



Dairy Products

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March 2023 Highlights

Total cheese output (excluding cottage cheese) was 1.23 billion pounds, 0.2 percent below March 2022 but 11.7 percent above February 2023.

Italian type cheese production totaled 512 million pounds, 1.5 percent below March 2022 but 11.5 percent above February 2023.

American type cheese production totaled 499 million pounds, 3.2 percent above March 2022 and 12.5 percent above February 2023.

Butter production was 205 million pounds, 1.4 percent above March 2022 and 9.5 percent above February 2023.

Dry milk products (comparisons in percentage with March 2022)

Nonfat dry milk, human - 200 million pounds, up 4.4 percent.

Skim milk powder - 36.0 million pounds, down 16.1 percent.

Whey products (comparisons in percentage with March 2022)

Dry whey, total - 78.0 million pounds, up 0.3 percent.

Lactose, human and animal - 95.7 million pounds, up 2.3 percent.

Whey protein concentrate, total - 41.4 million pounds, up 12.7 percent.

Frozen products (comparisons in percentage with March 2022)

Ice cream, regular (hard) - 66.4 million gallons, up 0.2 percent.

Ice cream, lowfat (total) - 37.9 million gallons, down 11.3 percent.

Sherbet (hard) - 2.09 million gallons, down 20.2 percent.

Frozen yogurt (total) - 3.20 million gallons, down 21.2 percent.

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

Product	March 2022	February 2023	March 2023	Change from	
				March 2022	February 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Butter	202,211	187,200	204,984	1.4	9.5
Cheese					
American types ¹	482,811	443,179	498,502	3.2	12.5
Cheddar	333,498	317,059	345,596	3.6	9.0
Other American types	149,313	126,120	152,906	2.4	21.2
Blue and Gorgonzola	7,575	6,838	8,134	7.4	19.0
Brick and Muenster	16,507	13,804	15,969	-3.3	15.7
Cream and Neufchatel	104,684	93,812	100,240	-4.2	6.9
Feta	12,109	10,059	12,992	7.3	29.2
Gouda	6,990	5,486	5,680	-18.7	3.5
Hispanic	32,745	31,439	36,002	9.9	14.5
Italian types	519,279	458,867	511,684	-1.5	11.5
Mozzarella	408,184	361,531	402,530	-1.4	11.3
Parmesan	43,694	40,130	43,556	-0.3	8.5
Provolone	30,826	27,805	30,760	-0.2	10.6
Ricotta	23,109	19,210	22,749	-1.6	18.4
Romano	4,630	3,611	4,704	1.6	30.3
Other Italian types	8,836	6,580	7,385	-16.4	12.2
Swiss	31,558	24,660	26,841	-14.9	8.8
All other types	16,916	12,118	12,833	-24.1	5.9
Total cheese ²	1,231,174	1,100,262	1,228,877	-0.2	11.7
Cottage cheese, curd ³	31,853	30,400	32,826	3.1	8.0
Cottage cheese, cream ⁴	29,527	29,357	32,077	8.6	9.3
Cottage cheese, lowfat ⁵	26,571	24,320	25,913	-2.5	6.6
Sour cream	126,440	113,600	127,959	1.2	12.6
Yogurt, plain and flavored	429,558	400,599	444,927	3.6	11.1
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
Frozen products					
Ice cream, regular, hard	66,216	58,382	66,376	0.2	13.7
Ice cream, lowfat, hard	21,969	16,871	19,765	-10.0	17.2
Ice cream, lowfat, soft	20,757	15,026	18,130	-12.7	20.7
Ice cream, lowfat, total ⁶	42,726	31,897	37,895	-11.3	18.8
Ice cream, nonfat, hard	683	556	573	-16.1	3.1
Sherbet, hard	2,614	2,308	2,087	-20.2	-9.6
Frozen yogurt, total	4,066	4,340	3,204	-21.2	-26.2
Regular and lowfat, hard	1,521	1,095	1,266	-16.8	15.6
Nonfat, hard	305	388	175	-42.6	-54.9
Other frozen dairy products	1,093	1,048	1,038	-5.0	-1.0
Water and juice ices	6,733	4,985	7,044	4.6	41.3
Mix for frozen products					
Ice cream, regular, mix	43,163	35,409	43,634	1.1	23.2
Ice cream, lowfat, mix ⁷	22,766	17,877	21,259	-6.6	18.9
Ice cream, nonfat, mix	608	399	478	-21.4	19.8
Sherbet mix	1,999	1,587	1,762	-11.9	11.0
Yogurt mix	2,156	2,032	2,189	1.5	7.7

