



Dairy Products

ISSN: 1949-0399

Released November 3, 2023, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

September 2023 Highlights

Total cheese output (excluding cottage cheese) was 1.15 billion pounds, 0.1 percent above September 2022 but 0.3 percent below August 2023.

Italian type cheese production totaled 480 million pounds, 3.4 percent below September 2022 and 0.9 percent below August 2023.

American type cheese production totaled 466 million pounds, 4.2 percent above September 2022 and 1.6 percent above August 2023.

Butter production was 145 million pounds, 2.9 percent above September 2022 and 3.3 percent above August 2023.

Dry milk products (comparisons in percentage with September 2022)

Nonfat dry milk, human - 101 million pounds, down 17.7 percent.

Skim milk powder - 55.7 million pounds, down 18.7 percent.

Whey products (comparisons in percentage with September 2022)

Dry whey, total - 76.2 million pounds, up 0.5 percent.

Lactose, human and animal - 95.7 million pounds, up 5.0 percent.

Whey protein concentrate, total - 41.0 million pounds, up 6.0 percent.

Frozen products (comparisons in percentage with September 2022)

Ice cream, regular (hard) - 61.9 million gallons, down 1.9 percent.

Ice cream, lowfat (total) - 34.3 million gallons, down 8.1 percent.

Sherbet (hard) - 1.64 million gallons, down 17.0 percent.

Frozen yogurt (total) - 2.95 million gallons, down 5.5 percent.

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

Product	September 2022	August 2023	September 2023	Change from	
				September 2022	August 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Butter	140,552	139,969	144,566	2.9	3.3
Cheese					
American types ¹	446,931	458,648	465,785	4.2	1.6
Cheddar	305,153	313,182	314,608	3.1	0.5
Other American types	141,778	145,466	151,177	6.6	3.9
Blue and Gorgonzola	7,217	7,847	6,033	-16.4	-23.1
Brick and Muenster	15,428	18,957	16,289	5.6	-14.1
Cream and Neufchatel	91,102	91,755	89,099	-2.2	-2.9
Feta	15,544	13,645	12,544	-19.3	-8.1
Gouda	4,007	5,774	4,933	23.1	-14.6
Hispanic	32,965	35,667	38,043	15.4	6.7
Italian types	496,490	483,985	479,542	-3.4	-0.9
Mozzarella	385,587	382,496	380,547	-1.3	-0.5
Parmesan	45,010	37,516	35,006	-22.2	-6.7
Provolone	31,195	32,542	32,027	2.7	-1.6
Ricotta	21,177	20,871	21,506	1.6	3.0
Romano	5,284	3,512	3,900	-26.2	11.0
Other Italian types	8,237	7,048	6,556	-20.4	-7.0
Swiss	26,537	27,645	26,638	0.4	-3.6
All other types	14,589	12,577	13,573	-7.0	7.9
Total cheese ²	1,150,810	1,156,500	1,152,479	0.1	-0.3
Cottage cheese, curd ³	31,809	40,134	34,296	7.8	-14.5
Cottage cheese, cream ⁴	29,634	34,401	32,353	9.2	-6.0
Cottage cheese, lowfat ⁵	25,420	32,495	31,548	24.1	-2.9
Sour cream	121,170	123,536	117,819	-2.8	-4.6
Yogurt, plain and flavored	398,067	409,566	416,283	4.6	1.6
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
Frozen products					
Ice cream, regular, hard	63,076	66,453	61,900	-1.9	-6.9
Ice cream, lowfat, hard	19,168	21,424	19,645	2.5	-8.3
Ice cream, lowfat, soft	18,176	19,257	14,670	-19.3	-23.8
Ice cream, lowfat, total ⁶	37,344	40,681	34,315	-8.1	-15.6
Ice cream, nonfat, hard	554	830	717	29.4	-13.6
Sherbet, hard	1,981	1,869	1,644	-17.0	-12.0
Frozen yogurt, total	3,115	4,217	2,945	-5.5	-30.2
Regular and lowfat, hard	928	1,053	838	-9.7	-20.4
Nonfat, hard	399	364	319	-20.1	-12.4
Other frozen dairy products	1,186	1,330	1,181	-0.4	-11.2
Water and juice ices	5,496	6,477	5,676	3.3	-12.4
Mix for frozen products					
Ice cream, regular, mix	40,478	42,334	38,031	-6.0	-10.2
Ice cream, lowfat, mix ⁷	20,228	22,807	19,124	-5.5	-16.1
Ice cream, nonfat, mix	375	472	432	15.2	-8.5
Sherbet mix	1,566	1,835	1,503	-4.0	-18.1
Yogurt mix	1,748	1,972	1,720	-1.6	-12.8

