



Dairy Products

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February 2018 Highlights

Total cheese output (excluding cottage cheese) was 982 million pounds, 4.2 percent above February 2017 but 10.5 percent below January 2018.

Italian type cheese production totaled 424 million pounds, 4.3 percent above February 2017 but 10.6 percent below January 2018.

American type cheese production totaled 397 million pounds, 6.1 percent above February 2017 but 8.5 percent below January 2018.

Butter production was 169 million pounds, 4.7 percent above February 2017 but 7.4 percent below January 2018.

Dry milk products (comparisons in percentage with February 2017)

Nonfat dry milk, human - 159 million pounds, up 12.1 percent.

Skim milk powder - 36.5 million pounds, down 8.9 percent.

Whey products (comparisons in percentage with February 2017)

Dry whey, total - 89.4 million pounds, up 14.6 percent.

Lactose, human and animal - 86.8 million pounds, up 2.3 percent.

Whey protein concentrate, total - 39.9 million pounds, up 10.7 percent.

Frozen products (comparisons in percentage with February 2017)

Ice cream, regular (hard) - 55.5 million gallons, down 5.8 percent.

Ice cream, lowfat (total) - 35.2 million gallons, up 3.5 percent.

Sherbet (hard) - 2.88 million gallons, up 6.4 percent.

Frozen yogurt (total) - 4.62 million gallons, down 9.8 percent.

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

Product	February 2017	January 2018	February 2018	Change from	
				February 2017	January 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Butter	161,052	182,088	168,627	4.7	-7.4
Cheese					
American types ¹	373,688	433,670	396,642	6.1	-8.5
Cheddar	275,988	318,254	291,774	5.7	-8.3
Other American types	97,700	115,416	104,868	7.3	-9.1
Blue and Gorgonzola	7,314	7,380	7,111	-2.8	-3.6
Brick and Muenster	13,318	15,580	14,276	7.2	-8.4
Cream and Neufchatel	67,226	84,978	66,055	-1.7	-22.3
Feta	9,504	9,890	9,271	-2.5	-6.3
Gouda	5,995	5,072	4,695	-21.7	-7.4
Hispanic	21,706	22,884	21,351	-1.6	-6.7
Italian types	406,570	474,348	423,922	4.3	-10.6
Mozzarella	314,758	366,988	325,870	3.5	-11.2
Parmesan	32,439	41,446	38,066	17.3	-8.2
Provolone	28,912	32,706	29,401	1.7	-10.1
Ricotta	19,097	22,985	20,215	5.9	-12.1
Romano	5,071	4,674	4,703	-7.3	0.6
Other Italian types	6,293	5,549	5,667	-9.9	2.1
Swiss	23,982	28,335	25,033	4.4	-11.7
All other types	13,058	14,383	13,288	1.8	-7.6
Total cheese ²	942,361	1,096,520	981,644	4.2	-10.5
Cottage cheese, curd ³	31,778	30,379	31,008	-2.4	2.1
Cottage cheese, cream ⁴	26,208	25,546	26,960	2.9	5.5
Cottage cheese, lowfat ⁵	28,297	26,867	27,659	-2.3	2.9
Sour cream	100,873	118,603	99,136	-1.7	-16.4
Yogurt, plain and flavored	363,051	365,342	367,847	1.3	0.7
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
Frozen products					
Ice cream, regular, hard	58,971	54,718	55,527	-5.8	1.5
Ice cream, lowfat, hard	17,000	15,740	19,006	11.8	20.7
Ice cream, lowfat, soft	17,035	15,501	16,210	-4.8	4.6
Ice cream, lowfat, total	34,035	31,241	35,216	3.5	12.7
Ice cream, nonfat, hard	650	728	552	-15.1	-24.2
Sherbet, hard	2,710	2,975	2,884	6.4	-3.1
Frozen yogurt, total	5,124	4,617	4,624	-9.8	0.2
Regular and lowfat, hard	1,973	1,847	1,350	-31.6	-26.9
Nonfat, hard	386	363	509	31.9	40.2
Other frozen dairy products	666	2,008	1,665	150.0	-17.1
Water and juice ices	5,609	4,070	5,248	-6.4	28.9
Mix for frozen products					
Ice cream, regular, mix	35,413	31,839	33,487	-5.4	5.2
Ice cream, lowfat, mix	19,148	17,566	19,710	2.9	12.2
Ice cream, nonfat, mix	557	518	504	-9.5	-2.7
Sherbet mix	1,804	1,776	1,966	9.0	10.7
Yogurt mix	3,168	2,377	2,696	-14.9	13.4

