



Dairy Products

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November 2023 Highlights

Total cheese output (excluding cottage cheese) was 1.16 billion pounds, 0.7 percent above November 2022 but 2.6 percent below October 2023.

Italian type cheese production totaled 485 million pounds, 0.7 percent below November 2022 and 4.2 percent below October 2023.

American type cheese production totaled 469 million pounds, 0.7 percent above November 2022 but 0.2 percent below October 2023.

Butter production was 165 million pounds, 3.7 percent below November 2022 but 1.8 percent above October 2023.

Dry milk products (comparisons in percentage with November 2022)

Nonfat dry milk, human - 116 million pounds, down 28.0 percent.

Skim milk powder - 57.9 million pounds, up 17.8 percent.

Whey products (comparisons in percentage with November 2022)

Dry whey, total - 67.5 million pounds, down 6.4 percent.

Lactose, human and animal - 85.8 million pounds, down 3.1 percent.

Whey protein concentrate, total - 39.3 million pounds, down 1.5 percent.

Frozen products (comparisons in percentage with November 2022)

Ice cream, regular (hard) - 52.1 million gallons, down 3.8 percent.

Ice cream, lowfat (total) - 27.8 million gallons, down 4.5 percent.

Sherbet (hard) - 1.51 million gallons, down 9.5 percent.

Frozen yogurt (total) - 2.63 million gallons, down 1.2 percent.

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Dairy Products Production by Product – United States: November 2022 and 2023

Product	November 2022	October 2023	November 2023	Change from	
				November 2022	October 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Butter	171,461	162,325	165,183	-3.7	1.8
Cheese					
American types ¹	466,253	470,128	469,407	0.7	-0.2
Cheddar	323,788	328,858	322,570	-0.4	-1.9
Other American types	142,465	141,270	146,837	3.1	3.9
Blue and Gorgonzola	7,744	7,323	7,059	-8.8	-3.6
Brick and Muenster	15,748	16,307	16,752	6.4	2.7
Cream and Neufchatel	86,822	99,452	91,737	5.7	-7.8
Feta	9,758	15,118	11,547	18.3	-23.6
Gouda	5,146	3,816	5,471	6.3	43.4
Hispanic	33,852	35,609	36,151	6.8	1.5
Italian types	488,746	506,674	485,353	-0.7	-4.2
Mozzarella	384,171	399,380	380,710	-0.9	-4.7
Parmesan	41,034	40,719	38,220	-6.9	-6.1
Provolone	31,081	31,649	30,563	-1.7	-3.4
Ricotta	20,216	23,583	23,226	14.9	-1.5
Romano	4,407	4,027	5,442	23.5	35.1
Other Italian types	7,837	7,316	7,192	-8.2	-1.7
Swiss	29,491	26,139	26,383	-10.5	0.9
All other types	12,593	13,687	13,879	10.2	1.4
Total cheese ²	1,156,153	1,194,253	1,163,739	0.7	-2.6
Cottage cheese, curd ³	28,464	33,413	30,910	8.6	-7.5
Cottage cheese, cream ⁴	28,478	31,486	31,280	9.8	-0.7
Cottage cheese, lowfat ⁵	22,035	29,659	25,989	17.9	-12.4
Sour cream	133,978	139,526	143,639	7.2	2.9
Yogurt, plain and flavored	337,045	390,148	352,143	4.5	-9.7
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
Frozen products					
Ice cream, regular, hard	54,126	57,432	52,087	-3.8	-9.3
Ice cream, lowfat, hard	14,696	19,549	15,968	8.7	-18.3
Ice cream, lowfat, soft	14,379	12,744	11,785	-18.0	-7.5
Ice cream, lowfat, total ⁶	29,075	32,293	27,753	-4.5	-14.1
Ice cream, nonfat, hard	498	775	555	11.4	-28.4
Sherbet, hard	1,671	1,702	1,512	-9.5	-11.2
Frozen yogurt, total	2,664	3,782	2,631	-1.2	-30.4
Regular and lowfat, hard	879	1,115	823	-6.4	-26.2
Nonfat, hard	208	377	231	11.1	-38.7
Other frozen dairy products	865	1,027	858	-0.8	-16.5
Water and juice ices	4,773	5,326	4,749	-0.5	-10.8
Mix for frozen products					
Ice cream, regular, mix	34,367	36,204	32,730	-4.8	-9.6
Ice cream, lowfat, mix ⁷	15,135	17,920	15,461	2.2	-13.7
Ice cream, nonfat, mix	416	502	340	-18.3	-32.3
Sherbet mix	1,257	1,343	1,148	-8.7	-14.5
Yogurt mix	1,984	2,151	1,837	-7.4	-14.6

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

² Excludes Cottage Cheese.

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

⁴ Fat content 4 percent or more.

⁵ Fat content less than 4 percent.

⁶ Includes freezer-made milkshake.

⁷ Includes milkshake mix.

