



Dairy Products

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October 2023 Highlights

Total cheese output (excluding cottage cheese) was 1.19 billion pounds, 0.8 percent above October 2022 and 3.9 percent above September 2023.

Italian type cheese production totaled 506 million pounds, 1.4 percent above October 2022 and 5.6 percent above September 2023.

American type cheese production totaled 474 million pounds, 0.3 percent below October 2022 but 2.5 percent above September 2023.

Butter production was 161 million pounds, 0.9 percent below October 2022 but 12.5 percent above September 2023.

Dry milk products (comparisons in percentage with October 2022)

Nonfat dry milk, human - 127 million pounds, down 1.2 percent.

Skim milk powder - 42.5 million pounds, down 34.9 percent.

Whey products (comparisons in percentage with October 2022)

Dry whey, total - 75.6 million pounds, up 0.4 percent.

Lactose, human and animal - 91.4 million pounds, down 0.1 percent.

Whey protein concentrate, total - 40.3 million pounds, up 2.5 percent.

Frozen products (comparisons in percentage with October 2022)

Ice cream, regular (hard) - 57.9 million gallons, down 2.6 percent.

Ice cream, lowfat (total) - 32.8 million gallons, down 8.1 percent.

Sherbet (hard) - 1.73 million gallons, down 20.2 percent.

Frozen yogurt (total) - 4.05 million gallons, up 5.8 percent.

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

Product	October 2022	September 2023	October 2023	Change from	
				October 2022	September 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Butter	162,114	142,737	160,608	-0.9	12.5
Cheese					
American types ¹	475,411	462,501	474,060	-0.3	2.5
Cheddar	340,233	311,284	331,846	-2.5	6.6
Other American types	135,178	151,217	142,214	5.2	-6.0
Blue and Gorgonzola	7,495	6,096	7,393	-1.4	21.3
Brick and Muenster	16,488	16,682	16,506	0.1	-1.1
Cream and Neufchatel	92,415	90,969	98,661	6.8	8.5
Feta	14,549	12,447	11,635	-20.0	-6.5
Gouda	3,486	4,572	3,562	2.2	-22.1
Hispanic	33,917	36,501	35,851	5.7	-1.8
Italian types	499,233	479,742	506,407	1.4	5.6
Mozzarella	390,597	379,942	399,420	2.3	5.1
Parmesan	43,214	35,264	40,542	-6.2	15.0
Provolone	32,349	32,651	31,567	-2.4	-3.3
Ricotta	21,019	21,506	23,581	12.2	9.6
Romano	4,123	3,839	4,030	-2.3	5.0
Other Italian types	7,931	6,540	7,267	-8.4	11.1
Swiss	26,958	26,641	26,532	-1.6	-0.4
All other types	14,586	13,507	13,756	-5.7	1.8
Total cheese ²	1,184,538	1,149,658	1,194,363	0.8	3.9
Cottage cheese, curd ³	29,255	34,292	32,355	10.6	-5.6
Cottage cheese, cream ⁴	27,832	32,330	30,236	8.6	-6.5
Cottage cheese, lowfat ⁵	23,911	31,564	28,958	21.1	-8.3
Sour cream	131,035	116,079	138,684	5.8	19.5
Yogurt, plain and flavored	391,563	417,544	386,455	-1.3	-7.4
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
Frozen products					
Ice cream, regular, hard	59,468	62,527	57,896	-2.6	-7.4
Ice cream, lowfat, hard	18,468	18,560	17,514	-5.2	-5.6
Ice cream, lowfat, soft	17,188	14,814	15,266	-11.2	3.1
Ice cream, lowfat, total ⁶	35,656	33,374	32,780	-8.1	-1.8
Ice cream, nonfat, hard	553	717	743	34.4	3.6
Sherbet, hard	2,161	1,637	1,725	-20.2	5.4
Frozen yogurt, total	3,826	2,962	4,049	5.8	36.7
Regular and lowfat, hard	984	838	1,115	13.3	33.1
Nonfat, hard	285	336	377	32.3	12.2
Other frozen dairy products	1,041	1,191	1,027	-1.3	-13.8
Water and juice ices	5,224	6,173	5,339	2.2	-13.5
Mix for frozen products					
Ice cream, regular, mix	38,451	38,353	36,260	-5.7	-5.5
Ice cream, lowfat, mix ⁷	18,094	18,639	18,359	1.5	-1.5
Ice cream, nonfat, mix	486	432	500	2.9	15.7
Sherbet mix	1,624	1,502	1,340	-17.5	-10.8
Yogurt mix	2,567	1,777	2,217	-13.6	24.8

