



Dairy Products

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November 2017 Highlights

Total cheese output (excluding cottage cheese) was 1.05 billion pounds, 2.8 percent above November 2016 but 2.0 percent below October 2017.

Italian type cheese production totaled 455 million pounds, 3.6 percent above November 2016 but 0.6 percent below October 2017.

American type cheese production totaled 401 million pounds, 0.6 percent above November 2016 but 4.0 percent below October 2017.

Butter production was 146 million pounds, 1.8 percent above November 2016 and 1.6 percent above October 2017.

Dry milk products (comparisons with November 2016)

Nonfat dry milk, human - 140 million pounds, up 9.7 percent.

Skim milk powder - 41.8 million pounds, down 11.9 percent.

Whey products (comparisons with November 2016)

Dry whey, total - 81.8 million pounds, up 11.6 percent.

Lactose, human and animal - 88.1 million pounds, up 1.4 percent.

Whey protein concentrate, total - 40.7 million pounds, up 3.6 percent.

Frozen products (comparisons with November 2016)

Ice cream, regular (hard) - 49.5 million gallons, down 4.6 percent.

Ice cream, lowfat (total) - 26.2 million gallons, down 7.3 percent.

Sherbet (hard) - 2.41 million gallons, up 24.0 percent.

Frozen yogurt (total) - 3.78 million gallons, down 10.7 percent.

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Dairy Products Production by Product – United States: November 2016 and 2017

Product	November 2016	October 2017	November 2017	Change from	
				November 2016	October 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Butter	143,077	143,382	145,708	1.8	1.6
Cheese					
American types ¹	398,690	418,155	401,235	0.6	-4.0
Cheddar	284,679	294,992	284,696	-	-3.5
Other American types	114,011	123,163	116,539	2.2	-5.4
Blue and Gorgonzola	7,704	7,981	7,577	-1.6	-5.1
Brick and Muenster	15,633	17,673	16,126	3.2	-8.8
Cream and Neufchatel	86,073	88,464	86,898	1.0	-1.8
Feta	10,478	12,598	11,211	7.0	-11.0
Gouda	5,404	5,063	7,932	46.8	56.7
Hispanic	22,724	26,061	23,953	5.4	-8.1
Italian types	438,866	457,367	454,741	3.6	-0.6
Mozzarella	339,289	349,517	350,358	3.3	0.2
Parmesan	30,718	37,487	35,917	16.9	-4.2
Provolone	33,812	34,302	32,616	-3.5	-4.9
Ricotta	23,889	24,763	23,617	-1.1	-4.6
Romano	4,565	5,122	4,789	4.9	-6.5
Other Italian types	6,593	6,176	7,444	12.9	20.5
Swiss	25,883	27,146	26,329	1.7	-3.0
All other types	14,473	16,341	18,942	30.9	15.9
Total cheese ²	1,025,928	1,076,849	1,054,944	2.8	-2.0
Cottage cheese, curd ³	30,965	33,515	29,265	-5.5	-12.7
Cottage cheese, cream ⁴	26,041	28,867	25,759	-1.1	-10.8
Cottage cheese, lowfat ⁵	28,456	30,270	27,466	-3.5	-9.3
Sour cream	133,291	125,192	128,671	-3.5	2.8
Yogurt, plain and flavored	310,983	359,744	313,064	0.7	-13.0
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
Frozen products					
Ice cream, regular, hard	51,941	58,215	49,538	-4.6	-14.9
Ice cream, lowfat, hard	12,917	15,599	12,224	-5.4	-21.6
Ice cream, lowfat, soft	15,362	17,004	13,990	-8.9	-17.7
Ice cream, lowfat, total	28,279	32,603	26,214	-7.3	-19.6
Ice cream, nonfat, hard	554	595	365	-34.1	-38.7
Sherbet, hard	1,939	2,675	2,405	24.0	-10.1
Frozen yogurt, total	4,238	4,559	3,783	-10.7	-17.0
Regular and lowfat, hard	1,666	1,462	1,322	-20.6	-9.6
Nonfat, hard	455	474	344	-24.4	-27.4
Other frozen dairy products	748	1,773	2,035	172.1	14.8
Water and juice ices	4,499	4,273	3,747	-16.7	-12.3
Mix for frozen products					
Ice cream, regular, mix	31,809	35,256	30,033	-5.6	-14.8
Ice cream, lowfat, mix	15,355	18,392	14,811	-3.5	-19.5
Ice cream, nonfat, mix	536	498	406	-24.3	-18.5
Sherbet mix	1,315	1,940	1,759	33.8	-9.3
Yogurt mix	2,352	2,784	2,046	-13.0	-26.5

- Represents zero.