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:
March 2022 and 2023**

Product	March 2022	February 2023	March 2023	Change from	
				March 2022	February 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Condensed whey, solids content ¹					
Sweet-type, human	11,655	10,063	10,082	-13.5	0.2
Dry whey products					
Dry whey, human	76,076	62,217	73,404	-3.5	18.0
Dry whey, animal	1,688	4,607	4,570	170.7	-0.8
Dry whey, total	77,764	66,824	77,974	0.3	16.7
Reduced lactose and minerals					
Human	2,835	812	835	-70.5	2.8
Animal	3,003	2,823	3,063	2.0	8.5
Whey protein concentrate					
Human ²	36,138	36,188	40,556	12.2	12.1
Animal ²	626	985	891	42.3	-9.5
Total ²	36,764	37,173	41,447	12.7	11.5
25.0-49.9 percent ³	11,409	11,586	13,223	15.9	14.1
50.0-89.9 percent ³	25,355	25,587	28,224	11.3	10.3
Whey protein isolates ⁴	11,180	8,491	9,760	-12.7	14.9
Lactose, human and animal	93,521	82,682	95,665	2.3	15.7
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	67,973	65,494	64,365	-5.3	-1.7
Dry whey, animal	1,015	3,464	3,148	210.1	-9.1
Dry whey, total	68,988	68,958	67,513	-2.1	-2.1
Reduced Lactose and minerals					
Human and animal ⁶	7,813	10,791	8,714	11.5	-19.2
Whey protein concentrate					
Human ²	65,896	85,623	88,030	33.6	2.8
Animal ²	1,387	903	803	-42.1	-11.1
Total ²	67,283	86,526	88,833	32.0	2.7
25.0-49.9 percent ³	20,935	31,516	33,338	59.2	5.8
50.0-89.9 percent ³	46,348	55,010	55,495	19.7	0.9
Whey protein isolates ⁴	14,977	23,548	24,105	60.9	2.4
Lactose, human and animal	175,082	165,653	167,347	-4.4	1.0
	(cents per pound)	(cents per pound)	(cents per pound)	(cents change)	(cents change)
Manufacturers' selling price ⁷					
Dry whey, animal	42.5	23.8	23.6	-18.9	-0.1

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:
March 2022 and 2023**

Product	March 2022	February 2023	March 2023	Change from	
				March 2022	February 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Production					
Bulk condensed milk					
Skim, unsweetened	114,013	110,867	125,710	10.3	13.4
Dry milk products					
Dry buttermilk, total	11,553	13,113	14,021	21.4	6.9
Dry skim milk, animal	544	664	924	69.9	39.2
Dry whole milk	11,738	8,441	9,882	-15.8	17.1
Milk protein concentrate, total ¹	20,710	19,895	20,836	0.6	4.7
Nonfat dry milk, human	191,815	182,528	200,160	4.4	9.7
Skim milk powder, total ²	42,902	37,199	35,981	-16.1	-3.3
Manufacturers' stocks end-of-month ³					
Dry milk products					
Dry buttermilk, total	23,683	39,309	38,510	62.6	-2.0
Dry skim milk, animal	7,632	10,049	5,612	-26.5	-44.2
Dry whole milk	24,507	16,832	17,960	-26.7	6.7
Nonfat dry milk, human	287,919	315,820	319,101	10.8	1.0
Manufacturers' shipments ⁴					
Dry milk products					
Nonfat dry milk, human	187,194	146,621	189,686	1.3	29.4

