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Dairy Products 2018 Summary

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Summary

Total cheese production, excluding cottage cheeses, was 13.0 billion pounds, 3.0 percent above 2017 production. Wisconsin was the leading State with 26.3 percent of the production.

Italian varieties, with 5.56 billion pounds was 3.0 percent above 2017 production and accounted for 42.7 percent of total cheese in 2018. Mozzarella accounted for 78.3 percent of the Italian production followed by Parmesan with 7.6 percent and Provolone with 7.2 percent. Wisconsin was the leading State in Italian cheese production with 31.1 percent of the production.

American type cheese production was 5.25 billion pounds, 3.6 percent above 2017 and accounted for 40.3 percent of total cheese in 2018. Wisconsin was the leading State in American type cheese production with 19.5 percent of the production.

Butter production in the United States during 2018 totaled 1.89 billion pounds, 2.4 percent above 2017. California was the leading state in Butter production with 30.6 percent of the production.

Dry milk powders (2018 United States production, comparisons in percentage with 2017)

Nonfat dry milk, human - 1.77 billion pounds, down 3.4 percent.

Skim milk powders - 567 million pounds, up 7.0 percent.

Whey products (2018 United States production, comparisons in percentage with 2017)

Dry whey, total - 999 million pounds, down 3.5 percent.

Lactose, human and animal - 1.16 billion pounds, up 3.0 percent.

Whey protein concentrate, total - 514 million pounds, up 5.1 percent.

Frozen products (2018 United States production, comparisons in percentage with 2017)

Ice cream, Regular (total) - 840 million gallons, down 3.6 percent.

Ice cream, Lowfat (total) - 451 million gallons, down 2.2 percent.

Sherbet (total) - 40.2 million gallons, down 6.4 percent.

Frozen Yogurt (total) - 50.2 million gallons, down 20.2 percent.

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

Products	Plants	January	February	March	April
	(number)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Butter	97	178,060	161,013	177,021	161,956
Cheese					
American types	261	434,638	390,324	429,569	434,669
Cheddar	240	327,339	291,518	323,453	329,682
Other American ¹	160	107,299	98,806	106,116	104,987
Blue and Gorgonzola	54	7,620	7,060	7,182	7,876
Brick	23	219	133	185	337
Cream and Neufchatel	36	73,848	64,164	63,346	69,644
Feta	48	8,723	9,235	10,637	11,010
Gouda	79	3,875	7,314	5,984	5,095
Hispanic	61	22,079	21,700	25,936	23,715
Italian types	209	455,515	407,544	471,216	449,326
Mozzarella	134	353,165	315,534	362,560	348,680
Parmesan	52	38,697	32,553	39,191	38,242
Provolone	39	31,434	28,740	34,517	32,669
Ricotta	58	21,050	19,046	23,083	18,102
Romano	27	4,571	5,175	4,269	4,974
Other Italian types	56	6,598	6,496	7,596	6,659
Muenster	40	14,885	13,075	15,762	16,418
Swiss	63	26,286	24,169	26,846	26,383
All other types	215	13,256	13,635	13,142	12,602
Total cheese ²	553	1,060,944	958,353	1,069,805	1,057,075
Cottage cheese, curd ³	53	32,063	31,222	34,803	32,599
Cottage cheese, creamed ⁴	52	26,122	25,698	29,010	25,942
Cottage cheese, lowfat ⁵	54	28,655	28,142	30,711	29,610
Sour cream	112	113,967	99,700	115,648	109,615
Yogurt, plain and flavored	170	381,760	369,737	411,605	375,287

See footnote(s) at end of table.

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

Products	May	June	July	August	September
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Butter	163,397	139,200	135,625	131,152	134,552
Cheese					
American types	443,095	419,273	414,508	414,292	403,555
Cheddar	327,467	302,102	298,297	298,318	291,766
Other American ¹	115,628	117,171	116,211	115,974	111,789
Blue and Gorgonzola	8,607	7,942	7,845	7,840	6,904
Brick	237	191	170	166	215
Cream and Neufchatel	70,934	69,356	78,631	86,692	89,137
Feta	11,717	11,622	11,701	10,388	9,874
Gouda	4,069	4,728	5,365	5,073	4,678
Hispanic	24,637	24,228	22,886	24,544	22,428
Italian types	454,425	451,434	452,010	437,910	433,070
Mozzarella	352,115	350,106	351,858	336,517	332,291
Parmesan	38,033	38,418	39,411	36,612	34,641
Provolone	32,456	34,090	34,139	34,184	33,438
Ricotta	19,000	17,300	15,963	20,568	21,857
Romano	6,276	4,521	4,587	4,407	4,107
Other Italian types	6,545	6,999	6,052	5,622	6,736
Muenster	16,259	15,390	18,104	16,502	14,932
Swiss	26,262	26,040	26,736	25,646	25,622
All other types	14,428	13,802	14,046	16,287	16,401
Total cheese ²	1,074,670	1,044,006	1,052,002	1,045,340	1,026,816
Cottage cheese, curd ³	35,558	32,374	33,267	35,563	30,998
Cottage cheese, creamed ⁴	29,538	27,626	28,007	30,434	27,146
Cottage cheese, lowfat ⁵	31,746	27,924	28,450	31,370	27,396
Sour cream	118,884	117,764	107,401	118,709	108,314
Yogurt, plain and flavored	385,257	376,339	349,476	396,288	393,702

See footnote(s) at end of table.

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

Products	October	November	December	Total	2017 as percent of 2016
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)
Butter	144,671	149,721	171,105	1,847,473	0.4
Cheese					
American types ¹	430,496	413,725	443,985	5,072,129	6.4
Cheddar	307,844	296,609	327,073	3,721,468	8.4
Other American	122,652	117,116	116,912	1,350,661	1.2
Blue and Gorgonzola	7,899	7,532	7,009	91,316	0.5
Brick	179	197	195	2,424	-14.8
Cream and Neufchatel	84,929	83,126	84,264	918,071	1.0
Feta	10,120	8,368	9,075	122,470	-3.5
Gouda	5,302	8,213	5,704	65,400	11.6
Hispanic	26,827	24,423	23,118	286,521	8.1
Italian types	454,859	457,497	470,442	5,395,248	1.7
Mozzarella	347,484	351,563	365,619	4,167,492	1.2
Parmesan	37,766	37,886	39,190	450,640	10.6
Provolone	34,101	32,535	31,489	393,792	-1.9
Ricotta	24,226	23,327	22,390	245,912	-2.5
Romano	5,029	4,967	5,419	58,302	11.2
Other Italian types	6,253	7,219	6,335	79,110	8.3
Muenster	17,416	16,051	14,373	189,167	4.3
Swiss	27,338	26,837	28,489	316,654	1.5
All other types	17,083	19,736	16,144	180,562	(X)
Total cheese ²	1,082,448	1,065,705	1,102,798	12,639,962	3.8
Cottage cheese, curd ³	33,444	29,668	28,850	390,409	-3.9
Cottage cheese, creamed ⁴	28,829	26,066	26,066	330,484	0.3
Cottage cheese, lowfat ⁵	29,205	26,060	25,152	344,421	-6.4
Sour cream	126,023	129,312	121,812	1,387,149	1.0
Yogurt, plain and flavored	368,553	317,597	352,603	4,478,204	0.4

(X) Not applicable.

¹ Includes Cheddar, Colby, washed curd, stirred curd, Monterey, and Jack.

² Excludes cottage cheese.

³ Mostly used for processing into creamed or lowfat cottage cheese.

⁴ Fat content 4 percent or more.

⁵ Fat content less than 4 percent.

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

Products	Plants	January	February	March	April
	(number)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Butter	98	182,143	167,669	181,847	175,216
Cheese					
American types	266	448,124	406,189	443,185	444,287
Cheddar	244	331,985	301,256	320,257	319,153
Other American ¹	161	116,139	104,933	122,928	125,134
Blue and Gorgonzola	55	7,459	7,115	8,151	7,863
Brick	17	153	144	208	272
Cream and Neufchatel	38	71,932	63,932	72,774	68,434
Feta	46	9,667	9,692	11,187	12,036
Gouda	84	5,121	3,457	5,924	4,513
Hispanic	61	24,032	21,791	25,611	24,115
Italian types	209	473,913	428,100	483,095	460,768
Mozzarella	133	365,563	328,591	372,712	358,320
Parmesan	49	42,568	38,996	41,508	39,631
Provolone	40	32,633	29,285	33,826	34,496
Ricotta	56	22,989	20,886	23,200	17,734
Romano	26	4,611	4,653	5,432	4,678
Other Italian types	56	5,549	5,689	6,417	5,909
Muenster	44	15,135	13,946	14,910	15,862
Swiss	63	28,183	26,350	28,685	26,828
All other types	218	14,951	12,108	14,292	13,170
Total cheese ²	553	1,098,670	992,824	1,108,022	1,078,148
Cottage cheese, curd ³	54	32,660	31,545	36,016	33,353
Cottage cheese, creamed ⁴	54	27,933	27,261	32,655	29,410
Cottage cheese, lowfat ⁵	53	29,299	27,577	31,340	29,982
Sour cream	115	120,265	98,965	116,365	111,335
Yogurt, plain and flavored	162	372,015	376,710	389,848	358,160

See footnote(s) at end of table.

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

Products	May	June	July	August	September
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Butter	170,122	142,122	134,564	133,571	135,041
Cheese					
American types	442,968	429,076	440,937	435,388	424,032
Cheddar	318,665	312,869	325,217	311,974	297,632
Other American ¹	124,303	116,207	115,720	123,414	126,400
Blue and Gorgonzola	7,994	7,246	7,890	8,027	8,339
Brick	230	203	197	161	172
Cream and Neufchatel	67,467	74,650	73,530	85,203	78,516
Feta	12,706	11,959	12,603	10,564	10,018
Gouda	6,123	6,243	5,509	7,001	4,871
Hispanic	26,245	25,727	24,709	27,013	25,193
Italian types	460,817	450,929	462,769	453,431	450,964
Mozzarella	359,072	355,249	367,437	357,346	358,579
Parmesan	37,515	33,192	32,003	28,959	26,467
Provolone	34,396	32,809	34,606	35,501	34,374
Ricotta	18,077	17,656	17,463	21,221	20,976
Romano	5,086	5,195	5,176	4,223	3,840
Other Italian types	6,671	6,828	6,084	6,181	6,728
Muenster	16,850	16,034	17,956	16,011	15,794
Swiss	28,816	27,763	28,195	27,884	26,414
All other types	15,033	16,159	12,802	16,283	14,763
Total cheese ²	1,085,249	1,065,989	1,087,097	1,086,966	1,059,076
Cottage cheese, curd ³	36,368	34,349	34,706	36,300	33,010
Cottage cheese, creamed ⁴	32,320	31,006	30,114	31,920	27,141
Cottage cheese, lowfat ⁵	31,476	28,321	29,296	29,342	26,943
Sour cream	119,221	114,106	109,820	119,327	107,914
Yogurt, plain and flavored	373,431	373,079	360,886	396,296	369,989

See footnote(s) at end of table.

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

Products	October	November	December	Total	2018 as percent of 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)
Butter	148,896	149,428	170,388	1,891,007	2.4
Cheese					
American types ¹	457,122	434,185	448,340	5,253,833	3.6
Cheddar	323,213	314,170	326,117	3,802,508	2.2
Other American	133,909	120,015	122,223	1,451,325	7.5
Blue and Gorgonzola	8,379	7,442	8,743	94,648	3.6
Brick	190	198	148	2,276	-6.1
Cream and Neufchatel	95,019	85,805	77,562	914,824	-0.4
Feta	12,507	8,411	8,473	129,823	6.0
Gouda	6,132	6,369	3,989	65,252	-0.2
Hispanic	30,134	27,373	29,973	311,916	8.9
Italian types	483,852	469,207	479,005	5,556,850	3.0
Mozzarella	381,217	370,269	377,006	4,351,361	4.4
Parmesan	33,656	32,470	37,526	424,491	-5.8
Provolone	34,283	31,173	30,404	397,786	1.0
Ricotta	23,902	23,204	22,153	249,461	1.4
Romano	4,537	5,104	5,523	58,058	-0.4
Other Italian types	6,257	6,987	6,393	75,693	-4.3
Muenster	18,325	15,903	14,543	191,269	1.1
Swiss	27,390	27,888	27,907	332,303	4.9
All other types	15,120	13,184	13,728	171,593	(X)
Total cheese ²	1,154,170	1,095,965	1,112,411	13,024,587	3.0
Cottage cheese, curd ³	33,463	31,073	29,519	402,362	3.1
Cottage cheese, creamed ⁴	29,828	27,051	26,146	352,785	6.7
Cottage cheese, lowfat ⁵	28,706	25,181	24,621	342,084	-0.7
Sour cream	128,883	130,767	126,443	1,403,411	1.2
Yogurt, plain and flavored	363,128	310,848	343,698	4,388,088	-2.0

(X) Not applicable.

¹ Includes Cheddar, Colby, washed curd, stirred curd, Monterey, and Jack.

² Excludes cottage cheese.

³ Mostly used for processing into creamed or lowfat cottage cheese.

⁴ Fat content 4 percent or more.

⁵ Fat content less than 4 percent.

