



Dairy Products

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October 2021 Highlights

Total cheese output (excluding cottage cheese) was 1.15 billion pounds, 0.9 percent above October 2020 and 1.1 percent above September 2021.

Italian type cheese production totaled 490 million pounds, 3.5 percent above October 2020 and 0.8 percent above September 2021.

American type cheese production totaled 457 million pounds, 0.6 percent below October 2020 but 2.0 percent above September 2021.

Butter production was 159 million pounds, 1.6 percent below October 2020 but 11.2 percent above September 2021.

Dry milk products (comparisons in percentage with October 2020)

Nonfat dry milk, human - 125 million pounds, down 11.7 percent.

Skim milk powder - 58.3 million pounds, down 7.9 percent.

Whey products (comparisons in percentage with October 2020)

Dry whey, total - 78.2 million pounds, up 4.0 percent.

Lactose, human and animal - 97.0 million pounds, up 11.7 percent.

Whey protein concentrate, total - 46.6 million pounds, up 13.8 percent.

Frozen products (comparisons in percentage with October 2020)

Ice cream, regular (hard) - 55.3 million gallons, down 12.6 percent.

Ice cream, lowfat (total) - 33.7 million gallons, down 11.8 percent.

Sherbet (hard) - 2.12 million gallons, down 26.4 percent.

Frozen yogurt (total) - 2.61 million gallons, up 5.0 percent.

Contents

Dairy Products Production by Product – United States: October 2020 and 2021	3
Whey and Modified Whey Products Production, Stocks, and Prices – United States: October 2020 and 2021.....	4
Condensed and Dry Milk Products Production, Stocks, and Shipments – United States: October 2020 and 2021.....	5
Dairy Products Production by Product and Month – United States: 2020 and 2021	6
Total Cheese Production Excluding Cottage Cheese – States, United States, and Regions: October 2020 and 2021	13
American Cheese Production – States, United States, and Regions: October 2020 and 2021.....	14
Cheddar Cheese Production – States, United States, and Regions: October 2020 and 2021	14
Total Italian Cheese Production – States, United States, and Regions: October 2020 and 2021.....	15
Mozzarella Cheese Production – States, United States, and Regions: October 2020 and 2021	15
Butter Production – States, United States, and Regions: October 2020 and 2021.....	16
Nonfat Dry Milk (Human) Production – States, United States, and Regions: October 2020 and 2021.....	16
Dry Whey (Human) Production – States, United States, and Regions: October 2020 and 2021.....	17
Ice Cream, Regular (Hard) Production – States, United States, and Regions: October 2020 and 2021	17
Dairy Products Regions.....	18
Statistical Methodology.....	19
Information Contacts.....	20

