



Dairy Products

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May 2023 Highlights

Total cheese output (excluding cottage cheese) was 1.20 billion pounds, 0.2 percent below May 2022 but 2.8 percent above April 2023.

Italian type cheese production totaled 486 million pounds, 2.2 percent below May 2022 but 1.4 percent above April 2023.

American type cheese production totaled 509 million pounds, 4.2 percent above May 2022 and 4.7 percent above April 2023.

Butter production was 194 million pounds, 8.1 percent above May 2022 but 1.2 percent below April 2023.

Dry milk products (comparisons in percentage with May 2022)

Nonfat dry milk, human - 206 million pounds, up 7.0 percent.

Skim milk powder - 35.4 million pounds, down 30.3 percent.

Whey products (comparisons in percentage with May 2022)

Dry whey, total - 81.8 million pounds, up 3.2 percent.

Lactose, human and animal - 94.1 million pounds, down 1.0 percent.

Whey protein concentrate, total - 42.9 million pounds, up 18.0 percent.

Frozen products (comparisons in percentage with May 2022)

Ice cream, regular (hard) - 63.9 million gallons, up 2.6 percent.

Ice cream, lowfat (total) - 40.5 million gallons, down 1.7 percent.

Sherbet (hard) - 1.90 million gallons, down 6.9 percent.

Frozen yogurt (total) - 4.37 million gallons, down 8.2 percent.

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

Product	May 2022	April 2023	May 2023	Change from	
				May 2022	April 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Butter	179,812	196,909	194,449	8.1	-1.2
Cheese					
American types ¹	488,333	485,838	508,912	4.2	4.7
Cheddar	339,704	345,668	354,913	4.5	2.7
Other American types	148,629	140,170	153,999	3.6	9.9
Blue and Gorgonzola	7,797	6,510	7,270	-6.8	11.7
Brick and Muenster	15,873	14,525	14,265	-10.1	-1.8
Cream and Neufchatel	103,490	92,221	94,296	-8.9	2.3
Feta	12,046	12,883	12,316	2.2	-4.4
Gouda	5,624	5,549	4,282	-23.9	-22.8
Hispanic	31,174	32,355	31,499	1.0	-2.6
Italian types	496,930	479,150	485,898	-2.2	1.4
Mozzarella	377,519	380,896	381,458	1.0	0.1
Parmesan	37,846	36,688	41,782	10.4	13.9
Provolone	49,105	29,843	34,975	-28.8	17.2
Ricotta	20,304	18,302	16,616	-18.2	-9.2
Romano	4,087	3,934	3,810	-6.8	-3.2
Other Italian types	8,069	9,487	7,257	-10.1	-23.5
Swiss	30,632	28,254	30,485	-0.5	7.9
All other types	12,799	12,695	13,347	4.3	5.1
Total cheese ²	1,204,698	1,169,980	1,202,570	-0.2	2.8
Cottage cheese, curd ³	29,226	30,198	33,654	15.2	11.4
Cottage cheese, cream ⁴	27,362	28,368	31,578	15.4	11.3
Cottage cheese, lowfat ⁵	23,930	24,605	27,254	13.9	10.8
Sour cream	125,804	117,517	126,147	0.3	7.3
Yogurt, plain and flavored	399,140	382,713	398,792	-0.1	4.2
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
Frozen products					
Ice cream, regular, hard	62,248	61,008	63,870	2.6	4.7
Ice cream, lowfat, hard	18,591	18,013	18,616	0.1	3.3
Ice cream, lowfat, soft	22,588	19,657	21,850	-3.3	11.2
Ice cream, lowfat, total ⁶	41,179	37,670	40,466	-1.7	7.4
Ice cream, nonfat, hard	695	744	729	4.9	-2.0
Sherbet, hard	2,040	2,047	1,900	-6.9	-7.2
Frozen yogurt, total	4,764	3,496	4,374	-8.2	25.1
Regular and lowfat, hard	1,059	909	1,074	1.4	18.2
Nonfat, hard	299	332	394	31.8	18.7
Other frozen dairy products	1,034	1,030	1,156	11.8	12.2
Water and juice ices	6,503	6,369	6,325	-2.7	-0.7
Mix for frozen products					
Ice cream, regular, mix	42,091	39,486	41,315	-1.8	4.6
Ice cream, lowfat, mix ⁷	22,084	21,251	22,882	3.6	7.7
Ice cream, nonfat, mix	545	443	473	-13.2	6.8
Sherbet mix	1,636	1,598	1,539	-5.9	-3.7
Yogurt mix	2,069	1,918	2,297	11.0	19.8