Ice Cream Production by Product and Month – United States: 2017

Products	Plants	January	February	March	April
	(number)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
Frozen products					
Ice cream, regular, total	(NA)	63,386	66,203	84,000	78,983
Ice cream, regular, hard	408	53,262	55,868	70,879	66,450
Ice cream, lowfat, total ¹	(NA)	31,700	38,803	45,145	41,629
Ice cream, lowfat, hard	114	12,755	15,107	18,143	17,041
Ice cream, lowfat, soft	(NA)	18,945	23,696	27,002	24,588
Ice cream, nonfat, total	(NA)	892	930	1,277	1,117
Ice cream, nonfat, hard	46	582	600	701	728
Sherbet, total	(NA)	3,695	3,347	4,192	4,171
Sherbet, hard	141	3,291	3,005	3,764	3,779
Yogurt, total	(NA)	5,213	5,466	6,949	6,479
Yogurt, regular and lowfat, hard	93	1,895	2,158	2,474	2,448
Yogurt, nonfat, hard	47	507	449	828	673
Other frozen dairy products ²	58	806	829	2,143	2,225
Water and juice ices ²	115	3,689	5,419	6,783	5,850
Mix for frozen products					
Ice cream, regular, mix	264	32,623	33,928	43,847	41,427
Ice cream, lowfat, mix ³	156	16,176	19,552	23,039	21,711
Ice cream, nonfat, mix	46	526	530	726	578
Sherbet mix	109	2,242	2,027	2,581	2,517
Yogurt mix	99	2,971	3,029	3,775	3,371

See footnote(s) at end of table.

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Ice Cream Production by Product and Month – United States: 2017 (continued)

Products	May	June	July	August	September
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
Frozen products					
Ice cream, regular, total	82,535	85,321	80,492	84,206	68,700
Ice cream, regular, hard	69,130	70,987	66,406	70,143	57,909
Ice cream, lowfat, total ¹	46,354	46,392	42,695	43,891	34,944
Ice cream, lowfat, hard	17,391	17,685	15,654	16,396	13,623
Ice cream, lowfat, soft	28,963	28,707	27,041	27,495	21,321
Ice cream, nonfat, total	1,004	1,086	962	1,062	898
Ice cream, nonfat, hard	640	648	534	658	609
Sherbet, total	3,922	4,247	3,651	4,087	3,757
Sherbet, hard	3,574	3,815	3,308	3,681	3,274
Yogurt, total	5,946	5,762	5,317	5,780	4,509
Yogurt, regular and lowfat, hard	1,841	1,604	1,603	1,748	1,351
Yogurt, nonfat, hard	805	750	655	621	514
Other frozen dairy products ²	2,220	2,081	2,218	2,188	2,135
Water and juice ices ²	6,826	7,393	7,155	6,556	4,527
Mix for frozen products					
Ice cream, regular, mix	42,969	45,049	42,268	44,623	35,438
Ice cream, lowfat, mix ³	24,861	24,990	23,845	23,877	18,395
Ice cream, nonfat, mix	507	557	514	544	492
Sherbet mix	2,325	2,485	2,298	2,516	2,284
Yogurt mix	3,205	3,120	2,778	3,122	2,550

See footnote(s) at end of table.

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Ice Cream Production by Product and Month – United States: 2017 (continued)

Products	October	November	December	Total	2017 as percent of 2016
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)
Frozen products					
Ice cream, regular, total	65,801	57,607	53,923	871,157	-3.9
Ice cream, regular, hard	55,392	48,794	45,942	731,162	-6.4
Ice cream, lowfat, total ¹	34,414	27,499	27,948	461,414	5.9
Ice cream, lowfat, hard	13,570	10,949	11,719	180,033	-11.5
Ice cream, lowfat, soft	20,844	16,550	16,229	281,381	21.0
Ice cream, nonfat, total	851	629	719	11,427	-8.1
Ice cream, nonfat, hard	566	354	453	7,073	-3.0
Sherbet, total	2,779	2,647	2,480	42,975	-2.9
Sherbet, hard	2,542	2,346	2,182	38,561	-2.2
Yogurt, total	4,092	4,164	3,234	62,911	-5.8
Yogurt, regular and lowfat, hard	1,245	1,331	1,169	20,867	-3.9
Yogurt, nonfat, hard	473	355	329	6,959	2.5
Other frozen dairy products ²	2,001	2,178	1,528	22,552	54.4
Water and juice ices ²	4,303	3,388	2,834	64,723	2.0
Mix for frozen products					
Ice cream, regular, mix	34,136	29,511	26,765	452,584	-3.4
Ice cream, lowfat, mix ³	17,587	14,717	14,400	243,150	4.8
Ice cream, nonfat, mix	488	402	425	6,289	-9.4
Sherbet mix	1,714	1,574	1,518	26,081	-0.9
Yogurt mix	2,260	2,212	2,048	34,441	-11.2

(NA) Not available.

¹ Includes freezer-made milkshake.

² Plant count does not include counter-freezers.

³ Includes milkshake mix.

Ice Cream Production by Product and Month – United States: 2018

Products	Plants	January	February	March	April
	(number)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
Frozen products					
Ice cream, regular, total	(NA)	62,288	64,422	74,087	73,549
Ice cream, regular, hard	400	53,684	55,447	63,553	62,821
Ice cream, lowfat, total ¹	(NA)	32,568	34,823	41,108	40,800
Ice cream, lowfat, hard	105	14,553	16,387	18,780	18,555
Ice cream, lowfat, soft	(NA)	18,015	18,436	22,328	22,245
Ice cream, nonfat, total	(NA)	939	827	1,309	1,055
Ice cream, nonfat, hard	40	617	531	912	697
Sherbet, total	(NA)	3,103	3,426	3,636	3,866
Sherbet, hard	132	2,858	3,112	3,368	3,578
Yogurt, total	(NA)	4,054	4,094	5,495	5,212
Yogurt, regular and lowfat, hard	85	1,429	1,132	2,020	1,745
Yogurt, nonfat, hard	46	358	527	727	530
Other frozen dairy products ²	53	1,935	1,543	1,761	2,105
Water and juice ices ²	108	4,194	5,108	6,455	6,464
Mix for frozen products					
Ice cream, regular, mix	263	32,597	34,374	38,638	39,523
Ice cream, lowfat, mix ³	157	18,323	19,467	24,096	23,685
Ice cream, nonfat, mix	47	530	452	712	566
Sherbet mix	104	1,902	2,136	2,197	2,299
Yogurt mix	98	2,509	2,520	3,230	3,029

See footnote(s) at end of table.

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Ice Cream Production by Product and Month – United States: 2018 (continued)

Products	May	June	July	August	September
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
Frozen products					
Ice cream, regular, total	76,236	83,084	81,640	82,232	65,841
Ice cream, regular, hard	64,551	70,263	68,966	70,111	56,601
Ice cream, lowfat, total ¹	42,471	45,471	42,333	41,742	34,907
Ice cream, lowfat, hard	17,848	20,133	18,368	19,090	17,038
Ice cream, lowfat, soft	24,623	25,338	23,965	22,652	17,869
Ice cream, nonfat, total	1,270	1,140	897	894	794
Ice cream, nonfat, hard	872	761	564	549	545
Sherbet, total	3,823	3,882	3,431	3,541	3,386
Sherbet, hard	3,513	3,563	3,151	3,255	3,084
Yogurt, total	4,880	5,089	4,258	4,005	3,622
Yogurt, regular and lowfat, hard	1,695	1,587	1,515	1,268	1,074
Yogurt, nonfat, hard	531	598	391	334	571
Other frozen dairy products ²	1,951	2,086	2,507	2,010	1,881
Water and juice ices ²	6,592	7,472	6,964	6,230	5,293
Mix for frozen products					
Ice cream, regular, mix	41,186	44,098	43,520	43,446	34,638
Ice cream, lowfat, mix ³	26,059	27,157	26,175	24,983	19,785
Ice cream, nonfat, mix	625	587	480	472	423
Sherbet mix	2,336	2,369	2,073	2,233	2,026
Yogurt mix	2,886	2,992	2,560	2,445	2,323

See footnote(s) at end of table.

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Ice Cream Production by Product and Month – United States: 2018 (continued)

Products	October	November	December	Total	2018 as percent of 2017
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)
Frozen products					
Ice cream, regular, total	70,091	55,592	50,966	840,028	-3.6
Ice cream, regular, hard	60,610	48,070	43,855	718,532	-1.7
Ice cream, lowfat, total ¹	36,607	30,121	28,152	451,103	-2.2
Ice cream, lowfat, hard	17,447	14,673	13,802	206,674	14.8
Ice cream, lowfat, soft	19,160	15,448	14,350	244,429	-13.1
Ice cream, nonfat, total	1,038	699	404	11,266	-1.4
Ice cream, nonfat, hard	774	487	238	7,547	6.7
Sherbet, total	3,218	2,574	2,320	40,206	-6.4
Sherbet, hard	2,978	2,341	2,100	36,901	-4.3
Yogurt, total	3,124	3,261	3,133	50,227	-20.2
Yogurt, regular and lowfat, hard	1,167	997	1,269	16,898	-19.0
Yogurt, nonfat, hard	262	434	240	5,503	-20.9
Other frozen dairy products ²	1,960	1,040	1,014	21,793	-3.4
Water and juice ices ²	4,698	4,228	3,029	66,727	3.1
Mix for frozen products					
Ice cream, regular, mix	36,455	29,323	26,694	444,492	-1.8
Ice cream, lowfat, mix ³	20,799	17,035	15,294	262,858	8.1
Ice cream, nonfat, mix	593	425	285	6,150	-2.2
Sherbet mix	1,902	1,614	1,445	24,532	-5.9
Yogurt mix	2,013	2,070	2,023	30,600	-11.2

(NA) Not available.

¹ Includes freezer-made milkshake.

² Plant count does not include counter-freezers.

³ Includes milkshake mix.

Whey and Modified Whey Products Production, Stocks, and Prices by Month – United States: 2017

Products	Plants	January	February	March	April
	(number)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Production					
Condensed whey, solids content ¹					
Sweet type, human	12	8,593	9,087	9,623	9,402
Dry whey products					
Dry whey, human	31	79,342	75,151	85,593	82,593
Dry whey, animal	23	2,913	2,397	2,009	2,625
Dry whey, total	(NA)	82,255	77,548	87,602	85,218
Reduced lactose and minerals					
Human	3	3,680	2,435	2,551	2,384
Animal	3	2,935	2,497	2,687	2,885
Whey protein concentrate					
Human ²	46	40,382	36,204	42,342	41,926
Animal ²	18	332	253	394	543
Total ²	(NA)	40,714	36,457	42,736	42,469
25.0-49.9 percent ³	21	15,620	14,012	16,349	16,857
50.0-89.9 percent ³	34	25,094	22,445	26,387	25,612
Whey protein isolates ⁴	18	10,234	10,064	9,690	9,415
Lactose, human and animal	30	92,320	84,386	95,317	96,265
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	(NA)	67,262	69,467	76,448	83,731
Dry whey, animal	(NA)	846	1,936	1,909	2,010
Dry whey, total	(NA)	68,108	71,403	78,357	85,741
Reduced lactose and minerals					
Human and animal ⁶	(NA)	6,340	5,637	5,573	5,871
Whey protein concentrate					
Human ²	(NA)	59,311	59,625	61,779	64,259
Animal ²	(NA)	1,395	595	474	855
Total ²	(NA)	60,706	60,220	62,253	65,114
25.0-49.9 percent ³	(NA)	22,129	21,928	23,663	24,976
50.0-89.9 percent ³	(NA)	38,577	38,292	38,590	40,138
Whey protein isolates ⁴	(NA)	23,907	23,651	24,363	24,504
Lactose, human and animal	(NA)	111,521	114,016	124,401	116,204
	(number)	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)
Manufacturers' selling price ⁷					
Dry whey, animal	(NA)	8.6	9.9	10.7	37.9

See footnote(s) at end of table.

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Whey and Modified Whey Products Production, Stocks, and Prices by Month – United States: 2017 (continued)

Products	May	June	July	August	September
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Production					
Condensed whey, solids content ¹					
Sweet type, human	9,309	8,564	8,381	8,843	8,489
Dry whey products					
Dry whey, human	81,488	85,597	96,966	92,321	88,085
Dry whey, animal	2,057	2,289	2,686	1,927	2,476
Dry whey, total	83,545	87,886	99,652	94,248	90,561
Reduced lactose and minerals					
Human	2,885	2,190	2,596	1,962	2,765
Animal	2,761	2,553	3,002	2,539	2,471
Whey protein concentrate					
Human ²	41,582	39,400	40,461	37,972	38,861
Animal ²	411	1,269	1,126	765	248
Total ²	41,993	40,669	41,587	38,737	39,109
25.0-49.9 percent ³	15,288	15,660	15,287	13,866	14,714
50.0-89.9 percent ³	26,705	25,009	26,300	24,871	24,395
Whey protein isolates ⁴	9,767	10,189	9,927	9,691	9,442
Lactose, human and animal	93,634	96,082	98,117	96,679	94,903
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	83,860	82,991	94,314	97,526	105,599
Dry whey, animal	1,877	1,982	3,108	1,498	1,560
Dry whey, total	85,737	84,973	97,422	99,024	107,159
Reduced lactose and minerals					
Human and animal ⁶	6,907	6,859	7,222	7,119	7,143
Whey protein concentrate					
Human ²	67,289	67,454	68,742	70,127	71,308
Animal ²	899	1,239	1,611	1,300	403
Total ²	68,188	68,693	70,353	71,427	71,711
25.0-49.9 percent ³	25,144	24,579	24,222	22,915	23,106
50.0-89.9 percent ³	43,044	44,114	46,131	48,512	48,605
Whey protein isolates ⁴	25,470	25,152	25,422	26,937	26,760
Lactose, human and animal	131,593	137,404	145,121	160,671	153,059
	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)
Manufacturers' selling price ⁷					
Dry whey, animal	12.8	40.6	11.2	28.3	14.0

See footnote(s) at end of table.

