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December 2019 Highlights

Total cheese output (excluding cottage cheese) was 1.11 billion pounds, 0.2 percent above December 2018 and 1.3 percent above November 2019.

Italian type cheese production totaled 471 million pounds, 1.7 percent below December 2018 and 0.7 percent below November 2019.

American type cheese production totaled 457 million pounds, 1.9 percent above December 2018 and 5.0 percent above November 2019.

Butter production was 177 million pounds, 4.0 percent above December 2018 and 13.9 percent above November 2019.

Dry milk products (comparisons in percentage with December 2018)

Nonfat dry milk, human - 164 million pounds, up 15.3 percent.

Skim milk powder - 52.8 million pounds, up 4.8 percent.

Whey products (comparisons in percentage with December 2018)

Dry whey, total - 79.8 million pounds, up 7.1 percent.

Lactose, human and animal - 93.7 million pounds, down 15.1 percent.

Whey protein concentrate, total - 42.8 million pounds, down 2.2 percent.

Frozen products (comparisons in percentage with December 2018)

Ice cream, regular (hard) - 49.9 million gallons, up 13.8 percent.

Ice cream, lowfat (total) - 25.2 million gallons, down 10.5 percent.

Sherbet (hard) - 1.84 million gallons, down 12.2 percent.

Frozen yogurt (total) - 3.11 million gallons, down 0.7 percent.

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Dairy Products Production by Product – United States: December 2018 and 2019

Product	December 2018	November 2019	December 2019	Change from	
				December 2018	November 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Butter	170,388	155,525	177,194	4.0	13.9
Cheese					
American types ¹	448,340	434,896	456,660	1.9	5.0
Cheddar	326,117	311,104	331,551	1.7	6.6
Other American types	122,223	123,792	125,109	2.4	1.1
Blue and Gorgonzola	8,743	7,602	6,759	-22.7	-11.1
Brick and Muenster	14,691	15,675	15,091	2.7	-3.7
Cream and Neufchatel	77,562	86,199	82,999	7.0	-3.7
Feta	8,473	10,156	11,603	36.9	14.2
Gouda	3,989	4,096	4,069	2.0	-0.7
Hispanic	29,973	28,048	25,369	-15.4	-9.6
Italian types	479,005	474,076	470,744	-1.7	-0.7
Mozzarella	377,006	376,481	370,859	-1.6	-1.5
Parmesan	37,526	31,017	34,216	-8.8	10.3
Provolone	30,404	30,572	30,706	1.0	0.4
Ricotta	22,153	23,863	22,837	3.1	-4.3
Romano	5,523	5,545	5,061	-8.4	-8.7
Other Italian types	6,393	6,598	7,065	10.5	7.1
Swiss	27,907	26,023	27,492	-1.5	5.6
All other types	13,728	13,829	13,670	-0.4	-1.1
Total cheese ²	1,112,411	1,100,600	1,114,456	0.2	1.3
Cottage cheese, curd ³	29,519	28,631	28,381	-3.9	-0.9
Cottage cheese, cream ⁴	26,146	26,747	27,557	5.4	3.0
Cottage cheese, lowfat ⁵	24,621	24,002	23,241	-5.6	-3.2
Sour cream	126,443	130,096	129,444	2.4	-0.5
Yogurt, plain and flavored	343,698	320,475	328,947	-4.3	2.6
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
Frozen products					
Ice cream, regular, hard	43,855	49,361	49,920	13.8	1.1
Ice cream, lowfat, hard	13,802	13,947	13,841	0.3	-0.8
Ice cream, lowfat, soft	14,350	11,232	11,368	-20.8	1.2
Ice cream, lowfat, total ⁶	28,152	25,179	25,209	-10.5	0.1
Ice cream, nonfat, hard	238	410	454	90.8	10.7
Sherbet, hard	2,100	2,164	1,844	-12.2	-14.8
Frozen yogurt, total	3,133	3,170	3,112	-0.7	-1.8
Regular and lowfat, hard	1,269	1,017	1,146	-9.7	12.7
Nonfat, hard	240	323	342	42.5	5.9
Other frozen dairy products	1,014	540	1,127	11.1	108.7
Water and juice ices	3,029	3,795	3,343	10.4	-11.9
Mix for frozen products					
Ice cream, regular, mix	26,694	29,074	31,128	16.6	7.1
Ice cream, lowfat, mix ⁷	15,294	14,066	14,092	-7.9	0.2
Ice cream, nonfat, mix	285	300	288	1.1	-4.0
Sherbet mix	1,445	1,496	1,217	-15.8	-18.6
Yogurt mix	2,023	1,784	1,856	-8.3	4.0

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

² Excludes Cottage Cheese.

