



Dairy Products

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December 2021 Highlights

Total cheese output (excluding cottage cheese) was 1.16 billion pounds, 0.1 percent above December 2020 and 3.0 percent above November 2021.

Italian type cheese production totaled 485 million pounds, 1.3 percent below December 2020 but 1.3 percent above November 2021.

American type cheese production totaled 469 million pounds, 1.2 percent below December 2020 but 4.5 percent above November 2021.

Butter production was 180 million pounds, 13.2 percent below December 2020 but 15.4 percent above November 2021.

Dry milk products (comparisons in percentage with December 2020)

Nonfat dry milk, human - 166 million pounds, down 20.1 percent.

Skim milk powder - 38.0 million pounds, down 24.9 percent.

Whey products (comparisons in percentage with December 2020)

Dry whey, total - 77.2 million pounds, down 5.0 percent.

Lactose, human and animal - 97.2 million pounds, up 2.3 percent.

Whey protein concentrate, total - 42.9 million pounds, down 0.4 percent.

Frozen products (comparisons in percentage with December 2020)

Ice cream, regular (hard) - 52.4 million gallons, down 1.9 percent.

Ice cream, lowfat (total) - 28.0 million gallons, down 12.9 percent.

Sherbet (hard) - 1.86 million gallons, down 33.9 percent.

Frozen yogurt (total) - 2.49 million gallons, down 5.4 percent.

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Dairy Products Production by Product – United States: December 2020 and 2021

Product	December 2020	November 2021	December 2021	Change from	
				December 2020	November 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Butter	207,529	156,118	180,105	-13.2	15.4
Cheese					
American types ¹	474,946	449,258	469,274	-1.2	4.5
Cheddar	349,162	313,885	334,603	-4.2	6.6
Other American types	125,784	135,373	134,671	7.1	-0.5
Blue and Gorgonzola	4,918	7,907	7,562	53.8	-4.4
Brick and Muenster	13,785	16,516	16,163	17.3	-2.1
Cream and Neufchatel	88,646	88,740	92,239	4.1	3.9
Feta	8,938	8,359	9,113	2.0	9.0
Gouda	3,864	4,394	4,117	6.5	-6.3
Hispanic	27,561	27,558	28,025	1.7	1.7
Italian types	490,878	478,321	484,563	-1.3	1.3
Mozzarella	382,737	374,204	371,263	-3.0	-0.8
Parmesan	42,139	40,362	47,063	11.7	16.6
Provolone	30,165	28,158	27,791	-7.9	-1.3
Ricotta	23,349	22,600	23,976	2.7	6.1
Romano	5,707	5,280	5,961	4.5	12.9
Other Italian types	6,781	7,717	8,509	25.5	10.3
Swiss	27,793	27,365	31,293	12.6	14.4
All other types	13,154	13,562	13,642	3.7	0.6
Total cheese ²	1,154,483	1,121,980	1,155,991	0.1	3.0
Cottage cheese, curd ³	29,688	27,311	28,561	-3.8	4.6
Cottage cheese, cream ⁴	29,258	26,091	26,272	-10.2	0.7
Cottage cheese, lowfat ⁵	23,495	22,098	23,228	-1.1	5.1
Sour cream	132,789	134,172	133,702	0.7	-0.4
Yogurt, plain and flavored	358,291	355,645	369,101	3.0	3.8
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
Frozen products					
Ice cream, regular, hard	53,441	53,010	52,404	-1.9	-1.1
Ice cream, lowfat, hard	16,915	15,071	15,022	-11.2	-0.3
Ice cream, lowfat, soft	15,252	13,814	12,997	-14.8	-5.9
Ice cream, lowfat, total ⁶	32,167	28,885	28,019	-12.9	-3.0
Ice cream, nonfat, hard	410	549	572	39.5	4.2
Sherbet, hard	2,816	1,853	1,861	-33.9	0.4
Frozen yogurt, total	2,636	1,949	2,493	-5.4	27.9
Regular and lowfat, hard	1,142	935	1,061	-7.1	13.5
Nonfat, hard	274	283	212	-22.6	-25.1
Other frozen dairy products	1,082	744	893	-17.5	20.0
Water and juice ices	3,911	4,702	4,226	8.1	-10.1
Mix for frozen products					
Ice cream, regular, mix	32,769	32,771	32,254	-1.6	-1.6
Ice cream, lowfat, mix ⁷	16,746	16,204	15,689	-6.3	-3.2
Ice cream, nonfat, mix	552	383	529	-4.2	38.1
Sherbet mix	1,950	1,409	1,398	-28.3	-0.8
Yogurt mix	1,414	1,009	1,430	1.1	41.7