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Whey and Modified Whey Products Production, Stocks, and Prices by Month – United States: 2017 (continued)

Products	October	November	December	Total	2017 as percent of 2016
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)
Production					
Condensed whey, solids content ¹					
Sweet type, human	9,552	8,778	7,955	106,576	-16.4
Dry whey products					
Dry whey, human	77,301	79,086	83,623	1,007,146	8.0
Dry whey, animal	2,448	2,151	2,290	28,268	24.7
Dry whey, total	79,749	81,237	85,913	1,035,414	8.4
Reduced lactose and minerals					
Human	1,623	1,298	1,629	27,998	-9.8
Animal	2,950	2,621	2,864	32,765	3.4
Whey protein concentrate					
Human ²	40,461	40,383	41,841	481,815	3.6
Animal ²	742	552	472	7,107	98.8
Total ²	41,203	40,935	42,313	488,922	4.4
25.0-49.9 percent ³	15,958	15,467	15,433	184,511	4.2
50.0-89.9 percent ³	25,245	25,468	26,880	304,411	4.5
Whey protein isolates ⁴	9,697	8,885	9,830	116,831	5.0
Lactose, human and animal	93,098	86,105	97,251	1,124,157	2.3
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	91,412	97,813	96,181	(X)	(X)
Dry whey, animal	1,633	1,867	1,682	(X)	(X)
Dry whey, total	93,045	99,680	97,863	(X)	(X)
Reduced lactose and minerals					
Human and animal ⁶	6,079	5,314	5,067	(X)	(X)
Whey protein concentrate					
Human ²	75,622	80,817	83,852	(X)	(X)
Animal ²	914	737	731	(X)	(X)
Total ²	76,536	81,554	84,583	(X)	(X)
25.0-49.9 percent ³	23,803	24,004	24,704	(X)	(X)
50.0-89.9 percent ³	52,733	57,550	59,879	(X)	(X)
Whey protein isolates ⁴	28,585	27,998	27,656	(X)	(X)
Lactose, human and animal	139,494	143,073	135,393	(X)	(X)
	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)	(percent)
Manufacturers' selling price ⁷					
Dry whey, animal	9.0	13.8	13.0	(X)	(X)

(NA) Not available.

(X) Not applicable.

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, FOB plant. Average monthly prices reported by firms.

Whey and Modified Whey Products Production, Stocks, and Prices by Month – United States: 2018

Products	Plants	January	February	March	April
	(number)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Production					
Condensed whey, solids content ¹					
Sweet type, human	11	7,713	8,390	9,433	9,354
Dry whey products					
Dry whey, human	30	89,023	88,674	89,855	84,502
Dry whey, animal	22	1,546	757	1,513	1,229
Dry whey, total	(NA)	90,569	89,431	91,368	85,731
Reduced lactose and minerals					
Human	3	1,895	1,413	2,401	2,258
Animal	3	3,042	2,633	2,753	3,148
Whey protein concentrate					
Human ²	48	43,969	40,834	49,286	41,518
Animal ²	18	288	348	1,177	369
Total ²	(NA)	44,257	41,182	50,463	41,887
25.0-49.9 percent ³	23	17,948	15,137	19,922	15,321
50.0-89.9 percent ³	35	26,309	26,045	30,541	26,566
Whey protein isolates ⁴	17	9,746	8,727	10,502	10,034
Lactose, human and animal	33	94,822	86,232	100,861	93,472
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	(NA)	84,082	87,242	74,920	66,466
Dry whey, animal	(NA)	1,176	1,452	1,087	2,277
Dry whey, total	(NA)	85,258	88,694	76,007	68,743
Reduced lactose and minerals					
Human and animal ⁶	(NA)	4,860	4,402	4,389	4,538
Whey protein concentrate					
Human ²	(NA)	83,915	79,674	77,862	74,928
Animal ²	(NA)	619	743	1,075	792
Total ²	(NA)	84,534	80,417	78,937	75,720
25.0-49.9 percent ³	(NA)	25,159	25,679	23,758	24,046
50.0-89.9 percent ³	(NA)	59,375	54,738	55,179	51,674
Whey protein isolates ⁴	(NA)	28,082	27,894	26,258	25,270
Lactose, human and animal	(NA)	122,295	113,005	110,984	104,950
	(number)	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)
Manufacturers' selling price ⁷					
Dry whey, animal	(NA)	10.2	14.8	12.7	13.2

See footnote(s) at end of table.

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Whey and Modified Whey Products Production, Stocks, and Prices by Month – United States: 2018 (continued)

Products	May	June	July	August	September
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Production					
Condensed whey, solids content ¹					
Sweet type, human	9,568	8,840	8,319	8,885	8,776
Dry whey products					
Dry whey, human	83,731	84,941	87,882	77,565	69,038
Dry whey, animal	2,173	1,662	2,289	1,249	913
Dry whey, total	85,904	86,603	90,171	78,814	69,951
Reduced lactose and minerals					
Human	2,743	1,788	1,337	1,852	1,943
Animal	2,872	2,608	3,288	2,776	2,690
Whey protein concentrate					
Human ²	42,054	40,664	40,499	42,322	41,017
Animal ²	370	337	378	534	974
Total ²	42,424	41,001	40,877	42,856	41,991
25.0-49.9 percent ³	15,295	14,873	16,868	17,514	15,910
50.0-89.9 percent ³	27,129	26,128	24,009	25,342	26,081
Whey protein isolates ⁴	9,452	10,438	10,646	9,408	10,447
Lactose, human and animal	96,204	95,874	98,603	97,273	91,391
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	66,468	66,845	75,127	71,510	67,843
Dry whey, animal	2,221	1,900	2,419	2,191	1,661
Dry whey, total	68,689	68,745	77,546	73,701	69,504
Reduced lactose and minerals					
Human and animal ⁶	4,384	4,054	4,255	3,822	3,930
Whey protein concentrate					
Human ²	69,855	64,363	58,862	61,900	59,862
Animal ²	775	749	1,860	939	905
Total ²	70,630	65,112	60,722	62,839	60,767
25.0-49.9 percent ³	20,254	20,077	17,967	20,914	20,077
50.0-89.9 percent ³	50,376	45,035	42,755	41,925	40,690
Whey protein isolates ⁴	25,933	25,917	26,181	31,635	25,915
Lactose, human and animal	105,669	102,065	88,250	86,164	81,631
	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)
Manufacturers' selling price ⁷					
Dry whey, animal	20.0	21.2	20.1	17.2	16.7

See footnote(s) at end of table.

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Whey and Modified Whey Products Production, Stocks, and Prices by Month – United States: 2018 (continued)

Products	October	November	December	Total	2018 as percent of 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)
Production					
Condensed whey, solids content ¹					
Sweet type, human	10,235	9,249	10,423	109,185	2.4
Dry whey products					
Dry whey, human	82,222	71,035	73,196	981,664	-2.5
Dry whey, animal	1,781	1,271	1,309	17,692	-37.4
Dry whey, total	84,003	72,306	74,505	999,356	-3.5
Reduced lactose and minerals					
Human	1,497	1,105	1,720	21,952	-21.6
Animal	3,519	3,046	2,616	34,991	6.8
Whey protein concentrate					
Human ²	42,016	40,681	43,064	507,924	5.4
Animal ²	376	238	658	6,047	-14.9
Total ²	42,392	40,919	43,722	513,971	5.1
25.0-49.9 percent ³	16,634	15,630	18,345	199,397	8.1
50.0-89.9 percent ³	25,758	25,289	25,377	314,574	3.3
Whey protein isolates ⁴	11,479	9,655	11,007	121,541	4.0
Lactose, human and animal	90,025	103,137	110,406	1,158,300	3.0
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	73,179	67,169	70,010	(X)	(X)
Dry whey, animal	1,145	1,023	926	(X)	(X)
Dry whey, total	74,324	68,192	70,936	(X)	(X)
Reduced lactose and minerals					
Human and animal ⁶	3,832	3,752	4,191	(X)	(X)
Whey protein concentrate					
Human ²	60,861	63,374	64,000	(X)	(X)
Animal ²	885	900	1,080	(X)	(X)
Total ²	61,746	64,274	65,080	(X)	(X)
25.0-49.9 percent ³	22,400	25,734	25,149	(X)	(X)
50.0-89.9 percent ³	39,346	38,540	39,931	(X)	(X)
Whey protein isolates ⁴	23,610	23,948	23,947	(X)	(X)
Lactose, human and animal	86,341	88,094	105,638	(X)	(X)
	(cents per pounds)	(cents per pounds)	(cents per pounds)	(cents per pounds)	(percent)
Manufacturers' selling price ⁷					
Dry whey, animal	21.8	35.0	34.7	(X)	(X)

(NA) Not available.

(X) Not applicable.

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, FOB plant. Average monthly prices reported by firms.

Canned, Condensed, and Dry Milk Products Production, Stocks, Shipments, and Prices by Month – United States: 2017

Products	Plants	January	February	March	April
	(number)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Production					
Bulk condensed milk					
Skim, sweetened	5	8,406	6,669	6,286	6,788
Skim, unsweetened	43	136,418	118,378	139,489	141,928
Whole, sweetened	5	10,090	23,026	11,494	11,567
Whole, unsweetened	8	8,617	4,833	5,131	4,245
Condensed or evaporated buttermilk	16	10,248	10,597	10,964	10,625
Canned milk					
Evaporated and condensed whole ¹	5	30,144	27,180	31,389	30,038
Evaporated skim	3	718	255	1,256	1,144
Dry milk products					
Dry buttermilk, total	24	11,793	10,608	9,849	8,733
Dry skim milk, animal	27	735	694	983	1,098
Dry whole milk	15	11,903	10,178	11,207	7,069
Milk protein concentrate, total ²	12	12,844	14,657	13,724	16,132
Nonfat dry milk, human	52	153,868	143,252	160,931	172,840
Skim milk powder, total ³	15	55,590	41,391	52,693	50,206
Manufacturers' stocks end of month ⁴					
Canned milk					
Evaporated and condensed whole ¹	(NA)	43,940	55,613	50,777	63,792
Dry milk products					
Dry buttermilk, total	(NA)	22,277	26,767	27,291	25,424
Dry skim milk, animal	(NA)	1,864	2,097	2,385	2,622
Dry whole milk	(NA)	18,034	21,660	22,284	23,060
Nonfat dry milk, human	(NA)	227,052	263,021	246,484	267,375
Manufacturers' shipments ⁵					
Dry milk products					
Dry buttermilk, human	(NA)	9,547	6,850	7,514	8,002
Dry skim milk, animal	(NA)	663	938	1,044	632
Dry whole milk	(NA)	6,486	6,119	8,825	7,127
Nonfat dry milk, human	(NA)	146,401	99,983	168,339	137,302
	(number)	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)
Manufacturers' selling price ⁶					
Dry milk products					
Dry buttermilk, human	(NA)	95.2	100.8	94.8	82.9
Dry skim milk, animal	(NA)	49.5	55.5	55.1	56.3
Dry whole milk	(NA)	157.0	161.1	158.3	148.2

See footnote(s) at end of table.

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Canned, Condensed, and Dry Milk Products Production, Stocks, Shipments, and Prices by Month – United States: 2017 (continued)

Products	May	June	July	August	September
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Production					
Bulk condensed milk					
Skim, sweetened	6,384	9,409	7,869	9,619	7,908
Skim, unsweetened	152,062	148,196	148,775	132,027	121,072
Whole, sweetened	10,715	10,971	12,706	12,286	11,265
Whole, unsweetened	3,903	3,993	4,315	3,993	3,986
Condensed or evaporated buttermilk	10,877	8,261	7,768	7,328	8,580
Canned milk					
Evaporated and condensed whole ¹	33,205	34,042	29,804	19,674	30,849
Evaporated skim	66	139	1,135	798	1,475
Dry milk products					
Dry buttermilk, total	9,362	8,044	7,909	7,510	8,300
Dry skim milk, animal	1,115	1,164	1,174	965	904
Dry whole milk	7,473	7,737	9,736	8,886	10,569
Milk protein concentrate, total ²	14,785	13,818	11,720	8,274	6,242
Nonfat dry milk, human	167,912	162,827	151,831	136,767	134,587
Skim milk powder, total ³	51,012	39,515	47,842	44,813	29,102
Manufacturers' stocks end of month ⁴					
Canned milk					
Evaporated and condensed whole ¹	69,730	76,890	79,138	82,905	75,947
Dry milk products					
Dry buttermilk, total	20,672	16,025	15,878	13,998	16,646
Dry skim milk, animal	1,915	2,230	4,355	4,097	4,275
Dry whole milk	22,961	21,224	21,864	15,948	20,608
Nonfat dry milk, human	280,078	297,773	295,906	312,929	320,765
Manufacturers' shipments ⁵					
Dry milk products					
Dry buttermilk, human	11,658	12,575	8,135	8,253	7,195
Dry skim milk, animal	1,449	847	835	1,913	604
Dry whole milk	7,280	8,664	9,046	10,441	9,073
Nonfat dry milk, human	141,576	144,441	154,584	135,492	141,297
	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)
Manufacturers' selling price ⁶					
Dry milk products					
Dry buttermilk, human	84.2	85.3	87.8	90.1	89.1
Dry skim milk, animal	51.0	58.0	50.6	56.4	51.7
Dry whole milk	144.2	155.2	156.9	166.5	160.9

See footnote(s) at end of table.

