



Dairy Products

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December 2022 Highlights

Total cheese output (excluding cottage cheese) was 1.20 billion pounds, 2.2 percent above December 2021 and 4.2 percent above November 2022.

Italian type cheese production totaled 514 million pounds, 3.0 percent above December 2021 and 5.1 percent above November 2022.

American type cheese production totaled 482 million pounds, 2.6 percent above December 2021 and 4.1 percent above November 2022.

Butter production was 187 million pounds, 3.9 percent above December 2021 and 9.4 percent above November 2022.

Dry milk products (comparisons in percentage with December 2021)

Nonfat dry milk, human - 179 million pounds, up 6.7 percent.

Skim milk powder - 48.9 million pounds, up 0.7 percent.

Whey products (comparisons in percentage with December 2021)

Dry whey, total - 76.0 million pounds, down 0.1 percent.

Lactose, human and animal - 97.0 million pounds, down 6.6 percent.

Whey protein concentrate, total - 43.3 million pounds, down 7.8 percent.

Frozen products (comparisons in percentage with December 2021)

Ice cream, regular (hard) - 52.2 million gallons, down 0.2 percent.

Ice cream, lowfat (total) - 25.0 million gallons, down 13.0 percent.

Sherbet (hard) - 1.87 million gallons, up 2.0 percent.

Frozen yogurt (total) - 3.73 million gallons, down 1.6 percent.

Contents

Dairy Products Production by Product – United States: December 2021 and 2022	3
Whey and Modified Whey Products Production, Stocks, and Prices – United States: December 2021 and 2022	4
Condensed and Dry Milk Products Production, Stocks, and Shipments – United States: December 2021 and 2022.....	5
Dairy Products Production by Product and Month – United States: 2021 and 2022	6
Total Cheese Production Excluding Cottage Cheese – States, United States, and Regions: December 2021 and 2022.....	13
American Cheese Production – States, United States, and Regions: December 2021 and 2022	14
Cheddar Cheese Production – States, United States, and Regions: December 2021 and 2022	14
Total Italian Cheese Production – States, United States, and Regions: December 2021 and 2022	15
Mozzarella Cheese Production – States, United States, and Regions: December 2021 and 2022	15
Butter Production – States, United States, and Regions: December 2021 and 2022	16
Nonfat Dry Milk (Human) Production – States, United States, and Regions: December 2021 and 2022	16
Dry Whey (Human) Production – States, United States, and Regions: December 2021 and 2022	17
Ice Cream, Regular (Hard) Production – States, United States, and Regions: December 2021 and 2022.....	17
Dairy Products Regions.....	18
Statistical Methodology.....	19
Information Contacts.....	20

Dairy Products Production by Product – United States: December 2021 and 2022

Product	December 2021	November 2022	December 2022	Change from	
				December 2021	November 2022
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Butter	179,962	170,955	187,012	3.9	9.4
Cheese					
American types ¹	469,770	462,954	481,925	2.6	4.1
Cheddar	333,665	320,259	338,491	1.4	5.7
Other American types	136,105	142,695	143,434	5.4	0.5
Blue and Gorgonzola	7,556	7,701	6,584	-12.9	-14.5
Brick and Muenster	16,260	15,819	15,795	-2.9	-0.2
Cream and Neufchatel	92,979	85,845	91,496	-1.6	6.6
Feta	12,554	13,043	12,297	-2.0	-5.7
Gouda	4,226	5,195	5,041	19.3	-3.0
Hispanic	28,693	32,628	31,636	10.3	-3.0
Italian types	498,981	488,712	513,750	3.0	5.1
Mozzarella	388,985	384,929	404,941	4.1	5.2
Parmesan	44,605	40,295	41,913	-6.0	4.0
Provolone	27,563	30,488	30,193	9.5	-1.0
Ricotta	22,492	20,290	23,210	3.2	14.4
Romano	6,457	4,807	4,762	-26.3	-0.9
Other Italian types	8,879	7,903	8,731	-1.7	10.5
Swiss	31,460	29,438	30,859	-1.9	4.8
All other types	13,984	12,326	12,921	-7.6	4.8
Total cheese ²	1,176,463	1,153,661	1,202,304	2.2	4.2
Cottage cheese, curd ³	29,212	28,311	28,065	-3.9	-0.9
Cottage cheese, cream ⁴	27,472	28,426	26,748	-2.6	-5.9
Cottage cheese, lowfat ⁵	23,028	22,066	21,857	-5.1	-0.9
Sour cream	136,439	135,801	133,423	-2.2	-1.8
Yogurt, plain and flavored	370,532	346,852	361,019	-2.6	4.1
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
Frozen products					
Ice cream, regular, hard	52,283	54,080	52,159	-0.2	-3.6
Ice cream, lowfat, hard	14,280	14,553	13,223	-7.4	-9.1
Ice cream, lowfat, soft	14,447	13,742	11,779	-18.5	-14.3
Ice cream, lowfat, total ⁶	28,727	28,295	25,002	-13.0	-11.6
Ice cream, nonfat, hard	586	497	532	-9.2	7.0
Sherbet, hard	1,833	1,805	1,870	2.0	3.6
Frozen yogurt, total	3,789	2,768	3,728	-1.6	34.7
Regular and lowfat, hard	1,078	893	1,089	1.0	21.9
Nonfat, hard	204	159	122	-40.2	-23.3
Other frozen dairy products	913	749	658	-27.9	-12.1
Water and juice ices	4,434	4,870	4,263	-3.9	-12.5
Mix for frozen products					
Ice cream, regular, mix	32,265	33,989	32,762	1.5	-3.6
Ice cream, lowfat, mix ⁷	15,533	15,888	14,013	-9.8	-11.8
Ice cream, nonfat, mix	409	433	369	-9.8	-14.8
Sherbet mix	1,405	1,372	1,495	6.4	9.0
Yogurt mix	1,734	1,603	1,932	11.4	20.5

