



Dairy Products

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August 2018 Highlights

Total cheese output (excluding cottage cheese) was 1.08 billion pounds, 2.8 percent above August 2017 but 0.7 percent below July 2018.

Italian type cheese production totaled 454 million pounds, 3.9 percent above August 2017 but 2.1 percent below July 2018.

American type cheese production totaled 425 million pounds, 2.7 percent above August 2017 but 3.5 percent below July 2018.

Butter production was 134 million pounds, 2.1 percent above August 2017 but 0.5 percent below July 2018.

Dry milk products (comparisons in percentage with August 2017)

Nonfat dry milk, human - 123 million pounds, down 10.1 percent.

Skim milk powder - 47.6 million pounds, up 6.3 percent.

Whey products (comparisons in percentage with August 2017)

Dry whey, total - 79.7 million pounds, down 15.4 percent.

Lactose, human and animal - 94.7 million pounds, down 2.0 percent.

Whey protein concentrate, total - 41.2 million pounds, up 7.4 percent.

Frozen products (comparisons in percentage with August 2017)

Ice cream, regular (hard) - 71.5 million gallons, down 2.8 percent.

Ice cream, lowfat (total) - 42.7 million gallons, down 1.6 percent.

Sherbet (hard) - 3.52 million gallons, down 4.9 percent.

Frozen yogurt (total) - 5.32 million gallons, down 5.9 percent.

Contents

Dairy Products Production by Product – United States: August 2017 and 2018	3
Whey and Modified Whey Products Production, Stocks, and Prices – United States: August 2017 and 2018.....	4
Condensed and Dry Milk Products Production, Stocks, and Shipments – United States: August 2017 and 2018	5
Dairy Products Production by Product and Month – United States: 2017 and 2018	6
Total Cheese Production Excluding Cottage Cheese – States and United States: August 2017 and 2018	13
American Cheese Production – States and United States: August 2017 and 2018	14
Cheddar Cheese Production – States and United States: August 2017 and 2018	14
Total Italian Cheese Production – States and United States: August 2017 and 2018	15
Mozzarella Cheese Production – States and United States: August 2017 and 2018.....	15
Butter Production – States and United States: August 2017 and 2018	16
Nonfat Dry Milk (Human) Production – States and United States: August 2017 and 2018.....	16
Dry Whey (Human) Production – States and United States: August 2017 and 2018	17
Ice Cream, Regular (Hard) Production – States and United States: August 2017 and 2018.....	17
Dairy Products Regions.....	18
Statistical Methodology.....	19
Information Contacts.....	20

