



Dairy Products

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March 2019 Highlights

Total cheese output (excluding cottage cheese) was 1.10 billion pounds, 0.7 percent below March 2018 but 11.0 percent above February 2019.

Italian type cheese production totaled 484 million pounds, 0.1 percent above March 2018 and 9.6 percent above February 2019.

American type cheese production totaled 435 million pounds, 1.8 percent below March 2018 but 11.3 percent above February 2019.

Butter production was 175 million pounds, 3.9 percent below March 2018 but 6.3 percent above February 2019.

Dry milk products (comparisons in percentage with March 2018)

Nonfat dry milk, human - 164 million pounds, down 8.0 percent.

Skim milk powder - 49.6 million pounds, up 17.9 percent.

Whey products (comparisons in percentage with March 2018)

Dry whey, total - 78.4 million pounds, down 14.2 percent.

Lactose, human and animal - 110 million pounds, up 9.2 percent.

Whey protein concentrate, total - 42.3 million pounds, down 16.1 percent.

Frozen products (comparisons in percentage with March 2018)

Ice cream, regular (hard) - 65.6 million gallons, up 3.2 percent.

Ice cream, lowfat (total) - 41.7 million gallons, up 1.5 percent.

Sherbet (hard) - 3.50 million gallons, up 3.9 percent.

Frozen yogurt (total) - 4.84 million gallons, down 11.9 percent.

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Dairy Products Production by Product – United States: March 2018 and 2019

Product	March 2018	February 2019	March 2019	Change from	
				March 2018	February 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Butter	181,847	164,525	174,836	-3.9	6.3
Cheese					
American types ¹	443,185	391,027	435,105	-1.8	11.3
Cheddar	320,257	280,816	309,900	-3.2	10.4
Other American types	122,928	110,211	125,205	1.9	13.6
Blue and Gorgonzola	8,151	6,482	7,836	-3.9	20.9
Brick and Muenster	15,118	14,184	15,399	1.9	8.6
Cream and Neufchatel	72,774	60,192	73,836	1.5	22.7
Feta	11,187	10,434	11,416	2.0	9.4
Gouda	5,924	2,710	4,260	-28.1	57.2
Hispanic	25,611	27,287	29,261	14.3	7.2
Italian types	483,095	441,082	483,546	0.1	9.6
Mozzarella	372,712	347,234	378,012	1.4	8.9
Parmesan	41,508	35,654	37,889	-8.7	6.3
Provolone	33,826	29,682	32,407	-4.2	9.2
Ricotta	23,200	18,614	23,736	2.3	27.5
Romano	5,432	3,822	4,166	-23.3	9.0
Other Italian types	6,417	6,076	7,336	14.3	20.7
Swiss	28,685	26,489	27,817	-3.0	5.0
All other types	14,292	11,459	12,129	-15.1	5.8
Total cheese ²	1,108,022	991,346	1,100,605	-0.7	11.0
Cottage cheese, curd ³	36,016	30,242	34,285	-4.8	13.4
Cottage cheese, cream ⁴	32,655	26,094	30,679	-6.1	17.6
Cottage cheese, lowfat ⁵	31,340	25,374	28,976	-7.5	14.2
Sour cream	116,365	100,923	107,939	-7.2	7.0
Yogurt, plain and flavored	389,848	365,389	398,558	2.2	9.1
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
Frozen products					
Ice cream, regular, hard	63,553	52,120	65,559	3.2	25.8
Ice cream, lowfat, hard	18,780	18,177	21,205	12.9	16.7
Ice cream, lowfat, soft	22,328	14,058	20,533	-8.0	46.1
Ice cream, lowfat, total ⁶	41,108	32,235	41,738	1.5	29.5
Ice cream, nonfat, hard	912	591	909	-0.3	53.8
Sherbet, hard	3,368	2,653	3,501	3.9	32.0
Frozen yogurt, total	5,495	4,500	4,841	-11.9	7.6
Regular and lowfat, hard	2,020	1,186	1,655	-18.1	39.5
Nonfat, hard	727	457	438	-39.8	-4.2
Other frozen dairy products	1,761	1,726	2,760	56.7	59.9
Water and juice ices	6,455	4,647	6,496	0.6	39.8
Mix for frozen products					
Ice cream, regular, mix	38,638	30,605	38,785	0.4	26.7
Ice cream, lowfat, mix ⁷	24,096	17,985	23,456	-2.7	30.4
Ice cream, nonfat, mix	712	721	751	5.5	4.2
Sherbet mix	2,197	1,851	2,329	6.0	25.8
Yogurt mix	3,230	2,438	2,862	-11.4	17.4

