



Dairy Products

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November 2018 Highlights

Total cheese output (excluding cottage cheese) was 1.08 billion pounds, 1.0 percent above November 2017 but 4.3 percent below October 2018.

Italian type cheese production totaled 464 million pounds, 1.6 percent above November 2017 but 2.2 percent below October 2018.

American type cheese production totaled 423 million pounds, 2.2 percent above November 2017 but 3.5 percent below October 2018.

Butter production was 146 million pounds, 2.7 percent below November 2017 but 1.5 percent above October 2018.

Dry milk products (comparisons in percentage with November 2017)

Nonfat dry milk, human - 130 million pounds, down 7.7 percent.

Skim milk powder - 30.4 million pounds, down 26.9 percent.

Whey products (comparisons in percentage with November 2017)

Dry whey, total - 74.7 million pounds, down 8.6 percent.

Lactose, human and animal - 97.9 million pounds, up 13.7 percent.

Whey protein concentrate, total - 39.4 million pounds, down 2.9 percent.

Frozen products (comparisons in percentage with November 2017)

Ice cream, regular (hard) - 51.9 million gallons, up 4.6 percent.

Ice cream, lowfat (total) - 26.9 million gallons, down 3.9 percent.

Sherbet (hard) - 2.37 million gallons, up 0.9 percent.

Frozen yogurt (total) - 3.89 million gallons, down 4.4 percent.

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

Product	November 2017	October 2018	November 2018	Change from	
				November 2017	October 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Butter	149,721	143,480	145,637	-2.7	1.5
Cheese					
American types ¹	413,714	438,187	422,799	2.2	-3.5
Cheddar	296,598	307,510	304,507	2.7	-1.0
Other American types	117,116	130,677	118,292	1.0	-9.5
Blue and Gorgonzola	7,533	7,999	7,385	-2.0	-7.7
Brick and Muenster	16,066	18,079	15,860	-1.3	-12.3
Cream and Neufchatel	88,400	98,983	85,821	-2.9	-13.3
Feta	8,871	12,915	9,939	12.0	-23.0
Gouda	8,213	6,190	6,414	-21.9	3.6
Hispanic	24,440	29,650	26,528	8.5	-10.5
Italian types	456,821	474,764	464,305	1.6	-2.2
Mozzarella	351,511	373,332	363,172	3.3	-2.7
Parmesan	37,886	32,779	33,259	-12.2	1.5
Provolone	32,528	34,502	32,061	-1.4	-7.1
Ricotta	22,682	23,928	24,383	7.5	1.9
Romano	4,967	3,962	4,566	-8.1	15.2
Other Italian types	7,247	6,261	6,864	-5.3	9.6
Swiss	26,837	27,252	28,227	5.2	3.6
All other types	19,773	15,872	14,361	-27.4	-9.5
Total cheese ²	1,070,668	1,129,891	1,081,639	1.0	-4.3
Cottage cheese, curd ³	29,668	32,520	30,245	1.9	-7.0
Cottage cheese, cream ⁴	26,066	29,851	27,230	4.5	-8.8
Cottage cheese, lowfat ⁵	26,060	28,298	24,853	-4.6	-12.2
Sour cream	129,312	128,045	130,416	0.9	1.9
Yogurt, plain and flavored	317,564	369,690	318,964	0.4	-13.7
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
Frozen products					
Ice cream, regular, hard	49,618	59,756	51,921	4.6	-13.1
Ice cream, lowfat, hard	12,418	17,784	13,992	12.7	-21.3
Ice cream, lowfat, soft	15,528	16,107	12,870	-17.1	-20.1
Ice cream, lowfat, total ⁶	27,946	33,891	26,862	-3.9	-20.7
Ice cream, nonfat, hard	354	707	488	37.9	-31.0
Sherbet, hard	2,352	3,109	2,373	0.9	-23.7
Frozen yogurt, total	4,070	4,074	3,889	-4.4	-4.5
Regular and lowfat, hard	1,375	1,216	1,271	-7.6	4.5
Nonfat, hard	355	505	278	-21.7	-45.0
Other frozen dairy products	2,178	1,891	1,135	-47.9	-40.0
Water and juice ices	3,437	4,399	4,008	16.6	-8.9
Mix for frozen products					
Ice cream, regular, mix	29,828	34,834	30,226	1.3	-13.2
Ice cream, lowfat, mix ⁷	14,708	19,005	15,071	2.5	-20.7
Ice cream, nonfat, mix	402	432	342	-14.9	-20.8
Sherbet mix	1,586	2,558	1,555	-2.0	-39.2
Yogurt mix	2,197	2,004	1,822	-17.1	-9.1

