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Dairy Products 2023 Summary

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USDA



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Summary

Total cheese production, excluding cottage cheeses, was 14.2 billion pounds, 0.9 percent above 2022 production. Wisconsin was the leading State with 24.7 percent of the production.

Italian varieties, with 5.85 billion pounds was 0.8 percent below 2022 production and accounted for 41.2 percent of total cheese in 2023. Mozzarella accounted for 78.7 percent of the Italian production followed by Parmesan with 8.3 percent and Provolone with 6.4 percent. Wisconsin was the leading State in Italian cheese production with 28.6 percent of the production.

American type cheese production was 5.84 billion pounds, 3.0 percent above 2022 and accounted for 41.1 percent of total cheese in 2023. Wisconsin was the leading State in American type cheese production with 18.8 percent of the production.

Butter production in the United States during 2023 totaled 2.12 billion pounds, 2.7 percent above 2022. California was the leading state in Butter production with 32.2 percent of the production.

Dry milk powders (2023 United States production, comparisons in percentage with 2022)

Nonfat dry milk, human - 1.87 billion pounds, down 4.4 percent.

Skim milk powders - 695 million pounds, up 5.6 percent.

Whey products (2023 United States production, comparisons in percentage with 2022)

Dry whey, total - 938 million pounds, up 2.5 percent.

Lactose, human and animal - 1.11 billion pounds, down 0.6 percent.

Whey protein concentrate, total - 502 million pounds, up 11.3 percent.

Frozen products (2023 United States production, comparisons in percentage with 2022)

Ice cream, Regular (total) - 849 million gallons, down 8.2 percent.

Ice cream, Lowfat (total) - 451 million gallons, up 1.2 percent.

Sherbet (total) - 27.9 million gallons, down 14.9 percent.

Frozen Yogurt (total) - 42.4 million gallons, up 11.1 percent.

Dairy Products Production by Product and Month – United States: 2022

Products	Plants	January	February	March	April
	(number)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Butter	95	196,236	183,332	202,210	181,304
Cheese					
American types	245	487,601	438,928	485,339	479,868
Cheddar	234	344,587	306,330	333,479	327,153
Other American ¹	133	143,014	132,598	151,860	152,715
Blue and Gorgonzola	42	9,189	8,155	7,575	7,859
Brick	15	163	74	127	136
Cream and Neufchatel	27	94,369	88,105	104,684	89,417
Feta	43	9,747	9,380	12,109	12,432
Gouda	93	6,327	5,444	7,064	5,416
Hispanic	62	28,218	31,127	32,743	29,053
Italian types	194	485,649	457,297	519,270	491,096
Mozzarella	126	376,551	356,609	408,189	386,582
Parmesan	44	44,149	42,069	43,696	40,474
Provolone	36	29,733	27,717	30,826	29,552
Ricotta	54	21,475	18,680	23,093	21,028
Romano	25	5,749	4,988	4,630	5,393
Other Italian types	55	7,992	7,234	8,836	8,067
Muenster	43	15,979	15,024	16,380	17,563
Swiss	64	31,197	28,116	31,558	30,394
All other types	203	13,744	12,809	16,910	13,000
Total cheese ²	519	1,182,183	1,094,459	1,233,759	1,176,234
Cottage cheese, curd ³	48	29,324	29,768	31,853	29,363
Cottage cheese, creamed ⁴	49	27,872	28,301	29,527	26,629
Cottage cheese, lowfat ⁵	43	24,194	24,674	26,571	24,821
Sour cream	98	124,280	116,771	126,440	116,700
Yogurt, plain and flavored	156	360,857	364,814	416,507	361,900

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2022 (continued)

Products	May	June	July	August	September
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Butter	179,813	158,979	151,756	142,962	140,553
Cheese					
American types	490,065	468,522	476,511	460,532	449,342
Cheddar	339,680	341,603	340,215	318,095	305,132
Other American ¹	150,385	126,919	136,296	142,437	144,210
Blue and Gorgonzola	7,797	8,009	7,034	7,361	7,217
Brick	171	147	89	110	93
Cream and Neufchatel	103,490	96,800	93,853	85,429	90,989
Feta	12,047	12,206	11,191	12,522	15,544
Gouda	5,700	5,986	4,251	4,335	4,080
Hispanic	31,170	32,255	33,313	35,076	32,962
Italian types	496,917	485,579	488,754	486,721	496,479
Mozzarella	389,807	386,714	392,373	383,865	389,854
Parmesan	37,846	38,018	37,707	38,286	40,750
Provolone	36,822	29,303	29,325	32,261	31,195
Ricotta	20,285	18,681	17,455	20,441	21,158
Romano	4,087	4,770	4,470	4,718	5,284
Other Italian types	8,070	8,093	7,424	7,150	8,238
Muenster	15,702	16,977	16,073	15,405	15,335
Swiss	30,632	28,962	28,619	27,873	26,537
All other types	12,799	12,897	12,913	13,278	14,587
Total cheese ²	1,206,490	1,168,340	1,172,601	1,148,642	1,153,165
Cottage cheese, curd ³	29,226	30,077	30,751	33,425	31,810
Cottage cheese, creamed ⁴	27,362	29,366	28,727	31,436	29,634
Cottage cheese, lowfat ⁵	23,930	24,359	24,826	27,427	25,420
Sour cream	125,804	123,165	115,623	127,030	121,170
Yogurt, plain and flavored	386,598	376,531	366,742	387,546	382,914

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2022 (continued)

Products	October	November	December	Total	2022 as percent of 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)
Butter	162,115	171,463	188,020	2,058,743	-0.2
Cheese					
American types ¹	479,083	468,546	488,145	5,672,482	1.0
Cheddar	340,213	323,768	343,207	3,963,462	-0.2
Other American	138,870	144,778	144,938	1,709,020	3.9
Blue and Gorgonzola	7,495	7,744	6,577	92,012	3.7
Brick	112	138	109	1,469	-26.9
Cream and Neufchatel	92,432	86,713	92,166	1,118,447	9.0
Feta	14,549	9,758	9,821	141,306	-16.5
Gouda	3,559	5,221	5,057	62,440	10.9
Hispanic	33,913	33,848	32,630	386,308	9.7
Italian types	499,221	488,732	508,710	5,904,425	2.4
Mozzarella	395,547	384,176	400,966	4,651,233	3.4
Parmesan	38,269	41,034	42,877	485,175	-0.1
Provolone	32,348	31,081	29,228	369,391	-2.4
Ricotta	21,002	20,197	22,701	246,196	-1.7
Romano	4,123	4,407	4,355	56,974	-15.8
Other Italian types	7,932	7,837	8,583	95,456	6.5
Muenster	16,377	15,610	15,219	191,644	0.1
Swiss	26,959	29,491	30,519	350,857	6.3
All other types	14,581	12,591	12,983	163,092	1.1
Total cheese ²	1,188,281	1,158,392	1,201,936	14,084,482	2.4
Cottage cheese, curd ³	29,255	28,464	29,037	362,353	1.1
Cottage cheese, creamed ⁴	27,832	28,478	29,136	344,300	1.7
Cottage cheese, lowfat ⁵	23,911	22,035	21,858	294,026	-3.0
Sour cream	131,035	133,978	133,682	1,495,678	0.1
Yogurt, plain and flavored	377,096	324,894	359,817	4,466,216	-5.9

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: 2023

Products	Plants	January	February	March	April
	(number)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Butter	94	203,586	187,456	205,762	197,344
Cheese					
American types	262	512,962	454,152	505,830	491,399
Cheddar	247	366,554	328,113	355,379	352,686
Other American ¹	136	146,408	126,039	150,451	138,713
Blue and Gorgonzola	46	6,334	6,845	8,038	6,472
Brick	19	139	94	145	116
Cream and Neufchatel	32	93,466	93,821	100,320	85,063
Feta	47	10,021	11,193	14,060	12,916
Gouda	94	4,760	5,428	5,515	5,367
Hispanic	64	31,766	31,821	36,843	33,056
Italian types	187	501,658	460,736	496,213	474,325
Mozzarella	112	394,320	361,784	383,594	378,076
Parmesan	48	43,448	40,393	43,358	36,440
Provolone	32	29,358	28,840	34,405	30,568
Ricotta	50	23,520	19,307	22,278	18,178
Romano	25	3,653	3,676	4,940	3,969
Other Italian types	57	7,359	6,736	7,638	7,094
Muenster	43	18,168	14,506	16,986	15,063
Swiss	64	30,141	24,754	27,131	28,114
All other types	204	13,370	12,778	13,739	13,232
Total cheese ²	518	1,222,785	1,116,128	1,224,820	1,165,123
Cottage cheese, curd ³	47	31,520	30,734	33,319	30,516
Cottage cheese, creamed ⁴	47	29,410	29,224	33,127	28,531
Cottage cheese, lowfat ⁵	44	26,555	24,353	26,305	25,100
Sour cream	95	127,476	114,036	127,913	118,718
Yogurt, plain and flavored	154	384,757	383,743	428,478	371,914

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2023 (continued)

Products	May	June	July	August	September
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Butter	196,410	164,478	158,220	138,915	143,134
Cheese					
American types	517,700	480,863	481,811	479,230	473,266
Cheddar	364,287	343,057	333,699	325,393	319,957
Other American ¹	153,413	137,806	148,112	153,837	153,309
Blue and Gorgonzola	7,175	7,038	7,095	7,981	6,090
Brick	126	175	113	146	109
Cream and Neufchatel	84,641	88,421	85,302	88,531	89,432
Feta	12,969	13,559	12,799	13,641	12,429
Gouda	4,211	4,722	6,356	4,966	4,743
Hispanic	32,383	36,812	33,525	38,312	36,738
Italian types	484,024	486,238	483,503	484,214	479,371
Mozzarella	378,366	383,786	384,244	381,750	379,375
Parmesan	43,938	42,645	40,881	37,806	35,253
Provolone	32,745	31,948	29,862	32,731	32,741
Ricotta	17,466	16,852	17,830	20,861	21,504
Romano	4,150	4,028	4,000	3,681	3,846
Other Italian types	7,359	6,979	6,686	7,385	6,652
Muenster	16,271	16,633	17,295	19,315	16,912
Swiss	31,245	29,018	28,959	27,655	26,494
All other types	13,417	14,931	12,187	13,862	13,937
Total cheese ²	1,204,162	1,178,410	1,168,945	1,177,853	1,159,521
Cottage cheese, curd ³	35,329	34,175	34,299	37,511	35,191
Cottage cheese, creamed ⁴	33,114	32,699	32,026	34,739	33,459
Cottage cheese, lowfat ⁵	28,559	27,433	29,618	32,997	32,472
Sour cream	128,185	129,278	118,268	121,697	119,965
Yogurt, plain and flavored	382,291	384,105	385,092	392,827	402,621

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2023 (continued)