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:
May 2022 and 2023**

Product	May 2022	April 2023	May 2023	Change from	
				May 2022	April 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Condensed whey, solids content ¹					
Sweet-type, human	10,217	9,625	10,080	-1.3	4.7
Dry whey products					
Dry whey, human	75,957	75,227	77,259	1.7	2.7
Dry whey, animal	3,248	4,365	4,518	39.1	3.5
Dry whey, total	79,205	79,592	81,777	3.2	2.7
Reduced lactose and minerals					
Human	2,438	900	635	-74.0	-29.4
Animal	3,208	3,168	3,242	1.1	2.3
Whey protein concentrate					
Human ²	35,573	40,615	42,007	18.1	3.4
Animal ²	756	1,048	876	15.9	-16.4
Total ²	36,329	41,663	42,883	18.0	2.9
25.0-49.9 percent ³	11,557	14,365	15,936	37.9	10.9
50.0-89.9 percent ³	24,772	27,298	26,947	8.8	-1.3
Whey protein isolates ⁴	11,930	9,258	9,743	-18.3	5.2
Lactose, human and animal	94,985	91,420	94,053	-1.0	2.9
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	71,439	74,798	75,262	5.4	0.6
Dry whey, animal	1,771	4,305	2,865	61.8	-33.4
Dry whey, total	73,210	79,103	78,127	6.7	-1.2
Reduced Lactose and minerals					
Human and animal ⁶	9,120	8,134	7,776	-14.7	-4.4
Whey protein concentrate					
Human ²	68,597	88,516	89,169	30.0	0.7
Animal ²	1,551	1,330	1,426	-8.1	7.2
Total ²	70,148	89,846	90,595	29.1	0.8
25.0-49.9 percent ³	20,198	36,203	37,647	86.4	4.0
50.0-89.9 percent ³	49,950	53,643	52,948	6.0	-1.3
Whey protein isolates ⁴	15,702	25,671	22,988	46.4	-10.5
Lactose, human and animal	171,682	166,368	167,540	-2.4	0.7
	(cents per pound)	(cents per pound)	(cents per pound)	(cents change)	(cents change)
Manufacturers' selling price ⁷					
Dry whey, animal	40.9	28.3	26.6	-14.3	-1.7

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:
May 2022 and 2023**

Product	May 2022	April 2023	May 2023	Change from	
				May 2022	April 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Production					
Bulk condensed milk					
Skim, unsweetened	120,091	120,498	128,672	7.1	6.8
Dry milk products					
Dry buttermilk, total	11,924	13,168	13,763	15.4	4.5
Dry skim milk, animal	1,028	550	771	-25.0	40.2
Dry whole milk	12,708	8,529	9,446	-25.7	10.8
Milk protein concentrate, total ¹	22,195	22,072	23,473	5.8	6.3
Nonfat dry milk, human	192,677	198,595	206,184	7.0	3.8
Skim milk powder, total ²	50,753	34,783	35,352	-30.3	1.6
Manufacturers' stocks end-of-month ³					
Dry milk products					
Dry buttermilk, total	24,746	40,265	40,169	62.3	-0.2
Dry skim milk, animal	8,436	5,896	6,246	-26.0	5.9
Dry whole milk	19,933	14,302	13,686	-31.3	-4.3
Nonfat dry milk, human	317,325	306,885	300,141	-5.4	-2.2
Manufacturers' shipments ⁴					
Dry milk products					
Nonfat dry milk, human	173,193	195,304	208,650	20.5	6.8