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:
November 2017 and 2018**

Product	November 2017	October 2018	November 2018	Change from	
				November 2017	October 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Condensed whey, solids content ¹					
Sweet-type, human	9,493	6,029	6,850	-27.8	13.6
Dry whey products					
Dry whey, human	79,807	85,322	72,983	-8.6	-14.5
Dry whey, animal	1,850	1,645	1,685	-8.9	2.4
Dry whey, total	81,657	86,967	74,668	-8.6	-14.1
Reduced lactose and minerals					
Human	1,298	1,367	1,409	8.6	3.1
Animal	2,621	3,646	2,806	7.1	-23.0
Whey protein concentrate					
Human ²	39,999	42,531	39,172	-2.1	-7.9
Animal ²	552	359	218	-60.5	-39.3
Total ²	40,551	42,890	39,390	-2.9	-8.2
25.0-49.9 percent ³	15,083	16,163	14,442	-4.2	-10.6
50.0-89.9 percent ³	25,468	26,727	24,948	-2.0	-6.7
Whey protein isolates ⁴	8,885	11,173	9,749	9.7	-12.7
Lactose, human and animal	86,105	85,771	97,884	13.7	14.1
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	98,453	72,140	63,938	-35.1	-11.4
Dry whey, animal	1,830	1,690	1,669	-8.8	-1.2
Dry whey, total	100,283	73,830	65,607	-34.6	-11.1
Reduced Lactose and minerals					
Human and animal ⁶	5,314	4,163	4,058	-23.6	-2.5
Whey protein concentrate					
Human ²	80,817	58,273	59,483	-26.4	2.1
Animal ²	737	885	895	21.4	1.1
Total ²	81,554	59,158	60,378	-26.0	2.1
25.0-49.9 percent ³	24,004	19,842	21,400	-10.8	7.9
50.0-89.9 percent ³	57,550	39,316	38,978	-32.3	-0.9
Whey protein isolates ⁴	27,998	23,610	24,562	-12.3	4.0
Lactose, human and animal	143,073	89,824	86,321	-39.7	-3.9
	(cents per pound)	(cents per pound)	(cents per pound)	(cents change)	(cents change)
Manufacturers' selling price ⁷					
Dry whey, animal	15.1	22.7	32.6	17.5	9.9

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:
November 2017 and 2018**

Product	November 2017	October 2018	November 2018	Change from	
				November 2017	October 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Production					
Bulk condensed milk					
Skim, unsweetened	107,444	118,055	102,981	-4.2	-12.8
Dry milk products					
Dry buttermilk, total	10,119	9,367	9,011	-10.9	-3.8
Dry skim milk, animal	956	728	522	-45.4	-28.3
Dry whole milk	15,853	5,520	7,378	-53.5	33.7
Milk protein concentrate, total ¹	5,779	8,101	8,983	55.4	10.9
Nonfat dry milk, human	141,440	125,067	130,493	-7.7	4.3
Skim milk powder, total ²	41,609	37,464	30,399	-26.9	-18.9
Manufacturers' stocks end-of-month ³					
Dry milk products					
Dry buttermilk, total	21,094	12,836	10,828	-48.7	-15.6
Dry skim milk, animal	2,023	4,028	3,626	79.2	-10.0
Dry whole milk	27,878	18,733	17,483	-37.3	-6.7
Nonfat dry milk, human	316,969	252,045	287,120	-9.4	13.9
Manufacturers' shipments ⁴					
Dry milk products					
Nonfat dry milk, human	121,488	118,620	105,000	-13.6	-11.5

¹ Dry milk protein concentrate, 40-89.9 percent.

² Includes protein standardized and blends.

³ Stocks held by manufacturers at all points and in transit.