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:
October 2022 and 2023**

Product	October 2022	September 2023	October 2023	Change from	
				October 2022	September 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Condensed whey, solids content ¹					
Sweet-type, human	10,377	8,681	9,603	-7.5	10.6
Dry whey products					
Dry whey, human	74,086	73,721	72,187	-2.6	-2.1
Dry whey, animal	1,262	3,071	3,440	172.6	12.0
Dry whey, total	75,348	76,792	75,627	0.4	-1.5
Reduced lactose and minerals					
Human	3,058	679	465	-84.8	-31.5
Animal	2,819	2,731	2,896	2.7	6.0
Whey protein concentrate					
Human ²	38,601	38,775	39,185	1.5	1.1
Animal ²	725	913	1,111	53.2	21.7
Total ²	39,326	39,688	40,296	2.5	1.5
25.0-49.9 percent ³	14,054	13,136	12,421	-11.6	-5.4
50.0-89.9 percent ³	25,272	26,552	27,875	10.3	5.0
Whey protein isolates ⁴	9,976	10,575	10,351	3.8	-2.1
Lactose, human and animal	91,462	94,356	91,398	-0.1	-3.1
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	67,072	80,191	72,196	7.6	-10.0
Dry whey, animal	1,344	2,997	4,206	212.9	40.3
Dry whey, total	68,416	83,188	76,402	11.7	-8.2
Reduced Lactose and minerals					
Human and animal ⁶	10,435	8,399	7,382	-29.3	-12.1
Whey protein concentrate					
Human ²	73,777	72,969	61,855	-16.2	-15.2
Animal ²	764	884	885	15.8	0.1
Total ²	74,541	73,853	62,740	-15.8	-15.0
25.0-49.9 percent ³	25,535	29,354	27,265	6.8	-7.1
50.0-89.9 percent ³	49,006	44,499	35,475	-27.6	-20.3
Whey protein isolates ⁴	18,458	18,335	17,674	-4.2	-3.6
Lactose, human and animal	164,156	129,769	117,293	-28.5	-9.6
	(cents per pound)	(cents per pound)	(cents per pound)	(cents change)	(cents change)
Manufacturers' selling price ⁷					
Dry whey, animal	26.9	23.5	21.5	-5.3	-2.0

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:
October 2022 and 2023**

Product	October 2022	September 2023	October 2023	Change from	
				October 2022	September 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Production					
Bulk condensed milk					
Skim, unsweetened	115,143	108,647	113,188	-1.7	4.2
Dry milk products					
Dry buttermilk, total	10,779	8,470	12,456	15.6	47.1
Dry skim milk, animal	782	740	592	-24.3	-20.0
Dry whole milk	11,936	7,797	9,461	-20.7	21.3
Milk protein concentrate, total ¹	18,034	16,268	15,385	-14.7	-5.4
Nonfat dry milk, human	129,037	100,666	127,426	-1.2	26.6
Skim milk powder, total ²	65,285	55,650	42,485	-34.9	-23.7
Manufacturers' stocks end-of-month ³					
Dry milk products					
Dry buttermilk, total	32,146	27,370	25,659	-20.2	-6.3
Dry skim milk, animal	7,610	9,744	11,654	53.1	19.6
Dry whole milk	15,116	11,398	8,137	-46.2	-28.6
Nonfat dry milk, human	250,704	240,626	223,649	-10.8	-7.1
Manufacturers' shipments ⁴					
Dry milk products					
Nonfat dry milk, human	152,791	129,864	139,385	-8.8	7.3