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

⁴ Fat content 4 percent or more.

⁵ Fat content less than 4 percent.

⁶ Includes freezer-made milkshake.

⁷ Includes milkshake mix.

**Whey and Modified Whey Products Production, Stocks, and Prices – United States:
December 2018 and 2019**

Product	December 2018	November 2019	December 2019	Change from	
				December 2018	November 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Condensed whey, solids content ¹					
Sweet-type, human	10,423	7,966	7,371	-29.3	-7.5
Dry whey products					
Dry whey, human	73,196	73,921	78,695	7.5	6.5
Dry whey, animal	1,309	1,190	1,125	-14.1	-5.5
Dry whey, total	74,505	75,111	79,820	7.1	6.3
Reduced lactose and minerals					
Human	1,720	1,364	1,701	-1.1	24.7
Animal	2,616	2,925	2,698	3.1	-7.8
Whey protein concentrate					
Human ²	43,064	39,653	42,232	-1.9	6.5
Animal ²	658	833	520	-21.0	-37.6
Total ²	43,722	40,486	42,752	-2.2	5.6
25.0-49.9 percent ³	18,345	14,212	16,021	-12.7	12.7
50.0-89.9 percent ³	25,377	26,274	26,731	5.3	1.7
Whey protein isolates ⁴	11,007	8,986	9,099	-17.3	1.3
Lactose, human and animal	110,406	88,656	93,740	-15.1	5.7
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	70,010	77,958	71,487	2.1	-8.3
Dry whey, animal	926	1,063	859	-7.2	-19.2
Dry whey, total	70,936	79,021	72,346	2.0	-8.4
Reduced Lactose and minerals					
Human and animal ⁶	4,191	5,138	5,073	21.0	-1.3
Whey protein concentrate					
Human ²	64,000	67,148	67,023	4.7	-0.2
Animal ²	1,080	815	612	-43.3	-24.9
Total ²	65,080	67,963	67,635	3.9	-0.5
25.0-49.9 percent ³	25,149	24,528	26,536	5.5	8.2
50.0-89.9 percent ³	39,931	43,435	41,099	2.9	-5.4
Whey protein isolates ⁴	23,947	17,543	16,722	-30.2	-4.7
Lactose, human and animal	105,638	116,656	111,518	5.6	-4.4
	(cents per pound)	(cents per pound)	(cents per pound)	(cents change)	(cents change)
Manufacturers' selling price ⁷					
Dry whey, animal	34.7	12.3	19.9	-14.9	7.6

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, f.o.b. plant. Average monthly prices reported by firms.

**Condensed and Dry Milk Products Production, Stocks, and Shipments – United States:
December 2018 and 2019**

Product	December 2018	November 2019	December 2019	Change from	
				December 2018	November 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Production					
Bulk condensed milk					
Skim, unsweetened	89,800	91,162	96,887	7.9	6.3
Dry milk products					
Dry buttermilk, total	9,027	8,881	11,844	31.2	33.4
Dry skim milk, animal	1,351	894	770	-43.0	-13.9
Dry whole milk	7,773	9,856	8,920	14.8	-9.5
Milk protein concentrate, total ¹	10,283	10,050	14,560	41.6	44.9
Nonfat dry milk, human	142,522	141,703	164,257	15.3	15.9
Skim milk powder, total ²	50,316	43,733	52,753	4.8	20.6
Manufacturers' stocks end-of-month ³					
Dry milk products					
Dry buttermilk, total	17,648	14,953	17,357	-1.6	16.1
Dry skim milk, animal	16,155	15,597	12,661	-21.6	-18.8
Dry whole milk	15,573	15,917	12,113	-22.2	-23.9
Nonfat dry milk, human	276,527	222,669	248,432	-10.2	11.6
Manufacturers' shipments ⁴					
Dry milk products					
Nonfat dry milk, human	170,379	140,180	124,726	-26.8	-11.0

¹ Dry milk protein concentrate, 40-89.9 percent.

² Includes protein standardized and blends.

³ Stocks held by manufacturers at all points and in transit.

⁴ For dry products, shipments of bulk goods.