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

Product	August 2017	July 2018	August 2018	Change from	
				August 2017	July 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Butter	131,152	134,561	133,870	2.1	-0.5
Cheese					
American types ¹	414,280	440,653	425,419	2.7	-3.5
Cheddar	298,306	326,370	304,409	2.0	-6.7
Other American types	115,974	114,283	121,010	4.3	5.9
Blue and Gorgonzola	7,838	7,697	7,896	0.7	2.6
Brick and Muenster	16,632	17,196	16,041	-3.6	-6.7
Cream and Neufchatel	87,729	69,292	83,097	-5.3	19.9
Feta	10,915	12,635	12,193	11.7	-3.5
Gouda	5,074	6,780	7,354	44.9	8.5
Hispanic	24,587	24,337	26,622	8.3	9.4
Italian types	437,003	463,547	453,979	3.9	-2.1
Mozzarella	335,867	367,215	356,222	6.1	-3.0
Parmesan	36,611	32,885	30,715	-16.1	-6.6
Provolone	34,524	34,710	35,271	2.2	1.6
Ricotta	19,960	17,505	21,065	5.5	20.3
Romano	4,407	5,191	4,436	0.7	-14.5
Other Italian types	5,634	6,041	6,270	11.3	3.8
Swiss	25,646	28,174	27,083	5.6	-3.9
All other types	16,337	12,461	15,839	-3.0	27.1
Total cheese ²	1,046,041	1,082,772	1,075,523	2.8	-0.7
Cottage cheese, curd ³	35,563	33,967	35,057	-1.4	3.2
Cottage cheese, cream ⁴	30,434	30,126	31,337	3.0	4.0
Cottage cheese, lowfat ⁵	31,370	29,329	32,249	2.8	10.0
Sour cream	118,709	110,077	119,914	1.0	8.9
Yogurt, plain and flavored	396,182	358,204	395,171	-0.3	10.3
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
Frozen products					
Ice cream, regular, hard	73,596	70,443	71,513	-2.8	1.5
Ice cream, lowfat, hard	19,237	19,931	21,288	10.7	6.8
Ice cream, lowfat, soft	24,107	23,504	21,369	-11.4	-9.1
Ice cream, lowfat, total ⁶	43,344	43,435	42,657	-1.6	-1.8
Ice cream, nonfat, hard	652	595	618	-5.2	3.9
Sherbet, hard	3,697	3,151	3,515	-4.9	11.6
Frozen yogurt, total	5,653	4,937	5,317	-5.9	7.7
Regular and lowfat, hard	1,825	1,707	1,776	-2.7	4.0
Nonfat, hard	622	393	335	-46.1	-14.8
Other frozen dairy products	2,188	2,668	2,175	-0.6	-18.5
Water and juice ices	6,693	7,057	6,380	-4.7	-9.6
Mix for frozen products					
Ice cream, regular, mix	45,385	43,127	43,194	-4.8	0.2
Ice cream, lowfat, mix ⁷	23,894	24,564	24,000	0.4	-2.3
Ice cream, nonfat, mix	544	377	361	-33.6	-4.2
Sherbet mix	2,516	2,070	2,381	-5.4	15.0
Yogurt mix	3,105	2,176	2,501	-19.5	14.9

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:
August 2017 and 2018**

Product	August 2017	July 2018	August 2018	Change from	
				August 2017	July 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Condensed whey, solids content ¹					
Sweet-type, human	8,943	5,719	6,170	-31.0	7.9
Dry whey products					
Dry whey, human	93,138	90,309	78,235	-16.0	-13.4
Dry whey, animal	1,138	2,286	1,506	32.3	-34.1
Dry whey, total	94,276	92,595	79,741	-15.4	-13.9
Reduced lactose and minerals					
Human	1,962	1,337	1,435	-26.9	7.3
Animal	2,539	3,288	2,794	10.0	-15.0
Whey protein concentrate					
Human ²	37,574	39,432	40,928	8.9	3.8
Animal ²	765	366	263	-65.6	-28.1
Total ²	38,339	39,798	41,191	7.4	3.5
25.0-49.9 percent ³	13,468	16,005	16,574	23.1	3.6
50.0-89.9 percent ³	24,871	23,793	24,617	-1.0	3.5
Whey protein isolates ⁴	9,691	10,058	9,325	-3.8	-7.3
Lactose, human and animal	96,679	97,044	94,731	-2.0	-2.4
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	98,055	75,064	70,697	-27.9	-5.8
Dry whey, animal	1,456	2,385	2,278	56.5	-4.5
Dry whey, total	99,511	77,449	72,975	-26.7	-5.8
Reduced Lactose and minerals					
Human and animal ⁶	7,119	4,255	4,255	-40.2	-
Whey protein concentrate					
Human ²	70,127	59,450	60,496	-13.7	1.8
Animal ²	1,300	1,838	520	-60.0	-71.7
Total ²	71,427	61,288	61,016	-14.6	-0.4
25.0-49.9 percent ³	22,915	17,681	19,229	-16.1	8.8
50.0-89.9 percent ³	48,512	43,607	41,787	-13.9	-4.2
Whey protein isolates ⁴	26,937	26,277	31,173	15.7	18.6
Lactose, human and animal	160,671	90,325	113,537	-29.3	25.7
	(cents per pound)	(cents per pound)	(cents per pound)	(cents change)	(cents change)
Manufacturers' selling price ⁷					
Dry whey, animal	28.3	20.1	17.4	-10.9	-2.7

- Represents zero.