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:
December 2021 and 2022**

Product	December 2021	November 2022	December 2022	Change from	
				December 2021	November 2022
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Condensed whey, solids content ¹					
Sweet-type, human	9,915	7,239	7,384	-25.5	2.0
Dry whey products					
Dry whey, human	74,282	70,088	73,474	-1.1	4.8
Dry whey, animal	1,762	1,814	2,505	42.2	38.1
Dry whey, total	76,044	71,902	75,979	-0.1	5.7
Reduced lactose and minerals					
Human	1,908	3,187	2,956	54.9	-7.2
Animal	3,468	3,031	3,293	-5.0	8.6
Whey protein concentrate					
Human ²	45,229	38,937	42,218	-6.7	8.4
Animal ²	1,706	1,135	1,075	-37.0	-5.3
Total ²	46,935	40,072	43,293	-7.8	8.0
25.0-49.9 percent ³	16,464	14,768	15,796	-4.1	7.0
50.0-89.9 percent ³	30,471	25,304	27,497	-9.8	8.7
Whey protein isolates ⁴	11,888	8,985	9,610	-19.2	7.0
Lactose, human and animal	103,807	88,652	96,954	-6.6	9.4
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	56,382	71,678	77,333	37.2	7.9
Dry whey, animal	676	1,290	1,239	83.3	-4.0
Dry whey, total	57,058	72,968	78,572	37.7	7.7
Reduced Lactose and minerals					
Human and animal ⁶	6,901	11,590	11,208	62.4	-3.3
Whey protein concentrate					
Human ²	68,737	74,798	79,327	15.4	6.1
Animal ²	1,653	1,038	1,176	-28.9	13.3
Total ²	70,390	75,836	80,503	14.4	6.2
25.0-49.9 percent ³	24,910	26,381	28,180	13.1	6.8
50.0-89.9 percent ³	45,480	49,455	52,323	15.0	5.8
Whey protein isolates ⁴	13,777	21,857	21,906	59.0	0.2
Lactose, human and animal	162,505	172,370	172,857	6.4	0.3
	(cents per pound)	(cents per pound)	(cents per pound)	(cents change)	(cents change)
Manufacturers' selling price ⁷					
Dry whey, animal	25.1	24.0	16.0	-9.1	-8.0

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

² Whey protein concentrate, 25.0 to 89.9 percent.

³ Whey protein concentrate, human and animal.

⁴ Whey protein isolate, 90.0 percent or greater.

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

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

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

**Condensed and Dry Milk Products Production, Stocks, and Shipments – United States:
December 2021 and 2022**

Product	December 2021	November 2022	December 2022	Change from	
				December 2021	November 2022
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Production					
Bulk condensed milk					
Skim, unsweetened	97,992	100,118	101,461	3.5	1.3
Dry milk products					
Dry buttermilk, total	12,615	12,548	14,079	11.6	12.2
Dry skim milk, animal	644	614	578	-10.2	-5.9
Dry whole milk	16,474	10,580	10,705	-35.0	1.2
Milk protein concentrate, total ¹	17,552	14,662	17,688	0.8	20.6
Nonfat dry milk, human	167,804	158,223	179,040	6.7	13.2
Skim milk powder, total ²	48,567	40,362	48,893	0.7	21.1
Manufacturers' stocks end-of-month ³					
Dry milk products					
Dry buttermilk, total	20,695	34,623	34,946	68.9	0.9
Dry skim milk, animal	6,027	7,203	8,081	34.1	12.2
Dry whole milk	23,938	14,366	14,202	-40.7	-1.1
Nonfat dry milk, human	252,674	258,992	263,969	4.5	1.9
Manufacturers' shipments ⁴					
Dry milk products					
Nonfat dry milk, human	143,841	164,495	180,429	25.4	9.7