⁴ For dry products, shipments of bulk goods.

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

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

Product and month	Monthly			Cumulative		
	2017	2018	Change from 2017	2017	2018	Change from 2017
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Total cheese ¹						
January	1,064,232	1,096,520	3.0	1,064,232	1,096,520	3.0
February	957,650	985,969	3.0	2,021,882	2,082,489	3.0
March	1,071,819	1,108,389	3.4	3,093,701	3,190,878	3.1
April	1,057,848	1,073,438	1.5	4,151,549	4,264,316	2.7
May	1,076,171	1,084,611	0.8	5,227,720	5,348,927	2.3
June	1,045,875	1,062,520	1.6	6,273,595	6,411,447	2.2
July	1,051,675	1,082,772	3.0	7,325,270	7,494,219	2.3
August	1,046,041	1,078,404	3.1	8,371,311	8,572,623	2.4
September	1,024,757	1,054,470	2.9	9,396,068	9,627,093	2.5
October	1,086,865	1,129,891	4.0	10,482,933	10,756,984	2.6
November	1,070,668	1,081,639	1.0	11,553,601	11,838,623	2.5
December	1,105,490			12,659,091		
Total American cheese types ²						
January	434,627	433,670	-0.2	434,627	433,670	-0.2
February	390,314	397,364	1.8	824,941	831,034	0.7
March	429,558	443,491	3.2	1,254,499	1,274,525	1.6
April	434,657	443,257	2.0	1,689,156	1,717,782	1.7
May	443,083	443,503	0.1	2,132,239	2,161,285	1.4
June	419,260	429,895	2.5	2,551,499	2,591,180	1.6
July	414,495	440,653	6.3	2,965,994	3,031,833	2.2
August	414,280	426,427	2.9	3,380,274	3,458,260	2.3
September	403,544	417,313	3.4	3,783,818	3,875,573	2.4
October	430,485	438,187	1.8	4,214,303	4,313,760	2.4
November	413,714	422,799	2.2	4,628,017	4,736,559	2.3
December	443,974			5,071,991		
Cheddar cheese						
January	327,328	318,254	-2.8	327,328	318,254	-2.8
February	291,508	293,255	0.6	618,836	611,509	-1.2
March	323,442	321,144	-0.7	942,278	932,653	-1.0
April	329,671	318,849	-3.3	1,271,949	1,251,502	-1.6
May	327,456	319,684	-2.4	1,599,405	1,571,186	-1.8
June	302,090	313,351	3.7	1,901,495	1,884,537	-0.9
July	298,285	326,370	9.4	2,199,780	2,210,907	0.5
August	298,306	303,563	1.8	2,498,086	2,514,470	0.7
September	291,755	290,846	-0.3	2,789,841	2,805,316	0.6
October	307,833	307,510	-0.1	3,097,674	3,112,826	0.5
November	296,598	304,507	2.7	3,394,272	3,417,333	0.7
December	327,062			3,721,334		

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2017 and 2018 (continued)