Products	October	November	December	Total	2023 as percent of 2022
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)
Butter	162,523	163,544	193,656	2,115,028	2.7
Cheese					
American types ¹	487,001	471,035	489,254	5,844,503	3.0
Cheddar	342,782	321,767	337,743	4,091,417	3.2
Other American	144,219	149,268	151,511	1,753,086	2.6
Blue and Gorgonzola	7,395	7,137	6,784	84,384	-8.3
Brick	126	209	136	1,634	11.2
Cream and Neufchatel	100,717	93,310	88,806	1,091,830	-2.4
Feta	11,632	10,878	9,642	145,739	3.1
Gouda	3,835	5,881	5,698	61,482	-1.5
Hispanic	36,496	36,495	39,213	423,460	9.6
Italian types	509,162	487,486	507,540	5,854,470	-0.8
Mozzarella	399,262	380,413	401,292	4,606,262	-1.0
Parmesan	42,663	40,128	41,540	488,493	0.7
Provolone	31,935	30,600	30,461	376,194	1.8
Ricotta	23,579	23,582	22,742	247,699	0.6
Romano	4,269	5,402	4,395	50,009	-12.2
Other Italian types	7,454	7,361	7,110	85,813	-10.1
Muenster	16,939	16,789	17,490	202,367	5.6
Swiss	26,114	26,463	28,943	335,031	-4.5
All other types	14,847	15,583	14,208	166,091	1.8
Total cheese ²	1,214,264	1,171,266	1,207,714	14,210,991	0.9
Cottage cheese, curd ³	33,409	31,399	31,114	398,516	10.0
Cottage cheese, creamed ⁴	31,351	31,158	29,001	377,839	9.7
Cottage cheese, lowfat ⁵	29,760	26,106	26,154	335,412	14.1
Sour cream	139,112	141,909	132,557	1,519,114	1.6
Yogurt, plain and flavored	374,844	339,246	359,954	4,589,872	2.8

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: 2022

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)	70,278	68,401	83,957	84,632
Ice cream, regular, hard	387	56,658	56,022	68,145	67,000
Ice cream, lowfat, total ¹	(NA)	31,030	34,192	42,871	40,233
Ice cream, lowfat, hard	101	16,195	16,727	21,876	19,827
Ice cream, lowfat, soft	(NA)	14,835	17,465	20,995	20,406
Ice cream, nonfat, total	(NA)	838	785	951	1,098
Ice cream, nonfat, hard	29	654	601	754	871
Sherbet, total	(NA)	2,493	2,622	3,371	2,755
Sherbet, hard	114	1,807	1,923	2,558	1,936
Yogurt, total	(NA)	2,508	3,132	3,738	2,833
Yogurt, regular and lowfat, hard	74	839	1,226	1,595	1,040
Yogurt, nonfat, hard	34	248	277	305	207
Other frozen dairy products ²	49	927	845	1,109	1,193
Water and juice ices ²	96	4,482	5,285	6,723	5,973
Mix for frozen products					
Ice cream, regular, mix	244	34,361	34,928	43,106	43,574
Ice cream, lowfat, mix ³	139	16,143	17,203	22,722	21,458
Ice cream, nonfat, mix	34	449	457	608	505
Sherbet mix	91	1,366	1,655	1,962	1,538
Yogurt mix	80	1,734	1,930	2,192	1,766

See footnote(s) at end of table.

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Ice Cream Production by Product and Month – United States: 2022 (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	80,371	87,516	79,130	82,837	79,433
Ice cream, regular, hard	64,573	68,857	62,827	67,365	64,744
Ice cream, lowfat, total ¹	40,087	42,233	39,616	43,040	38,218
Ice cream, lowfat, hard	18,477	19,805	18,611	20,711	19,107
Ice cream, lowfat, soft	21,610	22,428	21,005	22,329	19,111
Ice cream, nonfat, total	986	3,002	2,827	3,052	2,825
Ice cream, nonfat, hard	771	810	650	807	631
Sherbet, total	2,774	2,859	3,155	2,820	2,638
Sherbet, hard	1,984	2,010	2,169	1,925	1,920
Yogurt, total	3,990	3,688	3,769	3,479	2,635
Yogurt, regular and lowfat, hard	1,116	1,029	1,175	870	953
Yogurt, nonfat, hard	299	284	354	331	399
Other frozen dairy products ²	1,051	1,273	1,143	1,380	1,200
Water and juice ices ²	6,485	6,978	6,825	6,271	5,479
Mix for frozen products					
Ice cream, regular, mix	42,156	45,339	42,149	44,401	40,113
Ice cream, lowfat, mix ³	22,049	24,142	22,792	23,729	20,660
Ice cream, nonfat, mix	545	577	473	499	375
Sherbet mix	1,598	1,637	1,668	1,598	1,526
Yogurt mix	2,101	2,025	2,002	1,899	1,755

See footnote(s) at end of table.

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Ice Cream Production by Product and Month – United States: 2022 (continued)

Products	October	November	December	Total	2022 as percent of 2021
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)
Frozen products					
Ice cream, regular, total	75,488	66,990	65,682	924,715	5.0
Ice cream, regular, hard	61,254	55,668	54,614	747,727	3.8
Ice cream, lowfat, total ¹	36,125	29,735	28,208	445,588	-6.7
Ice cream, lowfat, hard	18,344	14,601	13,249	217,530	-4.8
Ice cream, lowfat, soft	17,781	15,134	14,959	228,058	-8.4
Ice cream, nonfat, total	815	690	738	18,607	74.5
Ice cream, nonfat, hard	628	573	627	8,377	28.6
Sherbet, total	2,702	2,218	2,342	32,749	-6.5
Sherbet, hard	2,076	1,639	1,601	23,548	-16.2
Yogurt, total	3,046	2,303	3,034	38,155	-5.8
Yogurt, regular and lowfat, hard	1,008	881	1,124	12,856	5.7
Yogurt, nonfat, hard	285	208	210	3,407	6.8
Other frozen dairy products ²	1,055	873	694	12,743	10.6
Water and juice ices ²	5,204	4,758	4,166	68,629	-3.4
Mix for frozen products					
Ice cream, regular, mix	38,336	34,096	33,489	476,048	2.6
Ice cream, lowfat, mix ³	18,336	15,588	14,367	239,189	-6.2
Ice cream, nonfat, mix	486	416	392	5,782	21.2
Sherbet mix	1,566	1,235	1,340	18,689	-10.7
Yogurt mix	2,585	1,985	2,285	24,259	22.8

(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: 2023

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)	60,729	67,052	77,195	73,936
Ice cream, regular, hard	381	51,980	56,997	65,225	60,272
Ice cream, lowfat, total ¹	(NA)	32,887	36,307	43,267	40,975
Ice cream, lowfat, hard	94	17,185	18,467	21,482	20,397
Ice cream, lowfat, soft	(NA)	15,702	17,840	21,785	20,578
Ice cream, nonfat, total	(NA)	776	813	900	905
Ice cream, nonfat, hard	30	575	614	710	717
Sherbet, total	(NA)	2,135	2,710	2,564	2,513
Sherbet, hard	112	1,783	2,029	1,851	1,974
Yogurt, total	(NA)	2,584	3,450	3,710	3,238
Yogurt, regular and lowfat, hard	66	817	1,073	1,162	916
Yogurt, nonfat, hard	31	121	406	265	356
Other frozen dairy products ²	50	616	1,142	1,131	1,102
Water and juice ices ²	96	4,664	5,210	6,717	6,267
Mix for frozen products					
Ice cream, regular, mix	243	32,548	34,891	41,363	38,352
Ice cream, lowfat, mix ³	130	16,941	18,522	22,336	21,961
Ice cream, nonfat, mix	31	460	483	520	444
Sherbet mix	83	1,301	1,642	1,663	1,544
Yogurt mix	77	1,597	2,085	2,163	1,905

See footnote(s) at end of table.

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Ice Cream Production by Product and Month – United States: 2023 (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	76,298	83,189	75,274	78,628	73,955
Ice cream, regular, hard	63,493	66,668	61,876	65,454	61,000
Ice cream, lowfat, total ¹	42,912	42,995	41,580	42,401	35,738
Ice cream, lowfat, hard	20,303	21,895	20,281	21,798	18,695
Ice cream, lowfat, soft	22,609	21,100	21,299	20,603	17,043
Ice cream, nonfat, total	908	802	895	1,082	845
Ice cream, nonfat, hard	708	613	641	862	628
Sherbet, total	2,575	2,497	2,545	2,802	2,144
Sherbet, hard	1,937	1,918	1,698	2,069	1,525
Yogurt, total	4,316	4,272	4,292	4,335	3,245
Yogurt, regular and lowfat, hard	1,106	916	1,041	1,053	960
Yogurt, nonfat, hard	395	378	368	365	335
Other frozen dairy products ²	1,157	1,287	1,384	1,368	1,208
Water and juice ices ²	7,016	7,745	7,410	6,664	6,149
Mix for frozen products					
Ice cream, regular, mix	40,461	42,659	40,157	41,296	36,941
Ice cream, lowfat, mix ³	23,411	23,504	23,167	22,982	18,353
Ice cream, nonfat, mix	492	433	445	529	395
Sherbet mix	1,554	1,781	1,365	1,847	1,439
Yogurt mix	2,089	2,192	2,069	2,028	1,769

See footnote(s) at end of table.

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Ice Cream Production by Product and Month – United States: 2023 (continued)

Products	October	November	December	Total	2023 as percent of 2022
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)
Frozen products					
Ice cream, regular, total	68,721	58,547	55,041	848,565	-8.2
Ice cream, regular, hard	55,913	48,489	44,454	701,821	-6.1
Ice cream, lowfat, total ¹	37,237	27,899	26,658	450,856	1.2
Ice cream, lowfat, hard	20,143	13,993	12,619	227,258	4.5
Ice cream, lowfat, soft	17,094	13,906	14,039	223,598	-2.0
Ice cream, nonfat, total	911	762	695	10,294	-44.7
Ice cream, nonfat, hard	724	606	595	7,993	-4.6
Sherbet, total	2,095	1,689	1,589	27,858	-14.9
Sherbet, hard	1,644	1,371	1,182	20,981	-10.9
Yogurt, total	3,321	2,422	3,191	42,376	11.1
Yogurt, regular and lowfat, hard	1,072	860	1,171	12,147	-5.5
Yogurt, nonfat, hard	361	183	160	3,693	8.4
Other frozen dairy products ²	1,065	951	838	13,249	4.0
Water and juice ices ²	5,306	4,333	3,530	71,011	3.5
Mix for frozen products					
Ice cream, regular, mix	34,545	30,335	28,075	441,623	-7.2
Ice cream, lowfat, mix ³	18,220	14,322	13,075	236,794	-1.0
Ice cream, nonfat, mix	498	413	300	5,412	-6.4
Sherbet mix	1,286	1,050	1,074	17,546	-6.1
Yogurt mix	2,123	1,737	1,928	23,685	-2.4

(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: 2022

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	8,207	10,023	11,655	10,511
Dry whey products					
Dry whey, human	30	70,198	67,014	76,076	77,905
Dry whey, animal	22	2,568	1,279	1,688	1,541
Dry whey, total	(NA)	72,766	68,293	77,764	79,446
Reduced lactose and minerals					
Human	3	2,043	2,223	2,835	2,727
Animal	3	3,108	2,812	3,003	3,181
Whey protein concentrate					
Human ²	45	37,708	33,622	36,138	35,450
Animal ²	19	932	1,459	626	1,464
Total ²	(NA)	38,640	35,081	36,764	36,914
25.0-49.9 percent ³	18	13,697	12,549	11,409	12,201
50.0-89.9 percent ³	39	24,943	22,532	25,355	24,713
Whey protein isolates ⁴	19	11,992	10,908	11,180	12,011
Lactose, human and animal	30	94,587	84,943	93,521	96,162
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	(NA)	55,335	61,222	67,973	71,476
Dry whey, animal	(NA)	967	1,310	1,015	991
Dry whey, total	(NA)	56,302	62,532	68,988	72,467
Reduced lactose and minerals					
Human and animal ⁶	(NA)	6,852	7,062	7,813	9,193
Whey protein concentrate					
Human ²	(NA)	66,651	66,565	65,896	68,662
Animal ²	(NA)	1,001	1,268	1,387	1,701
Total ²	(NA)	67,652	67,833	67,283	70,363
25.0-49.9 percent ³	(NA)	22,347	22,734	20,935	20,767
50.0-89.9 percent ³	(NA)	45,305	45,099	46,348	49,596
Whey protein isolates ⁴	(NA)	13,602	14,180	14,977	15,291
Lactose, human and animal	(NA)	170,499	172,170	175,082	171,260
	(number)	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)
Manufacturers' selling price ⁷					
Dry whey, animal	(NA)	13.9	23.0	42.5	39.9

See footnote(s) at end of table.