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: September 2022 and 2023

Product	September 2022	August 2023	September 2023	Change from	
				September 2022	August 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Condensed whey, solids content ¹					
Sweet-type, human	9,494	9,834	9,097	-4.2	-7.5
Dry whey products					
Dry whey, human	74,634	79,546	73,136	-2.0	-8.1
Dry whey, animal	1,158	3,280	3,069	165.0	-6.4
Dry whey, total	75,792	82,826	76,205	0.5	-8.0
Reduced lactose and minerals					
Human	2,123	216	580	-72.7	168.5
Animal	3,355	3,140	3,169	-5.5	0.9
Whey protein concentrate					
Human ²	37,815	38,904	40,062	5.9	3.0
Animal ²	839	1,028	914	8.9	-11.1
Total ²	38,654	39,932	40,976	6.0	2.6
25.0-49.9 percent ³	13,965	13,353	13,797	-1.2	3.3
50.0-89.9 percent ³	24,689	26,579	27,179	10.1	2.3
Whey protein isolates ⁴	10,810	9,343	10,645	-1.5	13.9
Lactose, human and animal	91,193	92,311	95,715	5.0	3.7
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	64,509	85,692	80,452	24.7	-6.1
Dry whey, animal	2,330	2,781	2,931	25.8	5.4
Dry whey, total	66,839	88,473	83,383	24.8	-5.8
Reduced Lactose and minerals					
Human and animal ⁶	9,119	8,832	8,411	-7.8	-4.8
Whey protein concentrate					
Human ²	71,672	78,660	79,160	10.4	0.6
Animal ²	852	1,386	888	4.2	-35.9
Total ²	72,524	80,046	80,048	10.4	(Z)
25.0-49.9 percent ³	25,310	32,634	34,056	34.6	4.4
50.0-89.9 percent ³	47,214	47,412	45,992	-2.6	-3.0
Whey protein isolates ⁴	21,283	19,856	20,971	-1.5	5.6
Lactose, human and animal	160,455	142,729	130,261	-18.8	-8.7
	(cents per pound)	(cents per pound)	(cents per pound)	(cents change)	(cents change)
Manufacturers' selling price ⁷					
Dry whey, animal	26.9	23.5	23.5	-3.4	0.1

(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, f.o.b. plant. Average monthly prices reported by firms.

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

Product	September 2022	August 2023	September 2023	Change from	
				September 2022	August 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Production					
Bulk condensed milk					
Skim, unsweetened	107,963	132,266	110,572	2.4	-16.4
Dry milk products					
Dry buttermilk, total	9,606	5,671	8,608	-10.4	51.8
Dry skim milk, animal	825	692	740	-10.3	6.9
Dry whole milk	12,003	8,005	7,688	-35.9	-4.0
Milk protein concentrate, total ¹	14,452	13,620	16,268	12.6	19.4
Nonfat dry milk, human	122,804	110,809	101,063	-17.7	-8.8
Skim milk powder, total ²	68,422	59,575	55,650	-18.7	-6.6
Manufacturers' stocks end-of-month ³					
Dry milk products					
Dry buttermilk, total	30,235	29,782	27,506	-9.0	-7.6
Dry skim milk, animal	8,916	8,419	9,522	6.8	13.1
Dry whole milk	13,376	11,469	11,398	-14.8	-0.6
Nonfat dry milk, human	273,195	269,426	243,576	-10.8	-9.6
Manufacturers' shipments ⁴					
Dry milk products					
Nonfat dry milk, human	159,279	129,361	129,864	-18.5	0.4

