



Dairy Products

ISSN: 1949-0399

Released June 4, 2019, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

April 2019 Highlights

Total cheese output (excluding cottage cheese) was 1.08 billion pounds, 0.2 percent above April 2018 but 3.6 percent below March 2019.

Italian type cheese production totaled 474 million pounds, 2.9 percent above April 2018 but 4.2 percent below March 2019.

American type cheese production totaled 432 million pounds, 2.8 percent below April 2018 and 1.9 percent below March 2019.

Butter production was 167 million pounds, 4.8 percent below April 2018 and 3.9 percent below March 2019.

Dry milk products (comparisons in percentage with April 2018)

Nonfat dry milk, human - 165 million pounds, down 2.6 percent.

Skim milk powder - 45.0 million pounds, down 9.0 percent.

Whey products (comparisons in percentage with April 2018)

Dry whey, total - 74.0 million pounds, down 13.7 percent.

Lactose, human and animal - 108 million pounds, up 15.9 percent.

Whey protein concentrate, total - 41.4 million pounds, down 1.1 percent.

Frozen products (comparisons in percentage with April 2018)

Ice cream, regular (hard) - 63.2 million gallons, up 0.6 percent.

Ice cream, lowfat (total) - 43.5 million gallons, up 6.5 percent.

Sherbet (hard) - 3.26 million gallons, down 8.9 percent.

Frozen yogurt (total) - 4.89 million gallons, down 6.2 percent.

Contents

Dairy Products Production by Product – United States: April 2018 and 2019	3
Whey and Modified Whey Products Production, Stocks, and Prices – United States: April 2018 and 2019	4
Condensed and Dry Milk Products Production, Stocks, and Shipments – United States: April 2018 and 2019	5
Dairy Products Production by Product and Month – United States: 2018 and 2019	6
Total Cheese Production Excluding Cottage Cheese – States and United States: April 2018 and 2019	13
American Cheese Production – States and United States: April 2018 and 2019	14
Cheddar Cheese Production – States and United States: April 2018 and 2019	14
Total Italian Cheese Production – States and United States: April 2018 and 2019	15
Mozzarella Cheese Production – States and United States: April 2018 and 2019	15
Butter Production – States and United States: April 2018 and 2019	16
Nonfat Dry Milk (Human) Production – States and United States: April 2018 and 2019	16
Dry Whey (Human) Production – States and United States: April 2018 and 2019	17
Ice Cream, Regular (Hard) Production – States and United States: April 2018 and 2019	17
Dairy Products Regions.....	18
Statistical Methodology.....	19
Information Contacts.....	20