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**Whey and Modified Whey Products Production, Stocks, and Prices by Month – United States:
2022 (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	10,217	10,311	10,570	10,420	9,494
Dry whey products					
Dry whey, human	75,957	77,471	79,265	70,335	74,634
Dry whey, animal	3,248	2,591	5,022	4,979	1,158
Dry whey, total	79,205	80,062	84,287	75,314	75,792
Reduced lactose and minerals					
Human	2,438	1,902	2,287	2,063	2,123
Animal	3,208	3,128	3,017	3,251	3,355
Whey protein concentrate					
Human ²	35,573	35,376	35,487	34,093	37,815
Animal ²	756	839	976	1,027	839
Total ²	36,329	36,215	36,463	35,120	38,654
25.0-49.9 percent ³	11,557	12,092	11,911	11,253	13,965
50.0-89.9 percent ³	24,772	24,123	24,552	23,867	24,689
Whey protein isolates ⁴	11,930	12,088	11,394	10,518	10,810
Lactose, human and animal	94,985	98,429	95,345	93,173	91,193
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	71,439	69,652	70,854	65,276	64,509
Dry whey, animal	1,771	1,932	1,202	1,861	2,330
Dry whey, total	73,210	71,584	72,056	67,137	66,839
Reduced lactose and minerals					
Human and animal ⁶	9,120	8,704	8,658	9,129	9,119
Whey protein concentrate					
Human ²	68,597	69,376	74,964	70,887	71,672
Animal ²	1,551	1,282	1,080	1,337	852
Total ²	70,148	70,658	76,044	72,224	72,524
25.0-49.9 percent ³	20,198	21,598	23,159	22,457	25,310
50.0-89.9 percent ³	49,950	49,060	52,885	49,767	47,214
Whey protein isolates ⁴	15,702	17,972	19,425	20,609	21,283
Lactose, human and animal	171,682	166,071	168,474	159,652	160,455
	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)
Manufacturers' selling price ⁷					
Dry whey, animal	40.9	35.4	32.0	10.6	26.9

See footnote(s) at end of table.

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Whey and Modified Whey Products Production, Stocks, and Prices by Month – United States: 2022 (continued)

Products	October	November	December	Total	2022 as percent of 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)
Production					
Condensed whey, solids content ¹					
Sweet type, human	10,377	9,237	9,347	120,369	-2.6
Dry whey products					
Dry whey, human	74,086	70,227	72,761	885,929	1.9
Dry whey, animal	1,262	1,814	2,169	29,319	30.6
Dry whey, total	75,348	72,041	74,930	915,248	2.6
Reduced lactose and minerals					
Human	3,058	3,187	2,680	29,566	32.9
Animal	2,819	3,037	3,133	37,052	2.3
Whey protein concentrate					
Human ²	38,601	38,772	40,434	439,069	-2.6
Animal ²	725	1,135	1,274	12,052	-6.2
Total ²	39,326	39,907	41,708	451,121	-2.7
25.0-49.9 percent ³	14,054	14,768	15,284	154,740	-4.7
50.0-89.9 percent ³	25,272	25,139	26,424	296,381	-1.6
Whey protein isolates ⁴	9,976	9,015	8,761	130,583	0.3
Lactose, human and animal	91,462	88,620	89,419	1,111,839	-0.9
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	67,072	71,678	68,264	(X)	(X)
Dry whey, animal	1,344	1,290	1,247	(X)	(X)
Dry whey, total	68,416	72,968	69,511	(X)	(X)
Reduced lactose and minerals					
Human and animal ⁶	10,435	12,278	13,138	(X)	(X)
Whey protein concentrate					
Human ²	73,777	74,604	81,276	(X)	(X)
Animal ²	764	1,038	982	(X)	(X)
Total ²	74,541	75,642	82,258	(X)	(X)
25.0-49.9 percent ³	25,535	26,381	29,328	(X)	(X)
50.0-89.9 percent ³	49,006	49,261	52,930	(X)	(X)
Whey protein isolates ⁴	18,458	22,317	23,082	(X)	(X)
Lactose, human and animal	164,156	171,585	172,089	(X)	(X)
	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)	(percent)
Manufacturers' selling price ⁷					
Dry whey, animal	26.9	15.5	16.0	(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: 2023

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	8,308	8,167	7,791	7,563
Dry whey products					
Dry whey, human	29	71,659	62,102	72,722	75,230
Dry whey, animal	21	5,054	4,597	4,574	4,365
Dry whey, total	(NA)	76,713	66,699	77,296	79,595
Reduced lactose and minerals					
Human	3	913	812	899	900
Animal	3	3,124	2,844	3,151	3,168
Whey protein concentrate					
Human ²	45	40,613	37,879	42,041	40,769
Animal ²	18	489	980	1,111	1,050
Total ²	(NA)	41,102	38,859	43,152	41,819
25.0-49.9 percent ³	15	15,382	13,087	14,974	14,365
50.0-89.9 percent ³	39	25,720	25,772	28,178	27,454
Whey protein isolates ⁴	20	9,462	8,849	9,764	9,285
Lactose, human and animal	29	90,193	83,542	98,668	92,838
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	(NA)	65,111	65,191	63,348	74,798
Dry whey, animal	(NA)	3,330	3,552	3,291	4,305
Dry whey, total	(NA)	68,441	68,743	66,639	79,103
Reduced lactose and minerals					
Human and animal ⁶	(NA)	12,684	9,963	7,703	8,134
Whey protein concentrate					
Human ²	(NA)	85,279	88,646	89,032	88,637
Animal ²	(NA)	748	903	1,094	1,330
Total ²	(NA)	86,027	89,549	90,126	89,967
25.0-49.9 percent ³	(NA)	31,787	34,614	35,494	36,272
50.0-89.9 percent ³	(NA)	54,240	54,935	54,632	53,695
Whey protein isolates ⁴	(NA)	25,869	26,362	27,692	28,157
Lactose, human and animal	(NA)	165,641	168,095	168,417	167,778
	(number)	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)
Manufacturers' selling price ⁷					
Dry whey, animal	(NA)	30.8	22.5	22.5	28.3

See footnote(s) at end of table.

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**Whey and Modified Whey Products Production, Stocks, and Prices by Month – United States:
2023 (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	8,285	8,417	8,422	7,921	6,944
Dry whey products					
Dry whey, human	77,264	84,195	83,408	80,294	75,828
Dry whey, animal	4,518	3,969	5,913	3,276	3,071
Dry whey, total	81,782	88,164	89,321	83,570	78,899
Reduced lactose and minerals					
Human	646	574	826	216	679
Animal	3,198	3,077	2,982	3,140	2,731
Whey protein concentrate					
Human ²	43,023	42,100	41,754	39,457	39,284
Animal ²	870	1,543	1,015	1,335	1,361
Total ²	43,893	43,643	42,769	40,792	40,645
25.0-49.9 percent ³	15,895	14,608	14,325	13,714	13,676
50.0-89.9 percent ³	27,998	29,035	28,444	27,078	26,969
Whey protein isolates ⁴	9,422	12,126	12,381	11,733	13,964
Lactose, human and animal	95,558	98,125	94,224	92,371	95,253
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	75,237	80,119	83,520	84,791	80,258
Dry whey, animal	2,865	2,519	3,612	2,991	2,997
Dry whey, total	78,102	82,638	87,132	87,782	83,255
Reduced lactose and minerals					
Human and animal ⁶	8,515	8,901	9,383	8,679	8,399
Whey protein concentrate					
Human ²	89,014	82,276	82,804	79,686	74,926
Animal ²	1,416	1,976	2,161	1,886	1,082
Total ²	90,430	84,252	84,965	81,572	76,008
25.0-49.9 percent ³	38,008	36,250	35,071	34,946	33,027
50.0-89.9 percent ³	52,422	48,002	49,894	46,626	42,981
Whey protein isolates ⁴	25,700	24,168	21,678	20,114	18,861
Lactose, human and animal	170,086	149,878	145,153	142,336	129,374
	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)
Manufacturers' selling price ⁷					
Dry whey, animal	26.6	23.7	23.6	23.5	23.5

See footnote(s) at end of table.

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**Whey and Modified Whey Products Production, Stocks, and Prices by Month – United States:
2023 (continued)**

Products	October	November	December	Total	2023 as percent of 2022
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)
Production					
Condensed whey, solids content ¹					
Sweet type, human	8,103	7,408	7,779	95,108	-21.0
Dry whey products					
Dry whey, human	71,473	63,351	68,231	885,757	(Z)
Dry whey, animal	3,803	5,230	4,319	52,689	79.7
Dry whey, total	75,276	68,581	72,550	938,446	2.5
Reduced lactose and minerals					
Human	471	573	610	8,119	-72.5
Animal	2,852	2,399	2,996	35,662	-3.8
Whey protein concentrate					
Human ²	38,538	40,327	43,898	489,683	11.5
Animal ²	1,150	966	402	12,272	1.8
Total ²	39,688	41,293	44,300	501,955	11.3
25.0-49.9 percent ³	12,230	12,445	11,884	166,585	7.7
50.0-89.9 percent ³	27,458	28,848	32,416	335,370	13.2
Whey protein isolates ⁴	14,092	14,180	15,684	140,942	7.9
Lactose, human and animal	90,017	84,059	90,687	1,105,535	-0.6
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	71,246	66,722	65,429	(X)	(X)
Dry whey, animal	4,074	4,339	3,887	(X)	(X)
Dry whey, total	75,320	71,061	69,316	(X)	(X)
Reduced lactose and minerals					
Human and animal ⁶	7,162	5,942	5,205	(X)	(X)
Whey protein concentrate					
Human ²	61,136	62,042	60,240	(X)	(X)
Animal ²	1,344	1,944	1,721	(X)	(X)
Total ²	62,480	63,986	61,961	(X)	(X)
25.0-49.9 percent ³	27,596	26,450	25,207	(X)	(X)
50.0-89.9 percent ³	34,884	37,536	36,754	(X)	(X)
Whey protein isolates ⁴	17,716	16,892	16,266	(X)	(X)
Lactose, human and animal	114,800	110,264	108,338	(X)	(X)
	(cents per pounds)	(cents per pounds)	(cents per pounds)	(cents per pounds)	(percent)
Manufacturers' selling price ⁷					
Dry whey, animal	21.5	21.2	23.3	(X)	(X)

(X) Not applicable.

