



Dairy Products

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May 2018 Highlights

Total cheese output (excluding cottage cheese) was 1.09 billion pounds, 1.4 percent above May 2017 and 1.7 percent above April 2018.

Italian type cheese production totaled 457 million pounds, 1.1 percent above May 2017 and 0.4 percent above April 2018.

American type cheese production totaled 443 million pounds, 0.1 percent below May 2017 and 0.1 percent below April 2018.

Butter production was 168 million pounds, 2.8 percent above May 2017 but 4.2 percent below April 2018.

Dry milk products (comparisons in percentage with May 2017)

Nonfat dry milk, human - 160 million pounds, down 4.5 percent.

Skim milk powder - 50.4 million pounds, down 1.3 percent.

Whey products (comparisons in percentage with May 2017)

Dry whey, total - 85.6 million pounds, up 3.2 percent.

Lactose, human and animal - 93.5 million pounds, down 0.2 percent.

Whey protein concentrate, total - 41.5 million pounds, down 0.2 percent.

Frozen products (comparisons in percentage with May 2017)

Ice cream, regular (hard) - 65.7 million gallons, down 9.0 percent.

Ice cream, lowfat (total) - 45.6 million gallons, down 0.3 percent.

Sherbet (hard) - 3.54 million gallons, down 1.2 percent.

Frozen yogurt (total) - 5.38 million gallons, down 6.7 percent.

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

Product	May 2017	April 2018	May 2018	Change from	
				May 2017	April 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Butter	163,397	175,297	167,911	2.8	-4.2
Cheese					
American types ¹	443,083	443,257	442,714	-0.1	-0.1
Cheddar	327,456	318,849	317,523	-3.0	-0.4
Other American types	115,627	124,408	125,191	8.3	0.6
Blue and Gorgonzola	8,602	7,908	8,051	-6.4	1.8
Brick and Muenster	16,728	15,853	16,914	1.1	6.7
Cream and Neufchatel	74,046	70,950	77,911	5.2	9.8
Feta	11,891	12,150	13,141	10.5	8.2
Gouda	4,070	4,656	6,281	54.3	34.9
Hispanic	24,677	23,598	25,981	5.3	10.1
Italian types	452,332	455,198	457,184	1.1	0.4
Mozzarella	350,530	353,725	356,349	1.7	0.7
Parmesan	38,033	38,317	37,617	-1.1	-1.8
Provolone	32,365	34,885	34,077	5.3	-2.3
Ricotta	18,572	17,786	17,781	-4.3	
Romano	6,276	4,616	4,888	-22.1	5.9
Other Italian types	6,556	5,869	6,472	-1.3	10.3
Swiss	26,262	26,831	28,625	9.0	6.7
All other types	14,480	13,037	14,840	2.5	13.8
Total cheese ²	1,076,171	1,073,438	1,091,642	1.4	1.7
Cottage cheese, curd ³	35,558	32,439	35,833	0.8	10.5
Cottage cheese, cream ⁴	29,538	29,111	32,826	11.1	12.8
Cottage cheese, lowfat ⁵	31,746	29,815	31,591	-0.5	6.0
Sour cream	118,884	111,878	118,107	-0.7	5.6
Yogurt, plain and flavored	385,257	358,583	373,909	-2.9	4.3
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
Frozen products					
Ice cream, regular, hard	72,167	63,601	65,702	-9.0	3.3
Ice cream, lowfat, hard	20,754	21,208	20,926	0.8	-1.3
Ice cream, lowfat, soft	25,018	19,121	24,693	-1.3	29.1
Ice cream, lowfat, total ⁶	45,772	40,329	45,619	-0.3	13.1
Ice cream, nonfat, hard	634	584	750	18.3	28.4
Sherbet, hard	3,582	3,654	3,539	-1.2	-3.1
Frozen yogurt, total	5,771	5,646	5,382	-6.7	-4.7
Regular and lowfat, hard	1,885	1,898	1,802	-4.4	-5.1
Nonfat, hard	806	533	500	-38.0	-6.2
Other frozen dairy products	2,220	2,283	2,168	-2.3	-5.0
Water and juice ices	6,899	6,497	6,695	-3.0	3.0
Mix for frozen products					
Ice cream, regular, mix	43,190	39,225	40,365	-6.5	2.9
Ice cream, lowfat, mix ⁷	24,893	22,612	25,800	3.6	14.1
Ice cream, nonfat, mix	507	559	595	17.4	6.4
Sherbet mix	2,329	2,450	2,395	2.8	-2.2
Yogurt mix	3,187	3,060	2,940	-7.8	-3.9