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

Product	October 2020	September 2021	October 2021	Change from	
				October 2020	September 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Butter	161,980	143,409	159,419	-1.6	11.2
Cheese					
American types ¹	460,217	448,435	457,453	-0.6	2.0
Cheddar	325,354	308,505	320,656	-1.4	3.9
Other American types	134,863	139,930	136,797	1.4	-2.2
Blue and Gorgonzola	6,530	7,532	8,894	36.2	18.1
Brick and Muenster	16,842	14,653	16,851	0.1	15.0
Cream and Neufchatel	91,338	89,704	85,020	-6.9	-5.2
Feta	12,583	14,368	12,572	-0.1	-12.5
Gouda	3,810	2,922	3,703	-2.8	26.7
Hispanic	29,092	31,144	31,771	9.2	2.0
Italian types	473,294	486,098	489,772	3.5	0.8
Mozzarella	371,411	378,479	377,835	1.7	-0.2
Parmesan	35,822	38,173	40,481	13.0	6.0
Provolone	32,403	33,351	33,110	2.2	-0.7
Ricotta	22,985	22,551	24,038	4.6	6.6
Romano	3,950	5,637	5,594	41.6	-0.8
Other Italian types	6,723	7,907	8,714	29.6	10.2
Swiss	28,070	25,691	26,928	-4.1	4.8
All other types	15,087	13,198	13,627	-9.7	3.3
Total cheese ²	1,136,863	1,133,745	1,146,591	0.9	1.1
Cottage cheese, curd ³	33,867	29,917	30,375	-10.3	1.5
Cottage cheese, cream ⁴	32,294	28,632	29,083	-9.9	1.6
Cottage cheese, lowfat ⁵	27,540	25,583	24,102	-12.5	-5.8
Sour cream	138,408	119,780	136,725	-1.2	14.1
Yogurt, plain and flavored	386,630	404,137	374,964	-3.0	-7.2
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
Frozen products					
Ice cream, regular, hard	63,264	57,718	55,313	-12.6	-4.2
Ice cream, lowfat, hard	20,217	18,552	17,218	-14.8	-7.2
Ice cream, lowfat, soft	17,956	18,092	16,468	-8.3	-9.0
Ice cream, lowfat, total ⁶	38,173	36,644	33,686	-11.8	-8.1
Ice cream, nonfat, hard	579	505	527	-9.0	4.4
Sherbet, hard	2,882	2,283	2,121	-26.4	-7.1
Frozen yogurt, total	2,483	2,892	2,608	5.0	-9.8
Regular and lowfat, hard	1,104	1,121	999	-9.5	-10.9
Nonfat, hard	225	195	455	102.2	133.3
Other frozen dairy products	1,428	960	926	-35.2	-3.5
Water and juice ices	5,152	5,347	4,865	-5.6	-9.0
Mix for frozen products					
Ice cream, regular, mix	39,813	37,299	35,262	-11.4	-5.5
Ice cream, lowfat, mix ⁷	19,337	20,598	18,923	-2.1	-8.1
Ice cream, nonfat, mix	490	401	359	-26.7	-10.5
Sherbet mix	1,957	1,775	1,595	-18.5	-10.1
Yogurt mix	1,285	1,460	1,402	9.1	-4.0

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:
October 2020 and 2021**

Product	October 2020	September 2021	October 2021	Change from	
				October 2020	September 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Condensed whey, solids content ¹					
Sweet-type, human	8,678	6,517	6,325	-27.1	-2.9
Dry whey products					
Dry whey, human	74,000	68,807	76,858	3.9	11.7
Dry whey, animal	1,148	1,391	1,326	15.5	-4.7
Dry whey, total	75,148	70,198	78,184	4.0	11.4
Reduced lactose and minerals					
Human	2,416	1,677	2,731	13.0	62.9
Animal	3,070	2,777	3,965	29.2	42.8
Whey protein concentrate					
Human ²	40,547	37,522	45,323	11.8	20.8
Animal ²	424	727	1,313	209.7	80.6
Total ²	40,971	38,249	46,636	13.8	21.9
25.0-49.9 percent ³	16,368	12,527	16,736	2.2	33.6
50.0-89.9 percent ³	24,603	25,722	29,900	21.5	16.2
Whey protein isolates ⁴	10,466	9,725	11,022	5.3	13.3
Lactose, human and animal	86,843	91,848	96,970	11.7	5.6
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	67,986	60,148	56,554	-16.8	-6.0
Dry whey, animal	1,114	3,174	1,561	40.1	-50.8
Dry whey, total	69,100	63,322	58,115	-15.9	-8.2
Reduced Lactose and minerals					
Human and animal ⁶	6,710	6,953	6,476	-3.5	-6.9
Whey protein concentrate					
Human ²	61,786	62,993	65,229	5.6	3.5
Animal ²	797	811	816	2.4	0.6
Total ²	62,583	63,804	66,045	5.5	3.5
25.0-49.9 percent ³	25,447	24,832	23,815	-6.4	-4.1
50.0-89.9 percent ³	37,136	38,972	42,230	13.7	8.4
Whey protein isolates ⁴	14,099	11,318	11,578	-17.9	2.3
Lactose, human and animal	104,707	145,566	149,270	42.6	2.5
	(cents per pound)	(cents per pound)	(cents per pound)	(cents change)	(cents change)
Manufacturers' selling price ⁷					
Dry whey, animal	21.6	25.6	32.0	10.3	6.3

