



Dairy Products

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December 2018 Highlights

Total cheese output (excluding cottage cheese) was 1.09 billion pounds, 1.2 percent below December 2017 but 1.0 percent above November 2018.

Italian type cheese production totaled 479 million pounds, 2.0 percent above December 2017 and 3.0 percent above November 2018.

American type cheese production totaled 425 million pounds, 4.4 percent below December 2017 but 0.6 percent above November 2018.

Butter production was 171 million pounds, 0.1 percent below December 2017 but 17.0 percent above November 2018.

Dry milk products (comparisons in percentage with December 2017)

Nonfat dry milk, human - 143 million pounds, down 13.0 percent.

Skim milk powder - 50.8 million pounds, up 1.8 percent.

Whey products (comparisons in percentage with December 2017)

Dry whey, total - 74.5 million pounds, down 13.4 percent.

Lactose, human and animal - 106 million pounds, up 9.1 percent.

Whey protein concentrate, total - 40.8 million pounds, down 2.7 percent.

Frozen products (comparisons in percentage with December 2017)

Ice cream, regular (hard) - 43.7 million gallons, down 6.1 percent.

Ice cream, lowfat (total) - 26.6 million gallons, down 6.9 percent.

Sherbet (hard) - 2.27 million gallons, up 3.9 percent.

Frozen yogurt (total) - 3.46 million gallons, down 1.5 percent.

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Dairy Products Production by Product – United States: December 2017 and 2018

Product	December 2017	November 2018	December 2018	Change from	
				December 2017	November 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Butter	171,105	146,143	170,960	-0.1	17.0
Cheese					
American types ¹	443,974	422,011	424,642	-4.4	0.6
Cheddar	327,062	301,795	306,299	-6.3	1.5
Other American types	116,912	120,216	118,343	1.2	-1.6
Blue and Gorgonzola	7,007	7,249	8,592	22.6	18.5
Brick and Muenster	14,606	16,041	14,835	1.6	-7.5
Cream and Neufchatel	87,238	85,734	82,034	-6.0	-4.3
Feta	9,396	8,910	8,470	-9.9	-4.9
Gouda	5,704	6,649	4,116	-27.8	-38.1
Hispanic	23,144	26,666	29,118	25.8	9.2
Italian types	469,755	465,533	479,383	2.0	3.0
Mozzarella	365,309	363,893	378,867	3.7	4.1
Parmesan	39,190	34,177	37,719	-3.8	10.4
Provolone	31,739	32,448	28,887	-9.0	-11.0
Ricotta	21,748	24,691	22,036	1.3	-10.8
Romano	5,418	4,561	5,478	1.1	20.1
Other Italian types	6,351	5,763	6,396	0.7	11.0
Swiss	28,488	28,227	27,892	-2.1	-1.2
All other types	16,178	13,997	13,267	-18.0	-5.2
Total cheese ²	1,105,490	1,081,017	1,092,349	-1.2	1.0
Cottage cheese, curd ³	28,850	28,942	27,320	-5.3	-5.6
Cottage cheese, cream ⁴	26,066	25,335	24,554	-5.8	-3.1
Cottage cheese, lowfat ⁵	25,152	24,845	22,906	-8.9	-7.8
Sour cream	121,812	131,019	127,100	4.3	-3.0
Yogurt, plain and flavored	352,746	318,965	344,910	-2.2	8.1
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
Frozen products					
Ice cream, regular, hard	46,520	49,759	43,687	-6.1	-12.2
Ice cream, lowfat, hard	12,605	14,026	13,541	7.4	-3.5
Ice cream, lowfat, soft	15,947	13,580	13,036	-18.3	-4.0
Ice cream, lowfat, total ⁶	28,552	27,606	26,577	-6.9	-3.7
Ice cream, nonfat, hard	457	472	256	-44.0	-45.8
Sherbet, hard	2,181	2,304	2,265	3.9	-1.7
Frozen yogurt, total	3,514	3,961	3,463	-1.5	-12.6
Regular and lowfat, hard	1,185	1,179	1,215	2.5	3.1
Nonfat, hard	330	442	249	-24.5	-43.7
Other frozen dairy products	1,528	1,138	1,113	-27.2	-2.2
Water and juice ices	2,860	4,114	2,967	3.7	-27.9
Mix for frozen products					
Ice cream, regular, mix	27,054	29,472	24,992	-7.6	-15.2
Ice cream, lowfat, mix ⁷	14,396	15,514	14,933	3.7	-3.7
Ice cream, nonfat, mix	425	461	336	-20.9	-27.1
Sherbet mix	1,522	1,571	1,463	-3.9	-6.9
Yogurt mix	2,030	2,009	1,858	-8.5	-7.5