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:
May 2017 and 2018**

Product	May 2017	April 2018	May 2018	Change from	
				May 2017	April 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Condensed whey, solids content ¹					
Sweet-type, human	9,476	6,494	6,844	-27.8	5.4
Dry whey products					
Dry whey, human	81,836	83,917	83,560	2.1	-0.4
Dry whey, animal	1,114	1,232	2,021	81.4	64.0
Dry whey, total	82,950	85,149	85,581	3.2	0.5
Reduced lactose and minerals					
Human	2,885	2,258	2,608	-9.6	15.5
Animal	2,761	3,148	2,869	3.9	-8.9
Whey protein concentrate					
Human ²	41,201	40,579	41,177	-0.1	1.5
Animal ²	411	347	347	-15.6	-
Total ²	41,612	40,926	41,524	-0.2	1.5
25.0-49.9 percent ³	14,907	14,674	14,558	-2.3	-0.8
50.0-89.9 percent ³	26,705	26,252	26,966	1.0	2.7
Whey protein isolates ⁴	9,767	9,910	9,348	-4.3	-5.7
Lactose, human and animal	93,634	94,011	93,464	-0.2	-0.6
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	83,743	66,247	76,397	-8.8	15.3
Dry whey, animal	1,832	2,245	2,535	38.4	12.9
Dry whey, total	85,575	68,492	78,932	-7.8	15.2
Reduced Lactose and minerals					
Human and animal ⁶	6,907	4,538	4,457	-35.5	-1.8
Whey protein concentrate					
Human ²	67,289	74,945	70,225	4.4	-6.3
Animal ²	899	792	767	-14.7	-3.2
Total ²	68,188	75,737	70,992	4.1	-6.3
25.0-49.9 percent ³	25,144	24,046	20,606	-18.0	-14.3
50.0-89.9 percent ³	43,044	51,691	50,386	17.1	-2.5
Whey protein isolates ⁴	25,470	25,270	25,305	-0.6	0.1
Lactose, human and animal	131,593	110,314	109,599	-16.7	-0.6
	(cents per pound)	(cents per pound)	(cents per pound)	(cents change)	(cents change)
Manufacturers' selling price ⁷					
Dry whey, animal	24.7	15.0	22.2	-2.5	7.2

- Represents zero.

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:
May 2017 and 2018**

Product	May 2017	April 2018	May 2018	Change from	
				May 2017	April 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Production					
Bulk condensed milk					
Skim, unsweetened	152,062	134,225	143,782	-5.4	7.1
Dry milk products					
Dry buttermilk, total	9,362	10,139	10,882	16.2	7.3
Dry skim milk, animal	1,115	1,347	1,403	25.8	4.2
Dry whole milk	7,473	13,912	25,445	240.5	82.9
Milk protein concentrate, total ¹	14,785	15,863	17,420	17.8	9.8
Nonfat dry milk, human	167,910	163,859	160,393	-4.5	-2.1
Skim milk powder, total ²	51,012	49,446	50,365	-1.3	1.9
Manufacturers' stocks end-of-month ³					
Dry milk products					
Dry buttermilk, total	20,672	23,177	18,772	-9.2	-19.0
Dry skim milk, animal	1,915	3,353	3,151	64.5	-6.0
Dry whole milk	22,961	47,243	59,496	159.1	25.9
Nonfat dry milk, human	280,078	273,346	271,447	-3.1	-0.7
Manufacturers' shipments ⁴					
Dry milk products					
Nonfat dry milk, human	141,576	190,012	147,281	4.0	-22.5