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:
October 2020 and 2021**

Product	October 2020	September 2021	October 2021	Change from	
				October 2020	September 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Production					
Bulk condensed milk					
Skim, unsweetened	102,010	98,471	104,799	2.7	6.4
Dry milk products					
Dry buttermilk, total	8,525	10,418	9,140	7.2	-12.3
Dry skim milk, animal	786	717	909	15.6	26.8
Dry whole milk	12,125	9,963	9,445	-22.1	-5.2
Milk protein concentrate, total ¹	18,498	12,529	16,363	-11.5	30.6
Nonfat dry milk, human	141,255	119,217	124,718	-11.7	4.6
Skim milk powder, total ²	63,309	63,225	58,335	-7.9	-7.7
Manufacturers' stocks end-of-month ³					
Dry milk products					
Dry buttermilk, total	16,505	18,586	19,184	16.2	3.2
Dry skim milk, animal	9,133	9,029	8,072	-11.6	-10.6
Dry whole milk	13,801	19,884	9,941	-28.0	-50.0
Nonfat dry milk, human	235,547	264,278	221,767	-5.9	-16.1
Manufacturers' shipments ⁴					
Dry milk products					
Nonfat dry milk, human	135,372	158,432	159,812	18.1	0.9

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

[Blank data cells indicate estimation period has not yet begun]

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	1,146,591	0.9	10,996,648	11,340,387	3.1
November	1,102,292			12,098,940		
December	1,154,483			13,253,423		
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	457,453	-0.6	4,412,804	4,612,145	4.5
November	449,783			4,862,587		
December	474,946			5,337,533		
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	320,656	-1.4	3,157,435	3,261,135	3.3
November	321,553			3,478,988		
December	349,162			3,828,150		

See footnote(s) at end of table.

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

[Blank data cells indicate estimation period has not yet begun]

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	489,772	3.5	4,679,388	4,804,968	2.7
November	454,904			5,134,292		
December	490,878			5,625,170		
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	377,835	1.7	3,709,038	3,747,762	1.0
November	358,817			4,067,855		
December	382,737			4,450,592		
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	8,714	29.6	62,426	72,506	16.1
November	6,653			69,079		
December	6,781			75,860		

See footnote(s) at end of table.

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

[Blank data cells indicate estimation period has not yet begun]

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	159,419	-1.6	1,764,958	1,725,369	-2.2
November	172,899			1,937,857		
December	207,529			2,145,386		
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	124,718	-11.7	1,627,248	1,691,228	3.9
November	155,435			1,782,683		
December	208,252			1,990,935		
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	58,335	-7.9	579,617	467,659	-19.3
November	64,961			644,578		
December	50,648			695,226		

See footnote(s) at end of table.

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

[Blank data cells indicate estimation period has not yet begun]

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	78,184	4.0	801,056	768,881	-4.0
November	68,652			869,708		
December	81,301			951,009		
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	96,970	11.7	922,217	932,941	1.2
November	85,542			1,007,759		
December	95,013			1,102,772		
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	46,636	13.8	395,210	406,749	2.9
November	39,311			434,521		
December	43,137			477,658		

See footnote(s) at end of table.

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

[Blank data cells indicate estimation period has not yet begun]

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	29,083	-9.9	305,940	286,495	-6.4
November	27,508			333,448		
December	29,258			362,706		
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	24,102	-12.5	263,016	253,270	-3.7
November	22,228			285,244		
December	23,495			308,739		
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	136,725	-1.2	1,197,765	1,226,902	2.4
November	130,353			1,328,118		
December	132,789			1,460,907		

See footnote(s) at end of table.

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

[Blank data cells indicate estimation period has not yet begun]

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	55,313	-12.6	650,444	619,928	-4.7
November	54,826			705,270		
December	53,441			758,711		
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	33,686	-11.8	417,016	395,288	-5.2
November	33,279			450,295		
December	32,167			482,462		
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	2,121	-26.4	28,416	25,271	-11.1
November	2,300			30,716		
December	2,816			33,532		

See footnote(s) at end of table.