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:
August 2017 and 2018**

Product	August 2017	July 2018	August 2018	Change from	
				August 2017	July 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Production					
Bulk condensed milk					
Skim, unsweetened	132,027	144,509	139,256	5.5	-3.6
Dry milk products					
Dry buttermilk, total	7,510	7,803	7,563	0.7	-3.1
Dry skim milk, animal	965	1,285	1,320	36.8	2.7
Dry whole milk	8,886	8,349	6,858	-22.8	-17.9
Milk protein concentrate, total ¹	8,274	9,282	9,314	12.6	0.3
Nonfat dry milk, human	136,753	144,296	122,895	-10.1	-14.8
Skim milk powder, total ²	44,813	47,488	47,614	6.3	0.3
Manufacturers' stocks end-of-month ³					
Dry milk products					
Dry buttermilk, total	13,998	13,750	12,088	-13.6	-12.1
Dry skim milk, animal	4,097	2,093	2,056	-49.8	-1.8
Dry whole milk	15,948	51,876	42,561	166.9	-18.0
Nonfat dry milk, human	312,929	317,520	275,365	-12.0	-13.3
Manufacturers' shipments ⁴					
Dry milk products					
Nonfat dry milk, human	135,492	120,929	153,674	13.4	27.1

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	1,075,523	2.8	8,371,311	8,569,742	2.4
September	1,024,757			9,396,068		
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	425,419	2.7	3,380,274	3,457,252	2.3
September	403,544			3,783,818		
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	304,409	2.0	2,498,086	2,515,316	0.7
September	291,755			2,789,841		
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	453,979	3.9	3,570,028	3,661,858	2.6
September	432,619			4,002,647		
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	356,222	6.1	2,763,911	2,854,287	3.3
September	332,180			3,096,091		
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	6,270	11.3	52,632	48,876	-7.1
September	6,747			59,379		
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	133,870	2.1	1,247,424	1,288,627	3.3
September	134,552			1,381,976		
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	122,895	-10.1	1,250,118	1,234,682	-1.2
September	134,572			1,384,690		
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	47,614	6.3	383,062	379,334	-1.0
September	29,102			412,164		
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	79,741	-15.4	697,171	701,380	0.6
September	91,302			788,473		
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	94,731	-2.0	752,800	750,904	-0.3
September	94,903			847,703		
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	41,191	7.4	322,295	331,431	2.8
September	38,720			361,015		
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	31,337	3.0	222,377	239,174	7.6
September	27,146			249,523		
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	32,249	2.8	236,608	237,127	0.2
September	27,396			264,004		
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	119,914	1.0	901,688	909,470	0.9
September	108,314			1,010,002		
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	71,513	-2.8	549,312	518,415	-5.6
September	60,596			609,908		
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	42,657	-1.6	333,524	324,264	-2.8
September	35,226			368,750		
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	3,515	-4.9	28,275	26,505	-6.3
September	3,282			31,557		
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	395,171	-0.3	3,045,786	2,983,419	-2.0
September	393,654			3,439,440		
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	5,317	-5.9	46,251	42,556	-8.0
September	4,557			50,808		
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: August 2017 and 2018

State	August 2017	July 2018	August 2018	Change from	
				August 2017	July 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	208,681	211,162	209,410	0.3	-0.8
Idaho	71,965	85,641	76,776	6.7	-10.4
Illinois	6,591	7,019	6,819	3.5	-2.8
Iowa	21,354	25,371	25,979	21.7	2.4
Minnesota	58,706	60,888	60,065	2.3	-1.4
New Jersey	4,840	4,524	4,587	-5.2	1.4
New Mexico	58,672	75,475	75,321	28.4	-0.2
Ohio	18,205	19,501	20,487	12.5	5.1
Oregon	16,823	17,218	17,344	3.1	0.7
Pennsylvania	34,391	34,426	36,701	6.7	6.6
South Dakota	24,142	22,581	24,730	2.4	9.5
Vermont	12,062	11,597	11,689	-3.1	0.8
Wisconsin	281,628	284,818	283,080	0.5	-0.6
Other States ¹	227,981	222,551	222,535	-2.4	-
United States	1,046,041	1,082,772	1,075,523	2.8	-0.7
Atlantic	137,590	128,723	136,428	-0.8	6.0
Central	486,472	494,639	493,265	1.4	-0.3
West	421,979	459,410	445,830	5.7	-3.0

- Represents zero.

