



Released May 4, 2021, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

March 2021 Highlights

Total cheese output (excluding cottage cheese) was 1.18 billion pounds, 4.8 percent above March 2020 and 12.6 percent above February 2021.

Italian type cheese production totaled 503 million pounds, 3.6 percent above March 2020 and 13.5 percent above February 2021.

American type cheese production totaled 479 million pounds, 7.3 percent above March 2020 and 12.4 percent above February 2021.

Butter production was 199 million pounds, 0.6 percent below March 2020 but 6.8 percent above February 2021.

Dry milk products (comparisons in percentage with March 2020)

Nonfat dry milk, human - 198 million pounds, up 14.1 percent.

Skim milk powder - 38.3 million pounds, down 31.4 percent.

Whey products (comparisons in percentage with March 2020)

Dry whey, total - 84.3 million pounds, up 0.9 percent.

Lactose, human and animal - 101 million pounds, up 6.8 percent.

Whey protein concentrate, total - 46.0 million pounds, up 14.7 percent.

Frozen products (comparisons in percentage with March 2020)

Ice cream, regular (hard) - 69.1 million gallons, up 7.5 percent.

Ice cream, lowfat (total) - 43.1 million gallons, up 0.6 percent.

Sherbet (hard) - 2.56 million gallons, down 5.8 percent.

Frozen yogurt (total) - 3.18 million gallons, down 11.9 percent.

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

Product	March 2020	February 2021	March 2021	Change from	
				March 2020	February 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Butter	200,040	186,304	198,935	-0.6	6.8
Cheese					
American types ¹	446,423	426,094	478,874	7.3	12.4
Cheddar	314,114	300,535	338,735	7.8	12.7
Other American types	132,309	125,559	140,139	5.9	11.6
Blue and Gorgonzola	7,230	6,795	7,820	8.2	15.1
Brick and Muenster	16,684	14,628	16,199	-2.9	10.7
Cream and Neufchatel	76,471	72,787	80,720	5.6	10.9
Feta	12,930	12,097	13,008	0.6	7.5
Gouda	4,242	5,210	5,131	21.0	-1.5
Hispanic	31,839	28,250	32,127	0.9	13.7
Italian types	485,546	443,254	502,901	3.6	13.5
Mozzarella	386,397	345,504	394,193	2.0	14.1
Parmesan	34,337	37,301	40,332	17.5	8.1
Provolone	29,698	28,052	31,045	4.5	10.7
Ricotta	23,777	21,646	25,143	5.7	16.2
Romano	4,598	4,571	5,129	11.5	12.2
Other Italian types	6,739	6,180	7,059	4.7	14.2
Swiss	27,396	22,988	25,901	-5.5	12.7
All other types	12,685	11,402	12,688	-	11.3
Total cheese ²	1,121,446	1,043,505	1,175,369	4.8	12.6
Cottage cheese, curd ³	33,225	29,790	33,663	1.3	13.0
Cottage cheese, cream ⁴	31,391	27,470	30,370	-3.3	10.6
Cottage cheese, lowfat ⁵	27,979	24,271	28,176	0.7	16.1
Sour cream	115,545	113,749	128,429	11.2	12.9
Yogurt, plain and flavored	438,213	381,121	439,586	0.3	15.3
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
Frozen products					
Ice cream, regular, hard	64,287	55,630	69,090	7.5	24.2
Ice cream, lowfat, hard	23,216	19,725	24,361	4.9	23.5
Ice cream, lowfat, soft	19,651	13,782	18,746	-4.6	36.0
Ice cream, lowfat, total ⁶	42,867	33,507	43,107	0.6	28.7
Ice cream, nonfat, hard	618	419	669	8.3	59.7
Sherbet, hard	2,721	2,605	2,562	-5.8	-1.7
Frozen yogurt, total	3,602	4,101	3,175	-11.9	-22.6
Regular and lowfat, hard	1,515	938	1,080	-28.7	15.1
Nonfat, hard	249	306	257	3.2	-16.0
Other frozen dairy products	1,110	776	907	-18.3	16.9
Water and juice ices	6,069	5,273	6,609	8.9	25.3
Mix for frozen products					
Ice cream, regular, mix	38,792	35,772	43,021	10.9	20.3
Ice cream, lowfat, mix ⁷	20,983	18,634	24,047	14.6	29.0
Ice cream, nonfat, mix	466	400	450	-3.4	12.5
Sherbet mix	1,890	1,998	2,012	6.5	0.7
Yogurt mix	2,081	1,636	1,898	-8.8	16.0