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 2017 and 2018**

Product	December 2017	November 2018	December 2018	Change from	
				December 2017	November 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Condensed whey, solids content ¹					
Sweet-type, human	8,565	7,112	8,023	-6.3	12.8
Dry whey products					
Dry whey, human	84,390	73,040	73,196	-13.3	0.2
Dry whey, animal	1,634	1,576	1,309	-19.9	-16.9
Dry whey, total	86,024	74,616	74,505	-13.4	-0.1
Reduced lactose and minerals					
Human	1,629	1,422	1,720	5.6	21.0
Animal	2,864	3,047	2,616	-8.7	-14.1
Whey protein concentrate					
Human ²	41,442	39,970	40,122	-3.2	0.4
Animal ²	472	218	652	38.1	199.1
Total ²	41,914	40,188	40,774	-2.7	1.5
25.0-49.9 percent ³	15,034	14,760	17,674	17.6	19.7
50.0-89.9 percent ³	26,880	25,428	23,100	-14.1	-9.2
Whey protein isolates ⁴	9,830	9,349	10,685	8.7	14.3
Lactose, human and animal	97,251	98,958	106,138	9.1	7.3
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	97,032	64,526	65,141	-32.9	1.0
Dry whey, animal	1,654	1,404	848	-48.7	-39.6
Dry whey, total	98,686	65,930	65,989	-33.1	0.1
Reduced Lactose and minerals					
Human and animal ⁶	5,067	4,294	4,191	-17.3	-2.4
Whey protein concentrate					
Human ²	83,852	58,877	64,324	-23.3	9.3
Animal ²	731	895	1,078	47.5	20.4
Total ²	84,583	59,772	65,402	-22.7	9.4
25.0-49.9 percent ³	24,704	20,935	25,066	1.5	19.7
50.0-89.9 percent ³	59,879	38,837	40,336	-32.6	3.9
Whey protein isolates ⁴	27,656	24,350	23,453	-15.2	-3.7
Lactose, human and animal	135,393	86,585	104,591	-22.8	20.8
	(cents per pound)	(cents per pound)	(cents per pound)	(cents change)	(cents change)
Manufacturers' selling price ⁷					
Dry whey, animal	15.9	31.1	34.7	18.9	3.7

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 2017 and 2018**

Product	December 2017	November 2018	December 2018	Change from	
				December 2017	November 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Production					
Bulk condensed milk					
Skim, unsweetened	105,255	102,146	94,160	-10.5	-7.8
Dry milk products					
Dry buttermilk, total	11,165	9,011	9,295	-16.7	3.2
Dry skim milk, animal	874	522	1,572	79.9	201.1
Dry whole milk	11,324	7,378	6,440	-43.1	-12.7
Milk protein concentrate, total ¹	13,652	9,276	10,242	-25.0	10.4
Nonfat dry milk, human	164,014	131,703	142,628	-13.0	8.3
Skim milk powder, total ²	49,895	29,906	50,801	1.8	69.9
Manufacturers' stocks end-of-month ³					
Dry milk products					
Dry buttermilk, total	23,670	16,207	17,940	-24.2	10.7
Dry skim milk, animal	1,743	3,725	3,823	119.3	2.6
Dry whole milk	31,007	17,483	15,803	-49.0	-9.6
Nonfat dry milk, human	320,046	289,508	275,313	-14.0	-4.9
Manufacturers' shipments ⁴					
Dry milk products					
Nonfat dry milk, human	130,062	104,283	170,431	31.0	63.4