**Whey and Modified Whey Products Production, Stocks, and Prices – United States:
November 2022 and 2023**

Product	November 2022	October 2023	November 2023	Change from	
				November 2022	October 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Condensed whey, solids content ¹					
Sweet-type, human	9,237	9,800	7,179	-22.3	-26.7
Dry whey products					
Dry whey, human	70,227	70,513	62,602	-10.9	-11.2
Dry whey, animal	1,814	3,803	4,860	167.9	27.8
Dry whey, total	72,041	74,316	67,462	-6.4	-9.2
Reduced lactose and minerals					
Human	3,187	471	502	-84.2	6.6
Animal	3,037	2,852	2,985	-1.7	4.7
Whey protein concentrate					
Human ²	38,772	38,445	38,239	-1.4	-0.5
Animal ²	1,135	1,103	1,086	-4.3	-1.5
Total ²	39,907	39,548	39,325	-1.5	-0.6
25.0-49.9 percent ³	14,768	12,184	12,294	-16.8	0.9
50.0-89.9 percent ³	25,139	27,364	27,031	7.5	-1.2
Whey protein isolates ⁴	9,015	10,351	10,496	16.4	1.4
Lactose, human and animal	88,620	90,060	85,848	-3.1	-4.7
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	71,678	71,340	66,908	-6.7	-6.2
Dry whey, animal	1,290	4,074	4,095	217.4	0.5
Dry whey, total	72,968	75,414	71,003	-2.7	-5.8
Reduced Lactose and minerals					
Human and animal ⁶	12,278	7,162	7,032	-42.7	-1.8
Whey protein concentrate					
Human ²	74,604	61,393	63,116	-15.4	2.8
Animal ²	1,038	1,102	1,404	35.3	27.4
Total ²	75,642	62,495	64,520	-14.7	3.2
25.0-49.9 percent ³	26,381	27,057	25,420	-3.6	-6.1
50.0-89.9 percent ³	49,261	35,438	39,100	-20.6	10.3
Whey protein isolates ⁴	22,317	17,664	18,355	-17.8	3.9
Lactose, human and animal	171,585	113,821	116,032	-32.4	1.9
	(cents per pound)	(cents per pound)	(cents per pound)	(cents change)	(cents change)
Manufacturers' selling price ⁷					
Dry whey, animal	15.5	21.5	21.1	5.7	-0.4

¹ Final marketable product only. Does not include quantity used or shipped to another plant for further processing into dry whey or modified whey products. Does not include sweet-type, animal whey.

² Whey protein concentrate, 25.0 to 89.9 percent.

³ Whey protein concentrate, human and animal.

⁴ Whey protein isolate, 90.0 percent or greater.

⁵ Stocks held by manufacturers at all points and in transit.

⁶ Reduced lactose and minerals stocks combined to avoid disclosure of individual operations.

⁷ Prices for bulk goods, f.o.b. plant. Average monthly prices reported by firms.

**Condensed and Dry Milk Products Production, Stocks, and Shipments – United States:
November 2022 and 2023**

Product	November 2022	October 2023	November 2023	Change from	
				November 2022	October 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Production					
Bulk condensed milk					
Skim, unsweetened	98,941	114,988	104,392	5.5	-9.2
Dry milk products					
Dry buttermilk, total	12,548	12,456	10,781	-14.1	-13.4
Dry skim milk, animal	615	585	565	-8.1	-3.4
Dry whole milk	10,580	9,461	10,000	-5.5	5.7
Milk protein concentrate, total ¹	14,686	15,385	15,422	5.0	0.2
Nonfat dry milk, human	160,743	127,425	115,688	-28.0	-9.2
Skim milk powder, total ²	49,110	43,485	57,864	17.8	33.1
Manufacturers' stocks end-of-month ³					
Dry milk products					
Dry buttermilk, total	34,623	25,659	26,948	-22.2	5.0
Dry skim milk, animal	7,203	11,654	8,114	12.6	-30.4
Dry whole milk	14,366	8,137	10,218	-28.9	25.6
Nonfat dry milk, human	251,552	216,647	208,929	-16.9	-3.6
Manufacturers' shipments ⁴					
Dry milk products					
Nonfat dry milk, human	162,495	145,385	117,347	-27.8	-19.3

¹ Dry milk protein concentrate, 40-89.9 percent.

² Includes protein standardized and blends.

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

⁴ For dry products, shipments of bulk goods.