¹ Includes Cheddar, Colby, 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.

**Whey and Modified Whey Products Production, Stocks, and Prices – United States:
November 2016 and 2017**

Product	November 2016	October 2017	November 2017	Change from	
				November 2016	October 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Condensed whey, solids content ¹					
Sweet-type, human	9,558	6,505	7,156	-25.1	10.0
Dry whey products					
Dry whey, human	70,899	79,271	79,923	12.7	0.8
Dry whey, animal	2,416	1,457	1,868	-22.7	28.2
Dry whey, total	73,315	80,728	81,791	11.6	1.3
Reduced lactose and minerals					
Human	2,109	1,623	1,298	-38.5	-20.0
Animal	2,571	2,950	2,612	1.6	-11.5
Whey protein concentrate					
Human ²	39,007	40,317	40,124	2.9	-0.5
Animal ²	261	742	550	110.7	-25.9
Total ²	39,268	41,059	40,674	3.6	-0.9
25.0-49.9 percent ³	15,870	15,724	15,036	-5.3	-4.4
50.0-89.9 percent ³	23,398	25,335	25,638	9.6	1.2
Whey protein isolates ⁴	10,217	9,522	9,260	-9.4	-2.8
Lactose, human and animal	86,913	93,260	88,120	1.4	-5.5
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	59,456	92,316	98,468	65.6	6.7
Dry whey, animal	1,165	1,607	1,830	57.1	13.9
Dry whey, total	60,621	93,923	100,298	65.5	6.8
Reduced Lactose and minerals					
Human and animal ⁶	6,471	6,079	5,441	-15.9	-10.5
Whey protein concentrate					
Human ²	64,746	75,622	80,123	23.7	6.0
Animal ²	506	914	703	38.9	-23.1
Total ²	65,252	76,536	80,826	23.9	5.6
25.0-49.9 percent ³	22,420	23,803	24,097	7.5	1.2
50.0-89.9 percent ³	42,832	52,733	56,729	32.4	7.6
Whey protein isolates ⁴	21,855	28,585	28,274	29.4	-1.1
Lactose, human and animal	109,712	139,494	139,582	27.2	0.1
	(cents per pound)	(cents per pound)	(cents per pound)	(cents change)	(cents change)
Manufacturers' selling price ⁷					
Dry whey, animal	21.9	18.7	14.6	-7.3	-4.1

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:
November 2016 and 2017**

Product	November 2016	October 2017	November 2017	Change from	
				November 2016	October 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Production					
Bulk condensed milk					
Skim, unsweetened	119,425	122,349	107,854	-9.7	-11.8
Dry milk products					
Dry buttermilk, total	9,794	9,512	10,176	3.9	7.0
Dry skim milk, animal	565	1,185	655	15.9	-44.7
Dry whole milk	7,308	10,280	15,271	109.0	48.6
Milk protein concentrate, total ¹	13,182	10,383	9,839	-25.4	-5.2
Nonfat dry milk, human	128,105	144,659	140,487	9.7	-2.9
Skim milk powder, total ²	47,388	25,612	41,768	-11.9	63.1
Manufacturers' stocks end-of-month ³					
Dry milk products					
Dry buttermilk, total	20,083	18,435	21,097	5.0	14.4
Dry skim milk, animal	1,357	2,308	2,301	69.6	-0.3
Dry whole milk	12,176	21,868	27,075	122.4	23.8
Nonfat dry milk, human	215,134	300,043	301,663	40.2	0.5
Manufacturers' shipments ⁴					
Dry milk products					
Nonfat dry milk, human	128,603	161,640	128,654	-	-20.4

- Represents zero.

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: 2016 and 2017

[Blank data cells indicate estimation period has not yet begun]

