



Dairy Products

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April 2018 Highlights

Total cheese output (excluding cottage cheese) was 1.07 billion pounds, 0.9 percent above April 2017 but 3.7 percent below March 2018.

Italian type cheese production totaled 452 million pounds, 0.8 percent above April 2017 but 6.2 percent below March 2018.

American type cheese production totaled 441 million pounds, 1.4 percent above April 2017 but 0.6 percent below March 2018.

Butter production was 175 million pounds, 8.3 percent above April 2017 but 3.7 percent below March 2018.

Dry milk products (comparisons in percentage with April 2017)

Nonfat dry milk, human - 166 million pounds, down 3.8 percent.

Skim milk powder - 49.3 million pounds, down 1.8 percent.

Whey products (comparisons in percentage with April 2017)

Dry whey, total - 85.3 million pounds, up 0.7 percent.

Lactose, human and animal - 93.9 million pounds, down 2.5 percent.

Whey protein concentrate, total - 40.7 million pounds, down 3.3 percent.

Frozen products (comparisons in percentage with April 2017)

Ice cream, regular (hard) - 63.6 million gallons, down 8.8 percent.

Ice cream, lowfat (total) - 39.8 million gallons, down 3.6 percent.

Sherbet (hard) - 3.65 million gallons, down 3.5 percent.

Frozen yogurt (total) - 5.57 million gallons, down 12.8 percent.

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

Product	April 2017	March 2018	April 2018	Change from	
				April 2017	March 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Butter	161,956	182,046	175,331	8.3	-3.7
Cheese					
American types ¹	434,657	443,491	440,848	1.4	-0.6
Cheddar	329,671	321,144	318,156	-3.5	-0.9
Other American types	104,986	122,347	122,692	16.9	0.3
Blue and Gorgonzola	7,877	8,264	7,898	0.3	-4.4
Brick and Muenster	16,418	15,269	15,775	-3.9	3.3
Cream and Neufchatel	71,754	74,054	71,357	-0.6	-3.6
Feta	11,216	11,298	11,147	-0.6	-1.3
Gouda	5,096	6,111	4,703	-7.7	-23.0
Hispanic	23,730	25,725	23,446	-1.2	-8.9
Italian types	447,937	481,404	451,559	0.8	-6.2
Mozzarella	347,399	371,264	351,061	1.1	-5.4
Parmesan	38,243	41,082	37,781	-1.2	-8.0
Provolone	33,023	34,022	34,319	3.9	0.9
Ricotta	17,632	23,208	17,749	0.7	-23.5
Romano	4,974	5,368	4,683	-5.9	-12.8
Other Italian types	6,666	6,460	5,966	-10.5	-7.6
Swiss	26,383	28,912	27,602	4.6	-4.5
All other types	12,780	13,861	13,348	4.4	-3.7
Total cheese ²	1,057,848	1,108,389	1,067,683	0.9	-3.7
Cottage cheese, curd ³	32,599	35,261	32,511	-0.3	-7.8
Cottage cheese, cream ⁴	25,942	32,696	29,052	12.0	-11.1
Cottage cheese, lowfat ⁵	29,610	31,348	29,947	1.1	-4.5
Sour cream	109,615	116,393	111,982	2.2	-3.8
Yogurt, plain and flavored	375,287	390,586	358,686	-4.4	-8.2
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
Frozen products					
Ice cream, regular, hard	69,711	64,388	63,578	-8.8	-1.3
Ice cream, lowfat, hard	19,489	20,740	20,621	5.8	-0.6
Ice cream, lowfat, soft	21,804	20,528	19,203	-11.9	-6.5
Ice cream, lowfat, total ⁶	41,293	41,268	39,824	-3.6	-3.5
Ice cream, nonfat, hard	722	854	584	-19.1	-31.6
Sherbet, hard	3,788	3,292	3,654	-3.5	11.0
Frozen yogurt, total	6,391	6,583	5,574	-12.8	-15.3
Regular and lowfat, hard	2,501	1,994	1,826	-27.0	-8.4
Nonfat, hard	675	773	533	-21.0	-31.0
Other frozen dairy products	2,225	1,957	2,273	2.2	16.1
Water and juice ices	5,947	6,667	6,497	9.2	-2.5
Mix for frozen products					
Ice cream, regular, mix	42,157	38,241	39,217	-7.0	2.6
Ice cream, lowfat, mix ⁷	22,729	23,208	22,352	-1.7	-3.7
Ice cream, nonfat, mix	578	782	559	-3.3	-28.5
Sherbet mix	2,518	2,150	2,449	-2.7	13.9
Yogurt mix	3,354	3,268	3,010	-10.3	-7.9