Dairy Products Production by Product and Month – United States: 2022 and 2023

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

Product and month	Monthly			Cumulative		
	2022	2023	Change from 2022	2022	2023	Change from 2022
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Total cheese ¹						
January	1,178,278	1,205,337	2.3	1,178,278	1,205,337	2.3
February	1,091,747	1,100,262	0.8	2,270,025	2,305,599	1.6
March	1,231,174	1,231,918	0.1	3,501,199	3,537,517	1.0
April	1,173,437	1,169,980	-0.3	4,674,636	4,707,497	0.7
May	1,204,698	1,203,666	-0.1	5,879,334	5,911,163	0.5
June	1,165,799	1,170,317	0.4	7,045,133	7,081,480	0.5
July	1,170,138	1,155,782	-1.2	8,215,271	8,237,262	0.3
August	1,157,264	1,156,500	-0.1	9,372,535	9,393,762	0.2
September	1,150,810	1,149,658	-0.1	10,523,345	10,543,420	0.2
October	1,184,538	1,194,253	0.8	11,707,883	11,737,673	0.3
November	1,156,153	1,163,739	0.7	12,864,036	12,901,412	0.3
December	1,198,739			14,062,775		
Total American cheese types ²						
January	483,756	498,646	3.1	483,756	498,646	3.1
February	436,283	443,179	1.6	920,039	941,825	2.4
March	482,811	498,889	3.3	1,402,850	1,440,714	2.7
April	477,133	485,838	1.8	1,879,983	1,926,552	2.5
May	488,333	510,181	4.5	2,368,316	2,436,733	2.9
June	466,040	473,627	1.6	2,834,356	2,910,360	2.7
July	473,984	468,347	-1.2	3,308,340	3,378,707	2.1
August	457,667	458,648	0.2	3,766,007	3,837,355	1.9
September	446,931	462,501	3.5	4,212,938	4,299,856	2.1
October	475,411	470,128	-1.1	4,688,349	4,769,984	1.7
November	466,253	469,407	0.7	5,154,602	5,239,391	1.6
December	485,708			5,640,310		
Cheddar cheese						
January	344,643	353,921	2.7	344,643	353,921	2.7
February	306,347	317,059	3.5	650,990	670,980	3.1
March	333,498	348,055	4.4	984,488	1,019,035	3.5
April	327,173	345,668	5.7	1,311,661	1,364,703	4.0
May	339,704	356,583	5.0	1,651,365	1,721,286	4.2
June	341,624	338,004	-1.1	1,992,989	2,059,290	3.3
July	340,236	323,377	-5.0	2,333,225	2,382,667	2.1
August	318,114	313,182	-1.6	2,651,339	2,695,849	1.7
September	305,153	311,284	2.0	2,956,492	3,007,133	1.7
October	340,233	328,858	-3.3	3,296,725	3,335,991	1.2
November	323,788	322,570	-0.4	3,620,513	3,658,561	1.1
December	343,228			3,963,741		

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2022 and 2023 (continued)

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

Product and month	Monthly			Cumulative		
	2022	2023	Change from 2022	2022	2023	Change from 2022
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Total Italian cheese types						
January	485,660	499,904	2.9	485,660	499,904	2.9
February	457,311	458,867	0.3	942,971	958,771	1.7
March	519,279	512,918	-1.2	1,462,250	1,471,689	0.6
April	491,105	479,150	-2.4	1,953,355	1,950,839	-0.1
May	496,930	482,542	-2.9	2,450,285	2,433,381	-0.7
June	485,592	480,836	-1.0	2,935,877	2,914,217	-0.7
July	488,763	482,907	-1.2	3,424,640	3,397,124	-0.8
August	486,732	483,985	-0.6	3,911,372	3,881,109	-0.8
September	496,490	479,742	-3.4	4,407,862	4,360,851	-1.1
October	499,233	506,674	1.5	4,907,095	4,867,525	-0.8
November	488,746	485,353	-0.7	5,395,841	5,352,878	-0.8
December	508,061			5,903,902		
Mozzarella						
January	376,548	393,111	4.4	376,548	393,111	4.4
February	356,604	361,531	1.4	733,152	754,642	2.9
March	408,184	401,721	-1.6	1,141,336	1,156,363	1.3
April	386,577	380,896	-1.5	1,527,913	1,537,259	0.6
May	377,519	379,497	0.5	1,905,432	1,916,756	0.6
June	386,708	380,049	-1.7	2,292,140	2,296,805	0.2
July	392,366	382,947	-2.4	2,684,506	2,679,752	-0.2
August	383,858	382,496	-0.4	3,068,364	3,062,248	-0.2
September	385,587	379,942	-1.5	3,453,951	3,442,190	-0.3
October	390,597	399,380	2.2	3,844,548	3,841,570	-0.1
November	384,171	380,710	-0.9	4,228,719	4,222,280	-0.2
December	399,393			4,628,112		
Other Italian cheese types						
January	7,990	7,155	-10.5	7,990	7,155	-10.5
February	7,233	6,580	-9.0	15,223	13,735	-9.8
March	8,836	7,398	-16.3	24,059	21,133	-12.2
April	8,067	9,487	17.6	32,126	30,620	-4.7
May	8,069	7,195	-10.8	40,195	37,815	-5.9
June	8,091	6,795	-16.0	48,286	44,610	-7.6
July	7,420	6,526	-12.0	55,706	51,136	-8.2
August	7,150	7,048	-1.4	62,856	58,184	-7.4
September	8,237	6,540	-20.6	71,093	64,724	-9.0
October	7,931	7,316	-7.8	79,024	72,040	-8.8
November	7,837	7,192	-8.2	86,861	79,232	-8.8
December	8,583			95,444		