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:
March 2018 and 2019**

Product	March 2018	February 2019	March 2019	Change from	
				March 2018	February 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Condensed whey, solids content ¹					
Sweet-type, human	9,433	7,684	10,837	14.9	41.0
Dry whey products					
Dry whey, human	89,855	73,675	77,348	-13.9	5.0
Dry whey, animal	1,513	1,273	1,067	-29.5	-16.2
Dry whey, total	91,368	74,948	78,415	-14.2	4.6
Reduced lactose and minerals					
Human	2,401	1,602	2,393	-0.3	49.4
Animal	2,753	2,675	3,097	12.5	15.8
Whey protein concentrate					
Human ²	49,286	38,355	41,180	-16.4	7.4
Animal ²	1,177	940	1,167	-0.8	24.1
Total ²	50,463	39,295	42,347	-16.1	7.8
25.0-49.9 percent ³	19,922	15,048	14,777	-25.8	-1.8
50.0-89.9 percent ³	30,541	24,247	27,570	-9.7	13.7
Whey protein isolates ⁴	10,502	8,884	7,931	-24.5	-10.7
Lactose, human and animal	100,861	98,080	110,138	9.2	12.3
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	74,920	68,217	79,446	6.0	16.5
Dry whey, animal	1,087	707	735	-32.4	4.0
Dry whey, total	76,007	68,924	80,181	5.5	16.3
Reduced Lactose and minerals					
Human and animal ⁶	4,389	4,729	4,982	13.5	5.3
Whey protein concentrate					
Human ²	77,862	62,042	59,407	-23.7	-4.2
Animal ²	1,075	985	1,017	-5.4	3.2
Total ²	78,937	63,027	60,424	-23.5	-4.1
25.0-49.9 percent ³	23,758	27,805	25,207	6.1	-9.3
50.0-89.9 percent ³	55,179	35,222	35,217	-36.2	
Whey protein isolates ⁴	26,258	20,394	21,164	-19.4	3.8
Lactose, human and animal	110,984	102,769	98,005	-11.7	-4.6
	(cents per pound)	(cents per pound)	(cents per pound)	(cents change)	(cents change)
Manufacturers' selling price ⁷					
Dry whey, animal	12.7	15.9	17.8	5.1	1.9

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:
March 2018 and 2019**

Product	March 2018	February 2019	March 2019	Change from	
				March 2018	February 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Production					
Bulk condensed milk					
Skim, unsweetened	133,721	121,247	130,405	-2.5	7.6
Dry milk products					
Dry buttermilk, total	12,347	9,470	9,828	-20.4	3.8
Dry skim milk, animal	1,019	534	753	-26.1	41.0
Dry whole milk	21,876	9,445	18,574	-15.1	96.7
Milk protein concentrate, total ¹	13,277	14,747	14,526	9.4	-1.5
Nonfat dry milk, human	177,980	153,806	163,707	-8.0	6.4
Skim milk powder, total ²	42,066	35,630	49,607	17.9	39.2
Manufacturers' stocks end-of-month ³					
Dry milk products					
Dry buttermilk, total	25,933	20,094	17,413	-32.9	-13.3
Dry skim milk, animal	2,925	9,928	4,243	45.1	-57.3
Dry whole milk	46,035	18,329	25,986	-43.6	41.8
Nonfat dry milk, human	297,296	310,447	288,802	-2.9	-7.0
Manufacturers' shipments ⁴					
Dry milk products					
Nonfat dry milk, human	165,149	126,000	173,539	5.1	37.7