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: 2021 and 2022

Product and month	Monthly			Cumulative		
	2021	2022	Change from 2021	2021	2022	Change from 2021
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Total cheese ¹						
January	1,143,106	1,172,006	2.5	1,143,106	1,172,006	2.5
February	1,047,673	1,105,338	5.5	2,190,779	2,277,344	4.0
March	1,183,382	1,210,085	2.3	3,374,161	3,487,429	3.4
April	1,154,601	1,158,689	0.4	4,528,762	4,646,118	2.6
May	1,163,223	1,184,113	1.8	5,691,985	5,830,231	2.4
June	1,126,772	1,152,476	2.3	6,818,757	6,982,707	2.4
July	1,145,699	1,151,219	0.5	7,964,456	8,133,926	2.1
August	1,148,755	1,150,434	0.1	9,113,211	9,284,360	1.9
September	1,134,384	1,140,031	0.5	10,247,595	10,424,391	1.7
October	1,152,102	1,171,040	1.6	11,399,697	11,595,431	1.7
November	1,130,406	1,153,661	2.1	12,530,103	12,749,092	1.7
December	1,176,463	1,202,304	2.2	13,706,566	13,951,396	1.8
Total American cheese types ²						
January	478,328	471,650	-1.4	478,328	471,650	-1.4
February	427,090	442,683	3.7	905,418	914,333	1.0
March	480,500	473,724	-1.4	1,385,918	1,388,057	0.2
April	478,196	467,510	-2.2	1,864,114	1,855,567	-0.5
May	481,545	481,173	-0.1	2,345,659	2,336,740	-0.4
June	457,394	461,140	0.8	2,803,053	2,797,880	-0.2
July	467,274	466,434	-0.2	3,270,327	3,264,314	-0.2
August	462,477	453,081	-2.0	3,732,804	3,717,395	-0.4
September	454,668	441,832	-2.8	4,187,472	4,159,227	-0.7
October	460,680	469,466	1.9	4,648,152	4,628,693	-0.4
November	449,639	462,954	3.0	5,097,791	5,091,647	-0.1
December	469,770	481,925	2.6	5,567,561	5,573,572	0.1
Cheddar cheese						
January	352,093	332,479	-5.6	352,093	332,479	-5.6
February	301,126	308,061	2.3	653,219	640,540	-1.9
March	336,776	327,246	-2.8	989,995	967,786	-2.2
April	337,847	319,950	-5.3	1,327,842	1,287,736	-3.0
May	348,365	334,615	-3.9	1,676,207	1,622,351	-3.2
June	329,810	336,594	2.1	2,006,017	1,958,945	-2.3
July	325,011	331,613	2.0	2,331,028	2,290,558	-1.7
August	320,293	314,380	-1.8	2,651,321	2,604,938	-1.7
September	309,879	301,273	-2.8	2,961,200	2,906,211	-1.9
October	324,914	336,106	3.4	3,286,114	3,242,317	-1.3
November	313,524	320,259	2.1	3,599,638	3,562,576	-1.0
December	333,665	338,491	1.4	3,933,303	3,901,067	-0.8

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2021 and 2022 (continued)

Product and month	Monthly			Cumulative		
	2021	2022	Change from 2021	2021	2022	Change from 2021
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Total Italian cheese types						
January	482,461	503,643	4.4	482,461	503,643	4.4
February	443,396	466,287	5.2	925,857	969,930	4.8
March	502,101	517,561	3.1	1,427,958	1,487,491	4.2
April	483,156	489,492	1.3	1,911,114	1,976,983	3.4
May	472,514	486,776	3.0	2,383,628	2,463,759	3.4
June	465,030	482,456	3.7	2,848,658	2,946,215	3.4
July	480,260	486,412	1.3	3,328,918	3,432,627	3.1
August	480,009	488,719	1.8	3,808,927	3,921,346	3.0
September	475,972	494,141	3.8	4,284,899	4,415,487	3.0
October	488,426	496,883	1.7	4,773,325	4,912,370	2.9
November	479,853	488,712	1.8	5,253,178	5,401,082	2.8
December	498,981	513,750	3.0	5,752,159	5,914,832	2.8
Mozzarella						
January	376,540	394,810	4.9	376,540	394,810	4.9
February	344,391	359,283	4.3	720,931	754,093	4.6
March	392,656	407,492	3.8	1,113,587	1,161,585	4.3
April	377,151	386,815	2.6	1,490,738	1,548,400	3.9
May	371,087	388,217	4.6	1,861,825	1,936,617	4.0
June	364,385	382,890	5.1	2,226,210	2,319,507	4.2
July	374,441	390,204	4.2	2,600,651	2,709,711	4.2
August	374,517	385,347	2.9	2,975,168	3,095,058	4.0
September	369,882	384,752	4.0	3,345,050	3,479,810	4.0
October	378,302	388,666	2.7	3,723,352	3,868,476	3.9
November	375,299	384,929	2.6	4,098,651	4,253,405	3.8
December	388,985	404,941	4.1	4,487,636	4,658,346	3.8
Other Italian cheese types						
January	6,374	7,952	24.8	6,374	7,952	24.8
February	6,455	7,304	13.2	12,829	15,256	18.9
March	7,132	8,451	18.5	19,961	23,707	18.8
April	6,577	7,910	20.3	26,538	31,617	19.1
May	6,815	7,930	16.4	33,353	39,547	18.6
June	7,638	8,103	6.1	40,991	47,650	16.2
July	7,750	7,419	-4.3	48,741	55,069	13.0
August	7,708	7,270	-5.7	56,449	62,339	10.4
September	7,639	8,305	8.7	64,088	70,644	10.2
October	8,621	7,944	-7.9	72,709	78,588	8.1
November	8,011	7,903	-1.3	80,720	86,491	7.1
December	8,879	8,731	-1.7	89,599	95,222	6.3