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

Product and month	Monthly			Cumulative		
	2017	2018	Change from 2017	2017	2018	Change from 2017
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Total Italian cheese types						
January	454,575	474,348	4.3	454,575	474,348	4.3
February	406,179	426,472	5.0	860,754	900,820	4.7
March	470,053	481,404	2.4	1,330,807	1,382,224	3.9
April	447,937	455,198	1.6	1,778,744	1,837,422	3.3
May	452,332	457,691	1.2	2,231,076	2,295,113	2.9
June	450,027	449,219	-0.2	2,681,103	2,744,332	2.4
July	451,922	463,547	2.6	3,133,025	3,207,879	2.4
August	437,003	455,993	4.3	3,570,028	3,663,872	2.6
September	432,619	450,871	4.2	4,002,647	4,114,743	2.8
October	454,641	474,764	4.4	4,457,288	4,589,507	3.0
November	456,821	464,305	1.6	4,914,109	5,053,812	2.8
December	469,755			5,383,864		
Mozzarella						
January	352,768	366,988	4.0	352,768	366,988	4.0
February	314,602	327,413	4.1	667,370	694,401	4.1
March	361,368	371,264	2.7	1,028,738	1,065,665	3.6
April	347,399	353,725	1.8	1,376,137	1,419,390	3.1
May	350,530	357,591	2.0	1,726,667	1,776,981	2.9
June	349,363	353,869	1.3	2,076,030	2,130,850	2.6
July	352,014	367,215	4.3	2,428,044	2,498,065	2.9
August	335,867	358,177	6.6	2,763,911	2,856,242	3.3
September	332,180	358,006	7.8	3,096,091	3,214,248	3.8
October	347,688	373,332	7.4	3,443,779	3,587,580	4.2
November	351,511	363,172	3.3	3,795,290	3,950,752	4.1
December	365,309			4,160,599		
Other Italian cheese types						
January	6,600	5,549	-15.9	6,600	5,549	-15.9
February	6,498	5,680	-12.6	13,098	11,229	-14.3
March	7,614	6,460	-15.2	20,712	17,689	-14.6
April	6,666	5,869	-12.0	27,378	23,558	-14.0
May	6,556	6,584	0.4	33,934	30,142	-11.2
June	7,009	6,423	-8.4	40,943	36,565	-10.7
July	6,055	6,041	-0.2	46,998	42,606	-9.3
August	5,634	6,171	9.5	52,632	48,777	-7.3
September	6,747	6,757	0.1	59,379	55,534	-6.5
October	6,271	6,261	-0.2	65,650	61,795	-5.9
November	7,247	6,864	-5.3	72,897	68,659	-5.8
December	6,351			79,248		

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2017 and 2018 (continued)

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

Product and month	Monthly			Cumulative		
	2017	2018	Change from 2017	2017	2018	Change from 2017
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Butter						
January	178,060	182,088	2.3	178,060	182,088	2.3
February	161,013	170,116	5.7	339,073	352,204	3.9
March	177,021	182,046	2.8	516,094	534,250	3.5
April	161,956	175,297	8.2	678,050	709,547	4.6
May	163,397	168,109	2.9	841,447	877,656	4.3
June	139,200	142,540	2.4	980,647	1,020,196	4.0
July	135,625	134,561	-0.8	1,116,272	1,154,757	3.4
August	131,152	133,982	2.2	1,247,424	1,288,739	3.3
September	134,552	134,800	0.2	1,381,976	1,423,539	3.0
October	144,671	143,480	-0.8	1,526,647	1,567,019	2.6
November	149,721	145,637	-2.7	1,676,368	1,712,656	2.2
December	171,105			1,847,473		
Nonfat dry milk, human						
January	153,848	160,301	4.2	153,848	160,301	4.2
February	143,231	157,833	10.2	297,079	318,134	7.1
March	160,916	178,694	11.0	457,995	496,828	8.5
April	172,821	163,859	-5.2	630,816	660,687	4.7
May	167,910	159,893	-4.8	798,726	820,580	2.7
June	162,814	146,911	-9.8	961,540	967,491	0.6
July	151,825	144,296	-5.0	1,113,365	1,111,787	-0.1
August	136,753	122,805	-10.2	1,250,118	1,234,592	-1.2
September	134,572	108,826	-19.1	1,384,690	1,343,418	-3.0
October	145,008	125,067	-13.8	1,529,698	1,468,485	-4.0
November	141,440	130,493	-7.7	1,671,138	1,598,978	-4.3
December	164,014			1,835,152		
Skim milk powder, total ³						
January	55,590	45,753	-17.7	55,590	45,753	-17.7
February	41,391	37,666	-9.0	96,981	83,419	-14.0
March	52,693	42,055	-20.2	149,674	125,474	-16.2
April	50,206	49,446	-1.5	199,880	174,920	-12.5
May	51,012	50,365	-1.3	250,892	225,285	-10.2
June	39,515	58,947	49.2	290,407	284,232	-2.1
July	47,842	47,488	-0.7	338,249	331,720	-1.9
August	44,813	47,560	6.1	383,062	379,280	-1.0
September	29,102	46,592	60.1	412,164	425,872	3.3
October	25,965	37,464	44.3	438,129	463,336	5.8
November	41,609	30,399	-26.9	479,738	493,735	2.9
December	49,895			529,633		

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2017 and 2018 (continued)

