



Dairy Products

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May 2019 Highlights

Total cheese output (excluding cottage cheese) was 1.10 billion pounds, 1.6 percent above May 2018 and 1.5 percent above April 2019.

Italian type cheese production totaled 472 million pounds, 2.3 percent above May 2018 but 1.1 percent below April 2019.

American type cheese production totaled 441 million pounds, 0.5 percent below May 2018 but 2.1 percent above April 2019.

Butter production was 163 million pounds, 4.2 percent below May 2018 and 1.0 percent below April 2019.

Dry milk products (comparisons in percentage with May 2018)

Nonfat dry milk, human - 174 million pounds, up 5.0 percent.

Skim milk powder - 30.1 million pounds, down 40.2 percent.

Whey products (comparisons in percentage with May 2018)

Dry whey, total - 78.8 million pounds, down 8.2 percent.

Lactose, human and animal - 109 million pounds, up 13.8 percent.

Whey protein concentrate, total - 41.2 million pounds, down 2.8 percent.

Frozen products (comparisons in percentage with May 2018)

Ice cream, regular (hard) - 64.9 million gallons, up 0.5 percent.

Ice cream, lowfat (total) - 46.2 million gallons, up 8.8 percent.

Sherbet (hard) - 3.26 million gallons, down 7.1 percent.

Frozen yogurt (total) - 4.69 million gallons, down 4.0 percent.

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

Product	May 2018	April 2019	May 2019	Change from	
				May 2018	April 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Butter	170,122	164,674	162,967	-4.2	-1.0
Cheese					
American types ¹	442,968	431,588	440,740	-0.5	2.1
Cheddar	318,665	307,591	319,428	0.2	3.8
Other American types	124,303	123,997	121,312	-2.4	-2.2
Blue and Gorgonzola	7,994	7,503	8,277	3.5	10.3
Brick and Muenster	17,080	16,869	18,211	6.6	8.0
Cream and Neufchatel	67,467	70,310	75,008	11.2	6.7
Feta	12,706	12,778	13,384	5.3	4.7
Gouda	6,123	3,578	3,124	-49.0	-12.7
Hispanic	26,245	27,205	30,087	14.6	10.6
Italian types	460,817	476,853	471,544	2.3	-1.1
Mozzarella	359,072	373,667	370,475	3.2	-0.9
Parmesan	37,515	39,218	39,323	4.8	0.3
Provolone	34,396	33,003	32,450	-5.7	-1.7
Ricotta	18,077	19,952	18,491	2.3	-7.3
Romano	5,086	4,446	4,323	-15.0	-2.8
Other Italian types	6,671	6,567	6,482	-2.8	-1.3
Swiss	28,816	27,521	29,637	2.8	7.7
All other types	15,033	12,211	13,134	-12.6	7.6
Total cheese ²	1,085,249	1,086,416	1,103,146	1.6	1.5
Cottage cheese, curd ³	36,368	34,529	32,665	-10.2	-5.4
Cottage cheese, cream ⁴	32,320	31,141	29,730	-8.0	-4.5
Cottage cheese, lowfat ⁵	31,476	29,221	27,702	-12.0	-5.2
Sour cream	119,221	117,612	120,236	0.9	2.2
Yogurt, plain and flavored	373,431	371,640	349,371	-6.4	-6.0
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
Frozen products					
Ice cream, regular, hard	64,551	64,091	64,865	0.5	1.2
Ice cream, lowfat, hard	17,848	21,798	22,155	24.1	1.6
Ice cream, lowfat, soft	24,623	22,689	24,072	-2.2	6.1
Ice cream, lowfat, total ⁶	42,471	44,487	46,227	8.8	3.9
Ice cream, nonfat, hard	872	717	677	-22.4	-5.6
Sherbet, hard	3,513	3,236	3,263	-7.1	0.8
Frozen yogurt, total	4,880	4,896	4,685	-4.0	-4.3
Regular and lowfat, hard	1,695	1,395	1,553	-8.4	11.3
Nonfat, hard	531	564	478	-10.0	-15.2
Other frozen dairy products	1,951	1,725	2,138	9.6	23.9
Water and juice ices	6,592	6,404	7,128	8.1	11.3
Mix for frozen products					
Ice cream, regular, mix	41,186	39,199	40,728	-1.1	3.9
Ice cream, lowfat, mix ⁷	26,059	25,059	26,075	0.1	4.1
Ice cream, nonfat, mix	625	546	440	-29.6	-19.4
Sherbet mix	2,336	2,102	2,255	-3.5	7.3
Yogurt mix	2,886	2,584	2,761	-4.3	6.8