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: 2017 and 2018

Product and month	Monthly			Cumulative		
	2017	2018	Change from 2017	2017	2018	Change from 2017
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Total cheese ¹						
January	1,064,232	1,096,520	3.0	1,064,232	1,096,520	3.0
February	957,650	985,969	3.0	2,021,882	2,082,489	3.0
March	1,071,819	1,108,389	3.4	3,093,701	3,190,878	3.1
April	1,057,848	1,073,438	1.5	4,151,549	4,264,316	2.7
May	1,076,171	1,084,611	0.8	5,227,720	5,348,927	2.3
June	1,045,875	1,062,520	1.6	6,273,595	6,411,447	2.2
July	1,051,675	1,082,772	3.0	7,325,270	7,494,219	2.3
August	1,046,041	1,078,404	3.1	8,371,311	8,572,623	2.4
September	1,024,757	1,054,470	2.9	9,396,068	9,627,093	2.5
October	1,086,865	1,129,891	4.0	10,482,933	10,756,984	2.6
November	1,070,668	1,081,017	1.0	11,553,601	11,838,001	2.5
December	1,105,490	1,092,349	-1.2	12,659,091	12,930,350	2.1
Total American cheese types ²						
January	434,627	433,670	-0.2	434,627	433,670	-0.2
February	390,314	397,364	1.8	824,941	831,034	0.7
March	429,558	443,491	3.2	1,254,499	1,274,525	1.6
April	434,657	443,257	2.0	1,689,156	1,717,782	1.7
May	443,083	443,503	0.1	2,132,239	2,161,285	1.4
June	419,260	429,895	2.5	2,551,499	2,591,180	1.6
July	414,495	440,653	6.3	2,965,994	3,031,833	2.2
August	414,280	426,427	2.9	3,380,274	3,458,260	2.3
September	403,544	417,313	3.4	3,783,818	3,875,573	2.4
October	430,485	438,187	1.8	4,214,303	4,313,760	2.4
November	413,714	422,011	2.0	4,628,017	4,735,771	2.3
December	443,974	424,642	-4.4	5,071,991	5,160,413	1.7
Cheddar cheese						
January	327,328	318,254	-2.8	327,328	318,254	-2.8
February	291,508	293,255	0.6	618,836	611,509	-1.2
March	323,442	321,144	-0.7	942,278	932,653	-1.0
April	329,671	318,849	-3.3	1,271,949	1,251,502	-1.6
May	327,456	319,684	-2.4	1,599,405	1,571,186	-1.8
June	302,090	313,351	3.7	1,901,495	1,884,537	-0.9
July	298,285	326,370	9.4	2,199,780	2,210,907	0.5
August	298,306	303,563	1.8	2,498,086	2,514,470	0.7
September	291,755	290,846	-0.3	2,789,841	2,805,316	0.6
October	307,833	307,510	-0.1	3,097,674	3,112,826	0.5
November	296,598	301,795	1.8	3,394,272	3,414,621	0.6
December	327,062	306,299	-6.3	3,721,334	3,720,920	-0.01

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2017 and 2018 (continued)

Product and month	Monthly			Cumulative		
	2017	2018	Change from 2017	2017	2018	Change from 2017
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Total Italian cheese types						
January	454,575	474,348	4.3	454,575	474,348	4.3
February	406,179	426,472	5.0	860,754	900,820	4.7
March	470,053	481,404	2.4	1,330,807	1,382,224	3.9
April	447,937	455,198	1.6	1,778,744	1,837,422	3.3
May	452,332	457,691	1.2	2,231,076	2,295,113	2.9
June	450,027	449,219	-0.2	2,681,103	2,744,332	2.4
July	451,922	463,547	2.6	3,133,025	3,207,879	2.4
August	437,003	455,993	4.3	3,570,028	3,663,872	2.6
September	432,619	450,871	4.2	4,002,647	4,114,743	2.8
October	454,641	474,764	4.4	4,457,288	4,589,507	3.0
November	456,821	465,533	1.9	4,914,109	5,055,040	2.9
December	469,755	479,383	2.0	5,383,864	5,534,423	2.8
Mozzarella						
January	352,768	366,988	4.0	352,768	366,988	4.0
February	314,602	327,413	4.1	667,370	694,401	4.1
March	361,368	371,264	2.7	1,028,738	1,065,665	3.6
April	347,399	353,725	1.8	1,376,137	1,419,390	3.1
May	350,530	357,591	2.0	1,726,667	1,776,981	2.9
June	349,363	353,869	1.3	2,076,030	2,130,850	2.6
July	352,014	367,215	4.3	2,428,044	2,498,065	2.9
August	335,867	358,177	6.6	2,763,911	2,856,242	3.3
September	332,180	358,006	7.8	3,096,091	3,214,248	3.8
October	347,688	373,332	7.4	3,443,779	3,587,580	4.2
November	351,511	363,893	3.5	3,795,290	3,951,473	4.1
December	365,309	378,867	3.7	4,160,599	4,330,340	4.1
Other Italian cheese types						
January	6,600	5,549	-15.9	6,600	5,549	-15.9
February	6,498	5,680	-12.6	13,098	11,229	-14.3
March	7,614	6,460	-15.2	20,712	17,689	-14.6
April	6,666	5,869	-12.0	27,378	23,558	-14.0
May	6,556	6,584	0.4	33,934	30,142	-11.2
June	7,009	6,423	-8.4	40,943	36,565	-10.7
July	6,055	6,041	-0.2	46,998	42,606	-9.3
August	5,634	6,171	9.5	52,632	48,777	-7.3
September	6,747	6,757	0.1	59,379	55,534	-6.5
October	6,271	6,261	-0.2	65,650	61,795	-5.9
November	7,247	5,763	-20.5	72,897	67,558	-7.3
December	6,351	6,396	0.7	79,248	73,954	-6.7