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	1,202,570	-0.2	5,879,334	5,910,067	0.5
June	1,165,799			7,045,133		
July	1,170,138			8,215,271		
August	1,157,264			9,372,535		
September	1,150,810			10,523,345		
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	508,912	4.2	2,368,316	2,435,464	2.8
June	466,040			2,834,356		
July	473,984			3,308,340		
August	457,667			3,766,007		
September	446,931			4,212,938		
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	354,913	4.5	1,651,365	1,719,616	4.1
June	341,624			1,992,989		
July	340,236			2,333,225		
August	318,114			2,651,339		
September	305,153			2,956,492		
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	485,898	-2.2	2,450,285	2,436,737	-0.6
June	485,592			2,935,877		
July	488,763			3,424,640		
August	486,732			3,911,372		
September	496,490			4,407,862		
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	381,458	1.0	1,905,432	1,918,717	0.7
June	386,708			2,292,140		
July	392,366			2,684,506		
August	383,858			3,068,364		
September	385,587			3,453,951		
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	7,257	-10.1	40,195	37,877	-5.8
June	8,091			48,286		
July	7,420			55,706		
August	7,150			62,856		
September	8,237			71,093		
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	194,449	8.1	942,895	984,869	4.5
June	158,979			1,101,874		
July	151,755			1,253,629		
August	142,959			1,396,588		
September	140,552			1,537,140		
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	206,184	7.0	919,747	961,708	4.6
June	168,971			1,088,718		
July	165,726			1,254,444		
August	133,625			1,388,069		
September	122,804			1,510,873		
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	35,352	-30.3	230,338	187,166	-18.7
June	54,406			284,744		
July	61,008			345,752		
August	65,551			411,303		
September	68,422			479,725		
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			457,536		
July	84,287			541,823		
August	75,314			617,137		
September	75,792			692,929		
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	94,053	-1.0	464,198	455,661	-1.8
June	98,429			562,627		
July	95,345			657,972		
August	93,173			751,145		
September	91,193			842,338		
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	42,883	18.0	183,728	205,737	12.0
June	36,215			219,943		
July	36,463			256,406		
August	35,120			291,526		
September	38,654			330,180		
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	31,578	15.4	139,691	151,287	8.3
June	29,366			169,057		
July	28,727			197,784		
August	31,436			229,220		
September	29,634			258,854		
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	27,254	13.9	124,190	128,188	3.2
June	24,359			148,549		
July	24,826			173,375		
August	27,427			200,802		
September	25,420			226,222		
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	126,147	0.3	609,995	609,243	-0.1
June	123,165			733,160		
July	115,623			848,783		
August	127,030			975,813		
September	121,170			1,096,983		
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	63,870	2.6	302,826	302,468	-0.1
June	66,973			369,799		
July	61,063			430,862		
August	65,493			496,355		
September	63,076			559,431		
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	40,466	-1.7	190,499	178,685	-6.2
June	43,257			233,756		
July	40,620			274,376		
August	42,693			317,069		
September	37,344			354,413		
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	1,900	-6.9	10,481	10,195	-2.7
June	2,065			12,546		
July	2,224			14,770		
August	2,003			16,773		
September	1,981			18,754		
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	398,792	-0.1	1,952,416	2,014,516	3.2
June	391,060			2,343,476		
July	379,818			2,723,294		
August	402,223			3,125,517		
September	398,067			3,523,584		
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			23,387		
July	5,005			28,392		
August	3,940			32,332		
September	3,115			35,447		
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:
May 2022 and 2023**

State and region	May 2022	April 2023	May 2023	Change from	
				May 2022	April 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	213,552	209,183	216,105	1.2	3.3
Idaho	76,745	86,478	77,416	0.9	-10.5
Illinois	5,970	4,908	5,932	-0.6	20.9
Iowa	33,961	31,125	33,867	-0.3	8.8
Minnesota	68,978	68,954	71,305	3.4	3.4
New Jersey	4,251	4,891	4,284	0.8	-12.4
New Mexico	84,173	79,038	93,542	11.1	18.4
New York	78,387	66,196	63,120	-19.5	-4.6
Ohio	22,493	20,510	22,086	-1.8	7.7
Pennsylvania	39,383	39,420	40,696	3.3	3.2
South Dakota	44,823	41,820	44,245	-1.3	5.8
Vermont	12,875	11,279	12,716	-1.2	12.7
Wisconsin	298,174	289,391	301,752	1.2	4.3
Other States ¹	220,933	216,787	215,504	-2.5	-0.6
United States	1,204,698	1,169,980	1,202,570	-0.2	2.8
Atlantic	146,888	133,510	132,989	-9.5	-0.4
Central	584,215	567,664	592,006	1.3	4.3
West	473,595	468,806	477,575	0.8	1.9

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: May 2022 and 2023

State and region	May 2022	April 2023	May 2023	Change from	
				May 2022	April 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	50,513	46,939	46,927	-7.1	(Z)
Iowa	18,396	17,844	18,463	0.4	3.5
Minnesota	58,757	58,704	59,709	1.6	1.7
New York	12,072	12,308	12,463	3.2	1.3
Wisconsin	89,499	91,974	94,500	5.6	2.7
Other States ¹	259,096	258,069	276,850	6.9	7.3
United States	488,333	485,838	508,912	4.2	4.7
Atlantic	29,378	28,448	29,792	1.4	4.7
Central	263,131	264,483	274,243	4.2	3.7
West	195,824	192,907	204,877	4.6	6.2

(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.