(Z) Less than half of the unit shown.

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: 2022

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	8,981	10,499	11,440	10,428
Skim, unsweetened	36	102,722	95,550	114,013	112,942
Whole, sweetened	4	12,915	9,289	12,333	13,327
Whole, unsweetened	3	644	494	432	285
Condensed or evaporated buttermilk	13	7,731	6,913	7,321	6,721
Canned milk					
Evaporated and condensed whole ¹	6	36,065	32,917	36,294	44,881
Dry milk products					
Dry buttermilk, total	21	12,161	12,740	11,553	12,444
Dry skim milk, animal	17	871	661	544	900
Dry whole milk	14	14,251	10,219	11,738	10,710
Milk protein concentrate, total ²	14	23,792	19,276	20,710	21,638
Nonfat dry milk, human	44	170,437	168,997	191,815	195,821
Skim milk powder, total ³	19	51,932	40,138	42,902	44,613
Manufacturers' stocks end of month ⁴					
Canned milk					
Evaporated and condensed whole ¹	(NA)	54,210	55,003	43,884	51,657
Dry milk products					
Dry buttermilk, total	(NA)	22,302	22,832	23,683	24,515
Dry skim milk, animal	(NA)	5,140	7,016	7,632	7,955
Dry whole milk	(NA)	27,059	24,704	24,507	19,464
Nonfat dry milk, human	(NA)	255,740	288,351	287,919	299,123
Manufacturers' shipments ⁵					
Dry milk products					
Dry buttermilk, human	(NA)	10,158	11,463	10,422	10,811
Dry skim milk, animal	(NA)	1,315	1,447	1,304	1,779
Dry whole milk	(NA)	10,594	11,942	11,924	15,399
Nonfat dry milk, human	(NA)	160,471	130,251	187,194	174,575
Manufacturers' selling price ⁶					
	(number)	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)
Dry milk products					
Dry buttermilk, human	(NA)	117.6	118.9	137.6	161.2
Dry skim milk, animal	(NA)	140.4	148.6	140.3	144.5
Dry whole milk	(NA)	212.2	235.4	247.9	253.8

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: 2022 (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	10,993	10,170	9,457	8,655	11,022
Skim, unsweetened	120,091	118,062	118,463	118,693	107,963
Whole, sweetened	11,541	13,021	13,215	13,618	11,402
Whole, unsweetened	414	470	563	508	401
Condensed or evaporated buttermilk	6,574	6,286	6,097	6,166	5,715
Canned milk					
Evaporated and condensed whole ¹	41,746	47,137	42,822	41,715	38,127
Dry milk products					
Dry buttermilk, total	11,924	10,923	10,843	8,536	9,606
Dry skim milk, animal	1,028	763	616	624	825
Dry whole milk	12,708	11,667	10,543	12,076	12,003
Milk protein concentrate, total ²	22,195	19,026	15,446	14,386	14,452
Nonfat dry milk, human	192,677	168,971	165,726	133,625	122,804
Skim milk powder, total ³	50,753	54,406	61,008	65,551	68,422
Manufacturers' stocks end of month ⁴					
Canned milk					
Evaporated and condensed whole ¹	56,735	59,641	63,365	73,380	68,342
Dry milk products					
Dry buttermilk, total	24,746	26,256	24,195	26,363	30,235
Dry skim milk, animal	8,436	7,709	8,144	7,286	8,916
Dry whole milk	19,933	16,101	16,343	14,177	13,376
Nonfat dry milk, human	317,325	311,755	323,129	312,818	273,195
Manufacturers' shipments ⁵					
Dry milk products					
Dry buttermilk, human	10,737	5,805	12,298	6,510	4,804
Dry skim milk, animal	1,186	2,116	835	1,542	996
Dry whole milk	11,971	15,388	10,384	13,869	12,853
Nonfat dry milk, human	173,193	162,605	152,476	147,739	156,279
	(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	141.6	158.2	164.5	170.7	164.4
Dry skim milk, animal	115.3	118.4	121.0	104.2	120.9
Dry whole milk	252.8	252.8	255.1	256.7	250.5

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: 2022 (continued)

Products	October	November	December	Total	2022 as percent of 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)
Production					
Bulk condensed milk					
Skim, sweetened	12,345	6,150	8,089	118,229	-4.1
Skim, unsweetened	115,143	98,941	102,917	1,325,500	-1.5
Whole, sweetened	12,923	12,526	10,024	146,134	-2.0
Whole, unsweetened	402	368	258	5,239	-74.1
Condensed or evaporated buttermilk	6,508	6,576	7,409	80,017	-2.0
Canned milk					
Evaporated and condensed whole ¹	41,212	47,505	46,482	496,903	-6.9
Dry milk products					
Dry buttermilk, total	10,779	12,548	14,168	138,225	5.0
Dry skim milk, animal	782	615	602	8,831	5.6
Dry whole milk	11,936	10,580	8,441	136,872	-7.7
Milk protein concentrate, total ²	18,034	14,686	17,647	221,288	12.6
Nonfat dry milk, human	124,037	155,743	164,711	1,955,364	-4.5
Skim milk powder, total ³	65,285	49,110	63,766	657,886	-5.7
Manufacturers' stocks end of month ⁴					
Canned milk					
Evaporated and condensed whole ¹	57,560	41,990	39,552	(X)	(X)
Dry milk products					
Dry buttermilk, total	32,146	34,623	35,131	(X)	(X)
Dry skim milk, animal	7,610	7,203	8,075	(X)	(X)
Dry whole milk	15,116	14,366	15,202	(X)	(X)
Nonfat dry milk, human	250,704	259,552	255,687	(X)	(X)
Manufacturers' shipments ⁵					
Dry milk products					
Dry buttermilk, human	7,769	10,882	13,249	(X)	(X)
Dry skim milk, animal	1,564	1,654	1,277	(X)	(X)
Dry whole milk	10,196	11,317	7,176	(X)	(X)
Nonfat dry milk, human	146,524	150,495	168,801	(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	138.9	146.7	106.8	(X)	(X)
Dry skim milk, animal	99.2	104.3	124.0	(X)	(X)
Dry whole milk	247.2	253.0	244.2	(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: 2023

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	4	9,106	8,621	12,691	9,431
Skim, unsweetened	37	119,360	107,949	122,347	118,823
Whole, sweetened	4	11,918	11,139	11,383	13,305
Whole, unsweetened	3	970	934	1,026	1,019
Condensed or evaporated buttermilk	11	7,544	7,152	7,654	7,515
Canned milk					
Evaporated and condensed whole ¹	4	41,861	37,427	37,568	43,788
Dry milk products					
Dry buttermilk, total	21	14,468	12,954	14,086	13,168
Dry skim milk, animal	13	1,217	694	947	530
Dry whole milk	13	9,349	8,441	9,882	8,529
Milk protein concentrate, total ²	12	21,403	19,500	22,890	22,533
Nonfat dry milk, human	48	175,602	177,583	199,390	198,521
Skim milk powder, total ³	19	56,002	47,623	48,544	45,797
Manufacturers' stocks end of month ⁴					
Canned milk					
Evaporated and condensed whole ¹	(NA)	54,744	56,205	44,315	48,000
Dry milk products					
Dry buttermilk, total	(NA)	39,834	39,415	38,588	40,265
Dry skim milk, animal	(NA)	7,104	10,045	5,611	5,892
Dry whole milk	(NA)	16,137	16,832	17,960	14,302
Nonfat dry milk, human	(NA)	270,232	322,952	293,192	297,675
Manufacturers' shipments ⁵					
Dry milk products					
Dry buttermilk, human	(NA)	10,922	11,847	14,180	11,590
Dry skim milk, animal	(NA)	1,943	2,372	1,411	813
Dry whole milk	(NA)	8,366	8,025	8,933	12,061
Nonfat dry milk, human	(NA)	157,508	132,690	220,840	187,304
Manufacturers' selling price ⁶					
	(number)	(cents per pound)	(cents per pound)	(cents per pound)	(cents per pound)
Dry milk products					
Dry buttermilk, human	(NA)	83.2	115.1	109.7	101.3
Dry skim milk, animal	(NA)	92.8	79.5	86.9	73.2
Dry whole milk	(NA)	227.8	221.0	206.6	198.8

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: 2023 (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	11,001	9,399	10,303	9,750	9,752
Skim, unsweetened	127,606	130,773	133,695	128,631	108,228
Whole, sweetened	13,128	14,167	13,342	13,307	13,507
Whole, unsweetened	858	945	982	1,269	1,334
Condensed or evaporated buttermilk	6,652	6,243	5,499	5,640	5,629
Canned milk					
Evaporated and condensed whole ¹	39,535	36,970	39,520	31,730	28,035
Dry milk products					
Dry buttermilk, total	13,763	10,087	11,360	5,689	8,485
Dry skim milk, animal	795	834	582	715	721
Dry whole milk	9,446	10,425	8,719	8,005	9,014
Milk protein concentrate, total ²	23,920	18,447	14,229	12,852	15,236
Nonfat dry milk, human	206,532	173,093	133,356	112,079	99,972
Skim milk powder, total ³	46,555	49,722	72,400	71,296	67,711
Manufacturers' stocks end of month ⁴					
Canned milk					
Evaporated and condensed whole ¹	56,525	57,428	73,178	71,013	59,023
Dry milk products					
Dry buttermilk, total	40,169	39,140	38,623	29,563	27,369
Dry skim milk, animal	6,241	6,701	7,036	8,557	9,744
Dry whole milk	13,458	12,008	9,107	11,469	11,398
Nonfat dry milk, human	300,319	291,257	268,754	261,700	240,605
Manufacturers' shipments ⁵					
Dry milk products					
Dry buttermilk, human	12,767	11,376	11,345	14,170	9,821
Dry skim milk, animal	1,169	1,509	892	1,633	2,031
Dry whole milk	9,938	11,934	11,397	5,494	8,829
Nonfat dry milk, human	200,163	173,790	150,339	122,764	122,863
	(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	81.7	74.8	89.4	70.5	66.8
Dry skim milk, animal	81.3	80.1	69.0	82.3	73.3
Dry whole milk	166.8	189.2	207.9	202.4	206.9

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: 2023 (continued)