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2017 and 2018 (continued)

Product and month	Monthly			Cumulative		
	2017	2018	Change from 2017	2017	2018	Change from 2017
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Butter						
January	178,060	182,088	2.3	178,060	182,088	2.3
February	161,013	170,116	5.7	339,073	352,204	3.9
March	177,021	182,046	2.8	516,094	534,250	3.5
April	161,956	175,297	8.2	678,050	709,547	4.6
May	163,397	168,109	2.9	841,447	877,656	4.3
June	139,200	142,540	2.4	980,647	1,020,196	4.0
July	135,625	134,561	-0.8	1,116,272	1,154,757	3.4
August	131,152	133,982	2.2	1,247,424	1,288,739	3.3
September	134,552	134,800	0.2	1,381,976	1,423,539	3.0
October	144,671	143,480	-0.8	1,526,647	1,567,019	2.6
November	149,721	146,143	-2.4	1,676,368	1,713,162	2.2
December	171,105	170,960	-0.1	1,847,473	1,884,122	2.0
Nonfat dry milk, human						
January	153,848	160,301	4.2	153,848	160,301	4.2
February	143,231	157,833	10.2	297,079	318,134	7.1
March	160,916	178,694	11.0	457,995	496,828	8.5
April	172,821	163,859	-5.2	630,816	660,687	4.7
May	167,910	159,893	-4.8	798,726	820,580	2.7
June	162,814	146,911	-9.8	961,540	967,491	0.6
July	151,825	144,296	-5.0	1,113,365	1,111,787	-0.1
August	136,753	122,805	-10.2	1,250,118	1,234,592	-1.2
September	134,572	108,826	-19.1	1,384,690	1,343,418	-3.0
October	145,008	125,067	-13.8	1,529,698	1,468,485	-4.0
November	141,440	131,703	-6.9	1,671,138	1,600,188	-4.2
December	164,014	142,628	-13.0	1,835,152	1,742,816	-5.0
Skim milk powder, total ³						
January	55,590	45,753	-17.7	55,590	45,753	-17.7
February	41,391	37,666	-9.0	96,981	83,419	-14.0
March	52,693	42,055	-20.2	149,674	125,474	-16.2
April	50,206	49,446	-1.5	199,880	174,920	-12.5
May	51,012	50,365	-1.3	250,892	225,285	-10.2
June	39,515	58,947	49.2	290,407	284,232	-2.1
July	47,842	47,488	-0.7	338,249	331,720	-1.9
August	44,813	47,560	6.1	383,062	379,280	-1.0
September	29,102	46,592	60.1	412,164	425,872	3.3
October	25,965	37,464	44.3	438,129	463,336	5.8
November	41,609	29,906	-28.1	479,738	493,242	2.8
December	49,895	50,801	1.8	529,633	544,043	2.7

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2017 and 2018 (continued)