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2022 and 2023 (continued)

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

Product and month	Monthly			Cumulative		
	2022	2023	Change from 2022	2022	2023	Change from 2022
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Butter						
January	196,236	201,347	2.6	196,236	201,347	2.6
February	183,333	187,200	2.1	379,569	388,547	2.4
March	202,211	204,964	1.4	581,780	593,511	2.0
April	181,303	196,909	8.6	763,083	790,420	3.6
May	179,812	194,581	8.2	942,895	985,001	4.5
June	158,979	162,129	2.0	1,101,874	1,147,130	4.1
July	151,755	159,267	5.0	1,253,629	1,306,397	4.2
August	142,959	139,969	-2.1	1,396,588	1,446,366	3.6
September	140,552	142,737	1.6	1,537,140	1,589,103	3.4
October	162,114	162,325	0.1	1,699,254	1,751,428	3.1
November	171,461	165,183	-3.7	1,870,715	1,916,611	2.5
December	188,022			2,058,737		
Nonfat dry milk, human						
January	170,437	174,953	2.6	170,437	174,953	2.6
February	168,997	182,528	8.0	339,434	357,481	5.3
March	191,815	199,448	4.0	531,249	556,929	4.8
April	195,821	198,595	1.4	727,070	755,524	3.9
May	192,677	208,766	8.4	919,747	964,290	4.8
June	168,971	178,017	5.4	1,088,718	1,142,307	4.9
July	165,726	135,135	-18.5	1,254,444	1,277,442	1.8
August	133,625	110,809	-17.1	1,388,069	1,388,251	(Z)
September	122,804	100,666	-18.0	1,510,873	1,488,917	-1.5
October	129,037	127,425	-1.2	1,639,910	1,616,342	-1.4
November	160,743	115,688	-28.0	1,800,653	1,732,030	-3.8
December	167,711			1,968,364		
Skim milk powder, total ³						
January	51,932	44,580	-14.2	51,932	44,580	-14.2
February	40,138	37,199	-7.3	92,070	81,779	-11.2
March	42,902	35,252	-17.8	134,972	117,031	-13.3
April	44,613	34,783	-22.0	179,585	151,814	-15.5
May	50,753	34,678	-31.7	230,338	186,492	-19.0
June	54,406	37,410	-31.2	284,744	223,902	-21.4
July	61,008	60,669	-0.6	345,752	284,571	-17.7
August	65,551	59,575	-9.1	411,303	344,146	-16.3
September	68,422	55,650	-18.7	479,725	399,796	-16.7
October	65,285	43,485	-33.4	545,010	443,281	-18.7
November	49,110	57,864	17.8	594,120	501,145	-15.6
December	63,766			657,886		

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2022 and 2023 (continued)

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

Product and month	Monthly			Cumulative		
	2022	2023	Change from 2022	2022	2023	Change from 2022
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Dry whey, total ⁴						
January	72,766	76,713	5.4	72,766	76,713	5.4
February	68,293	66,824	-2.2	141,059	143,537	1.8
March	77,764	77,542	-0.3	218,823	221,079	1.0
April	79,446	79,592	0.2	298,269	300,671	0.8
May	79,205	81,777	3.2	377,474	382,448	1.3
June	80,062	84,544	5.6	457,536	466,992	2.1
July	84,287	87,861	4.2	541,823	554,853	2.4
August	75,314	82,826	10.0	617,137	637,679	3.3
September	75,792	76,792	1.3	692,929	714,471	3.1
October	75,348	74,316	-1.4	768,277	788,787	2.7
November	72,041	67,462	-6.4	840,318	856,249	1.9
December	74,930			915,248		
Lactose, human and animal						
January	94,587	88,959	-6.0	94,587	88,959	-6.0
February	84,943	82,682	-2.7	179,530	171,641	-4.4
March	93,521	98,547	5.4	273,051	270,188	-1.0
April	96,162	91,420	-4.9	369,213	361,608	-2.1
May	94,985	94,083	-0.9	464,198	455,691	-1.8
June	98,429	97,381	-1.1	562,627	553,072	-1.7
July	95,345	92,704	-2.8	657,972	645,776	-1.9
August	93,173	92,311	-0.9	751,145	738,087	-1.7
September	91,193	94,356	3.5	842,338	832,443	-1.2
October	91,462	90,060	-1.5	933,800	922,503	-1.2
November	88,620	85,848	-3.1	1,022,420	1,008,351	-1.4
December	89,419			1,111,839		
Whey protein concentrate, total						
January	38,640	41,517	7.4	38,640	41,517	7.4
February	35,081	37,173	6.0	73,721	78,690	6.7
March	36,764	42,501	15.6	110,485	121,191	9.7
April	36,914	41,663	12.9	147,399	162,854	10.5
May	36,329	43,829	20.6	183,728	206,683	12.5
June	36,215	42,401	17.1	219,943	249,084	13.2
July	36,463	42,053	15.3	256,406	291,137	13.5
August	35,120	39,932	13.7	291,526	331,069	13.6
September	38,654	39,688	2.7	330,180	370,757	12.3
October	39,326	39,548	0.6	369,506	410,305	11.0
November	39,907	39,325	-1.5	409,413	449,630	9.8
December	41,708			451,121		