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 2018 and 2019**

Product	May 2018	April 2019	May 2019	Change from	
				May 2018	April 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Condensed whey, solids content ¹					
Sweet-type, human	9,568	8,698	9,034	-5.6	3.9
Dry whey products					
Dry whey, human	83,731	73,801	77,544	-7.4	5.1
Dry whey, animal	2,173	1,196	1,278	-41.2	6.9
Dry whey, total	85,904	74,997	78,822	-8.2	5.1
Reduced lactose and minerals					
Human	2,743	2,061	2,082	-24.1	1.0
Animal	2,872	2,811	2,829	-1.5	0.6
Whey protein concentrate					
Human ²	42,054	40,121	40,975	-2.6	2.1
Animal ²	370	608	257	-30.5	-57.7
Total ²	42,424	40,729	41,232	-2.8	1.2
25.0-49.9 percent ³	15,295	15,949	14,814	-3.1	-7.1
50.0-89.9 percent ³	27,129	24,780	26,418	-2.6	6.6
Whey protein isolates ⁴	9,452	9,460	10,368	9.7	9.6
Lactose, human and animal	96,204	108,038	109,465	13.8	1.3
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	66,468	74,342	63,479	-4.5	-14.6
Dry whey, animal	2,221	1,097	1,261	-43.2	14.9
Dry whey, total	68,689	75,439	64,740	-5.7	-14.2
Reduced Lactose and minerals					
Human and animal ⁶	4,384	5,702	5,468	24.7	-4.1
Whey protein concentrate					
Human ²	69,855	57,278	58,922	-15.7	2.9
Animal ²	775	859	511	-34.1	-40.5
Total ²	70,630	58,137	59,433	-15.9	2.2
25.0-49.9 percent ³	20,254	24,123	24,532	21.1	1.7
50.0-89.9 percent ³	50,376	34,014	34,901	-30.7	2.6
Whey protein isolates ⁴	25,933	20,107	22,731	-12.3	13.1
Lactose, human and animal	105,669	115,951	122,763	16.2	5.9
	(cents per pound)	(cents per pound)	(cents per pound)	(cents change)	(cents change)
Manufacturers' selling price ⁷					
Dry whey, animal	20.0	19.4	18.9	-1.2	-0.6

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 2018 and 2019**

Product	May 2018	April 2019	May 2019	Change from	
				May 2018	April 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Production					
Bulk condensed milk					
Skim, unsweetened	140,407	126,344	137,182	-2.3	8.6
Dry milk products					
Dry buttermilk, total	10,882	10,036	9,915	-8.9	-1.2
Dry skim milk, animal	1,407	587	902	-35.9	53.7
Dry whole milk	25,411	24,681	24,430	-3.9	-1.0
Milk protein concentrate, total ¹	17,413	15,801	17,116	-1.7	8.3
Nonfat dry milk, human	165,670	165,049	173,872	5.0	5.3
Skim milk powder, total ²	50,374	45,014	30,102	-40.2	-33.1
Manufacturers' stocks end-of-month ³					
Dry milk products					
Dry buttermilk, total	18,768	16,351	15,415	-17.9	-5.7
Dry skim milk, animal	3,151	2,064	1,940	-38.4	-6.0
Dry whole milk	59,625	38,146	45,821	-23.2	20.1
Nonfat dry milk, human	270,489	275,401	281,847	4.2	2.3
Manufacturers' shipments ⁴					
Dry milk products					
Nonfat dry milk, human	143,020	173,315	160,758	12.4	-7.2