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	1,228,877	-0.2	3,501,199	3,534,476	1.0
April	1,173,437			4,674,636		
May	1,204,698			5,879,334		
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	498,502	3.2	1,402,850	1,440,327	2.7
April	477,133			1,879,983		
May	488,333			2,368,316		
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	345,596	3.6	984,488	1,016,576	3.3
April	327,173			1,311,661		
May	339,704			1,651,365		
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	511,684	-1.5	1,462,250	1,470,455	0.6
April	491,105			1,953,355		
May	496,930			2,450,285		
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	402,530	-1.4	1,141,336	1,157,172	1.4
April	386,577			1,527,913		
May	377,519			1,905,432		
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	7,385	-16.4	24,059	21,120	-12.2
April	8,067			32,126		
May	8,069			40,195		
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	204,984	1.4	581,780	593,531	2.0
April	181,303			763,083		
May	179,812			942,895		
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	200,160	4.4	531,249	557,641	5.0
April	195,821			727,070		
May	192,677			919,747		
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	35,981	-16.1	134,972	117,760	-12.8
April	44,613			179,585		
May	50,753			230,338		
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	77,974	0.3	218,823	221,511	1.2
April	79,446			298,269		
May	79,205			377,474		
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	95,665	2.3	273,051	267,306	-2.1
April	96,162			369,213		
May	94,985			464,198		
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	41,447	12.7	110,485	120,137	8.7
April	36,914			147,399		
May	36,329			183,728		
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	32,077	8.6	85,700	90,328	5.4
April	26,629			112,329		
May	27,362			139,691		
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	25,913	-2.5	75,439	76,343	1.2
April	24,821			100,260		
May	23,930			124,190		
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	127,959	1.2	367,491	367,633	
April	116,700			484,191		
May	125,804			609,995		
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	66,376	0.2	175,151	177,721	1.5
April	65,427			240,578		
May	62,248			302,826		
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	37,895	-11.3	108,897	98,810	-9.3
April	40,423			149,320		
May	41,179			190,499		
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	2,087	-20.2	6,450	6,366	-1.3
April	1,991			8,441		
May	2,040			10,481		
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	444,927	3.6	1,179,331	1,237,163	4.9
April	373,945			1,553,276		
May	399,140			1,952,416		
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	3,204	-21.2	10,542	11,011	4.4
April	3,509			14,051		
May	4,764			18,815		
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		

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:
March 2022 and 2023**

State and region	March 2022	February 2023	March 2023	Change from	
				March 2022	February 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	214,341	201,881	217,966	1.7	8.0
Idaho	89,304	72,363	91,209	2.1	26.0
Illinois	5,363	4,865	5,215	-2.8	7.2
Iowa	31,502	31,219	33,234	5.5	6.5
Minnesota	69,475	65,560	71,654	3.1	9.3
New Jersey	5,951	4,390	5,653	-5.0	28.8
New Mexico	83,302	74,094	83,066	-0.3	12.1
New York	79,793	66,098	75,716	-5.1	14.6
Ohio	23,436	19,828	22,011	-6.1	11.0
Pennsylvania	39,774	38,358	42,075	5.8	9.7
South Dakota	48,032	42,132	46,177	-3.9	9.6
Vermont	12,728	10,819	11,030	-13.3	2.0
Wisconsin	311,348	272,374	302,135	-3.0	10.9
Other States ¹	216,825	196,281	221,736	2.3	13.0
United States	1,231,174	1,100,262	1,228,877	-0.2	11.7
Atlantic	150,267	130,582	146,540	-2.5	12.2
Central	598,518	537,411	597,825	-0.1	11.2
West	482,389	432,269	484,512	0.4	12.1

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: March 2022 and 2023

State and region	March 2022	February 2023	March 2023	Change from	
				March 2022	February 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	49,098	43,898	48,933	-0.3	11.5
Iowa	16,980	17,321	17,215	1.4	-0.6
Minnesota	56,948	54,647	60,136	5.6	10.0
New York	11,651	10,965	12,572	7.9	14.7
Wisconsin	92,186	85,714	96,600	4.8	12.7
Other States ¹	255,948	230,634	263,046	2.8	14.1
United States	482,811	443,179	498,502	3.2	12.5
Atlantic	27,957	25,718	27,921	-0.1	8.6
Central	262,424	244,473	275,797	5.1	12.8
West	192,430	172,988	194,784	1.2	12.6