Product and month	By month			Cumulative		
	2016	2017	Change from 2016	2016	2017	Change from 2016
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Total cheese ¹						
January	1,024,566	1,044,983	2.0	1,024,566	1,044,983	2.0
February	948,740	942,361	-0.7	1,973,306	1,987,344	0.7
March	1,028,308	1,061,402	3.2	3,001,614	3,048,746	1.6
April	1,002,315	1,042,783	4.0	4,003,929	4,091,529	2.2
May	1,011,424	1,055,063	4.3	5,015,353	5,146,592	2.6
June	997,528	1,029,638	3.2	6,012,881	6,176,230	2.7
July	1,017,092	1,034,596	1.7	7,029,973	7,210,826	2.6
August	1,004,907	1,028,400	2.3	8,034,880	8,239,226	2.5
September	987,256	1,013,341	2.6	9,022,136	9,252,567	2.6
October	1,048,119	1,076,849	2.7	10,070,255	10,329,416	2.6
November	1,025,928	1,054,944	2.8	11,096,183	11,384,360	2.6
December	1,061,514			12,157,697		
Total American cheese types ²						
January	401,810	417,584	3.9	401,810	417,584	3.9
February	367,399	373,688	1.7	769,209	791,272	2.9
March	401,665	415,940	3.6	1,170,874	1,207,212	3.1
April	398,307	423,774	6.4	1,569,181	1,630,986	3.9
May	402,266	426,550	6.0	1,971,447	2,057,536	4.4
June	392,168	403,258	2.8	2,363,615	2,460,794	4.1
July	401,061	400,509	-0.1	2,764,676	2,861,303	3.5
August	392,532	398,766	1.6	3,157,208	3,260,069	3.3
September	378,004	393,892	4.2	3,535,212	3,653,961	3.4
October	401,681	418,155	4.1	3,936,893	4,072,116	3.4
November	398,690	401,235	0.6	4,335,583	4,473,351	3.2
December	420,617			4,756,200		
Cheddar cheese						
January	297,072	311,603	4.9	297,072	311,603	4.9
February	257,987	275,988	7.0	555,059	587,591	5.9
March	286,220	309,569	8.2	841,279	897,160	6.6
April	299,780	318,867	6.4	1,141,059	1,216,027	6.6
May	292,636	311,990	6.6	1,433,695	1,528,017	6.6
June	280,376	287,357	2.5	1,714,071	1,815,374	5.9
July	284,173	285,133	0.3	1,998,244	2,100,507	5.1
August	281,287	283,813	0.9	2,279,531	2,384,320	4.6
September	270,531	282,002	4.2	2,550,062	2,666,322	4.6
October	282,640	294,992	4.4	2,832,702	2,961,314	4.5
November	284,679	284,696		3,117,381	3,246,010	4.1
December	307,338			3,424,719		

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2016 and 2017 (continued)

[Blank data cells indicate estimation period has not yet begun]

Product and month	By month			Cumulative		
	2016	2017	Change from 2016	2016	2017	Change from 2016
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Total Italian cheese types						
January	450,991	454,006	0.7	450,991	454,006	0.7
February	416,850	406,570	-2.5	867,841	860,576	-0.8
March	458,613	469,197	2.3	1,326,454	1,329,773	0.3
April	438,588	447,658	2.1	1,765,042	1,777,431	0.7
May	444,995	452,567	1.7	2,210,037	2,229,998	0.9
June	435,342	449,930	3.4	2,645,379	2,679,928	1.3
July	444,306	451,732	1.7	3,089,685	3,131,660	1.4
August	425,216	436,258	2.6	3,514,901	3,567,918	1.5
September	429,204	433,570	1.0	3,944,105	4,001,488	1.5
October	447,342	457,367	2.2	4,391,447	4,458,855	1.5
November	438,866	454,741	3.6	4,830,313	4,913,596	1.7
December	462,330			5,292,643		
Mozzarella						
January	352,402	352,375	-	352,402	352,375	-
February	325,516	314,758	-3.3	677,918	667,133	-1.6
March	358,031	361,564	1.0	1,035,949	1,028,697	-0.7
April	340,164	347,614	2.2	1,376,113	1,376,311	-
May	346,457	350,712	1.2	1,722,570	1,727,023	0.3
June	338,997	349,793	3.2	2,061,567	2,076,816	0.7
July	348,321	352,474	1.2	2,409,888	2,429,290	0.8
August	328,240	335,818	2.3	2,738,128	2,765,108	1.0
September	333,318	333,695	0.1	3,071,446	3,098,803	0.9
October	344,711	349,517	1.4	3,416,157	3,448,320	0.9
November	339,289	350,358	3.3	3,755,446	3,798,678	1.2
December	358,327			4,113,773		
Other Italian cheese types						
January	6,097	6,337	3.9	6,097	6,337	3.9
February	5,718	6,293	10.1	11,815	12,630	6.9
March	5,863	7,498	27.9	17,678	20,128	13.9
April	5,530	6,544	18.3	23,208	26,672	14.9
May	6,410	6,553	2.2	29,618	33,225	12.2
June	5,890	6,953	18.0	35,508	40,178	13.2
July	5,497	6,093	10.8	41,005	46,271	12.8
August	4,940	5,719	15.8	45,945	51,990	13.2
September	6,465	6,625	2.5	52,410	58,615	11.8
October	6,685	6,176	-7.6	59,095	64,791	9.6
November	6,593	7,444	12.9	65,688	72,235	10.0
December	7,310			72,998		

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2016 and 2017 (continued)

[Blank data cells indicate estimation period has not yet begun]