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

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

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	1,091,642	1.4	5,227,720	5,355,958	2.5
June	1,045,875			6,273,595		
July	1,051,675			7,325,270		
August	1,046,041			8,371,311		
September	1,024,757			9,396,068		
October	1,086,865			10,482,933		
November	1,070,668			11,553,601		
December	1,105,490			12,659,091		
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	442,714	-0.1	2,132,239	2,160,496	1.3
June	419,260			2,551,499		
July	414,495			2,965,994		
August	414,280			3,380,274		
September	403,544			3,783,818		
October	430,485			4,214,303		
November	413,714			4,628,017		
December	443,974			5,071,991		
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	317,523	-3.0	1,599,405	1,569,025	-1.9
June	302,090			1,901,495		
July	298,285			2,199,780		
August	298,306			2,498,086		
September	291,755			2,789,841		
October	307,833			3,097,674		
November	296,598			3,394,272		
December	327,062			3,721,334		

See footnote(s) at end of table.

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

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

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	457,184	1.1	2,231,076	2,294,606	2.8
June	450,027			2,681,103		
July	451,922			3,133,025		
August	437,003			3,570,028		
September	432,619			4,002,647		
October	454,641			4,457,288		
November	456,821			4,914,109		
December	469,755			5,383,864		
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	356,349	1.7	1,726,667	1,775,739	2.8
June	349,363			2,076,030		
July	352,014			2,428,044		
August	335,867			2,763,911		
September	332,180			3,096,091		
October	347,688			3,443,779		
November	351,511			3,795,290		
December	365,309			4,160,599		
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	6,472	-1.3	33,934	30,030	-11.5
June	7,009			40,943		
July	6,055			46,998		
August	5,634			52,632		
September	6,747			59,379		
October	6,271			65,650		
November	7,247			72,897		
December	6,351			79,248		

See footnote(s) at end of table.

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

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

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	167,911	2.8	841,447	877,458	4.3
June	139,200			980,647		
July	135,625			1,116,272		
August	131,152			1,247,424		
September	134,552			1,381,976		
October	144,671			1,526,647		
November	149,721			1,676,368		
December	171,105			1,847,473		
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	160,393	-4.5	798,726	821,080	2.8
June	162,814			961,540		
July	151,825			1,113,365		
August	136,753			1,250,118		
September	134,572			1,384,690		
October	145,008			1,529,698		
November	141,440			1,671,138		
December	164,014			1,835,152		
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			290,407		
July	47,842			338,249		
August	44,813			383,062		
September	29,102			412,164		
October	25,965			438,129		
November	41,609			479,738		
December	49,895			529,633		

See footnote(s) at end of table.

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

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

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	85,581	3.2	414,429	441,301	6.5
June	88,064			502,493		
July	100,402			602,895		
August	94,276			697,171		
September	91,302			788,473		
October	80,750			869,223		
November	81,657			950,880		
December	86,024			1,036,904		
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	93,464	-0.2	461,922	468,253	1.4
June	96,082			558,004		
July	98,117			656,121		
August	96,679			752,800		
September	94,903			847,703		
October	93,098			940,801		
November	86,105			1,026,906		
December	97,251			1,124,157		
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	41,524	-0.2	202,467	210,234	3.8
June	40,297			242,764		
July	41,192			283,956		
August	38,339			322,295		
September	38,720			361,015		
October	40,796			401,811		
November	40,551			442,362		
December	41,914			484,276		

See footnote(s) at end of table.

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

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

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	32,826	11.1	136,310	147,111	7.9
June	27,626			163,936		
July	28,007			191,943		
August	30,434			222,377		
September	27,146			249,523		
October	28,829			278,352		
November	26,066			304,418		
December	26,066			330,484		
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	31,591	-0.5	148,864	147,188	-1.1
June	27,924			176,788		
July	28,450			205,238		
August	31,370			236,608		
September	27,396			264,004		
October	29,205			293,209		
November	26,060			319,269		
December	25,152			344,421		
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	118,107	-0.7	557,814	563,975	1.1
June	117,764			675,578		
July	107,401			782,979		
August	118,709			901,688		
September	108,314			1,010,002		
October	126,023			1,136,025		
November	129,312			1,265,337		
December	121,812			1,387,149		

See footnote(s) at end of table.