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	1,120,525	1.1	3,199,516	3,210,224	0.3
April	1,078,148	1,086,416	0.8	4,277,664	4,296,640	0.4
May	1,085,249	1,103,146	1.6	5,362,913	5,399,786	0.7
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	440,262	-0.7	1,297,498	1,270,572	-2.1
April	444,287	431,588	-2.9	1,741,785	1,702,160	-2.3
May	442,968	440,740	-0.5	2,184,753	2,142,900	-1.9
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	312,494	-2.4	953,498	916,520	-3.9
April	319,153	307,591	-3.6	1,272,651	1,224,111	-3.8
May	318,665	319,428	0.2	1,591,316	1,543,539	-3.0
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	494,933	2.5	1,385,108	1,416,149	2.2
April	460,768	476,853	3.5	1,845,876	1,893,002	2.6
May	460,817	471,544	2.3	2,306,693	2,364,546	2.5
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	392,018	5.2	1,066,866	1,118,879	4.9
April	358,320	373,667	4.3	1,425,186	1,492,546	4.7
May	359,072	370,475	3.2	1,784,258	1,863,021	4.4
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	7,328	14.2	17,655	20,154	14.2
April	5,909	6,567	11.1	23,564	26,721	13.4
May	6,671	6,482	-2.8	30,235	33,203	9.8
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	173,558	-4.6	531,659	527,725	-0.7
April	175,216	164,674	-6.0	706,875	692,399	-2.0
May	170,122	162,967	-4.2	876,997	855,366	-2.5
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	163,944	-7.9	494,357	490,440	-0.8
April	169,428	165,049	-2.6	663,785	655,489	-1.2
May	165,670	173,872	5.0	829,455	829,361	-
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	46,677	11.0	124,133	122,091	-1.6
April	49,457	45,014	-9.0	173,590	167,105	-3.7
May	50,374	30,102	-40.2	223,964	197,207	-11.9
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	76,372	-16.4	271,368	232,522	-14.3
April	85,731	74,997	-12.5	357,099	307,519	-13.9
May	85,904	78,822	-8.2	443,003	386,341	-12.8
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	114,527	13.5	281,915	324,193	15.0
April	93,472	108,038	15.6	375,387	432,231	15.1
May	96,204	109,465	13.8	471,591	541,696	14.9
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	42,769	-15.2	135,902	125,234	-7.8
April	41,887	40,729	-2.8	177,789	165,963	-6.7
May	42,424	41,232	-2.8	220,213	207,195	-5.9
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	30,228	-7.4	87,849	84,644	-3.6
April	29,410	31,141	5.9	117,259	115,785	-1.3
May	32,320	29,730	-8.0	149,579	145,515	-2.7
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	28,122	-10.3	88,216	81,630	-7.5
April	29,982	29,221	-2.5	118,198	110,851	-6.2
May	31,476	27,702	-12.0	149,674	138,553	-7.4
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	108,829	-6.5	335,595	330,727	-1.5
April	111,335	117,612	5.6	446,930	448,339	0.3
May	119,221	120,236	0.9	566,151	568,575	0.4
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	65,449	3.0	172,684	171,120	-0.9
April	62,821	64,091	2.0	235,505	235,211	-0.1
May	64,551	64,865	0.5	300,056	300,076	-
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	41,611	1.2	108,499	105,405	-2.9
April	40,800	44,487	9.0	149,299	149,892	0.4
May	42,471	46,227	8.8	191,770	196,119	2.3
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	3,502	4.0	9,338	8,706	-6.8
April	3,578	3,236	-9.6	12,916	11,942	-7.5
May	3,513	3,263	-7.1	16,429	15,205	-7.5
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	390,607	0.2	1,138,573	1,116,046	-2.0
April	358,160	371,640	3.8	1,496,733	1,487,686	-0.6
May	373,431	349,371	-6.4	1,870,164	1,837,057	-1.8
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	4,750	-13.6	13,643	14,395	5.5
April	5,212	4,896	-6.1	18,855	19,291	2.3
May	4,880	4,685	-4.0	23,735	23,976	1.0
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: May 2018 and 2019

State	May 2018	April 2019	May 2019	Change from	
				May 2018	April 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	216,878	212,174	211,261	-2.6	-0.4
Idaho	77,420	83,824	78,212	1.0	-6.7
Illinois	7,206	6,914	6,987	-3.0	1.1
Iowa	26,334	26,240	27,697	5.2	5.6
Minnesota	63,641	59,391	63,011	-1.0	6.1
New Jersey	4,638	4,632	4,973	7.2	7.4
New Mexico	76,553	79,104	81,839	6.9	3.5
Ohio	20,277	18,748	19,487	-3.9	3.9
Oregon	17,309	17,701	17,986	3.9	1.6
Pennsylvania	36,551	35,551	37,130	1.6	4.4
South Dakota	24,820	25,346	27,512	10.8	8.5
Vermont	12,481	11,893	12,359	-1.0	3.9
Wisconsin	287,901	281,676	287,787	-	2.2
Other States ¹	213,240	223,222	226,905	6.4	1.6
United States	1,085,249	1,086,416	1,103,146	1.6	1.5
Atlantic	124,146	130,485	132,040	6.4	1.2
Central	504,595	494,049	510,294	1.1	3.3
West	456,508	461,882	460,812	0.9	-0.2

- Represents zero.