Products	October	November	December	Total	2023 as percent of 2022
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)
Production					
Bulk condensed milk					
Skim, sweetened	8,434	10,054	9,423	117,965	-0.2
Skim, unsweetened	115,933	104,005	107,580	1,424,930	7.5
Whole, sweetened	13,275	11,799	10,765	151,035	3.4
Whole, unsweetened	1,203	1,040	1,504	13,084	149.7
Condensed or evaporated buttermilk	6,551	6,777	8,332	81,188	1.5
Canned milk					
Evaporated and condensed whole ¹	41,480	43,305	43,165	464,384	-6.5
Dry milk products					
Dry buttermilk, total	12,456	10,750	14,641	141,907	2.7
Dry skim milk, animal	590	599	537	8,761	-0.8
Dry whole milk	9,461	10,000	9,600	110,871	-19.0
Milk protein concentrate, total ²	13,744	14,226	19,124	218,104	-1.4
Nonfat dry milk, human	128,569	116,818	146,889	1,868,404	-4.4
Skim milk powder, total ³	54,046	70,722	64,201	694,619	5.6
Manufacturers' stocks end of month ⁴					
Canned milk					
Evaporated and condensed whole ¹	49,668	40,879	39,876	(X)	(X)
Dry milk products					
Dry buttermilk, total	25,659	26,950	30,040	(X)	(X)
Dry skim milk, animal	11,654	8,114	6,499	(X)	(X)
Dry whole milk	8,137	10,218	13,073	(X)	(X)
Nonfat dry milk, human	218,117	200,180	198,567	(X)	(X)
Manufacturers' shipments ⁵					
Dry milk products					
Dry buttermilk, human	13,775	9,269	10,460	(X)	(X)
Dry skim milk, animal	2,163	2,082	3,401	(X)	(X)
Dry whole milk	12,692	7,641	6,662	(X)	(X)
Nonfat dry milk, human	146,534	130,812	146,658	(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	69.4	76.6	79.6	(X)	(X)
Dry skim milk, animal	73.7	86.0	82.2	(X)	(X)
Dry whole milk	209.6	226.6	212.6	(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: 2023 and Total 2022-2023

State and region	2023							
	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	205,511	201,928	219,313	207,437	215,676	208,631	201,743	207,459
Idaho	89,477	72,347	91,763	86,470	75,008	87,181	87,713	80,651
Illinois	5,878	5,087	5,709	5,588	6,458	5,618	5,750	5,546
Iowa	32,950	31,090	33,995	30,238	34,960	32,962	31,896	33,717
Massachusetts	6,520	5,736	6,309	6,165	6,556	5,872	6,049	5,958
Minnesota	70,870	65,561	71,872	66,276	71,136	67,329	70,100	66,328
New Jersey	6,459	5,020	6,235	5,054	5,771	5,810	5,940	6,184
New Mexico	95,543	74,094	83,061	79,035	93,542	81,188	78,819	85,370
New York	70,219	65,170	75,104	65,621	62,083	70,626	70,555	69,437
Ohio	22,832	19,865	22,037	20,489	22,087	20,511	20,464	21,049
Pennsylvania	37,986	38,361	42,116	39,425	41,105	40,574	37,910	39,483
South Dakota	41,516	42,132	45,897	41,820	44,488	38,921	43,136	40,533
Vermont	12,757	10,832	11,017	11,292	12,756	11,708	11,905	11,546
Wisconsin	295,824	275,339	303,678	281,480	296,001	293,822	290,759	297,159
Other States ¹	228,443	203,566	206,714	218,733	216,535	207,657	206,206	207,433
United States	1,222,785	1,116,128	1,224,820	1,165,123	1,204,162	1,178,410	1,168,945	1,177,853
Atlantic	139,166	130,243	146,178	132,849	133,537	139,768	137,599	137,941
Central	598,029	553,569	609,577	565,211	595,907	575,822	572,706	576,654
West	485,590	432,316	469,065	467,063	474,718	462,820	458,640	463,258

State and region	2023					2022		
	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	205,123	205,671	206,747	208,379	2,493,618	48	2,461,201	51
Idaho	87,366	89,282	76,763	88,122	1,012,143	8	989,539	8
Illinois	5,632	6,252	5,739	5,836	69,093	10	68,977	11
Iowa	33,445	31,892	34,248	35,624	397,017	17	389,996	17
Massachusetts	6,250	6,580	6,402	6,670	75,067	14	75,277	13
Minnesota	65,393	66,409	65,272	70,174	816,720	13	811,518	12
New Jersey	5,802	6,859	6,307	6,601	72,042	14	61,779	14
New Mexico	77,336	85,214	76,668	83,210	993,080	4	970,738	4
New York	67,155	77,189	71,823	67,331	832,313	60	843,648	62
Ohio	20,935	20,564	21,110	22,733	254,676	19	255,338	19
Pennsylvania	37,163	37,906	36,490	38,081	466,600	43	450,316	40
South Dakota	42,918	45,986	43,413	44,974	515,734	8	533,229	8
Vermont	11,573	12,288	12,003	12,253	141,930	31	147,811	32
Wisconsin	285,775	302,141	294,283	298,582	3,514,843	117	3,520,640	118
Other States ¹	207,655	220,031	213,998	219,144	2,556,115	112	2,504,475	110
United States	1,159,521	1,214,264	1,171,266	1,207,714	14,210,991	518	14,084,482	519
Atlantic	133,097	146,089	138,473	136,414	1,651,354	201	1,641,754	200
Central	566,100	596,796	583,262	599,634	6,993,267	230	6,880,476	229
West	460,324	471,379	449,531	471,666	5,566,370	87	5,562,252	90

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: 2023 and Total 2022-2023

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

State and region	2023							
	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	44,196	43,899	48,933	46,926	46,927	44,163	42,568	46,030
Iowa	18,115	17,193	17,977	16,956	18,222	16,636	15,787	17,597
Minnesota	60,044	54,649	60,359	58,705	59,086	56,662	59,594	55,869
New York	12,333	10,952	12,572	12,326	12,379	12,103	11,841	12,173
Wisconsin	95,043	85,832	95,790	92,388	97,308	90,458	92,482	88,343
Other States ¹	283,231	241,627	270,199	264,098	283,778	260,841	259,539	259,218
United States	512,962	454,152	505,830	491,399	517,700	480,863	481,811	479,230
Atlantic	29,280	25,774	28,332	28,037	29,548	27,748	27,657	27,618
Central	281,129	255,387	282,487	270,468	283,000	264,092	269,657	259,339
West	202,553	172,991	195,011	192,894	205,152	189,023	184,497	192,273

State and region	2023					2022		
	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	47,015	42,757	46,368	47,614	547,396	11	553,223	12
Iowa	17,188	15,636	18,435	17,973	207,715	14	208,047	14
Minnesota	56,985	55,508	55,580	59,058	692,099	10	680,370	8
New York	11,761	12,370	11,323	13,160	145,293	24	141,922	21
Wisconsin	87,205	91,542	90,428	93,911	1,100,730	65	1,062,388	66
Other States ¹	253,112	269,188	248,901	257,538	3,151,270	138	3,026,532	124
United States	473,266	487,001	471,035	489,254	5,844,503	262	5,672,482	245
Atlantic	27,419	29,042	27,730	29,971	338,156	93	341,482	77
Central	259,069	267,557	261,592	270,300	3,224,077	133	3,089,503	131
West	186,778	190,402	181,713	188,983	2,282,270	36	2,241,497	37

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: 2023 and Total 2022-2023

State and region	2023							
	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	20,645	22,414	21,624	21,570	22,213	19,166	16,812	22,118
Iowa	13,236	12,441	12,605	12,491	13,733	12,312	11,681	11,165
Vermont	8,779	7,611	7,967	8,147	8,727	8,065	8,020	7,990
Wisconsin	64,240	59,502	65,190	63,876	64,969	60,844	61,216	54,912
Other States ¹	259,654	226,145	247,993	246,602	254,645	242,670	235,970	229,208
United States	366,554	328,113	355,379	352,686	364,287	343,057	333,699	325,393
Atlantic	27,541	24,418	26,761	26,547	27,438	25,819	25,971	25,925
Central	200,220	184,403	197,644	194,946	196,709	184,744	187,440	174,782
West	138,793	119,292	130,974	131,193	140,140	132,494	120,288	124,686
State and region	2023						2022	
	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	20,699	19,614	19,679	17,256	243,810	9	275,313	11
Iowa	9,018	8,840	8,373	9,832	135,727	14	124,560	14
Vermont	8,059	8,752	8,662	8,865	99,644	15	104,896	14
Wisconsin	54,493	60,022	58,353	62,511	730,128	65	710,656	66
Other States ¹	227,688	245,554	226,700	239,279	2,882,108	144	2,748,037	129
United States	319,957	342,782	321,767	337,743	4,091,417	247	3,963,462	234
Atlantic	25,628	27,212	26,246	28,260	317,766	83	317,255	70
Central	171,368	181,240	171,560	185,184	2,230,240	130	2,119,803	128
West	122,961	134,330	123,961	124,299	1,543,411	34	1,526,404	36

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: 2023 and Total 2022-2023

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

State and region	2023							
	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	23,551	21,485	27,309	25,356	24,714	24,997	25,756	23,912
Iowa	4,879	4,752	5,372	4,465	4,489	4,324	4,106	6,432
Wisconsin	30,803	26,330	30,600	28,512	32,339	29,614	31,266	33,431
Other States ¹	87,175	73,472	87,170	80,380	91,871	78,871	86,984	90,062
United States	146,408	126,039	150,451	138,713	153,413	137,806	148,112	153,837
Atlantic	1,739	1,356	1,571	1,490	2,110	1,929	1,686	1,693
Central	80,909	70,984	84,843	75,522	86,291	79,348	82,217	84,557
West	63,760	53,699	64,037	61,701	65,012	56,529	64,209	67,587
State and region	2023						2022	
	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	26,316	23,143	26,689	30,358	303,586	8	277,910	9
Iowa	8,170	6,796	10,062	8,141	71,988	5	83,487	5
Wisconsin	32,712	31,520	32,075	31,400	370,602	39	351,732	39
Other States ¹	86,111	82,760	80,442	81,612	1,006,910	84	995,891	80
United States	153,309	144,219	149,268	151,511	1,753,086	136	1,709,020	133
Atlantic	1,791	1,830	1,484	1,711	20,390	37	24,227	35
Central	87,701	86,317	90,032	85,116	993,837	79	969,700	77
West	63,817	56,072	57,752	64,684	738,859	20	715,093	21

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: 2023 and Total 2022-2023

State and region	2023							
	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	136,739	134,920	143,296	137,276	145,073	138,293	135,144	134,651
Minnesota	10,635	10,718	11,202	7,410	11,706	10,436	10,269	10,223
New Jersey	3,673	2,476	3,227	2,372	2,794	2,777	3,132	3,061
New York	28,695	25,675	31,699	26,789	27,136	28,183	27,303	29,927
Pennsylvania	24,764	22,045	24,273	24,268	24,169	23,658	22,115	22,575
Wisconsin	140,435	128,895	139,493	134,044	140,834	140,953	139,954	142,729
Other States ¹	156,717	136,007	143,023	142,166	132,312	141,938	145,586	141,048
United States	501,658	460,736	496,213	474,325	484,024	486,238	483,503	484,214
Atlantic	61,051	53,948	63,248	57,379	58,026	58,503	56,536	59,661
Central	208,777	193,838	211,013	193,657	205,314	201,530	204,632	208,363
West	231,830	212,950	221,952	223,289	220,684	226,205	222,335	216,190