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

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

State	August 2017	July 2018	August 2018	Change from	
				August 2017	July 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	54,571	52,919	51,593	-5.5	-2.5
Idaho	46,495	54,107	51,660	11.1	-4.5
Iowa	12,963	15,880	15,336	18.3	-3.4
Oregon	16,715	17,147	17,224	3.0	0.4
Wisconsin	82,207	84,941	82,500	0.4	-2.9
Other States ¹	201,329	215,659	207,106	2.9	-4.0
United States	414,280	440,653	425,419	2.7	-3.5
Atlantic	26,577	26,519	27,517	3.5	3.8
Central	209,667	220,952	209,159	-0.2	-5.3
West	178,036	193,182	188,743	6.0	-2.3

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

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

State	August 2017	July 2018	August 2018	Change from	
				August 2017	July 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	30,881	26,771	25,568	-17.2	-4.5
Idaho	34,834	43,299	39,933	14.6	-7.8
Iowa	7,225	11,673	10,917	51.1	-6.5
Minnesota	45,987	51,274	50,078	8.9	-2.3
Oregon	13,755	14,449	14,435	4.9	-0.1
Vermont	8,395	8,187	8,174	-2.6	-0.2
Wisconsin	54,953	58,761	55,300	0.6	-5.9
Other States ¹	102,276	111,956	100,004	-2.2	-10.7
United States	298,306	326,370	304,409	2.0	-6.7
Atlantic	25,306	25,343	26,388	4.3	4.1
Central	148,625	164,434	150,527	1.3	-8.5
West	124,375	136,593	127,494	2.5	-6.7

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: August 2017 and 2018

State	August 2017	July 2018	August 2018	Change from	
				August 2017	July 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	131,173	137,552	135,211	3.1	-1.7
Idaho	18,408	24,741	19,824	7.7	-19.9
Pennsylvania	19,964	21,946	22,230	11.4	1.3
Wisconsin	144,338	145,994	144,080	-0.2	-1.3
Other States ¹	123,120	133,314	132,634	7.7	-0.5
United States	437,003	463,547	453,979	3.9	-2.1
Atlantic	55,590	58,175	59,231	6.5	1.8
Central	184,591	185,944	185,335	0.4	-0.3
West	196,822	219,428	209,413	6.4	-4.6

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

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

State	August 2017	July 2018	August 2018	Change from	
				August 2017	July 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	120,535	123,506	124,227	3.1	0.6
Idaho	17,337	23,875	19,290	11.3	-19.2
Pennsylvania	16,946	19,051	19,003	12.1	-0.3
Wisconsin	94,780	98,999	95,500	0.8	-3.5
Other States ¹	86,269	101,784	98,202	13.8	-3.5
United States	335,867	367,215	356,222	6.1	-3.0
Atlantic	35,294	38,737	37,632	6.6	-2.9
Central	117,095	125,457	122,466	4.6	-2.4
West	183,478	203,021	196,124	6.9	-3.4

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

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

State	August 2017	July 2018	August 2018	Change from	
				August 2017	July 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	38,671	42,726	41,451	7.2	-3.0
Pennsylvania	4,296	6,902	5,528	28.7	-19.9
Other States ¹	88,185	84,933	86,891	-1.5	2.3
United States	131,152	134,561	133,870	2.1	-0.5
Atlantic	10,109	12,158	11,736	16.1	-3.5
Central	54,859	51,908	54,168	-1.3	4.4
West	66,184	70,495	67,966	2.7	-3.6

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

Nonfat Dry Milk (Human) Production – States and United States: August 2017 and 2018

State	August 2017	July 2018	August 2018	Change from	
				August 2017	July 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	36,208	32,139	29,706	-18.0	-7.6
Pennsylvania	12,788	16,913	11,131	-13.0	-34.2
Other States ¹	87,757	95,244	82,058	-6.5	-13.8
United States	136,753	144,296	122,895	-10.1	-14.8
Atlantic	26,961	34,165	26,389	-2.1	-22.8
Central	25,961	29,550	27,241	4.9	-7.8
West	83,831	80,581	69,265	-17.4	-14.0

