



Dairy Products

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September 2018 Highlights

Total cheese output (excluding cottage cheese) was 1.06 billion pounds, 3.1 percent above September 2017 but 2.0 percent below August 2018.

Italian type cheese production totaled 451 million pounds, 4.3 percent above September 2017 but 1.1 percent below August 2018.

American type cheese production totaled 419 million pounds, 3.9 percent above September 2017 but 1.7 percent below August 2018.

Butter production was 134 million pounds, 0.1 percent below September 2017 but 0.3 percent above August 2018.

Dry milk products (comparisons in percentage with September 2017)

Nonfat dry milk, human - 106 million pounds, down 21.0 percent.

Skim milk powder - 48.7 million pounds, up 67.3 percent.

Whey products (comparisons in percentage with September 2017)

Dry whey, total - 71.3 million pounds, down 21.9 percent.

Lactose, human and animal - 87.9 million pounds, down 7.4 percent.

Whey protein concentrate, total - 42.2 million pounds, up 9.1 percent.

Frozen products (comparisons in percentage with September 2017)

Ice cream, regular (hard) - 58.0 million gallons, down 4.3 percent.

Ice cream, lowfat (total) - 34.6 million gallons, down 1.7 percent.

Sherbet (hard) - 3.07 million gallons, down 6.4 percent.

Frozen yogurt (total) - 4.41 million gallons, down 3.2 percent.

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

Product	September 2017	August 2018	September 2018	Change from	
				September 2017	August 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Butter	134,552	133,982	134,351	-0.1	0.3
Cheese					
American types ¹	403,544	426,427	419,364	3.9	-1.7
Cheddar	291,755	303,563	292,977	0.4	-3.5
Other American types	111,789	122,864	126,387	13.1	2.9
Blue and Gorgonzola	6,904	7,902	7,908	14.5	0.1
Brick and Muenster	14,803	16,037	15,573	5.2	-2.9
Cream and Neufchatel	87,356	82,992	80,257	-8.1	-3.3
Feta	10,140	11,173	9,842	-2.9	-11.9
Gouda	4,679	7,364	5,247	12.1	-28.7
Hispanic	22,449	26,550	26,030	16.0	-2.0
Italian types	432,619	455,993	451,193	4.3	-1.1
Mozzarella	332,180	358,177	357,088	7.5	-0.3
Parmesan	34,642	30,669	29,058	-16.1	-5.3
Provolone	33,734	35,589	33,388	-1.0	-6.2
Ricotta	21,210	21,063	21,013	-0.9	-0.2
Romano	4,106	4,324	3,935	-4.2	-9.0
Other Italian types	6,747	6,171	6,711	-0.5	8.8
Swiss	25,622	28,069	26,811	4.6	-4.5
All other types	16,641	15,897	14,462	-13.1	-9.0
Total cheese ²	1,024,757	1,078,404	1,056,687	3.1	-2.0
Cottage cheese, curd ³	30,999	35,081	32,244	4.0	-8.1
Cottage cheese, cream ⁴	27,146	31,415	28,611	5.4	-8.9
Cottage cheese, lowfat ⁵	27,396	31,958	26,952	-1.6	-15.7
Sour cream	108,314	118,830	107,599	-0.7	-9.5
Yogurt, plain and flavored	393,654	397,456	371,418	-5.6	-6.6
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
Frozen products					
Ice cream, regular, hard	60,596	71,559	57,964	-4.3	-19.0
Ice cream, lowfat, hard	15,565	20,731	18,174	16.8	-12.3
Ice cream, lowfat, soft	19,661	22,239	16,454	-16.3	-26.0
Ice cream, lowfat, total ⁶	35,226	42,970	34,628	-1.7	-19.4
Ice cream, nonfat, hard	603	612	589	-2.3	-3.8
Sherbet, hard	3,282	3,467	3,073	-6.4	-11.4
Frozen yogurt, total	4,557	4,567	4,413	-3.2	-3.4
Regular and lowfat, hard	1,424	1,395	1,214	-14.7	-13.0
Nonfat, hard	515	335	581	12.8	73.4
Other frozen dairy products	2,135	2,138	2,075	-2.8	-2.9
Water and juice ices	4,672	6,379	5,041	7.9	-21.0
Mix for frozen products					
Ice cream, regular, mix	36,103	43,108	35,017	-3.0	-18.8
Ice cream, lowfat, mix ⁷	18,404	24,228	19,418	5.5	-19.9
Ice cream, nonfat, mix	492	481	423	-14.0	-12.1
Sherbet mix	2,284	2,358	1,948	-14.7	-17.4
Yogurt mix	2,533	2,529	2,295	-9.4	-9.3

