



Dairy Products

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May 2021 Highlights

Total cheese output (excluding cottage cheese) was 1.16 billion pounds, 5.0 percent above May 2020 and 1.8 percent above April 2021.

Italian type cheese production totaled 481 million pounds, 0.2 percent below May 2020 and 0.1 percent below April 2021.

American type cheese production totaled 473 million pounds, 7.2 percent above May 2020 and 0.1 percent above April 2021.

Butter production was 185 million pounds, 7.6 percent above May 2020 and 0.9 percent above April 2021.

Dry milk products (comparisons in percentage with May 2020)

Nonfat dry milk, human - 205 million pounds, up 30.6 percent.

Skim milk powder - 35.7 million pounds, down 37.0 percent.

Whey products (comparisons in percentage with May 2020)

Dry whey, total - 77.7 million pounds, down 7.6 percent.

Lactose, human and animal - 94.6 million pounds, up 4.0 percent.

Whey protein concentrate, total - 42.3 million pounds, up 8.2 percent.

Frozen products (comparisons in percentage with May 2020)

Ice cream, regular (hard) - 61.2 million gallons, down 5.2 percent.

Ice cream, lowfat (total) - 44.9 million gallons, down 0.5 percent.

Sherbet (hard) - 2.34 million gallons, up 0.3 percent.

Frozen yogurt (total) - 2.27 million gallons, down 13.5 percent.

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

Product	May 2020	April 2021	May 2021	Change from	
				May 2020	April 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Butter	172,343	183,851	185,449	7.6	0.9
Cheese					
American types ¹	441,148	472,424	473,123	7.2	0.1
Cheddar	315,704	334,079	343,024	8.7	2.7
Other American types	125,444	138,345	130,099	3.7	-6.0
Blue and Gorgonzola	4,434	7,431	11,231	153.3	51.1
Brick and Muenster	18,188	15,744	17,837	-1.9	13.3
Cream and Neufchatel	76,750	76,033	86,512	12.7	13.8
Feta	10,090	9,405	13,673	35.5	45.4
Gouda	2,703	3,644	5,613	107.7	54.0
Hispanic	29,871	27,634	27,328	-8.5	-1.1
Italian types	482,323	481,988	481,316	-0.2	-0.1
Mozzarella	379,446	376,809	376,699	-0.7	-
Parmesan	35,179	41,216	40,551	15.3	-1.6
Provolone	33,655	30,829	34,444	2.3	11.7
Ricotta	22,703	20,486	16,508	-27.3	-19.4
Romano	4,768	6,099	6,313	32.4	3.5
Other Italian types	6,572	6,549	6,801	3.5	3.8
Swiss	24,242	28,931	27,470	13.3	-5.0
All other types	11,462	12,666	12,085	5.4	-4.6
Total cheese ²	1,101,211	1,135,900	1,156,188	5.0	1.8
Cottage cheese, curd ³	30,987	29,264	28,505	-8.0	-2.6
Cottage cheese, cream ⁴	31,032	27,227	28,268	-8.9	3.8
Cottage cheese, lowfat ⁵	24,688	25,170	24,195	-2.0	-3.9
Sour cream	135,931	119,400	120,533	-11.3	0.9
Yogurt, plain and flavored	373,099	413,835	388,720	4.2	-6.1
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
Frozen products					
Ice cream, regular, hard	64,598	67,955	61,211	-5.2	-9.9
Ice cream, lowfat, hard	22,585	21,104	21,948	-2.8	4.0
Ice cream, lowfat, soft	22,548	20,073	22,978	1.9	14.5
Ice cream, lowfat, total ⁶	45,133	41,177	44,926	-0.5	9.1
Ice cream, nonfat, hard	407	754	700	72.0	-7.2
Sherbet, hard	2,328	2,797	2,336	0.3	-16.5
Frozen yogurt, total	2,623	2,431	2,270	-13.5	-6.6
Regular and lowfat, hard	1,506	1,085	983	-34.7	-9.4
Nonfat, hard	140	214	310	121.4	44.9
Other frozen dairy products	1,051	1,078	1,060	0.9	-1.7
Water and juice ices	6,330	6,430	6,447	1.8	0.3
Mix for frozen products					
Ice cream, regular, mix	42,364	46,613	39,576	-6.6	-15.1
Ice cream, lowfat, mix ⁷	24,834	23,127	25,311	1.9	9.4
Ice cream, nonfat, mix	354	506	395	11.6	-21.9
Sherbet mix	1,599	2,068	1,689	5.6	-18.3
Yogurt mix	1,246	1,706	1,177	-5.5	-31.0

- Represents zero.