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

Product and month	Monthly			Cumulative		
	2017	2018	Change from 2017	2017	2018	Change from 2017
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Dry whey, total ⁴						
January	82,255	90,319	9.8	82,255	90,319	9.8
February	77,895	89,599	15.0	160,150	179,918	12.3
March	86,689	90,653	4.6	246,839	270,571	9.6
April	84,640	85,149	0.6	331,479	355,720	7.3
May	82,950	85,521	3.1	414,429	441,241	6.5
June	88,064	87,803	-0.3	502,493	529,044	5.3
July	100,402	92,595	-7.8	602,895	621,639	3.1
August	94,276	78,954	-16.3	697,171	700,593	0.5
September	91,302	71,228	-22.0	788,473	771,821	-2.1
October	80,750	86,967	7.7	869,223	858,788	-1.2
November	81,657	74,668	-8.6	950,880	933,456	-1.8
December	86,024			1,036,904		
Lactose, human and animal						
January	92,320	94,834	2.7	92,320	94,834	2.7
February	84,386	86,294	2.3	176,706	181,128	2.5
March	95,317	99,650	4.5	272,023	280,778	3.2
April	96,265	94,011	-2.3	368,288	374,789	1.8
May	93,634	92,544	-1.2	461,922	467,333	1.2
June	96,082	91,796	-4.5	558,004	559,129	0.2
July	98,117	97,044	-1.1	656,121	656,173	-
August	96,679	94,380	-2.4	752,800	750,553	-0.3
September	94,903	88,157	-7.1	847,703	838,710	-1.1
October	93,098	85,771	-7.9	940,801	924,481	-1.7
November	86,105	97,884	13.7	1,026,906	1,022,365	-0.4
December	97,251			1,124,157		
Whey protein concentrate, total						
January	40,329	43,461	7.8	40,329	43,461	7.8
February	36,110	39,391	9.1	76,439	82,852	8.4
March	42,354	44,932	6.1	118,793	127,784	7.6
April	42,062	40,926	-2.7	160,855	168,710	4.9
May	41,612	41,870	0.6	202,467	210,580	4.0
June	40,297	39,862	-1.1	242,764	250,442	3.2
July	41,192	39,798	-3.4	283,956	290,240	2.2
August	38,339	41,767	8.9	322,295	332,007	3.0
September	38,720	42,020	8.5	361,015	374,027	3.6
October	40,796	42,890	5.1	401,811	416,917	3.8
November	40,551	39,390	-2.9	442,362	456,307	3.2
December	41,914			484,276		

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2017 and 2018 (continued)

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

Product and month	Monthly			Cumulative		
	2017	2018	Change from 2017	2017	2018	Change from 2017
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Cottage cheese, cream						
January	26,122	25,546	-2.2	26,122	25,546	-2.2
February	25,698	26,932	4.8	51,820	52,478	1.3
March	29,010	32,696	12.7	80,830	85,174	5.4
April	25,942	29,111	12.2	106,772	114,285	7.0
May	29,538	32,368	9.6	136,310	146,653	7.6
June	27,626	31,058	12.4	163,936	177,711	8.4
July	28,007	30,126	7.6	191,943	207,837	8.3
August	30,434	31,415	3.2	222,377	239,252	7.6
September	27,146	29,013	6.9	249,523	268,265	7.5
October	28,829	29,851	3.5	278,352	298,116	7.1
November	26,066	27,230	4.5	304,418	325,346	6.9
December	26,066			330,484		
Cottage cheese, lowfat						
January	28,655	26,867	-6.2	28,655	26,867	-6.2
February	28,142	27,567	-2.0	56,797	54,434	-4.2
March	30,711	31,348	2.1	87,508	85,782	-2.0
April	29,610	29,815	0.7	117,118	115,597	-1.3
May	31,746	31,486	-0.8	148,864	147,083	-1.2
June	27,924	28,466	1.9	176,788	175,549	-0.7
July	28,450	29,329	3.1	205,238	204,878	-0.2
August	31,370	31,958	1.9	236,608	236,836	0.1
September	27,396	27,266	-0.5	264,004	264,102	-
October	29,205	28,298	-3.1	293,209	292,400	-0.3
November	26,060	24,853	-4.6	319,269	317,253	-0.6
December	25,152			344,421		
Sour cream						
January	113,967	118,603	4.1	113,967	118,603	4.1
February	99,700	98,994	-0.7	213,667	217,597	1.8
March	115,648	116,393	0.6	329,315	333,990	1.4
April	109,615	111,878	2.1	438,930	445,868	1.6
May	118,884	118,874	-	557,814	564,742	1.2
June	117,764	114,737	-2.6	675,578	679,479	0.6
July	107,401	110,077	2.5	782,979	789,556	0.8
August	118,709	118,830	0.1	901,688	908,386	0.7
September	108,314	108,381	0.1	1,010,002	1,016,767	0.7
October	126,023	128,045	1.6	1,136,025	1,144,812	0.8
November	129,312	130,416	0.9	1,265,337	1,275,228	0.8
December	121,812			1,387,149		