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:
September 2017 and 2018**

Product	September 2017	August 2018	September 2018	Change from	
				September 2017	August 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Condensed whey, solids content ¹					
Sweet-type, human	8,563	6,184	6,155	-28.1	-0.5
Dry whey products					
Dry whey, human	89,568	77,654	70,095	-21.7	-9.7
Dry whey, animal	1,734	1,300	1,234	-28.8	-5.1
Dry whey, total	91,302	78,954	71,329	-21.9	-9.7
Reduced lactose and minerals					
Human	2,765	1,435	1,734	-37.3	20.8
Animal	2,471	2,776	2,698	9.2	-2.8
Whey protein concentrate					
Human ²	38,472	41,236	41,277	7.3	0.1
Animal ²	248	531	965	289.1	81.7
Total ²	38,720	41,767	42,242	9.1	1.1
25.0-49.9 percent ³	14,325	16,512	15,757	10.0	-4.6
50.0-89.9 percent ³	24,395	25,255	26,485	8.6	4.9
Whey protein isolates ⁴	9,442	8,907	9,348	-1.0	5.0
Lactose, human and animal	94,903	94,380	87,920	-7.4	-6.8
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	106,317	71,055	67,466	-36.5	-5.1
Dry whey, animal	1,526	2,214	1,944	27.4	-12.2
Dry whey, total	107,843	73,269	69,410	-35.6	-5.3
Reduced Lactose and minerals					
Human and animal ⁶	7,143	4,275	4,116	-42.4	-3.7
Whey protein concentrate					
Human ²	71,308	60,373	57,727	-19.0	-4.4
Animal ²	403	939	918	127.8	-2.2
Total ²	71,711	61,312	58,645	-18.2	-4.3
25.0-49.9 percent ³	23,106	19,318	17,479	-24.4	-9.5
50.0-89.9 percent ³	48,605	41,994	41,166	-15.3	-2.0
Whey protein isolates ⁴	26,760	31,635	25,400	-5.1	-19.7
Lactose, human and animal	153,059	88,956	84,436	-44.8	-5.1
	(cents per pound)	(cents per pound)	(cents per pound)	(cents change)	(cents change)
Manufacturers' selling price ⁷					
Dry whey, animal	24.3	17.4	19.1	-5.2	1.8

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:
September 2017 and 2018**

Product	September 2017	August 2018	September 2018	Change from	
				September 2017	August 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Production					
Bulk condensed milk					
Skim, unsweetened	121,072	141,183	124,184	2.6	-12.0
Dry milk products					
Dry buttermilk, total	8,300	7,563	7,859	-5.3	3.9
Dry skim milk, animal	904	1,285	908	0.4	-29.3
Dry whole milk	10,569	9,603	5,870	-44.5	-38.9
Milk protein concentrate, total ¹	6,242	9,354	10,073	61.4	7.7
Nonfat dry milk, human	134,572	122,805	106,309	-21.0	-13.4
Skim milk powder, total ²	29,102	47,560	48,688	67.3	2.4
Manufacturers' stocks end-of-month ³					
Dry milk products					
Dry buttermilk, total	16,646	12,088	12,194	-26.7	0.9
Dry skim milk, animal	4,275	2,037	3,606	-15.6	77.0
Dry whole milk	20,608	42,387	32,549	57.9	-23.2
Nonfat dry milk, human	320,765	281,110	262,137	-18.3	-6.7
Manufacturers' shipments ⁴					
Dry milk products					
Nonfat dry milk, human	141,297	151,917	117,441	-16.9	-22.7

¹ Dry milk protein concentrate, 40-89.9 percent.

² Includes protein standardized and blends.

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

⁴ For dry products, shipments of bulk goods.