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:
December 2020 and 2021**

Product	December 2020	November 2021	December 2021	Change from	
				December 2020	November 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Condensed whey, solids content ¹					
Sweet-type, human	8,491	6,114	6,074	-28.5	-0.7
Dry whey products					
Dry whey, human	80,122	73,004	75,864	-5.3	3.9
Dry whey, animal	1,179	2,030	1,332	13.0	-34.4
Dry whey, total	81,301	75,034	77,196	-5.0	2.9
Reduced lactose and minerals					
Human	1,672	3,238	3,470	107.5	7.2
Animal	2,715	5,821	3,940	45.1	-32.3
Whey protein concentrate					
Human ²	42,350	44,855	41,243	-2.6	-8.1
Animal ²	787	1,783	1,706	116.8	-4.3
Total ²	43,137	46,638	42,949	-0.4	-7.9
25.0-49.9 percent ³	16,611	16,886	14,496	-12.7	-14.2
50.0-89.9 percent ³	26,526	29,752	28,453	7.3	-4.4
Whey protein isolates ⁴	10,941	11,145	10,675	-2.4	-4.2
Lactose, human and animal	95,013	91,603	97,209	2.3	6.1
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	64,927	58,711	57,522	-11.4	-2.0
Dry whey, animal	691	1,899	765	10.7	-59.7
Dry whey, total	65,618	60,610	58,287	-11.2	-3.8
Reduced Lactose and minerals					
Human and animal ⁶	7,152	6,425	6,475	-9.5	0.8
Whey protein concentrate					
Human ²	61,956	66,849	68,380	10.4	2.3
Animal ²	903	1,400	1,636	81.2	16.9
Total ²	62,859	68,249	70,016	11.4	2.6
25.0-49.9 percent ³	26,528	23,867	25,151	-5.2	5.4
50.0-89.9 percent ³	36,331	44,382	44,865	23.5	1.1
Whey protein isolates ⁴	15,073	12,408	13,447	-10.8	8.4
Lactose, human and animal	123,021	146,033	147,780	20.1	1.2
	(cents per pound)	(cents per pound)	(cents per pound)	(cents change)	(cents change)
Manufacturers' selling price ⁷					
Dry whey, animal	27.8	29.9	41.2	13.4	11.4

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 2020 and 2021**

Product	December 2020	November 2021	December 2021	Change from	
				December 2020	November 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Production					
Bulk condensed milk					
Skim, unsweetened	100,477	104,726	102,640	2.2	-2.0
Dry milk products					
Dry buttermilk, total	12,154	9,499	12,313	1.3	29.6
Dry skim milk, animal	845	405	649	-23.2	60.2
Dry whole milk	12,197	10,565	16,474	35.1	55.9
Milk protein concentrate, total ¹	18,767	15,165	17,454	-7.0	15.1
Nonfat dry milk, human	208,252	155,793	166,395	-20.1	6.8
Skim milk powder, total ²	50,648	49,068	38,013	-24.9	-22.5
Manufacturers' stocks end-of-month ³					
Dry milk products					
Dry buttermilk, total	18,850	18,754	20,840	10.6	11.1
Dry skim milk, animal	8,659	7,626	6,027	-30.4	-21.0
Dry whole milk	16,871	18,022	23,938	41.9	32.8
Nonfat dry milk, human	287,855	226,877	243,933	-15.3	7.5
Manufacturers' shipments ⁴					
Dry milk products					
Nonfat dry milk, human	154,470	154,931	143,711	-7.0	-7.2