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

[Blank data cells indicate estimation period has not yet begun]

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	374,964	-3.0	3,833,504	3,971,994	3.6
November	326,611			4,160,115		
December	358,291			4,518,406		
	(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	2,608	5.0	30,710	30,750	0.1
November	2,130			32,840		
December	2,636			35,476		

- 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:
October 2020 and 2021**

State and region	October 2020	September 2021	October 2021	Change from	
				October 2020	September 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	200,299	201,377	205,639	2.7	2.1
Idaho	85,855	83,351	85,107	-0.9	2.1
Illinois	5,453	4,658	5,837	7.0	25.3
Iowa	29,633	28,288	27,373	-7.6	-3.2
Minnesota	64,308	63,809	63,337	-1.5	-0.7
New Jersey	6,077	5,751	5,947	-2.1	3.4
New Mexico	83,278	69,384	81,731	-1.9	17.8
New York	77,854	73,223	70,024	-10.1	-4.4
Ohio	21,075	20,156	21,080	-	4.6
Oregon	20,111	21,229	20,355	1.2	-4.1
Pennsylvania	36,317	36,600	37,734	3.9	3.1
South Dakota	41,237	43,621	43,181	4.7	-1.0
Vermont	12,364	11,695	12,274	-0.7	5.0
Wisconsin	296,634	287,810	288,656	-2.7	0.3
Other States ¹	156,368	182,793	178,316	14.0	-2.4
United States	1,136,863	1,133,745	1,146,591	0.9	1.1
Atlantic	143,905	138,904	137,815	-4.2	-0.8
Central	538,546	548,787	551,240	2.4	0.4
West	454,412	446,054	457,536	0.7	2.6

- Represents zero.

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: October 2020 and 2021

State and region	October 2020	September 2021	October 2021	Change from	
				October 2020	September 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	50,001	46,691	48,819	-2.4	4.6
Idaho	55,841	48,288	52,608	-5.8	8.9
Iowa	15,930	15,045	13,331	-16.3	-11.4
Minnesota	53,574	52,161	52,001	-2.9	-0.3
New York	11,467	11,649	7,433	-35.2	-36.2
Oregon	20,001	21,143	20,245	1.2	-4.2
Wisconsin	93,898	88,251	88,300	-6.0	0.1
Other States ¹	159,505	165,207	174,716	9.5	5.8
United States	460,217	448,435	457,453	-0.6	2.0
Atlantic	27,613	26,516	24,190	-12.4	-8.8
Central	231,777	243,027	242,928	4.8	-
West	200,827	178,892	190,335	-5.2	6.4

- Represents zero.

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: October 2020 and 2021

State and region	October 2020	September 2021	October 2021	Change from	
				October 2020	September 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	23,928	22,301	25,185	5.3	12.9
Iowa	10,067	9,036	8,399	-16.6	-7.0
Minnesota	52,819	50,466	50,766	-3.9	0.6
Oregon	17,645	18,848	18,348	4.0	-2.7
Vermont	7,888	7,942	8,620	9.3	8.5
Wisconsin	65,179	59,372	60,300	-7.5	1.6
Other States ¹	147,828	140,540	149,038	0.8	6.0
United States	325,354	308,505	320,656	-1.4	3.9
Atlantic	25,745	25,152	22,994	-10.7	-8.6
Central	161,488	165,327	168,478	4.3	1.9
West	138,121	118,026	129,184	-6.5	9.5

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: October 2020 and 2021

State and region	October 2020	September 2021	October 2021	Change from	
				October 2020	September 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	128,442	133,870	133,796	4.2	-0.1
Idaho	25,280	29,953	27,238	7.7	-9.1
Minnesota	10,466	11,371	11,090	6.0	-2.5
New Jersey	3,089	2,772	3,205	3.8	15.6
New York	32,545	29,712	31,893	-2.0	7.3
Pennsylvania	19,830	21,636	22,560	13.8	4.3
Wisconsin	139,711	138,073	135,791	-2.8	-1.7
Other States ¹	113,931	118,711	124,199	9.0	4.6
United States	473,294	486,098	489,772	3.5	0.8
Atlantic	59,524	59,301	61,728	3.7	4.1
Central	197,849	202,229	201,893	2.0	-0.2
West	215,921	224,568	226,151	4.7	0.7