Dairy Products Production by Product and Month – United States: 2018 and 2019

Product and month	Monthly			Cumulative		
	2018	2019	Change from 2018	2018	2019	Change from 2018
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Total cheese ¹						
January	1,098,670	1,098,353	-	1,098,670	1,098,353	-
February	992,824	991,346	-0.1	2,091,494	2,089,699	-0.1
March	1,108,022	1,120,525	1.1	3,199,516	3,210,224	0.3
April	1,078,148	1,086,416	0.8	4,277,664	4,296,640	0.4
May	1,085,249	1,109,044	2.2	5,362,913	5,405,684	0.8
June	1,065,989	1,067,383	0.1	6,428,902	6,473,067	0.7
July	1,087,097	1,092,686	0.5	7,515,999	7,565,753	0.7
August	1,086,966	1,121,987	3.2	8,602,965	8,687,740	1.0
September	1,059,076	1,080,648	2.0	9,662,041	9,768,388	1.1
October	1,154,170	1,137,641	-1.4	10,816,211	10,906,029	0.8
November	1,095,965	1,100,600	0.4	11,912,176	12,006,629	0.8
December	1,112,411	1,114,456	0.2	13,024,587	13,121,085	0.7
Total American cheese types ²						
January	448,124	439,283	-2.0	448,124	439,283	-2.0
February	406,189	391,027	-3.7	854,313	830,310	-2.8
March	443,185	440,262	-0.7	1,297,498	1,270,572	-2.1
April	444,287	431,588	-2.9	1,741,785	1,702,160	-2.3
May	442,968	443,943	0.2	2,184,753	2,146,103	-1.8
June	429,076	426,627	-0.6	2,613,829	2,572,730	-1.6
July	440,937	437,343	-0.8	3,054,766	3,010,073	-1.5
August	435,388	459,204	5.5	3,490,154	3,469,277	-0.6
September	424,032	414,502	-2.2	3,914,186	3,883,779	-0.8
October	457,122	445,950	-2.4	4,371,308	4,329,729	-1.0
November	434,185	434,896	0.2	4,805,493	4,764,625	-0.9
December	448,340	456,660	1.9	5,253,833	5,221,285	-0.6
Cheddar cheese						
January	331,985	323,210	-2.6	331,985	323,210	-2.6
February	301,256	280,816	-6.8	633,241	604,026	-4.6
March	320,257	312,494	-2.4	953,498	916,520	-3.9
April	319,153	307,591	-3.6	1,272,651	1,224,111	-3.8
May	318,665	321,660	0.9	1,591,316	1,545,771	-2.9
June	312,869	307,127	-1.8	1,904,185	1,852,898	-2.7
July	325,217	307,940	-5.3	2,229,402	2,160,838	-3.1
August	311,974	325,145	4.2	2,541,376	2,485,983	-2.2
September	297,632	283,246	-4.8	2,839,008	2,769,229	-2.5
October	323,213	310,108	-4.1	3,162,221	3,079,337	-2.6
November	314,170	311,104	-1.0	3,476,391	3,390,441	-2.5
December	326,117	331,551	1.7	3,802,508	3,721,992	-2.1

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2018 and 2019 (continued)

Product and month	Monthly			Cumulative		
	2018	2019	Change from 2018	2018	2019	Change from 2018
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Total Italian cheese types						
January	473,913	480,134	1.3	473,913	480,134	1.3
February	428,100	441,082	3.0	902,013	921,216	2.1
March	483,095	494,933	2.5	1,385,108	1,416,149	2.2
April	460,768	476,853	3.5	1,845,876	1,893,002	2.6
May	460,817	475,351	3.2	2,306,693	2,368,353	2.7
June	450,929	462,859	2.6	2,757,622	2,831,212	2.7
July	462,769	465,587	0.6	3,220,391	3,296,799	2.4
August	453,431	467,324	3.1	3,673,822	3,764,123	2.5
September	450,964	470,703	4.4	4,124,786	4,234,826	2.7
October	483,852	485,386	0.3	4,608,638	4,720,212	2.4
November	469,207	474,076	1.0	5,077,845	5,194,288	2.3
December	479,005	470,744	-1.7	5,556,850	5,665,032	1.9
Mozzarella						
January	365,563	379,627	3.8	365,563	379,627	3.8
February	328,591	347,234	5.7	694,154	726,861	4.7
March	372,712	392,018	5.2	1,066,866	1,118,879	4.9
April	358,320	373,667	4.3	1,425,186	1,492,546	4.7
May	359,072	375,667	4.6	1,784,258	1,868,213	4.7
June	355,249	371,007	4.4	2,139,507	2,239,220	4.7
July	367,437	369,779	0.6	2,506,944	2,608,999	4.1
August	357,346	371,629	4.0	2,864,290	2,980,628	4.1
September	358,579	376,283	4.9	3,222,869	3,356,911	4.2
October	381,217	385,784	1.2	3,604,086	3,742,695	3.8
November	370,269	376,481	1.7	3,974,355	4,119,176	3.6
December	377,006	370,859	-1.6	4,351,361	4,490,035	3.2
Other Italian cheese types						
January	5,549	6,750	21.6	5,549	6,750	21.6
February	5,689	6,076	6.8	11,238	12,826	14.1
March	6,417	7,328	14.2	17,655	20,154	14.2
April	5,909	6,567	11.1	23,564	26,721	13.4
May	6,671	6,330	-5.1	30,235	33,051	9.3
June	6,828	5,981	-12.4	37,063	39,032	5.3
July	6,084	6,749	10.9	43,147	45,781	6.1
August	6,181	7,244	17.2	49,328	53,025	7.5
September	6,728	6,805	1.1	56,056	59,830	6.7
October	6,257	5,559	-11.2	62,313	65,389	4.9
November	6,987	6,598	-5.6	69,300	71,987	3.9
December	6,393	7,065	10.5	75,693	79,052	4.4