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2021 and 2022 (continued)

Product and month	Monthly			Cumulative		
	2021	2022	Change from 2021	2021	2022	Change from 2021
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Butter						
January	222,262	194,034	-12.7	222,262	194,034	-12.7
February	188,833	183,462	-2.8	411,095	377,496	-8.2
March	199,574	201,940	1.2	610,669	579,436	-5.1
April	182,991	181,179	-1.0	793,660	760,615	-4.2
May	183,041	180,139	-1.6	976,701	940,754	-3.7
June	156,965	160,162	2.0	1,133,666	1,100,916	-2.9
July	147,112	151,731	3.1	1,280,778	1,252,647	-2.2
August	147,053	143,438	-2.5	1,427,831	1,396,085	-2.2
September	143,640	140,789	-2.0	1,571,471	1,536,874	-2.2
October	164,296	161,803	-1.5	1,735,767	1,698,677	-2.1
November	155,987	170,955	9.6	1,891,754	1,869,632	-1.2
December	179,962	187,012	3.9	2,071,716	2,056,644	-0.7
Nonfat dry milk, human						
January	210,168	170,306	-19.0	210,168	170,306	-19.0
February	182,471	170,815	-6.4	392,639	341,121	-13.1
March	198,254	191,349	-3.5	590,893	532,470	-9.9
April	193,792	195,709	1.0	784,685	728,179	-7.2
May	205,470	192,965	-6.1	990,155	921,144	-7.0
June	185,604	169,272	-8.8	1,175,759	1,090,416	-7.3
July	137,789	165,624	20.2	1,313,548	1,256,040	-4.4
August	121,559	134,138	10.3	1,435,107	1,390,178	-3.1
September	139,384	123,476	-11.4	1,574,491	1,513,654	-3.9
October	120,721	123,977	2.7	1,695,212	1,637,631	-3.4
November	161,011	158,223	-1.7	1,856,223	1,795,854	-3.3
December	167,804	179,040	6.7	2,024,027	1,974,894	-2.4
Skim milk powder, total ³						
January	48,065	43,415	-9.7	48,065	43,415	-9.7
February	43,967	29,612	-32.6	92,032	73,027	-20.7
March	52,575	33,146	-37.0	144,607	106,173	-26.6
April	55,977	35,391	-36.8	200,584	141,564	-29.4
May	48,496	38,670	-20.3	249,080	180,234	-27.6
June	54,174	45,165	-16.6	303,254	225,399	-25.7
July	64,413	50,836	-21.1	367,667	276,235	-24.9
August	72,450	56,030	-22.7	440,117	332,265	-24.5
September	72,120	58,474	-18.9	512,237	390,739	-23.7
October	77,649	56,180	-27.6	589,886	446,919	-24.2
November	59,550	40,362	-32.2	649,436	487,281	-25.0
December	48,567	48,893	0.7	698,003	536,174	-23.2

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2021 and 2022 (continued)

Product and month	Monthly			Cumulative		
	2021	2022	Change from 2021	2021	2022	Change from 2021
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Dry whey, total ⁴						
January	83,537	80,406	-3.7	83,537	80,406	-3.7
February	77,154	70,288	-8.9	160,691	150,694	-6.2
March	76,909	83,060	8.0	237,600	233,754	-1.6
April	77,435	82,819	7.0	315,035	316,573	0.5
May	77,277	84,244	9.0	392,312	400,817	2.2
June	76,350	80,229	5.1	468,662	481,046	2.6
July	81,016	85,745	5.8	549,678	566,791	3.1
August	82,302	78,268	-4.9	631,980	645,059	2.1
September	75,185	78,075	3.8	707,165	723,134	2.3
October	74,882	77,347	3.3	782,047	800,481	2.4
November	75,856	71,902	-5.2	857,903	872,383	1.7
December	76,044	75,979	-0.1	933,947	948,362	1.5
Lactose, human and animal						
January	91,730	101,448	10.6	91,730	101,448	10.6
February	84,576	92,778	9.7	176,306	194,226	10.2
March	97,812	96,701	-1.1	274,118	290,927	6.1
April	98,065	100,889	2.9	372,183	391,816	5.3
May	94,741	100,816	6.4	466,924	492,632	5.5
June	96,228	101,972	6.0	563,152	594,604	5.6
July	99,012	99,532	0.5	662,164	694,136	4.8
August	97,958	100,072	2.2	760,122	794,208	4.5
September	100,670	95,309	-5.3	860,792	889,517	3.3
October	96,548	96,665	0.1	957,340	986,182	3.0
November	90,511	88,652	-2.1	1,047,851	1,074,834	2.6
December	103,807	96,954	-6.6	1,151,658	1,171,788	1.7
Whey protein concentrate, total						
January	41,358	47,226	14.2	41,358	47,226	14.2
February	35,794	40,718	13.8	77,152	87,944	14.0
March	40,832	40,768	-0.2	117,984	128,712	9.1
April	49,956	45,511	-8.9	167,940	174,223	3.7
May	40,450	42,988	6.3	208,390	217,211	4.2
June	38,515	42,650	10.7	246,905	259,861	5.2
July	38,689	44,588	15.2	285,594	304,449	6.6
August	41,587	42,938	3.2	327,181	347,387	6.2
September	44,812	45,985	2.6	371,993	393,372	5.7
October	46,622	46,411	-0.5	418,615	439,783	5.1
November	43,440	40,072	-7.8	462,055	479,855	3.9
December	46,935	43,293	-7.8	508,990	523,148	2.8