- 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:
March 2020 and 2021**

Product	March 2020	February 2021	March 2021	Change from	
				March 2020	February 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Condensed whey, solids content ¹					
Sweet-type, human	9,433	5,628	7,498	-20.5	33.2
Dry whey products					
Dry whey, human	82,082	74,245	82,896	1.0	11.7
Dry whey, animal	1,400	1,078	1,357	-3.1	25.9
Dry whey, total	83,482	75,323	84,253	0.9	11.9
Reduced lactose and minerals					
Human	2,344	1,680	2,891	23.3	72.1
Animal	3,411	2,787	3,913	14.7	40.4
Whey protein concentrate					
Human ²	38,927	37,065	45,468	16.8	22.7
Animal ²	1,167	447	528	-54.8	18.1
Total ²	40,094	37,512	45,996	14.7	22.6
25.0-49.9 percent ³	15,942	13,908	15,651	-1.8	12.5
50.0-89.9 percent ³	24,152	23,604	30,345	25.6	28.6
Whey protein isolates ⁴	10,276	9,877	13,323	29.7	34.9
Lactose, human and animal	94,831	79,123	101,240	6.8	28.0
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	73,833	69,114	63,272	-14.3	-8.5
Dry whey, animal	711	812	863	21.4	6.3
Dry whey, total	74,544	69,926	64,135	-14.0	-8.3
Reduced Lactose and minerals					
Human and animal ⁶	4,989	6,378	6,077	21.8	-4.7
Whey protein concentrate					
Human ²	64,445	65,132	63,261	-1.8	-2.9
Animal ²	860	1,739	1,490	73.3	-14.3
Total ²	65,305	66,871	64,751	-0.8	-3.2
25.0-49.9 percent ³	26,814	26,591	25,006	-6.7	-6.0
50.0-89.9 percent ³	38,491	40,280	39,745	3.3	-1.3
Whey protein isolates ⁴	15,233	14,584	14,458	-5.1	-0.9
Lactose, human and animal	100,557	132,062	125,525	24.8	-4.9
	(cents per pound)	(cents per pound)	(cents per pound)	(cents change)	(cents change)
Manufacturers' selling price ⁷					
Dry whey, animal	21.9	34.6	36.3	14.3	1.7

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

² Whey protein concentrate, 25.0 to 89.9 percent.

³ Whey protein concentrate, human and animal.

⁴ Whey protein isolate, 90.0 percent or greater.

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

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

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

**Condensed and Dry Milk Products Production, Stocks, and Shipments – United States:
March 2020 and 2021**

Product	March 2020	February 2021	March 2021	Change from	
				March 2020	February 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Production					
Bulk condensed milk					
Skim, unsweetened	129,111	99,645	112,115	-13.2	12.5
Dry milk products					
Dry buttermilk, total	13,457	11,837	12,658	-5.9	6.9
Dry skim milk, animal	920	580	615	-33.2	6.0
Dry whole milk	11,056	11,072	14,599	32.0	31.9
Milk protein concentrate, total ¹	14,594	18,367	16,582	13.6	-9.7
Nonfat dry milk, human	173,665	183,614	198,227	14.1	8.0
Skim milk powder, total ²	55,841	31,639	38,301	-31.4	21.1
Manufacturers' stocks end-of-month ³					
Dry milk products					
Dry buttermilk, total	24,943	23,922	23,258	-6.8	-2.8
Dry skim milk, animal	11,311	9,952	10,329	-8.7	3.8
Dry whole milk	13,462	16,657	15,383	14.3	-7.6
Nonfat dry milk, human	351,368	343,749	316,973	-9.8	-7.8
Manufacturers' shipments ⁴					
Dry milk products					
Nonfat dry milk, human	131,133	137,307	217,319	65.7	58.3