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:
February 2017 and 2018**

Product	February 2017	January 2018	February 2018	Change from	
				February 2017	January 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Condensed whey, solids content ¹					
Sweet-type, human	8,513	6,733	6,793	-20.2	0.9
Dry whey products					
Dry whey, human	76,033	88,087	88,660	16.6	0.7
Dry whey, animal	1,964	2,232	752	-61.7	-66.3
Dry whey, total	77,997	90,319	89,412	14.6	-1.0
Reduced lactose and minerals					
Human	2,435	1,895	1,828	-24.9	-3.5
Animal	2,497	3,042	2,768	10.9	-9.0
Whey protein concentrate					
Human ²	35,827	43,183	39,599	10.5	-8.3
Animal ²	237	278	336	41.8	20.9
Total ²	36,064	43,461	39,935	10.7	-8.1
25.0-49.9 percent ³	13,623	16,161	13,251	-2.7	-18.0
50.0-89.9 percent ³	22,441	27,300	26,684	18.9	-2.3
Whey protein isolates ⁴	9,787	9,578	8,647	-11.6	-9.7
Lactose, human and animal	84,794	94,834	86,781	2.3	-8.5
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	69,075	89,019	87,227	26.3	-2.0
Dry whey, animal	1,927	1,199	1,378	-28.5	14.9
Dry whey, total	71,002	90,218	88,605	24.8	-1.8
Reduced Lactose and minerals					
Human and animal ⁶	5,637	4,860	4,933	-12.5	1.5
Whey protein concentrate					
Human ²	58,450	85,207	80,502	37.7	-5.5
Animal ²	595	619	698	17.3	12.8
Total ²	59,045	85,826	81,200	37.5	-5.4
25.0-49.9 percent ³	21,716	25,163	25,501	17.4	1.3
50.0-89.9 percent ³	37,329	60,663	55,699	49.2	-8.2
Whey protein isolates ⁴	23,559	28,171	26,734	13.5	-5.1
Lactose, human and animal	113,156	126,343	117,151	3.5	-7.3
	(cents per pound)	(cents per pound)	(cents per pound)	(cents change)	(cents change)
Manufacturers' selling price ⁷					
Dry whey, animal	12.5	16.3	13.2	0.7	-3.1

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:
February 2017 and 2018**

Product	February 2017	January 2018	February 2018	Change from	
				February 2017	January 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Production					
Bulk condensed milk					
Skim, unsweetened	120,315	119,029	118,528	-1.5	-0.4
Dry milk products					
Dry buttermilk, total	10,599	13,098	11,591	9.4	-11.5
Dry skim milk, animal	685	720	1,575	129.9	118.8
Dry whole milk	10,178	10,143	18,849	85.2	85.8
Milk protein concentrate, total ¹	18,875	15,596	11,596	-38.6	-25.6
Nonfat dry milk, human	141,402	160,301	158,501	12.1	-1.1
Skim milk powder, total ²	40,031	45,753	36,487	-8.9	-20.3
Manufacturers' stocks end-of-month ³					
Dry milk products					
Dry buttermilk, total	26,754	25,068	26,089	-2.5	4.1
Dry skim milk, animal	2,097	2,425	2,920	39.2	20.4
Dry whole milk	21,660	34,090	37,844	74.7	11.0
Nonfat dry milk, human	262,105	306,988	323,986	23.6	5.5
Manufacturers' shipments ⁴					
Dry milk products					
Nonfat dry milk, human	99,809	137,444	146,157	46.4	6.3