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: 2020 and 2021

Product and month	Monthly			Cumulative		
	2020	2021	Change from 2020	2020	2021	Change from 2020
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Total cheese ¹						
January	1,124,768	1,135,567	1.0	1,124,768	1,135,567	1.0
February	1,032,907	1,043,505	1.0	2,157,675	2,179,072	1.0
March	1,121,446	1,175,989	4.9	3,279,121	3,355,061	2.3
April	1,051,959	1,135,900	8.0	4,331,080	4,490,961	3.7
May	1,101,211	1,157,550	5.1	5,432,291	5,648,511	4.0
June	1,121,598	1,121,555	-	6,553,889	6,770,066	3.3
July	1,110,115	1,143,239	3.0	7,664,004	7,913,305	3.3
August	1,091,546	1,146,746	5.1	8,755,550	9,060,051	3.5
September	1,104,235	1,133,745	2.7	9,859,785	10,193,796	3.4
October	1,136,863	1,152,795	1.4	10,996,648	11,346,591	3.2
November	1,102,292	1,121,980	1.8	12,098,940	12,468,571	3.1
December	1,154,483	1,155,991	0.1	13,253,423	13,624,562	2.8
Total American cheese types ²						
January	442,207	474,315	7.3	442,207	474,315	7.3
February	414,155	426,094	2.9	856,362	900,409	5.1
March	446,423	476,720	6.8	1,302,785	1,377,129	5.7
April	446,525	472,424	5.8	1,749,310	1,849,553	5.7
May	441,148	478,522	8.5	2,190,458	2,328,075	6.3
June	431,782	453,428	5.0	2,622,240	2,781,503	6.1
July	453,096	466,236	2.9	3,075,336	3,247,739	5.6
August	445,137	458,518	3.0	3,520,473	3,706,257	5.3
September	432,114	448,435	3.8	3,952,587	4,154,692	5.1
October	460,217	458,835	-0.3	4,412,804	4,613,527	4.5
November	449,783	449,258	-0.1	4,862,587	5,062,785	4.1
December	474,946	469,274	-1.2	5,337,533	5,532,059	3.6
Cheddar cheese						
January	323,344	346,949	7.3	323,344	346,949	7.3
February	296,659	300,535	1.3	620,003	647,484	4.4
March	314,114	333,787	6.3	934,117	981,271	5.0
April	330,119	334,079	1.2	1,264,236	1,315,350	4.0
May	315,704	345,978	9.6	1,579,940	1,661,328	5.2
June	302,960	326,915	7.9	1,882,900	1,988,243	5.6
July	322,775	324,233	0.5	2,205,675	2,312,476	4.8
August	323,153	319,498	-1.1	2,528,828	2,631,974	4.1
September	303,253	308,505	1.7	2,832,081	2,940,479	3.8
October	325,354	320,443	-1.5	3,157,435	3,260,922	3.3
November	321,553	313,885	-2.4	3,478,988	3,574,807	2.8
December	349,162	334,603	-4.2	3,828,150	3,909,410	2.1

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2020 and 2021 (continued)

Product and month	Monthly			Cumulative		
	2020	2021	Change from 2020	2020	2021	Change from 2020
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Total Italian cheese types						
January	488,692	481,029	-1.6	488,692	481,029	-1.6
February	445,765	443,254	-0.6	934,457	924,283	-1.1
March	485,546	502,468	3.5	1,420,003	1,426,751	0.5
April	447,648	481,988	7.7	1,867,651	1,908,739	2.2
May	482,323	481,370	-0.2	2,349,974	2,390,109	1.7
June	485,761	470,553	-3.1	2,835,735	2,860,662	0.9
July	454,998	483,375	6.2	3,290,733	3,344,037	1.6
August	445,538	485,061	8.9	3,736,271	3,829,098	2.5
September	469,823	486,098	3.5	4,206,094	4,315,196	2.6
October	473,294	489,418	3.4	4,679,388	4,804,614	2.7
November	454,904	478,321	5.1	5,134,292	5,282,935	2.9
December	490,878	484,563	-1.3	5,625,170	5,767,498	2.5
Mozzarella						
January	384,730	374,948	-2.5	384,730	374,948	-2.5
February	352,735	345,504	-2.0	737,465	720,452	-2.3
March	386,397	392,357	1.5	1,123,862	1,112,809	-1.0
April	353,043	376,809	6.7	1,476,905	1,489,618	0.9
May	379,446	376,774	-0.7	1,856,351	1,866,392	0.5
June	389,307	369,194	-5.2	2,245,658	2,235,586	-0.4
July	364,832	376,286	3.1	2,610,490	2,611,872	0.1
August	355,527	379,576	6.8	2,966,017	2,991,448	0.9
September	371,610	378,479	1.8	3,337,627	3,369,927	1.0
October	371,411	378,296	1.9	3,709,038	3,748,223	1.1
November	358,817	374,204	4.3	4,067,855	4,122,427	1.3
December	382,737	371,263	-3.0	4,450,592	4,493,690	1.0
Other Italian cheese types						
January	6,867	6,284	-8.5	6,867	6,284	-8.5
February	5,943	6,180	4.0	12,810	12,464	-2.7
March	6,739	7,108	5.5	19,549	19,572	0.1
April	5,152	6,549	27.1	24,701	26,121	5.7
May	6,572	6,792	3.3	31,273	32,913	5.2
June	6,095	7,609	24.8	37,368	40,522	8.4
July	5,353	7,690	43.7	42,721	48,212	12.9
August	6,113	7,673	25.5	48,834	55,885	14.4
September	6,869	7,907	15.1	55,703	63,792	14.5
October	6,723	8,242	22.6	62,426	72,034	15.4
November	6,653	7,717	16.0	69,079	79,751	15.4
December	6,781	8,509	25.5	75,860	88,260	16.3