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: 2018 and 2019

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

Product and month	Monthly			Cumulative		
	2018	2019	Change from 2018	2018	2019	Change from 2018
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Total cheese ¹						
January	1,098,670	1,098,353	-	1,098,670	1,098,353	-
February	992,824	991,346	-0.1	2,091,494	2,089,699	-0.1
March	1,108,022	1,100,605	-0.7	3,199,516	3,190,304	-0.3
April	1,078,148			4,277,664		
May	1,085,249			5,362,913		
June	1,065,989			6,428,902		
July	1,087,097			7,515,999		
August	1,086,966			8,602,965		
September	1,059,076			9,662,041		
October	1,154,170			10,816,211		
November	1,095,965			11,912,176		
December	1,112,411			13,024,587		
Total American cheese types ²						
January	448,124	439,283	-2.0	448,124	439,283	-2.0
February	406,189	391,027	-3.7	854,313	830,310	-2.8
March	443,185	435,105	-1.8	1,297,498	1,265,415	-2.5
April	444,287			1,741,785		
May	442,968			2,184,753		
June	429,076			2,613,829		
July	440,937			3,054,766		
August	435,388			3,490,154		
September	424,032			3,914,186		
October	457,122			4,371,308		
November	434,185			4,805,493		
December	448,340			5,253,833		
Cheddar cheese						
January	331,985	323,210	-2.6	331,985	323,210	-2.6
February	301,256	280,816	-6.8	633,241	604,026	-4.6
March	320,257	309,900	-3.2	953,498	913,926	-4.2
April	319,153			1,272,651		
May	318,665			1,591,316		
June	312,869			1,904,185		
July	325,217			2,229,402		
August	311,974			2,541,376		
September	297,632			2,839,008		
October	323,213			3,162,221		
November	314,170			3,476,391		
December	326,117			3,802,508		

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2018 and 2019 (continued)

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

Product and month	Monthly			Cumulative		
	2018	2019	Change from 2018	2018	2019	Change from 2018
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Total Italian cheese types						
January	473,913	480,134	1.3	473,913	480,134	1.3
February	428,100	441,082	3.0	902,013	921,216	2.1
March	483,095	483,546	0.1	1,385,108	1,404,762	1.4
April	460,768			1,845,876		
May	460,817			2,306,693		
June	450,929			2,757,622		
July	462,769			3,220,391		
August	453,431			3,673,822		
September	450,964			4,124,786		
October	483,852			4,608,638		
November	469,207			5,077,845		
December	479,005			5,556,850		
Mozzarella						
January	365,563	379,627	3.8	365,563	379,627	3.8
February	328,591	347,234	5.7	694,154	726,861	4.7
March	372,712	378,012	1.4	1,066,866	1,104,873	3.6
April	358,320			1,425,186		
May	359,072			1,784,258		
June	355,249			2,139,507		
July	367,437			2,506,944		
August	357,346			2,864,290		
September	358,579			3,222,869		
October	381,217			3,604,086		
November	370,269			3,974,355		
December	377,006			4,351,361		
Other Italian cheese types						
January	5,549	6,750	21.6	5,549	6,750	21.6
February	5,689	6,076	6.8	11,238	12,826	14.1
March	6,417	7,336	14.3	17,655	20,162	14.2
April	5,909			23,564		
May	6,671			30,235		
June	6,828			37,063		
July	6,084			43,147		
August	6,181			49,328		
September	6,728			56,056		
October	6,257			62,313		
November	6,987			69,300		
December	6,393			75,693		

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2018 and 2019 (continued)