Product and month	By month			Cumulative		
	2016	2017	Change from 2016	2016	2017	Change from 2016
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Butter						
January	170,735	177,818	4.1	170,735	177,818	4.1
February	168,263	161,052	-4.3	338,998	338,870	-
March	174,907	176,067	0.7	513,905	514,937	0.2
April	171,199	162,519	-5.1	685,104	677,456	-1.1
May	166,017	163,524	-1.5	851,121	840,980	-1.2
June	147,696	140,157	-5.1	998,817	981,137	-1.8
July	135,160	135,834	0.5	1,133,977	1,116,971	-1.5
August	123,514	131,188	6.2	1,257,491	1,248,159	-0.7
September	135,273	134,357	-0.7	1,392,764	1,382,516	-0.7
October	139,849	143,382	2.5	1,532,613	1,525,898	-0.4
November	143,077	145,708	1.8	1,675,690	1,671,606	-0.2
December	163,443			1,839,133		
Nonfat dry milk, human						
January	137,463	153,374	11.6	137,463	153,374	11.6
February	143,032	141,402	-1.1	280,495	294,776	5.1
March	172,110	159,742	-7.2	452,605	454,518	0.4
April	170,927	171,889	0.6	623,532	626,407	0.5
May	166,022	168,325	1.4	789,554	794,732	0.7
June	146,668	163,344	11.4	936,222	958,076	2.3
July	150,873	148,073	-1.9	1,087,095	1,106,149	1.8
August	117,674	135,479	15.1	1,204,769	1,241,628	3.1
September	125,602	133,485	6.3	1,330,371	1,375,113	3.4
October	140,051	144,659	3.3	1,470,422	1,519,772	3.4
November	128,105	140,487	9.7	1,598,527	1,660,259	3.9
December	154,980			1,753,507		
Skim milk powder, total ³						
January	51,225	55,264	7.9	51,225	55,264	7.9
February	40,201	40,031	-0.4	91,426	95,295	4.2
March	40,564	52,693	29.9	131,990	147,988	12.1
April	43,189	50,206	16.2	175,179	198,194	13.1
May	50,865	51,012	0.3	226,044	249,206	10.2
June	55,853	39,997	-28.4	281,897	289,203	2.6
July	48,814	51,788	6.1	330,711	340,991	3.1
August	46,426	45,793	-1.4	377,137	386,784	2.6
September	38,447	29,793	-22.5	415,584	416,577	0.2
October	41,475	25,612	-38.2	457,059	442,189	-3.3
November	47,388	41,768	-11.9	504,447	483,957	-4.1
December	54,726			559,173		

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2016 and 2017 (continued)

[Blank data cells indicate estimation period has not yet begun]

Product and month	By month			Cumulative		
	2016	2017	Change from 2016	2016	2017	Change from 2016
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Dry whey, total ⁴						
January	82,918	82,316	-0.7	82,918	82,316	-0.7
February	75,535	77,997	3.3	158,453	160,313	1.2
March	82,656	86,689	4.9	241,109	247,002	2.4
April	81,817	84,615	3.4	322,926	331,617	2.7
May	82,386	82,950	0.7	405,312	414,567	2.3
June	79,751	88,064	10.4	485,063	502,631	3.6
July	81,952	100,402	22.5	567,015	603,033	6.4
August	77,009	94,277	22.4	644,024	697,310	8.3
September	75,517	91,302	20.9	719,541	788,612	9.6
October	83,823	80,728	-3.7	803,364	869,340	8.2
November	73,315	81,791	11.6	876,679	951,131	8.5
December	78,267			954,946		
Lactose, human and animal						
January	88,943	92,658	4.2	88,943	92,658	4.2
February	83,703	84,794	1.3	172,646	177,452	2.8
March	92,796	97,334	4.9	265,442	274,786	3.5
April	91,527	95,901	4.8	356,969	370,687	3.8
May	93,097	94,919	2.0	450,066	465,606	3.5
June	93,713	97,069	3.6	543,779	562,675	3.5
July	97,841	99,539	1.7	641,620	662,214	3.2
August	92,635	97,226	5.0	734,255	759,440	3.4
September	94,882	95,016	0.1	829,137	854,456	3.1
October	89,840	93,260	3.8	918,977	947,716	3.1
November	86,913	88,120	1.4	1,005,890	1,035,836	3.0
December	92,846			1,098,736		
Whey protein concentrate, total						
January	42,602	40,161	-5.7	42,602	40,161	-5.7
February	39,780	36,064	-9.3	82,382	76,225	-7.5
March	41,851	42,338	1.2	124,233	118,563	-4.6
April	39,030	42,890	9.9	163,263	161,453	-1.1
May	39,349	42,774	8.7	202,612	204,227	0.8
June	38,036	40,751	7.1	240,648	244,978	1.8
July	38,437	42,040	9.4	279,085	287,018	2.8
August	35,665	38,106	6.8	314,750	325,124	3.3
September	36,745	38,891	5.8	351,495	364,015	3.6
October	38,060	41,059	7.9	389,555	405,074	4.0
November	39,268	40,674	3.6	428,823	445,748	3.9
December	39,053			467,876		