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:
April 2017 and 2018**

Product	April 2017	March 2018	April 2018	Change from	
				April 2017	March 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Condensed whey, solids content ¹					
Sweet-type, human	9,529	7,018	6,649	-30.2	-5.3
Dry whey products					
Dry whey, human	82,987	89,136	84,088	1.3	-5.7
Dry whey, animal	1,653	1,517	1,162	-29.7	-23.4
Dry whey, total	84,640	90,653	85,250	0.7	-6.0
Reduced lactose and minerals					
Human	2,384	2,401	2,258	-5.3	-6.0
Animal	2,885	2,753	3,146	9.0	14.3
Whey protein concentrate					
Human ²	41,519	43,763	40,328	-2.9	-7.8
Animal ²	543	1,169	347	-36.1	-70.3
Total ²	42,062	44,932	40,675	-3.3	-9.5
25.0-49.9 percent ³	16,450	14,917	14,571	-11.4	-2.3
50.0-89.9 percent ³	25,612	30,015	26,104	1.9	-13.0
Whey protein isolates ⁴	9,415	10,444	10,027	6.5	-4.0
Lactose, human and animal	96,265	99,650	93,872	-2.5	-5.8
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	83,513	73,988	66,779	-20.0	-9.7
Dry whey, animal	1,978	1,074	1,893	-4.3	76.3
Dry whey, total	85,491	75,062	68,672	-19.7	-8.5
Reduced Lactose and minerals					
Human and animal ⁶	5,871	4,389	4,568	-22.2	4.1
Whey protein concentrate					
Human ²	64,259	77,857	74,374	15.7	-4.5
Animal ²	855	1,075	789	-7.7	-26.6
Total ²	65,114	78,932	75,163	15.4	-4.8
25.0-49.9 percent ³	24,976	23,758	23,059	-7.7	-2.9
50.0-89.9 percent ³	40,138	55,174	52,104	29.8	-5.6
Whey protein isolates ⁴	24,504	26,258	25,432	3.8	-3.1
Lactose, human and animal	116,204	116,087	110,888	-4.6	-4.5
	(cents per pound)	(cents per pound)	(cents per pound)	(cents change)	(cents change)
Manufacturers' selling price ⁷					
Dry whey, animal	37.9	14.2	15.0	-22.9	0.8

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:
April 2017 and 2018**

Product	April 2017	March 2018	April 2018	Change from	
				April 2017	March 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Production					
Bulk condensed milk					
Skim, unsweetened	141,928	136,861	134,862	-5.0	-1.5
Dry milk products					
Dry buttermilk, total	8,733	12,347	10,139	16.1	-17.9
Dry skim milk, animal	1,098	1,019	1,338	21.9	31.3
Dry whole milk	7,069	21,876	14,240	101.4	-34.9
Milk protein concentrate, total ¹	16,132	13,277	16,023	-0.7	20.7
Nonfat dry milk, human	172,821	178,694	166,293	-3.8	-6.9
Skim milk powder, total ²	50,206	42,055	49,316	-1.8	17.3
Manufacturers' stocks end-of-month ³					
Dry milk products					
Dry buttermilk, total	25,424	25,934	23,178	-8.8	-10.6
Dry skim milk, animal	2,622	2,925	3,406	29.9	16.4
Dry whole milk	23,060	46,035	47,296	105.1	2.7
Nonfat dry milk, human	267,375	297,870	273,964	2.5	-8.0
Manufacturers' shipments ⁴					
Dry milk products					
Nonfat dry milk, human	137,302	165,779	191,499	39.5	15.5