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	1,194,363	0.8	11,707,883	11,737,783	0.3
November	1,156,153			12,864,036		
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	474,060	-0.3	4,688,349	4,773,916	1.8
November	466,253			5,154,602		
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	331,846	-2.5	3,296,725	3,338,979	1.3
November	323,788			3,620,513		
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	506,407	1.4	4,907,095	4,867,258	-0.8
November	488,746			5,395,841		
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	399,420	2.3	3,844,548	3,841,610	-0.1
November	384,171			4,228,719		
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	7,267	-8.4	79,024	71,991	-8.9
November	7,837			86,861		
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	160,608	-0.9	1,699,254	1,749,711	3.0
November	171,461			1,870,715		
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	127,426	-1.2	1,639,910	1,616,343	-1.4
November	160,743			1,800,653		
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	42,485	-34.9	545,010	442,281	-18.8
November	49,110			594,120		
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	75,627	0.4	768,277	790,098	2.8
November	72,041			840,318		
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	91,398	-0.1	933,800	923,841	-1.1
November	88,620			1,022,420		
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	40,296	2.5	369,506	411,053	11.2
November	39,907			409,413		
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	30,236	8.6	286,686	314,201	9.6
November	28,478			315,164		
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	28,958	21.1	250,133	278,604	11.4
November	22,035			272,168		
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	138,684	5.8	1,228,018	1,233,907	0.5
November	133,978			1,361,996		
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	57,896	-2.6	618,899	618,239	-0.1
November	54,126			673,025		
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	32,780	-8.1	390,069	369,940	-5.2
November	29,075			419,144		
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	1,725	-20.2	20,915	19,086	-8.7
November	1,671			22,586		
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	386,455	-1.3	3,915,147	4,034,898	3.1
November	337,045			4,252,192		
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	4,049	5.8	39,273	39,681	1.0
November	2,664			41,937		
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:
October 2022 and 2023**

State and region	October 2022	September 2023	October 2023	Change from	
				October 2022	September 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	205,948	204,152	210,239	2.1	3.0
Idaho	85,201	87,367	87,346	2.5	(Z)
Illinois	5,705	5,549	5,844	2.4	5.3
Iowa	32,228	33,600	32,742	1.6	-2.6
Minnesota	69,255	65,390	66,314	-4.2	1.4
New Jersey	5,587	5,245	6,324	13.2	20.6
New Mexico	83,484	77,336	85,214	2.1	10.2
New York	72,736	67,826	77,624	6.7	14.4
Ohio	19,579	20,934	20,527	4.8	-1.9
Pennsylvania	35,881	37,159	37,906	5.6	2.0
South Dakota	44,267	42,918	45,986	3.9	7.1
Vermont	12,164	11,557	12,271	0.9	6.2
Wisconsin	294,562	287,091	297,127	0.9	3.5
Other States ¹	217,941	203,534	208,899	-4.1	2.6
United States	1,184,538	1,149,658	1,194,363	0.8	3.9
Atlantic	137,892	133,157	146,011	5.9	9.7
Central	573,756	556,527	573,667	(Z)	3.1
West	472,890	459,974	474,685	0.4	3.2

(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.

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

State and region	October 2022	September 2023	October 2023	Change from	
				October 2022	September 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	45,502	47,015	42,757	-6.0	-9.1
Iowa	17,569	17,342	17,061	-2.9	-1.6
Minnesota	59,685	56,983	55,412	-7.2	-2.8
New York	10,876	11,737	12,348	13.5	5.2
Wisconsin	89,033	86,842	91,100	2.3	4.9
Other States ¹	252,746	242,582	255,382	1.0	5.3
United States	475,411	462,501	474,060	-0.3	2.5
Atlantic	27,607	27,686	29,315	6.2	5.9
Central	257,452	248,029	253,770	-1.4	2.3
West	190,352	186,786	190,975	0.3	2.2

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: October 2022 and 2023

State and region	October 2022	September 2023	October 2023	Change from	
				October 2022	September 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	22,871	20,699	19,614	-14.2	-5.2
Vermont	8,591	8,051	8,732	1.6	8.5
Wisconsin	59,769	54,066	59,600	-0.3	10.2
Other States ¹	249,002	228,468	243,900	-2.0	6.8
United States	340,233	311,284	331,846	-2.5	6.6
Atlantic	25,847	25,637	27,149	5.0	5.9
Central	181,483	162,677	169,793	-6.4	4.4
West	132,903	122,970	134,904	1.5	9.7