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

Product and month	Monthly			Cumulative		
	2018	2019	Change from 2018	2018	2019	Change from 2018
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Butter						
January	182,143	189,642	4.1	182,143	189,642	4.1
February	167,669	164,525	-1.9	349,812	354,167	1.2
March	181,847	174,836	-3.9	531,659	529,003	-0.5
April	175,216			706,875		
May	170,122			876,997		
June	142,122			1,019,119		
July	134,564			1,153,683		
August	133,571			1,287,254		
September	135,041			1,422,295		
October	148,896			1,571,191		
November	149,428			1,720,619		
December	170,388			1,891,007		
Nonfat dry milk, human						
January	159,272	172,690	8.4	159,272	172,690	8.4
February	157,105	153,806	-2.1	316,377	326,496	3.2
March	177,980	163,707	-8.0	494,357	490,203	-0.8
April	169,428			663,785		
May	165,670			829,455		
June	152,244			981,699		
July	150,193			1,131,892		
August	129,077			1,260,969		
September	114,030			1,374,999		
October	121,595			1,496,594		
November	134,424			1,631,018		
December	142,522			1,773,540		
Skim milk powder, total ³						
January	44,033	39,784	-9.6	44,033	39,784	-9.6
February	38,034	35,630	-6.3	82,067	75,414	-8.1
March	42,066	49,607	17.9	124,133	125,021	0.7
April	49,457			173,590		
May	50,374			223,964		
June	59,439			283,403		
July	47,498			330,901		
August	47,558			378,459		
September	46,694			425,153		
October	48,580			473,733		
November	42,455			516,188		
December	50,316			566,504		

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2018 and 2019 (continued)

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

Product and month	Monthly			Cumulative		
	2018	2019	Change from 2018	2018	2019	Change from 2018
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Dry whey, total ⁴						
January	90,569	81,202	-10.3	90,569	81,202	-10.3
February	89,431	74,948	-16.2	180,000	156,150	-13.3
March	91,368	78,415	-14.2	271,368	234,565	-13.6
April	85,731			357,099		
May	85,904			443,003		
June	86,603			529,606		
July	90,171			619,777		
August	78,814			698,591		
September	69,951			768,542		
October	84,003			852,545		
November	72,306			924,851		
December	74,505			999,356		
Lactose, human and animal						
January	94,822	111,586	17.7	94,822	111,586	17.7
February	86,232	98,080	13.7	181,054	209,666	15.8
March	100,861	110,138	9.2	281,915	319,804	13.4
April	93,472			375,387		
May	96,204			471,591		
June	95,874			567,465		
July	98,603			666,068		
August	97,273			763,341		
September	91,391			854,732		
October	90,025			944,757		
November	103,137			1,047,894		
December	110,406			1,158,300		
Whey protein concentrate, total						
January	44,257	43,170	-2.5	44,257	43,170	-2.5
February	41,182	39,295	-4.6	85,439	82,465	-3.5
March	50,463	42,347	-16.1	135,902	124,812	-8.2
April	41,887			177,789		
May	42,424			220,213		
June	41,001			261,214		
July	40,877			302,091		
August	42,856			344,947		
September	41,991			386,938		
October	42,392			429,330		
November	40,919			470,249		
December	43,722			513,971		

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2018 and 2019 (continued)

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

Product and month	Monthly			Cumulative		
	2018	2019	Change from 2018	2018	2019	Change from 2018
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Cottage cheese, cream						
January	27,933	28,322	1.4	27,933	28,322	1.4
February	27,261	26,094	-4.3	55,194	54,416	-1.4
March	32,655	30,679	-6.1	87,849	85,095	-3.1
April	29,410			117,259		
May	32,320			149,579		
June	31,006			180,585		
July	30,114			210,699		
August	31,920			242,619		
September	27,141			269,760		
October	29,828			299,588		
November	27,051			326,639		
December	26,146			352,785		
Cottage cheese, lowfat						
January	29,299	28,134	-4.0	29,299	28,134	-4.0
February	27,577	25,374	-8.0	56,876	53,508	-5.9
March	31,340	28,976	-7.5	88,216	82,484	-6.5
April	29,982			118,198		
May	31,476			149,674		
June	28,321			177,995		
July	29,296			207,291		
August	29,342			236,633		
September	26,943			263,576		
October	28,706			292,282		
November	25,181			317,463		
December	24,621			342,084		
Sour cream						
January	120,265	120,975	0.6	120,265	120,975	0.6
February	98,965	100,923	2.0	219,230	221,898	1.2
March	116,365	107,939	-7.2	335,595	329,837	-1.7
April	111,335			446,930		
May	119,221			566,151		
June	114,106			680,257		
July	109,820			790,077		
August	119,327			909,404		
September	107,914			1,017,318		
October	128,883			1,146,201		
November	130,767			1,276,968		
December	126,443			1,403,411		

