts	37	40	40	39	38
Michigan	52	51	51	49	47
Minnesota	32	31	31	31	30
Mississippi	1	1	1	1	1
Missouri	17	17	16	15	13
Montana	7	7	7	7	7
Nebraska	7	7	8	8	7
Nevada	4	4	4	4	5
New Hampshire	10	10	10	11	11
New Jersey	51	51	50	47	49
New Mexico	6	6	6	6	6
New York	125	130	130	122	123
North Carolina	13	13	13	13	14
North Dakota	2	2	2	2	2
Ohio	66	65	66	64	64
Oklahoma	8	8	6	4	4
Oregon	19	19	20	19	18
Pennsylvania	81	79	86	87	84
Rhode Island	4	4	4	4	4
South Carolina	2	2	2	2	2
South Dakota	9	9	9	9	9
Tennessee	12	12	12	12	10
Texas	44	43	43	38	36
Utah	20	20	20	20	20
Vermont	35	51	49	59	58
Virginia	1	1	1	1	3
Washington	10	10	10	10	10
West Virginia	1	2	2	2	2
Wisconsin	203	202	206	200	199
Wyoming	-	-	-	-	-
United States	1,273	1,298	1,305	1,275	1,266
Atlantic	494	522	530	518	521
Central	557	553	556	537	526
West	222	223	219	220	219

- Represents zero.



West: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming.

Central: Alabama, Arkansas, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Michigan, Minnesota, Mississippi, Missouri, Nebraska, North Dakota, Ohio, Oklahoma, South Dakota, Tennessee, Texas, Wisconsin.

Atlantic: Connecticut, Delaware, Florida, Georgia, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, North Carolina, Rhode Island, South Carolina, Vermont, Virginia, West Virginia.

Statistical Methodology

Data Collection Period: Dairy products estimates are based upon survey data collected after the close of each month. Production data are provided by the firms producing dairy products.

Sampling frames and sample size: In 2019, there were 1,266 manufacturers that produced one or more dairy products. In states with small numbers of plants, reports are received from all plants each month. In states with large numbers of plants, survey procedures are designed to obtain monthly reports from all large plants and from a sample of small plants. In some states, the State Departments of Agriculture assist in collection of data, which eliminates duplicate reporting and reduces respondent burden.

Modes of data collection: Data are collected by mail, personal and telephone interviews, facsimile, and via electronic mail.

Terms and definitions: Firms complete the questionnaire using standard industry definitions and through the aid of instructions and definitions provided on the questionnaire.

Reliability: Data for the Dairy Products report are collected by a Census of all known manufacturers of dairy products in the United States. Firms producing large quantities of dairy products, along with a sample of smaller firms, are contacted monthly to collect previous month production data. Those small firms not contacted monthly are contacted after the close of the year to obtain previous year production. Production of products at small firms not contacted monthly are estimated during the monthly survey based upon check data, and state and national trends. Small firms are defined as those that do not make up a significant portion of the published total. Plants storing nonfat dry milk and dry whey are required under Federal law as defined in Public Laws 106-532 and 107-171 to complete the Dairy Products report. Plants storing these items are contacted monthly. Additionally, many state governments have mandated that dairy plants in their state complete the Dairy Products report each month. Because the Dairy Products survey is a census, sampling error should not affect the final estimates, however non-sampling errors are possible.

Estimating Procedures: In the Regional Field Office (RFO), data reported by firms are reviewed for reasonableness and consistency by comparing with data reported in prior months and by data reported by other firms in the State. Each RFO summarizes data at the Individual State level. State estimates are submitted to the Agricultural Statistics Board (ASB) along with supporting comments where they are compared with surrounding states, their region, and national trends. During both RFO and ASB review, plants are sometimes contacted again for further verification of numbers reported. After ASB review, RFO data are summarized into a National level summary.

Revision Policy: Monthly estimates are subject to revision the month following the preliminary estimates. Annual estimates are published in late April in the *Dairy Products Yearly Summary* report which includes any revisions made to previous 2 years of estimates. Revisions are generally due to plant data that are received too late to be included in the current report.

Information Contacts

Listed below are the commodity specialists in the Livestock Branch of the National Agricultural Statistics Service to contact for additional information. E-mail inquiries may be sent to nass@usda.gov.

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- Cornell’s Mann Library has launched a new website housing NASS’s and other agency’s archived reports. The new website, <https://usda.library.cornell.edu>. All email subscriptions containing reports will be sent from the new website, <https://usda.library.cornell.edu>. To continue receiving the reports via e-mail, you will have to go to the new website, create a new account and re-subscribe to the reports. If you need instructions to set up an account or subscribe, they are located at: <https://usda.library.cornell.edu/help>. You should whitelist notifications@usda-esmis.library.cornell.edu in your email client to avoid the emails going into spam/junk folders.

For more information on NASS surveys and reports, call the NASS Agricultural Statistics Hotline at (800) 727-9540, 7:30 a.m. to 4:00 p.m. ET, or e-mail: nass@usda.gov.

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