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2018 and 2019 (continued)

Product and month	Monthly			Cumulative		
	2018	2019	Change from 2018	2018	2019	Change from 2018
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Butter						
January	182,143	189,642	4.1	182,143	189,642	4.1
February	167,669	164,525	-1.9	349,812	354,167	1.2
March	181,847	173,558	-4.6	531,659	527,725	-0.7
April	175,216	164,674	-6.0	706,875	692,399	-2.0
May	170,122	160,945	-5.4	876,997	853,344	-2.7
June	142,122	144,801	1.9	1,019,119	998,145	-2.1
July	134,564	142,541	5.9	1,153,683	1,140,686	-1.1
August	133,571	137,322	2.8	1,287,254	1,278,008	-0.7
September	135,041	137,886	2.1	1,422,295	1,415,894	-0.5
October	148,896	156,946	5.4	1,571,191	1,572,840	0.1
November	149,428	155,525	4.1	1,720,619	1,728,365	0.5
December	170,388	177,194	4.0	1,891,007	1,905,559	0.8
Nonfat dry milk, human						
January	159,272	172,690	8.4	159,272	172,690	8.4
February	157,105	153,806	-2.1	316,377	326,496	3.2
March	177,980	163,944	-7.9	494,357	490,440	-0.8
April	169,428	165,049	-2.6	663,785	655,489	-1.2
May	165,670	170,687	3.0	829,455	826,176	-0.4
June	152,244	155,862	2.4	981,699	982,038	-
July	150,193	168,198	12.0	1,131,892	1,150,236	1.6
August	129,077	133,720	3.6	1,260,969	1,283,956	1.8
September	114,030	120,297	5.5	1,374,999	1,404,253	2.1
October	121,595	135,233	11.2	1,496,594	1,539,486	2.9
November	134,424	141,703	5.4	1,631,018	1,681,189	3.1
December	142,522	164,257	15.3	1,773,540	1,845,446	4.1
Skim milk powder, total ³						
January	44,033	39,784	-9.6	44,033	39,784	-9.6
February	38,034	35,630	-6.3	82,067	75,414	-8.1
March	42,066	46,677	11.0	124,133	122,091	-1.6
April	49,457	45,014	-9.0	173,590	167,105	-3.7
May	50,374	25,169	-50.0	223,964	192,274	-14.1
June	59,439	44,384	-25.3	283,403	236,658	-16.5
July	47,498	36,725	-22.7	330,901	273,383	-17.4
August	47,558	51,350	8.0	378,459	324,733	-14.2
September	46,694	52,806	13.1	425,153	377,539	-11.2
October	48,580	44,459	-8.5	473,733	421,998	-10.9
November	42,455	43,733	3.0	516,188	465,731	-9.8
December	50,316	52,753	4.8	566,504	518,484	-8.5

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2018 and 2019 (continued)