¹ Includes Cheddar, Colby, washed curd, stirred curd, Monterey, and Jack.

² Excludes Cottage Cheese.

³ Mostly used for processing into cream or lowfat cottage cheese.

⁴ Fat content 4 percent or more.

⁵ Fat content less than 4 percent.

⁶ Includes freezer-made milkshake.

⁷ Includes milkshake mix.

**Whey and Modified Whey Products Production, Stocks, and Prices – United States:
May 2020 and 2021**

Product	May 2020	April 2021	May 2021	Change from	
				May 2020	April 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Condensed whey, solids content ¹					
Sweet-type, human	9,164	6,731	6,655	-27.4	-1.1
Dry whey products					
Dry whey, human	82,739	73,336	76,401	-7.7	4.2
Dry whey, animal	1,370	1,358	1,337	-2.4	-1.5
Dry whey, total	84,109	74,694	77,738	-7.6	4.1
Reduced lactose and minerals					
Human	2,123	2,004	1,962	-7.6	-2.1
Animal	2,932	2,847	3,107	6.0	9.1
Whey protein concentrate					
Human ²	38,119	38,091	40,833	7.1	7.2
Animal ²	955	1,068	1,428	49.5	33.7
Total ²	39,074	39,159	42,261	8.2	7.9
25.0-49.9 percent ³	14,854	12,692	15,151	2.0	19.4
50.0-89.9 percent ³	24,220	26,467	27,110	11.9	2.4
Whey protein isolates ⁴	10,823	10,310	10,290	-4.9	-0.2
Lactose, human and animal	90,928	91,508	94,576	4.0	3.4
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	85,351	59,244	65,504	-23.3	10.6
Dry whey, animal	889	981	995	11.9	1.4
Dry whey, total	86,240	60,225	66,499	-22.9	10.4
Reduced Lactose and minerals					
Human and animal ⁶	5,874	6,716	6,544	11.4	-2.6
Whey protein concentrate					
Human ²	64,410	59,487	61,693	-4.2	3.7
Animal ²	1,336	1,412	1,988	48.8	40.8
Total ²	65,746	60,899	63,681	-3.1	4.6
25.0-49.9 percent ³	24,362	22,444	24,832	1.9	10.6
50.0-89.9 percent ³	41,384	38,455	38,849	-6.1	1.0
Whey protein isolates ⁴	16,511	12,765	12,191	-26.2	-4.5
Lactose, human and animal	96,765	126,033	128,981	33.3	2.3
	(cents per pound)	(cents per pound)	(cents per pound)	(cents change)	(cents change)
Manufacturers' selling price ⁷					
Dry whey, animal	29.1	38.0	37.0	7.9	-1.0

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:
May 2020 and 2021**

Product	May 2020	April 2021	May 2021	Change from	
				May 2020	April 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Production					
Bulk condensed milk					
Skim, unsweetened	122,670	124,284	124,430	1.4	0.1
Dry milk products					
Dry buttermilk, total	12,196	13,146	10,695	-12.3	-18.6
Dry skim milk, animal	1,042	576	693	-33.5	20.3
Dry whole milk	14,384	13,760	14,166	-1.5	3.0
Milk protein concentrate, total ¹	13,354	18,942	18,974	42.1	0.2
Nonfat dry milk, human	157,236	194,262	205,337	30.6	5.7
Skim milk powder, total ²	56,669	46,966	35,704	-37.0	-24.0
Manufacturers' stocks end-of-month ³					
Dry milk products					
Dry buttermilk, total	23,796	23,020	21,246	-10.7	-7.7
Dry skim milk, animal	11,270	9,650	9,879	-12.3	2.4
Dry whole milk	16,477	15,669	18,016	9.3	15.0
Nonfat dry milk, human	338,824	317,789	347,849	2.7	9.5
Manufacturers' shipments ⁴					
Dry milk products					
Nonfat dry milk, human	206,177	192,866	176,323	-14.5	-8.6