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: August 2017 and 2018

State	August 2017	July 2018	August 2018	Change from	
				August 2017	July 2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Wisconsin	30,190	27,221	26,016	-13.8	-4.4
Other States ¹	62,948	63,088	52,219	-17.0	-17.2
United States	93,138	90,309	78,235	-16.0	-13.4
Atlantic	21,244	22,253	21,829	2.8	-1.9
Central	41,833	38,347	35,771	-14.5	-6.7
West	30,061	29,709	20,635	-31.4	-30.5

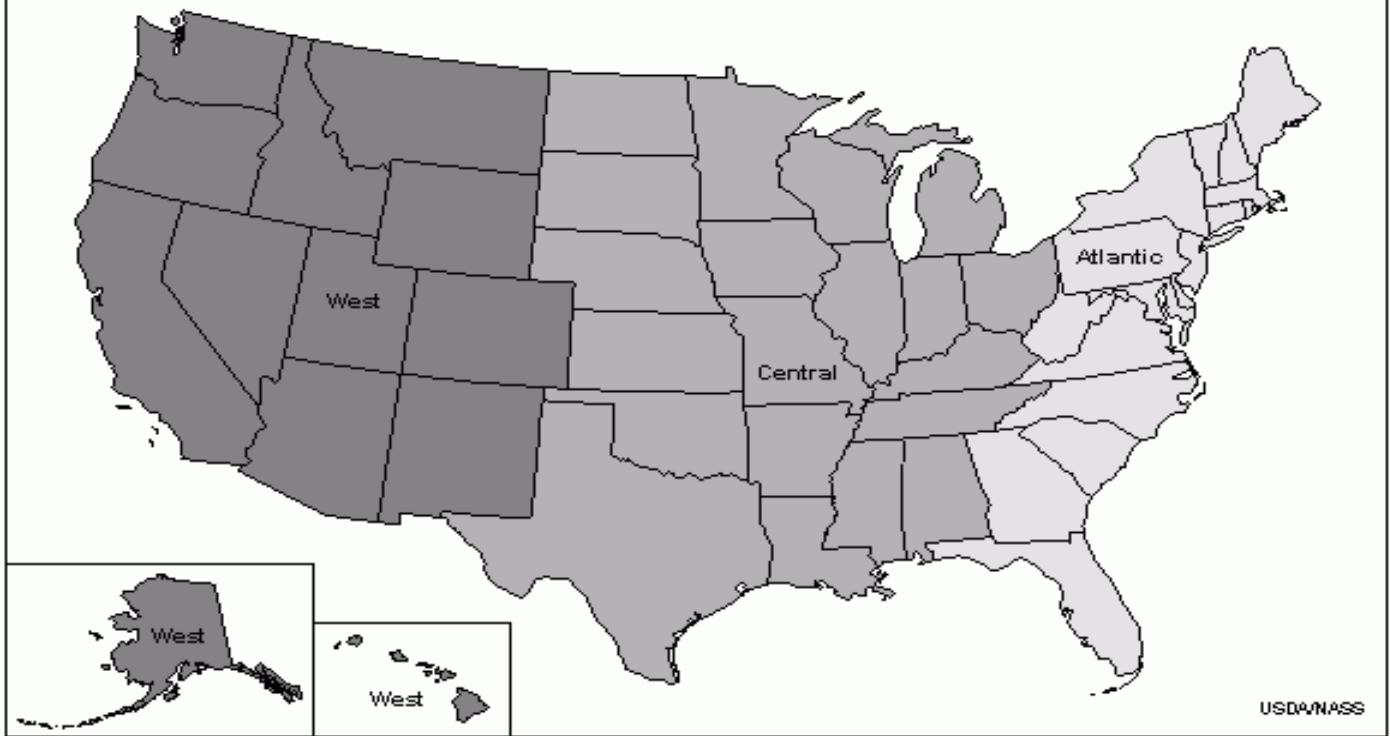
¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Ice Cream, Regular (Hard) Production – States and United States: August 2017 and 2018