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2017 and 2018 (continued)

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

Product and month	Monthly			Cumulative		
	2017	2018	Change from 2017	2017	2018	Change from 2017
	(1,000 gallons)	(1,000 gallons)	(percent)	(1,000 gallons)	(1,000 gallons)	(percent)
Ice cream, regular hard						
January	56,500	54,718	-3.2	56,500	54,718	-3.2
February	58,988	55,411	-6.1	115,488	110,129	-4.6
March	74,168	64,388	-13.2	189,656	174,517	-8.0
April	69,711	63,601	-8.8	259,367	238,118	-8.2
May	72,167	66,580	-7.7	331,534	304,698	-8.1
June	74,788	71,761	-4.0	406,322	376,459	-7.3
July	69,394	70,443	1.5	475,716	446,902	-6.1
August	73,596	71,559	-2.8	549,312	518,461	-5.6
September	60,596	59,019	-2.6	609,908	577,480	-5.3
October	56,616	59,756	5.5	666,524	637,236	-4.4
November	49,618	51,921	4.6	716,142	689,157	-3.8
December	46,520			762,662		
Ice cream, lowfat total						
January	31,934	31,241	-2.2	31,934	31,241	-2.2
February	38,363	33,849	-11.8	70,297	65,090	-7.4
March	44,189	41,268	-6.6	114,486	106,358	-7.1
April	41,293	40,329	-2.3	155,779	146,687	-5.8
May	45,772	45,175	-1.3	201,551	191,862	-4.8
June	45,860	46,310	1.0	247,411	238,172	-3.7
July	42,769	43,435	1.6	290,180	281,607	-3.0
August	43,344	42,970	-0.9	333,524	324,577	-2.7
September	35,226	34,572	-1.9	368,750	359,149	-2.6
October	34,566	33,891	-2.0	403,316	393,040	-2.5
November	27,946	26,862	-3.9	431,262	419,902	-2.6
December	28,552			459,814		
Sherbet, hard						
January	3,295	2,975	-9.7	3,295	2,975	-9.7
February	3,005	2,995	-0.3	6,300	5,970	-5.2
March	3,770	3,292	-12.7	10,070	9,262	-8.0
April	3,788	3,654	-3.5	13,858	12,916	-6.8
May	3,582	3,514	-1.9	17,440	16,430	-5.8
June	3,819	3,409	-10.7	21,259	19,839	-6.7
July	3,319	3,151	-5.1	24,578	22,990	-6.5
August	3,697	3,467	-6.2	28,275	26,457	-6.4
September	3,282	3,188	-2.9	31,557	29,645	-6.1
October	2,542	3,109	22.3	34,099	32,754	-3.9
November	2,352	2,373	0.9	36,451	35,127	-3.6
December	2,181			38,632		

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2017 and 2018 (continued)