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2022 and 2023 (continued)

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

Product and month	Monthly			Cumulative		
	2022	2023	Change from 2022	2022	2023	Change from 2022
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Cottage cheese, cream						
January	27,872	28,894	3.7	27,872	28,894	3.7
February	28,301	29,357	3.7	56,173	58,251	3.7
March	29,527	33,090	12.1	85,700	91,341	6.6
April	26,629	28,368	6.5	112,329	119,709	6.6
May	27,362	33,021	20.7	139,691	152,730	9.3
June	29,366	32,271	9.9	169,057	185,001	9.4
July	28,727	32,233	12.2	197,784	217,234	9.8
August	31,436	34,401	9.4	229,220	251,635	9.8
September	29,634	32,330	9.1	258,854	283,965	9.7
October	27,832	31,486	13.1	286,686	315,451	10.0
November	28,478	31,280	9.8	315,164	346,731	10.0
December	29,136			344,300		
Cottage cheese, lowfat						
January	24,194	26,110	7.9	24,194	26,110	7.9
February	24,674	24,320	-1.4	48,868	50,430	3.2
March	26,571	25,899	-2.5	75,439	76,329	1.2
April	24,821	24,605	-0.9	100,260	100,934	0.7
May	23,930	28,066	17.3	124,190	129,000	3.9
June	24,359	27,307	12.1	148,549	156,307	5.2
July	24,826	29,280	17.9	173,375	185,587	7.0
August	27,427	32,495	18.5	200,802	218,082	8.6
September	25,420	31,564	24.2	226,222	249,646	10.4
October	23,911	29,659	24.0	250,133	279,305	11.7
November	22,035	25,989	17.9	272,168	305,294	12.2
December	21,858			294,026		
Sour cream						
January	124,280	126,074	1.4	124,280	126,074	1.4
February	116,771	113,600	-2.7	241,051	239,674	-0.6
March	126,440	125,905	-0.4	367,491	365,579	-0.5
April	116,700	117,517	0.7	484,191	483,096	-0.2
May	125,804	127,349	1.2	609,995	610,445	0.1
June	123,165	127,333	3.4	733,160	737,778	0.6
July	115,623	117,830	1.9	848,783	855,608	0.8
August	127,030	123,536	-2.8	975,813	979,144	0.3
September	121,170	116,079	-4.2	1,096,983	1,095,223	-0.2
October	131,035	139,526	6.5	1,228,018	1,234,749	0.5
November	133,978	143,639	7.2	1,361,996	1,378,388	1.2
December	133,622			1,495,618		

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2022 and 2023 (continued)

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

Product and month	Monthly			Cumulative		
	2022	2023	Change from 2022	2022	2023	Change from 2022
	(1,000 gallons)	(1,000 gallons)	(percent)	(1,000 gallons)	(1,000 gallons)	(percent)
Ice cream, regular hard						
January	54,581	52,963	-3.0	54,581	52,963	-3.0
February	54,354	58,382	7.4	108,935	111,345	2.2
March	66,216	66,245	(Z)	175,151	177,590	1.4
April	65,427	61,008	-6.8	240,578	238,598	-0.8
May	62,248	63,592	2.2	302,826	302,190	-0.2
June	66,973	67,211	0.4	369,799	369,401	-0.1
July	61,063	61,962	1.5	430,862	431,363	0.1
August	65,493	66,453	1.5	496,355	497,816	0.3
September	63,076	62,527	-0.9	559,431	560,343	0.2
October	59,468	57,432	-3.4	618,899	617,775	-0.2
November	54,126	52,087	-3.8	673,025	669,862	-0.5
December	53,665			726,690		
Ice cream, lowfat total						
January	31,874	29,018	-9.0	31,874	29,018	-9.0
February	34,297	31,897	-7.0	66,171	60,915	-7.9
March	42,726	39,634	-7.2	108,897	100,549	-7.7
April	40,423	37,670	-6.8	149,320	138,219	-7.4
May	41,179	40,755	-1.0	190,499	178,974	-6.0
June	43,257	41,917	-3.1	233,756	220,891	-5.5
July	40,620	42,214	3.9	274,376	263,105	-4.1
August	42,693	40,681	-4.7	317,069	303,786	-4.2
September	37,344	33,374	-10.6	354,413	337,160	-4.9
October	35,656	32,293	-9.4	390,069	369,453	-5.3
November	29,075	27,753	-4.5	419,144	397,206	-5.2
December	27,182			446,326		
Sherbet, hard						
January	1,833	1,971	7.5	1,833	1,971	7.5
February	2,003	2,308	15.2	3,836	4,279	11.5
March	2,614	1,969	-24.7	6,450	6,248	-3.1
April	1,991	2,047	2.8	8,441	8,295	-1.7
May	2,040	2,007	-1.6	10,481	10,302	-1.7
June	2,065	1,914	-7.3	12,546	12,216	-2.6
July	2,224	1,639	-26.3	14,770	13,855	-6.2
August	2,003	1,869	-6.7	16,773	15,724	-6.3
September	1,981	1,637	-17.4	18,754	17,361	-7.4
October	2,161	1,702	-21.2	20,915	19,063	-8.9
November	1,671	1,512	-9.5	22,586	20,575	-8.9
December	1,678			24,264		