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Canned, Condensed, and Dry Milk Products Production, Stocks, Shipments, and Prices by Month – United States: 2017 (continued)

Products	October	November	December	Total	2017 as percent of 2016
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)
Production					
Bulk condensed milk					
Skim, sweetened	6,804	7,277	6,738	90,157	16.8
Skim, unsweetened	119,612	107,607	105,255	1,570,819	-4.9
Whole, sweetened	10,248	9,134	9,100	142,602	22.3
Whole, unsweetened	3,873	7,377	7,993	62,259	-36.0
Condensed or evaporated buttermilk	8,196	10,166	9,425	113,035	6.7
Canned milk					
Evaporated and condensed whole ¹	36,450	43,829	32,589	379,193	-17.0
Evaporated skim	1,596	458	116	9,156	-45.8
Dry milk products					
Dry buttermilk, total	9,512	10,119	11,165	112,904	3.0
Dry skim milk, animal	1,200	956	874	11,862	27.7
Dry whole milk	10,462	15,853	11,324	122,397	24.7
Milk protein concentrate, total ²	7,420	5,779	13,652	139,047	10.6
Nonfat dry milk, human	145,008	141,440	164,014	1,835,277	4.7
Skim milk powder, total ³	25,965	41,609	49,895	529,633	-5.3
Manufacturers' stocks end of month ⁴					
Canned milk					
Evaporated and condensed whole ¹	61,202	41,983	37,191	(X)	(X)
Dry milk products					
Dry buttermilk, total	18,435	21,094	23,670	(X)	(X)
Dry skim milk, animal	2,308	2,023	1,743	(X)	(X)
Dry whole milk	22,070	27,878	31,007	(X)	(X)
Nonfat dry milk, human	316,826	317,069	320,046	(X)	(X)
Manufacturers' shipments ⁵					
Dry milk products					
Dry buttermilk, human	6,350	6,495	6,683	(X)	(X)
Dry skim milk, animal	1,521	1,154	1,234	(X)	(X)
Dry whole milk	7,858	9,672	7,925	(X)	(X)
Nonfat dry milk, human	161,726	121,488	130,062	(X)	(X)
	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)	(percent)
Manufacturers' selling price ⁶					
Dry milk products					
Dry buttermilk, human	86.7	83.2	73.3	(X)	(X)
Dry skim milk, animal	56.5	54.5	53.3	(X)	(X)
Dry whole milk	163.9	154.3	151.8	(X)	(X)

(NA) Not available.

(X) Not applicable.

¹ Combined to avoid disclosing individual plant operations.

² Dry milk protein concentrate, 40.0-89.9 percent.

³ Includes protein standardized and blends.

⁴ Stocks held by manufacturers at all points and in transit.

⁵ For dry products, shipments of bulk goods.

⁶ Prices for bulk goods, FOB plant. Average monthly prices reported by firms, weighted by shipments of each firm.

Canned, Condensed, and Dry Milk Products Production, Stocks, Shipments, and Prices by Month – United States: 2018

Products	Plants	January	February	March	April
	(number)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Production					
Bulk condensed milk					
Skim, sweetened	7	11,073	7,442	16,765	10,286
Skim, unsweetened	42	108,833	112,184	133,721	131,409
Whole, sweetened	5	10,167	10,328	11,827	11,504
Whole, unsweetened	10	9,362	8,667	10,108	8,505
Condensed or evaporated buttermilk	16	11,497	10,414	12,237	12,653
Canned milk					
Evaporated and condensed whole ¹	7	37,328	30,213	28,156	33,140
Evaporated skim	3	1,140	399	668	746
Dry milk products					
Dry buttermilk, total	24	13,095	11,479	12,347	10,118
Dry skim milk, animal	28	720	1,528	1,019	1,349
Dry whole milk	13	9,689	17,804	21,876	13,912
Milk protein concentrate, total ²	14	13,819	10,233	13,277	15,863
Nonfat dry milk, human	56	159,272	157,105	177,980	169,428
Skim milk powder, total ³	19	44,033	38,034	42,066	49,457
Manufacturers' stocks end of month ⁴					
Canned milk					
Evaporated and condensed whole ¹	(NA)	51,472	48,558	49,050	53,147
Dry milk products					
Dry buttermilk, total	(NA)	25,068	25,453	25,933	23,177
Dry skim milk, animal	(NA)	2,425	2,949	2,925	3,353
Dry whole milk	(NA)	33,232	37,328	46,035	47,243
Nonfat dry milk, human	(NA)	300,828	296,991	297,296	273,346
Manufacturers' shipments ⁵					
Dry milk products					
Dry buttermilk, human	(NA)	9,430	10,429	10,400	12,449
Dry skim milk, animal	(NA)	671	1,400	1,385	1,176
Dry whole milk	(NA)	5,977	10,238	15,901	10,963
Nonfat dry milk, human	(NA)	136,779	146,156	165,149	181,206
Manufacturers' selling price ⁶					
Dry milk products					
Dry buttermilk, human	(NA)	69.6	69.0	69.3	64.5
Dry skim milk, animal	(NA)	48.9	54.8	56.8	60.1
Dry whole milk	(NA)	145.2	147.8	145.4	104.6

See footnote(s) at end of table.

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Canned, Condensed, and Dry Milk Products Production, Stocks, Shipments, and Prices by Month – United States: 2018 (continued)

Products	May	June	July	August	September
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Production					
Bulk condensed milk					
Skim, sweetened	8,067	8,120	9,842	7,529	7,853
Skim, unsweetened	140,407	138,432	143,739	138,462	120,080
Whole, sweetened	11,560	11,917	12,080	12,476	12,833
Whole, unsweetened	3,983	4,491	4,386	3,677	3,550
Condensed or evaporated buttermilk	9,353	7,901	8,110	6,904	7,611
Canned milk					
Evaporated and condensed whole ¹	33,961	30,438	34,033	24,904	36,212
Evaporated skim	480	1,639	1,061	1,149	2,429
Dry milk products					
Dry buttermilk, total	10,882	7,603	7,804	7,602	8,124
Dry skim milk, animal	1,407	1,764	1,325	1,267	895
Dry whole milk	25,411	11,209	8,349	9,603	5,779
Milk protein concentrate, total ²	17,413	17,599	9,282	9,163	9,908
Nonfat dry milk, human	165,670	152,244	150,193	129,077	114,030
Skim milk powder, total ³	50,374	59,439	47,498	47,558	46,694
Manufacturers' stocks end of month ⁴					
Canned milk					
Evaporated and condensed whole ¹	73,770	73,123	79,064	88,565	79,977
Dry milk products					
Dry buttermilk, total	18,768	14,946	13,750	12,120	12,218
Dry skim milk, animal	3,151	2,668	2,093	2,037	3,606
Dry whole milk	59,625	56,604	51,876	42,387	32,589
Nonfat dry milk, human	270,489	303,301	317,447	280,494	261,646
Manufacturers' shipments ⁵					
Dry milk products					
Dry buttermilk, human	13,003	10,050	9,234	8,377	7,761
Dry skim milk, animal	1,444	1,890	1,731	1,988	621
Dry whole milk	19,203	15,127	13,567	16,468	16,244
Nonfat dry milk, human	143,020	108,166	120,929	151,878	117,002
	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)
Manufacturers' selling price ⁶					
Dry milk products					
Dry buttermilk, human	68.9	65.2	75.6	78.2	80.9
Dry skim milk, animal	61.2	54.5	51.4	48.1	62.0
Dry whole milk	45.5	147.5	150.2	155.3	156.6

See footnote(s) at end of table.

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Canned, Condensed, and Dry Milk Products Production, Stocks, Shipments, and Prices by Month – United States: 2018 (continued)

Products	October	November	December	Total	2018 as percent of 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)
Production					
Bulk condensed milk					
Skim, sweetened	8,557	16,838	8,501	120,873	34.1
Skim, unsweetened	110,900	100,407	89,800	1,468,374	-6.5
Whole, sweetened	12,593	14,319	13,055	144,659	1.4
Whole, unsweetened	3,222	2,996	3,076	66,023	6.0
Condensed or evaporated buttermilk	7,765	7,514	7,653	109,612	-3.0
Canned milk					
Evaporated and condensed whole ¹	41,663	39,999	42,552	412,599	8.8
Evaporated skim	1,501	2,931	1,001	15,144	65.4
Dry milk products					
Dry buttermilk, total	10,072	9,922	9,027	118,075	4.6
Dry skim milk, animal	753	693	1,351	14,071	18.6
Dry whole milk	5,831	6,418	7,773	143,654	17.4
Milk protein concentrate, total ²	8,671	10,121	10,283	145,632	4.7
Nonfat dry milk, human	121,595	134,424	142,522	1,773,540	-3.4
Skim milk powder, total ³	48,580	42,455	50,316	566,504	7.0
Manufacturers' stocks end of month ⁴					
Canned milk					
Evaporated and condensed whole ¹	64,953	43,053	42,112	(X)	(X)
Dry milk products					
Dry buttermilk, total	12,975	14,462	17,648	(X)	(X)
Dry skim milk, animal	4,068	3,872	16,155	(X)	(X)
Dry whole milk	18,733	17,559	15,573	(X)	(X)
Nonfat dry milk, human	252,648	289,199	276,527	(X)	(X)
Manufacturers' shipments ⁵					
Dry milk products					
Dry buttermilk, human	7,400	6,385	5,877	(X)	(X)
Dry skim milk, animal	1,323	1,051	1,944	(X)	(X)
Dry whole milk	17,919	7,920	7,786	(X)	(X)
Nonfat dry milk, human	118,658	104,465	170,379	(X)	(X)
	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)	(percent)
Manufacturers' selling price ⁶					
Dry milk products					
Dry buttermilk, human	84.4	85.1	88.6	(X)	(X)
Dry skim milk, animal	67.0	56.3	71.3	(X)	(X)
Dry whole milk	154.5	158.9	152.3	(X)	(X)

(NA) Not available.

(X) Not applicable.

¹ Combined to avoid disclosing individual plant operations.

² Dry milk protein concentrate, 40.0-89.9 percent.

³ Includes protein standardized and blends.

⁴ Stocks held by manufacturers at all points and in transit.

⁵ For dry products, shipments of bulk goods.

⁶ Prices for bulk goods, FOB plant. Average monthly prices reported by firms, weighted by shipments of each firm.

Total Cheese (Excluding Cottage Cheese) Production by Month – States, United States, and Regions: 2018 and Total 2017-2018

State and region	2018							
	January	February	March	April	May	June	July	August
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
California	216,796	196,875	215,761	210,797	216,878	205,022	211,193	211,649
Idaho	85,453	72,365	86,090	85,569	77,420	83,477	85,668	76,758
Illinois	6,204	6,279	7,510	6,773	7,206	7,048	7,026	6,823
Iowa	22,446	21,235	24,076	24,042	26,334	25,228	25,371	25,373
Minnesota	61,872	57,565	63,394	61,934	63,641	61,663	60,888	61,254
New Jersey	5,137	4,240	5,213	4,733	4,638	5,029	4,874	5,093
New Mexico	68,294	65,346	76,278	74,638	76,553	74,221	75,203	75,321
New York	72,284	64,266	68,776	64,036	59,700	65,364	69,051	69,790
Ohio	21,067	18,840	20,198	19,100	20,277	19,299	19,563	21,564
Oregon	17,603	15,978	17,170	17,672	17,309	16,912	17,241	17,338
Pennsylvania	38,195	30,808	37,122	35,341	36,551	36,453	34,338	36,714
South Dakota	25,536	23,000	25,406	24,009	24,820	23,278	23,860	24,440
Vermont	12,370	11,566	12,093	12,437	12,481	11,848	11,766	11,418
Wisconsin	285,628	263,279	295,459	285,360	287,901	280,947	288,393	284,866
Other States ¹	159,785	141,182	153,476	151,707	153,540	150,200	152,662	158,765
United States	1,098,670	992,824	1,108,022	1,078,148	1,085,249	1,065,989	1,087,097	1,086,966
Atlantic	138,395	120,646	134,235	127,164	124,146	129,191	130,463	133,829
Central	505,710	462,041	510,984	495,336	504,595	493,613	497,385	504,434
West	454,565	410,137	462,803	455,648	456,508	443,185	459,249	448,703