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	1,044,983	1,096,520	4.9	1,044,983	1,096,520	4.9
February	942,361	981,644	4.2	1,987,344	2,078,164	4.6
March	1,061,402			3,048,746		
April	1,042,783			4,091,529		
May	1,055,063			5,146,592		
June	1,029,638			6,176,230		
July	1,034,596			7,210,826		
August	1,028,400			8,239,226		
September	1,013,341			9,252,567		
October	1,076,849			10,329,416		
November	1,056,834			11,386,250		
December	1,091,674			12,477,924		
Total American cheese types ²						
January	417,584	433,670	3.9	417,584	433,670	3.9
February	373,688	396,642	6.1	791,272	830,312	4.9
March	415,940			1,207,212		
April	423,774			1,630,986		
May	426,550			2,057,536		
June	403,258			2,460,794		
July	400,509			2,861,303		
August	398,766			3,260,069		
September	393,892			3,653,961		
October	418,155			4,072,116		
November	402,864			4,474,980		
December	433,111			4,908,091		
Cheddar cheese						
January	311,603	318,254	2.1	311,603	318,254	2.1
February	275,988	291,774	5.7	587,591	610,028	3.8
March	309,569			897,160		
April	318,867			1,216,027		
May	311,990			1,528,017		
June	287,357			1,815,374		
July	285,133			2,100,507		
August	283,813			2,384,320		
September	282,002			2,666,322		
October	294,992			2,961,314		
November	286,466			3,247,780		
December	317,143			3,564,923		

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	454,006	474,348	4.5	454,006	474,348	4.5
February	406,570	423,922	4.3	860,576	898,270	4.4
March	469,197			1,329,773		
April	447,658			1,777,431		
May	452,567			2,229,998		
June	449,930			2,679,928		
July	451,732			3,131,660		
August	436,258			3,567,918		
September	433,570			4,001,488		
October	457,367			4,458,855		
November	455,794			4,914,649		
December	467,277			5,381,926		
Mozzarella						
January	352,375	366,988	4.1	352,375	366,988	4.1
February	314,758	325,870	3.5	667,133	692,858	3.9
March	361,564			1,028,697		
April	347,614			1,376,311		
May	350,712			1,727,023		
June	349,793			2,076,816		
July	352,474			2,429,290		
August	335,818			2,765,108		
September	333,695			3,098,803		
October	349,517			3,448,320		
November	351,504			3,799,824		
December	363,476			4,163,300		
Other Italian cheese types						
January	6,337	5,549	-12.4	6,337	5,549	-12.4
February	6,293	5,667	-9.9	12,630	11,216	-11.2
March	7,498			20,128		
April	6,544			26,672		
May	6,553			33,225		
June	6,953			40,178		
July	6,093			46,271		
August	5,719			51,990		
September	6,625			58,615		
October	6,176			64,791		
November	7,242			72,033		
December	5,996			78,029		

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	177,818	182,088	2.4	177,818	182,088	2.4
February	161,052	168,627	4.7	338,870	350,715	3.5
March	176,067			514,937		
April	162,519			677,456		
May	163,524			840,980		
June	140,157			981,137		
July	135,834			1,116,971		
August	131,188			1,248,159		
September	134,357			1,382,516		
October	143,382			1,525,898		
November	147,425			1,673,323		
December	170,188			1,843,511		
Nonfat dry milk, human						
January	153,374	160,301	4.5	153,374	160,301	4.5
February	141,402	158,501	12.1	294,776	318,802	8.2
March	159,742			454,518		
April	171,889			626,407		
May	168,325			794,732		
June	163,344			958,076		
July	148,073			1,106,149		
August	135,479			1,241,628		
September	133,485			1,375,113		
October	144,659			1,519,772		
November	142,352			1,662,124		
December	163,672			1,825,796		
Skim milk powder, total ³						
January	55,264	45,753	-17.2	55,264	45,753	-17.2
February	40,031	36,487	-8.9	95,295	82,240	-13.7
March	52,693			147,988		
April	50,206			198,194		
May	51,012			249,206		
June	39,997			289,203		
July	51,788			340,991		
August	45,793			386,784		
September	29,793			416,577		
October	25,612			442,189		
November	41,887			484,076		
December	49,895			533,971		