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

Product	April 2018	March 2019	April 2019	Change from	
				April 2018	March 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Butter	175,216	173,558	166,740	-4.8	-3.9
Cheese					
American types ¹	444,287	440,262	431,877	-2.8	-1.9
Cheddar	319,153	312,494	308,492	-3.3	-1.3
Other American types	125,134	127,768	123,385	-1.4	-3.4
Blue and Gorgonzola	7,863	7,854	7,461	-5.1	-5.0
Brick and Muenster	16,134	14,921	16,797	4.1	12.6
Cream and Neufchatel	68,434	77,650	67,668	-1.1	-12.9
Feta	12,036	11,990	11,730	-2.5	-2.2
Gouda	4,513	4,136	3,606	-20.1	-12.8
Hispanic	24,115	28,828	27,189	12.7	-5.7
Italian types	460,768	494,933	474,298	2.9	-4.2
Mozzarella	358,320	392,018	372,742	4.0	-4.9
Parmesan	39,631	37,772	39,180	-1.1	3.7
Provolone	34,496	31,097	32,806	-4.9	5.5
Ricotta	17,734	22,573	18,547	4.6	-17.8
Romano	4,678	4,145	4,463	-4.6	7.7
Other Italian types	5,909	7,328	6,560	11.0	-10.5
Swiss	26,828	27,696	27,504	2.5	-0.7
All other types	13,170	12,255	12,168	-7.6	-0.7
Total cheese ²	1,078,148	1,120,525	1,080,298	0.2	-3.6
Cottage cheese, curd ³	33,353	33,553	33,242	-0.3	-0.9
Cottage cheese, cream ⁴	29,410	30,228	29,896	1.7	-1.1
Cottage cheese, lowfat ⁵	29,982	28,122	28,258	-5.8	0.5
Sour cream	111,335	108,829	117,055	5.1	7.6
Yogurt, plain and flavored	358,160	390,607	367,090	2.5	-6.0
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
Frozen products					
Ice cream, regular, hard	62,821	65,449	63,180	0.6	-3.5
Ice cream, lowfat, hard	18,555	21,422	21,814	17.6	1.8
Ice cream, lowfat, soft	22,245	20,189	21,648	-2.7	7.2
Ice cream, lowfat, total ⁶	40,800	41,611	43,462	6.5	4.4
Ice cream, nonfat, hard	697	923	762	9.3	-17.4
Sherbet, hard	3,578	3,502	3,258	-8.9	-7.0
Frozen yogurt, total	5,212	4,750	4,888	-6.2	2.9
Regular and lowfat, hard	1,745	1,556	1,387	-20.5	-10.9
Nonfat, hard	530	446	564	6.4	26.5
Other frozen dairy products	2,105	2,760	1,728	-17.9	-37.4
Water and juice ices	6,464	6,398	6,243	-3.4	-2.4
Mix for frozen products					
Ice cream, regular, mix	39,523	38,887	38,566	-2.4	-0.8
Ice cream, lowfat, mix ⁷	23,685	23,364	24,444	3.2	4.6
Ice cream, nonfat, mix	566	757	572	1.1	-24.4
Sherbet mix	2,299	2,330	2,103	-8.5	-9.7
Yogurt mix	3,029	2,987	2,317	-23.5	-22.4

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:
April 2018 and 2019**

Product	April 2018	March 2019	April 2019	Change from	
				April 2018	March 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Condensed whey, solids content ¹					
Sweet-type, human	9,354	10,837	8,641	-7.6	-20.3
Dry whey products					
Dry whey, human	84,502	75,085	72,814	-13.8	-3.0
Dry whey, animal	1,229	1,287	1,202	-2.2	-6.6
Dry whey, total	85,731	76,372	74,016	-13.7	-3.1
Reduced lactose and minerals					
Human	2,258	1,688	2,030	-10.1	20.3
Animal	3,148	3,074	2,785	-11.5	-9.4
Whey protein concentrate					
Human ²	41,518	41,594	40,493	-2.5	-2.6
Animal ²	369	1,175	920	149.3	-21.7
Total ²	41,887	42,769	41,413	-1.1	-3.2
25.0-49.9 percent ³	15,321	15,177	16,500	7.7	8.7
50.0-89.9 percent ³	26,566	27,592	24,913	-6.2	-9.7
Whey protein isolates ⁴	10,034	9,341	8,943	-10.9	-4.3
Lactose, human and animal	93,472	114,527	108,326	15.9	-5.4
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	66,466	82,581	73,750	11.0	-10.7
Dry whey, animal	2,277	1,087	1,097	-51.8	0.9
Dry whey, total	68,743	83,668	74,847	8.9	-10.5
Reduced Lactose and minerals					
Human and animal ⁶	4,538	5,161	5,418	19.4	5.0
Whey protein concentrate					
Human ²	74,928	60,880	57,799	-22.9	-5.1
Animal ²	792	1,014	1,109	40.0	9.4
Total ²	75,720	61,894	58,908	-22.2	-4.8
25.0-49.9 percent ³	24,046	26,817	24,541	2.1	-8.5
50.0-89.9 percent ³	51,674	35,077	34,367	-33.5	-2.0
Whey protein isolates ⁴	25,270	20,049	19,458	-23.0	-2.9
Lactose, human and animal	104,950	106,071	114,314	8.9	7.8
	(cents per pound)	(cents per pound)	(cents per pound)	(cents change)	(cents change)
Manufacturers' selling price ⁷					
Dry whey, animal	13.2	18.5	19.3	6.1	0.9