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	1,067,683	0.9	4,151,549	4,258,561	2.6
May	1,076,171			5,227,720		
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	440,848	1.4	1,689,156	1,715,373	1.6
May	443,083			2,132,239		
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	318,156	-3.5	1,271,949	1,250,809	-1.7
May	327,456			1,599,405		
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	451,559	0.8	1,778,744	1,833,783	3.1
May	452,332			2,231,076		
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	351,061	1.1	1,376,137	1,416,726	2.9
May	350,530			1,726,667		
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	5,966	-10.5	27,378	23,655	-13.6
May	6,556			33,934		
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	175,331	8.3	678,050	709,581	4.7
May	163,397			841,447		
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	166,293	-3.8	630,816	663,121	5.1
May	167,910			798,726		
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	49,316	-1.8	199,880	174,790	-12.6
May	51,012			250,892		
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	85,250	0.7	331,479	355,821	7.3
May	82,950			414,429		
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	93,872	-2.5	368,288	374,650	1.7
May	93,634			461,922		
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	40,675	-3.3	160,855	168,459	4.7
May	41,612			202,467		
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	29,052	12.0	106,772	114,226	7.0
May	29,538			136,310		
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	29,947	1.1	117,118	115,729	-1.2
May	31,746			148,864		
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	111,982	2.2	438,930	445,972	1.6
May	118,884			557,814		
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	63,578	-8.8	259,367	238,095	-8.2
May	72,167			331,534		
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	39,824	-3.6	155,779	146,182	-6.2
May	45,772			201,551		
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			17,440		
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	358,686	-4.4	1,538,483	1,490,330	-3.1
May	385,257			1,923,740		
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	5,574	-12.8	24,026	21,398	-10.9
May	5,771			29,797		
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: April 2017 and 2018

State	April 2017	March 2018	April 2018	Change from	
				April 2017	March 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	210,455	215,738	210,677	0.1	-2.3
Idaho	89,328	86,104	86,006	-3.7	-0.1
Illinois	6,533	7,349	6,766	3.6	-7.9
Iowa	23,168	24,076	24,738	6.8	2.7
Minnesota	59,844	63,393	61,364	2.5	-3.2
New Jersey	4,877	5,552	4,586	-6.0	-17.4
New Mexico	64,331	76,063	73,801	14.7	-3.0
Ohio	17,869	20,122	19,032	6.5	-5.4
Oregon	17,155	17,167	17,669	3.0	2.9
Pennsylvania	34,847	37,253	35,486	1.8	-4.7
South Dakota	23,514	25,406	24,012	2.1	-5.5
Vermont	11,571	12,020	12,330	6.6	2.6
Wisconsin	279,943	290,226	277,919	-0.7	-4.2
Other States ¹	214,413	227,920	213,297	-0.5	-6.4
United States	1,057,848	1,108,389	1,067,683	0.9	-3.7
Atlantic	125,883	139,672	124,908	-0.8	-10.6
Central	486,884	506,170	487,679	0.2	-3.7
West	445,081	462,547	455,096	2.3	-1.6

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

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

State	April 2017	March 2018	April 2018	Change from	
				April 2017	March 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	51,243	54,775	52,790	3.0	-3.6
Idaho	58,058	52,554	56,075	-3.4	6.7
Iowa	13,710	12,784	14,555	6.2	13.9
Oregon	17,082	17,094	17,595	3.0	2.9
Wisconsin	87,344	88,783	85,600	-2.0	-3.6
Other States ¹	207,220	217,501	214,233	3.4	-1.5
United States	434,657	443,491	440,848	1.4	-0.6
Atlantic	26,954	28,749	28,033	4.0	-2.5
Central	220,206	219,904	217,710	-1.1	-1.0
West	187,497	194,838	195,105	4.1	0.1