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2016 and 2017 (continued)

[Blank data cells indicate estimation period has not yet begun]

Product and month	By month			Cumulative		
	2016	2017	Change from 2016	2016	2017	Change from 2016
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Cottage cheese, cream						
January	25,636	23,743	-7.4	25,636	23,743	-7.4
February	26,945	26,208	-2.7	52,581	49,951	-5.0
March	29,154	28,381	-2.7	81,735	78,332	-4.2
April	27,052	25,568	-5.5	108,787	103,900	-4.5
May	28,946	29,071	0.4	137,733	132,971	-3.5
June	28,335	27,754	-2.1	166,068	160,725	-3.2
July	27,163	27,774	2.2	193,231	188,499	-2.4
August	29,684	30,295	2.1	222,915	218,794	-1.8
September	27,782	26,976	-2.9	250,697	245,770	-2.0
October	26,901	28,867	7.3	277,598	274,637	-1.1
November	26,041	25,759	-1.1	303,639	300,396	-1.1
December	25,805			329,444		
Cottage cheese, lowfat						
January	30,270	26,988	-10.8	30,270	26,988	-10.8
February	30,311	28,297	-6.6	60,581	55,285	-8.7
March	34,486	30,809	-10.7	95,067	86,094	-9.4
April	30,326	29,731	-2.0	125,393	115,825	-7.6
May	32,490	31,324	-3.6	157,883	147,149	-6.8
June	30,751	27,804	-9.6	188,634	174,953	-7.3
July	30,359	28,068	-7.5	218,993	203,021	-7.3
August	32,260	31,571	-2.1	251,253	234,592	-6.6
September	30,566	27,553	-9.9	281,819	262,145	-7.0
October	29,954	30,270	1.1	311,773	292,415	-6.2
November	28,456	27,466	-3.5	340,229	319,881	-6.0
December	27,586			367,815		
Sour cream						
January	106,503	111,173	4.4	106,503	111,173	4.4
February	106,171	100,873	-5.0	212,674	212,046	-0.3
March	115,470	115,459	-	328,144	327,505	-0.2
April	100,460	108,816	8.3	428,604	436,321	1.8
May	113,737	118,460	4.2	542,341	554,781	2.3
June	117,910	117,623	-0.2	660,251	672,404	1.8
July	103,526	107,802	4.1	763,777	780,206	2.2
August	114,546	117,657	2.7	878,323	897,863	2.2
September	108,619	108,089	-0.5	986,942	1,005,952	1.9
October	123,458	125,192	1.4	1,110,400	1,131,144	1.9
November	133,291	128,671	-3.5	1,243,691	1,259,815	1.3
December	129,367			1,373,058		

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2016 and 2017 (continued)

[Blank data cells indicate estimation period has not yet begun]

Product and month	By month			Cumulative		
	2016	2017	Change from 2016	2016	2017	Change from 2016
	(1,000 gallons)	(1,000 gallons)	(percent)	(1,000 gallons)	(1,000 gallons)	(percent)
Ice cream, regular hard						
January	59,344	57,108	-3.8	59,344	57,108	-3.8
February	61,786	58,971	-4.6	121,130	116,079	-4.2
March	72,870	75,411	3.5	194,000	191,490	-1.3
April	73,116	69,572	-4.8	267,116	261,062	-2.3
May	72,760	72,703	-0.1	339,876	333,765	-1.8
June	77,004	75,426	-2.0	416,880	409,191	-1.8
July	71,837	70,705	-1.6	488,717	479,896	-1.8
August	73,038	73,477	0.6	561,755	553,373	-1.5
September	63,570	60,924	-4.2	625,325	614,297	-1.8
October	59,850	58,215	-2.7	685,175	672,512	-1.8
November	51,941	49,538	-4.6	737,116	722,050	-2.0
December	49,731			786,847		
Ice cream, lowfat total						
January	29,641	28,935	-2.4	29,641	28,935	-2.4
February	32,454	34,035	4.9	62,095	62,970	1.4
March	40,693	41,263	1.4	102,788	104,233	1.4
April	40,257	39,010	-3.1	143,045	143,243	0.1
May	40,406	43,609	7.9	183,451	186,852	1.9
June	43,003	44,929	4.5	226,454	231,781	2.4
July	41,076	42,299	3.0	267,530	274,080	2.4
August	43,730	43,250	-1.1	311,260	317,330	2.0
September	35,310	32,551	-7.8	346,570	349,881	1.0
October	32,352	32,603	0.8	378,922	382,484	0.9
November	28,279	26,214	-7.3	407,201	408,698	0.4
December	28,118			435,319		
Sherbet, hard						
January	2,443	3,024	23.8	2,443	3,024	23.8
February	3,196	2,710	-15.2	5,639	5,734	1.7
March	3,724	3,530	-5.2	9,363	9,264	-1.1
April	3,694	3,463	-6.3	13,057	12,727	-2.5
May	3,545	3,290	-7.2	16,602	16,017	-3.5
June	3,672	3,582	-2.5	20,274	19,599	-3.3
July	3,136	2,978	-5.0	23,410	22,577	-3.6
August	3,109	3,483	12.0	26,519	26,060	-1.7
September	3,368	3,192	-5.2	29,887	29,252	-2.1
October	2,584	2,675	3.5	32,471	31,927	-1.7
November	1,939	2,405	24.0	34,410	34,332	-0.2
December	2,154			36,564		