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	1,156,188	5.0	5,432,291	5,647,149	4.0
June	1,121,598			6,553,889		
July	1,110,115			7,664,004		
August	1,091,546			8,755,550		
September	1,104,235			9,859,785		
October	1,136,863			10,996,648		
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	473,123	7.2	2,190,458	2,322,676	6.0
June	431,782			2,622,240		
July	453,096			3,075,336		
August	445,137			3,520,473		
September	432,114			3,952,587		
October	460,217			4,412,804		
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	343,024	8.7	1,579,940	1,658,374	5.0
June	302,960			1,882,900		
July	322,775			2,205,675		
August	323,153			2,528,828		
September	303,253			2,832,081		
October	325,354			3,157,435		
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	481,316	-0.2	2,349,974	2,390,055	1.7
June	485,761			2,835,735		
July	454,998			3,290,733		
August	445,538			3,736,271		
September	469,823			4,206,094		
October	473,294			4,679,388		
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	376,699	-0.7	1,856,351	1,866,317	0.5
June	389,307			2,245,658		
July	364,832			2,610,490		
August	355,527			2,966,017		
September	371,610			3,337,627		
October	371,411			3,709,038		
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	6,801	3.5	31,273	32,922	5.3
June	6,095			37,368		
July	5,353			42,721		
August	6,113			48,834		
September	6,869			55,703		
October	6,723			62,426		
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	185,449	7.6	999,266	964,154	-3.5
June	149,135			1,148,401		
July	152,947			1,301,348		
August	150,921			1,452,269		
September	150,709			1,602,978		
October	161,980			1,764,958		
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	205,337	30.6	892,379	980,545	9.9
June	154,033			1,046,412		
July	166,138			1,212,550		
August	147,194			1,359,744		
September	126,249			1,485,993		
October	141,255			1,627,248		
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			304,623		
July	61,369			365,992		
August	69,232			435,224		
September	81,084			516,308		
October	63,309			579,617		
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			487,618		
July	82,616			570,234		
August	78,720			648,954		
September	76,954			725,908		
October	75,148			801,056		
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	94,576	4.0	443,363	458,380	3.4
June	102,804			546,167		
July	99,916			646,083		
August	95,837			741,920		
September	93,454			835,374		
October	86,843			922,217		
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	42,261	8.2	193,346	205,018	6.0
June	40,189			233,535		
July	39,655			273,190		
August	40,061			313,251		
September	40,988			354,239		
October	40,971			395,210		
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	28,268	-8.9	148,633	140,963	-5.2
June	29,649			178,282		
July	31,016			209,298		
August	30,517			239,815		
September	33,831			273,646		
October	32,294			305,940		
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	24,195	-2.0	130,528	126,786	-2.9
June	24,951			155,479		
July	27,393			182,872		
August	25,885			208,757		
September	26,719			235,476		
October	27,540			263,016		
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	120,533	-11.3	586,909	602,180	2.6
June	121,733			708,642		
July	112,681			821,323		
August	117,149			938,472		
September	120,885			1,059,357		
October	138,408			1,197,765		
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	61,211	-5.2	302,144	311,814	3.2
June	72,777			374,921		
July	73,592			448,513		
August	70,473			518,986		
September	68,194			587,180		
October	63,264			650,444		
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	44,926	-0.5	198,900	194,833	-2.0
June	47,269			246,169		
July	45,547			291,716		
August	45,371			337,087		
September	41,756			378,843		
October	38,173			417,016		
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	2,336	0.3	12,700	12,963	2.1
June	3,246			15,946		
July	3,210			19,156		
August	3,416			22,572		
September	2,962			25,534		
October	2,882			28,416		
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	388,720	4.2	1,909,365	2,012,156	5.4
June	398,683			2,308,048		
July	365,149			2,673,197		
August	382,228			3,055,425		
September	391,449			3,446,874		
October	386,630			3,833,504		
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	2,270	-13.5	14,836	15,759	6.2
June	3,440			18,276		
July	3,564			21,840		
August	3,231			25,071		
September	3,156			28,227		
October	2,483			30,710		
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:
May 2020 and 2021**