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	1,152,479	0.1	10,523,345	10,546,241	0.2
October	1,184,538			11,707,883		
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	465,785	4.2	4,212,938	4,303,140	2.1
October	475,411			4,688,349		
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	314,608	3.1	2,956,492	3,010,457	1.8
October	340,233			3,296,725		
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	479,542	-3.4	4,407,862	4,360,651	-1.1
October	499,233			4,907,095		
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	380,547	-1.3	3,453,951	3,442,795	-0.3
October	390,597			3,844,548		
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	6,556	-20.4	71,093	64,740	-8.9
October	7,931			79,024		
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	144,566	2.9	1,537,140	1,590,932	3.5
October	162,114			1,699,254		
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	101,063	-17.7	1,510,873	1,489,314	-1.4
October	129,037			1,639,910		
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			545,010		
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	76,205	0.5	692,929	713,884	3.0
October	75,348			768,277		
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	95,715	5.0	842,338	833,802	-1.0
October	91,462			933,800		
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	40,976	6.0	330,180	372,045	12.7
October	39,326			369,506		
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	32,353	9.2	258,854	283,988	9.7
October	27,832			286,686		
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	31,548	24.1	226,222	249,630	10.3
October	23,911			250,133		
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	117,819	-2.8	1,096,983	1,096,963	(Z)
October	131,035			1,228,018		
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	61,900	-1.9	559,431	559,716	0.1
October	59,468			618,899		
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	34,315	-8.1	354,413	338,101	-4.6
October	35,656			390,069		
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	1,644	-17.0	18,754	17,368	-7.4
October	2,161			20,915		
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	416,283	4.6	3,523,584	3,647,182	3.5
October	391,563			3,915,147		
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	2,945	-5.5	35,447	35,615	0.5
October	3,826			39,273		
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:
September 2022 and 2023**

State and region	September 2022	August 2023	September 2023	Change from	
				September 2022	August 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	193,458	208,728	202,938	4.9	-2.8
Idaho	86,570	80,652	87,386	0.9	8.3
Illinois	5,058	5,062	5,545	9.6	9.5
Iowa	31,579	33,877	31,886	1.0	-5.9
Minnesota	64,623	66,327	65,073	0.7	-1.9
New Jersey	5,325	5,539	5,245	-1.5	-5.3
New Mexico	77,408	74,243	85,322	10.2	14.9
New York	70,353	69,794	67,788	-3.6	-2.9
Ohio	19,450	21,069	20,949	7.7	-0.6
Pennsylvania	36,486	39,479	37,158	1.8	-5.9
South Dakota	44,399	40,813	42,918	-3.3	5.2
Vermont	11,640	11,563	11,557	-0.7	-0.1
Wisconsin	292,981	298,078	285,644	-2.5	-4.2
Other States ¹	211,480	201,276	203,070	-4.0	0.9
United States	1,150,810	1,156,500	1,152,479	0.1	-0.3
Atlantic	134,821	137,831	133,118	-1.3	-3.4
Central	563,220	564,992	553,201	-1.8	-2.1
West	452,769	453,677	466,160	3.0	2.8

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: September 2022 and 2023

State and region	September 2022	August 2023	September 2023	Change from	
				September 2022	August 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	40,096	46,029	47,015	17.3	2.1
Iowa	16,081	17,756	15,627	-2.8	-12.0
Minnesota	54,225	55,868	57,051	5.2	2.1
New York	11,817	12,156	11,737	-0.7	-3.4
Wisconsin	81,396	88,966	84,800	4.2	-4.7
Other States ¹	243,316	237,873	249,555	2.6	4.9
United States	446,931	458,648	465,785	4.2	1.6
Atlantic	27,649	28,036	27,686	0.1	-1.2
Central	242,160	248,960	244,493	1.0	-1.8
West	177,122	181,652	193,606	9.3	6.6

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: September 2022 and 2023

State and region	September 2022	August 2023	September 2023	Change from	
				September 2022	August 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	17,524	22,118	20,699	18.1	-6.4
Vermont	8,283	7,980	8,051	-2.8	0.9
Wisconsin	53,424	55,683	52,600	-1.5	-5.5
Other States ¹	225,922	227,401	233,258	3.2	2.6
United States	305,153	313,182	314,608	3.1	0.5
Atlantic	25,735	25,935	25,637	-0.4	-1.1
Central	161,993	167,427	160,946	-0.6	-3.9
West	117,425	119,820	128,025	9.0	6.8

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: September 2022 and 2023

State and region	September 2022	August 2023	September 2023	Change from	
				September 2022	August 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	129,583	136,021	130,647	0.8	-4.0
Minnesota	10,105	10,223	8,017	-20.7	-21.6
New Jersey	2,589	2,716	2,700	4.3	-0.6
New York	27,275	29,936	28,036	2.8	-6.3
Pennsylvania	22,562	22,575	20,631	-8.6	-8.6
Wisconsin	147,639	141,130	139,084	-5.8	-1.4
Other States ¹	156,737	141,384	150,427	-4.0	6.4
United States	496,490	483,985	479,542	-3.4	-0.9
Atlantic	56,049	59,100	54,955	-2.0	-7.0
Central	214,408	207,238	204,894	-4.4	-1.1
West	226,033	217,647	219,693	-2.8	0.9