Dairy Products Production by Product and Month – United States: 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	1,056,687	3.1	9,396,068	9,629,310	2.5
October	1,086,865			10,482,933		
November	1,070,668			11,553,601		
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	419,364	3.9	3,783,818	3,877,624	2.5
October	430,485			4,214,303		
November	413,714			4,628,017		
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	292,977	0.4	2,789,841	2,807,447	0.6
October	307,833			3,097,674		
November	296,598			3,394,272		
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	451,193	4.3	4,002,647	4,115,065	2.8
October	454,641			4,457,288		
November	456,821			4,914,109		
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	357,088	7.5	3,096,091	3,213,330	3.8
October	347,688			3,443,779		
November	351,511			3,795,290		
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	6,711	-0.5	59,379	55,488	-6.6
October	6,271			65,650		
November	7,247			72,897		
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	134,351	-0.1	1,381,976	1,423,090	3.0
October	144,671			1,526,647		
November	149,721			1,676,368		
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	106,309	-21.0	1,384,690	1,340,901	-3.2
October	145,008			1,529,698		
November	141,440			1,671,138		
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	48,688	67.3	412,164	427,968	3.8
October	25,965			438,129		
November	41,609			479,738		
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	71,329	-21.9	788,473	771,922	-2.1
October	80,750			869,223		
November	81,657			950,880		
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	87,920	-7.4	847,703	838,473	-1.1
October	93,098			940,801		
November	86,105			1,026,906		
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	42,242	9.1	361,015	374,249	3.7
October	40,796			401,811		
November	40,551			442,362		
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	28,611	5.4	249,523	267,863	7.4
October	28,829			278,352		
November	26,066			304,418		
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	26,952	-1.6	264,004	263,788	-0.1
October	29,205			293,209		
November	26,060			319,269		
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	107,599	-0.7	1,010,002	1,015,985	0.6
October	126,023			1,136,025		
November	129,312			1,265,337		
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	57,964	-4.3	609,908	576,425	-5.5
October	56,616			666,524		
November	49,618			716,142		
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	34,628	-1.7	368,750	359,205	-2.6
October	34,566			403,316		
November	27,946			431,262		
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	3,073	-6.4	31,557	29,530	-6.4
October	2,542			34,099		
November	2,352			36,451		
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	371,418	-5.6	3,439,440	3,357,122	-2.4
October	368,558			3,807,998		
November	317,564			4,125,562		
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	4,413	-3.2	50,808	46,219	-9.0
October	4,152			54,960		
November	4,070			59,030		
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:
September 2017 and 2018**

State	September 2017	August 2018	September 2018	Change from	
				September 2017	August 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	193,982	211,218	205,470	5.9	-2.7
Idaho	80,508	76,776	84,853	5.4	10.5
Illinois	7,704	6,942	6,822	-11.4	-1.7
Iowa	18,778	25,373	24,718	31.6	-2.6
Minnesota	55,799	61,253	59,065	5.9	-3.6
New Jersey	5,188	4,587	5,092	-1.9	11.0
New Mexico	60,494	75,321	71,956	18.9	-4.5
Ohio	18,009	21,490	20,786	15.4	-3.3
Oregon	16,873	17,344	17,143	1.6	-1.2
Pennsylvania	33,351	36,701	34,218	2.6	-6.8
South Dakota	23,925	24,241	23,609	-1.3	-2.6
Vermont	11,999	11,263	12,257	2.2	8.8
Wisconsin	275,129	282,728	280,543	2.0	-0.8
Other States ¹	223,018	223,167	210,155	-5.8	-5.8
United States	1,024,757	1,078,404	1,056,687	3.1	-2.0
Atlantic	135,896	136,005	126,950	-6.6	-6.7
Central	474,015	494,132	483,667	2.0	-2.1
West	414,846	448,267	446,070	7.5	-0.5

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

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

State	September 2017	August 2018	September 2018	Change from	
				September 2017	August 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	49,154	51,588	51,381	4.5	-0.4
Idaho	47,294	51,660	51,074	8.0	-1.1
Iowa	11,920	14,626	15,376	29.0	5.1
Oregon	16,793	17,224	17,040	1.5	-1.1
Wisconsin	78,675	82,551	79,900	1.6	-3.2
Other States ¹	199,708	208,778	204,593	2.4	-2.0
United States	403,544	426,427	419,364	3.9	-1.7
Atlantic	26,409	27,484	26,700	1.1	-2.9
Central	203,685	208,897	204,173	0.2	-2.3
West	173,450	190,046	188,491	8.7	-0.8