State and region	2023						2022	
	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	131,566	140,763	138,462	138,771	1,654,954	25	1,619,698	26
Minnesota	8,402	10,793	9,587	10,933	122,314	5	127,499	5
New Jersey	3,080	3,575	3,363	3,493	37,023	9	31,728	9
New York	28,040	31,226	30,759	29,547	344,979	13	347,285	18
Pennsylvania	20,631	22,794	21,695	23,231	276,218	11	275,525	13
Wisconsin	138,601	144,280	140,799	143,224	1,674,241	51	1,680,441	53
Other States ¹	149,051	155,731	142,821	158,341	1,744,741	73	1,822,249	70
United States	479,371	509,162	487,486	507,540	5,854,470	187	5,904,425	194
Atlantic	55,614	61,538	59,837	60,378	705,719	69	699,429	68
Central	203,780	214,125	206,710	213,113	2,464,852	79	2,478,847	85
West	219,977	233,499	220,939	234,049	2,683,899	39	2,726,149	41

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: 2023 and Total 2022-2023

State and region	2023							
	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	124,307	123,248	132,772	126,935	133,311	126,967	124,091	125,532
New Jersey	1,542	1,334	1,751	1,421	1,522	1,613	1,711	1,659
New York	12,655	11,489	15,361	12,971	13,529	15,168	14,216	14,114
Pennsylvania	20,654	17,886	19,885	20,094	19,615	19,340	18,263	18,074
Wisconsin	91,765	83,416	85,630	84,484	90,316	90,883	92,272	95,039
Other States ¹	143,397	124,411	128,195	132,171	120,073	129,815	133,691	127,332
United States	394,320	361,784	383,594	378,076	378,366	383,786	384,244	381,750
Atlantic	37,381	33,100	39,444	36,881	37,121	38,587	36,712	36,421
Central	139,128	128,471	134,474	129,623	133,799	131,866	137,917	139,815
West	217,811	200,213	209,676	211,572	207,446	213,333	209,615	205,514

State and region	2023						2022	
	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	123,636	129,315	127,525	128,835	1,526,474	18	1,496,486	22
New Jersey	1,656	1,663	1,538	1,610	19,020	7	15,808	7
New York	12,362	13,762	13,893	14,668	164,188	11	167,560	15
Pennsylvania	16,418	18,900	17,378	19,112	225,619	5	225,997	6
Wisconsin	89,152	92,085	91,234	92,439	1,078,715	33	1,074,965	35
Other States ¹	136,151	143,537	128,845	144,628	1,592,246	38	1,670,417	41
United States	379,375	399,262	380,413	401,292	4,606,262	112	4,651,233	126
Atlantic	32,924	36,769	35,207	37,839	438,386	34	439,634	39
Central	135,822	141,755	136,472	140,695	1,629,837	51	1,627,860	56
West	210,629	220,738	208,734	222,758	2,538,039	27	2,583,739	31

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: 2022 and 2023

Type	2022	2023	2023 as percent of 2022
	(1,000 pounds)	(1,000 pounds)	(percent)
Hard			
Provolone and similars	369,391	376,194	1.8
Romano and similars	56,974	50,009	-12.2
Parmesan and similars	485,175	488,493	0.7
Other hard	63,304	52,687	-16.8
Total hard	974,844	967,383	-0.8
Soft			
Mozzarella and similars	4,651,233	4,606,262	-1.0
Ricotta and similars	246,196	247,699	0.6
Other soft	32,152	33,126	3.0
Total soft	4,929,581	4,887,087	-0.9
Total hard and soft	5,904,425	5,854,470	-0.8

Total Italian Cheese Production by Type – Regions and United States: 2022 and 2023

Region	Hard types		Soft types		Total	
	2022	2023	2022	2023	2022	2023
	(1,000 lbs)	(1,000 lbs)	(1,000 lbs)	(1,000 lbs)	(1,000 lbs)	(1,000 lbs)
Atlantic	121,284	118,621	578,145	587,098	699,429	705,719
Central	717,396	710,784	1,761,451	1,754,068	2,478,847	2,464,852
West	136,164	137,978	2,589,985	2,545,921	2,726,149	2,683,899
United States	974,844	967,383	4,929,581	4,887,087	5,904,425	5,854,470

Miscellaneous Italian Cheese Production – States and United States: 2022 and 2023

State	Provolone		Romano		Parmesan	
	2022	2023	2022	2023	2022	2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Wisconsin	191,082	197,686	30,955	29,504	251,893	262,236
Other States ¹	178,309	178,508	26,019	20,505	233,282	226,257
United States	369,391	376,194	56,974	50,009	485,175	488,493

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: 2023 and Total 2022-2023

State	2023							
	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)
Ohio	12,861	11,379	12,456	12,809	13,812	13,272	12,911	11,833
Pennsylvania	711	609	641	593	709	661	607	564
Wisconsin	1,339	1,115	1,250	1,049	1,427	1,254	1,240	1,215
Other States ¹	15,230	11,651	12,784	13,663	15,297	13,831	14,201	14,043
United States	30,141	24,754	27,131	28,114	31,245	29,018	28,959	27,655

State	2023						2022	
	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)
Ohio	11,479	11,334	11,238	12,540	147,924	12	155,174	12
Pennsylvania	509	566	550	610	7,330	9	7,640	8
Wisconsin	1,068	1,338	1,281	1,363	14,939	11	15,597	11
Other States ¹	13,438	12,876	13,394	14,430	164,838	32	172,446	33
United States	26,494	26,114	26,463	28,943	335,031	64	350,857	64

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: 2023 and Total 2022-2023

State	2023							
	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	12,706	13,805	15,863	13,443	13,016	14,229	13,855	15,602
Wisconsin	10,142	9,818	11,711	10,289	9,777	9,984	10,914	12,050
Other States ¹	8,918	8,198	9,269	9,324	9,590	12,599	8,756	10,660
United States	31,766	31,821	36,843	33,056	32,383	36,812	33,525	38,312

State	2023						2022	
	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	14,912	10,072	10,769	11,610	159,882	10	165,736	11
Wisconsin	10,954	11,904	11,735	10,752	130,030	20	127,612	22
Other States ¹	10,872	14,520	13,991	16,851	133,548	34	92,960	29
United States	36,738	36,496	36,495	39,213	423,460	64	386,308	62

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: 2023 and Total 2022-2023

State	2023							
	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	6,808	4,432	5,561	4,536	4,602	5,623	5,475	5,845
Wisconsin	5,902	5,454	5,791	4,716	6,851	6,299	5,724	6,832
Other States ¹	5,458	4,620	5,634	5,811	4,818	4,711	6,096	6,638
United States	18,168	14,506	16,986	15,063	16,271	16,633	17,295	19,315

State	2023						2022	
	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	5,287	5,335	5,013	5,464	63,981	2	61,336	3
Wisconsin	5,807	6,021	6,503	6,386	72,286	24	67,873	26
Other States ¹	5,818	5,583	5,273	5,640	66,100	17	62,435	14
United States	16,912	16,939	16,789	17,490	202,367	43	191,644	43

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

Processed Cheeses and Combinations Production – United States: 2014-2023

Year	Processed cheese ¹		Processed cheese foods and spreads ²	
	Plants	Production	Plants	Production
	(number)	(1,000 pounds)	(number)	(1,000 pounds)
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	1,783,805	23	572,213
2019	27	1,600,799	24	740,656
2020	28	1,677,043	24	579,973
2021	27	2,010,903	23	634,621
2022	29	1,740,497	24	638,191
2023	30	2,111,257	25	638,237

Year	Cold pack cheese and cheese foods ²		Total	
	Plants	Production	Plants	Production
	(number)	(1,000 pounds)	(number)	(1,000 pounds)
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	2,386,461
2019	13	30,247	48	2,371,702
2020	14	34,308	47	2,291,324
2021	15	168,512	45	2,814,036
2022	17	164,301	49	2,542,989
2023	17	164,640	50	2,914,134

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: 2023 and Total 2022-2023

[Fat content less than 4 percent]

State and region	2023							
	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	8,534	7,667	8,304	7,750	9,305	8,416	7,763	9,336
Ohio	1,795	1,650	1,913	2,005	2,517	2,765	3,751	3,853
Other States ¹	16,226	15,036	16,088	15,345	16,737	16,252	18,104	19,808
United States	26,555	24,353	26,305	25,100	28,559	27,433	29,618	32,997
Atlantic	8,838	7,957	8,572	8,039	9,614	8,704	8,010	9,655
Central	8,600	8,671	9,878	9,115	10,731	10,696	12,015	13,662
West	9,117	7,725	7,855	7,946	8,214	8,033	9,593	9,680
State and region	2023						2022	
	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	9,437	10,088	8,292	8,408	103,300	6	87,427	6
Ohio	4,619	2,907	2,566	2,189	32,530	5	22,420	5
Other States ¹	18,416	16,765	15,248	15,557	199,582	33	184,179	32
United States	32,472	29,760	26,106	26,154	335,412	44	294,026	43
Atlantic	9,750	10,310	8,568	8,637	106,654	10	90,766	9
Central	13,847	10,873	9,508	9,703	127,299	19	105,019	19
West	8,875	8,577	8,030	7,814	101,459	15	98,241	15

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: 2023 and Total 2022-2023

[Fat content more than 4 percent]

State and region	2023							
	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	9,652	9,469	11,033	8,967	10,329	10,670	10,145	11,114
Ohio	4,242	3,949	4,440	3,878	3,681	4,474	3,933	4,526
Oregon	546	444	645	511	563	625	616	605
Other States ¹	14,970	15,362	17,009	15,175	18,541	16,930	17,332	18,494
United States	29,410	29,224	33,127	28,531	33,114	32,699	32,026	34,739
Atlantic	10,264	10,082	11,740	9,522	10,985	11,216	10,744	11,898
Central	14,213	14,354	15,732	14,327	16,616	15,634	14,460	16,491
West	4,933	4,788	5,655	4,682	5,513	5,849	6,822	6,350

State and region	2023						2022	
	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	11,630	10,883	9,973	8,880	122,745	7	106,438	7
Ohio	4,582	3,312	4,273	4,595	49,885	5	46,381	5
Oregon	666	603	548	462	6,834	3	5,307	3
Other States ¹	16,581	16,553	16,364	15,064	198,375	32	186,174	34
United States	33,459	31,351	31,158	29,001	377,839	47	344,300	49
Atlantic	12,246	11,463	10,650	9,420	130,230	10	113,882	11
Central	15,139	14,019	14,832	14,493	180,310	21	169,326	21
West	6,074	5,869	5,676	5,088	67,299	16	61,092	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: 2023 and Total 2022-2023