Product and month	Monthly			Cumulative		
	2017	2018	Change from 2017	2017	2018	Change from 2017
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Dry whey, total ⁴						
January	82,255	90,319	9.8	82,255	90,319	9.8
February	77,895	89,599	15.0	160,150	179,918	12.3
March	86,689	90,653	4.6	246,839	270,571	9.6
April	84,640	85,149	0.6	331,479	355,720	7.3
May	82,950	85,521	3.1	414,429	441,241	6.5
June	88,064	87,803	-0.3	502,493	529,044	5.3
July	100,402	92,595	-7.8	602,895	621,639	3.1
August	94,276	78,954	-16.3	697,171	700,593	0.5
September	91,302	71,228	-22.0	788,473	771,821	-2.1
October	80,750	86,967	7.7	869,223	858,788	-1.2
November	81,657	74,616	-8.6	950,880	933,404	-1.8
December	86,024	74,505	-13.4	1,036,904	1,007,909	-2.8
Lactose, human and animal						
January	92,320	94,834	2.7	92,320	94,834	2.7
February	84,386	86,294	2.3	176,706	181,128	2.5
March	95,317	99,650	4.5	272,023	280,778	3.2
April	96,265	94,011	-2.3	368,288	374,789	1.8
May	93,634	92,544	-1.2	461,922	467,333	1.2
June	96,082	91,796	-4.5	558,004	559,129	0.2
July	98,117	97,044	-1.1	656,121	656,173	-
August	96,679	94,380	-2.4	752,800	750,553	-0.3
September	94,903	88,157	-7.1	847,703	838,710	-1.1
October	93,098	85,771	-7.9	940,801	924,481	-1.7
November	86,105	98,958	14.9	1,026,906	1,023,439	-0.3
December	97,251	106,138	9.1	1,124,157	1,129,577	0.5
Whey protein concentrate, total						
January	40,329	43,461	7.8	40,329	43,461	7.8
February	36,110	39,391	9.1	76,439	82,852	8.4
March	42,354	44,932	6.1	118,793	127,784	7.6
April	42,062	40,926	-2.7	160,855	168,710	4.9
May	41,612	41,870	0.6	202,467	210,580	4.0
June	40,297	39,862	-1.1	242,764	250,442	3.2
July	41,192	39,798	-3.4	283,956	290,240	2.2
August	38,339	41,767	8.9	322,295	332,007	3.0
September	38,720	42,020	8.5	361,015	374,027	3.6
October	40,796	42,890	5.1	401,811	416,917	3.8
November	40,551	40,188	-0.9	442,362	457,105	3.3
December	41,914	40,774	-2.7	484,276	497,879	2.8

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2017 and 2018 (continued)

Product and month	Monthly			Cumulative		
	2017	2018	Change from 2017	2017	2018	Change from 2017
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Cottage cheese, cream						
January	26,122	25,546	-2.2	26,122	25,546	-2.2
February	25,698	26,932	4.8	51,820	52,478	1.3
March	29,010	32,696	12.7	80,830	85,174	5.4
April	25,942	29,111	12.2	106,772	114,285	7.0
May	29,538	32,368	9.6	136,310	146,653	7.6
June	27,626	31,058	12.4	163,936	177,711	8.4
July	28,007	30,126	7.6	191,943	207,837	8.3
August	30,434	31,415	3.2	222,377	239,252	7.6
September	27,146	29,013	6.9	249,523	268,265	7.5
October	28,829	29,851	3.5	278,352	298,116	7.1
November	26,066	25,335	-2.8	304,418	323,451	6.3
December	26,066	24,554	-5.8	330,484	348,005	5.3
Cottage cheese, lowfat						
January	28,655	26,867	-6.2	28,655	26,867	-6.2
February	28,142	27,567	-2.0	56,797	54,434	-4.2
March	30,711	31,348	2.1	87,508	85,782	-2.0
April	29,610	29,815	0.7	117,118	115,597	-1.3
May	31,746	31,486	-0.8	148,864	147,083	-1.2
June	27,924	28,466	1.9	176,788	175,549	-0.7
July	28,450	29,329	3.1	205,238	204,878	-0.2
August	31,370	31,958	1.9	236,608	236,836	0.1
September	27,396	27,266	-0.5	264,004	264,102	-
October	29,205	28,298	-3.1	293,209	292,400	-0.3
November	26,060	24,845	-4.7	319,269	317,245	-0.6
December	25,152	22,906	-8.9	344,421	340,151	-1.2
Sour cream						
January	113,967	118,603	4.1	113,967	118,603	4.1
February	99,700	98,994	-0.7	213,667	217,597	1.8
March	115,648	116,393	0.6	329,315	333,990	1.4
April	109,615	111,878	2.1	438,930	445,868	1.6
May	118,884	118,874	-	557,814	564,742	1.2
June	117,764	114,737	-2.6	675,578	679,479	0.6
July	107,401	110,077	2.5	782,979	789,556	0.8
August	118,709	118,830	0.1	901,688	908,386	0.7
September	108,314	108,381	0.1	1,010,002	1,016,767	0.7
October	126,023	128,045	1.6	1,136,025	1,144,812	0.8
November	129,312	131,019	1.3	1,265,337	1,275,831	0.8
December	121,812	127,100	4.3	1,387,149	1,402,931	1.1

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2017 and 2018 (continued)