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

Product and month	Monthly			Cumulative		
	2017	2018	Change from 2017	2017	2018	Change from 2017
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Yogurt, plain and flavored						
January	381,750	365,342	-4.3	381,750	365,342	-4.3
February	369,841	375,716	1.6	751,591	741,058	-1.4
March	411,605	390,586	-5.1	1,163,196	1,131,644	-2.7
April	375,287	358,583	-4.5	1,538,483	1,490,227	-3.1
May	385,257	371,391	-3.6	1,923,740	1,861,618	-3.2
June	376,335	368,426	-2.1	2,300,075	2,230,044	-3.0
July	349,529	358,204	2.5	2,649,604	2,588,248	-2.3
August	396,182	397,456	0.3	3,045,786	2,985,704	-2.0
September	393,654	369,615	-6.1	3,439,440	3,355,319	-2.4
October	368,558	369,690	0.3	3,807,998	3,725,009	-2.2
November	317,564	318,964	0.4	4,125,562	4,043,973	-2.0
December	352,746			4,478,308		
	(1,000 gallons)	(1,000 gallons)	(percent)	(1,000 gallons)	(1,000 gallons)	(percent)
Frozen yogurt, total						
January	5,299	4,617	-12.9	5,299	4,617	-12.9
February	5,424	4,624	-14.7	10,723	9,241	-13.8
March	6,912	6,583	-4.8	17,635	15,824	-10.3
April	6,391	5,646	-11.7	24,026	21,470	-10.6
May	5,771	5,303	-8.1	29,797	26,773	-10.1
June	5,609	5,529	-1.4	35,406	32,302	-8.8
July	5,192	4,937	-4.9	40,598	37,239	-8.3
August	5,653	4,567	-19.2	46,251	41,806	-9.6
September	4,557	4,403	-3.4	50,808	46,209	-9.1
October	4,152	4,074	-1.9	54,960	50,283	-8.5
November	4,070	3,889	-4.4	59,030	54,172	-8.2
December	3,514			62,544		

- 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:
November 2017 and 2018**

State	November 2017	October 2018	November 2018	Change from	
				November 2017	October 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	211,090	214,685	216,314	2.5	0.8
Idaho	76,881	91,442	77,031	0.2	-15.8
Illinois	6,995	6,119	7,171	2.5	17.2
Iowa	21,045	23,974	24,472	16.3	2.1
Minnesota	58,382	61,834	63,044	8.0	2.0
New Jersey	4,362	4,951	4,332	-0.7	-12.5
New Mexico	64,483	78,860	78,479	21.7	-0.5
Ohio	19,354	20,980	19,294	-0.3	-8.0
Oregon	17,456	18,796	18,024	3.3	-4.1
Pennsylvania	36,152	40,429	36,024	-0.4	-10.9
South Dakota	23,514	24,252	24,543	4.4	1.2
Vermont	12,096	11,956	12,303	1.7	2.9
Wisconsin	281,195	300,223	277,656	-1.3	-7.5
Other States ¹	237,663	231,390	222,952	-6.2	-3.6
United States	1,070,668	1,129,891	1,081,639	1.0	-4.3
Atlantic	140,049	143,994	135,467	-3.3	-5.9
Central	492,554	509,876	485,286	-1.5	-4.8
West	438,065	476,021	460,886	5.2	-3.2

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

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

State	November 2017	October 2018	November 2018	Change from	
				November 2017	October 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	50,623	53,699	52,146	3.0	-2.9
Idaho	52,012	54,116	48,261	-7.2	-10.8
Iowa	11,390	14,697	17,314	52.0	17.8
Oregon	17,367	18,693	17,930	3.2	-4.1
Wisconsin	84,027	87,035	80,900	-3.7	-7.0
Other States ¹	198,295	209,947	206,248	4.0	-1.8
United States	413,714	438,187	422,799	2.2	-3.5
Atlantic	27,136	27,594	27,794	2.4	0.7
Central	211,721	212,171	207,687	-1.9	-2.1
West	174,857	198,422	187,318	7.1	-5.6

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

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

State	November 2017	October 2018	November 2018	Change from	
				November 2017	October 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	26,672	29,413	29,485	10.5	0.2
Idaho	40,099	38,986	36,528	-8.9	-6.3
Iowa	6,025	8,571	10,007	66.1	16.8
Minnesota	45,721	48,240	50,901	11.3	5.5
Oregon	14,935	15,984	14,312	-4.2	-10.5
Vermont	8,452	8,408	8,486	0.4	0.9
Wisconsin	57,015	59,571	56,200	-1.4	-5.7
Other States ¹	97,679	98,337	98,588	0.9	0.3
United States	296,598	307,510	304,507	2.7	-1.0
Atlantic	25,833	26,194	26,371	2.1	0.7
Central	149,806	145,197	146,240	-2.4	0.7
West	120,959	136,119	131,896	9.0	-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: November 2017 and 2018