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2020 and 2021 (continued)

Product and month	Monthly			Cumulative		
	2020	2021	Change from 2020	2020	2021	Change from 2020
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Butter						
January	204,937	209,630	2.3	204,937	209,630	2.3
February	194,746	186,304	-4.3	399,683	395,934	-0.9
March	200,040	198,920	-0.6	599,723	594,854	-0.8
April	227,200	183,851	-19.1	826,923	778,705	-5.8
May	172,343	184,894	7.3	999,266	963,599	-3.6
June	149,135	160,335	7.5	1,148,401	1,123,934	-2.1
July	152,947	150,625	-1.5	1,301,348	1,274,559	-2.1
August	150,921	147,982	-1.9	1,452,269	1,422,541	-2.0
September	150,709	143,409	-4.8	1,602,978	1,565,950	-2.3
October	161,980	161,046	-0.6	1,764,958	1,726,996	-2.2
November	172,899	156,118	-9.7	1,937,857	1,883,114	-2.8
December	207,529	180,105	-13.2	2,145,386	2,063,219	-3.8
Nonfat dry milk, human						
January	184,097	198,025	7.6	184,097	198,025	7.6
February	174,749	183,614	5.1	358,846	381,639	6.4
March	173,665	199,307	14.8	532,511	580,946	9.1
April	202,632	194,262	-4.1	735,143	775,208	5.4
May	157,236	205,427	30.6	892,379	980,635	9.9
June	154,033	187,018	21.4	1,046,412	1,167,653	11.6
July	166,138	157,662	-5.1	1,212,550	1,325,315	9.3
August	147,194	121,978	-17.1	1,359,744	1,447,293	6.4
September	126,249	119,217	-5.6	1,485,993	1,566,510	5.4
October	141,255	123,153	-12.8	1,627,248	1,689,663	3.8
November	155,435	155,793	0.2	1,782,683	1,845,456	3.5
December	208,252	166,395	-20.1	1,990,935	2,011,851	1.1
Skim milk powder, total ³						
January	41,232	35,992	-12.7	41,232	35,992	-12.7
February	38,751	31,639	-18.4	79,983	67,631	-15.4
March	55,841	39,638	-29.0	135,824	107,269	-21.0
April	51,611	46,966	-9.0	187,435	154,235	-17.7
May	56,669	35,704	-37.0	244,104	189,939	-22.2
June	60,519	43,452	-28.2	304,623	233,391	-23.4
July	61,369	51,215	-16.5	365,992	284,606	-22.2
August	69,232	61,493	-11.2	435,224	346,099	-20.5
September	81,084	63,225	-22.0	516,308	409,324	-20.7
October	63,309	68,698	8.5	579,617	478,022	-17.5
November	64,961	49,068	-24.5	644,578	527,090	-18.2
December	50,648	38,013	-24.9	695,226	565,103	-18.7

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2020 and 2021 (continued)