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

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

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	65,702	-9.0	331,534	303,820	-8.4
June	74,788			406,322		
July	69,394			475,716		
August	73,596			549,312		
September	60,596			609,908		
October	56,616			666,524		
November	49,618			716,142		
December	46,520			762,662		
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	45,619	-0.3	201,551	192,306	-4.6
June	45,860			247,411		
July	42,769			290,180		
August	43,344			333,524		
September	35,226			368,750		
October	34,566			403,316		
November	27,946			431,262		
December	28,552			459,814		
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	3,539	-1.2	17,440	16,455	-5.6
June	3,819			21,259		
July	3,319			24,578		
August	3,697			28,275		
September	3,282			31,557		
October	2,542			34,099		
November	2,352			36,451		
December	2,181			38,632		

See footnote(s) at end of table.

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

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

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	373,909	-2.9	1,923,740	1,864,136	-3.1
June	376,335			2,300,075		
July	349,529			2,649,604		
August	396,182			3,045,786		
September	393,654			3,439,440		
October	368,558			3,807,998		
November	317,564			4,125,562		
December	352,746			4,478,308		
	(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	5,382	-6.7	29,797	26,852	-9.9
June	5,609			35,406		
July	5,192			40,598		
August	5,653			46,251		
September	4,557			50,808		
October	4,152			54,960		
November	4,070			59,030		
December	3,514			62,544		

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: May 2017 and 2018

State	May 2017	April 2018	May 2018	Change from	
				May 2017	April 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	219,599	210,730	216,838	-1.3	2.9
Idaho	79,063	85,558	77,430	-2.1	-9.5
Illinois	6,877	6,766	7,230	5.1	6.9
Iowa	21,629	24,042	25,386	17.4	5.6
Minnesota	62,872	61,934	62,480	-0.6	0.9
New Jersey	4,499	4,586	4,466	-0.7	-2.6
New Mexico	66,093	73,790	75,472	14.2	2.3
Ohio	18,984	19,017	20,056	5.6	5.5
Oregon	17,582	17,669	17,297	-1.6	-2.1
Pennsylvania	33,412	35,521	36,659	9.7	3.2
South Dakota	24,238	24,010	24,821	2.4	3.4
Vermont	12,266	12,328	12,368	0.8	0.3
Wisconsin	286,036	284,229	287,481	0.5	1.1
Other States ¹	223,021	213,258	223,658	0.3	4.9
United States	1,076,171	1,073,438	1,091,642	1.4	1.7
Atlantic	130,735	124,902	132,707	1.5	6.2
Central	497,881	493,846	503,582	1.1	2.0
West	447,555	454,690	455,353	1.7	0.1

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

American Cheese Production – States and United States: May 2017 and 2018

State	May 2017	April 2018	May 2018	Change from	
				May 2017	April 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	56,003	52,790	53,669	-4.2	1.7
Idaho	53,992	56,079	50,463	-6.5	-10.0
Iowa	13,207	14,555	16,759	26.9	15.1
Oregon	17,497	17,595	17,218	-1.6	-2.1
Wisconsin	89,439	87,744	87,900	-1.7	0.2
Other States ¹	212,945	214,494	216,705	1.8	1.0
United States	443,083	443,257	442,714	-0.1	-0.1
Atlantic	28,420	27,999	27,892	-1.9	-0.4
Central	224,815	220,149	223,854	-0.4	1.7
West	189,848	195,109	190,968	0.6	-2.1

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

Cheddar Cheese Production – States and United States: May 2017 and 2018

State	May 2017	April 2018	May 2018	Change from	
				May 2017	April 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	30,929	23,830	29,907	-3.3	25.5
Idaho	44,545	46,346	36,973	-17.0	-20.2
Iowa	7,192	8,771	10,675	48.4	21.7
Minnesota	48,949	47,488	46,805	-4.4	-1.4
Oregon	15,459	15,202	14,493	-6.2	-4.7
Vermont	8,924	8,786	8,412	-5.7	-4.3
Wisconsin	62,242	62,641	60,700	-2.5	-3.1
Other States ¹	109,216	105,785	109,558	0.3	3.6
United States	327,456	318,849	317,523	-3.0	-0.4
Atlantic	27,084	26,988	26,201	-3.3	-2.9
Central	162,422	158,736	159,200	-2.0	0.3
West	137,950	133,125	132,122	-4.2	-0.8