State and region	2018					2017		
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(number)	(1,000 pounds)	(number)
California	205,392	215,533	216,196	221,276	2,543,368	61	2,513,336	59
Idaho	84,850	91,400	77,013	85,176	991,239	9	958,687	9
Illinois	6,818	6,121	7,175	7,305	82,288	11	82,389	11
Iowa	23,974	27,694	24,584	26,039	296,396	11	256,737	10
Minnesota	59,738	61,834	61,257	65,561	740,601	11	712,988	11
New Jersey	4,671	5,263	4,932	5,264	59,087	15	57,727	16
New Mexico	71,958	78,860	78,942	80,165	895,779	4	766,804	4
New York	62,684	73,427	68,499	64,454	802,331	62	829,410	64
Ohio	20,808	20,979	19,445	18,127	239,267	19	222,044	19
Oregon	17,121	18,787	18,053	18,645	209,829	8	206,679	8
Pennsylvania	34,029	40,248	37,143	36,808	433,750	46	411,552	44
South Dakota	23,609	24,253	25,635	25,809	293,455	7	282,304	7
Vermont	12,330	12,081	13,059	13,504	146,953	38	142,941	32
Wisconsin	279,295	308,590	283,378	279,799	3,422,895	118	3,376,769	120
Other States ¹	151,799	169,100	160,654	164,479	1,867,349	133	1,819,595	139
United States	1,059,076	1,154,170	1,095,965	1,112,411	13,024,587	553	12,639,962	553
Atlantic	124,088	142,056	134,643	131,286	1,570,142	227	1,562,164	224
Central	488,991	535,267	500,054	501,818	6,000,228	223	5,859,451	228
West	445,997	476,847	461,268	479,307	5,454,217	103	5,218,347	101

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

Total American Type Cheese Production by Month – States, United States, and Regions: 2018 and Total 2017-2018

[Includes Cheddar, Colby, washed curd, stirred curd, Monterey, and Jack]

State and region	2018							
	January	February	March	April	May	June	July	August
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
California	53,663	48,681	54,775	52,790	53,669	49,372	52,915	51,588
Idaho	55,267	48,804	52,554	56,079	50,463	52,739	54,107	51,660
Iowa	13,331	11,740	12,784	14,555	17,006	16,267	15,880	14,626
Minnesota	51,888	47,785	51,559	51,088	52,779	52,412	53,343	52,879
New York	11,914	10,663	12,001	11,695	11,862	11,916	11,489	12,118
Oregon	17,505	15,917	17,099	17,587	17,232	16,826	17,155	17,225
Wisconsin	91,159	81,603	89,151	88,633	87,614	83,319	85,353	82,360
Other States ¹	153,397	140,996	153,262	151,860	152,343	146,225	150,695	152,932
United States	448,124	406,189	443,185	444,287	442,968	429,076	440,937	435,388
Atlantic	27,993	25,866	28,686	27,847	28,145	27,237	27,253	28,391
Central	230,070	205,962	219,657	221,340	223,842	217,989	220,499	216,951
West	190,061	174,361	194,842	195,100	190,981	183,850	193,185	190,046

State and region	2018						2017	
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(number)	(1,000 pounds)	(number)
California	51,326	53,843	52,828	54,714	630,164	18	632,677	18
Idaho	51,074	54,116	48,261	50,303	625,427	5	605,555	5
Iowa	14,697	17,391	17,459	16,358	182,094	8	155,111	7
Minnesota	51,652	52,455	51,017	54,027	622,884	8	589,516	8
New York	10,980	11,481	11,626	11,815	139,560	25	132,273	25
Oregon	17,040	18,680	17,953	18,548	208,767	6	205,733	6
Wisconsin	78,558	89,885	82,566	85,575	1,025,776	70	1,016,702	69
Other States ¹	148,705	159,271	152,475	157,000	1,819,161	126	1,734,562	123
United States	424,032	457,122	434,185	448,340	5,253,833	266	5,072,129	261
Atlantic	26,514	27,541	27,964	28,719	332,156	94	325,257	89
Central	209,083	231,029	218,199	222,662	2,637,283	128	2,581,547	128
West	188,435	198,552	188,022	196,959	2,284,394	44	2,165,325	44

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

Cheddar Cheese Production by Month – States, United States, and Regions: 2018 and Total 2017-2018

State and region	2018							
	January (1,000 pounds)	February (1,000 pounds)	March (1,000 pounds)	April (1,000 pounds)	May (1,000 pounds)	June (1,000 pounds)	July (1,000 pounds)	August (1,000 pounds)
California	31,055	27,633	26,787	23,830	29,907	25,818	26,767	25,563
Idaho	43,813	39,024	42,244	46,346	36,973	40,827	43,299	39,933
Iowa	7,937	7,084	8,306	8,771	11,424	11,556	11,673	9,240
Minnesota	50,109	46,213	48,452	47,488	48,702	48,719	51,274	51,068
Oregon	14,213	13,743	13,456	15,193	14,507	13,479	14,455	14,439
Vermont	8,698	8,084	8,759	8,791	8,412	8,093	8,228	8,163
Wisconsin	65,986	58,764	64,170	63,031	60,545	57,001	58,995	54,956
Other States ¹	110,174	100,711	108,083	105,703	108,195	107,376	110,526	108,612
United States	331,985	301,256	320,257	319,153	318,665	312,869	325,217	311,974
Atlantic	26,828	24,295	27,159	26,614	26,400	25,801	25,841	26,717
Central	170,847	151,917	160,466	159,424	160,130	158,399	162,782	156,832
West	134,310	125,044	132,632	133,115	132,135	128,669	136,594	128,425
State and region	2018						2017	
	September (1,000 pounds)	October (1,000 pounds)	November (1,000 pounds)	December (1,000 pounds)	Total (1,000 pounds)	Plants (number)	Total (1,000 pounds)	Plants (number)
California	25,098	29,486	30,045	32,658	334,647	18	355,518	17
Idaho	38,893	38,986	36,528	36,820	483,686	5	483,375	5
Iowa	8,571	9,628	10,008	9,454	113,652	8	93,810	7
Minnesota	48,904	48,240	48,683	51,255	589,107	8	560,747	8
Oregon	13,304	15,973	14,331	15,385	172,478	6	172,844	6
Vermont	8,266	8,427	8,513	8,699	101,133	12	101,289	10
Wisconsin	52,671	60,968	57,333	60,290	714,710	69	704,093	69
Other States ¹	101,925	111,505	108,729	111,556	1,293,095	118	1,249,792	118
United States	297,632	323,213	314,170	326,117	3,802,508	244	3,721,468	240
Atlantic	25,037	26,080	26,288	27,335	314,395	80	308,757	75
Central	147,364	160,953	155,409	161,287	1,905,810	121	1,870,494	123
West	125,231	136,180	132,473	137,495	1,582,303	43	1,542,217	42

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

Other American Varieties of Cheese Production by Month – States, United States, and Regions: 2018 and Total 2017-2018

[Includes Colby, washed curd, stirred curd, Monterey, and Jack]

State and region	2018							
	January	February	March	April	May	June	July	August
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
California	22,608	21,048	27,988	28,960	23,762	23,554	26,148	26,025
Idaho	11,454	9,780	10,310	9,733	13,490	11,912	10,808	11,727
Minnesota	1,779	1,572	3,107	3,600	4,077	3,693	2,069	1,811
Wisconsin	25,173	22,839	24,981	25,602	27,069	26,318	26,358	27,404
Other States ¹	55,125	49,694	56,542	57,239	55,905	50,730	50,337	56,447
United States	116,139	104,933	122,928	125,134	124,303	116,207	115,720	123,414
Atlantic	1,165	1,571	1,527	1,233	1,745	1,436	1,412	1,674
Central	59,223	54,045	59,191	61,916	63,712	59,590	57,717	60,119
West	55,751	49,317	62,210	61,985	58,846	55,181	56,591	61,621

State and region	2018					2017		
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(number)	(1,000 pounds)	(number)
California	26,228	24,357	22,783	22,056	295,517	12	277,159	13
Idaho	12,181	15,130	11,733	13,483	141,741	2	122,180	2
Minnesota	2,748	4,215	2,334	2,772	33,777	4	28,769	3
Wisconsin	25,887	28,917	25,233	25,285	311,066	47	312,609	52
Other States ¹	59,356	61,290	57,932	58,627	669,224	96	609,944	90
United States	126,400	133,909	120,015	122,223	1,451,325	161	1,350,661	160
Atlantic	1,477	1,461	1,676	1,384	17,761	54	16,500	49
Central	61,719	70,076	62,790	61,375	731,473	82	711,053	85
West	63,204	62,372	55,549	59,464	702,091	25	623,108	26

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

Total Italian Cheese Production by Month – States, United States, and Regions: 2018 and Total 2017-2018

State and region	2018							
	January	February	March	April	May	June	July	August
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
California	142,319	129,480	138,293	138,333	139,619	131,707	137,549	137,436
Idaho	23,336	18,164	28,091	23,602	20,432	24,616	24,741	19,824
Minnesota	9,816	9,575	11,619	10,626	10,700	9,048	7,332	8,120
New York	32,065	29,467	32,637	27,893	27,355	28,335	29,498	30,308
Pennsylvania	23,157	19,981	22,883	21,661	22,236	21,948	21,941	22,336
Wisconsin	145,101	133,524	150,532	144,833	145,713	144,069	146,324	141,844
Other States ¹	98,119	87,909	99,040	93,820	94,762	91,206	95,384	93,563
United States	473,913	428,100	483,095	460,768	460,817	450,929	462,769	453,431
Atlantic	62,304	55,371	62,602	56,260	56,023	57,239	58,044	59,105
Central	191,372	176,055	198,809	188,694	189,827	183,919	186,256	183,363
West	220,237	196,674	221,684	215,814	214,967	209,771	218,469	210,963

State and region	2018					2017		
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(number)	(1,000 pounds)	(number)
California	132,816	137,324	141,470	142,505	1,648,851	31	1,616,480	28
Idaho	27,732	29,324	22,104	29,162	291,128	4	277,002	4
Minnesota	7,919	8,944	9,869	11,009	114,577	6	120,848	5
New York	27,687	32,013	31,573	30,411	359,242	18	360,831	18
Pennsylvania	21,441	22,285	22,729	23,125	265,723	17	252,380	18
Wisconsin	142,339	153,322	141,407	140,619	1,729,627	53	1,703,029	57
Other States ¹	91,030	100,640	100,055	102,174	1,147,702	80	1,064,678	79
United States	450,964	483,852	469,207	479,005	5,556,850	209	5,395,248	209
Atlantic	56,147	62,061	61,500	61,060	707,716	84	688,721	83
Central	182,984	198,555	184,726	185,621	2,250,181	79	2,202,041	83
West	211,833	223,236	222,981	232,324	2,598,953	46	2,504,486	43

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

Mozzarella Cheese Production by Month – States, United States, and Regions: 2018 and Total 2017-2018

State and region	2018							
	January (1,000 pounds)	February (1,000 pounds)	March (1,000 pounds)	April (1,000 pounds)	May (1,000 pounds)	June (1,000 pounds)	July (1,000 pounds)	August (1,000 pounds)
California	127,839	115,973	126,391	124,367	127,706	120,339	123,506	126,176
Idaho	22,452	17,656	27,198	22,688	19,778	23,614	23,875	19,290
New York	17,075	15,582	16,861	15,270	14,557	16,680	16,429	15,090
Pennsylvania	20,191	16,522	19,590	19,111	19,068	19,175	19,049	18,988
Wisconsin	94,346	87,920	98,500	95,627	96,178	95,211	99,141	94,268
Other States ¹	83,660	74,938	84,172	81,257	81,785	80,230	85,437	83,534
United States	365,563	328,591	372,712	358,320	359,072	355,249	367,437	357,346
Atlantic	40,298	34,915	39,716	37,451	36,836	39,831	39,438	38,216
Central	121,528	111,961	125,588	121,218	122,236	119,529	125,595	121,734
West	203,737	181,715	207,408	199,651	200,000	195,889	202,404	197,396

State and region	2018					2017		
	September (1,000 pounds)	October (1,000 pounds)	November (1,000 pounds)	December (1,000 pounds)	Total (1,000 pounds)	Plants (number)	Total (1,000 pounds)	Plants (number)
California	122,908	126,651	130,420	131,296	1,503,572	26	1,471,960	25
Idaho	27,002	28,539	21,459	28,161	281,712	3	262,943	3
New York	13,788	15,747	15,979	16,594	189,652	13	188,929	13
Pennsylvania	18,426	19,068	19,667	20,024	228,879	8	218,328	8
Wisconsin	93,415	100,731	92,388	90,475	1,138,200	35	1,110,105	37
Other States ¹	83,040	90,481	90,356	90,456	1,009,346	48	915,227	48
United States	358,579	381,217	370,269	377,006	4,351,361	133	4,167,492	134
Atlantic	36,764	39,208	40,019	39,915	462,607	45	442,987	45
Central	121,548	131,439	120,310	118,165	1,460,851	53	1,395,750	56
West	200,267	210,570	209,940	218,926	2,427,903	35	2,328,755	33

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

Total Italian Cheese Production by Type – United States: 2017 and 2018

Type	2017	2018	2017 as percent of 2018
	(1,000 pounds)	(1,000 pounds)	(percent)
Hard			
Provolone and similars	393,792	397,786	1.0
Romano and similars	58,302	58,058	-0.4
Parmesan and similars	450,640	424,491	-5.8
Other hard	52,302	48,894	-6.5
Total hard	955,036	929,229	-2.7
Soft			
Mozzarella and similars	4,167,492	4,351,361	4.4
Ricotta and similars	245,912	249,461	1.4
Other soft	26,808	26,799	
Total soft	4,440,212	4,627,621	4.2
Total hard and soft	5,395,248	5,556,850	3.0