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: March 2022 and 2023

State and region	March 2022	February 2023	March 2023	Change from	
				March 2022	February 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	23,073	22,413	21,624	-6.3	-3.5
Vermont	8,782	7,592	7,976	-9.2	5.1
Wisconsin	60,979	57,455	63,700	4.5	10.9
Other States ¹	240,664	229,599	252,296	4.8	9.9
United States	333,498	317,059	345,596	3.6	9.0
Atlantic	25,890	24,294	26,498	2.3	9.1
Central	178,650	173,476	188,351	5.4	8.6
West	128,958	119,289	130,747	1.4	9.6

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: March 2022 and 2023

State and region	March 2022	February 2023	March 2023	Change from	
				March 2022	February 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	139,740	134,858	142,003	1.6	5.3
Minnesota	12,160	10,718	11,202	-7.9	4.5
New Jersey	3,201	2,079	2,903	-9.3	39.6
New York	30,903	25,729	31,233	1.1	21.4
Pennsylvania	24,118	22,045	24,273	0.6	10.1
Wisconsin	149,693	127,229	138,527	-7.5	8.9
Other States ¹	159,464	136,209	161,543	1.3	18.6
United States	519,279	458,867	511,684	-1.5	11.5
Atlantic	63,000	53,800	63,283	0.4	17.6
Central	219,275	192,176	210,399	-4.0	9.5
West	237,004	212,891	238,002	0.4	11.8

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: March 2022 and 2023

State and region	March 2022	February 2023	March 2023	Change from	
				March 2022	February 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	130,099	123,254	132,455	1.8	7.5
New Jersey	1,405	1,040	1,429	1.7	37.4
New York	15,542	11,543	14,461	-7.0	25.3
Pennsylvania	19,624	17,886	19,885	1.3	11.2
Wisconsin	97,227	83,115	88,200	-9.3	6.1
Other States ¹	144,287	124,693	146,100	1.3	17.2
United States	408,184	361,531	402,530	-1.4	11.3
Atlantic	39,275	33,139	38,513	-1.9	16.2
Central	143,365	128,170	137,315	-4.2	7.1
West	225,544	200,222	226,702	0.5	13.2

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

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

State and region	March 2022	February 2023	March 2023	Change from	
				March 2022	February 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	69,702	58,111	65,498	-6.0	12.7
Pennsylvania	8,029	7,500	7,626	-5.0	1.7
Other States ¹	124,480	121,589	131,860	5.9	8.4
United States	202,211	187,200	204,984	1.4	9.5
Atlantic	17,646	18,049	18,226	3.3	1.0
Central	75,474	73,073	80,335	6.4	9.9
West	109,091	96,078	106,423	-2.4	10.8

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: March 2022 and 2023

State and region	March 2022	February 2023	March 2023	Change from	
				March 2022	February 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	92,289	79,007	92,345	0.1	16.9
Pennsylvania	15,900	15,181	14,993	-5.7	-1.2
Wisconsin	566	1,148	909	60.6	-20.8
Other States ¹	83,060	87,192	91,913	10.7	5.4
United States	191,815	182,528	200,160	4.4	9.7
Atlantic	32,402	28,339	29,484	-9.0	4.0
Central	34,159	35,701	40,664	19.0	13.9
West	125,254	118,488	130,012	3.8	9.7