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2016 and 2017 (continued)

[Blank data cells indicate estimation period has not yet begun]

Product and month	By month			Cumulative		
	2016	2017	Change from 2016	2016	2017	Change from 2016
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Yogurt, plain and flavored						
January	379,223	374,817	-1.2	379,223	374,817	-1.2
February	376,949	363,051	-3.7	756,172	737,868	-2.4
March	400,584	399,565	-0.3	1,156,756	1,137,433	-1.7
April	373,054	368,594	-1.2	1,529,810	1,506,027	-1.6
May	364,164	374,375	2.8	1,893,974	1,880,402	-0.7
June	378,544	369,950	-2.3	2,272,518	2,250,352	-1.0
July	341,666	342,213	0.2	2,614,184	2,592,565	-0.8
August	399,394	388,659	-2.7	3,013,578	2,981,224	-1.1
September	411,003	386,285	-6.0	3,424,581	3,367,509	-1.7
October	361,120	359,744	-0.4	3,785,701	3,727,253	-1.5
November	310,983	313,064	0.7	4,096,684	4,040,317	-1.4
December	359,135			4,455,819		
	(1,000 gallons)	(1,000 gallons)	(percent)	(1,000 gallons)	(1,000 gallons)	(percent)
Frozen yogurt, total						
January	5,065	4,817	-4.9	5,065	4,817	-4.9
February	5,802	5,124	-11.7	10,867	9,941	-8.5
March	7,204	7,459	3.5	18,071	17,400	-3.7
April	6,279	6,820	8.6	24,350	24,220	-0.5
May	6,321	6,056	-4.2	30,671	30,276	-1.3
June	6,404	6,057	-5.4	37,075	36,333	-2.0
July	5,676	5,475	-3.5	42,751	41,808	-2.2
August	5,675	5,503	-3.0	48,426	47,311	-2.3
September	5,074	4,899	-3.4	53,500	52,210	-2.4
October	4,550	4,559	0.2	58,050	56,769	-2.2
November	4,238	3,783	-10.7	62,288	60,552	-2.8
December	4,638			66,926		

- Represents zero.

¹ Excludes Cottage Cheese.

² Includes Cheddar, Colby, 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:
November 2016 and 2017**

State	November 2016	October 2017	November 2017	Change from	
				November 2016	October 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	209,801	212,046	211,043	0.6	-0.5
Idaho	74,261	85,006	76,611	3.2	-9.9
Illinois	7,033	7,090	6,988	-0.6	-1.4
Iowa	21,574	22,497	21,044	-2.5	-6.5
Minnesota	53,802	59,167	57,486	6.8	-2.8
New Jersey	4,725	5,158	4,348	-8.0	-15.7
New Mexico	65,490	64,077	64,483	-1.5	0.6
New York	77,284	86,502	77,233	-0.1	-10.7
Ohio	18,110	19,435	19,353	6.9	-0.4
Pennsylvania	35,584	34,715	35,953	1.0	3.6
South Dakota	24,363	24,052	23,510	-3.5	-2.3
Vermont	11,814	11,454	12,356	4.6	7.9
Wisconsin	272,576	288,068	279,236	2.4	-3.1
Other States ¹	149,511	157,582	165,300	10.6	4.9
United States	1,025,928	1,076,849	1,054,944	2.8	-2.0
Atlantic	136,564	145,282	137,880	1.0	-5.1
Central	462,516	485,064	480,062	3.8	-1.0
West	426,848	446,503	437,002	2.4	-2.1