[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	2023							
	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	9,672	9,314	10,042	8,983	10,371	9,992	10,091	9,805
Ohio	3,010	2,874	3,270	3,024	3,177	3,710	3,929	4,269
Other States ¹	18,838	18,546	20,007	18,509	21,781	20,473	20,279	23,437
United States	31,520	30,734	33,319	30,516	35,329	34,175	34,299	37,511
Atlantic	10,407	10,041	10,771	9,673	11,183	10,706	10,814	10,675
Central	13,986	14,067	15,570	14,520	17,105	16,980	15,771	18,834
West	7,127	6,626	6,978	6,323	7,041	6,489	7,714	8,002
State and region	2023						2022	
	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	10,506	10,282	9,156	8,917	117,131	8	105,094	8
Ohio	4,720	3,185	3,492	3,451	42,111	5	34,993	5
Other States ¹	19,965	19,942	18,751	18,746	239,274	34	222,266	35
United States	35,191	33,409	31,399	31,114	398,516	47	362,353	48
Atlantic	11,288	10,977	9,942	9,598	126,075	13	113,438	13
Central	16,347	14,947	14,474	15,050	187,651	21	167,310	23
West	7,556	7,485	6,983	6,466	84,790	13	81,605	12

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: 2023 and Total 2022-2023

State and region	2023							
	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	16,338	15,071	18,435	15,710	16,718	16,381	15,314	17,428
New York	24,072	19,687	22,624	21,065	23,814	23,426	23,770	22,730
Oregon	1,351	921	1,098	1,070	966	1,383	953	1,268
Pennsylvania	185	119	184	223	213	210	216	196
Other States ¹	85,530	78,238	85,572	80,650	86,474	87,878	78,015	80,075
United States	127,476	114,036	127,913	118,718	128,185	129,278	118,268	121,697
Atlantic	26,483	22,330	25,271	23,527	26,555	26,108	26,397	25,375
Central	65,972	61,459	67,946	64,690	69,849	69,859	62,454	61,466
West	35,021	30,247	34,696	30,501	31,781	33,311	29,417	34,856
State and region	2023						2022	
	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	16,428	17,113	16,835	16,485	198,256	16	199,309	16
New York	22,757	25,209	22,211	23,499	274,864	14	255,271	13
Oregon	1,346	1,643	1,346	1,313	14,658	5	15,311	5
Pennsylvania	163	202	150	288	2,349	6	2,515	6
Other States ¹	79,271	94,945	101,367	90,972	1,028,987	54	1,023,272	58
United States	119,965	139,112	141,909	132,557	1,519,114	95	1,495,678	98
Atlantic	25,506	28,097	24,899	26,258	306,806	29	289,570	30
Central	61,711	73,835	78,747	70,214	808,202	36	788,150	37
West	32,748	37,180	38,263	36,085	404,106	30	417,958	31

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: 2023 and Total 2022-2023

State and region	2023							
	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	64,779	58,101	65,498	63,363	63,713	54,038	51,041	49,147
Pennsylvania	8,482	7,500	7,626	7,145	8,253	6,807	6,656	5,613
Other States ¹	130,325	121,855	132,638	126,836	124,444	103,633	100,523	84,155
United States	203,586	187,456	205,762	197,344	196,410	164,478	158,220	138,915
Atlantic	17,764	18,052	18,228	15,820	16,724	12,426	10,226	10,020
Central	82,488	73,296	81,111	79,116	76,704	61,617	61,527	53,988
West	103,334	96,108	106,423	102,408	102,982	90,435	86,467	74,907
State and region	2023						2022	
	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	48,471	50,979	51,630	59,480	680,240	10	685,953	11
Pennsylvania	6,647	6,963	6,752	8,418	86,862	6	89,697	5
Other States ¹	88,016	104,581	105,162	125,758	1,347,926	78	1,283,093	79
United States	143,134	162,523	163,544	193,656	2,115,028	94	2,058,743	95
Atlantic	10,779	12,213	11,805	16,426	170,483	40	168,753	41
Central	53,097	63,635	63,188	76,284	826,051	35	772,344	34
West	79,258	86,675	88,551	100,946	1,118,494	19	1,117,646	20

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: 2023 and Total 2022-2023

State and region	2023							
	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	17,357	17,041	20,020	18,918	19,650	18,320	18,784	20,842
New York	69,611	80,878	76,543	70,715	75,795	72,083	78,504	77,264
Other States ¹	297,789	285,824	331,915	282,281	286,846	293,702	287,804	294,721
United States	384,757	383,743	428,478	371,914	382,291	384,105	385,092	392,827
Atlantic	114,635	124,216	127,213	112,849	122,540	119,394	122,150	120,868
Central	172,663	162,627	197,437	154,689	160,851	169,136	161,787	167,875
West	97,459	96,900	103,828	104,376	98,900	95,575	101,155	104,084
State and region	2023						2022	
	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	20,181	19,706	16,869	15,490	223,178	15	221,139	14
New York	77,094	71,249	72,254	69,544	891,534	36	793,256	37
Other States ¹	305,346	283,889	250,123	274,920	3,475,160	103	3,451,821	105
United States	402,621	374,844	339,246	359,954	4,589,872	154	4,466,216	156
Atlantic	121,763	117,879	115,829	114,076	1,433,412	82	1,339,455	85
Central	179,350	159,491	139,523	161,666	1,987,095	40	1,948,349	39
West	101,508	97,474	83,894	84,212	1,169,365	32	1,178,412	32

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:
2023 and Total 2022-2023**

State and region	2023							
	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	8,756	8,013	8,368	9,130	9,019	8,625	10,055	9,778
New York	5,065	6,025	4,407	5,459	7,664	7,715	8,161	6,593
Other States ¹	105,539	93,911	109,572	104,234	110,923	114,433	115,479	112,260
United States	119,360	107,949	122,347	118,823	127,606	130,773	133,695	128,631
Atlantic	34,499	32,339	37,980	38,079	42,457	43,485	46,028	46,454
Central	54,427	47,704	52,362	51,653	54,703	57,775	58,001	55,317
West	30,434	27,906	32,005	29,091	30,446	29,513	29,666	26,860
State and region	2023						2022	
	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	9,462	10,243	8,990	8,008	108,447	5	108,237	4
New York	8,834	8,488	5,390	5,045	78,846	5	80,637	5
Other States ¹	89,932	97,202	89,625	94,527	1,237,637	27	1,136,626	27
United States	108,228	115,933	104,005	107,580	1,424,930	37	1,325,500	36
Atlantic	37,835	42,546	35,447	37,565	474,714	12	405,120	12
Central	47,534	52,480	47,525	51,053	630,534	13	547,055	13
West	22,859	20,907	21,033	18,962	319,682	12	373,325	11

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: 2023 and Total 2022-2023

State and region	2023							
	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	79,250	75,007	92,345	91,451	93,095	74,702	46,488	36,464
Pennsylvania	14,760	15,181	14,993	16,687	18,139	15,556	13,982	13,645
Other States ¹	81,592	87,395	92,052	90,383	95,298	82,835	72,886	61,970
United States	175,602	177,583	199,390	198,521	206,532	173,093	133,356	112,079
Atlantic	26,531	27,512	28,624	30,471	35,707	30,263	27,007	26,878
Central	39,791	35,583	40,786	39,023	39,813	35,724	32,605	26,196
West	109,280	114,488	129,980	129,027	131,012	107,106	73,744	59,005
State and region	2023						2022	
	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	37,072	55,810	43,156	62,017	786,857	9	847,246	9
Pennsylvania	11,709	10,321	10,878	13,769	169,620	4	174,232	3
Other States ¹	51,191	62,438	62,784	71,103	911,927	35	933,886	32
United States	99,972	128,569	116,818	146,889	1,868,404	48	1,955,364	44
Atlantic	19,992	21,061	21,711	26,565	322,322	12	335,225	10
Central	22,390	28,190	24,969	30,674	395,744	14	412,114	13
West	57,590	79,318	70,138	89,650	1,150,338	22	1,208,025	21

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: 2023 and Total 2022-2023

State and region	2023							
	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	11,277	8,661	11,058	10,818	11,555	11,965	10,646	11,404
Wisconsin	20,872	18,279	18,606	18,894	19,468	24,465	22,358	22,663
Other States ¹	39,510	35,162	43,058	45,518	46,241	47,765	50,404	46,227
United States	71,659	62,102	72,722	75,230	77,264	84,195	83,408	80,294
Atlantic	21,808	17,787	21,562	21,782	22,019	22,461	20,542	21,846
Central	31,013	28,522	33,930	37,382	38,570	43,675	42,133	41,784
West	18,838	15,793	17,230	16,066	16,675	18,059	20,733	16,664
State and region	2023						2022	
	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	10,171	10,566	10,855	11,093	130,069	5	133,268	5
Wisconsin	22,034	21,751	21,160	23,939	254,489	8	277,044	9
Other States ¹	43,623	39,156	31,336	33,199	501,199	16	475,617	16
United States	75,828	71,473	63,351	68,231	885,757	29	885,929	30
Atlantic	19,074	20,246	19,734	21,338	250,199	9	251,325	9
Central	40,213	34,604	31,094	34,316	437,236	13	410,487	14
West	16,541	16,623	12,523	12,577	198,322	7	224,117	7

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: 2023 and Total 2022-2023

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

State and region	2023							
	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	6,122	5,920	6,731	5,946	7,574	7,721	7,075	7,399
New York	1,944	2,094	2,368	2,559	2,521	2,410	2,704	2,612
Ohio	2,072	1,924	2,477	2,174	2,306	2,350	2,478	2,341
Utah	869	1,383	1,789	1,723	1,683	1,643	1,512	1,605
Wisconsin	740	754	913	851	1,018	1,187	1,112	1,003
Other States ¹	40,233	44,922	50,947	47,019	48,391	51,357	46,995	50,494
United States	51,980	56,997	65,225	60,272	63,493	66,668	61,876	65,454
Atlantic	11,568	10,824	12,649	13,965	14,198	14,377	14,490	15,059
Central	30,822	36,149	41,009	35,188	36,766	39,068	35,441	37,485
West	9,590	10,024	11,567	11,119	12,529	13,223	11,945	12,910
State and region	2023						2022	
	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	5,991	5,849	5,557	4,041	75,926	21	77,939	22
New York	2,228	2,091	1,764	1,698	26,993	28	26,003	28
Ohio	2,117	2,058	2,075	1,839	26,211	30	26,911	29
Utah	1,599	1,333	1,162	1,005	17,306	7	17,230	7
Wisconsin	804	689	746	689	10,506	30	8,384	28
Other States ¹	48,261	43,893	37,185	35,182	544,879	265	591,260	273
United States	61,000	55,913	48,489	44,454	701,821	381	747,727	387
Atlantic	13,570	12,514	10,897	9,806	153,917	194	189,151	197
Central	36,016	33,442	28,133	26,752	416,271	139	430,400	141
West	11,414	9,957	9,459	7,896	131,633	48	128,176	49