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: September 2022 and 2023

State and region	September 2022	August 2023	September 2023	Change from	
				September 2022	August 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	115,600	126,972	122,757	6.2	-3.3
New Jersey	1,330	1,316	1,278	-3.9	-2.9
New York	12,135	14,131	12,360	1.9	-12.5
Pennsylvania	18,335	18,074	16,418	-10.5	-9.2
Wisconsin	94,492	93,829	90,100	-4.6	-4.0
Other States ¹	143,695	128,174	137,634	-4.2	7.4
United States	385,587	382,496	380,547	-1.3	-0.5
Atlantic	34,144	36,180	32,391	-5.1	-10.5
Central	141,019	139,083	137,787	-2.3	-0.9
West	210,424	207,233	210,369	(Z)	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.

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

State and region	September 2022	August 2023	September 2023	Change from	
				September 2022	August 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	47,739	49,147	48,471	1.5	-1.4
Pennsylvania	6,834	5,614	6,648	-2.7	18.4
Other States ¹	85,979	85,208	89,447	4.0	5.0
United States	140,552	139,969	144,566	2.9	3.3
Atlantic	10,861	9,988	10,246	-5.7	2.6
Central	49,434	55,074	55,077	11.4	(Z)
West	80,257	74,907	79,243	-1.3	5.8

(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.

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

State and region	September 2022	August 2023	September 2023	Change from	
				September 2022	August 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	39,355	36,464	37,072	-5.8	1.7
Pennsylvania	12,448	13,645	11,709	-5.9	-14.2
Wisconsin	1,637	1,412	1,648	0.7	16.7
Other States ¹	69,364	59,288	50,634	-27.0	-14.6
United States	122,804	110,809	101,063	-17.7	-8.8
Atlantic	22,277	25,171	20,604	-7.5	-18.1
Central	30,165	26,633	22,827	-24.3	-14.3
West	70,362	59,005	57,632	-18.1	-2.3

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: September 2022 and 2023

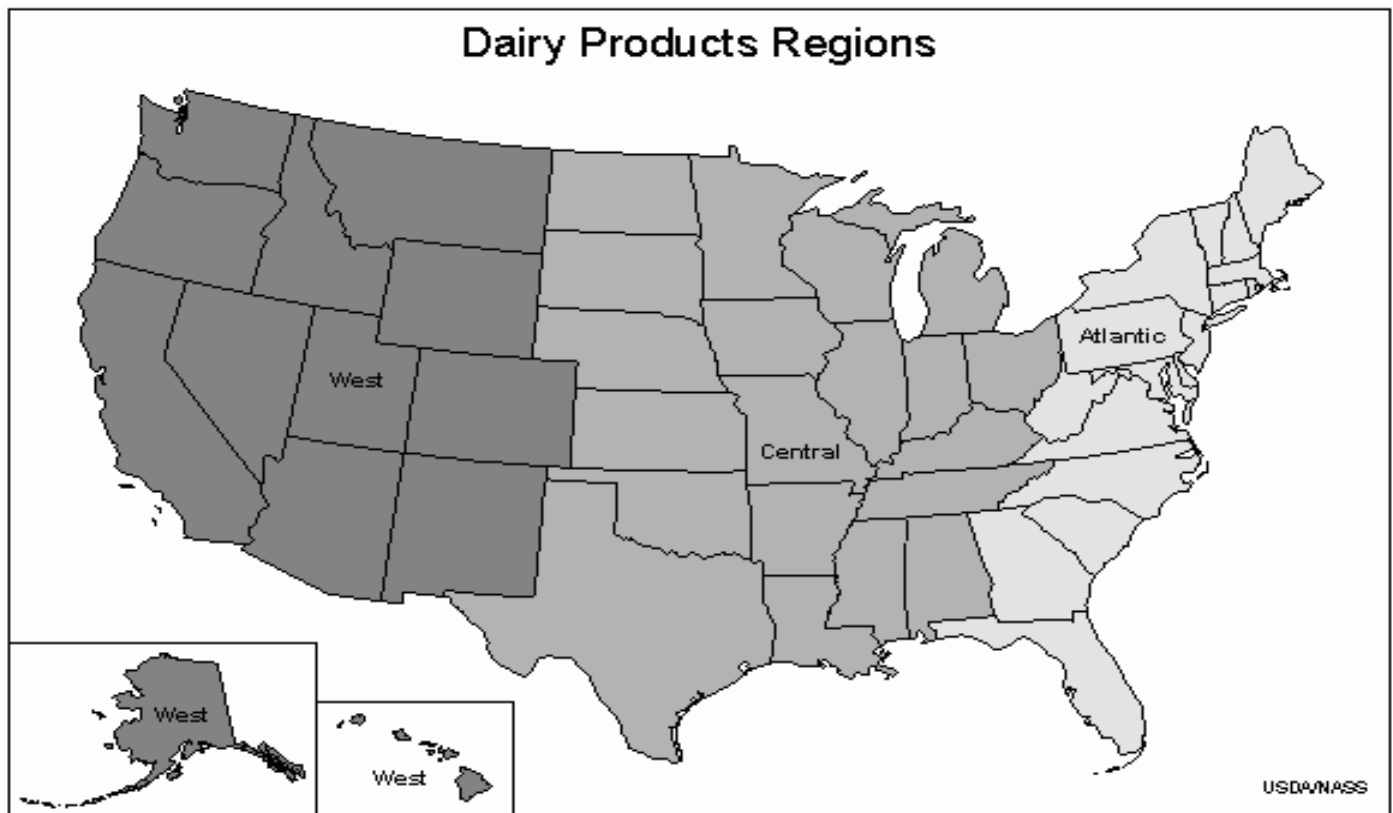
State and region	September 2022	August 2023	September 2023	Change from	
				September 2022	August 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
New York	11,496	11,404	10,171	-11.5	-10.8
Wisconsin	24,209	21,102	19,534	-19.3	-7.4
Other States ¹	38,929	47,040	43,431	11.6	-7.7
United States	74,634	79,546	73,136	-2.0	-8.1
Atlantic	21,260	21,839	19,069	-10.3	-12.7
Central	34,033	40,223	37,713	10.8	-6.2
West	19,341	17,484	16,354	-15.4	-6.5