Product and month	Monthly			Cumulative		
	2020	2021	Change from 2020	2020	2021	Change from 2020
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Dry whey, total ⁴						
January	85,353	83,988	-1.6	85,353	83,988	-1.6
February	77,137	75,323	-2.4	162,490	159,311	-2.0
March	83,482	79,609	-4.6	245,972	238,920	-2.9
April	75,824	74,694	-1.5	321,796	313,614	-2.5
May	84,109	77,738	-7.6	405,905	391,352	-3.6
June	81,713	71,356	-12.7	487,618	462,708	-5.1
July	82,616	81,094	-1.8	570,234	543,802	-4.6
August	78,720	76,697	-2.6	648,954	620,499	-4.4
September	76,954	70,198	-8.8	725,908	690,697	-4.9
October	75,148	81,510	8.5	801,056	772,207	-3.6
November	68,652	75,034	9.3	869,708	847,241	-2.6
December	81,301	77,196	-5.0	951,009	924,437	-2.8
Lactose, human and animal						
January	84,665	93,798	10.8	84,665	93,798	10.8
February	84,265	79,123	-6.1	168,930	172,921	2.4
March	94,831	99,375	4.8	263,761	272,296	3.2
April	88,674	91,508	3.2	352,435	363,804	3.2
May	90,928	95,288	4.8	443,363	459,092	3.5
June	102,804	94,642	-7.9	546,167	553,734	1.4
July	99,916	98,099	-1.8	646,083	651,833	0.9
August	95,837	92,290	-3.7	741,920	744,123	0.3
September	93,454	91,848	-1.7	835,374	835,971	0.1
October	86,843	96,944	11.6	922,217	932,915	1.2
November	85,542	91,603	7.1	1,007,759	1,024,518	1.7
December	95,013	97,209	2.3	1,102,772	1,121,727	1.7
Whey protein concentrate, total						
January	41,350	43,800	5.9	41,350	43,800	5.9
February	35,487	37,512	5.7	76,837	81,312	5.8
March	40,094	42,286	5.5	116,931	123,598	5.7
April	37,341	39,159	4.9	154,272	162,757	5.5
May	39,074	42,393	8.5	193,346	205,150	6.1
June	40,189	38,328	-4.6	233,535	243,478	4.3
July	39,655	39,821	0.4	273,190	283,299	3.7
August	40,061	38,565	-3.7	313,251	321,864	2.7
September	40,988	38,249	-6.7	354,239	360,113	1.7
October	40,971	46,572	13.7	395,210	406,685	2.9
November	39,311	46,638	18.6	434,521	453,323	4.3
December	43,137	42,949	-0.4	477,658	496,272	3.9

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2020 and 2021 (continued)

Product and month	Monthly			Cumulative		
	2020	2021	Change from 2020	2020	2021	Change from 2020
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Cottage cheese, cream						
January	27,957	26,622	-4.8	27,957	26,622	-4.8
February	26,723	27,470	2.8	54,680	54,092	-1.1
March	31,391	31,376	-	86,071	85,468	-0.7
April	31,530	27,227	-13.6	117,601	112,695	-4.2
May	31,032	28,246	-9.0	148,633	140,941	-5.2
June	29,649	28,923	-2.4	178,282	169,864	-4.7
July	31,016	29,483	-4.9	209,298	199,347	-4.8
August	30,517	29,433	-3.6	239,815	228,780	-4.6
September	33,831	28,632	-15.4	273,646	257,412	-5.9
October	32,294	27,437	-15.0	305,940	284,849	-6.9
November	27,508	26,091	-5.2	333,448	310,940	-6.8
December	29,258	26,272	-10.2	362,706	337,212	-7.0
Cottage cheese, lowfat						
January	26,533	24,428	-7.9	26,533	24,428	-7.9
February	24,575	24,271	-1.2	51,108	48,699	-4.7
March	27,979	28,722	2.7	79,087	77,421	-2.1
April	26,753	25,170	-5.9	105,840	102,591	-3.1
May	24,688	24,261	-1.7	130,528	126,852	-2.8
June	24,951	24,447	-2.0	155,479	151,299	-2.7
July	27,393	26,314	-3.9	182,872	177,613	-2.9
August	25,885	25,972	0.3	208,757	203,585	-2.5
September	26,719	25,583	-4.3	235,476	229,168	-2.7
October	27,540	23,915	-13.2	263,016	253,083	-3.8
November	22,228	22,098	-0.6	285,244	275,181	-3.5
December	23,495	23,228	-1.1	308,739	298,409	-3.3
Sour cream						
January	120,042	115,248	-4.0	120,042	115,248	-4.0
February	104,435	113,749	8.9	224,477	228,997	2.0
March	115,545	133,250	15.3	340,022	362,247	6.5
April	110,956	119,400	7.6	450,978	481,647	6.8
May	135,931	120,542	-11.3	586,909	602,189	2.6
June	121,733	123,718	1.6	708,642	725,907	2.4
July	112,681	121,354	7.7	821,323	847,261	3.2
August	117,149	123,136	5.1	938,472	970,397	3.4
September	120,885	119,780	-0.9	1,059,357	1,090,177	2.9
October	138,408	136,657	-1.3	1,197,765	1,226,834	2.4
November	130,353	134,172	2.9	1,328,118	1,361,006	2.5
December	132,789	133,702	0.7	1,460,907	1,494,708	2.3