State and region	May 2020	April 2021	May 2021	Change from	
				May 2020	April 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	211,358	207,373	207,301	-1.9	-
Idaho	80,641	86,973	79,484	-1.4	-8.6
Illinois	4,558	5,008	5,024	10.2	0.3
Iowa	28,265	29,355	29,696	5.1	1.2
Minnesota	61,558	62,899	64,317	4.5	2.3
New Jersey	5,191	4,248	4,303	-17.1	1.3
New Mexico	80,476	79,462	82,497	2.5	3.8
New York	70,882	67,044	73,531	3.7	9.7
Ohio	20,190	20,784	19,644	-2.7	-5.5
Oregon	19,138	19,837	20,118	5.1	1.4
Pennsylvania	34,962	39,664	37,748	8.0	-4.8
South Dakota	37,654	40,628	39,125	3.9	-3.7
Vermont	11,988	12,896	11,962	-0.2	-7.2
Wisconsin	281,193	282,594	295,563	5.1	4.6
Other States ¹	153,157	177,135	185,875	21.4	4.9
United States	1,101,211	1,135,900	1,156,188	5.0	1.8
Atlantic	134,507	135,672	139,529	3.7	2.8
Central	508,119	536,531	554,916	9.2	3.4
West	458,585	463,697	461,743	0.7	-0.4

- 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: May 2020 and 2021

State and region	May 2020	April 2021	May 2021	Change from	
				May 2020	April 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	49,077	51,685	50,469	2.8	-2.4
Idaho	48,580	52,873	53,503	10.1	1.2
Iowa	16,810	16,149	15,836	-5.8	-1.9
Minnesota	51,557	50,819	52,869	2.5	4.0
New York	12,712	12,599	12,823	0.9	1.8
Oregon	19,011	19,708	19,985	5.1	1.4
Wisconsin	88,434	91,888	93,201	5.4	1.4
Other States ¹	154,967	176,703	174,437	12.6	-1.3
United States	441,148	472,424	473,123	7.2	0.1
Atlantic	28,595	28,786	28,731	0.5	-0.2
Central	219,716	246,220	249,262	13.4	1.2
West	192,837	197,418	195,130	1.2	-1.2

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

Cheddar Cheese Production – States, United States, and Regions: May 2020 and 2021

State and region	May 2020	April 2021	May 2021	Change from	
				May 2020	April 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	23,751	26,047	26,748	12.6	2.7
Iowa	8,773	8,429	8,850	0.9	5.0
Minnesota	50,286	49,389	51,193	1.8	3.7
Oregon	16,292	16,688	18,573	14.0	11.3
Vermont	8,600	8,699	8,387	-2.5	-3.6
Wisconsin	62,331	62,345	62,901	0.9	0.9
Other States ¹	145,671	162,482	166,372	14.2	2.4
United States	315,704	334,079	343,024	8.7	2.7
Atlantic	26,890	27,715	26,764	-0.5	-3.4
Central	155,812	173,146	180,546	15.9	4.3
West	133,002	133,218	135,714	2.0	1.9

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

Total Italian Cheese Production – States, United States, and Regions: May 2020 and 2021

State and region	May 2020	April 2021	May 2021	Change from	
				May 2020	April 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	142,023	135,047	134,984	-5.0	-
Idaho	26,046	29,062	21,703	-16.7	-25.3
Minnesota	9,807	11,750	11,199	14.2	-4.7
New Jersey	2,644	1,939	2,103	-20.5	8.5
New York	30,717	29,707	29,621	-3.6	-0.3
Pennsylvania	23,194	23,062	23,325	0.6	1.1
Wisconsin	141,114	138,539	140,552	-0.4	1.5
Other States ¹	106,778	112,882	117,829	10.3	4.4
United States	482,323	481,988	481,316	-0.2	-0.1
Atlantic	61,299	59,834	59,876	-2.3	0.1
Central	198,339	199,979	202,269	2.0	1.1
West	222,685	222,175	219,171	-1.6	-1.4

- Represents zero.