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: October 2022 and 2023

State and region	October 2022	September 2023	October 2023	Change from	
				October 2022	September 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	136,701	130,595	141,706	3.7	8.5
Minnesota	9,272	8,402	10,793	16.4	28.5
New Jersey	2,876	2,700	3,251	13.0	20.4
New York	30,672	28,036	31,196	1.7	11.3
Pennsylvania	22,247	20,632	22,795	2.5	10.5
Wisconsin	140,324	138,963	141,585	0.9	1.9
Other States ¹	157,141	150,414	155,081	-1.3	3.1
United States	499,233	479,742	506,407	1.4	5.6
Atlantic	59,378	54,956	60,879	2.5	10.8
Central	207,910	205,161	212,505	2.2	3.6
West	231,945	219,625	233,023	0.5	6.1

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: October 2022 and 2023

State and region	October 2022	September 2023	October 2023	Change from	
				October 2022	September 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	121,028	122,705	130,340	7.7	6.2
New Jersey	1,374	1,278	1,341	-2.4	4.9
New York	14,909	12,360	13,744	-7.8	11.2
Pennsylvania	18,213	16,418	18,900	3.8	15.1
Wisconsin	88,831	89,545	92,100	3.7	2.9
Other States ¹	146,242	137,636	142,995	-2.2	3.9
United States	390,597	379,942	399,420	2.3	5.1
Atlantic	37,072	32,391	36,585	-1.3	12.9
Central	139,055	137,234	142,467	2.5	3.8
West	214,470	210,317	220,368	2.8	4.8

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

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

State and region	October 2022	September 2023	October 2023	Change from	
				October 2022	September 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	51,229	48,471	50,979	-0.5	5.2
Pennsylvania	6,679	6,648	6,808	1.9	2.4
Other States ¹	104,206	87,618	102,821	-1.3	17.4
United States	162,114	142,737	160,608	-0.9	12.5
Atlantic	11,248	10,246	11,463	1.9	11.9
Central	64,296	53,248	62,468	-2.8	17.3
West	86,570	79,243	86,677	0.1	9.4

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: October 2022 and 2023

State and region	October 2022	September 2023	October 2023	Change from	
				October 2022	September 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	53,010	37,072	55,810	5.3	50.5
Pennsylvania	11,805	11,709	10,321	-12.6	-11.9
Wisconsin	889	1,251	1,520	71.0	21.5
Other States ¹	63,333	50,634	59,775	-5.6	18.1
United States	129,037	100,666	127,426	-1.2	26.6
Atlantic	19,959	20,604	19,906	-0.3	-3.4
Central	29,870	22,430	28,188	-5.6	25.7
West	79,208	57,632	79,332	0.2	37.7