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: 2023 and Total 2022-2023

State and region	2023							
	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	4,321	4,451	5,136	4,783	5,594	5,709	5,466	5,549
Connecticut	1,009	809	1,296	1,176	1,019	1,116	1,105	1,117
Illinois	1,559	1,607	2,023	1,905	2,168	2,091	1,735	1,893
Missouri	1,310	1,197	1,361	1,415	1,357	1,352	1,224	1,128
New York	1,134	1,157	1,326	1,490	1,499	1,468	1,513	1,492
Ohio	1,101	996	1,250	1,145	1,251	1,282	1,329	1,430
Oregon	803	796	907	735	824	995	999	955
Pennsylvania	1,192	953	1,010	1,441	1,860	1,814	1,870	1,857
Utah	481	946	1,161	1,158	1,156	1,155	1,083	1,174
Other States ¹	19,638	21,979	25,893	23,104	23,733	25,677	23,833	24,701
United States	32,548	34,891	41,363	38,352	40,461	42,659	40,157	41,296
Atlantic	7,385	6,362	8,610	9,319	9,514	9,922	9,992	10,190
Central	18,035	20,522	23,738	20,817	21,821	22,709	20,832	21,664
West	7,128	8,007	9,015	8,216	9,126	10,028	9,333	9,442
State and region	2023						2022	
	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	4,333	4,295	4,010	3,147	56,794	22	57,319	24
Connecticut	1,031	661	841	572	11,752	8	11,666	8
Illinois	1,217	1,670	1,402	1,077	20,347	6	29,226	8
Missouri	1,108	1,311	834	788	14,385	5	16,860	5
New York	1,276	1,120	936	887	15,298	14	15,026	13
Ohio	1,091	1,066	1,058	960	13,959	16	14,282	15
Oregon	796	907	725	668	10,110	6	13,589	7
Pennsylvania	1,578	1,726	1,643	1,734	18,678	21	21,187	18
Utah	1,091	870	816	771	11,862	5	11,204	6
Other States ¹	23,420	20,919	18,070	17,471	268,438	140	285,689	140
United States	36,941	34,545	30,335	28,075	441,623	243	476,048	244
Atlantic	8,891	7,851	7,199	6,456	101,691	91	116,982	87
Central	20,102	19,334	16,241	15,613	241,428	100	258,871	102
West	7,948	7,360	6,895	6,006	98,504	52	100,195	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: 2023 and Total 2022-2023

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

State and region	2023						
	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	2,550	2,517	2,739	3,056	3,414	3,668	3,717
Illinois	1,689	1,234	1,919	1,693	1,847	2,207	1,970
Pennsylvania	895	584	510	542	684	1,022	906
Other States ¹	27,753	31,972	38,099	35,684	36,967	36,098	34,987
United States	32,887	36,307	43,267	40,975	42,912	42,995	41,580
Atlantic	6,259	7,519	9,101	9,073	8,935	7,651	9,040
Central	22,541	24,370	29,405	26,926	28,640	29,409	27,020
West	4,087	4,418	4,761	4,976	5,337	5,935	5,520

State and region	2023						2022
	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	3,686	2,744	2,605	1,911	1,325	33,932	36,139
Illinois	1,860	1,358	1,155	992	904	18,828	18,289
Pennsylvania	933	746	886	764	665	9,137	4,382
Other States ¹	35,922	30,890	32,591	24,232	23,764	388,959	386,778
United States	42,401	35,738	37,237	27,899	26,658	450,856	445,588
Atlantic	8,146	6,924	8,315	6,900	7,307	95,170	97,254
Central	28,489	24,231	24,773	17,919	16,693	300,416	291,106
West	5,766	4,583	4,149	3,080	2,658	55,270	57,228

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: 2023 and Total 2022-2023

[Includes milkshake mix]

State and region	2023							
	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	1,319	1,413	1,502	1,655	1,856	1,881	1,947	1,895
Ohio	429	403	564	525	565	631	618	523
Pennsylvania	504	362	356	427	680	789	714	737
Other States ¹	14,689	16,344	19,914	19,354	20,310	20,203	19,888	19,827
United States	16,941	18,522	22,336	21,961	23,411	23,504	23,167	22,982
Atlantic	3,140	3,369	4,106	4,069	4,186	3,502	4,241	3,873
Central	11,599	12,739	15,539	15,114	16,269	17,046	16,016	16,067
West	2,202	2,414	2,691	2,778	2,956	2,956	2,910	3,042
State and region	2023						2022	
	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	1,403	1,462	1,086	855	18,274	15	19,594	16
Ohio	451	394	329	266	5,698	10	5,667	11
Pennsylvania	577	527	480	422	6,575	9	5,034	9
Other States ¹	15,922	15,837	12,427	11,532	206,247	96	208,894	103
United States	18,353	18,220	14,322	13,075	236,794	130	239,189	139
Atlantic	3,178	3,685	3,124	3,103	43,576	34	46,989	39
Central	12,829	12,307	9,514	8,468	163,507	60	161,028	63
West	2,346	2,228	1,684	1,504	29,711	36	31,172	37

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: 2023 and Total 2022-2023

State and region	2023							
	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	1,783	2,029	1,851	1,974	1,937	1,918	1,698	2,069
Atlantic	513	275	308	359	418	399	409	329
Central	998	1,480	1,261	1,345	1,220	1,165	931	1,486
West	272	274	282	270	299	354	358	254
State and region	2023						2022	
	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	1,525	1,644	1,371	1,182	20,981	112	23,548	114
Atlantic	268	377	226	305	4,186	45	4,470	44
Central	1,000	948	952	699	13,485	44	14,999	45
West	257	319	193	178	3,310	23	4,079	25

Sherbet Mix Production by Month – States, United States and Regions: 2023 and Total 2022-2023

State and region	2023							
	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	64	77	34	45	65	94	66	56
Ohio	96	109	134	131	142	153	53	160
Pennsylvania	50	39	33	51	72	53	84	81
Utah	47	66	85	74	86	89	72	63
Other States ¹	1,044	1,351	1,377	1,243	1,189	1,392	1,090	1,487
United States	1,301	1,642	1,663	1,544	1,554	1,781	1,365	1,847
Atlantic	339	286	244	226	304	298	330	239
Central	771	1,123	1,186	1,126	995	1,192	776	1,332
West	191	233	233	192	255	291	259	276
State and region	2023						2022	
	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	53	53	64	31	702	8	991	9
Ohio	75	87	99	58	1,297	7	1,359	6
Pennsylvania	50	99	52	50	714	6	584	6
Utah	88	69	13	54	806	5	879	5
Other States ¹	1,173	978	822	881	14,027	57	14,876	65
United States	1,439	1,286	1,050	1,074	17,546	83	18,689	91
Atlantic	207	282	161	219	3,135	26	3,256	28
Central	1,009	779	744	714	11,747	35	12,222	38
West	223	225	145	141	2,664	22	3,211	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: 2023 and Total 2022-2023

State and region	2023						
	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	1,597	2,085	2,163	1,905	2,089	2,192	2,069
Atlantic	169	227	188	225	328	316	370
Central	932	1,046	1,134	965	1,106	1,151	912
West	496	812	841	715	655	725	787
State and region	2023						2022
	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	2,028	1,769	2,123	1,737	1,928	23,685	24,259
Atlantic	229	240	260	209	243	3,004	7,195
Central	959	940	1,038	912	699	11,794	8,023
West	840	589	825	616	986	8,887	9,041

Water and Juice Ices Production by Month – United States and Regions: 2023 and Total 2022-2023

[Does not include counter-freezer production]

State and region	2023							
	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	4,664	5,210	6,717	6,267	7,016	7,745	7,410	6,664
Atlantic	1,787	2,114	2,671	2,891	3,442	3,563	3,779	3,457
Central	2,128	2,334	3,030	2,356	2,575	3,001	2,560	2,145
West	749	762	1,016	1,020	999	1,181	1,071	1,062
State and region	2023						2022	
	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	6,149	5,306	4,333	3,530	71,011	96	68,629	96
Atlantic	2,928	1,861	2,022	1,497	32,012	47	27,808	48
Central	2,208	2,441	1,557	1,474	27,809	34	30,415	33
West	1,013	1,004	754	559	11,190	15	10,406	15

Other Frozen Dairy Products Production by Month – United States and Regions: 2023 and Total 2022-2023

State and region	2023							
	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	616	1,142	1,131	1,102	1,157	1,287	1,384	1,368
Atlantic	210	241	388	407	425	438	490	476
Central	363	703	535	654	662	693	736	801
West	43	198	208	41	70	156	158	91
State and region	2023						2022	
	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	1,208	1,065	951	838	13,249	50	12,743	49
Atlantic	431	439	367	233	4,545	28	4,243	25
Central	610	609	493	550	7,409	16	7,014	17
West	167	17	91	55	1,295	6	1,486	7

Dairy Plants Manufacturing One or More Dairy Products – States, United States, and Regions: 2019-2023

State and	2019	2020	2021	2022	2023
	(number)	(number)	(number)	(number)	(number)
Alabama	4	4	4	4	4
Alaska	-	-	-	-	-
Arizona	8	8	8	8	8
Arkansas	1	1	1	1	1
California	114	110	100	101	97
Colorado	8	8	7	7	7
Connecticut	29	28	28	27	27
Delaware	7	7	7	7	7
Florida	53	51	48	50	45
Georgia	6	5	6	5	3
Hawaii	6	6	6	6	6
Idaho	17	17	17	17	17
Illinois	34	27	31	24	19
Indiana	20	20	21	19	18
Iowa	23	26	26	29	29
Kansas	7	7	7	7	7
Kentucky	13	14	13	14	14
Louisiana	2	2	2	2	2
Maine	27	23	22	22	21
Maryland	14	12	12	12	11
Massachusetts	38	34	32	31	32
Michigan	47	48	47	47	46
Minnesota	30	28	28	28	31
Mississippi	1	1	1	1	1
Missouri	13	11	11	10	11
Montana	7	8	8	8	8
Nebraska	7	7	7	7	7
Nevada	5	4	4	4	4
New Hampshire	11	11	11	11	11
New Jersey	49	48	50	48	49
New Mexico	6	6	6	6	6
New York	122	124	119	120	119
North Carolina	16	16	15	13	13
North Dakota	2	2	2	2	2
Ohio	63	62	63	62	62
Oklahoma	4	4	4	4	4
Oregon	18	17	17	17	17
Pennsylvania	84	81	80	80	82
Rhode Island	4	4	4	4	4
South Carolina	2	2	2	3	2
South Dakota	9	9	9	10	10
Tennessee	10	11	11	11	8
Texas	36	32	33	32	32
Utah	20	20	18	18	18
Vermont	59	54	49	50	47
Virginia	3	4	4	5	5
Washington	10	10	10	10	10
West Virginia	2	2	2	2	2
Wisconsin	199	195	188	198	197
Wyoming	-	-	-	-	-
United States	1,270	1,231	1,201	1,204	1,183
Atlantic	526	506	491	490	480
Central	525	511	509	512	505
West	219	214	201	202	198

- 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 2023, there were 1,183 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@usda.gov.

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