State	August 2017	July 2018	August 2018	Change from	
				August 2017	July 2018
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
California	11,098	7,389	7,263	-34.6	-1.7
Connecticut	1,131	1,042	1,141	0.9	9.5
Missouri	3,431	3,388	3,294	-4.0	-2.8
Ohio	2,713	2,851	2,820	3.9	-1.1
Oregon	978	1,444	1,262	29.0	-12.6
Pennsylvania	3,651	3,676	3,624	-0.7	-1.4
Tennessee	2,602	1,975	2,313	-11.1	17.1
Utah	2,260	2,839	2,713	20.0	-4.4
Other States ¹	45,732	45,839	47,083	3.0	2.7
United States	73,596	70,443	71,513	-2.8	1.5
Atlantic	16,304	15,795	16,614	1.9	5.2
Central	40,947	40,828	41,561	1.5	1.8
West	16,345	13,820	13,338	-18.4	-3.5

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

Dairy Products Regions



West: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming.

Central: Alabama, Arkansas, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Michigan, Minnesota, Mississippi, Missouri, Nebraska, North Dakota, Ohio, Oklahoma, South Dakota, Tennessee, Texas, Wisconsin.

Atlantic: Connecticut, Delaware, Florida, Georgia, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, North Carolina, Rhode Island, South Carolina, Vermont, Virginia, West Virginia.

Statistical Methodology

Data Collection Period: Dairy products estimates are based upon survey data collected after the close of each month. Production data are provided by the firms producing dairy products.

Sampling frames and sample size: In 2017, there were 1,306 manufacturers that produced one or more dairy products. In states with small numbers of plants, reports are received from all plants each month. In states with large numbers of plants, survey procedures are designed to obtain monthly reports from all large plants and from a sample of small plants. In some states, the State Departments of Agriculture assist in collection of data, which eliminates duplicate reporting and reduces respondent burden.

Modes of data collection: Data are collected by mail, personal and telephone interviews, facsimile, and via electronic mail.

Terms and definitions: Firms complete the questionnaire using standard industry definitions and through the aid of instructions and definitions provided on the questionnaire.

Reliability: Data for the Dairy Products report are collected by a Census of all known manufacturers of dairy products in the United States. Firms producing large quantities of dairy products, along with a sample of smaller firms, are contacted monthly to collect previous month production data. Those small firms not contacted monthly are contacted after the close of the year to obtain previous year production. Production of products at small firms not contacted monthly are estimated during the monthly survey based upon check data, and state and national trends. Small firms are defined as those that do not make up a significant portion of the published total. Plants storing nonfat dry milk and dry whey are required under Federal law as defined in Public Laws 106-532 and 107-171 to complete the Dairy Products report. Plants storing these items are contacted monthly. Additionally, many state governments have mandated that dairy plants in their state complete the Dairy Products report each month. Because the Dairy Products survey is a census, sampling error should not affect the final estimates, however non-sampling errors are possible.

Estimating Procedures: In the Regional Field Office (RFO), data reported by firms are reviewed for reasonableness and consistency by comparing with data reported in prior months and by data reported by other firms in the State. Each RFO summarizes data at the Individual State level. State estimates are submitted to the Agricultural Statistics Board (ASB) along with supporting comments where they are compared with surrounding states, their region, and national trends. During both RFO and ASB review, plants are sometimes contacted again for further verification of numbers reported. After ASB review, RFO data are summarized into a National level summary.

Revision Policy: Monthly estimates are subject to revision the month following the preliminary estimates. Annual estimates are published in late April in the *Dairy Products Yearly Summary* report which includes any revisions made to previous 2 years of estimates. Revisions are generally due to plant data that are received too late to be included in the current report.

Information Contacts

Listed below are the commodity specialists in the Livestock Branch of the National Agricultural Statistics Service to contact for additional information. E-mail inquiries may be sent to nass@nass.usda.gov.

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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- 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.

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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