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2022 and 2023 (continued)

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

Product and month	Monthly			Cumulative		
	2022	2023	Change from 2022	2022	2023	Change from 2022
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Yogurt, plain and flavored						
January	372,907	391,637	5.0	372,907	391,637	5.0
February	376,866	400,599	6.3	749,773	792,236	5.7
March	429,558	440,775	2.6	1,179,331	1,233,011	4.6
April	373,945	382,713	2.3	1,553,276	1,615,724	4.0
May	399,140	404,050	1.2	1,952,416	2,019,774	3.4
June	391,060	401,095	2.6	2,343,476	2,420,869	3.3
July	379,818	400,464	5.4	2,723,294	2,821,333	3.6
August	402,223	409,566	1.8	3,125,517	3,230,899	3.4
September	398,067	417,544	4.9	3,523,584	3,648,443	3.5
October	391,563	390,148	-0.4	3,915,147	4,038,591	3.2
November	337,045	352,143	4.5	4,252,192	4,390,734	3.3
December	371,368			4,623,560		
	(1,000 gallons)	(1,000 gallons)	(percent)	(1,000 gallons)	(1,000 gallons)	(percent)
Frozen yogurt, total						
January	2,765	3,467	25.4	2,765	3,467	25.4
February	3,711	4,340	16.9	6,476	7,807	20.6
March	4,066	3,296	-18.9	10,542	11,103	5.3
April	3,509	3,496	-0.4	14,051	14,599	3.9
May	4,764	4,374	-8.2	18,815	18,973	0.8
June	4,572	4,577	0.1	23,387	23,550	0.7
July	5,005	4,903	-2.0	28,392	28,453	0.2
August	3,940	4,217	7.0	32,332	32,670	1.0
September	3,115	2,962	-4.9	35,447	35,632	0.5
October	3,826	3,782	-1.2	39,273	39,414	0.4
November	2,664	2,631	-1.2	41,937	42,045	0.3
December	3,675			45,612		

(Z) Less than half of the unit shown.

¹ Excludes Cottage Cheese.

² Includes Cheddar, Colby, washed curd, stirred curd, Monterey, and Jack.

³ Includes protein standardized and blends.

⁴ Excludes all modified dry whey products.

**Total Cheese Production Excluding Cottage Cheese – States, United States, and Regions:
November 2022 and 2023**

State and region	November 2022	October 2023	November 2023	Change from	
				November 2022	October 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	206,297	209,966	210,323	2.0	0.2
Idaho	74,507	89,284	76,734	3.0	-14.1
Illinois	6,005	5,141	5,437	-9.5	5.8
Iowa	34,025	32,035	32,355	-4.9	1.0
Minnesota	67,386	66,408	64,701	-4.0	-2.6
New Jersey	5,426	6,324	5,610	3.4	-11.3
New Mexico	80,741	85,214	82,689	2.4	-3.0
New York	69,806	81,132	72,886	4.4	-10.2
Ohio	21,286	20,562	21,110	-0.8	2.7
Pennsylvania	35,348	37,901	36,531	3.3	-3.6
South Dakota	42,752	45,986	45,652	6.8	-0.7
Vermont	12,568	12,286	12,009	-4.4	-2.3
Wisconsin	285,983	297,181	291,153	1.8	-2.0
Other States ¹	214,023	204,833	206,549	-3.5	0.8
United States	1,156,153	1,194,253	1,163,739	0.7	-2.6
Atlantic	134,866	149,543	139,076	3.1	-7.0
Central	563,754	569,071	565,571	0.3	-0.6
West	457,533	475,639	459,092	0.3	-3.5

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

American Cheese Production – States, United States, and Regions: November 2022 and 2023

State and region	November 2022	October 2023	November 2023	Change from	
				November 2022	October 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	45,032	42,757	46,399	3.0	8.5
Iowa	18,961	15,779	16,751	-11.7	6.2
Minnesota	55,582	55,506	55,008	-1.0	-0.9
New York	11,827	12,352	11,305	-4.4	-8.5
Wisconsin	88,226	90,205	89,700	1.7	-0.6
Other States ¹	246,625	253,529	250,244	1.5	-1.3
United States	466,253	470,128	469,407	0.7	-0.2
Atlantic	28,763	29,351	27,926	-2.9	-4.9
Central	253,819	250,382	253,915	(Z)	1.4
West	183,671	190,395	187,566	2.1	-1.5

(Z) Less than half of the unit shown.