Product and month	Monthly			Cumulative		
	2017	2018	Change from 2017	2017	2018	Change from 2017
	(1,000 gallons)	(1,000 gallons)	(percent)	(1,000 gallons)	(1,000 gallons)	(percent)
Ice cream, regular hard						
January	56,500	54,718	-3.2	56,500	54,718	-3.2
February	58,988	55,411	-6.1	115,488	110,129	-4.6
March	74,168	64,388	-13.2	189,656	174,517	-8.0
April	69,711	63,601	-8.8	259,367	238,118	-8.2
May	72,167	66,580	-7.7	331,534	304,698	-8.1
June	74,788	71,761	-4.0	406,322	376,459	-7.3
July	69,394	70,443	1.5	475,716	446,902	-6.1
August	73,596	71,559	-2.8	549,312	518,461	-5.6
September	60,596	59,019	-2.6	609,908	577,480	-5.3
October	56,616	59,756	5.5	666,524	637,236	-4.4
November	49,618	49,759	0.3	716,142	686,995	-4.1
December	46,520	43,687	-6.1	762,662	730,682	-4.2
Ice cream, lowfat total						
January	31,934	31,241	-2.2	31,934	31,241	-2.2
February	38,363	33,849	-11.8	70,297	65,090	-7.4
March	44,189	41,268	-6.6	114,486	106,358	-7.1
April	41,293	40,329	-2.3	155,779	146,687	-5.8
May	45,772	45,175	-1.3	201,551	191,862	-4.8
June	45,860	46,310	1.0	247,411	238,172	-3.7
July	42,769	43,435	1.6	290,180	281,607	-3.0
August	43,344	42,970	-0.9	333,524	324,577	-2.7
September	35,226	34,572	-1.9	368,750	359,149	-2.6
October	34,566	33,891	-2.0	403,316	393,040	-2.5
November	27,946	27,606	-1.2	431,262	420,646	-2.5
December	28,552	26,577	-6.9	459,814	447,223	-2.7
Sherbet, hard						
January	3,295	2,975	-9.7	3,295	2,975	-9.7
February	3,005	2,995	-0.3	6,300	5,970	-5.2
March	3,770	3,292	-12.7	10,070	9,262	-8.0
April	3,788	3,654	-3.5	13,858	12,916	-6.8
May	3,582	3,514	-1.9	17,440	16,430	-5.8
June	3,819	3,409	-10.7	21,259	19,839	-6.7
July	3,319	3,151	-5.1	24,578	22,990	-6.5
August	3,697	3,467	-6.2	28,275	26,457	-6.4
September	3,282	3,188	-2.9	31,557	29,645	-6.1
October	2,542	3,109	22.3	34,099	32,754	-3.9
November	2,352	2,304	-2.0	36,451	35,058	-3.8
December	2,181	2,265	3.9	38,632	37,323	-3.4

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2017 and 2018 (continued)

Product and month	Monthly			Cumulative		
	2017	2018	Change from 2017	2017	2018	Change from 2017
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Yogurt, plain and flavored						
January	381,750	365,342	-4.3	381,750	365,342	-4.3
February	369,841	375,716	1.6	751,591	741,058	-1.4
March	411,605	390,586	-5.1	1,163,196	1,131,644	-2.7
April	375,287	358,583	-4.5	1,538,483	1,490,227	-3.1
May	385,257	371,391	-3.6	1,923,740	1,861,618	-3.2
June	376,335	368,426	-2.1	2,300,075	2,230,044	-3.0
July	349,529	358,204	2.5	2,649,604	2,588,248	-2.3
August	396,182	397,456	0.3	3,045,786	2,985,704	-2.0
September	393,654	369,615	-6.1	3,439,440	3,355,319	-2.4
October	368,558	369,690	0.3	3,807,998	3,725,009	-2.2
November	317,564	318,965	0.4	4,125,562	4,043,974	-2.0
December	352,746	344,910	-2.2	4,478,308	4,388,884	-2.0
	(1,000 gallons)	(1,000 gallons)	(percent)	(1,000 gallons)	(1,000 gallons)	(percent)
Frozen yogurt, total						
January	5,299	4,617	-12.9	5,299	4,617	-12.9
February	5,424	4,624	-14.7	10,723	9,241	-13.8
March	6,912	6,583	-4.8	17,635	15,824	-10.3
April	6,391	5,646	-11.7	24,026	21,470	-10.6
May	5,771	5,303	-8.1	29,797	26,773	-10.1
June	5,609	5,529	-1.4	35,406	32,302	-8.8
July	5,192	4,937	-4.9	40,598	37,239	-8.3
August	5,653	4,567	-19.2	46,251	41,806	-9.6
September	4,557	4,403	-3.4	50,808	46,209	-9.1
October	4,152	4,074	-1.9	54,960	50,283	-8.5
November	4,070	3,961	-2.7	59,030	54,244	-8.1
December	3,514	3,463	-1.5	62,544	57,707	-7.7