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	1,175,369	4.8	3,279,121	3,354,441	2.3
April	1,051,959			4,331,080		
May	1,101,211			5,432,291		
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	478,874	7.3	1,302,785	1,379,283	5.9
April	446,525			1,749,310		
May	441,148			2,190,458		
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	338,735	7.8	934,117	986,219	5.6
April	330,119			1,264,236		
May	315,704			1,579,940		
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	502,901	3.6	1,420,003	1,427,184	0.5
April	447,648			1,867,651		
May	482,323			2,349,974		
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	394,193	2.0	1,123,862	1,114,645	-0.8
April	353,043			1,476,905		
May	379,446			1,856,351		
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	7,059	4.7	19,549	19,523	-0.1
April	5,152			24,701		
May	6,572			31,273		
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	198,935	-0.6	599,723	594,869	-0.8
April	227,200			826,923		
May	172,343			999,266		
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	198,227	14.1	532,511	579,866	8.9
April	202,632			735,143		
May	157,236			892,379		
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	38,301	-31.4	135,824	105,932	-22.0
April	51,611			187,435		
May	56,669			244,104		
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	84,253	0.9	245,972	243,564	-1.0
April	75,824			321,796		
May	84,109			405,905		
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	101,240	6.8	263,761	274,161	3.9
April	88,674			352,435		
May	90,928			443,363		
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	45,996	14.7	116,931	127,308	8.9
April	37,341			154,272		
May	39,074			193,346		
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	30,370	-3.3	86,071	84,462	-1.9
April	31,530			117,601		
May	31,032			148,633		
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	28,176	0.7	79,087	76,875	-2.8
April	26,753			105,840		
May	24,688			130,528		
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	128,429	11.2	340,022	357,426	5.1
April	110,956			450,978		
May	135,931			586,909		
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	69,090	7.5	174,107	181,710	4.4
April	63,439			237,546		
May	64,598			302,144		
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	43,107	0.6	114,399	107,351	-6.2
April	39,368			153,767		
May	45,133			198,900		
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	2,562	-5.8	7,947	7,833	-1.4
April	2,425			10,372		
May	2,328			12,700		
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	439,586	0.3	1,174,418	1,206,301	2.7
April	361,848			1,536,266		
May	373,099			1,909,365		
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	3,175	-11.9	9,643	11,080	14.9
April	2,570			12,213		
May	2,623			14,836		
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		

¹ Excludes Cottage Cheese.

² Includes Cheddar, Colby, washed curd, stirred curd, Monterey, and Jack.

³ Includes protein standardized and blends.

⁴ Excludes all modified dry whey products.

**Total Cheese Production Excluding Cottage Cheese – States, United States, and Regions:
March 2020 and 2021**

State and region	March 2020	February 2021	March 2021	Change from	
				March 2020	February 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	210,604	193,766	210,744	0.1	8.8
Idaho	89,276	72,985	90,172	1.0	23.5
Illinois	6,474	4,798	5,575	-13.9	16.2
Iowa	28,935	26,652	27,999	-3.2	5.1
Minnesota	62,961	59,159	65,639	4.3	11.0
New Jersey	5,107	4,021	4,884	-4.4	21.5
New Mexico	80,902	72,422	82,478	1.9	13.9
New York	75,306	68,110	77,131	2.4	13.2
Ohio	21,184	18,857	20,916	-1.3	10.9
Oregon	19,426	16,763	20,367	4.8	21.5
Pennsylvania	37,346	34,059	40,755	9.1	19.7
South Dakota	38,296	43,156	44,410	16.0	2.9
Vermont	12,093	11,617	12,183	0.7	4.9
Wisconsin	289,239	264,362	300,563	3.9	13.7
Other States ¹	144,297	152,778	171,553	18.9	12.3
United States	1,121,446	1,043,505	1,175,369	4.8	12.6
Atlantic	139,928	128,322	145,224	3.8	13.2
Central	517,208	496,613	557,464	7.8	12.3
West	464,310	418,570	472,681	1.8	12.9

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

American Cheese Production – States, United States, and Regions: March 2020 and 2021

State and region	March 2020	February 2021	March 2021	Change from	
				March 2020	February 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	47,746	46,688	51,291	7.4	9.9
Idaho	51,781	45,842	51,600	-0.3	12.6
Iowa	17,303	15,929	16,755	-3.2	5.2
Minnesota	53,771	48,497	53,114	-1.2	9.5
New York	12,432	11,870	12,664	1.9	6.7
Oregon	19,297	16,668	20,235	4.9	21.4
Wisconsin	87,838	86,176	95,000	8.2	10.2
Other States ¹	156,255	154,424	178,215	14.1	15.4
United States	446,423	426,094	478,874	7.3	12.4
Atlantic	28,604	27,384	28,949	1.2	5.7
Central	223,389	225,445	252,937	13.2	12.2
West	194,430	173,265	196,988	1.3	13.7