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

Cheddar Cheese Production – States, United States, and Regions: November 2022 and 2023

State and region	November 2022	October 2023	November 2023	Change from	
				November 2022	October 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	22,890	19,614	19,679	-14.0	0.3
Vermont	9,073	8,747	8,653	-4.6	-1.1
Wisconsin	57,988	58,289	57,800	-0.3	-0.8
Other States ¹	233,837	242,208	236,438	1.1	-2.4
United States	323,788	328,858	322,570	-0.4	-1.9
Atlantic	26,592	27,189	26,130	-1.7	-3.9
Central	169,729	167,345	167,707	-1.2	0.2
West	127,467	134,324	128,733	1.0	-4.2

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

Total Italian Cheese Production – States, United States, and Regions: November 2022 and 2023

State and region	November 2022	October 2023	November 2023	Change from	
				November 2022	October 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	136,176	140,757	137,171	0.7	-2.5
Minnesota	11,490	10,793	9,587	-16.6	-11.2
New Jersey	2,708	3,251	2,714	0.2	-16.5
New York	29,918	31,218	30,757	2.8	-1.5
Pennsylvania	20,820	22,795	21,696	4.2	-4.8
Wisconsin	139,329	142,684	140,664	1.0	-1.4
Other States ¹	148,305	155,176	142,764	-3.7	-8.0
United States	488,746	506,674	485,353	-0.7	-4.2
Atlantic	57,324	60,900	59,091	3.1	-3.0
Central	208,017	212,281	206,494	-0.7	-2.7
West	223,405	233,493	219,768	-1.6	-5.9

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

Mozzarella Cheese Production – States, United States, and Regions: November 2022 and 2023

State and region	November 2022	October 2023	November 2023	Change from	
				November 2022	October 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	126,011	129,307	126,297	0.2	-2.3
New Jersey	1,283	1,341	1,250	-2.6	-6.8
New York	14,349	13,764	13,895	-3.2	1.0
Pennsylvania	16,699	18,900	17,378	4.1	-8.1
Wisconsin	88,473	92,624	91,500	3.4	-1.2
Other States ¹	137,356	143,444	130,390	-5.1	-9.1
United States	384,171	399,380	380,710	-0.9	-4.7
Atlantic	35,221	36,604	35,418	0.6	-3.2
Central	136,900	142,046	137,787	0.6	-3.0
West	212,050	220,730	207,505	-2.1	-6.0

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

Butter Production – States, United States, and Regions: November 2022 and 2023

State and region	November 2022	October 2023	November 2023	Change from	
				November 2022	October 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	56,379	50,979	51,630	-8.4	1.3
Pennsylvania	7,078	6,963	6,752	-4.6	-3.0
Other States ¹	108,004	104,383	106,801	-1.1	2.3
United States	171,461	162,325	165,183	-3.7	1.8
Atlantic	12,975	12,214	11,991	-7.6	-1.8
Central	66,404	63,434	62,244	-6.3	-1.9
West	92,082	86,677	90,948	-1.2	4.9

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

Nonfat Dry Milk (Human) Production – States, United States, and Regions: November 2022 and 2023

State and region	November 2022	October 2023	November 2023	Change from	
				November 2022	October 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	73,518	55,810	43,156	-41.3	-22.7
Pennsylvania	13,684	10,321	10,878	-20.5	5.4
Wisconsin	1,434	1,520	673	-53.1	-55.7
Other States ¹	72,107	59,774	60,981	-15.4	2.0
United States	160,743	127,425	115,688	-28.0	-9.2
Atlantic	24,703	19,905	20,544	-16.8	3.2
Central	32,337	28,188	24,990	-22.7	-11.3
West	103,703	79,332	70,154	-32.4	-11.6

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

Dry Whey (Human) Production – States, United States, and Regions: November 2022 and 2023

State and region	November 2022	October 2023	November 2023	Change from	
				November 2022	October 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
New York	10,412	10,566	10,855	4.3	2.7
Wisconsin	22,973	20,790	20,297	-11.6	-2.4
Other States ¹	36,842	39,157	31,450	-14.6	-19.7
United States	70,227	70,513	62,602	-10.9	-11.2
Atlantic	19,139	20,247	19,731	3.1	-2.5
Central	33,931	33,643	30,231	-10.9	-10.1
West	17,157	16,623	12,640	-26.3	-24.0