Total Italian Cheese Production by Type – Regions and United States: 2017 and 2018

Region	Hard types		Soft types		Total	
	2017	2018	2017	2018	2017	2018
	(1,000 lbs)	(1,000 lbs)	(1,000 lbs)	(1,000 lbs)	(1,000 lbs)	(1,000 lbs)
Atlantic	100,419	102,739	588,302	604,977	688,721	707,716
Central	686,278	662,111	1,515,763	1,588,070	2,202,041	2,250,181
West	168,339	164,379	2,336,147	2,434,574	2,504,486	2,598,953
United States	955,036	929,229	4,440,212	4,627,621	5,395,248	5,556,850

Miscellaneous Italian Cheese Production – States and United States: 2017 and 2018

State	Provolone		Romano		Parmesan	
	2017	2018	2017	2018	2017	2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Wisconsin	210,361	213,659	33,631	32,817	217,597	218,743
Other States ¹	183,431	184,127	24,671	25,241	233,043	205,748
United States	393,792	397,786	58,302	58,058	450,640	424,491

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

Swiss Cheese Production by Month – States and United States: 2018 and Total 2017-2018

State	2018							
	January (1,000 pounds)	February (1,000 pounds)	March (1,000 pounds)	April (1,000 pounds)	May (1,000 pounds)	June (1,000 pounds)	July (1,000 pounds)	August (1,000 pounds)
Ohio	13,777	12,406	13,767	12,952	13,829	13,404	13,708	14,033
Pennsylvania	766	610	732	717	819	824	853	857
Wisconsin	1,593	1,824	1,431	1,605	1,505	1,261	1,320	1,369
Other States ¹	12,047	11,510	12,755	11,554	12,663	12,274	12,314	11,625
United States	28,183	26,350	28,685	26,828	28,816	27,763	28,195	27,884

State	2018					2017		
	September (1,000 pounds)	October (1,000 pounds)	November (1,000 pounds)	December (1,000 pounds)	Total (1,000 pounds)	Plants (number)	Total (1,000 pounds)	Plants (number)
Ohio	13,862	13,960	14,068	12,973	162,739	13	154,865	13
Pennsylvania	706	732	695	661	8,972	9	10,360	11
Wisconsin	1,188	1,355	1,457	1,469	17,377	11	16,664	11
Other States ¹	10,658	11,343	11,668	12,804	143,215	30	134,765	28
United States	26,414	27,390	27,888	27,907	332,303	63	316,654	63

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

Hispanic Cheese Production by Month – States and United States: 2018 and Total 2017-2018

State	2018							
	January (1,000 pounds)	February (1,000 pounds)	March (1,000 pounds)	April (1,000 pounds)	May (1,000 pounds)	June (1,000 pounds)	July (1,000 pounds)	August (1,000 pounds)
California	11,377	10,365	11,810	11,219	12,033	12,203	11,338	12,583
Wisconsin	7,496	6,808	8,405	7,808	8,413	7,709	7,622	7,766
Other States ¹	5,159	4,618	5,396	5,088	5,799	5,815	5,749	6,664
United States	24,032	21,791	25,611	24,115	26,245	25,727	24,709	27,013

State	2018					2017		
	September (1,000 pounds)	October (1,000 pounds)	November (1,000 pounds)	December (1,000 pounds)	Total (1,000 pounds)	Plants (number)	Total (1,000 pounds)	Plants (number)
California	11,128	13,151	12,080	15,237	144,524	13	135,898	13
Wisconsin	7,175	8,764	8,302	7,127	93,395	15	90,982	12
Other States ¹	6,890	8,219	6,991	7,609	73,997	33	59,641	36
United States	25,193	30,134	27,373	29,973	311,916	61	286,521	61

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

Muenster Cheese Production by Month – States and United States: 2018 and Total 2017-2018

State	2018							
	January (1,000 pounds)	February (1,000 pounds)	March (1,000 pounds)	April (1,000 pounds)	May (1,000 pounds)	June (1,000 pounds)	July (1,000 pounds)	August (1,000 pounds)
Wisconsin	5,427	4,681	5,205	4,785	5,637	4,735	5,021	5,532
Other States ¹	9,708	9,265	9,705	11,077	11,213	11,299	12,935	10,479
United States	15,135	13,946	14,910	15,862	16,850	16,034	17,956	16,011

State	2018					2017		
	September (1,000 pounds)	October (1,000 pounds)	November (1,000 pounds)	December (1,000 pounds)	Total (1,000 pounds)	Plants (number)	Total (1,000 pounds)	Plants (number)
Wisconsin	5,070	5,838	4,877	5,063	61,871	20	61,690	19
Other States ¹	10,724	12,487	11,026	9,480	129,398	24	127,477	21
United States	15,794	18,325	15,903	14,543	191,269	44	189,167	40

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

Processed Cheeses and Combinations Production – United States: 2009-2018

Year	Processed cheese ¹		Processed cheese foods and spreads ²	
	Plants	Production	Plants	Production
	(number)	(1,000 pounds)	(number)	(1,000 pounds)
2009	26	1,210,653	29	897,333
2010	26	1,146,634	25	925,068
2011	26	1,183,092	25	935,978
2012	28	1,211,689	25	874,474
2013	27	1,200,849	23	822,652
2014	28	1,445,066	22	905,293
2015	26	1,488,683	27	873,337
2016	30	1,630,801	24	654,996
2017	30	1,751,137	23	596,506
2018	27	1,782,126	23	572,213

Year	Cold pack cheese and cheese foods ²		Total	
	Plants	Production	Plants	Production
	(number)	(1,000 pounds)	(number)	(1,000 pounds)
2009	14	90,025	48	2,198,011
2010	15	38,463	47	2,110,165
2011	14	39,121	46	2,158,191
2012	15	44,518	48	2,130,681
2013	16	43,407	47	2,066,908
2014	15	44,205	47	2,394,564
2015	15	37,893	48	2,399,913
2016	13	30,619	47	2,316,416
2017	14	34,605	50	2,382,248
2018	14	30,443	48	2,384,782

¹ Processed cheese is made by pasteurizing, emulsifying, and blending natural cheese and contains no other ingredients.

² Processed cheese foods, spreads, and cold pack contain additional ingredients such as nonfat milk solids, condiments, etc. These data exclude spreads made from Neufchatel and Cream Cheese.

Lowfat Cottage Cheese Production by Month – States, United States, and Regions: 2018 and Total 2017-2018

[Fat content less than 4 percent]

State and region	2018							
	January	February	March	April	May	June	July	August
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Colorado	895	925	955	741	706	707	720	922
New York	8,118	7,731	8,541	7,673	7,848	7,914	7,576	5,682
Ohio	873	1,047	986	863	1,113	1,073	1,034	1,116
Other States ¹	19,413	17,874	20,858	20,705	21,809	18,627	19,966	21,622
United States	29,299	27,577	31,340	29,982	31,476	28,321	29,296	29,342
Atlantic	8,582	8,156	9,030	8,031	8,310	8,379	7,977	6,159
Central	10,492	10,224	11,649	10,964	12,167	10,893	11,190	11,645
West	10,225	9,197	10,661	10,987	10,999	9,049	10,129	11,538

State and region	2018						2017	
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(number)	(1,000 pounds)	(number)
Colorado	699	771	784	654	9,479	3	9,592	3
New York	6,954	8,012	6,662	6,707	89,418	6	96,575	6
Ohio	1,117	1,099	1,011	939	12,271	5	12,421	5
Other States ¹	18,173	18,824	16,724	16,321	230,916	39	225,833	40
United States	26,943	28,706	25,181	24,621	342,084	53	344,421	54
Atlantic	7,358	8,431	7,073	7,043	94,529	10	102,065	10
Central	10,385	10,251	9,385	9,111	128,356	24	128,049	25
West	9,200	10,024	8,723	8,467	119,199	19	114,307	19

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

Creamed Cottage Cheese Production by Month – States, United States, and Regions: 2018 and Total 2017-2018

[Fat content more than 4 percent]

State and region	2018							
	January	February	March	April	May	June	July	August
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Colorado	641	509	519	535	515	597	642	597
Illinois	3,767	3,917	4,332	4,083	4,521	4,067	4,165	4,537
New York	7,311	6,949	8,482	6,980	8,469	8,073	7,158	7,893
Ohio	2,287	2,102	2,239	2,320	2,806	2,489	2,612	2,826
Oregon	118	107	123	118	139	115	124	140
Other States ¹	13,809	13,677	16,960	15,374	15,870	15,665	15,413	15,927
United States	27,933	27,261	32,655	29,410	32,320	31,006	30,114	31,920
Atlantic	8,274	7,784	9,456	7,744	9,498	8,969	7,991	8,936
Central	13,822	14,306	16,512	15,666	17,422	16,222	15,636	17,226
West	5,837	5,171	6,687	6,000	5,400	5,815	6,487	5,758

State and region	2018					2017		
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(number)	(1,000 pounds)	(number)
Colorado	512	591	544	483	6,685	3	6,732	3
Illinois	2,544	3,812	3,406	3,336	46,487	4	45,504	4
New York	6,831	8,012	6,796	7,262	90,216	7	83,684	6
Ohio	2,587	2,386	2,322	2,328	29,304	5	22,589	5
Oregon	110	138	110	110	1,452	3	1,330	3
Other States ¹	14,557	14,889	13,873	12,627	178,641	32	170,645	31
United States	27,141	29,828	27,051	26,146	352,785	54	330,484	52
Atlantic	7,651	9,029	7,588	7,971	100,891	10	94,243	9
Central	13,635	14,638	13,980	12,867	181,932	25	168,934	26
West	5,855	6,161	5,483	5,308	69,962	19	67,307	17

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

Cottage Cheese Curd Production by Month – States, United States, and Regions: 2018 and Total 2017-2018

[Mostly used for processing into fully creamed or lowfat cottage cheese. Cottage cheese curd and creamed and lowfat cottage cheese should not be added together to obtain total production]

State and region	2018							
	January	February	March	April	May	June	July	August
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	3,565	3,619	3,949	3,926	4,204	3,617	4,015	4,147
New York	8,883	8,231	9,661	8,350	9,595	8,834	8,427	9,441
Ohio	1,700	1,755	1,832	1,775	2,028	1,994	1,910	1,998
Oregon	145	174	164	154	197	164	176	213
Other States ¹	18,367	17,766	20,410	19,148	20,344	19,740	20,178	20,501
United States	32,660	31,545	36,016	33,353	36,368	34,349	34,706	36,300
Atlantic	9,985	9,262	10,799	9,245	10,770	9,855	9,443	10,605
Central	14,585	15,034	17,355	16,505	18,205	16,713	16,577	17,594
West	8,090	7,249	7,862	7,603	7,393	7,781	8,686	8,101

State and region	2018					2017		
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(number)	(1,000 pounds)	(number)
Illinois	3,924	3,648	3,403	3,437	45,454	4	35,872	3
New York	8,017	9,181	8,305	7,855	104,780	8	103,430	7
Ohio	1,937	1,806	1,649	1,709	22,093	5	19,802	5
Oregon	177	170	185	179	2,098	3	2,133	3
Other States ¹	18,955	18,658	17,531	16,339	227,937	34	229,172	35
United States	33,010	33,463	31,073	29,519	402,362	54	390,409	53
Atlantic	8,967	10,274	9,257	8,715	117,177	13	115,813	12
Central	15,539	14,880	14,336	13,470	190,793	26	175,829	26
West	8,504	8,309	7,480	7,334	94,392	15	98,767	15

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

Sour Cream Production by Month – States, United States, and Regions: 2018 and Total 2017-2018

State and region	2018							
	January (1,000 pounds)	February (1,000 pounds)	March (1,000 pounds)	April (1,000 pounds)	May (1,000 pounds)	June (1,000 pounds)	July (1,000 pounds)	August (1,000 pounds)
California	16,772	13,826	16,364	15,840	15,411	16,079	16,226	16,587
Illinois	4,243	3,046	3,519	3,837	3,813	3,401	3,152	3,876
New York	22,767	18,405	21,813	21,068	24,543	22,275	20,562	22,162
Ohio	17,872	14,106	17,371	16,895	17,959	18,798	17,496	19,183
Oregon	1,563	1,145	1,494	1,355	1,794	1,577	948	1,380
Pennsylvania	119	127	152	150	136	185	133	136
Other States ¹	56,929	48,310	55,652	52,190	55,565	51,791	51,303	56,003
United States	120,265	98,965	116,365	111,335	119,221	114,106	109,820	119,327
Atlantic	25,675	20,930	24,574	23,891	27,569	25,128	23,252	25,271
Central	59,812	49,545	58,025	55,212	59,447	57,606	56,483	61,556
West	34,778	28,490	33,766	32,232	32,205	31,372	30,085	32,500

State and region	2018					2017		
	September (1,000 pounds)	October (1,000 pounds)	November (1,000 pounds)	December (1,000 pounds)	Total (1,000 pounds)	Plants (number)	Total (1,000 pounds)	Plants (number)
California	14,953	17,672	17,548	15,451	192,729	21	195,279	20
Illinois	3,396	3,834	4,098	3,672	43,887	5	53,245	5
New York	20,148	24,291	25,872	23,696	267,602	13	270,446	9
Ohio	18,005	22,201	23,353	23,217	226,456	10	178,210	10
Oregon	1,384	1,526	1,485	1,271	16,922	6	16,797	6
Pennsylvania	121	137	82	92	1,570	8	2,037	8
Other States ¹	49,907	59,222	58,329	59,044	654,245	52	671,135	54
United States	107,914	128,883	130,767	126,443	1,403,411	115	1,387,149	112
Atlantic	22,977	27,764	29,064	26,566	302,661	32	305,508	27
Central	54,685	65,771	66,024	66,276	710,442	43	679,417	45
West	30,252	35,348	35,679	33,601	390,308	40	402,224	40