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

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

State	April 2017	March 2018	April 2018	Change from	
				April 2017	March 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	29,808	26,787	23,830	-20.1	-11.0
Idaho	49,023	42,244	46,342	-5.5	9.7
Iowa	9,054	8,306	8,771	-3.1	5.6
Minnesota	46,643	48,452	47,228	1.3	-2.5
Oregon	14,729	13,454	15,202	3.2	13.0
Vermont	8,371	8,755	8,786	5.0	0.4
Wisconsin	61,629	64,055	62,200	0.9	-2.9
Other States ¹	110,414	109,091	105,797	-4.2	-3.0
United States	329,671	321,144	318,156	-3.5	-0.9
Atlantic	25,870	27,542	27,003	4.4	-2.0
Central	161,985	160,971	158,032	-2.4	-1.8
West	141,816	132,631	133,121	-6.1	0.4

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: April 2017 and 2018

State	April 2017	March 2018	April 2018	Change from	
				April 2017	March 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	138,306	138,294	138,332	-	-
Idaho	24,597	28,091	23,602	-4.0	-16.0
Pennsylvania	20,954	22,883	21,665	3.4	-5.3
Wisconsin	137,154	149,911	140,447	2.4	-6.3
Other States ¹	126,926	142,225	127,513	0.5	-10.3
United States	447,937	481,404	451,559	0.8	-6.2
Atlantic	55,015	61,723	52,208	-5.1	-15.4
Central	178,024	198,203	184,039	3.4	-7.1
West	214,898	221,478	215,312	0.2	-2.8

- 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: April 2017 and 2018

State	April 2017	March 2018	April 2018	Change from	
				April 2017	March 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	124,453	126,392	124,366	-0.1	-1.6
Idaho	23,568	27,198	22,688	-3.7	-16.6
Pennsylvania	18,310	19,591	19,111	4.4	-2.5
Wisconsin	89,473	98,072	92,500	3.4	-5.7
Other States ¹	91,595	100,011	92,396	0.9	-7.6
United States	347,399	371,264	351,061	1.1	-5.4
Atlantic	36,737	39,371	34,033	-7.4	-13.6
Central	112,443	125,166	118,232	5.1	-5.5
West	198,219	206,727	198,796	0.3	-3.8

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

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

State	April 2017	March 2018	April 2018	Change from	
				April 2017	March 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	48,027	59,004	53,467	11.3	-9.4
Pennsylvania	8,297	8,055	8,582	3.4	6.5
Other States ¹	105,632	114,987	113,282	7.2	-1.5
United States	161,956	182,046	175,331	8.3	-3.7
Atlantic	18,374	19,392	19,052	3.7	-1.8
Central	67,863	71,518	73,690	8.6	3.0
West	75,719	91,136	82,589	9.1	-9.4

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: April 2017 and 2018

State	April 2017	March 2018	April 2018	Change from	
				April 2017	March 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	56,497	69,665	53,289	-5.7	-23.5
Pennsylvania	18,379	18,041	18,681	1.6	3.5
Other States ¹	97,945	90,988	94,323	-3.7	3.7
United States	172,821	178,694	166,293	-3.8	-6.9
Atlantic	37,393	36,128	37,670	0.7	4.3
Central	33,034	26,969	33,846	2.5	25.5
West	102,394	115,597	94,777	-7.4	-18.0