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

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

State and region	May 2020	April 2021	May 2021	Change from	
				May 2020	April 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	131,114	124,826	124,998	-4.7	0.1
Idaho	25,674	28,475	21,010	-18.2	-26.2
New York	15,995	15,339	16,170	1.1	5.4
Pennsylvania	18,522	18,786	18,756	1.3	-0.2
Wisconsin	94,338	89,133	92,600	-1.8	3.9
Other States ¹	93,803	100,250	103,165	10.0	2.9
United States	379,446	376,809	376,699	-0.7	-
Atlantic	38,162	37,712	38,464	0.8	2.0
Central	132,193	128,416	132,001	-0.1	2.8
West	209,091	210,681	206,234	-1.4	-2.1

- 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: May 2020 and 2021

State and region	May 2020	April 2021	May 2021	Change from	
				May 2020	April 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	54,549	59,185	61,211	12.2	3.4
New York	2,041	1,576	1,319	-35.4	-16.3
Pennsylvania	8,120	7,579	7,391	-9.0	-2.5
Other States ¹	107,633	115,511	115,528	7.3	-
United States	172,343	183,851	185,449	7.6	0.9
Atlantic	16,732	16,143	15,321	-8.4	-5.1
Central	63,258	70,011	70,391	11.3	0.5
West	92,353	97,697	99,737	8.0	2.1

- Represents zero.

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

Nonfat Dry Milk (Human) Production – States, United States, and Regions: May 2020 and 2021

State and region	May 2020	April 2021	May 2021	Change from	
				May 2020	April 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	58,573	91,076	91,812	56.7	0.8
Pennsylvania	16,434	16,826	16,853	2.5	0.2
Other States ¹	82,229	86,360	96,672	17.6	11.9
United States	157,236	194,262	205,337	30.6	5.7
Atlantic	29,251	30,659	32,487	11.1	6.0
Central	34,062	38,970	40,089	17.7	2.9
West	93,923	124,633	132,761	41.4	6.5

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

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

State and region	May 2020	April 2021	May 2021	Change from	
				May 2020	April 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
New York	12,132	9,040	12,609	3.9	39.5
Wisconsin	25,099	23,879	23,431	-6.6	-1.9
Other States ¹	45,508	40,417	40,361	-11.3	-0.1
United States	82,739	73,336	76,401	-7.7	4.2
Atlantic	22,628	19,715	23,665	4.6	20.0
Central	41,693	35,023	34,163	-18.1	-2.5
West	18,418	18,598	18,573	0.8	-0.1

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: May 2020 and 2021

State and region	May 2020	April 2021	May 2021	Change from	
				May 2020	April 2021
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
California	6,732	7,886	7,094	5.4	-10.0
Connecticut	1,172	1,218	1,405	19.9	15.4
Missouri	2,704	2,694	2,667	-1.4	-1.0
New York	2,352	2,167	2,458	4.5	13.4
Ohio	2,775	2,612	2,620	-5.6	0.3
Oregon	1,084	1,022	947	-12.6	-7.3
Pennsylvania	3,309	2,857	2,109	-36.3	-26.2
Tennessee	970	2,294	818	-15.7	-64.3
Utah	1,915	1,574	1,428	-25.4	-9.3
Wisconsin	543	649	783	44.2	20.6
Other States ¹	41,042	42,982	38,882	-5.3	-9.5
United States	64,598	67,955	61,211	-5.2	-9.9
Atlantic	14,352	14,993	13,952	-2.8	-6.9
Central	38,348	40,566	36,201	-5.6	-10.8
West	11,898	12,396	11,058	-7.1	-10.8

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.

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
Logan Hartley-Sanguinett – Sheep and Goats	(202) 690-3236
Mike Miller – Milk Production and Milk Cows	(202) 720-3278
Suzanne Richards – Dairy Products	(202) 720-4448

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- Cornell’s Mann Library has launched a new website housing NASS’s and other agency’s archived reports. The new website, <https://usda.library.cornell.edu>. All email subscriptions containing reports will be sent from the new website, <https://usda.library.cornell.edu>. To continue receiving the reports via e-mail, you will have to go to the new website, create a new account and re-subscribe to the reports. If you need instructions to set up an account or subscribe, they are located at: <https://usda.library.cornell.edu/help>. You should whitelist notifications@usda-esmis.library.cornell.edu in your email client to avoid the emails going into spam/junk folders.

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

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