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2021 and 2022 (continued)

Product and month	Monthly			Cumulative		
	2021	2022	Change from 2021	2021	2022	Change from 2021
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Cottage cheese, cream						
January	26,717	27,422	2.6	26,717	27,422	2.6
February	27,677	28,452	2.8	54,394	55,874	2.7
March	31,597	29,744	-5.9	85,991	85,618	-0.4
April	27,116	26,671	-1.6	113,107	112,289	-0.7
May	28,165	27,576	-2.1	141,272	139,865	-1.0
June	28,624	29,313	2.4	169,896	169,178	-0.4
July	29,474	28,808	-2.3	199,370	197,986	-0.7
August	29,527	31,541	6.8	228,897	229,527	0.3
September	28,604	29,587	3.4	257,501	259,114	0.6
October	27,437	27,357	-0.3	284,938	286,471	0.5
November	26,136	28,426	8.8	311,074	314,897	1.2
December	27,472	26,748	-2.6	338,546	341,645	0.9
Cottage cheese, lowfat						
January	24,664	24,313	-1.4	24,664	24,313	-1.4
February	24,788	24,832	0.2	49,452	49,145	-0.6
March	29,719	26,934	-9.4	79,171	76,079	-3.9
April	25,862	25,403	-1.8	105,033	101,482	-3.4
May	24,753	24,355	-1.6	129,786	125,837	-3.0
June	25,730	24,490	-4.8	155,516	150,327	-3.3
July	26,481	25,305	-4.4	181,997	175,632	-3.5
August	26,252	27,516	4.8	208,249	203,148	-2.4
September	25,745	25,933	0.7	233,994	229,081	-2.1
October	24,129	23,982	-0.6	258,123	253,063	-2.0
November	22,085	22,066	-0.1	280,208	275,129	-1.8
December	23,028	21,857	-5.1	303,236	296,986	-2.1
Sour cream						
January	114,190	121,358	6.3	114,190	121,358	6.3
February	114,679	117,010	2.0	228,869	238,368	4.2
March	133,781	129,936	-2.9	362,650	368,304	1.6
April	119,051	117,676	-1.2	481,701	485,980	0.9
May	120,142	125,224	4.2	601,843	611,204	1.6
June	126,500	123,948	-2.0	728,343	735,152	0.9
July	121,174	115,682	-4.5	849,517	850,834	0.2
August	122,915	127,408	3.7	972,432	978,242	0.6
September	118,932	121,755	2.4	1,091,364	1,099,997	0.8
October	132,853	130,720	-1.6	1,224,217	1,230,717	0.5
November	133,456	135,801	1.8	1,357,673	1,366,518	0.7
December	136,439	133,423	-2.2	1,494,112	1,499,941	0.4

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2021 and 2022 (continued)