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

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

State	September 2017	August 2018	September 2018	Change from	
				September 2017	August 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	29,716	25,563	25,148	-15.4	-1.6
Idaho	38,283	39,933	38,893	1.6	-2.6
Iowa	7,220	9,240	9,328	29.2	1.0
Minnesota	44,319	51,068	48,898	10.3	-4.2
Oregon	13,197	14,435	13,303	0.8	-7.8
Vermont	8,312	8,140	8,249	-0.8	1.3
Wisconsin	52,711	55,171	53,700	1.9	-2.7
Other States ¹	97,997	100,013	95,458	-2.6	-4.6
United States	291,755	303,563	292,977	0.4	-3.5
Atlantic	25,015	26,355	25,211	0.8	-4.3
Central	143,340	148,786	142,485	-0.6	-4.2
West	123,400	128,422	125,281	1.5	-2.4

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: September 2017 and 2018

State	September 2017	August 2018	September 2018	Change from	
				September 2017	August 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	123,776	137,006	132,845	7.3	-3.0
Idaho	26,549	19,824	27,732	4.5	39.9
Pennsylvania	19,646	22,230	21,449	9.2	-3.5
Wisconsin	141,752	144,684	143,698	1.4	-0.7
Other States ¹	120,896	132,249	125,469	3.8	-5.1
United States	432,619	455,993	451,193	4.3	-1.1
Atlantic	54,300	59,231	55,446	2.1	-6.4
Central	180,161	186,229	183,886	2.1	-1.3
West	198,158	210,533	211,861	6.9	0.6

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

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

State	September 2017	August 2018	September 2018	Change from	
				September 2017	August 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	112,837	125,746	122,917	8.9	-2.2
Idaho	25,404	19,290	27,002	6.3	40.0
Pennsylvania	16,816	19,003	18,433	9.6	-3.0
Wisconsin	92,243	96,105	94,200	2.1	-2.0
Other States ¹	84,880	98,033	94,536	11.4	-3.6
United States	332,180	358,177	357,088	7.5	-0.3
Atlantic	33,133	37,632	34,952	5.5	-7.1
Central	114,652	123,579	121,862	6.3	-1.4
West	184,395	196,966	200,274	8.6	1.7

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

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

State	September 2017	August 2018	September 2018	Change from	
				September 2017	August 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	36,099	41,451	43,667	21.0	5.3
Pennsylvania	6,370	5,528	4,589	-28.0	-17.0
Other States ¹	92,083	87,003	86,095	-6.5	-1.0
United States	134,552	133,982	134,351	-0.1	0.3
Atlantic	12,739	11,745	10,381	-18.5	-11.6
Central	59,671	54,271	53,494	-10.4	-1.4
West	62,142	67,966	70,476	13.4	3.7

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: September 2017 and 2018

State	September 2017	August 2018	September 2018	Change from	
				September 2017	August 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	37,040	29,706	32,055	-13.5	7.9
Pennsylvania	13,034	13,015	9,515	-27.0	-26.9
Other States ¹	84,498	80,084	64,739	-23.4	-19.2
United States	134,572	122,805	106,309	-21.0	-13.4
Atlantic	23,155	28,273	19,203	-17.1	-32.1
Central	26,386	25,267	18,969	-28.1	-24.9
West	85,031	69,265	68,137	-19.9	-1.6

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: September 2017 and 2018

State	September 2017	August 2018	September 2018	Change from	
				September 2017	August 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Wisconsin	29,436	25,191	24,231	-17.7	-3.8
Other States ¹	60,132	52,463	45,864	-23.7	-12.6
United States	89,568	77,654	70,095	-21.7	-9.7
Atlantic	20,644	21,829	20,399	-1.2	-6.6
Central	39,969	34,927	33,377	-16.5	-4.4
West	28,955	20,898	16,319	-43.6	-21.9

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: September 2017 and 2018

State	September 2017	August 2018	September 2018	Change from	
				September 2017	August 2018
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
California	8,259	7,263	4,908	-40.6	-32.4
Connecticut	791	1,182	948	19.8	-19.8
Missouri	2,262	3,294	3,088	36.5	-6.3
Ohio	1,941	2,819	2,092	7.8	-25.8
Oregon	944	1,262	1,090	15.5	-13.6
Pennsylvania	3,344	3,556	1,693	-49.4	-52.4
Tennessee	1,966	2,313	1,674	-14.9	-27.6
Utah	1,972	2,736	2,242	13.7	-18.1
Other States ¹	39,117	47,134	40,229	2.8	-14.6
United States	60,596	71,559	57,964	-4.3	-19.0
Atlantic	13,474	16,655	13,012	-3.4	-21.9
Central	33,980	41,542	34,604	1.8	-16.7
West	13,142	13,362	10,348	-21.3	-22.6

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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- 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.

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