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: May 2017 and 2018

State	May 2017	April 2018	May 2018	Change from	
				May 2017	April 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	141,544	138,332	139,620	-1.4	0.9
Idaho	18,973	23,602	20,432	7.7	-13.4
Pennsylvania	22,395	21,703	22,023	-1.7	1.5
Wisconsin	140,503	143,779	145,477	3.5	1.2
Other States ¹	128,917	127,782	129,632	0.6	1.4
United States	452,332	455,198	457,184	1.1	0.4
Atlantic	56,454	52,244	53,559	-5.1	2.5
Central	183,504	187,653	189,973	3.5	1.2
West	212,374	215,301	213,652	0.6	-0.8

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

Mozzarella Cheese Production – States and United States: May 2017 and 2018

State	May 2017	April 2018	May 2018	Change from	
				May 2017	April 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	130,085	124,366	127,707	-1.8	2.7
Idaho	17,971	22,688	19,778	10.1	-12.8
Pennsylvania	19,613	19,111	19,225	-2.0	0.6
Wisconsin	91,697	95,310	96,000	4.7	0.7
Other States ¹	91,164	92,250	93,639	2.7	1.5
United States	350,530	353,725	356,349	1.7	0.7
Atlantic	37,533	34,033	35,475	-5.5	4.2
Central	114,744	120,907	122,098	6.4	1.0
West	198,253	198,785	198,776	0.3	-

- 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: May 2017 and 2018

State	May 2017	April 2018	May 2018	Change from	
				May 2017	April 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	45,828	53,467	50,671	10.6	-5.2
Pennsylvania	8,990	8,582	8,602	-4.3	0.2
Other States ¹	108,579	113,248	108,638	0.1	-4.1
United States	163,397	175,297	167,911	2.8	-4.2
Atlantic	18,883	19,059	18,448	-2.3	-3.2
Central	70,705	73,649	68,561	-3.0	-6.9
West	73,809	82,589	80,902	9.6	-2.0

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: May 2017 and 2018

State	May 2017	April 2018	May 2018	Change from	
				May 2017	April 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	41,683	53,289	48,695	16.8	-8.6
Pennsylvania	18,242	18,681	19,029	4.3	1.9
Other States ¹	107,985	91,889	92,669	-14.2	0.8
United States	167,910	163,859	160,393	-4.5	-2.1
Atlantic	37,114	35,965	38,177	2.9	6.2
Central	33,161	33,119	27,043	-18.4	-18.3
West	97,635	94,775	95,173	-2.5	0.4

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: May 2017 and 2018

State	May 2017	April 2018	May 2018	Change from	
				May 2017	April 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Wisconsin	29,453	29,501	28,396	-3.6	-3.7
Other States ¹	52,383	54,416	55,164	5.3	1.4
United States	81,836	83,917	83,560	2.1	-0.4
Atlantic	23,006	22,354	22,467	-2.3	0.5
Central	41,993	41,020	40,347	-3.9	-1.6
West	16,837	20,543	20,746	23.2	1.0