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:
April 2018 and 2019**

Product	April 2018	March 2019	April 2019	Change from	
				April 2018	March 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Production					
Bulk condensed milk					
Skim, unsweetened	131,409	130,422	127,836	-2.7	-2.0
Dry milk products					
Dry buttermilk, total	10,118	9,979	10,036	-0.8	0.6
Dry skim milk, animal	1,349	760	594	-56.0	-21.8
Dry whole milk	13,912	24,470	24,771	78.1	1.2
Milk protein concentrate, total ¹	15,863	14,387	15,766	-0.6	9.6
Nonfat dry milk, human	169,428	163,944	165,041	-2.6	0.7
Skim milk powder, total ²	49,457	46,677	45,014	-9.0	-3.6
Manufacturers' stocks end-of-month ³					
Dry milk products					
Dry buttermilk, total	23,177	17,860	16,354	-29.4	-8.4
Dry skim milk, animal	3,353	4,362	2,336	-30.3	-46.4
Dry whole milk	47,243	30,318	38,309	-18.9	26.4
Nonfat dry milk, human	273,346	289,965	277,620	1.6	-4.3
Manufacturers' shipments ⁴					
Dry milk products					
Nonfat dry milk, human	181,206	173,109	170,851	-5.7	-1.3

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: 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	1,080,298	0.2	4,277,664	4,290,522	0.3
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	440,262	-0.7	1,297,498	1,270,572	-2.1
April	444,287	431,877	-2.8	1,741,785	1,702,449	-2.3
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	312,494	-2.4	953,498	916,520	-3.9
April	319,153	308,492	-3.3	1,272,651	1,225,012	-3.7
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	494,933	2.5	1,385,108	1,416,149	2.2
April	460,768	474,298	2.9	1,845,876	1,890,447	2.4
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	392,018	5.2	1,066,866	1,118,879	4.9
April	358,320	372,742	4.0	1,425,186	1,491,621	4.7
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	7,328	14.2	17,655	20,154	14.2
April	5,909	6,560	11.0	23,564	26,714	13.4
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	173,558	-4.6	531,659	527,725	-0.7
April	175,216	166,740	-4.8	706,875	694,465	-1.8
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	163,944	-7.9	494,357	490,440	-0.8
April	169,428	165,041	-2.6	663,785	655,481	-1.3
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	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			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	76,372	-16.4	271,368	232,522	-14.3
April	85,731	74,016	-13.7	357,099	306,538	-14.2
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	114,527	13.5	281,915	324,193	15.0
April	93,472	108,326	15.9	375,387	432,519	15.2
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	42,769	-15.2	135,902	125,234	-7.8
April	41,887	41,413	-1.1	177,789	166,647	-6.3
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	30,228	-7.4	87,849	84,644	-3.6
April	29,410	29,896	1.7	117,259	114,540	-2.3
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	28,122	-10.3	88,216	81,630	-7.5
April	29,982	28,258	-5.8	118,198	109,888	-7.0
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	108,829	-6.5	335,595	330,727	-1.5
April	111,335	117,055	5.1	446,930	447,782	0.2
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	65,449	3.0	172,684	171,120	-0.9
April	62,821	63,180	0.6	235,505	234,300	-0.5
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	41,611	1.2	108,499	105,405	-2.9
April	40,800	43,462	6.5	149,299	148,867	-0.3
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	3,502	4.0	9,338	8,706	-6.8
April	3,578	3,258	-8.9	12,916	11,964	-7.4
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	390,607	0.2	1,138,573	1,116,046	-2.0
April	358,160	367,090	2.5	1,496,733	1,483,136	-0.9
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	4,750	-13.6	13,643	14,395	5.5
April	5,212	4,888	-6.2	18,855	19,283	2.3
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: April 2018 and 2019