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

State and region	May 2022	April 2023	May 2023	Change from	
				May 2022	April 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	24,127	21,583	22,213	-7.9	2.9
Vermont	9,267	8,137	8,709	-6.0	7.0
Wisconsin	59,426	61,307	62,000	4.3	1.1
Other States ¹	246,884	254,641	261,991	6.1	2.9
United States	339,704	345,668	354,913	4.5	2.7
Atlantic	27,468	26,304	27,437	-0.1	4.3
Central	180,901	188,158	187,611	3.7	-0.3
West	131,335	131,206	139,865	6.5	6.6

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: May 2022 and 2023

State and region	May 2022	April 2023	May 2023	Change from	
				May 2022	April 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	138,858	139,111	145,983	5.1	4.9
Minnesota	9,917	10,090	11,253	13.5	11.5
New Jersey	1,914	2,304	1,947	1.7	-15.5
New York	32,531	26,733	27,006	-17.0	1.0
Pennsylvania	23,955	24,267	23,756	-0.8	-2.1
Wisconsin	141,026	134,288	139,936	-0.8	4.2
Other States ¹	148,729	142,357	136,017	-8.5	-4.5
United States	496,930	479,150	485,898	-2.2	1.4
Atlantic	62,419	57,100	56,797	-9.0	-0.5
Central	206,134	196,923	203,981	-1.0	3.6
West	228,377	225,127	225,120	-1.4	(Z)

(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.

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

State and region	May 2022	April 2023	May 2023	Change from	
				May 2022	April 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	129,177	129,338	134,474	4.1	4.0
New Jersey	1,152	1,217	1,099	-4.6	-9.7
New York	13,325	12,933	13,420	0.7	3.8
Pennsylvania	19,504	20,094	19,615	0.6	-2.4
Wisconsin	78,025	84,892	88,300	13.2	4.0
Other States ¹	136,336	132,422	124,550	-8.6	-5.9
United States	377,519	380,896	381,458	1.0	0.1
Atlantic	36,747	36,575	36,935	0.5	1.0
Central	123,510	130,343	132,317	7.1	1.5
West	217,262	213,978	212,206	-2.3	-0.8

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

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

State and region	May 2022	April 2023	May 2023	Change from	
				May 2022	April 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	59,301	63,363	63,713	7.4	0.6
Pennsylvania	8,341	7,146	8,252	-1.1	15.5
Other States ¹	112,170	126,400	122,484	9.2	-3.1
United States	179,812	196,909	194,449	8.1	-1.2
Atlantic	15,060	15,842	16,734	11.1	5.6
Central	68,150	78,659	74,745	9.7	-5.0
West	96,602	102,408	102,970	6.6	0.5

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: May 2022 and 2023

State and region	May 2022	April 2023	May 2023	Change from	
				May 2022	April 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	85,300	91,451	93,076	9.1	1.8
Pennsylvania	16,706	16,687	18,139	8.6	8.7
Wisconsin	1,282	1,257	1,300	1.4	3.4
Other States ¹	89,389	89,200	93,669	4.8	5.0
United States	192,677	198,595	206,184	7.0	3.8
Atlantic	32,743	30,505	35,310	7.8	15.8
Central	42,105	39,063	39,879	-5.3	2.1
West	117,829	129,027	130,995	11.2	1.5