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	82,316	90,319	9.7	82,316	90,319	9.7
February	77,997	89,412	14.6	160,313	179,731	12.1
March	86,689			247,002		
April	84,615			331,617		
May	82,950			414,567		
June	88,064			502,631		
July	100,402			603,033		
August	94,277			697,310		
September	91,302			788,612		
October	80,728			869,340		
November	81,632			950,972		
December	83,502			1,034,474		
Lactose, human and animal						
January	92,658	94,834	2.3	92,658	94,834	2.3
February	84,794	86,781	2.3	177,452	181,615	2.3
March	97,334			274,786		
April	95,901			370,687		
May	94,919			465,606		
June	97,069			562,675		
July	99,539			662,214		
August	97,226			759,440		
September	95,016			854,456		
October	93,260			947,716		
November	86,001			1,033,717		
December	96,863			1,130,580		
Whey protein concentrate, total						
January	40,161	43,461	8.2	40,161	43,461	8.2
February	36,064	39,935	10.7	76,225	83,396	9.4
March	42,338			118,563		
April	42,890			161,453		
May	42,774			204,227		
June	40,751			244,978		
July	42,040			287,018		
August	38,106			325,124		
September	38,891			364,015		
October	41,059			405,074		
November	40,994			446,068		
December	42,675			488,743		

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	23,743	25,546	7.6	23,743	25,546	7.6
February	26,208	26,960	2.9	49,951	52,506	5.1
March	28,381			78,332		
April	25,568			103,900		
May	29,071			132,971		
June	27,754			160,725		
July	27,774			188,499		
August	30,295			218,794		
September	26,976			245,770		
October	28,867			274,637		
November	26,307			300,944		
December	26,038			326,982		
Cottage cheese, lowfat						
January	26,988	26,867	-0.4	26,988	26,867	-0.4
February	28,297	27,659	-2.3	55,285	54,526	-1.4
March	30,809			86,094		
April	29,731			115,825		
May	31,324			147,149		
June	27,804			174,953		
July	28,068			203,021		
August	31,571			234,592		
September	27,553			262,145		
October	30,270			292,415		
November	26,391			318,806		
December	25,339			344,145		
Sour cream						
January	111,173	118,603	6.7	111,173	118,603	6.7
February	100,873	99,136	-1.7	212,046	217,739	2.7
March	115,459			327,505		
April	108,816			436,321		
May	118,460			554,781		
June	117,623			672,404		
July	107,802			780,206		
August	117,657			897,863		
September	108,089			1,005,952		
October	125,192			1,131,144		
November	128,704			1,259,848		
December	121,355			1,381,203		

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	57,108	54,718	-4.2	57,108	54,718	-4.2
February	58,971	55,527	-5.8	116,079	110,245	-5.0
March	75,411			191,490		
April	69,572			261,062		
May	72,703			333,765		
June	75,426			409,191		
July	70,705			479,896		
August	73,477			553,373		
September	60,924			614,297		
October	58,215			672,512		
November	50,343			722,855		
December	49,480			772,335		
Ice cream, lowfat total						
January	28,935	31,241	8.0	28,935	31,241	8.0
February	34,035	35,216	3.5	62,970	66,457	5.5
March	41,263			104,233		
April	39,010			143,243		
May	43,609			186,852		
June	44,929			231,781		
July	42,299			274,080		
August	43,250			317,330		
September	32,551			349,881		
October	32,603			382,484		
November	26,486			408,970		
December	25,936			434,906		
Sherbet, hard						
January	3,024	2,975	-1.6	3,024	2,975	-1.6
February	2,710	2,884	6.4	5,734	5,859	2.2
March	3,530			9,264		
April	3,463			12,727		
May	3,290			16,017		
June	3,582			19,599		
July	2,978			22,577		
August	3,483			26,060		
September	3,192			29,252		
October	2,675			31,927		
November	2,777			34,704		
December	2,210			36,914		