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: March 2022 and 2023

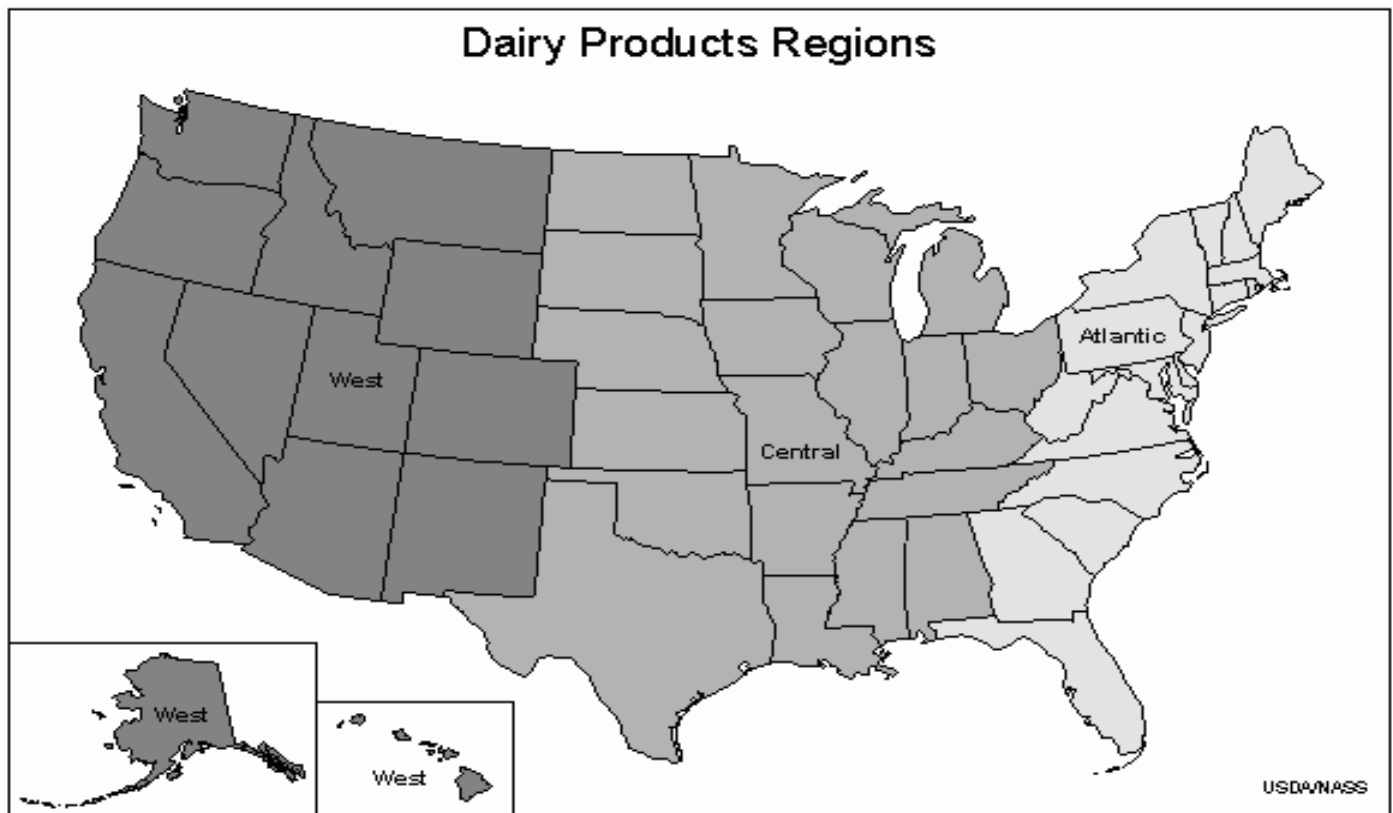
State and region	March 2022	February 2023	March 2023	Change from	
				March 2022	February 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
New York	12,064	8,661	11,108	-7.9	28.3
Wisconsin	23,117	18,395	19,239	-16.8	4.6
Other States ¹	40,895	35,161	43,057	5.3	22.5
United States	76,076	62,217	73,404	-3.5	18.0
Atlantic	22,831	17,786	21,611	-5.3	21.5
Central	36,597	28,638	34,563	-5.6	20.7
West	16,648	15,793	17,230	3.5	9.1

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: March 2022 and 2023

State and region	March 2022	February 2023	March 2023	Change from	
				March 2022	February 2023
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
California	6,847	6,257	6,725	-1.8	7.5
Connecticut	689	1,274	1,361	97.5	6.8
New York	2,086	2,007	2,345	12.4	16.8
Ohio	2,309	1,904	2,418	4.7	27.0
Oregon	1,081	961	1,083	0.2	12.7
Pennsylvania	2,799	1,792	1,419	-49.3	-20.8
Tennessee	2,113	1,657	2,104	-0.4	27.0
Utah	1,502	1,383	1,788	19.0	29.3
Wisconsin	887	731	945	6.5	29.3
Other States ¹	45,903	40,416	46,188	0.6	14.3
United States	66,216	58,382	66,376	0.2	13.7
Atlantic	13,909	11,150	13,076	-6.0	17.3
Central	40,763	36,887	41,763	2.5	13.2
West	11,544	10,345	11,537	-0.1	11.5

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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- 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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