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2020 and 2021 (continued)

Product and month	Monthly			Cumulative		
	2020	2021	Change from 2020	2020	2021	Change from 2020
	(1,000 gallons)	(1,000 gallons)	(percent)	(1,000 gallons)	(1,000 gallons)	(percent)
Ice cream, regular hard						
January	54,775	56,990	4.0	54,775	56,990	4.0
February	55,045	55,630	1.1	109,820	112,620	2.5
March	64,287	70,028	8.9	174,107	182,648	4.9
April	63,439	67,955	7.1	237,546	250,603	5.5
May	64,598	61,173	-5.3	302,144	311,776	3.2
June	72,777	67,019	-7.9	374,921	378,795	1.0
July	73,592	64,506	-12.3	448,513	443,301	-1.2
August	70,473	63,596	-9.8	518,986	506,897	-2.3
September	68,194	57,718	-15.4	587,180	564,615	-3.8
October	63,264	55,652	-12.0	650,444	620,267	-4.6
November	54,826	53,010	-3.3	705,270	673,277	-4.5
December	53,441	52,404	-1.9	758,711	725,681	-4.4
Ice cream, lowfat total						
January	33,533	30,737	-8.3	33,533	30,737	-8.3
February	37,999	33,507	-11.8	71,532	64,244	-10.2
March	42,867	44,486	3.8	114,399	108,730	-5.0
April	39,368	41,177	4.6	153,767	149,907	-2.5
May	45,133	44,880	-0.6	198,900	194,787	-2.1
June	47,269	44,076	-6.8	246,169	238,863	-3.0
July	45,547	44,102	-3.2	291,716	282,965	-3.0
August	45,371	41,993	-7.4	337,087	324,958	-3.6
September	41,756	36,644	-12.2	378,843	361,602	-4.6
October	38,173	34,426	-9.8	417,016	396,028	-5.0
November	33,279	28,885	-13.2	450,295	424,913	-5.6
December	32,167	28,019	-12.9	482,462	452,932	-6.1
Sherbet, hard						
January	2,386	2,666	11.7	2,386	2,666	11.7
February	2,840	2,605	-8.3	5,226	5,271	0.9
March	2,721	2,559	-6.0	7,947	7,830	-1.5
April	2,425	2,797	15.3	10,372	10,627	2.5
May	2,328	2,334	0.3	12,700	12,961	2.1
June	3,246	2,678	-17.5	15,946	15,639	-1.9
July	3,210	2,856	-11.0	19,156	18,495	-3.5
August	3,416	2,372	-30.6	22,572	20,867	-7.6
September	2,962	2,283	-22.9	25,534	23,150	-9.3
October	2,882	2,068	-28.2	28,416	25,218	-11.3
November	2,300	1,853	-19.4	30,716	27,071	-11.9
December	2,816	1,861	-33.9	33,532	28,932	-13.7

See footnote(s) at end of table.

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Dairy Products Production by Product and Month – United States: 2020 and 2021 (continued)