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: October 2020 and 2021

State and region	October 2020	September 2021	October 2021	Change from	
				October 2020	September 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	119,448	125,299	124,407	4.2	-0.7
Idaho	24,757	29,176	26,402	6.6	-9.5
New York	15,126	13,934	14,494	-4.2	4.0
Pennsylvania	16,723	17,568	18,608	11.3	5.9
Wisconsin	89,498	87,075	83,571	-6.6	-4.0
Other States ¹	105,859	105,427	110,353	4.2	4.7
United States	371,411	378,479	377,835	1.7	-0.2
Atlantic	35,941	36,227	37,257	3.7	2.8
Central	130,126	128,339	126,205	-3.0	-1.7
West	205,344	213,913	214,373	4.4	0.2

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

Butter Production – States, United States, and Regions: October 2020 and 2021

State and region	October 2020	September 2021	October 2021	Change from	
				October 2020	September 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	51,584	47,394	51,786	0.4	9.3
New York	2,030	324	735	-63.8	126.9
Pennsylvania	8,170	6,536	6,519	-20.2	-0.3
Other States ¹	100,196	89,155	100,379	0.2	12.6
United States	161,980	143,409	159,419	-1.6	11.2
Atlantic	14,897	10,334	10,724	-28.0	3.8
Central	60,523	53,392	56,341	-6.9	5.5
West	86,560	79,683	92,354	6.7	15.9

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: October 2020 and 2021

State and region	October 2020	September 2021	October 2021	Change from	
				October 2020	September 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	47,797	41,228	46,485	-2.7	12.8
Pennsylvania	12,892	12,186	12,356	-4.2	1.4
Other States ¹	80,566	65,803	65,877	-18.2	0.1
United States	141,255	119,217	124,718	-11.7	4.6
Atlantic	25,233	21,206	21,691	-14.0	2.3
Central	33,419	23,408	22,113	-33.8	-5.5
West	82,603	74,603	80,914	-2.0	8.5

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: October 2020 and 2021

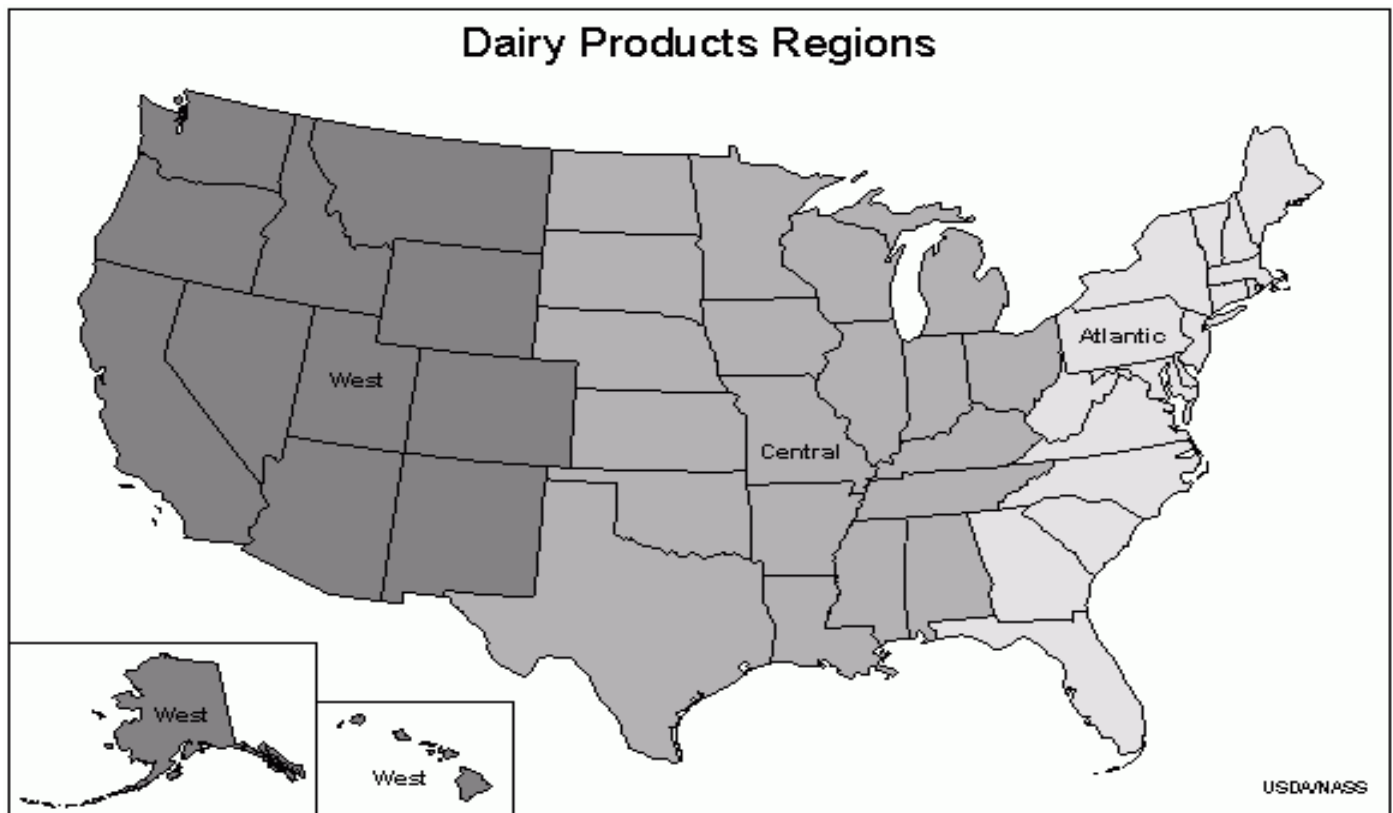
State and region	October 2020	September 2021	October 2021	Change from	
				October 2020	September 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
New York	11,498	11,253	13,748	19.6	22.2
Wisconsin	21,275	21,575	23,904	12.4	10.8
Other States ¹	41,227	35,979	39,206	-4.9	9.0
United States	74,000	68,807	76,858	3.9	11.7
Atlantic	21,214	20,719	23,434	10.5	13.1
Central	32,106	32,099	34,394	7.1	7.1
West	20,680	15,989	19,030	-8.0	19.0