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	374,817	365,342	-2.5	374,817	365,342	-2.5
February	363,051	367,847	1.3	737,868	733,189	-0.6
March	399,565			1,137,433		
April	368,594			1,506,027		
May	374,375			1,880,402		
June	369,950			2,250,352		
July	342,213			2,592,565		
August	388,659			2,981,224		
September	386,285			3,367,509		
October	359,744			3,727,253		
November	310,270			4,037,523		
December	355,854			4,393,377		
	(1,000 gallons)	(1,000 gallons)	(percent)	(1,000 gallons)	(1,000 gallons)	(percent)
Frozen yogurt, total						
January	4,817	4,617	-4.2	4,817	4,617	-4.2
February	5,124	4,624	-9.8	9,941	9,241	-7.0
March	7,459			17,400		
April	6,820			24,220		
May	6,056			30,276		
June	6,057			36,333		
July	5,475			41,808		
August	5,503			47,311		
September	4,899			52,210		
October	4,559			56,769		
November	4,289			61,058		
December	4,235			65,293		

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:
February 2017 and 2018**

State	February 2017	January 2018	February 2018	Change from	
				February 2017	January 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	192,068	216,779	198,756	3.5	-8.3
Idaho	68,271	85,420	72,057	5.5	-15.6
Illinois	5,877	5,533	5,538	-5.8	0.1
Iowa	20,307	22,447	20,616	1.5	-8.2
Minnesota	51,470	61,870	56,948	10.6	-8.0
New Jersey	4,086	4,888	4,078	-0.2	-16.6
New Mexico	59,402	68,293	64,770	9.0	-5.2
Ohio	17,245	21,050	18,749	8.7	-10.9
Pennsylvania	29,932	38,353	30,913	3.3	-19.4
South Dakota	21,493	25,536	23,001	7.0	-9.9
Vermont	11,077	12,199	11,431	3.2	-6.3
Wisconsin	253,988	290,411	262,936	3.5	-9.5
Other States ¹	207,145	243,741	211,851	2.3	-13.1
United States	942,361	1,096,520	981,644	4.2	-10.5
Atlantic	117,931	145,345	119,783	1.6	-17.6
Central	431,532	496,794	450,785	4.5	-9.3
West	392,898	454,381	411,076	4.6	-9.5

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

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

State	February 2017	January 2018	February 2018	Change from	
				February 2017	January 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	50,552	53,666	48,674	-3.7	-9.3
Idaho	46,083	55,267	48,804	5.9	-11.7
Iowa	13,075	13,332	11,508	-12.0	-13.7
Oregon	15,550	17,468	15,899	2.2	-9.0
Pennsylvania	55	62	70	27.3	12.9
Wisconsin	75,895	90,287	82,500	8.7	-8.6
Other States ¹	172,478	203,588	189,187	9.7	-7.1
United States	373,688	433,670	396,642	6.1	-8.5
Atlantic	24,344	27,431	24,987	2.6	-8.9
Central	183,227	216,212	197,319	7.7	-8.7
West	166,117	190,027	174,336	4.9	-8.3

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

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

State	February 2017	January 2018	February 2018	Change from	
				February 2017	January 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	29,144	31,058	27,627	-5.2	-11.0
Idaho	36,638	43,813	39,024	6.5	-10.9
Iowa	8,835	7,938	6,805	-23.0	-14.3
Minnesota	40,704	50,108	45,733	12.4	-8.7
Vermont	7,695	8,672	8,073	4.9	-6.9
Wisconsin	52,778	65,683	59,200	12.2	-9.9
Other States ¹	100,194	110,982	105,312	5.1	-5.1
United States	275,988	318,254	291,774	5.7	-8.3
Atlantic	23,355	26,396	23,927	2.4	-9.4
Central	133,902	157,580	142,825	6.7	-9.4
West	118,731	134,278	125,022	5.3	-6.9