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

Butter Production by Month – States, United States, and Regions: 2018 and Total 2017-2018

State and region	2018							
	January	February	March	April	May	June	July	August
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
California	53,872	51,769	59,004	53,467	50,671	44,460	42,726	41,451
New York	2,131	2,660	2,618	2,219	2,688	1,564	1,373	1,398
Pennsylvania	8,860	7,388	8,055	8,583	8,602	6,619	6,902	5,427
Other States ¹	117,280	105,852	112,170	110,947	108,161	89,479	83,563	85,295
United States	182,143	167,669	181,847	175,216	170,122	142,122	134,564	133,571
Atlantic	19,608	17,415	19,394	19,059	18,453	13,684	12,167	11,652
Central	75,753	72,013	71,317	73,568	70,767	57,388	51,902	53,954
West	86,782	78,241	91,136	82,589	80,902	71,050	70,495	67,965

State and region	2018						2017	
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(number)	(1,000 pounds)	(number)
California	44,135	46,082	43,483	47,504	578,624	12	534,378	13
New York	1,604	2,042	1,977	2,414	24,688	11	27,581	8
Pennsylvania	4,589	6,483	7,915	6,639	86,062	6	92,329	7
Other States ¹	84,713	94,289	96,053	113,831	1,201,633	69	1,193,185	69
United States	135,041	148,896	149,428	170,388	1,891,007	98	1,847,473	97
Atlantic	10,386	13,476	14,828	16,700	186,822	39	200,011	37
Central	53,711	59,549	63,035	74,627	777,584	35	781,854	35
West	70,944	75,871	71,565	79,061	926,601	24	865,608	25

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

Yogurt (Plain and Flavored) Production by Month – States, United States, and Regions: 2018 and Total 2017-2018

State and region	2018							
	January (1,000 pounds)	February (1,000 pounds)	March (1,000 pounds)	April (1,000 pounds)	May (1,000 pounds)	June (1,000 pounds)	July (1,000 pounds)	August (1,000 pounds)
California	36,865	33,974	36,804	36,347	35,806	35,249	35,582	40,388
New York	60,863	61,345	62,204	55,258	62,880	57,855	54,282	63,717
Oregon	4,439	4,016	3,590	3,651	4,187	3,596	3,437	3,337
Texas	3,059	2,725	2,754	2,791	2,934	2,810	2,547	3,114
Other States ¹	266,789	274,650	284,496	260,113	267,624	273,569	265,038	285,740
United States	372,015	376,710	389,848	358,160	373,431	373,079	360,886	396,296
Atlantic	113,390	114,780	119,671	107,481	120,390	112,473	108,795	119,757
Central	146,053	157,283	164,902	151,023	146,725	159,742	151,742	163,147
West	112,572	104,647	105,275	99,656	106,316	100,864	100,349	113,392
State and region	2018					2017		
	September (1,000 pounds)	October (1,000 pounds)	November (1,000 pounds)	December (1,000 pounds)	Total (1,000 pounds)	Plants (number)	Total (1,000 pounds)	Plants (number)
California	34,454	34,191	28,289	27,106	415,055	20	442,423	20
New York	52,497	57,905	49,526	51,961	690,293	38	706,923	39
Oregon	2,775	3,503	2,779	2,443	41,753	3	49,157	3
Texas	2,650	2,677	1,230	2,278	31,569	3	34,323	3
Other States ¹	277,613	264,852	229,024	259,910	3,209,418	98	3,245,378	105
United States	369,989	363,128	310,848	343,698	4,388,088	162	4,478,204	170
Atlantic	105,711	112,669	100,506	101,993	1,337,616	87	1,355,387	89
Central	167,093	153,170	128,463	158,169	1,847,512	38	1,843,317	43
West	97,185	97,289	81,879	83,536	1,202,960	37	1,279,500	38

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

Unsweetened Condensed Skim Milk Bulk Production by Month – States, United States, and Regions: 2018 and Total 2017-2018

State and region	2018							
	January	February	March	April	May	June	July	August
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
California	21,098	22,256	26,984	24,743	25,222	24,000	29,447	32,004
New York	5,843	5,944	7,095	9,078	11,504	11,621	9,396	8,367
Other States ¹	81,892	83,984	99,642	97,588	103,681	102,811	104,896	98,091
United States	108,833	112,184	133,721	131,409	140,407	138,432	143,739	138,462
Atlantic	21,539	29,762	33,314	34,718	34,505	34,046	35,377	35,883
Central	58,906	52,191	66,808	63,726	72,092	73,964	71,781	64,539
West	28,388	30,231	33,599	32,965	33,810	30,422	36,581	38,040
State and region	2018						2017	
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(number)	(1,000 pounds)	(number)
California	27,651	24,099	19,876	11,828	289,208	10	308,168	9
New York	8,006	8,361	5,146	4,928	95,289	5	116,213	5
Other States ¹	84,423	78,440	75,385	73,044	1,083,877	27	1,146,438	29
United States	120,080	110,900	100,407	89,800	1,468,374	42	1,570,819	43
Atlantic	27,515	26,733	19,243	19,133	351,768	12	398,334	13
Central	59,134	55,180	55,315	53,052	746,688	14	738,354	15
West	33,431	28,987	25,849	17,615	369,918	16	434,131	15

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

Nonfat Dry Milk (Human) Production by Month – States, United States, and Regions: 2018 and Total 2017-2018

State and region	2018							
	January	February	March	April	May	June	July	August
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
California	57,858	54,904	69,665	58,724	54,218	43,010	37,937	35,668
Pennsylvania	15,221	14,273	18,120	18,765	19,173	17,318	16,993	13,100
Other States ¹	86,193	87,928	90,195	91,939	92,279	91,916	95,263	80,309
United States	159,272	157,105	177,980	169,428	165,670	152,244	150,193	129,077
Atlantic	24,683	26,589	36,202	36,041	37,639	34,301	34,223	28,809
Central	32,199	28,942	26,181	33,177	27,335	34,477	29,591	25,041
West	102,390	101,574	115,597	100,210	100,696	83,466	86,379	75,227

State and region	2018						2017	
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(number)	(1,000 pounds)	(number)
California	38,440	44,897	44,914	46,824	587,059	12	562,017	11
Pennsylvania	9,585	10,795	15,806	12,009	181,158	6	183,766	4
Other States ¹	66,005	65,903	73,704	83,689	1,005,323	38	1,089,494	37
United States	114,030	121,595	134,424	142,522	1,773,540	56	1,835,277	52
Atlantic	21,003	22,590	28,371	27,766	358,217	14	359,715	11
Central	18,504	19,458	24,554	32,323	331,782	17	357,246	17
West	74,523	79,547	81,499	82,433	1,083,541	25	1,118,316	24

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

Dry Buttermilk (Total) Production by Month – States and United States: 2018 and Total 2017-2018

State	2018							
	January	February	March	April	May	June	July	August
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
California	5,104	4,697	5,235	4,892	4,312	4,232	3,714	3,602
Other States ¹	7,991	6,782	7,112	5,226	6,570	3,371	4,090	4,000
United States	13,095	11,479	12,347	10,118	10,882	7,603	7,804	7,602
State	2018						2017	
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(number)	(1,000 pounds)	(number)
California	3,977	4,549	4,109	4,397	52,820	6	46,944	6
Other States ¹	4,147	5,523	5,813	4,630	65,255	18	65,960	18
United States	8,124	10,072	9,922	9,027	118,075	24	112,904	24

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

Dry Whey (Human) Production by Month – States, United States, and Regions: 2018 and Total 2017-2018

State and region	2018							
	January	February	March	April	May	June	July	August
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
New York	11,936	10,827	12,118	12,982	12,624	12,738	12,612	12,208
Wisconsin	30,183	28,782	32,666	29,501	28,396	27,437	25,487	25,102
Other States ¹	46,904	49,065	45,071	42,019	42,711	44,766	49,783	40,255
United States	89,023	88,674	89,855	84,502	83,731	84,941	87,882	77,565
Atlantic	21,708	19,310	21,922	22,354	22,255	22,229	22,253	21,829
Central	42,747	39,990	45,747	41,020	40,293	38,270	36,613	34,838
West	24,568	29,374	22,186	21,128	21,183	24,442	29,016	20,898
State and region	2018						2017	
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(number)	(1,000 pounds)	(number)
New York	11,233	10,996	11,560	11,640	143,474	5	141,976	5
Wisconsin	23,254	23,125	21,995	23,819	319,747	10	345,567	10
Other States ¹	34,551	48,101	37,480	37,737	518,443	15	519,603	16
United States	69,038	82,222	71,035	73,196	981,664	30	1,007,146	31
Atlantic	20,399	20,621	21,193	21,350	257,423	7	251,993	7
Central	32,320	32,467	31,017	33,232	448,554	16	486,768	16
West	16,319	29,134	18,825	18,614	275,687	7	268,385	8

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

Ice Cream, Regular (Hard) Production by Month – States, United States, and Regions: 2018 and Total 2017-2018

[Contains minimum milkfat content of 10 percent and not less than 4.5 pounds per gallon]

State and region	2018							
	January	February	March	April	May	June	July	August
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
California	4,800	4,762	6,480	5,606	6,165	6,785	7,389	7,264
Connecticut	913	998	1,256	1,103	1,255	1,002	1,048	1,187
Missouri	2,963	3,460	3,811	3,193	3,266	3,889	3,308	3,397
New Jersey	70	102	138	202	99	112	108	74
New York	2,225	2,032	2,134	2,640	2,585	2,795	3,053	3,056
Ohio	2,019	2,084	2,227	2,513	2,608	2,578	2,831	2,810
Oregon	905	974	1,222	1,369	1,449	1,377	1,450	1,282
Pennsylvania	2,858	2,010	3,138	3,249	3,623	3,530	3,530	3,531
Tennessee	1,824	1,757	2,200	1,603	1,972	2,407	1,975	2,313
Utah	2,238	2,461	2,849	2,854	3,109	3,033	2,839	2,736
Wisconsin	899	806	888	872	1,040	1,224	1,069	942
Other States ¹	31,970	34,001	37,210	37,617	37,380	41,531	40,366	41,519
United States	53,684	55,447	63,553	62,821	64,551	70,263	68,966	70,111
Atlantic	12,231	11,704	13,996	14,227	14,810	14,795	14,761	15,368
Central	31,724	33,686	36,967	36,640	36,805	42,174	40,379	41,364
West	9,729	10,057	12,590	11,954	12,936	13,294	13,826	13,379

State and region	2018					2017		
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(number)	(1,000 gallons)	(number)
California	5,407	5,545	3,684	2,441	66,328	21	73,643	22
Connecticut	889	1,220	951	792	12,614	17	12,206	17
Missouri	3,030	2,844	2,243	1,946	37,350	5	32,404	6
New Jersey	74	58	77	69	1,183	27	1,390	26
New York	2,411	2,392	2,035	2,189	29,547	29	38,422	31
Ohio	2,112	2,307	1,935	1,960	27,984	30	26,122	31
Oregon	1,100	1,111	997	1,144	14,380	7	12,104	6
Pennsylvania	1,561	3,232	3,585	3,748	37,595	33	41,064	29
Tennessee	1,674	1,905	1,648	1,426	22,704	3	25,711	3
Utah	2,242	2,317	2,096	893	29,667	9	26,283	9
Wisconsin	624	611	453	370	9,798	27	19,211	28
Other States ¹	35,477	37,068	28,366	26,877	429,382	192	422,602	200
United States	56,601	60,610	48,070	43,855	718,532	400	731,162	408
Atlantic	11,432	13,828	12,314	11,213	160,679	194	163,715	196
Central	34,253	35,638	26,981	26,017	422,628	153	429,482	158
West	10,916	11,144	8,775	6,625	135,225	53	137,965	54

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

Ice Cream Mix, Regular Production by Month – States, United States, and Regions: 2018 and Total 2017-2018