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: May 2022 and 2023

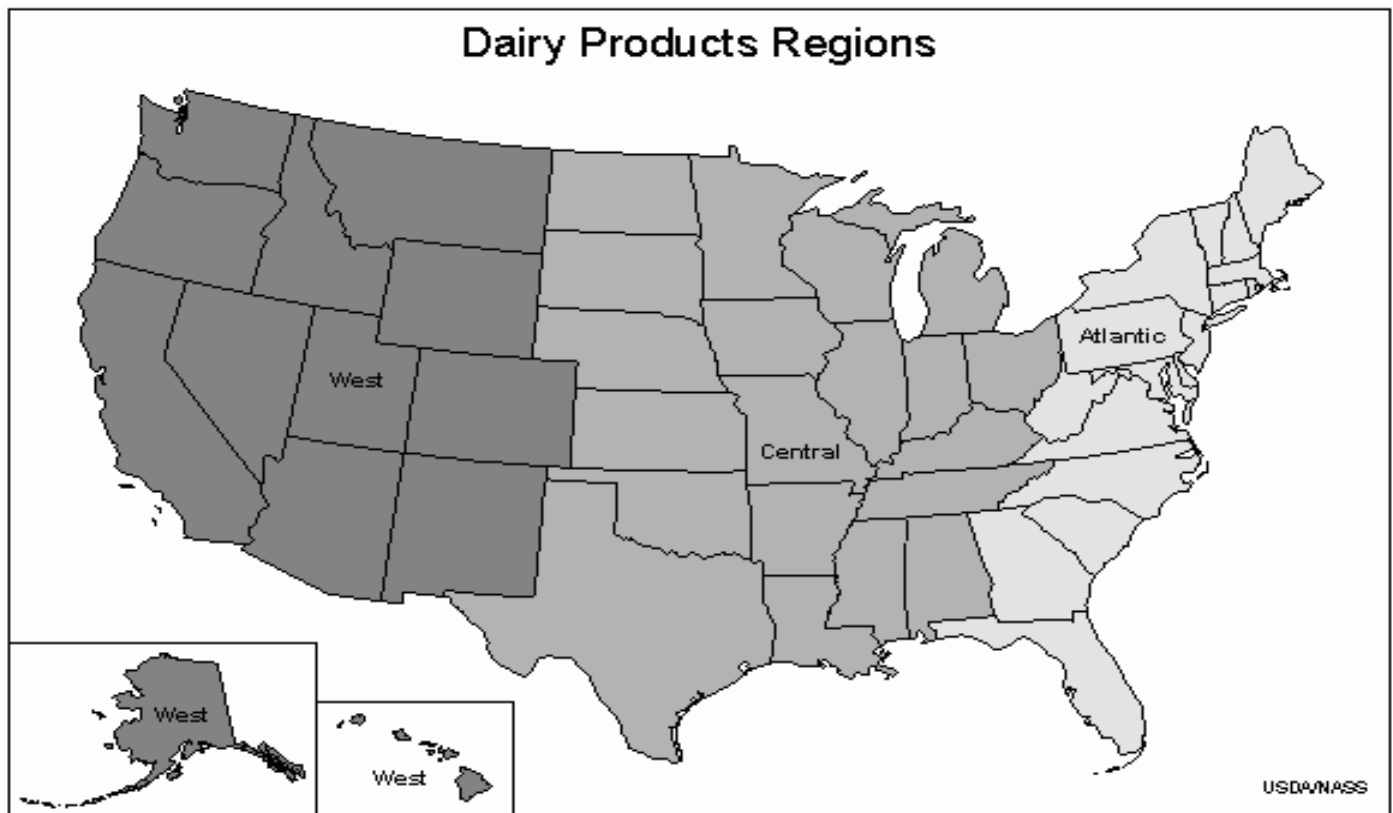
State and region	May 2022	April 2023	May 2023	Change from	
				May 2022	April 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
New York	11,416	10,818	11,555	1.2	6.8
Wisconsin	22,128	18,894	19,468	-12.0	3.0
Other States ¹	42,413	45,515	46,236	9.0	1.6
United States	75,957	75,227	77,259	1.7	2.7
Atlantic	21,723	21,779	22,014	1.3	1.1
Central	34,336	37,382	38,570	12.3	3.2
West	19,898	16,066	16,675	-16.2	3.8

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: May 2022 and 2023

State and region	May 2022	April 2023	May 2023	Change from	
				May 2022	April 2023
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
California	7,342	5,942	7,572	3.1	27.4
Connecticut	1,392	1,472	1,476	6.0	0.3
New York	2,281	2,262	2,490	9.2	10.1
Ohio	1,938	2,179	2,254	16.3	3.4
Oregon	1,001	947	980	-2.1	3.5
Pennsylvania	2,817	2,485	2,748	-2.4	10.6
Tennessee	2,076	1,886	1,919	-7.6	1.7
Utah	1,647	1,723	1,664	1.0	-3.4
Wisconsin	725	716	804	10.9	12.3
Other States ¹	41,029	41,396	41,963	2.3	1.4
United States	62,248	61,008	63,870	2.6	4.7
Atlantic	14,196	13,821	14,263	0.5	3.2
Central	36,252	36,248	37,310	2.9	2.9
West	11,800	10,939	12,297	4.2	12.4

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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Mike Miller – Milk Production and Milk Cows	(202) 720-3278
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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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