Product and month	Monthly			Cumulative		
	2020	2021	Change from 2020	2020	2021	Change from 2020
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Yogurt, plain and flavored						
January	355,942	385,594	8.3	355,942	385,594	8.3
February	380,263	381,121	0.2	736,205	766,715	4.1
March	438,213	442,886	1.1	1,174,418	1,209,601	3.0
April	361,848	413,835	14.4	1,536,266	1,623,436	5.7
May	373,099	388,759	4.2	1,909,365	2,012,195	5.4
June	398,683	385,738	-3.2	2,308,048	2,397,933	3.9
July	365,149	392,305	7.4	2,673,197	2,790,238	4.4
August	382,228	402,655	5.3	3,055,425	3,192,893	4.5
September	391,449	404,137	3.2	3,446,874	3,597,030	4.4
October	386,630	386,209	-0.1	3,833,504	3,983,239	3.9
November	326,611	355,645	8.9	4,160,115	4,338,884	4.3
December	358,291	369,101	3.0	4,518,406	4,707,985	4.2
	(1,000 gallons)	(1,000 gallons)	(percent)	(1,000 gallons)	(1,000 gallons)	(percent)
Frozen yogurt, total						
January	2,818	3,804	35.0	2,818	3,804	35.0
February	3,223	4,101	27.2	6,041	7,905	30.9
March	3,602	3,153	-12.5	9,643	11,058	14.7
April	2,570	2,431	-5.4	12,213	13,489	10.4
May	2,623	2,318	-11.6	14,836	15,807	6.5
June	3,440	3,400	-1.2	18,276	19,207	5.1
July	3,564	3,174	-10.9	21,840	22,381	2.5
August	3,231	2,869	-11.2	25,071	25,250	0.7
September	3,156	2,892	-8.4	28,227	28,142	-0.3
October	2,483	2,592	4.4	30,710	30,734	0.1
November	2,130	1,949	-8.5	32,840	32,683	-0.5
December	2,636	2,493	-5.4	35,476	35,176	-0.8

- Represents zero.

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 2020 and 2021**

State and region	December 2020	November 2021	December 2021	Change from	
				December 2020	November 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	207,633	202,801	187,840	-9.5	-7.4
Idaho	85,505	77,284	88,173	3.1	14.1
Illinois	5,168	5,179	6,129	18.6	18.3
Iowa	29,960	26,317	28,516	-4.8	8.4
Minnesota	65,962	63,315	66,144	0.3	4.5
New Jersey	5,584	5,218	5,454	-2.3	4.5
New Mexico	81,859	78,816	84,100	2.7	6.7
New York	70,818	64,697	66,052	-6.7	2.1
Ohio	21,815	22,082	23,995	10.0	8.7
Oregon	20,428	19,603	20,792	1.8	6.1
Pennsylvania	38,417	35,000	35,364	-7.9	1.0
South Dakota	40,738	43,933	44,192	8.5	0.6
Vermont	13,214	12,458	12,538	-5.1	0.6
Wisconsin	296,845	279,063	292,126	-1.6	4.7
Other States ¹	170,537	186,214	194,576	14.1	4.5
United States	1,154,483	1,121,980	1,155,991	0.1	3.0
Atlantic	140,109	129,118	131,628	-6.1	1.9
Central	550,567	539,807	566,871	3.0	5.0
West	463,807	453,055	457,492	-1.4	1.0

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 2020 and 2021

State and region	December 2020	November 2021	December 2021	Change from	
				December 2020	November 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	51,600	46,095	47,039	-8.8	2.0
Idaho	51,408	49,634	51,596	0.4	4.0
Iowa	18,363	12,548	12,599	-31.4	0.4
Minnesota	53,634	51,670	53,404	-0.4	3.4
New York	12,276	10,406	11,274	-8.2	8.3
Oregon	20,315	19,497	20,691	1.9	6.1
Wisconsin	95,865	85,700	89,278	-6.9	4.2
Other States ¹	171,485	173,708	183,393	6.9	5.6
United States	474,946	449,258	469,274	-1.2	4.5
Atlantic	29,084	26,919	27,786	-4.5	3.2
Central	246,224	237,532	248,037	0.7	4.4
West	199,638	184,807	193,451	-3.1	4.7

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 2020 and 2021

State and region	December 2020	November 2021	December 2021	Change from	
				December 2020	November 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	27,247	20,708	24,563	-9.9	18.6
Iowa	12,724	7,223	7,579	-40.4	4.9
Minnesota	52,776	50,302	52,042	-1.4	3.5
Oregon	17,563	16,637	17,460	-0.6	4.9
Vermont	8,600	8,840	8,851	2.9	0.1
Wisconsin	68,879	59,000	62,600	-9.1	6.1
Other States ¹	161,373	151,175	161,508	0.1	6.8
United States	349,162	313,885	334,603	-4.2	6.6
Atlantic	27,173	25,873	26,699	-1.7	3.2
Central	179,084	164,087	177,194	-1.1	8.0
West	142,905	123,925	130,710	-8.5	5.5