Product and month	Monthly			Cumulative		
	2018	2019	Change from 2018	2018	2019	Change from 2018
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Dry whey, total ⁴						
January	90,569	81,202	-10.3	90,569	81,202	-10.3
February	89,431	74,948	-16.2	180,000	156,150	-13.3
March	91,368	76,372	-16.4	271,368	232,522	-14.3
April	85,731	74,997	-12.5	357,099	307,519	-13.9
May	85,904	79,483	-7.5	443,003	387,002	-12.6
June	86,603	82,976	-4.2	529,606	469,978	-11.3
July	90,171	82,905	-8.1	619,777	552,883	-10.8
August	78,814	84,909	7.7	698,591	637,792	-8.7
September	69,951	90,626	29.6	768,542	728,418	-5.2
October	84,003	90,842	8.1	852,545	819,260	-3.9
November	72,306	75,111	3.9	924,851	894,371	-3.3
December	74,505	79,820	7.1	999,356	974,191	-2.5
Lactose, human and animal						
January	94,822	111,586	17.7	94,822	111,586	17.7
February	86,232	98,080	13.7	181,054	209,666	15.8
March	100,861	114,527	13.5	281,915	324,193	15.0
April	93,472	108,038	15.6	375,387	432,231	15.1
May	96,204	109,247	13.6	471,591	541,478	14.8
June	95,874	106,630	11.2	567,465	648,108	14.2
July	98,603	106,918	8.4	666,068	755,026	13.4
August	97,273	95,457	-1.9	763,341	850,483	11.4
September	91,391	95,525	4.5	854,732	946,008	10.7
October	90,025	96,939	7.7	944,757	1,042,947	10.4
November	103,137	88,656	-14.0	1,047,894	1,131,603	8.0
December	110,406	93,740	-15.1	1,158,300	1,225,343	5.8
Whey protein concentrate, total						
January	44,257	43,170	-2.5	44,257	43,170	-2.5
February	41,182	39,295	-4.6	85,439	82,465	-3.5
March	50,463	42,769	-15.2	135,902	125,234	-7.8
April	41,887	40,729	-2.8	177,789	165,963	-6.7
May	42,424	41,126	-3.1	220,213	207,089	-6.0
June	41,001	39,191	-4.4	261,214	246,280	-5.7
July	40,877	39,624	-3.1	302,091	285,904	-5.4
August	42,856	39,789	-7.2	344,947	325,693	-5.6
September	41,991	39,865	-5.1	386,938	365,558	-5.5
October	42,392	40,546	-4.4	429,330	406,104	-5.4
November	40,919	40,486	-1.1	470,249	446,590	-5.0
December	43,722	42,752	-2.2	513,971	489,342	-4.8

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2018 and 2019 (continued)

Product and month	Monthly			Cumulative		
	2018	2019	Change from 2018	2018	2019	Change from 2018
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Cottage cheese, cream						
January	27,933	28,322	1.4	27,933	28,322	1.4
February	27,261	26,094	-4.3	55,194	54,416	-1.4
March	32,655	30,228	-7.4	87,849	84,644	-3.6
April	29,410	31,141	5.9	117,259	115,785	-1.3
May	32,320	29,580	-8.5	149,579	145,365	-2.8
June	31,006	28,754	-7.3	180,585	174,119	-3.6
July	30,114	32,594	8.2	210,699	206,713	-1.9
August	31,920	27,859	-12.7	242,619	234,572	-3.3
September	27,141	27,360	0.8	269,760	261,932	-2.9
October	29,828	31,962	7.2	299,588	293,894	-1.9
November	27,051	26,747	-1.1	326,639	320,641	-1.8
December	26,146	27,557	5.4	352,785	348,198	-1.3
Cottage cheese, lowfat						
January	29,299	28,134	-4.0	29,299	28,134	-4.0
February	27,577	25,374	-8.0	56,876	53,508	-5.9
March	31,340	28,122	-10.3	88,216	81,630	-7.5
April	29,982	29,221	-2.5	118,198	110,851	-6.2
May	31,476	27,653	-12.1	149,674	138,504	-7.5
June	28,321	25,769	-9.0	177,995	164,273	-7.7
July	29,296	29,827	1.8	207,291	194,100	-6.4
August	29,342	26,402	-10.0	236,633	220,502	-6.8
September	26,943	27,505	2.1	263,576	248,007	-5.9
October	28,706	27,890	-2.8	292,282	275,897	-5.6
November	25,181	24,002	-4.7	317,463	299,899	-5.5
December	24,621	23,241	-5.6	342,084	323,140	-5.5
Sour cream						
January	120,265	120,975	0.6	120,265	120,975	0.6
February	98,965	100,923	2.0	219,230	221,898	1.2
March	116,365	108,829	-6.5	335,595	330,727	-1.5
April	111,335	117,612	5.6	446,930	448,339	0.3
May	119,221	121,142	1.6	566,151	569,481	0.6
June	114,106	111,628	-2.2	680,257	681,109	0.1
July	109,820	118,337	7.8	790,077	799,446	1.2
August	119,327	115,858	-2.9	909,404	915,304	0.6
September	107,914	113,199	4.9	1,017,318	1,028,503	1.1
October	128,883	133,084	3.3	1,146,201	1,161,587	1.3
November	130,767	130,096	-0.5	1,276,968	1,291,683	1.2
December	126,443	129,444	2.4	1,403,411	1,421,127	1.3