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2018 and 2019 (continued)

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

Product and month	Monthly			Cumulative		
	2018	2019	Change from 2018	2018	2019	Change from 2018
	(1,000 gallons)	(1,000 gallons)	(percent)	(1,000 gallons)	(1,000 gallons)	(percent)
Ice cream, regular hard						
January	53,684	53,551	-0.2	53,684	53,551	-0.2
February	55,447	52,120	-6.0	109,131	105,671	-3.2
March	63,553	65,559	3.2	172,684	171,230	-0.8
April	62,821			235,505		
May	64,551			300,056		
June	70,263			370,319		
July	68,966			439,285		
August	70,111			509,396		
September	56,601			565,997		
October	60,610			626,607		
November	48,070			674,677		
December	43,855			718,532		
Ice cream, lowfat total						
January	32,568	31,559	-3.1	32,568	31,559	-3.1
February	34,823	32,235	-7.4	67,391	63,794	-5.3
March	41,108	41,738	1.5	108,499	105,532	-2.7
April	40,800			149,299		
May	42,471			191,770		
June	45,471			237,241		
July	42,333			279,574		
August	41,742			321,316		
September	34,907			356,223		
October	36,607			392,830		
November	30,121			422,951		
December	28,152			451,103		
Sherbet, hard						
January	2,858	2,551	-10.7	2,858	2,551	-10.7
February	3,112	2,653	-14.7	5,970	5,204	-12.8
March	3,368	3,501	3.9	9,338	8,705	-6.8
April	3,578			12,916		
May	3,513			16,429		
June	3,563			19,992		
July	3,151			23,143		
August	3,255			26,398		
September	3,084			29,482		
October	2,978			32,460		
November	2,341			34,801		
December	2,100			36,901		

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2018 and 2019 (continued)

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

Product and month	Monthly			Cumulative		
	2018	2019	Change from 2018	2018	2019	Change from 2018
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Yogurt, plain and flavored						
January	372,015	360,050	-3.2	372,015	360,050	-3.2
February	376,710	365,389	-3.0	748,725	725,439	-3.1
March	389,848	398,558	2.2	1,138,573	1,123,997	-1.3
April	358,160			1,496,733		
May	373,431			1,870,164		
June	373,079			2,243,243		
July	360,886			2,604,129		
August	396,296			3,000,425		
September	369,989			3,370,414		
October	363,128			3,733,542		
November	310,848			4,044,390		
December	343,698			4,388,088		
	(1,000 gallons)	(1,000 gallons)	(percent)	(1,000 gallons)	(1,000 gallons)	(percent)
Frozen yogurt, total						
January	4,054	5,145	26.9	4,054	5,145	26.9
February	4,094	4,500	9.9	8,148	9,645	18.4
March	5,495	4,841	-11.9	13,643	14,486	6.2
April	5,212			18,855		
May	4,880			23,735		
June	5,089			28,824		
July	4,258			33,082		
August	4,005			37,087		
September	3,622			40,709		
October	3,124			43,833		
November	3,261			47,094		
December	3,133			50,227		

- Represents zero.

¹ Excludes Cottage Cheese.

² Includes Cheddar, Colby, washed curd, stirred curd, Monterey, and Jack.

³ Includes protein standardized and blends.

⁴ Excludes all modified dry whey products.