Product and month	Monthly			Cumulative		
	2021	2022	Change from 2021	2021	2022	Change from 2021
	(1,000 gallons)	(1,000 gallons)	(percent)	(1,000 gallons)	(1,000 gallons)	(percent)
Ice cream, regular hard						
January	57,904	51,240	-11.5	57,904	51,240	-11.5
February	57,863	54,872	-5.2	115,767	106,112	-8.3
March	68,982	65,973	-4.4	184,749	172,085	-6.9
April	68,856	64,748	-6.0	253,605	236,833	-6.6
May	61,168	61,516	0.6	314,773	298,349	-5.2
June	66,028	66,887	1.3	380,801	365,236	-4.1
July	64,257	59,078	-8.1	445,058	424,314	-4.7
August	63,201	66,434	5.1	508,259	490,748	-3.4
September	55,511	60,890	9.7	563,770	551,638	-2.2
October	54,598	57,121	4.6	618,368	608,759	-1.6
November	52,137	54,080	3.7	670,505	662,839	-1.1
December	52,283	52,159	-0.2	722,788	714,998	-1.1
Ice cream, lowfat total						
January	33,705	27,545	-18.3	33,705	27,545	-18.3
February	36,884	30,891	-16.2	70,589	58,436	-17.2
March	47,296	40,461	-14.5	117,885	98,897	-16.1
April	42,986	38,157	-11.2	160,871	137,054	-14.8
May	43,855	40,244	-8.2	204,726	177,298	-13.4
June	43,004	42,926	-0.2	247,730	220,224	-11.1
July	42,723	40,321	-5.6	290,453	260,545	-10.3
August	40,724	41,624	2.2	331,177	302,169	-8.8
September	36,106	35,080	-2.8	367,283	337,249	-8.2
October	35,214	31,129	-11.6	402,497	368,378	-8.5
November	29,451	28,295	-3.9	431,948	396,673	-8.2
December	28,727	25,002	-13.0	460,675	421,675	-8.5
Sherbet, hard						
January	2,366	2,303	-2.7	2,366	2,303	-2.7
February	2,483	2,519	1.4	4,849	4,822	-0.6
March	2,497	2,826	13.2	7,346	7,648	4.1
April	2,823	2,208	-21.8	10,169	9,856	-3.1
May	2,364	2,228	-5.8	12,533	12,084	-3.6
June	2,617	2,186	-16.5	15,150	14,270	-5.8
July	2,793	2,431	-13.0	17,943	16,701	-6.9
August	2,336	2,192	-6.2	20,279	18,893	-6.8
September	2,148	2,155	0.3	22,427	21,048	-6.1
October	1,957	2,356	20.4	24,384	23,404	-4.0
November	1,773	1,805	1.8	26,157	25,209	-3.6
December	1,833	1,870	2.0	27,990	27,079	-3.3

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2021 and 2022 (continued)

Product and month	Monthly			Cumulative		
	2021	2022	Change from 2021	2021	2022	Change from 2021
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Yogurt, plain and flavored						
January	384,678	372,943	-3.1	384,678	372,943	-3.1
February	382,863	373,445	-2.5	767,541	746,388	-2.8
March	443,374	431,500	-2.7	1,210,915	1,177,888	-2.7
April	414,884	378,182	-8.8	1,625,799	1,556,070	-4.3
May	393,724	399,052	1.4	2,019,523	1,955,122	-3.2
June	389,530	389,218	-0.1	2,409,053	2,344,340	-2.7
July	401,106	377,622	-5.9	2,810,159	2,721,962	-3.1
August	411,210	401,770	-2.3	3,221,369	3,123,732	-3.0
September	409,977	391,913	-4.4	3,631,346	3,515,645	-3.2
October	386,014	390,982	1.3	4,017,360	3,906,627	-2.8
November	355,335	346,852	-2.4	4,372,695	4,253,479	-2.7
December	370,532	361,019	-2.6	4,743,227	4,614,498	-2.7
	(1,000 gallons)	(1,000 gallons)	(percent)	(1,000 gallons)	(1,000 gallons)	(percent)
Frozen yogurt, total						
January	3,033	3,371	11.1	3,033	3,371	11.1
February	3,934	4,272	8.6	6,967	7,643	9.7
March	3,795	4,274	12.6	10,762	11,917	10.7
April	4,895	4,827	-1.4	15,657	16,744	6.9
May	4,248	4,306	1.4	19,905	21,050	5.8
June	4,240	4,035	-4.8	24,145	25,085	3.9
July	4,072	4,177	2.6	28,217	29,262	3.7
August	4,334	4,193	-3.3	32,551	33,455	2.8
September	3,594	3,764	4.7	36,145	37,219	3.0
October	3,562	3,475	-2.4	39,707	40,694	2.5
November	2,901	2,768	-4.6	42,608	43,462	2.0
December	3,789	3,728	-1.6	46,397	47,190	1.7

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:
December 2021 and 2022**

State and region	December 2021	November 2022	December 2022	Change from	
				December 2021	November 2022
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	205,000	206,307	209,027	2.0	1.3
Idaho	88,252	74,516	86,891	-1.5	16.6
Illinois	6,233	5,989	5,938	-4.7	-0.9
Iowa	27,828	33,879	35,092	26.1	3.6
Minnesota	66,945	67,388	69,544	3.9	3.2
New Jersey	5,753	5,467	6,008	4.4	9.9
New Mexico	84,100	80,741	83,452	-0.8	3.4
New York	66,161	71,418	72,421	9.5	1.4
Ohio	23,899	21,282	23,215	-2.9	9.1
Pennsylvania	34,367	35,356	39,906	16.1	12.9
Vermont	12,241	12,559	12,910	5.5	2.8
Wisconsin	296,131	285,263	300,267	1.4	5.3
Other States ¹	259,553	253,496	257,633	-0.7	1.6
United States	1,176,463	1,153,661	1,202,304	2.2	4.2
Atlantic	131,077	136,724	143,689	9.6	5.1
Central	572,698	559,524	584,886	2.1	4.5
West	472,688	457,413	473,729	0.2	3.6