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2018 and 2019 (continued)

Product and month	Monthly			Cumulative		
	2018	2019	Change from 2018	2018	2019	Change from 2018
	(1,000 gallons)	(1,000 gallons)	(percent)	(1,000 gallons)	(1,000 gallons)	(percent)
Ice cream, regular hard						
January	53,684	53,551	-0.2	53,684	53,551	-0.2
February	55,447	52,120	-6.0	109,131	105,671	-3.2
March	63,553	65,449	3.0	172,684	171,120	-0.9
April	62,821	64,091	2.0	235,505	235,211	-0.1
May	64,551	64,194	-0.6	300,056	299,405	-0.2
June	70,263	66,462	-5.4	370,319	365,867	-1.2
July	68,966	65,958	-4.4	439,285	431,825	-1.7
August	70,111	61,956	-11.6	509,396	493,781	-3.1
September	56,601	59,247	4.7	565,997	553,028	-2.3
October	60,610	58,963	-2.7	626,607	611,991	-2.3
November	48,070	49,361	2.7	674,677	661,352	-2.0
December	43,855	49,920	13.8	718,532	711,272	-1.0
Ice cream, lowfat total						
January	32,568	31,559	-3.1	32,568	31,559	-3.1
February	34,823	32,235	-7.4	67,391	63,794	-5.3
March	41,108	41,611	1.2	108,499	105,405	-2.9
April	40,800	44,487	9.0	149,299	149,892	0.4
May	42,471	48,594	14.4	191,770	198,486	3.5
June	45,471	45,579	0.2	237,241	244,065	2.9
July	42,333	43,393	2.5	279,574	287,458	2.8
August	41,742	37,929	-9.1	321,316	325,387	1.3
September	34,907	32,503	-6.9	356,223	357,890	0.5
October	36,607	31,828	-13.1	392,830	389,718	-0.8
November	30,121	25,179	-16.4	422,951	414,897	-1.9
December	28,152	25,209	-10.5	451,103	440,106	-2.4
Sherbet, hard						
January	2,858	2,551	-10.7	2,858	2,551	-10.7
February	3,112	2,653	-14.7	5,970	5,204	-12.8
March	3,368	3,502	4.0	9,338	8,706	-6.8
April	3,578	3,236	-9.6	12,916	11,942	-7.5
May	3,513	3,294	-6.2	16,429	15,236	-7.3
June	3,563	3,346	-6.1	19,992	18,582	-7.1
July	3,151	2,974	-5.6	23,143	21,556	-6.9
August	3,255	2,563	-21.3	26,398	24,119	-8.6
September	3,084	2,702	-12.4	29,482	26,821	-9.0
October	2,978	2,450	-17.7	32,460	29,271	-9.8
November	2,341	2,164	-7.6	34,801	31,435	-9.7
December	2,100	1,844	-12.2	36,901	33,279	-9.8

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2018 and 2019 (continued)

Product and month	Monthly			Cumulative		
	2018	2019	Change from 2018	2018	2019	Change from 2018
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Yogurt, plain and flavored						
January	372,015	360,050	-3.2	372,015	360,050	-3.2
February	376,710	365,389	-3.0	748,725	725,439	-3.1
March	389,848	390,607	0.2	1,138,573	1,116,046	-2.0
April	358,160	371,640	3.8	1,496,733	1,487,686	-0.6
May	373,431	347,538	-6.9	1,870,164	1,835,224	-1.9
June	373,079	360,060	-3.5	2,243,243	2,195,284	-2.1
July	360,886	348,256	-3.5	2,604,129	2,543,540	-2.3
August	396,296	357,283	-9.8	3,000,425	2,900,823	-3.3
September	369,989	357,865	-3.3	3,370,414	3,258,688	-3.3
October	363,128	352,291	-3.0	3,733,542	3,610,979	-3.3
November	310,848	320,475	3.1	4,044,390	3,931,454	-2.8
December	343,698	328,947	-4.3	4,388,088	4,260,401	-2.9
	(1,000 gallons)	(1,000 gallons)	(percent)	(1,000 gallons)	(1,000 gallons)	(percent)
Frozen yogurt, total						
January	4,054	5,145	26.9	4,054	5,145	26.9
February	4,094	4,500	9.9	8,148	9,645	18.4
March	5,495	4,750	-13.6	13,643	14,395	5.5
April	5,212	4,896	-6.1	18,855	19,291	2.3
May	4,880	4,673	-4.2	23,735	23,964	1.0
June	5,089	2,936	-42.3	28,824	26,900	-6.7
July	4,258	4,078	-4.2	33,082	30,978	-6.4
August	4,005	4,011	0.1	37,087	34,989	-5.7
September	3,622	3,817	5.4	40,709	38,806	-4.7
October	3,124	2,955	-5.4	43,833	41,761	-4.7
November	3,261	3,170	-2.8	47,094	44,931	-4.6
December	3,133	3,112	-0.7	50,227	48,043	-4.3

- Represents zero.