Total Cheese Production Excluding Cottage Cheese – States and United States: March 2018 and 2019

State	March 2018	February 2019	March 2019	Change from	
				March 2018	February 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	215,761	200,731	209,052	-3.1	4.1
Idaho	86,090	71,563	89,708	4.2	25.4
Illinois	7,510	5,652	6,352	-15.4	12.4
Iowa	24,076	26,921	28,420	18.0	5.6
Minnesota	63,394	56,829	62,481	-1.4	9.9
New Jersey	5,213	3,925	5,111	-2.0	30.2
New Mexico	76,278	71,202	77,019	1.0	8.2
Ohio	20,198	16,356	18,960	-6.1	15.9
Oregon	17,170	16,094	18,146	5.7	12.8
Pennsylvania	37,122	30,575	38,537	3.8	26.0
South Dakota	25,406	22,590	23,417	-7.8	3.7
Vermont	12,093	11,101	9,752	-19.4	-12.2
Wisconsin	295,459	260,992	293,309	-0.7	12.4
Other States ¹	222,252	196,815	220,341	-0.9	12.0
United States	1,108,022	991,346	1,100,605	-0.7	11.0
Atlantic	134,235	117,515	133,106	-0.8	13.3
Central	510,984	450,479	507,390	-0.7	12.6
West	462,803	423,352	460,109	-0.6	8.7

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

American Cheese Production – States and United States: March 2018 and 2019

State	March 2018	February 2019	March 2019	Change from	
				March 2018	February 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	54,775	48,744	54,697	-0.1	12.2
Idaho	52,554	45,406	52,639	0.2	15.9
Iowa	12,784	15,223	15,400	20.5	1.2
Minnesota	51,559	45,442	49,838	-3.3	9.7
Oregon	17,099	16,017	18,070	5.7	12.8
Wisconsin	89,151	79,816	85,500	-4.1	7.1
Other States ¹	165,263	140,379	158,961	-3.8	13.2
United States	443,185	391,027	435,105	-1.8	11.3
Atlantic	28,686	25,544	26,434	-7.9	3.5
Central	219,657	194,895	213,082	-3.0	9.3
West	194,842	170,588	195,589	0.4	14.7

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

Cheddar Cheese Production – States and United States: March 2018 and 2019

State	March 2018	February 2019	March 2019	Change from	
				March 2018	February 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	26,787	26,539	31,117	16.2	17.3
Idaho	42,244	32,609	37,393	-11.5	14.7
Iowa	8,306	8,778	8,224	-1.0	-6.3
Minnesota	48,452	44,369	49,022	1.2	10.5
Oregon	13,456	12,178	13,572	0.9	11.4
Vermont	8,759	7,831	6,350	-27.5	-18.9
Wisconsin	64,170	57,954	61,800	-3.7	6.6
Other States ¹	108,083	90,558	102,422	-5.2	13.1
United States	320,257	280,816	309,900	-3.2	10.4
Atlantic	27,159	24,581	24,945	-8.2	1.5
Central	160,466	143,189	155,840	-2.9	8.8
West	132,632	113,046	129,115	-2.7	14.2

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: March 2018 and 2019

State	March 2018	February 2019	March 2019	Change from	
				March 2018	February 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	138,293	134,235	134,556	-2.7	0.2
Idaho	28,091	21,811	31,228	11.2	43.2
Minnesota	11,619	11,097	12,362	6.4	11.4
Pennsylvania	22,883	19,777	22,835	-0.2	15.5
Wisconsin	150,532	133,913	152,362	1.2	13.8
Other States ¹	131,677	120,249	130,203	-1.1	8.3
United States	483,095	441,082	483,546	0.1	9.6
Atlantic	62,602	53,274	62,307	-0.5	17.0
Central	198,809	176,821	199,694	0.4	12.9
West	221,684	210,987	221,545	-0.1	5.0