State	April 2018	March 2019	April 2019	Change from	
				April 2018	March 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	210,797	215,588	212,178	0.7	-1.6
Idaho	85,569	89,707	83,665	-2.2	-6.7
Illinois	6,773	6,352	6,914	2.1	8.8
Iowa	24,042	28,728	26,270	9.3	-8.6
Minnesota	61,934	62,678	59,317	-4.2	-5.4
New Jersey	4,733	5,111	4,632	-2.1	-9.4
New Mexico	74,638	79,427	79,105	6.0	-0.4
Ohio	19,100	18,960	18,748	-1.8	-1.1
Oregon	17,672	18,146	17,701	0.2	-2.5
Pennsylvania	35,341	38,460	35,547	0.6	-7.6
South Dakota	24,009	25,260	25,343	5.6	0.3
Vermont	12,437	12,274	11,893	-4.4	-3.1
Wisconsin	285,360	293,050	279,478	-2.1	-4.6
Other States ¹	215,743	226,784	219,507	1.7	-3.2
United States	1,078,148	1,120,525	1,080,298	0.2	-3.6
Atlantic	127,164	139,130	126,766	-0.3	-8.9
Central	495,336	509,479	491,804	-0.7	-3.5
West	455,648	471,916	461,728	1.3	-2.2

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 2018 and 2019

State	April 2018	March 2019	April 2019	Change from	
				April 2018	March 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	52,790	54,547	49,856	-5.6	-8.6
Idaho	56,079	52,639	51,005	-9.0	-3.1
Iowa	14,555	16,100	16,109	10.7	0.1
Minnesota	51,088	49,844	47,318	-7.4	-5.1
Oregon	17,587	18,070	17,612	0.1	-2.5
Wisconsin	88,633	85,631	84,700	-4.4	-1.1
Other States ¹	163,555	163,431	165,277	1.1	1.1
United States	444,287	440,262	431,877	-2.8	-1.9
Atlantic	27,847	29,056	27,619	-0.8	-4.9
Central	221,340	215,767	215,147	-2.8	-0.3
West	195,100	195,439	189,111	-3.1	-3.2

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 2018 and 2019

State	April 2018	March 2019	April 2019	Change from	
				April 2018	March 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	23,830	31,117	27,424	15.1	-11.9
Idaho	46,346	37,393	35,165	-24.1	-6.0
Iowa	8,771	7,960	8,788	0.2	10.4
Minnesota	47,488	48,919	46,019	-3.1	-5.9
Oregon	15,193	13,572	14,966	-1.5	10.3
Vermont	8,791	8,872	8,323	-5.3	-6.2
Wisconsin	63,031	62,149	61,400	-2.6	-1.2
Other States ¹	105,703	102,512	106,407	0.7	3.8
United States	319,153	312,494	308,492	-3.3	-1.3
Atlantic	26,614	27,582	26,143	-1.8	-5.2
Central	159,424	155,797	157,278	-1.3	1.0
West	133,115	129,115	125,071	-6.0	-3.1

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 2018 and 2019

State	April 2018	March 2019	April 2019	Change from	
				April 2018	March 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	138,333	141,173	141,461	2.3	0.2
Idaho	23,602	31,228	26,651	12.9	-14.7
Minnesota	10,626	12,611	11,706	10.2	-7.2
Pennsylvania	21,661	22,759	22,405	3.4	-1.6
Wisconsin	144,833	152,308	143,718	-0.8	-5.6
Other States ¹	121,713	134,854	128,357	5.5	-4.8
United States	460,768	494,933	474,298	2.9	-4.2
Atlantic	56,260	61,610	57,164	1.6	-7.2
Central	188,694	199,889	190,405	0.9	-4.7
West	215,814	233,434	226,729	5.1	-2.9