- 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 2017 and 2018**

State	December 2017	November 2018	December 2018	Change from	
				December 2017	November 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	217,439	216,855	221,430	1.8	2.1
Idaho	84,754	77,031	85,161	0.5	10.6
Illinois	7,279	6,994	6,250	-14.1	-10.6
Iowa	21,180	24,591	26,039	22.9	5.9
Minnesota	62,859	61,259	65,561	4.3	7.0
New Jersey	5,292	4,958	5,272	-0.4	6.3
New Mexico	66,690	78,942	68,728	3.1	-12.9
Ohio	20,110	19,294	17,964	-10.7	-6.9
Oregon	17,835	18,024	18,644	4.5	3.4
Pennsylvania	36,824	36,064	36,913	0.2	2.4
South Dakota	25,666	25,080	24,716	-3.7	-1.5
Vermont	12,616	9,971	13,347	5.8	33.9
Wisconsin	291,876	276,633	280,546	-3.9	1.4
Other States ¹	235,070	225,321	221,778	-5.7	-1.6
United States	1,105,490	1,081,017	1,092,349	-1.2	1.0
Atlantic	141,174	134,082	133,593	-5.4	-0.4
Central	509,498	483,331	490,779	-3.7	1.5
West	454,818	463,604	467,977	2.9	0.9

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 2017 and 2018

State	December 2017	November 2018	December 2018	Change from	
				December 2017	November 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	56,108	52,146	54,124	-3.5	3.8
Idaho	53,175	48,261	50,303	-5.4	4.2
Iowa	12,034	17,460	16,358	35.9	-6.3
Oregon	17,759	17,930	18,553	4.5	3.5
Wisconsin	89,973	81,116	84,600	-6.0	4.3
Other States ¹	214,925	205,098	200,704	-6.6	-2.1
United States	443,974	422,011	424,642	-4.4	0.6
Atlantic	28,198	28,065	28,649	1.6	2.1
Central	227,125	206,121	211,057	-7.1	2.4
West	188,651	187,825	184,936	-2.0	-1.5

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 2017 and 2018

State	December 2017	November 2018	December 2018	Change from	
				December 2017	November 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	31,682	29,485	32,674	3.1	10.8
Idaho	43,517	36,528	36,820	-15.4	0.8
Iowa	6,419	10,009	9,454	47.3	-5.5
Minnesota	50,100	48,683	51,255	2.3	5.3
Oregon	15,233	14,312	15,390	1.0	7.5
Vermont	8,960	8,486	8,675	-3.2	2.2
Wisconsin	63,123	56,718	60,100	-4.8	6.0
Other States ¹	108,028	97,574	91,931	-14.9	-5.8
United States	327,062	301,795	306,299	-6.3	1.5
Atlantic	26,809	26,649	27,050	0.9	1.5
Central	165,461	144,539	150,830	-8.8	4.4
West	134,792	130,607	128,419	-4.7	-1.7

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 2017 and 2018

State	December 2017	November 2018	December 2018	Change from	
				December 2017	November 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	137,440	140,460	143,340	4.3	2.1
Idaho	25,914	22,104	29,162	12.5	31.9
Pennsylvania	22,895	21,377	23,118	1.0	8.1
Wisconsin	147,680	139,133	140,598	-4.8	1.1
Other States ¹	135,826	142,459	143,165	5.4	0.5
United States	469,755	465,533	479,383	2.0	3.0
Atlantic	62,267	60,926	60,640	-2.6	-0.5
Central	190,361	183,203	185,585	-2.5	1.3
West	217,127	221,404	233,158	7.4	5.3

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 2017 and 2018

State	December 2017	November 2018	December 2018	Change from	
				December 2017	November 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	125,944	129,090	133,236	5.8	3.2
Idaho	24,218	21,459	28,161	16.3	31.2
Pennsylvania	19,980	18,378	20,021	0.2	8.9
Wisconsin	96,564	90,765	91,000	-5.8	0.3
Other States ¹	98,603	104,201	106,449	8.0	2.2
United States	365,309	363,893	378,867	3.7	4.1
Atlantic	41,166	38,256	39,289	-4.6	2.7
Central	121,704	118,754	118,712	-2.5	-
West	202,439	206,883	220,866	9.1	6.8

- Represents zero.