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

American Cheese Production – States and United States: November 2016 and 2017

State	November 2016	October 2017	November 2017	Change from	
				November 2016	October 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	53,211	52,517	50,623	-4.9	-3.6
Idaho	50,389	55,855	51,934	3.1	-7.0
Iowa	14,591	12,170	11,390	-21.9	-6.4
New York	10,603	10,854	10,601	-	-2.3
Oregon	16,288	18,125	17,359	6.6	-4.2
Pennsylvania	84	117	101	20.2	-13.7
Wisconsin	79,004	84,259	83,400	5.6	-1.0
Other States ¹	174,520	184,258	175,827	0.7	-4.6
United States	398,690	418,155	401,235	0.6	-4.0
Atlantic	24,639	25,470	26,011	5.6	2.1
Central	194,639	205,487	200,453	3.0	-2.4
West	179,412	187,198	174,771	-2.6	-6.6

- Represents zero.

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

Cheddar Cheese Production – States and United States: November 2016 and 2017

State	November 2016	October 2017	November 2017	Change from	
				November 2016	October 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	28,234	28,148	26,672	-5.5	-5.2
Idaho	39,084	42,090	40,021	2.4	-4.9
Iowa	8,375	6,539	6,025	-28.1	-7.9
Minnesota	41,578	46,631	44,572	7.2	-4.4
Vermont	8,185	7,977	8,446	3.2	5.9
Wisconsin	52,743	57,295	56,700	7.5	-1.0
Other States ¹	106,480	106,312	102,260	-4.0	-3.8
United States	284,679	294,992	284,696	-	-3.5
Atlantic	24,022	24,431	25,078	4.4	2.6
Central	134,459	142,571	138,745	3.2	-2.7
West	126,198	127,990	120,873	-4.2	-5.6

- 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: November 2016 and 2017

State	November 2016	October 2017	November 2017	Change from	
				November 2016	October 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	135,457	133,433	136,884	1.1	2.6
Idaho	17,220	22,338	18,399	6.8	-17.6
New York	32,071	36,226	32,069	-	-11.5
Pennsylvania	21,675	19,660	21,504	-0.8	9.4
Wisconsin	138,517	145,327	140,695	1.6	-3.2
Other States ¹	93,926	100,383	105,190	12.0	4.8
United States	438,866	457,367	454,741	3.6	-0.6
Atlantic	58,634	60,969	58,201	-0.7	-4.5
Central	178,201	188,913	184,948	3.8	-2.1
West	202,031	207,485	211,592	4.7	2.0

- Represents zero.

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

Mozzarella Cheese Production – States and United States: November 2016 and 2017

State	November 2016	October 2017	November 2017	Change from	
				November 2016	October 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	125,234	121,102	125,114	-0.1	3.3
Idaho	16,293	20,985	17,383	6.7	-17.2
New York	15,307	18,934	15,306	-	-19.2
Pennsylvania	18,697	16,535	18,737	0.2	13.3
Wisconsin	88,772	94,096	90,900	2.4	-3.4
Other States ¹	74,986	77,865	82,918	10.6	6.5
United States	339,289	349,517	350,358	3.3	0.2
Atlantic	36,252	37,865	36,044	-0.6	-4.8
Central	113,993	119,344	117,478	3.1	-1.6
West	189,044	192,308	196,836	4.1	2.4

- 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: November 2016 and 2017

State	November 2016	October 2017	November 2017	Change from	
				November 2016	October 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	42,374	43,783	42,077	-0.7	-3.9
New York	1,584	2,196	1,585	0.1	-27.8
Pennsylvania	8,195	6,788	7,279	-11.2	7.2
Other States ¹	90,924	90,615	94,767	4.2	4.6
United States	143,077	143,382	145,708	1.8	1.6
Atlantic	14,343	14,385	14,131	-1.5	-1.8
Central	59,208	58,207	62,148	5.0	6.8
West	69,526	70,790	69,429	-0.1	-1.9

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: November 2016 and 2017

State	November 2016	October 2017	November 2017	Change from	
				November 2016	October 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	38,590	53,005	41,963	8.7	-20.8
Pennsylvania	15,156	12,558	14,056	-7.3	11.9
Other States ¹	74,359	79,096	84,468	13.6	6.8
United States	128,105	144,659	140,487	9.7	-2.9
Atlantic	26,366	20,164	25,570	-3.0	26.8
Central	29,438	24,099	29,979	1.8	24.4
West	72,301	100,396	84,938	17.5	-15.4