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 2020 and 2021

State and region	December 2020	November 2021	December 2021	Change from	
				December 2020	November 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	136,371	134,774	118,311	-13.2	-12.2
Idaho	29,468	22,825	32,005	8.6	40.2
Minnesota	12,071	11,384	12,411	2.8	9.0
New Jersey	3,106	2,595	2,922	-5.9	12.6
New York	30,285	28,033	27,653	-8.7	-1.4
Pennsylvania	24,025	22,080	21,919	-8.8	-0.7
Wisconsin	143,607	133,715	141,040	-1.8	5.5
Other States ¹	111,945	122,915	128,302	14.6	4.4
United States	490,878	478,321	484,563	-1.3	1.3
Atlantic	62,493	57,050	57,528	-7.9	0.8
Central	205,506	199,478	209,834	2.1	5.2
West	222,879	221,793	217,201	-2.5	-2.1

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

Mozzarella Cheese Production – States, United States, and Regions: December 2020 and 2021

State and region	December 2020	November 2021	December 2021	Change from	
				December 2020	November 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	125,829	124,459	103,807	-17.5	-16.6
Idaho	28,783	22,321	30,982	7.6	38.8
New York	15,245	14,150	14,145	-7.2	-
Pennsylvania	20,040	17,861	18,032	-10.0	1.0
Wisconsin	93,603	85,390	91,000	-2.8	6.6
Other States ¹	99,237	110,023	113,297	14.2	3.0
United States	382,737	374,204	371,263	-3.0	-0.8
Atlantic	39,358	35,825	36,227	-8.0	1.1
Central	132,830	128,245	134,150	1.0	4.6
West	210,549	210,134	200,886	-4.6	-4.4

- Represents zero.

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 2020 and 2021

State and region	December 2020	November 2021	December 2021	Change from	
				December 2020	November 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	62,074	53,237	60,078	-3.2	12.9
New York	3,053	525	571	-81.3	8.8
Pennsylvania	8,392	7,566	8,831	5.2	16.7
Other States ¹	134,010	94,790	110,625	-17.5	16.7
United States	207,529	156,118	180,105	-13.2	15.4
Atlantic	18,887	12,384	15,219	-19.4	22.9
Central	84,076	61,574	72,460	-13.8	17.7
West	104,566	82,160	92,426	-11.6	12.5

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: December 2020 and 2021

State and region	December 2020	November 2021	December 2021	Change from	
				December 2020	November 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	85,512	71,772	80,116	-6.3	11.6
Pennsylvania	18,051	12,849	15,499	-14.1	20.6
Other States ¹	104,689	71,172	70,780	-32.4	-0.6
United States	208,252	155,793	166,395	-20.1	6.8
Atlantic	34,984	25,060	27,131	-22.4	8.3
Central	45,916	31,604	28,936	-37.0	-8.4
West	127,352	99,129	110,328	-13.4	11.3

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

Dry Whey (Human) Production – States, United States, and Regions: December 2020 and 2021

State and region	December 2020	November 2021	December 2021	Change from	
				December 2020	November 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
New York	11,779	11,490	12,114	2.8	5.4
Wisconsin	28,167	23,930	24,299	-13.7	1.5
Other States ¹	40,176	37,584	39,451	-1.8	5.0
United States	80,122	73,004	75,864	-5.3	3.9
Atlantic	22,271	21,517	22,616	1.5	5.1
Central	39,362	34,014	35,063	-10.9	3.1
West	18,489	17,473	18,185	-1.6	4.1

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: December 2020 and 2021

State and region	December 2020	November 2021	December 2021	Change from	
				December 2020	November 2021
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
California	4,181	4,952	4,218	0.9	-14.8
Connecticut	1,157	1,126	1,028	-11.1	-8.7
Missouri	1,362	2,193	1,594	17.0	-27.3
New York	1,572	1,478	1,422	-9.5	-3.8
Ohio	2,365	2,077	2,268	-4.1	9.2
Oregon	926	839	888	-4.1	5.8
Pennsylvania	3,290	3,669	3,489	6.0	-4.9
Tennessee	1,664	2,106	2,039	22.5	-3.2
Utah	2,121	1,050	865	-59.2	-17.6
Wisconsin	526	471	458	-12.9	-2.8
Other States ¹	34,277	33,049	34,135	-0.4	3.3
United States	53,441	53,010	52,404	-1.9	-1.1
Atlantic	12,693	12,008	11,518	-9.3	-4.1
Central	31,893	32,824	33,405	4.7	1.8
West	8,855	8,178	7,481	-15.5	-8.5

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

Dairy Products Regions



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 2020, there were 1,242 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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