¹ Excludes Cottage Cheese.

² Includes Cheddar, Colby, washed curd, stirred curd, Monterey, and Jack.

³ Includes protein standardized and blends.

⁴ Excludes all modified dry whey products.

**Total Cheese Production Excluding Cottage Cheese – States and United States:
December 2018 and 2019**

State	December 2018	November 2019	December 2019	Change from	
				December 2018	November 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	221,276	217,793	202,839	-8.3	-6.9
Idaho	85,176	77,105	88,686	4.1	15.0
Illinois	7,305	6,085	7,051	-3.5	15.9
Iowa	26,039	28,667	28,735	10.4	0.2
Minnesota	65,561	58,321	62,884	-4.1	7.8
New Jersey	5,264	5,280	5,547	5.4	5.1
New Mexico	80,165	80,442	82,564	3.0	2.6
New York	64,454	69,673	68,044	5.6	-2.3
Ohio	18,127	19,015	20,506	13.1	7.8
Oregon	18,645	16,977	18,354	-1.6	8.1
Pennsylvania	36,808	35,278	39,904	8.4	13.1
South Dakota	25,809	32,801	33,747	30.8	2.9
Vermont	13,504	12,387	12,513	-7.3	1.0
Wisconsin	279,799	284,171	280,248	0.2	-1.4
Other States ¹	164,479	156,605	162,834	-1.0	4.0
United States	1,112,411	1,100,600	1,114,456	0.2	1.3
Atlantic	131,286	133,779	137,068	4.4	2.5
Central	501,818	506,493	514,487	2.5	1.6
West	479,307	460,328	462,901	-3.4	0.6

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

American Cheese Production – States and United States: December 2018 and 2019

State	December 2018	November 2019	December 2019	Change from	
				December 2018	November 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	54,714	49,042	50,039	-8.5	2.0
Idaho	50,303	48,602	53,302	6.0	9.7
Iowa	16,358	17,993	18,127	10.8	0.7
Minnesota	54,027	51,738	54,606	1.1	5.5
New York	11,815	12,068	11,541	-2.3	-4.4
Oregon	18,548	16,885	18,262	-1.5	8.2
Wisconsin	85,575	83,343	86,900	1.5	4.3
Other States ¹	157,000	155,225	163,883	4.4	5.6
United States	448,340	434,896	456,660	1.9	5.0
Atlantic	28,719	28,577	28,131	-2.0	-1.6
Central	222,662	218,933	231,098	3.8	5.6
West	196,959	187,386	197,431	0.2	5.4

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

Cheddar Cheese Production – States and United States: December 2018 and 2019

State	December 2018	November 2019	December 2019	Change from	
				December 2018	November 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	32,658	24,347	24,343	-25.5	-
Idaho	36,820	34,765	41,701	13.3	20.0
Iowa	9,454	9,031	9,661	2.2	7.0
Minnesota	51,255	50,104	52,891	3.2	5.6
Oregon	15,385	14,492	15,641	1.7	7.9
Vermont	8,699	8,654	8,872	2.0	2.5
Wisconsin	60,290	58,364	61,000	1.2	4.5
Other States ¹	111,556	111,347	117,442	5.3	5.5
United States	326,117	311,104	331,551	1.7	6.6
Atlantic	27,335	26,876	27,033	-1.1	0.6
Central	161,287	154,822	164,056	1.7	6.0
West	137,495	129,406	140,462	2.2	8.5

- Represents zero.