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: November 2016 and 2017

State	November 2016	October 2017	November 2017	Change from	
				November 2016	October 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
New York	12,541	11,956	11,317	-9.8	-5.3
Wisconsin	24,826	26,706	27,446	10.6	2.8
Other States ¹	33,532	40,609	41,160	22.7	1.4
United States	70,899	79,271	79,923	12.7	0.8
Atlantic	21,413	20,437	20,354	-4.9	-0.4
Central	35,255	38,381	39,459	11.9	2.8
West	14,231	20,453	20,110	41.3	-1.7

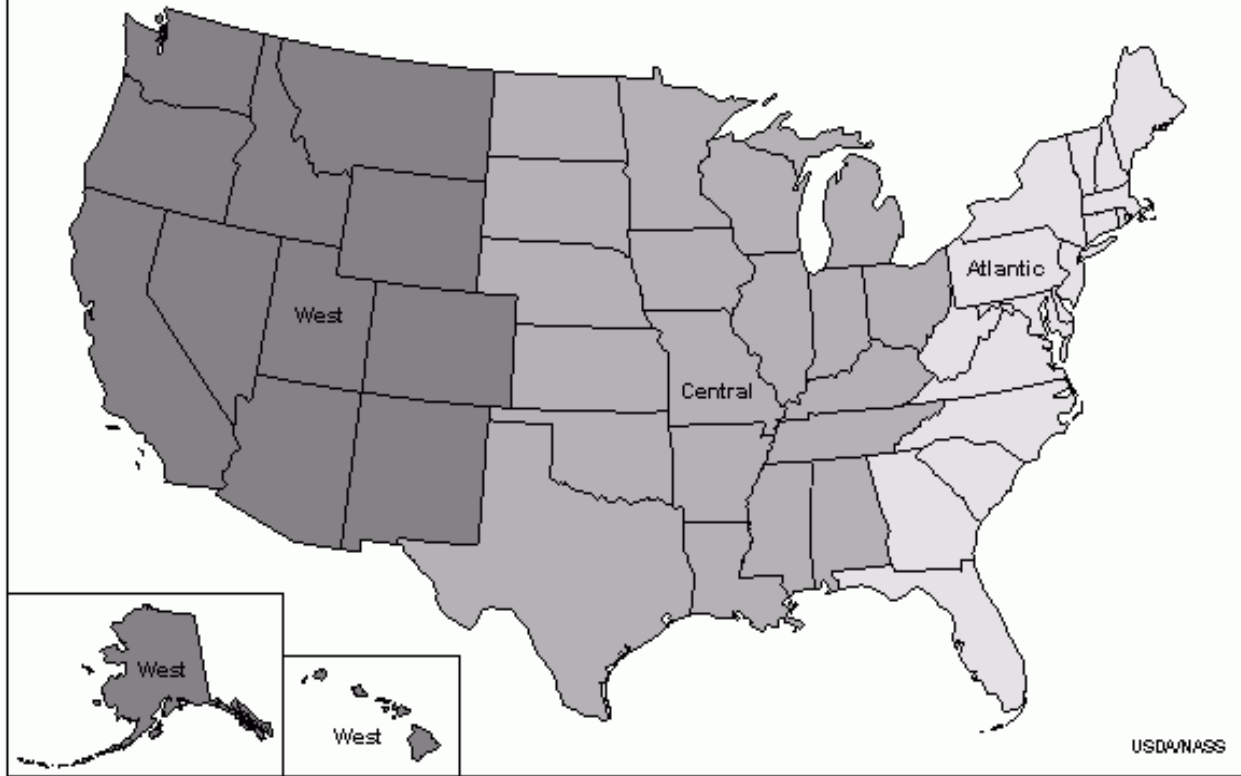
¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Ice Cream, Regular (Hard) Production – States and United States: November 2016 and 2017

State	November 2016	October 2017	November 2017	Change from	
				November 2016	October 2017
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
California	6,655	6,601	5,228	-21.4	-20.8
Connecticut	878	834	806	-8.2	-3.4
Missouri	1,968	2,529	1,682	-14.5	-33.5
Ohio	2,052	2,136	1,940	-5.5	-9.2
Oregon	864	1,096	866	0.2	-21.0
Pennsylvania	3,603	3,488	3,797	5.4	8.9
Wisconsin	1,327	990	844	-36.4	-14.7
Other States ¹	34,594	40,541	34,375	-0.6	-15.2
United States	51,941	58,215	49,538	-4.6	-14.9
Atlantic	12,361	13,815	12,244	-0.9	-11.4
Central	27,966	32,753	27,583	-1.4	-15.8
West	11,614	11,647	9,711	-16.4	-16.6

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

Dairy Products Regions



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 2016, there were 1,272 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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