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

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

State	April 2018	March 2019	April 2019	Change from	
				April 2018	March 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	124,367	131,591	128,891	3.6	-2.1
Idaho	22,688	30,541	25,909	14.2	-15.2
Pennsylvania	19,111	19,683	18,482	-3.3	-6.1
Wisconsin	95,627	101,141	94,000	-1.7	-7.1
Other States ¹	96,527	109,062	105,460	9.3	-3.3
United States	358,320	392,018	372,742	4.0	-4.9
Atlantic	37,451	40,047	36,727	-1.9	-8.3
Central	121,218	130,423	123,800	2.1	-5.1
West	199,651	221,548	212,215	6.3	-4.2

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

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

State	April 2018	March 2019	April 2019	Change from	
				April 2018	March 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	53,467	55,286	54,518	2.0	-1.4
Pennsylvania	8,583	7,653	7,323	-14.7	-4.3
Other States ¹	113,166	110,619	104,899	-7.3	-5.2
United States	175,216	173,558	166,740	-4.8	-3.9
Atlantic	19,059	17,189	16,219	-14.9	-5.6
Central	73,568	70,510	64,589	-12.2	-8.4
West	82,589	85,859	85,932	4.0	0.1

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 2018 and 2019

State	April 2018	March 2019	April 2019	Change from	
				April 2018	March 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	58,724	68,561	69,211	17.9	0.9
Pennsylvania	18,765	15,560	16,005	-14.7	2.9
Other States ¹	91,939	79,823	79,825	-13.2	-
United States	169,428	163,944	165,041	-2.6	0.7
Atlantic	36,041	33,447	36,097	0.2	7.9
Central	33,177	27,588	24,674	-25.6	-10.6
West	100,210	102,909	104,270	4.1	1.3

- Represents zero.

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 2018 and 2019

State	April 2018	March 2019	April 2019	Change from	
				April 2018	March 2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Wisconsin	29,501	23,706	20,628	-30.1	-13.0
Other States ¹	55,001	51,379	52,186	-5.1	1.6
United States	84,502	75,085	72,814	-13.8	-3.0
Atlantic	22,354	19,363	21,641	-3.2	11.8
Central	41,020	33,511	30,226	-26.3	-9.8
West	21,128	22,211	20,947	-0.9	-5.7

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 2018 and 2019

State	April 2018	March 2019	April 2019	Change from	
				April 2018	March 2019
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
California	5,606	5,978	5,888	5.0	-1.5
Connecticut	1,103	1,110	1,080	-2.1	-2.7
Missouri	3,193	3,403	3,020	-5.4	-11.3
Ohio	2,513	2,010	2,099	-16.5	4.4
Oregon	1,369	1,317	1,464	6.9	11.2
Pennsylvania	3,249	3,345	3,649	12.3	9.1
Tennessee	1,603	2,011	1,579	-1.5	-21.5
Utah	2,854	1,927	2,225	-22.0	15.5
Other States ¹	41,331	44,348	42,176	2.0	-4.9
United States	62,821	65,449	63,180	0.6	-3.5
Atlantic	14,227	14,235	13,908	-2.2	-2.3
Central	36,640	39,757	37,381	2.0	-6.0
West	11,954	11,457	11,891	-0.5	3.8

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 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

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.

Travis Averill, Chief, Livestock Branch	(202) 720-3570
Scott Hollis, Head, Livestock Section	(202) 690-2424
Sherry Bertramsen – Livestock Slaughter	(202) 690-8632
Holly Brenize – Sheep and Goats	(202) 720-0585
Donnie Fike – Dairy Products	(202) 720-4448
Heidi Gleich – Cattle, Cattle on Feed	(202) 720-3040
Mike Miller – Milk Production and Milk Cows	(202) 720-3278
Seth Riggins – Hogs and Pigs	(202) 720-3106

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- All reports are available electronically, at no cost, on the NASS web site: www.nass.usda.gov
- Both national and state specific reports are available via a free e-mail subscription. To set-up this free subscription, visit www.nass.usda.gov and click on “National” or “State” in upper right corner above “search” box to create an account and select the reports you would like to receive.
- 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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