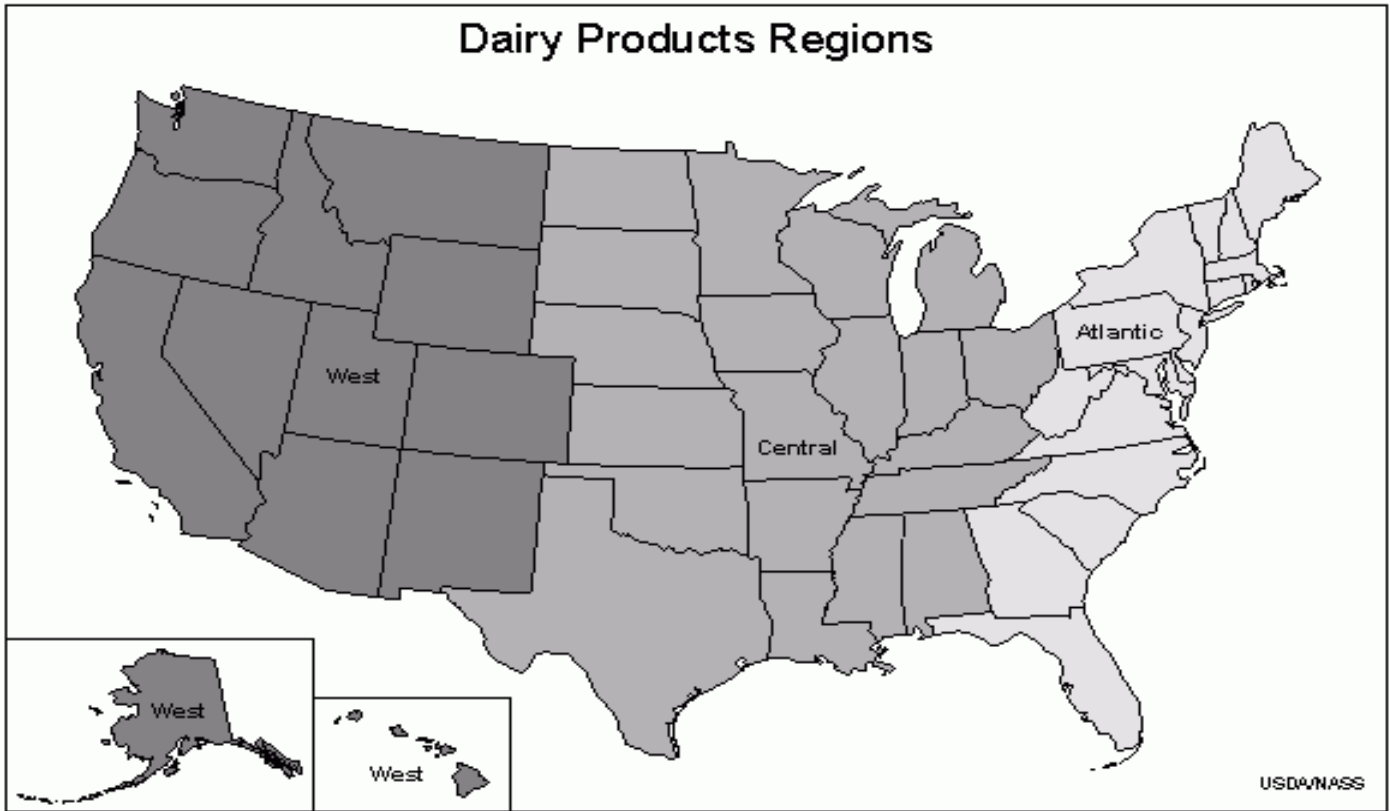
¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Ice Cream, Regular (Hard) Production – States and United States: May 2017 and 2018

State	May 2017	April 2018	May 2018	Change from	
				May 2017	April 2018
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
California	10,826	5,606	6,161	-43.1	9.9
Connecticut	1,352	1,101	1,240	-8.3	12.6
Missouri	3,582	3,295	3,367	-6.0	2.2
Ohio	2,579	2,529	2,622	1.7	3.7
Oregon	1,209	1,355	1,386	14.6	2.3
Pennsylvania	3,772	3,327	3,806	0.9	14.4
Tennessee	2,382	1,603	1,972	-17.2	23.0
Utah	2,346	2,768	3,064	30.6	10.7
Other States ¹	44,119	42,017	42,084	-4.6	0.2
United States	72,167	63,601	65,702	-9.0	3.3
Atlantic	15,684	14,956	16,495	5.2	10.3
Central	39,907	36,780	36,383	-8.8	-1.1
West	16,576	11,865	12,824	-22.6	8.1

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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- All reports are available electronically, at no cost, on the NASS web site: www.nass.usda.gov
- 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.

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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