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: March 2020 and 2021

State and region	March 2020	February 2021	March 2021	Change from	
				March 2020	February 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	21,489	23,044	25,633	19.3	11.2
Iowa	8,278	8,827	9,298	12.3	5.3
Minnesota	52,038	46,607	52,066	0.1	11.7
Oregon	16,000	14,427	16,765	4.8	16.2
Vermont	8,718	8,682	8,754	0.4	0.8
Wisconsin	61,863	59,441	65,400	5.7	10.0
Other States ¹	145,728	139,507	160,819	10.4	15.3
United States	314,114	300,535	338,735	7.8	12.7
Atlantic	27,138	26,721	27,480	1.3	2.8
Central	155,230	155,817	176,250	13.5	13.1
West	131,746	117,997	135,005	2.5	14.4

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

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

State and region	March 2020	February 2021	March 2021	Change from	
				March 2020	February 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	140,691	126,430	136,748	-2.8	8.2
Idaho	32,725	23,244	33,597	2.7	44.5
Minnesota	8,908	10,447	12,272	37.8	17.5
New Jersey	2,983	1,863	2,760	-7.5	48.1
New York	32,356	28,800	33,916	4.8	17.8
Pennsylvania	21,611	22,094	23,346	8.0	5.7
Wisconsin	144,671	126,443	146,826	1.5	16.1
Other States ¹	101,601	103,933	113,436	11.6	9.1
United States	485,546	443,254	502,901	3.6	13.5
Atlantic	60,397	56,943	63,617	5.3	11.7
Central	198,781	184,718	210,099	5.7	13.7
West	226,368	201,593	229,185	1.2	13.7

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: March 2020 and 2021

State and region	March 2020	February 2021	March 2021	Change from	
				March 2020	February 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	131,798	114,861	126,342	-4.1	10.0
Idaho	32,055	22,629	32,736	2.1	44.7
New York	16,933	14,523	16,560	-2.2	14.0
Pennsylvania	18,575	18,497	18,899	1.7	2.2
Wisconsin	95,068	82,293	98,500	3.6	19.7
Other States ¹	91,968	92,701	101,156	10.0	9.1
United States	386,397	345,504	394,193	2.0	14.1
Atlantic	38,296	36,621	38,198	-0.3	4.3
Central	132,528	120,357	139,272	5.1	15.7
West	215,573	188,526	216,723	0.5	15.0

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

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

State and region	March 2020	February 2021	March 2021	Change from	
				March 2020	February 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	61,009	57,003	62,606	2.6	9.8
New York	2,655	1,892	1,855	-30.1	-2.0
Pennsylvania	9,458	7,912	8,478	-10.4	7.2
Other States ¹	126,918	119,497	125,996	-0.7	5.4
United States	200,040	186,304	198,935	-0.6	6.8
Atlantic	21,739	17,438	18,624	-14.3	6.8
Central	76,979	75,166	76,459	-0.7	1.7
West	101,322	93,700	103,852	2.5	10.8

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

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

State and region	March 2020	February 2021	March 2021	Change from	
				March 2020	February 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	72,754	88,098	92,352	26.9	4.8
Pennsylvania	15,296	12,185	15,537	1.6	27.5
Other States ¹	85,615	83,331	90,338	5.5	8.4
United States	173,665	183,614	198,227	14.1	8.0
Atlantic	27,321	25,197	30,315	11.0	20.3
Central	36,096	33,059	37,869	4.9	14.5
West	110,248	125,358	130,043	18.0	3.7

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

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

State and region	March 2020	February 2021	March 2021	Change from	
				March 2020	February 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
New York	11,767	10,852	11,826	0.5	9.0
Wisconsin	25,703	25,992	33,198	29.2	27.7
Other States ¹	44,612	37,401	37,872	-15.1	1.3
United States	82,082	74,245	82,896	1.0	11.7
Atlantic	21,543	21,229	22,557	4.7	6.3
Central	39,682	35,507	43,573	9.8	22.7
West	20,857	17,509	16,766	-19.6	-4.2