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 2018 and 2019

State	May 2018	April 2019	May 2019	Change from	
				May 2018	April 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	53,669	49,856	50,789	-5.4	1.9
Idaho	50,463	51,005	53,179	5.4	4.3
Iowa	17,006	15,876	16,698	-1.8	5.2
Minnesota	52,779	47,096	51,093	-3.2	8.5
Oregon	17,232	17,612	17,896	3.9	1.6
Wisconsin	87,614	84,141	84,200	-3.9	0.1
Other States ¹	164,205	166,002	166,885	1.6	0.5
United States	442,968	431,588	440,740	-0.5	2.1
Atlantic	28,145	28,342	28,624	1.7	1.0
Central	223,842	214,135	216,826	-3.1	1.3
West	190,981	189,111	195,290	2.3	3.3

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

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

State	May 2018	April 2019	May 2019	Change from	
				May 2018	April 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	29,907	27,424	26,136	-12.6	-4.7
Idaho	36,973	35,165	39,933	8.0	13.6
Iowa	11,424	8,889	9,401	-17.7	5.8
Minnesota	48,702	45,357	50,020	2.7	10.3
Oregon	14,507	14,966	14,511	-	-3.0
Vermont	8,412	8,323	8,706	3.5	4.6
Wisconsin	60,545	60,434	60,200	-0.6	-0.4
Other States ¹	108,195	107,033	110,521	2.1	3.3
United States	318,665	307,591	319,428	0.2	3.8
Atlantic	26,400	26,770	26,951	2.1	0.7
Central	160,130	155,750	161,119	0.6	3.4
West	132,135	125,071	131,358	-0.6	5.0

- Represents zero.

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

Total Italian Cheese Production – States and United States: May 2018 and 2019

State	May 2018	April 2019	May 2019	Change from	
				May 2018	April 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	139,619	141,457	137,126	-1.8	-3.1
Idaho	20,432	26,651	18,960	-7.2	-28.9
Minnesota	10,700	11,935	11,554	8.0	-3.2
Pennsylvania	22,236	22,409	22,851	2.8	2.0
Wisconsin	145,713	144,725	147,571	1.3	2.0
Other States ¹	122,117	129,676	133,482	9.3	2.9
United States	460,817	476,853	471,544	2.3	-1.1
Atlantic	56,023	58,488	58,030	3.6	-0.8
Central	189,827	191,641	196,882	3.7	2.7
West	214,967	226,724	216,632	0.8	-4.5

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 2018 and 2019

State	May 2018	April 2019	May 2019	Change from	
				May 2018	April 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	127,706	128,887	126,313	-1.1	-2.0
Idaho	19,778	25,909	18,435	-6.8	-28.8
Pennsylvania	19,068	18,483	19,563	2.6	5.8
Wisconsin	96,178	94,233	97,400	1.3	3.4
Other States ¹	96,342	106,155	108,764	12.9	2.5
United States	359,072	373,667	370,475	3.2	-0.9
Atlantic	36,836	37,195	37,948	3.0	2.0
Central	122,236	124,262	129,082	5.6	3.9
West	200,000	212,210	203,445	1.7	-4.1

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

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

State	May 2018	April 2019	May 2019	Change from	
				May 2018	April 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	50,671	54,518	51,789	2.2	-5.0
Pennsylvania	8,602	7,323	7,969	-7.4	8.8
Other States ¹	110,849	102,833	103,209	-6.9	0.4
United States	170,122	164,674	162,967	-4.2	-1.0
Atlantic	18,453	16,851	17,518	-5.1	4.0
Central	70,767	61,891	62,650	-11.5	1.2
West	80,902	85,932	82,799	2.3	-3.6

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 2018 and 2019

State	May 2018	April 2019	May 2019	Change from	
				May 2018	April 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	54,218	69,211	69,617	28.4	0.6
Pennsylvania	19,173	16,005	17,516	-8.6	9.4
Other States ¹	92,279	79,833	86,739	-6.0	8.7
United States	165,670	165,049	173,872	5.0	5.3
Atlantic	37,639	36,098	38,471	2.2	6.6
Central	27,335	24,679	28,569	4.5	15.8
West	100,696	104,272	106,832	6.1	2.5