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

Butter Production – States and United States: December 2017 and 2018

State	December 2017	November 2018	December 2018	Change from	
				December 2017	November 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	50,281	41,258	46,385	-7.7	12.4
Pennsylvania	8,862	6,127	8,787	-0.8	43.4
Other States ¹	111,962	98,758	115,788	3.4	17.2
United States	171,105	146,143	170,960	-0.1	17.0
Atlantic	18,368	13,100	18,236	-0.7	39.2
Central	71,200	63,703	74,782	5.0	17.4
West	81,537	69,340	77,942	-4.4	12.4

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 2017 and 2018

State	December 2017	November 2018	December 2018	Change from	
				December 2017	November 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	55,900	44,914	37,524	-32.9	-16.5
Pennsylvania	15,864	12,205	15,446	-2.6	26.6
Other States ¹	92,250	74,584	89,658	-2.8	20.2
United States	164,014	131,703	142,628	-13.0	8.3
Atlantic	30,547	24,261	37,182	21.7	53.3
Central	31,567	24,675	32,313	2.4	31.0
West	101,900	82,767	73,133	-28.2	-11.6

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 2017 and 2018

State	December 2017	November 2018	December 2018	Change from	
				December 2017	November 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Wisconsin	29,803	22,588	23,819	-20.1	5.4
Other States ¹	54,587	50,452	49,377	-9.5	-2.1
United States	84,390	73,040	73,196	-13.3	0.2
Atlantic	21,531	20,623	21,350	-0.8	3.5
Central	41,920	31,611	33,232	-20.7	5.1
West	20,939	20,806	18,614	-11.1	-10.5

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 2017 and 2018

State	December 2017	November 2018	December 2018	Change from	
				December 2017	November 2018
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
California	3,553	4,468	2,959	-16.7	-33.8
Connecticut	746	974	783	5.0	-19.6
Missouri	1,444	2,279	1,852	28.3	-18.7
Ohio	1,698	1,943	1,960	15.4	0.9
Oregon	914	984	1,141	24.8	16.0
Pennsylvania	3,857	3,830	3,831	-0.7	0.0
Tennessee	1,322	1,648	1,426	7.9	-13.5
Utah	899	2,316	905	0.7	-60.9
Other States ¹	32,087	31,317	28,830	-10.2	-7.9
United States	46,520	49,759	43,687	-6.1	-12.2
Atlantic	10,678	13,136	11,257	5.4	-14.3
Central	28,474	26,767	25,296	-11.2	-5.5
West	7,368	9,856	7,134	-3.2	-27.6

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 2017, there were 1,306 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@nass.usda.gov.

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Mike Miller – Milk Production and Milk Cows	(202) 720-3278
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- Both national and state specific reports are available via a free e-mail subscription. To set-up this free subscription, visit www.nass.usda.gov and click on “National” or “State” in upper right corner above “search” box to create an account and select the reports you would like to receive.
- 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@nass.usda.gov.

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USDA NASS Data Users' Meeting
Tuesday, April 23, 2019

University of Chicago – Gleacher Center
450 North Cityfront Plaza Drive
Chicago, IL 60611
312-464-8787

USDA's National Agricultural Statistics Service will hold an open forum for users of U.S. domestic and international agriculture data. NASS is organizing the 2019 Data Users' Meeting in cooperation with five other USDA agencies – Agricultural Marketing Service, Economic Research Service, Farm Service Agency, Foreign Agricultural Service, and World Agricultural Outlook Board – and the Census Bureau's Foreign Trade Division. Agency representatives will provide updates on recent and pending changes in statistical and information programs important to agriculture, answer questions, and welcome comments and input from data users.

For registration details or additional information about the Data Users' Meeting, see the meeting page on the NASS website (https://www.nass.usda.gov/Education_and_Outreach/Meeting/index.php). Contact Vernita Murray (NASS) at 202-690-8141 or vernita.murray@nass.usda.gov or Patricia Snipe (NASS) at 202-720-2248 or patricia.snipe@nass.usda.gov for information.

The Data Users' Meeting precedes the Industry Outlook Conference at the same location on Wednesday, April 24, 2019. The outlook meeting brings together analysts from various commodity sectors to discuss developments and trends. For registration details or additional information about the Industry Outlook Conference, see the conference page on the LMIC website (<http://lmic.info/page/meetings>). Or contact Laura Lahr at 303-716-9935 or laura.lahr@lmic.info.