State	November 2017	October 2018	November 2018	Change from	
				November 2017	October 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	136,884	134,036	139,873	2.2	4.4
Idaho	18,399	29,324	22,104	20.1	-24.6
Pennsylvania	21,505	22,292	21,377	-0.6	-4.1
Wisconsin	140,662	150,347	139,393	-0.9	-7.3
Other States ¹	139,371	138,765	141,558	1.6	2.0
United States	456,821	474,764	464,305	1.6	-2.2
Atlantic	60,493	60,026	60,559	0.1	0.9
Central	184,737	194,789	182,642	-1.1	-6.2
West	211,591	219,949	221,104	4.5	0.5

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

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

State	November 2017	October 2018	November 2018	Change from	
				November 2017	October 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	125,114	123,147	129,090	3.2	4.8
Idaho	17,383	28,539	21,459	23.4	-24.8
Pennsylvania	18,737	19,074	18,378	-1.9	-3.6
Wisconsin	90,445	99,690	90,200	-0.3	-9.5
Other States ¹	99,832	102,882	104,045	4.2	1.1
United States	351,511	373,332	363,172	3.3	-2.7
Atlantic	37,831	36,674	37,746	-0.2	2.9
Central	116,844	129,592	118,062	1.0	-8.9
West	196,836	207,066	207,364	5.3	0.1

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

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

State	November 2017	October 2018	November 2018	Change from	
				November 2017	October 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	42,079	40,972	41,258	-2.0	0.7
Pennsylvania	7,279	6,483	6,127	-15.8	-5.5
Other States ¹	100,363	96,025	98,252	-2.1	2.3
United States	149,721	143,480	145,637	-2.7	1.5
Atlantic	14,940	13,651	13,035	-12.8	-4.5
Central	65,351	59,068	63,262	-3.2	7.1
West	69,430	70,761	69,340	-0.1	-2.0

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: November 2017 and 2018

State	November 2017	October 2018	November 2018	Change from	
				November 2017	October 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	41,963	49,322	44,914	7.0	-8.9
Pennsylvania	14,056	10,706	12,205	-13.2	14.0
Other States ¹	85,421	65,039	73,374	-14.1	12.8
United States	141,440	125,067	130,493	-7.7	4.3
Atlantic	26,957	22,563	24,767	-8.1	9.8
Central	29,545	18,532	24,227	-18.0	30.7
West	84,938	83,972	81,499	-4.0	-2.9

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: November 2017 and 2018

State	November 2017	October 2018	November 2018	Change from	
				November 2017	October 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Wisconsin	27,446	24,097	22,588	-17.7	-6.3
Other States ¹	52,361	61,225	50,395	-3.8	-17.7
United States	79,807	85,322	72,983	-8.6	-14.5
Atlantic	20,238	20,621	20,623	1.9	-
Central	39,459	33,678	31,610	-19.9	-6.1
West	20,110	31,023	20,750	3.2	-33.1

- Represents zero.

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: November 2017 and 2018

State	November 2017	October 2018	November 2018	Change from	
				November 2017	October 2018
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
California	5,238	5,367	4,468	-14.7	-16.8
Connecticut	861	1,216	974	13.1	-19.9
Missouri	1,631	2,465	2,279	39.7	-7.5
Ohio	1,934	2,247	2,005	3.7	-10.8
Oregon	778	1,091	984	26.5	-9.8
Pennsylvania	3,847	3,353	3,830	-0.4	14.2
Tennessee	1,785	1,905	1,648	-7.7	-13.5
Utah	1,701	2,316	2,130	25.2	-8.0
Other States ¹	31,843	39,796	33,603	5.5	-15.6
United States	49,618	59,756	51,921	4.6	-13.1
Atlantic	12,541	14,815	13,072	4.2	-11.8
Central	27,447	33,966	29,268	6.6	-13.8
West	9,630	10,975	9,581	-0.5	-12.7

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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Mike Miller – Milk Production and Milk Cows	(202) 720-3278
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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.

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