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 2018 and 2019

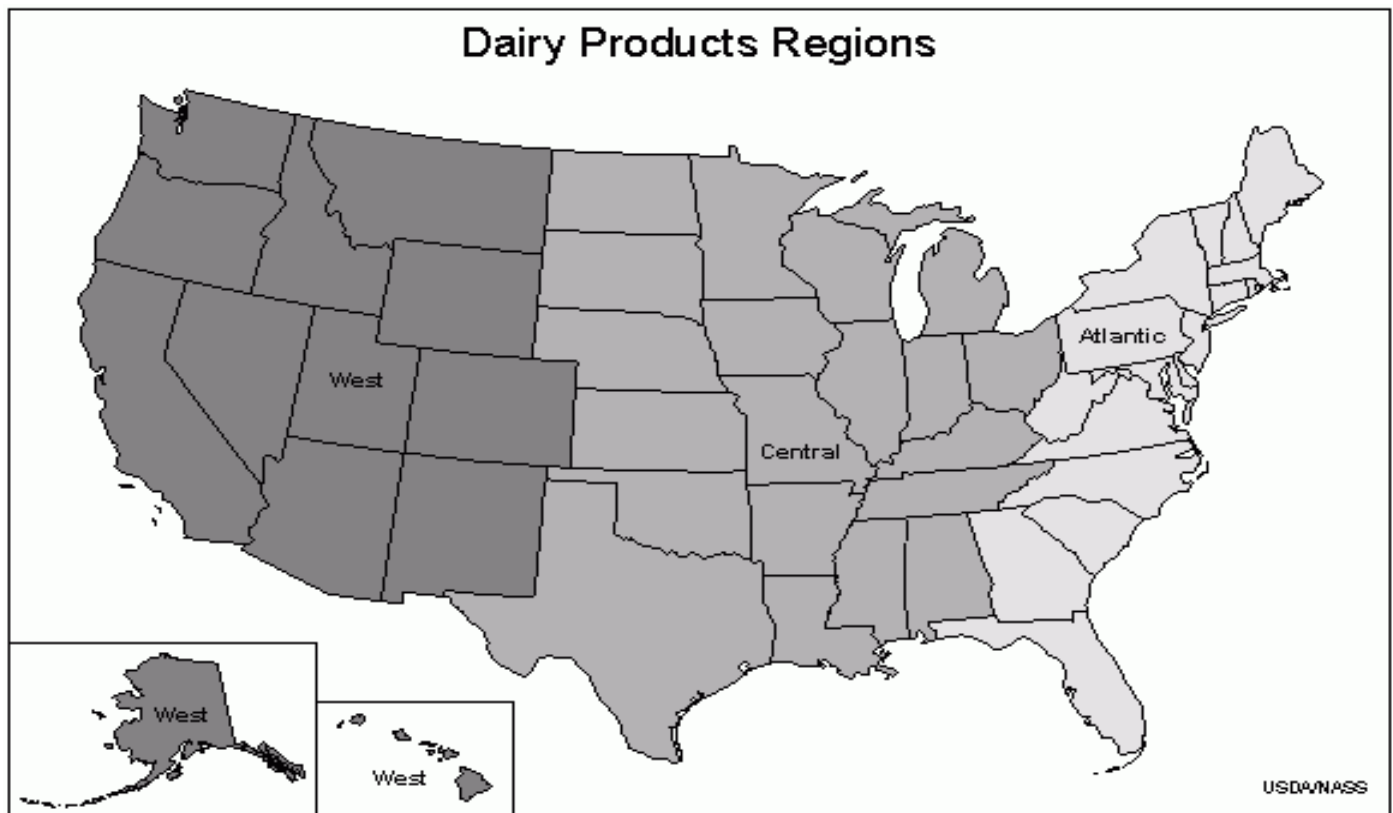
State	May 2018	April 2019	May 2019	Change from	
				May 2018	April 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Wisconsin	28,396	21,475	24,289	-14.5	13.1
Other States ¹	55,335	52,326	53,255	-3.8	1.8
United States	83,731	73,801	77,544	-7.4	5.1
Atlantic	22,255	21,781	22,139	-0.5	1.6
Central	40,293	31,073	34,622	-14.1	11.4
West	21,183	20,947	20,783	-1.9	-0.8

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 2018 and 2019

State	May 2018	April 2019	May 2019	Change from	
				May 2018	April 2019
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
California	6,165	5,663	7,002	13.6	23.6
Connecticut	1,255	1,092	1,146	-8.7	4.9
Missouri	3,266	3,020	3,219	-1.4	6.6
Ohio	2,608	2,099	2,636	1.1	25.6
Oregon	1,449	1,464	1,500	3.5	2.5
Pennsylvania	3,623	3,649	3,360	-7.3	-7.9
Tennessee	1,972	2,349	1,899	-3.7	-19.2
Utah	3,109	2,218	2,222	-28.5	0.2
Other States ¹	41,104	42,537	41,881	1.9	-1.5
United States	64,551	64,091	64,865	0.5	1.2
Atlantic	14,810	13,927	13,833	-6.6	-0.7
Central	36,805	38,505	38,078	3.5	-1.1
West	12,936	11,659	12,954	0.1	11.1

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 2018, there were 1,273 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

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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.
- 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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