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: October 2022 and 2023

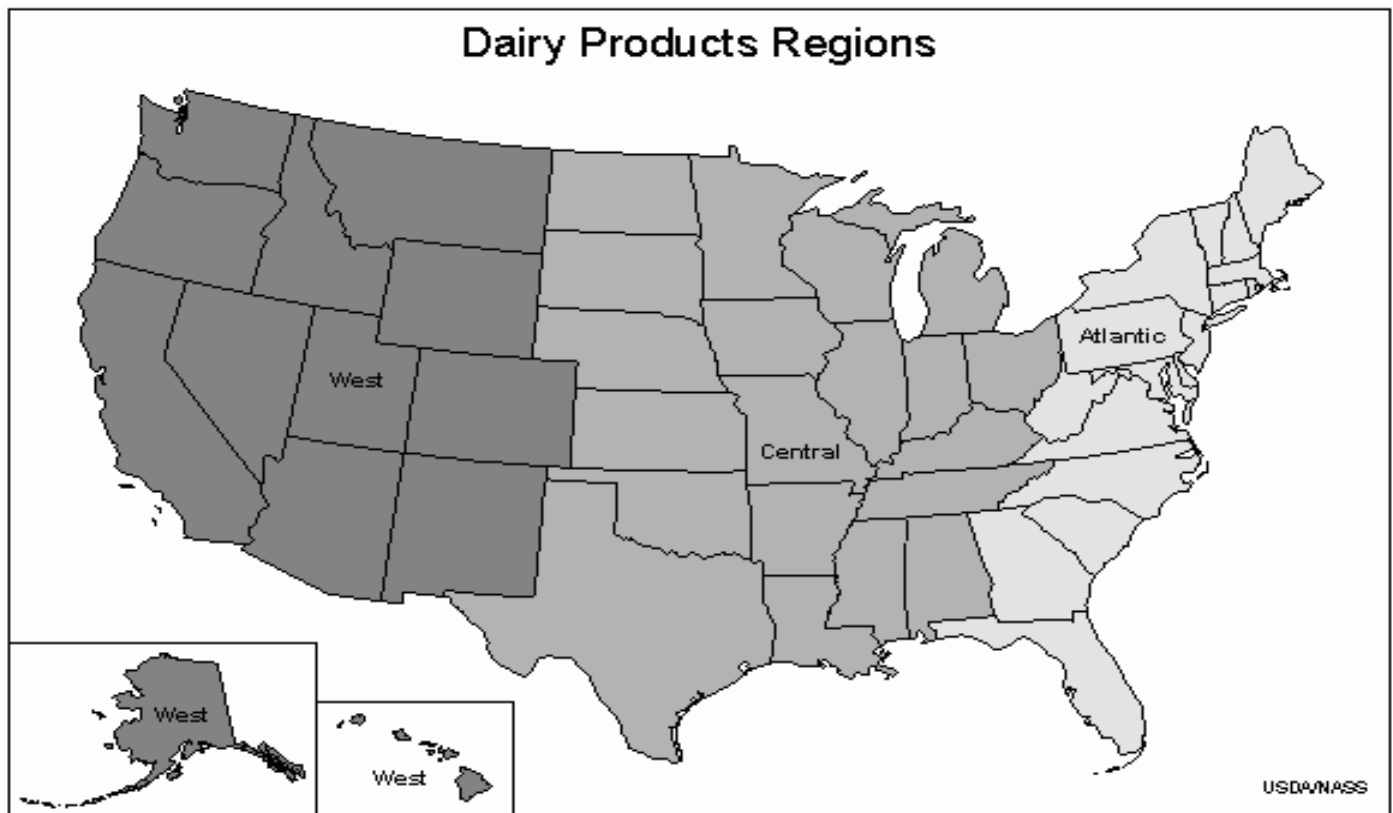
State and region	October 2022	September 2023	October 2023	Change from	
				October 2022	September 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
New York	11,206	10,171	10,566	-5.7	3.9
Wisconsin	22,248	19,932	20,915	-6.0	4.9
Other States ¹	40,632	43,618	40,706	0.2	-6.7
United States	74,086	73,721	72,187	-2.6	-2.1
Atlantic	20,116	19,069	20,247	0.7	6.2
Central	33,389	38,111	35,317	5.8	-7.3
West	20,581	16,541	16,623	-19.2	0.5

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: October 2022 and 2023

State and region	October 2022	September 2023	October 2023	Change from	
				October 2022	September 2023
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
California	6,904	5,985	6,527	-5.5	9.1
Connecticut	1,449	1,343	1,021	-29.5	-24.0
New York	2,187	2,263	2,081	-4.8	-8.0
Ohio	2,353	2,101	2,136	-9.2	1.7
Oregon	973	926	1,071	10.1	15.7
Pennsylvania	2,738	2,858	3,053	11.5	6.8
Tennessee	2,053	2,182	2,147	4.6	-1.6
Utah	1,524	1,565	1,291	-15.3	-17.5
Wisconsin	586	735	627	7.0	-14.7
Other States ¹	38,701	42,569	37,942	-2.0	-10.9
United States	59,468	62,527	57,896	-2.6	-7.4
Atlantic	14,638	13,983	12,697	-13.3	-9.2
Central	33,806	37,170	34,606	2.4	-6.9
West	11,024	11,374	10,593	-3.9	-6.9

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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