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: December 2021 and 2022

State and region	December 2021	November 2022	December 2022	Change from	
				December 2021	November 2022
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	47,039	45,032	46,482	-1.2	3.2
Iowa	11,911	18,815	18,741	57.3	-0.4
Minnesota	54,151	55,584	58,959	8.9	6.1
New York	10,644	11,830	12,645	18.8	6.9
Wisconsin	90,105	88,398	93,300	3.5	5.5
Other States ¹	255,920	243,295	251,798	-1.6	3.5
United States	469,770	462,954	481,925	2.6	4.1
Atlantic	27,775	28,777	30,199	8.7	4.9
Central	250,558	250,530	262,779	4.9	4.9
West	191,437	183,647	188,947	-1.3	2.9

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: December 2021 and 2022

State and region	December 2021	November 2022	December 2022	Change from	
				December 2021	November 2022
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	24,563	22,890	23,940	-2.5	4.6
Vermont	8,846	9,074	9,375	6.0	3.3
Wisconsin	62,953	57,940	61,800	-1.8	6.7
Other States ¹	237,303	230,355	243,376	2.6	5.7
United States	333,665	320,259	338,491	1.4	5.7
Atlantic	26,177	26,598	28,627	9.4	7.6
Central	178,794	166,222	178,541	-0.1	7.4
West	128,694	127,439	131,323	2.0	3.0

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: December 2021 and 2022

State and region	December 2021	November 2022	December 2022	Change from	
				December 2021	November 2022
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	135,472	136,175	139,408	2.9	2.4
Minnesota	12,463	11,490	10,290	-17.4	-10.4
New Jersey	2,922	2,751	3,475	18.9	26.3
New York	27,238	29,884	31,220	14.6	4.5
Pennsylvania	20,924	20,821	24,969	19.3	19.9
Wisconsin	140,310	139,119	144,216	2.8	3.7
Other States ¹	159,652	148,472	160,172	0.3	7.9
United States	498,981	488,712	513,750	3.0	5.1
Atlantic	55,483	57,538	64,033	15.4	11.3
Central	209,136	207,771	213,207	1.9	2.6
West	234,362	223,403	236,510	0.9	5.9

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

Mozzarella Cheese Production – States, United States, and Regions: December 2021 and 2022

State and region	December 2021	November 2022	December 2022	Change from	
				December 2021	November 2022
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	124,784	126,010	128,548	3.0	2.0
New Jersey	1,405	1,283	1,501	6.8	17.0
New York	13,436	14,332	15,431	14.8	7.7
Pennsylvania	17,038	16,699	20,907	22.7	25.2
Wisconsin	88,881	89,094	91,300	2.7	2.5
Other States ¹	143,441	137,511	147,254	2.7	7.1
United States	388,985	384,929	404,941	4.1	5.2
Atlantic	35,038	35,360	40,990	17.0	15.9
Central	132,084	137,520	140,211	6.2	2.0
West	221,863	212,049	223,740	0.8	5.5

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

Butter Production – States, United States, and Regions: December 2021 and 2022

State and region	December 2021	November 2022	December 2022	Change from	
				December 2021	November 2022
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	60,078	56,379	58,908	-1.9	4.5
Pennsylvania	8,830	7,078	7,700	-12.8	8.8
Other States ¹	111,054	107,498	120,404	8.4	12.0
United States	179,962	170,955	187,012	3.9	9.4
Atlantic	15,871	12,251	15,408	-2.9	25.8
Central	71,666	66,623	75,693	5.6	13.6
West	92,425	92,081	95,911	3.8	4.2

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: December 2021 and 2022

State and region	December 2021	November 2022	December 2022	Change from	
				December 2021	November 2022
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	80,116	69,954	83,916	4.7	20.0
Pennsylvania	15,499	13,684	15,844	2.2	15.8
Other States ¹	72,189	74,585	79,280	9.8	6.3
United States	167,804	158,223	179,040	6.7	13.2
Atlantic	28,096	27,223	30,564	8.8	12.3
Central	29,380	32,297	34,514	17.5	6.9
West	110,328	98,703	113,962	3.3	15.5