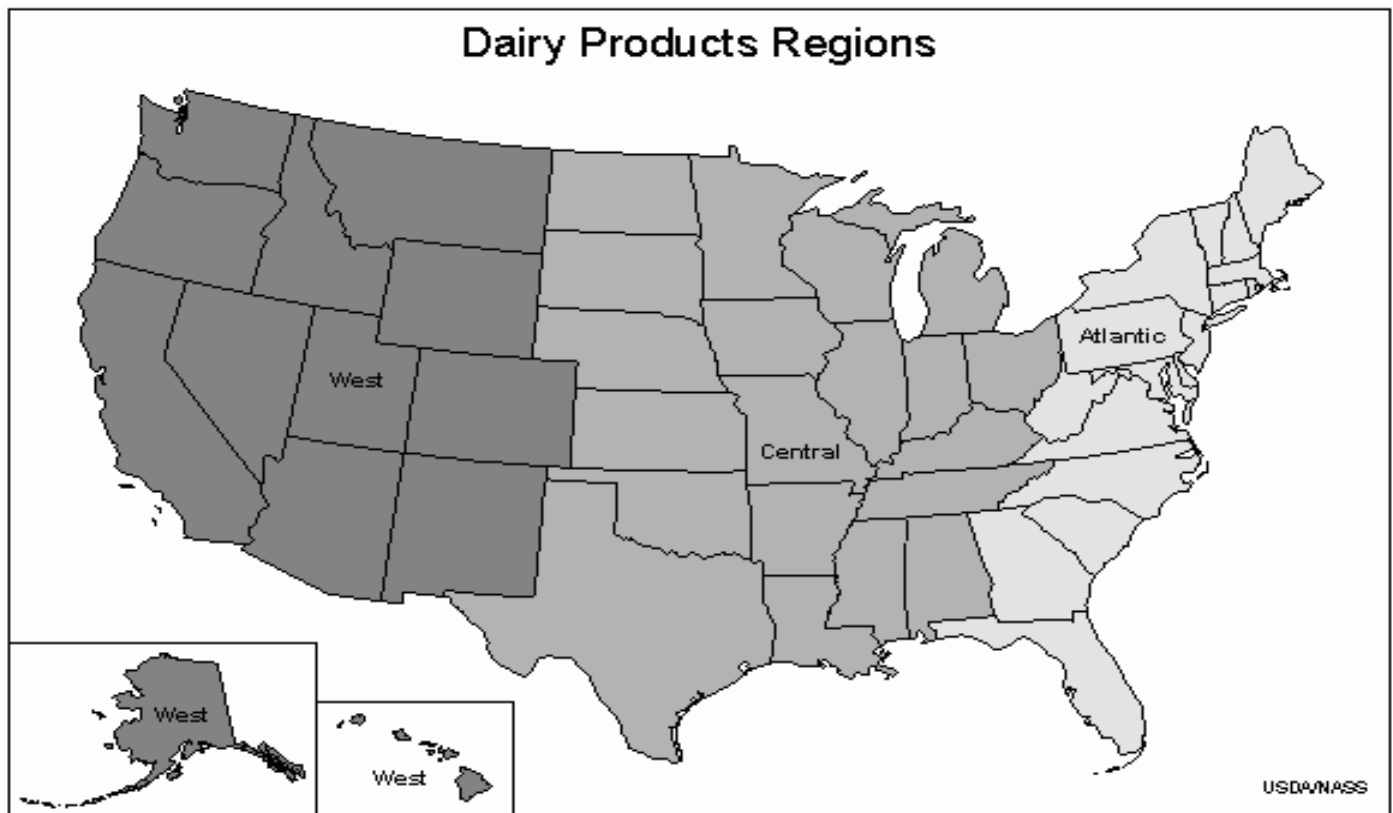
¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Ice Cream, Regular (Hard) Production – States, United States, and Regions: November 2022 and 2023

State and region	November 2022	October 2023	November 2023	Change from	
				November 2022	October 2023
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
California	5,330	6,127	5,512	3.4	-10.0
Connecticut	1,277	1,021	1,140	-10.7	11.7
New York	1,544	2,081	1,742	12.8	-16.3
Ohio	2,153	2,136	1,983	-7.9	-7.2
Oregon	932	1,071	904	-3.0	-15.6
Pennsylvania	3,240	3,053	3,113	-3.9	2.0
Tennessee	2,088	2,147	2,035	-2.5	-5.2
Utah	1,272	1,291	1,162	-8.6	-10.0
Wisconsin	572	561	572	-	2.0
Other States ¹	35,718	37,944	33,924	-5.0	-10.6
United States	54,126	57,432	52,087	-3.8	-9.3
Atlantic	12,604	12,697	11,310	-10.3	-10.9
Central	32,620	34,541	31,363	-3.9	-9.2
West	8,902	10,194	9,414	5.8	-7.7

- Represents zero.

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



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 2022, there were 1,201 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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