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: October 2020 and 2021

State and region	October 2020	September 2021	October 2021	Change from	
				October 2020	September 2021
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
California	6,048	5,687	4,450	-26.4	-21.8
Connecticut	1,263	1,393	1,321	4.6	-5.2
Missouri	2,720	2,875	2,755	1.3	-4.2
New York	2,330	1,812	1,796	-22.9	-0.9
Ohio	2,706	2,383	2,379	-12.1	-0.2
Oregon	1,124	809	871	-22.5	7.7
Pennsylvania	3,990	3,419	3,178	-20.4	-7.0
Tennessee	1,736	2,336	2,093	20.6	-10.4
Utah	2,837	1,237	1,145	-59.6	-7.4
Wisconsin	938	613	597	-36.4	-2.6
Other States ¹	37,572	35,154	34,728	-7.6	-1.2
United States	63,264	57,718	55,313	-12.6	-4.2
Atlantic	15,352	13,375	12,994	-15.4	-2.8
Central	36,307	35,040	34,279	-5.6	-2.2
West	11,605	9,303	8,040	-30.7	-13.6

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 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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Access to NASS Reports

For your convenience, you may access NASS reports and products the following ways:

- All reports are available electronically, at no cost, on the NASS web site: www.nass.usda.gov
- Both national and state specific reports are available via a free e-mail subscription. To set-up this free subscription, visit www.nass.usda.gov and click on “National” or “State” in upper right corner above “search” box to create an account and select the reports you would like to receive.
- Cornell’s Mann Library has launched a new website housing NASS’s and other agency’s archived reports. The new website, <https://usda.library.cornell.edu>. All email subscriptions containing reports will be sent from the new website, <https://usda.library.cornell.edu>. To continue receiving the reports via e-mail, you will have to go to the new website, create a new account and re-subscribe to the reports. If you need instructions to set up an account or subscribe, they are located at: <https://usda.library.cornell.edu/help>. You should whitelist notifications@usda-esmis.library.cornell.edu in your email client to avoid the emails going into spam/junk folders.

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

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