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: December 2021 and 2022

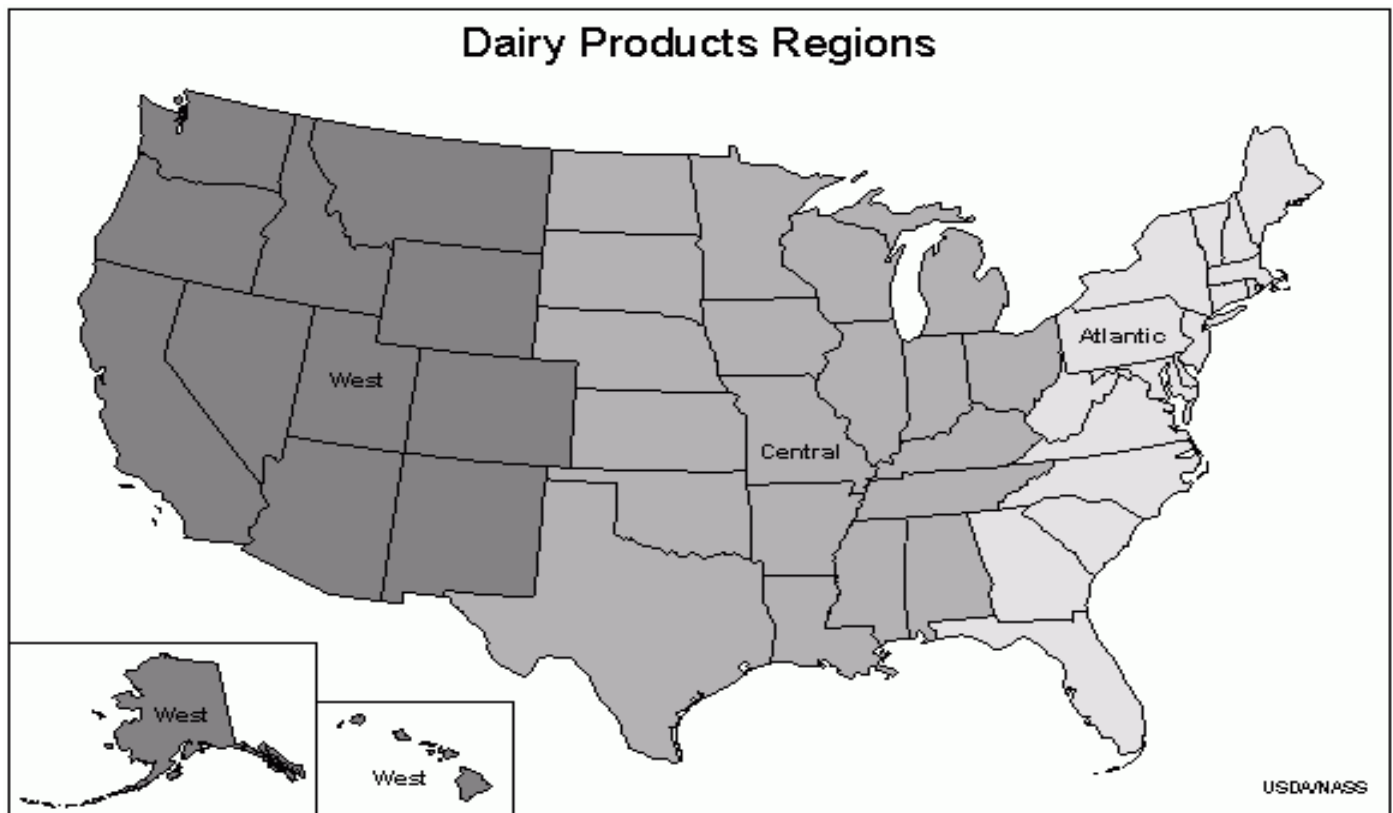
State and region	December 2021	November 2022	December 2022	Change from	
				December 2021	November 2022
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
New York	11,154	10,273	10,769	-3.5	4.8
Wisconsin	25,777	22,973	24,697	-4.2	7.5
Other States ¹	37,351	36,842	38,008	1.8	3.2
United States	74,282	70,088	73,474	-1.1	4.8
Atlantic	24,656	19,000	21,474	-12.9	13.0
Central	36,541	33,931	35,276	-3.5	4.0
West	13,085	17,157	16,724	27.8	-2.5

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: December 2021 and 2022

State and region	December 2021	November 2022	December 2022	Change from	
				December 2021	November 2022
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
California	4,249	5,662	4,465	5.1	-21.1
Connecticut	989	1,290	985	-0.4	-23.6
New York	1,358	1,305	1,312	-3.4	0.5
Ohio	2,266	2,140	1,977	-12.8	-7.6
Oregon	885	927	1,020	15.3	10.0
Pennsylvania	3,458	3,193	3,389	-2.0	6.1
Tennessee	1,547	2,088	1,528	-1.2	-26.8
Utah	1,003	1,272	1,150	14.7	-9.6
Wisconsin	482	600	547	13.5	-8.8
Other States ¹	36,046	35,603	35,786	-0.7	0.5
United States	52,283	54,080	52,159	-0.2	-3.6
Atlantic	11,456	11,655	10,524	-8.1	-9.7
Central	33,157	33,201	33,366	0.6	0.5
West	7,670	9,224	8,269	7.8	-10.4

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 2021, there were 1,196 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.

Travis Averill, Chief, Livestock Branch	(202) 692-0069
Scott Hollis, Head, Livestock Section	(202) 690-2424
Sherry Bertramsen – Livestock Slaughter	(202) 690-8632
Ryan Cowen – Cattle, Cattle on Feed	(202) 720-3040
Anthony Fischer – Hogs and Pigs	(202) 720-3106
Mike Miller – Milk Production and Milk Cows	(202) 720-3278
Suzanne Richards – Dairy Products	(202) 720-4448
Suzanne Richards – Sheep and Goats	(202) 720-4448

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