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

Mozzarella Cheese Production – States and United States: March 2018 and 2019

State	March 2018	February 2019	March 2019	Change from	
				March 2018	February 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	126,391	122,552	124,974	-1.1	2.0
Idaho	27,198	21,364	30,541	12.3	43.0
Pennsylvania	19,590	16,860	19,759	0.9	17.2
Wisconsin	98,500	87,469	99,700	1.2	14.0
Other States ¹	101,033	98,989	103,038	2.0	4.1
United States	372,712	347,234	378,012	1.4	8.9
Atlantic	39,716	34,779	39,620	-0.2	13.9
Central	125,588	114,688	128,733	2.5	12.2
West	207,408	197,767	209,659	1.1	6.0

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

Butter Production – States and United States: March 2018 and 2019

State	March 2018	February 2019	March 2019	Change from	
				March 2018	February 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	59,004	48,416	55,286	-6.3	14.2
Pennsylvania	8,055	7,308	7,653	-5.0	4.7
Other States ¹	114,788	108,801	111,897	-2.5	2.8
United States	181,847	164,525	174,836	-3.9	6.3
Atlantic	19,394	17,605	17,244	-11.1	-2.1
Central	71,317	69,170	71,733	0.6	3.7
West	91,136	77,750	85,859	-5.8	10.4

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: March 2018 and 2019

State	March 2018	February 2019	March 2019	Change from	
				March 2018	February 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	69,665	61,538	68,561	-1.6	11.4
Pennsylvania	18,120	14,119	15,560	-14.1	10.2
Other States ¹	90,195	78,149	79,586	-11.8	1.8
United States	177,980	153,806	163,707	-8.0	6.4
Atlantic	36,202	27,506	33,210	-8.3	20.7
Central	26,181	30,509	27,879	6.5	-8.6
West	115,597	95,791	102,618	-11.2	7.1

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: March 2018 and 2019

State	March 2018	February 2019	March 2019	Change from	
				March 2018	February 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Wisconsin	32,666	20,481	23,538	-27.9	14.9
Other States ¹	57,189	53,194	53,810	-5.9	1.2
United States	89,855	73,675	77,348	-13.9	5.0
Atlantic	21,922	18,735	21,995	0.3	17.4
Central	45,747	29,528	33,142	-27.6	12.2
West	22,186	25,412	22,211	0.1	-12.6

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: March 2018 and 2019

State	March 2018	February 2019	March 2019	Change from	
				March 2018	February 2019
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
California	6,480	4,337	6,037	-6.8	39.2
Connecticut	1,256	1,008	1,110	-11.6	10.1
Missouri	3,811	2,965	3,403	-10.7	14.8
Ohio	2,227	1,721	1,897	-14.8	10.2
Oregon	1,222	980	1,317	7.8	34.4
Pennsylvania	3,138	2,631	3,345	6.6	27.1
Tennessee	2,200	1,861	2,073	-5.8	11.4
Utah	2,849	2,276	1,949	-31.6	-14.4
Other States ¹	40,370	34,341	44,428	10.1	29.4
United States	63,553	52,120	65,559	3.2	25.8
Atlantic	13,996	12,447	14,239	1.7	14.4
Central	36,967	30,099	39,782	7.6	32.2
West	12,590	9,574	11,538	-8.4	20.5

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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- Cornell’s Mann Library has launched a new website housing NASS’s and other agency’s archived reports. The new website, <https://usda.library.cornell.edu>. All email subscriptions containing reports will be sent from the new website, <https://usda.library.cornell.edu>. To continue receiving the reports via e-mail, you will have to go to the new website, create a new account and re-subscribe to the reports. If you need instructions to set up an account or subscribe, they are located at: <https://usda.library.cornell.edu/help>. You should whitelist notifications@usda-esmis.library.cornell.edu in your email client to avoid the emails going into spam/junk folders.

For more information on NASS surveys and reports, call the NASS Agricultural Statistics Hotline at (800) 727-9540, 7:30 a.m. to 4:00 p.m. ET, or e-mail: nass@nass.usda.gov.

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