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: February 2017 and 2018

State	February 2017	January 2018	February 2018	Change from	
				February 2017	January 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	121,923	142,319	129,427	6.2	-9.1
Idaho	17,604	23,336	18,164	3.2	-22.2
Pennsylvania	19,758	23,169	19,978	1.1	-13.8
Wisconsin	128,917	145,181	132,687	2.9	-8.6
Other States ¹	118,368	140,343	123,666	4.5	-11.9
United States	406,570	474,348	423,922	4.3	-10.6
Atlantic	52,850	62,645	52,655	-0.4	-15.9
Central	167,823	191,464	175,131	4.4	-8.5
West	185,897	220,239	196,136	5.5	-10.9

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

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

State	February 2017	January 2018	February 2018	Change from	
				February 2017	January 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	111,573	127,839	115,974	3.9	-9.3
Idaho	16,619	22,452	17,656	6.2	-21.4
Pennsylvania	17,218	20,196	16,519	-4.1	-18.2
Wisconsin	83,862	94,050	86,700	3.4	-7.8
Other States ¹	85,486	102,451	89,021	4.1	-13.1
United States	314,758	366,988	325,870	3.5	-11.2
Atlantic	34,862	42,014	34,079	-2.2	-18.9
Central	106,349	121,237	110,645	4.0	-8.7
West	173,547	203,737	181,146	4.4	-11.1

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

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

State	February 2017	January 2018	February 2018	Change from	
				February 2017	January 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	48,611	53,872	51,768	6.5	-3.9
Pennsylvania	8,508	8,860	7,506	-11.8	-15.3
Other States ¹	103,933	119,356	109,353	5.2	-8.4
United States	161,052	182,088	168,627	4.7	-7.4
Atlantic	20,437	19,592	17,509	-14.3	-10.6
Central	67,279	75,714	72,878	8.3	-3.7
West	73,336	86,782	78,240	6.7	-9.8

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: February 2017 and 2018

State	February 2017	January 2018	February 2018	Change from	
				February 2017	January 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	49,295	57,858	54,644	10.9	-5.6
Pennsylvania	13,589	16,260	14,900	9.6	-8.4
Other States ¹	78,518	86,183	88,957	13.3	3.2
United States	141,402	160,301	158,501	12.1	-1.1
Atlantic	27,909	25,745	27,277	-2.3	6.0
Central	28,488	32,166	29,887	4.9	-7.1
West	85,005	102,390	101,337	19.2	-1.0

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: February 2017 and 2018

State	February 2017	January 2018	February 2018	Change from	
				February 2017	January 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Wisconsin	25,766	30,183	28,532	10.7	-5.5
Other States ¹	50,267	57,904	60,128	19.6	3.8
United States	76,033	88,087	88,660	16.6	0.7
Atlantic	20,483	20,772	19,310	-5.7	-7.0
Central	36,383	42,747	39,814	9.4	-6.9
West	19,167	24,568	29,536	54.1	20.2

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: February 2017 and 2018

State	February 2017	January 2018	February 2018	Change from	
				February 2017	January 2018
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
California	8,739	4,800	4,759	-45.5	-0.9
Connecticut	1,027	917	1,001	-2.5	9.2
Missouri	2,522	4,315	3,443	36.5	-20.2
Ohio	2,165	2,018	2,097	-3.1	3.9
Oregon	856	894	944	10.3	5.6
Pennsylvania	1,982	2,881	2,066	4.2	-28.3
Other States ¹	41,680	38,893	41,217	-1.1	6.0
United States	58,971	54,718	55,527	-5.8	1.5
Atlantic	12,137	12,192	12,312	1.4	1.0
Central	32,718	32,880	33,303	1.8	1.3
West	14,116	9,646	9,912	-29.8	2.8

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 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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