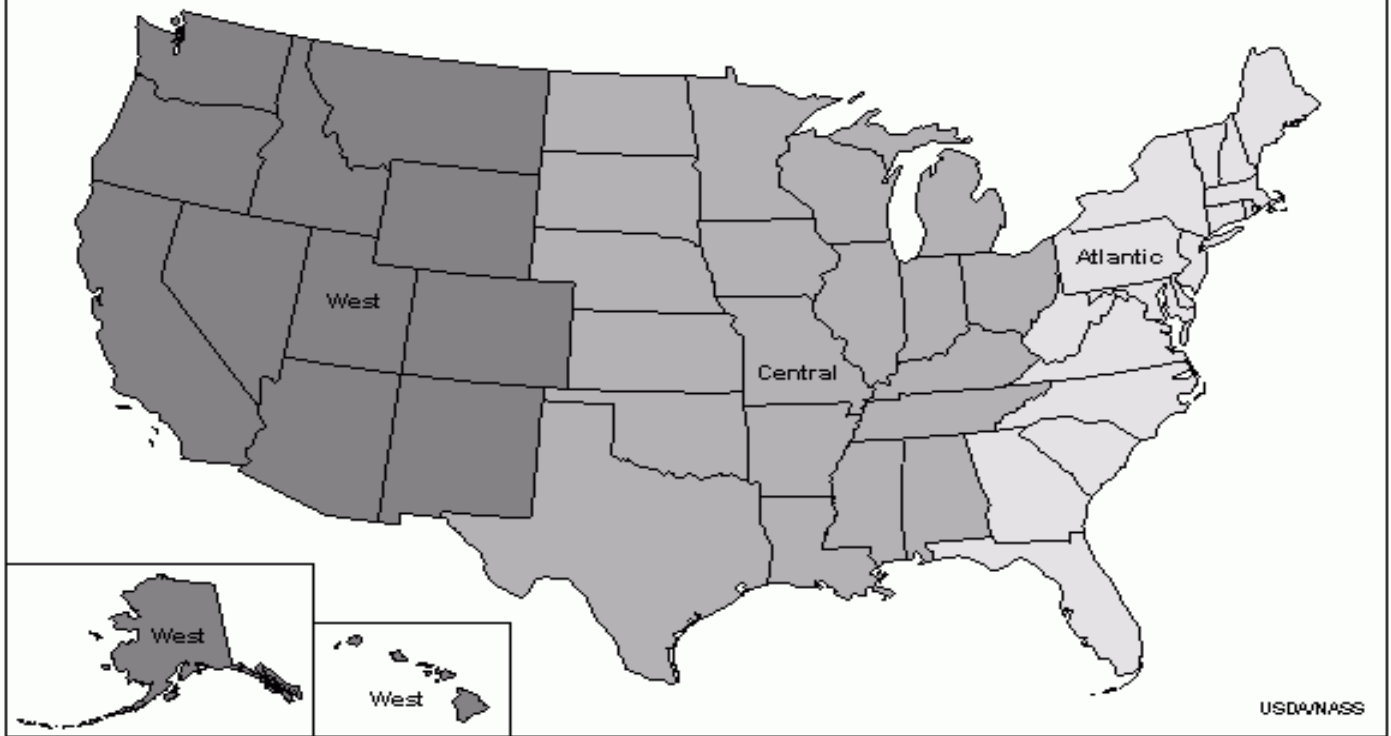
¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Ice Cream, Regular (Hard) Production – States, United States, and Regions: March 2020 and 2021

State and region	March 2020	February 2021	March 2021	Change from	
				March 2020	February 2021
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
California	6,067	5,974	7,443	22.7	24.6
Connecticut	1,299	1,147	1,325	2.0	15.5
Missouri	3,180	2,913	3,199	0.6	9.8
New York	2,057	1,760	2,214	7.6	25.8
Ohio	2,108	2,358	2,876	36.4	22.0
Oregon	1,039	1,033	1,053	1.3	1.9
Pennsylvania	3,450	2,183	2,945	-14.6	34.9
Tennessee	2,067	2,010	2,036	-1.5	1.3
Utah	2,211	1,729	2,002	-9.5	15.8
Wisconsin	607	505	545	-10.2	7.9
Other States ¹	40,202	34,018	43,452	8.1	27.7
United States	64,287	55,630	69,090	7.5	24.2
Atlantic	14,116	11,989	14,318	1.4	19.4
Central	38,852	33,096	41,960	8.0	26.8
West	11,319	10,545	12,812	13.2	21.5

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

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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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