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: April 2017 and 2018

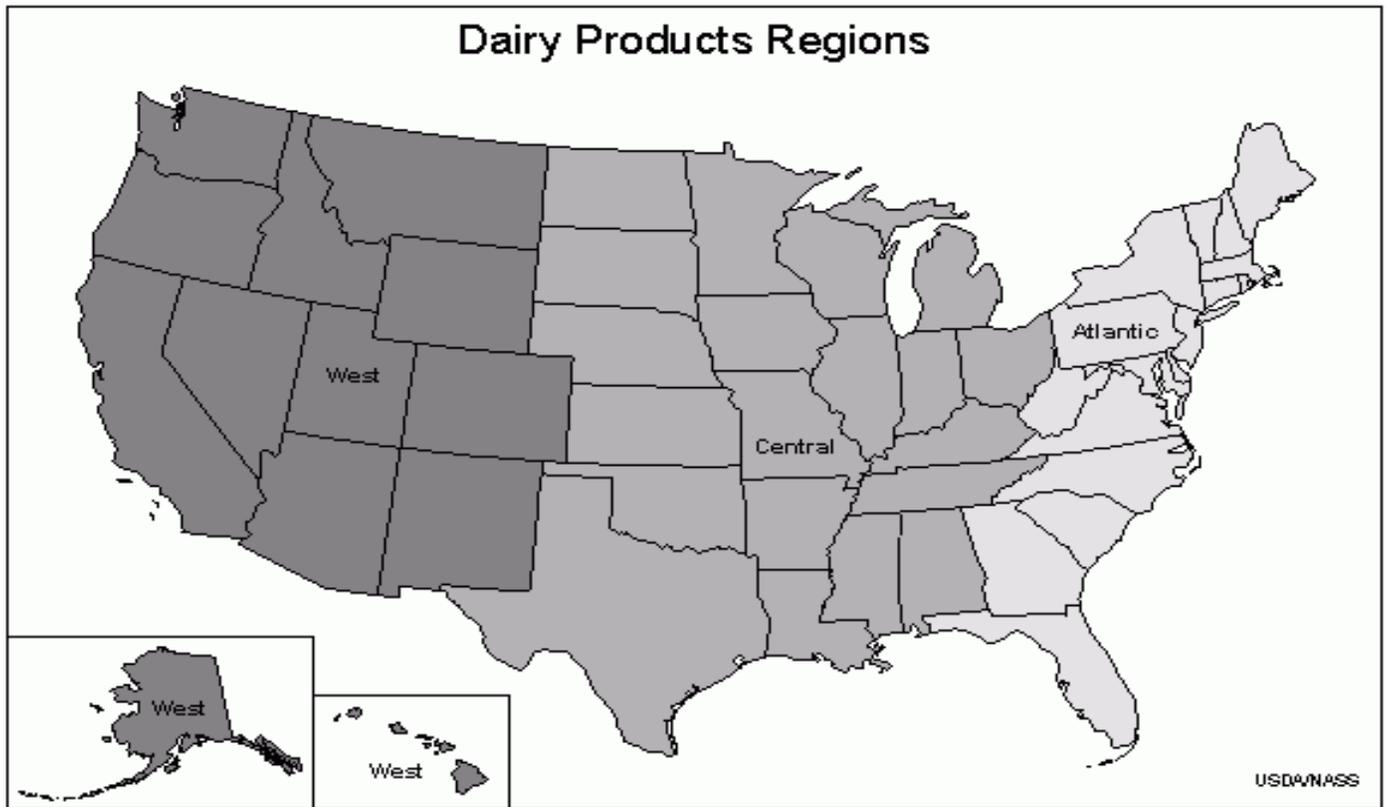
State	April 2017	March 2018	April 2018	Change from	
				April 2017	March 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Wisconsin	29,590	32,666	29,501	-0.3	-9.7
Other States ¹	53,397	56,470	54,587	2.2	-3.3
United States	82,987	89,136	84,088	1.3	-5.7
Atlantic	22,191	21,922	22,354	0.7	2.0
Central	41,680	45,747	41,191	-1.2	-10.0
West	19,116	21,467	20,543	7.5	-4.3

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: April 2017 and 2018

State	April 2017	March 2018	April 2018	Change from	
				April 2017	March 2018
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
California	10,201	6,481	5,601	-45.1	-13.6
Connecticut	1,081	1,254	1,087	0.6	-13.3
Missouri	2,977	3,906	3,295	10.7	-15.6
Ohio	2,142	2,232	2,529	18.1	13.3
Oregon	1,095	1,192	1,355	23.7	13.7
Pennsylvania	3,157	3,223	3,321	5.2	3.0
Tennessee	2,603	2,200	1,603	-38.4	-27.1
Utah	2,728	2,807	2,768	1.5	-1.4
Other States ¹	43,727	41,093	42,019	-3.9	2.3
United States	69,711	64,388	63,578	-8.8	-1.3
Atlantic	13,637	15,125	14,938	9.5	-1.2
Central	39,959	36,745	36,780	-8.0	0.1
West	16,115	12,518	11,860	-26.4	-5.3

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



- 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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- 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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