State and region	2018							
	January	February	March	April	May	June	July	August
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
California	4,113	4,382	4,920	5,119	5,377	5,563	5,633	5,660
Connecticut	408	435	568	496	585	465	500	557
Illinois	1,868	2,069	2,314	2,196	2,691	2,717	2,902	2,900
Indiana	2,189	2,133	2,023	2,010	2,033	2,117	1,951	2,146
Missouri	2,022	2,351	2,709	2,319	2,456	2,812	2,559	2,410
New Jersey	173	210	338	206	391	485	374	342
New York	1,231	1,160	1,244	1,460	1,436	1,581	1,538	1,538
Ohio	1,022	1,052	1,136	1,259	1,381	1,376	1,467	1,449
Oregon	487	561	684	750	810	737	765	696
Pennsylvania	1,503	1,125	1,735	1,969	2,079	2,067	2,049	2,016
Wisconsin	838	801	980	945	1,194	1,206	1,203	1,017
Other States ¹	16,743	18,095	19,987	20,794	20,753	22,972	22,579	22,715
United States	32,597	34,374	38,638	39,523	41,186	44,098	43,520	43,446
Atlantic	7,046	7,060	8,464	8,799	9,153	9,467	9,279	9,294
Central	18,546	19,955	21,908	21,980	22,874	25,359	24,989	25,070
West	7,005	7,359	8,266	8,744	9,159	9,272	9,252	9,082
State and region	2018						2017	
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(number)	(1,000 gallons)	(number)
California	3,688	4,099	3,070	2,592	54,216	23	58,174	24
Connecticut	430	551	433	354	5,782	7	9,150	7
Illinois	2,424	2,501	1,723	1,857	28,162	11	33,710	10
Indiana	1,630	1,773	1,271	809	22,085	8	22,365	8
Missouri	2,109	2,104	1,688	1,426	26,965	7	22,000	6
New Jersey	261	227	185	202	3,394	7	3,268	4
New York	1,266	1,201	1,134	1,033	15,822	15	20,289	19
Ohio	1,064	1,089	952	931	14,178	15	13,477	15
Oregon	578	592	531	585	7,776	7	7,043	7
Pennsylvania	942	1,751	1,927	1,937	21,100	22	23,032	22
Wisconsin	747	733	576	522	10,762	13	15,563	13
Other States ¹	19,499	19,834	15,833	14,446	234,250	128	224,513	129
United States	34,638	36,455	29,323	26,694	444,492	263	452,584	264
Atlantic	7,123	8,031	7,145	6,178	97,039	91	105,123	94
Central	20,782	21,268	16,279	15,516	254,526	118	251,235	115
West	6,733	7,156	5,899	5,000	92,927	54	96,226	55

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

Ice Cream, Lowfat (Total) Production by Month – States, United States and Regions: 2018 and Total 2017-2018

[Includes hard, soft-serve, and freezer-made milkshake. Contains less than 10 percent milkfat required for ice cream]

State and region	2018						
	January	February	March	April	May	June	July
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
California	2,661	3,773	3,891	3,987	3,876	3,916	3,773
Illinois	2,175	2,252	2,691	2,950	2,895	2,908	1,914
Ohio	1,780	2,362	2,571	2,628	2,921	2,759	2,526
Pennsylvania	399	420	566	606	779	738	1,282
Texas	1,325	1,212	1,761	2,059	2,112	2,276	1,657
Other States ¹	24,228	24,804	29,628	28,570	29,888	32,874	31,181
United States	32,568	34,823	41,108	40,800	42,471	45,471	42,333
Atlantic	6,799	6,204	7,110	7,387	7,634	8,044	8,586
Central	20,922	22,681	27,533	26,456	28,110	30,495	26,846
West	4,847	5,938	6,465	6,957	6,727	6,932	6,901

State and region	2018						2017
	August	September	October	November	December	Total	Total
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
California	3,791	3,105	3,797	3,239	3,176	42,985	25,272
Illinois	2,788	2,516	2,452	1,919	1,780	29,240	31,714
Ohio	2,640	2,056	2,099	1,626	1,649	27,617	26,952
Pennsylvania	1,221	744	1,063	458	368	8,644	6,935
Texas	1,304	1,629	1,528	1,290	1,376	19,529	21,981
Other States ¹	29,998	24,857	25,668	21,589	19,803	323,088	348,560
United States	41,742	34,907	36,607	30,121	28,152	451,103	461,414
Atlantic	7,598	5,470	7,495	5,136	4,879	82,342	105,368
Central	27,263	23,522	22,839	19,409	17,753	293,829	297,454
West	6,881	5,915	6,273	5,576	5,520	74,932	58,592

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

Ice Cream Mix, Lowfat Production by Month – States, United States, and Regions: 2018 and Total 2017-2018

[Includes milkshake mix]

State and region	2018							
	January	February	March	April	May	June	July	August
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
California	1,771	2,161	2,218	2,366	2,340	2,317	2,319	2,265
Indiana	1,000	1,261	1,624	1,379	1,432	1,558	1,558	1,578
Massachusetts	190	195	275	254	352	410	379	195
Michigan	1,150	1,401	1,656	1,647	2,253	1,907	1,883	1,933
New Jersey	462	457	501	516	592	511	509	502
Ohio	370	563	605	818	1,131	1,033	963	901
Pennsylvania	188	223	323	370	472	432	594	569
Texas	636	514	767	822	872	915	531	408
Utah	120	81	100	113	90	118	113	123
Other States ¹	12,436	12,611	16,027	15,400	16,525	17,956	17,326	16,509
United States	18,323	19,467	24,096	23,685	26,059	27,157	26,175	24,983
Atlantic	3,527	3,535	4,406	4,467	4,677	4,958	5,453	4,664
Central	11,898	12,607	16,046	15,238	17,461	18,227	16,655	16,325
West	2,898	3,325	3,644	3,980	3,921	3,972	4,067	3,994

State and region	2018					2017		
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(number)	(1,000 gallons)	(number)
California	1,812	2,059	1,661	1,627	24,916	15	15,819	13
Indiana	1,220	1,319	956	841	15,726	7	17,908	7
Massachusetts	119	104	81	63	2,617	4	3,252	3
Michigan	1,470	1,454	1,134	874	18,762	7	13,047	7
New Jersey	408	443	315	339	5,555	3	4,560	3
Ohio	610	572	350	378	8,294	11	7,392	11
Pennsylvania	365	436	234	176	4,382	10	3,870	10
Texas	615	623	535	523	7,761	9	8,975	10
Utah	100	73	70	60	1,161	4	1,359	4
Other States ¹	13,066	13,716	11,699	10,413	173,684	87	166,968	88
United States	19,785	20,799	17,035	15,294	262,858	157	243,150	156
Atlantic	3,323	4,307	3,058	2,692	49,067	43	41,280	42
Central	13,162	13,092	11,072	9,759	171,542	76	168,044	78
West	3,300	3,400	2,905	2,843	42,249	38	33,826	36

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

Sherbet (Hard) Production by Month – United States and Regions: 2018 and Total 2017-2018

State and region	2018							
	January	February	March	April	May	June	July	August
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
United States	2,858	3,112	3,368	3,578	3,513	3,563	3,151	3,255
Atlantic	796	588	861	807	709	801	780	698
Central	1,423	1,866	1,691	1,864	1,820	1,924	1,603	1,877
West	639	658	816	907	984	838	768	680
State and region	2018						2017	
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(number)	(1,000 gallons)	(number)
United States	3,084	2,978	2,341	2,100	36,901	132	38,561	141
Atlantic	709	803	571	542	8,665	56	8,422	61
Central	1,534	1,622	1,359	1,229	19,812	49	20,968	54
West	841	553	411	329	8,424	27	9,171	26

Sherbet Mix Production by Month – States, United States and Regions: 2018 and Total 2017-2018

State and region	2018							
	January	February	March	April	May	June	July	August
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
California	100	122	142	149	221	139	176	173
Ohio	99	110	114	102	144	115	82	119
Pennsylvania	42	27	50	62	63	64	61	52
Texas	59	71	94	115	110	60	136	193
Utah	104	122	77	114	115	104	103	101
Wisconsin	8	15	19	16	21	28	21	18
Other States ¹	1,490	1,669	1,701	1,741	1,662	1,859	1,494	1,577
United States	1,902	2,136	2,197	2,299	2,336	2,369	2,073	2,233
Atlantic	478	377	531	446	443	471	480	438
Central	1,024	1,338	1,158	1,275	1,279	1,365	1,083	1,350
West	400	421	508	578	614	533	510	445
State and region	2018						2017	
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(number)	(1,000 gallons)	(number)
California	157	158	96	74	1,707	9	2,256	10
Ohio	109	113	86	90	1,283	8	1,146	8
Pennsylvania	57	41	43	42	604	8	629	7
Texas	58	61	57	51	1,065	5	835	5
Utah	72	47	44	46	1,049	5	951	5
Wisconsin	14	16	16	9	201	4	316	5
Other States ¹	1,559	1,466	1,272	1,133	18,623	65	19,948	69
United States	2,026	1,902	1,614	1,445	24,532	104	26,081	109
Atlantic	418	428	350	348	5,208	37	5,128	38
Central	1,077	1,127	1,007	883	13,966	42	15,097	46
West	531	347	257	214	5,358	25	5,856	25

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

Frozen Yogurt Mix Production by Month – United States and Regions: 2018 and Total 2017-2018

State and region	2018						
	January	February	March	April	May	June	July
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
United States	2,509	2,520	3,230	3,029	2,886	2,992	2,560
Atlantic	319	298	499	482	359	459	426
Central	868	806	1,032	909	1,066	978	906
West	1,322	1,416	1,699	1,638	1,461	1,555	1,228
State and region	2018						2017
	August	September	October	November	December	Total	Total
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
United States	2,445	2,323	2,013	2,070	2,023	30,600	34,441
Atlantic	257	334	306	247	344	4,330	3,953
Central	873	894	807	790	732	10,661	12,497
West	1,315	1,095	900	1,033	947	15,609	17,991

Water and Juice Ices Production by Month – United States and Regions: 2018 and Total 2017-2018

[Does not include counter-freezer production]

State and region	2018							
	January	February	March	April	May	June	July	August
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
United States	4,194	5,108	6,455	6,464	6,592	7,472	6,964	6,230
Atlantic	1,312	1,864	2,391	2,469	2,675	2,958	3,328	2,703
Central	2,205	2,484	2,999	2,932	2,901	3,473	2,805	2,580
West	677	760	1,065	1,063	1,016	1,041	831	947
State and region	2018						2017	
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(number)	(1,000 gallons)	(number)
United States	5,293	4,698	4,228	3,029	66,727	108	64,723	115
Atlantic	2,176	1,738	1,683	1,220	26,517	50	26,819	58
Central	2,347	2,252	1,996	1,448	30,422	42	28,510	42
West	770	708	549	361	9,788	16	9,394	15

Other Frozen Dairy Products Production by Month – United States and Regions: 2018 and Total 2017-2018

State and region	2018							
	January	February	March	April	May	June	July	August
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
United States	1,935	1,543	1,761	2,105	1,951	2,086	2,507	2,010
Atlantic	221	314	314	437	421	448	565	411
Central	1,684	1,225	1,436	1,633	1,514	1,622	1,923	1,575
West	30	4	11	35	16	16	19	24
State and region	2018						2017	
	September	October	November	December	Total	Plants	Total	Plants
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(number)	(1,000 gallons)	(number)
United States	1,881	1,960	1,040	1,014	21,793	53	22,552	58
Atlantic	378	446	321	268	4,544	28	5,923	30
Central	1,471	1,494	694	723	16,994	23	16,308	26
West	32	20	25	23	255	2	321	2

Dairy Plants Manufacturing One or More Dairy Products – States, United States, and Region: 2014-2018

State and	2014	2015	2016	2017	2018
	(number)	(number)	(number)	(number)	(number)
Alabama	4	4	4	4	4
Alaska	1	1	1	1	-
Arizona	8	8	8	8	8
Arkansas	2	1	1	1	2
California	116	117	118	113	115
Colorado	9	7	7	7	7
Connecticut	27	27	28	28	28
Delaware	3	6	7	7	6
Florida	55	58	56	58	51
Georgia	6	6	7	8	6
Hawaii	6	6	6	6	6
Idaho	17	17	17	17	17
Illinois	35	35	36	35	35
Indiana	18	19	18	19	18
Iowa	22	21	22	22	23
Kansas	6	6	6	7	7
Kentucky	14	14	14	14	14
Louisiana	4	4	4	3	2
Maine	21	25	28	28	26
Maryland	8	12	13	14	11
Massachusetts	34	37	40	40	39
Michigan	51	52	51	51	50
Minnesota	32	32	31	31	31
Mississippi	1	1	1	1	1
Missouri	13	17	17	16	15
Montana	7	7	7	7	7
Nebraska	7	7	7	8	8
Nevada	4	4	4	4	4
New Hampshire	10	10	10	10	11
New Jersey	57	51	51	50	48
New Mexico	6	6	6	6	6
New York	124	125	130	130	122
North Carolina	14	13	13	13	13
North Dakota	2	2	2	2	2
Ohio	69	66	65	66	65
Oklahoma	8	8	8	6	4
Oregon	20	19	19	20	19
Pennsylvania	84	81	79	86	88
Rhode Island	4	4	4	4	4
South Carolina	2	2	2	2	2
South Dakota	9	9	9	9	9
Tennessee	11	12	12	12	12
Texas	48	44	43	43	38
Utah	21	20	20	20	20
Vermont	35	35	51	49	56
Virginia	1	1	1	1	1
Washington	10	10	10	10	10
West Virginia	1	1	2	2	2
Wisconsin	202	203	202	206	200
Wyoming	-	-	-	-	-
United States	1,269	1,273	1,298	1,305	1,273
Atlantic	486	494	522	530	514
Central	558	557	553	556	540
West	225	222	223	219	219

- Represents zero.



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

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

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

Statistical Methodology

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

Sampling frames and sample size: In 2018, there were 1,273 manufacturers that produced one or more dairy products. In states with small numbers of plants, reports are received from all plants each month. In states with large numbers of plants, survey procedures are designed to obtain monthly reports from all large plants and from a sample of small plants. In some states, the State Departments of Agriculture assist in collection of data, which eliminates duplicate reporting and reduces respondent burden.

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

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

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

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

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

Information Contacts

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

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- 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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