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: September 2022 and 2023

State and region	September 2022	August 2023	September 2023	Change from	
				September 2022	August 2023
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
California	6,908	7,391	5,985	-13.4	-19.0
Connecticut	1,449	1,240	1,343	-7.3	8.3
New York	2,256	2,538	2,263	0.3	-10.8
Ohio	2,189	2,327	2,101	-4.0	-9.7
Oregon	952	1,077	926	-2.7	-14.0
Pennsylvania	3,117	3,317	2,858	-8.3	-13.8
Tennessee	2,266	1,994	2,182	-3.7	9.4
Utah	1,390	1,602	1,578	13.5	-1.5
Wisconsin	677	837	694	2.5	-17.1
Other States ¹	41,872	44,130	41,970	0.2	-4.9
United States	63,076	66,453	61,900	-1.9	-6.9
Atlantic	14,565	15,137	13,384	-8.1	-11.6
Central	37,324	38,417	37,129	-0.5	-3.4
West	11,187	12,899	11,387	1.8	-11.7

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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Sherry Bertramsen – Livestock Slaughter	(202) 690-8632
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Kim DaPra – Milk Production and Milk Cows	(512) 501-3266
Donnie Fike – Dairy Products	(202) 690-3347
Anthony Fischer – Hogs and Pigs.....	(202) 720-3106
Suzanne Richards – Sheep and Goats	(202) 720-4448

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- Both national and state specific reports are available via a free e-mail subscription. To set-up this free subscription, visit www.nass.usda.gov and click on “National” or “State” in upper right corner above “search” box to create an account and select the reports you would like to receive.
- Cornell’s Mann Library has launched a new website housing NASS’s and other agency’s archived reports. The new website, <https://usda.library.cornell.edu>. All email subscriptions containing reports will be sent from the new website, <https://usda.library.cornell.edu>. To continue receiving the reports via e-mail, you will have to go to the new website, create a new account and re-subscribe to the reports. If you need instructions to set up an account or subscribe, they are located at: <https://usda.library.cornell.edu/help>. You should whitelist notifications@usda-esmis.library.cornell.edu in your email client to avoid the emails going into spam/junk folders.

For more information on NASS surveys and reports, call the NASS Agricultural Statistics Hotline at (800) 727-9540, 7:30 a.m. to 4:00 p.m. ET, or e-mail: nass@usda.gov.

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