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

Total Italian Cheese Production – States and United States: December 2018 and 2019

State	December 2018	November 2019	December 2019	Change from	
				December 2018	November 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	142,505	148,096	133,640	-6.2	-9.8
Idaho	29,162	23,719	30,982	6.2	30.6
Minnesota	11,009	6,279	8,034	-27.0	28.0
New York	30,411	31,323	29,046	-4.5	-7.3
Pennsylvania	23,125	20,961	22,441	-3.0	7.1
Wisconsin	140,619	139,719	138,273	-1.7	-1.0
Other States ¹	102,174	103,979	108,328	6.0	4.2
United States	479,005	474,076	470,744	-1.7	-0.7
Atlantic	61,060	59,641	59,047	-3.3	-1.0
Central	185,621	186,697	188,455	1.5	0.9
West	232,324	227,738	223,242	-3.9	-2.0

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

Mozzarella Cheese Production – States and United States: December 2018 and 2019

State	December 2018	November 2019	December 2019	Change from	
				December 2018	November 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	131,296	137,692	122,914	-6.4	-10.7
Idaho	28,161	23,094	30,327	7.7	31.3
New York	16,594	15,911	14,563	-12.2	-8.5
Pennsylvania	20,024	17,703	18,712	-6.6	5.7
Wisconsin	90,475	90,054	88,800	-1.9	-1.4
Other States ¹	90,456	92,027	95,543	5.6	3.8
United States	377,006	376,481	370,859	-1.6	-1.5
Atlantic	39,915	38,087	36,776	-7.9	-3.4
Central	118,165	123,142	123,560	4.6	0.3
West	218,926	215,252	210,523	-3.8	-2.2

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

Butter Production – States and United States: December 2018 and 2019

State	December 2018	November 2019	December 2019	Change from	
				December 2018	November 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	47,504	48,649	55,483	16.8	14.0
New York	2,414	1,970	2,413	-	22.5
Pennsylvania	6,639	7,980	8,914	34.3	11.7
Other States ¹	113,831	96,926	110,384	-3.0	13.9
United States	170,388	155,525	177,194	4.0	13.9
Atlantic	16,700	14,342	19,450	16.5	35.6
Central	74,627	64,328	69,463	-6.9	8.0
West	79,061	76,855	88,281	11.7	14.9

- Represents zero.

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

Nonfat Dry Milk (Human) Production – States and United States: December 2018 and 2019

State	December 2018	November 2019	December 2019	Change from	
				December 2018	November 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	46,824	44,918	55,734	19.0	24.1
Pennsylvania	12,009	14,632	18,042	50.2	23.3
Other States ¹	83,689	82,153	90,481	8.1	10.1
United States	142,522	141,703	164,257	15.3	15.9
Atlantic	27,766	27,268	34,548	24.4	26.7
Central	32,323	30,983	29,074	-10.1	-6.2
West	82,433	83,452	100,635	22.1	20.6

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

Dry Whey (Human) Production – States and United States: December 2018 and 2019

State	December 2018	November 2019	December 2019	Change from	
				December 2018	November 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
New York	11,640	11,179	10,854	-6.8	-2.9
Wisconsin	23,819	22,443	26,638	11.8	18.7
Other States ¹	37,737	40,299	41,203	9.2	2.2
United States	73,196	73,921	78,695	7.5	6.5
Atlantic	21,350	20,794	21,206	-0.7	2.0
Central	33,232	35,357	40,207	21.0	13.7
West	18,614	17,770	17,282	-7.2	-2.7

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

Ice Cream, Regular (Hard) Production – States and United States: December 2018 and 2019

State	December 2018	November 2019	December 2019	Change from	
				December 2018	November 2019
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
California	2,441	5,438	4,765	95.2	-12.4
Connecticut	792	1,190	752	-5.1	-36.8
Missouri	1,946	2,237	1,424	-26.8	-36.3
New York	2,189	2,107	2,087	-4.7	-0.9
Ohio	1,960	1,862	1,764	-10.0	-5.3
Oregon	1,144	1,015	1,148	0.3	13.1
Pennsylvania	3,748	3,445	3,325	-11.3	-3.5
Tennessee	1,426	1,705	1,569	10.0	-8.0
Utah	893	1,570	1,201	34.5	-23.5
Other States ¹	26,877	28,792	31,885	18.6	10.7
United States	43,855	49,361	49,920	13.8	1.1
Atlantic	11,213	12,519	11,169	-0.4	-10.8
Central	26,017	26,441	29,101	11.9	10.1
West	6,625	10,401	9,650	45.7	-7.2

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

Dairy Products Regions



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 2018, there were 1,273 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.

Travis Averill, Chief, Livestock Branch	(202) 692-0069
Scott Hollis, Head, Livestock Section	(202) 690-2424
Sherry Bertramsen – Livestock Slaughter	(202) 690-8632
Holly Brenize – Sheep and Goats	(202) 720-0585
Heidi Lanouette – Cattle, Cattle on Feed	(202) 720-3040
Mike Miller – Milk Production and Milk Cows	(202) 720-3278
Suzanne Richards – Dairy Products	(202) 720-4448
Seth Riggins – Hogs and Pigs	(202) 720-3106

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