



# Dairy Products

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## September 2021 Highlights

**Total cheese** output (excluding cottage cheese) was 1.14 billion pounds, 3.3 percent above September 2020 but 0.5 percent below August 2021.

**Italian type cheese** production totaled 486 million pounds, 3.5 percent above September 2020 and 0.2 percent above August 2021.

**American type cheese** production totaled 454 million pounds, 5.1 percent above September 2020 but 0.9 percent below August 2021.

**Butter** production was 143 million pounds, 4.9 percent below September 2020 and 3.1 percent below August 2021.

### **Dry milk products** (comparisons in percentage with September 2020)

Nonfat dry milk, human - 122 million pounds, down 3.1 percent.

Skim milk powder - 62.8 million pounds, down 22.5 percent.

### **Whey products** (comparisons in percentage with September 2020)

Dry whey, total - 75.7 million pounds, down 1.6 percent.

Lactose, human and animal - 101 million pounds, up 7.8 percent.

Whey protein concentrate, total - 44.1 million pounds, up 7.6 percent.

### **Frozen products** (comparisons in percentage with September 2020)

Ice cream, regular (hard) - 57.8 million gallons, down 15.3 percent.

Ice cream, lowfat (total) - 36.5 million gallons, down 12.6 percent.

Sherbet (hard) - 2.31 million gallons, down 22.2 percent.

Frozen yogurt (total) - 2.87 million gallons, down 9.0 percent.

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

Product	September 2020	August 2021	September 2021	Change from	
				September 2020	August 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Butter .....	150,709	147,982	143,396	-4.9	-3.1
<b>Cheese</b>					
American types <sup>1</sup> .....	432,114	458,518	454,175	5.1	-0.9
Cheddar .....	303,253	319,498	313,040	3.2	-2.0
Other American types .....	128,861	139,020	141,135	9.5	1.5
Blue and Gorgonzola .....	6,677	7,332	7,548	13.0	2.9
Brick and Muenster .....	16,252	14,297	14,733	-9.3	3.0
Cream and Neufchatel .....	92,527	94,108	91,005	-1.6	-3.3
Feta .....	13,477	14,305	14,367	6.6	0.4
Gouda .....	2,838	4,404	4,216	48.6	-4.3
Hispanic .....	29,938	28,401	30,168	0.8	6.2
Italian types .....	469,823	485,061	486,202	3.5	0.2
Mozzarella .....	371,610	379,576	379,321	2.1	-0.1
Parmesan .....	34,035	37,337	38,058	11.8	1.9
Provolone .....	31,047	34,064	33,102	6.6	-2.8
Ricotta .....	22,286	21,268	22,551	1.2	6.0
Romano .....	3,976	5,143	5,502	38.4	7.0
Other Italian types .....	6,869	7,673	7,668	11.6	-0.1
Swiss .....	27,438	27,175	25,559	-6.8	-5.9
All other types .....	13,151	13,145	13,226	0.6	0.6
<b>Total cheese</b> <sup>2</sup> .....	<b>1,104,235</b>	<b>1,146,746</b>	<b>1,141,199</b>	<b>3.3</b>	<b>-0.5</b>
Cottage cheese, curd <sup>3</sup> .....	34,376	31,055	30,208	-12.1	-2.7
Cottage cheese, cream <sup>4</sup> .....	33,831	29,433	29,044	-14.1	-1.3
Cottage cheese, lowfat <sup>5</sup> .....	26,719	25,972	25,739	-3.7	-0.9
Sour cream .....	120,885	123,136	114,894	-5.0	-6.7
Yogurt, plain and flavored .....	391,449	402,655	401,315	2.5	-0.3
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
<b>Frozen products</b>					
Ice cream, regular, hard .....	68,194	63,596	57,769	-15.3	-9.2
Ice cream, lowfat, hard .....	22,589	20,992	18,516	-18.0	-11.8
Ice cream, lowfat, soft .....	19,167	21,001	17,969	-6.3	-14.4
Ice cream, lowfat, total <sup>6</sup> .....	41,756	41,993	36,485	-12.6	-13.1
Ice cream, nonfat, hard .....	425	526	473	11.3	-10.1
Sherbet, hard .....	2,962	2,372	2,305	-22.2	-2.8
Frozen yogurt, total .....	3,156	2,869	2,873	-9.0	0.1
Regular and lowfat, hard .....	1,275	991	1,105	-13.3	11.5
Nonfat, hard .....	305	336	192	-37.0	-42.9
Other frozen dairy products .....	1,367	1,132	959	-29.8	-15.3
Water and juice ices .....	5,717	6,174	5,248	-8.2	-15.0
<b>Mix for frozen products</b>					
Ice cream, regular, mix .....	42,623	41,259	37,326	-12.4	-9.5
Ice cream, lowfat, mix <sup>7</sup> .....	21,705	23,624	20,505	-5.5	-13.2
Ice cream, nonfat, mix .....	358	422	382	6.7	-9.5
Sherbet mix .....	2,077	1,899	1,788	-13.9	-5.8
Yogurt mix .....	1,680	1,867	1,463	-12.9	-21.6

<sup>1</sup> Includes Cheddar, Colby, washed curd, stirred curd, Monterey, and Jack.

<sup>2</sup> Excludes Cottage Cheese.

<sup>3</sup> Mostly used for processing into cream or lowfat cottage cheese.

<sup>4</sup> Fat content 4 percent or more.

<sup>5</sup> Fat content less than 4 percent.

<sup>6</sup> Includes freezer-made milkshake.

<sup>7</sup> Includes milkshake mix.

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

Product	September 2020	August 2021	September 2021	Change from	
				September 2020	August 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Condensed whey, solids content <sup>1</sup>					
Sweet-type, human .....	8,785	6,760	6,432	-26.8	-4.9
Dry whey products					
Dry whey, human .....	75,610	75,419	74,302	-1.7	-1.5
Dry whey, animal .....	1,344	1,278	1,398	4.0	9.4
Dry whey, total .....	76,954	76,697	75,700	-1.6	-1.3
Reduced lactose and minerals					
Human .....	1,809	1,507	1,540	-14.9	2.2
Animal .....	2,809	2,804	2,808	-	0.1
Whey protein concentrate					
Human <sup>2</sup> .....	40,511	37,272	43,363	7.0	16.3
Animal <sup>2</sup> .....	477	1,293	736	54.3	-43.1
Total <sup>2</sup> .....	40,988	38,565	44,099	7.6	14.3
25.0-49.9 percent <sup>3</sup> .....	14,722	12,216	16,410	11.5	34.3
50.0-89.9 percent <sup>3</sup> .....	26,266	26,349	27,689	5.4	5.1
Whey protein isolates <sup>4</sup> .....	8,946	10,810	10,267	14.8	-5.0
Lactose, human and animal .....	93,454	92,290	100,733	7.8	9.1
<b>Manufacturers' stocks end of month <sup>5</sup></b>					
Dry whey products					
Dry whey, human .....	78,871	66,590	61,085	-22.6	-8.3
Dry whey, animal .....	1,068	1,587	3,132	193.3	97.4
Dry whey, total .....	79,939	68,177	64,217	-19.7	-5.8
Reduced Lactose and minerals					
Human and animal <sup>6</sup> .....	6,337	6,963	7,021	10.8	0.8
Whey protein concentrate					
Human <sup>2</sup> .....	63,965	61,493	61,276	-4.2	-0.4
Animal <sup>2</sup> .....	734	1,562	782	6.5	-49.9
Total <sup>2</sup> .....	64,699	63,055	62,058	-4.1	-1.6
25.0-49.9 percent <sup>3</sup> .....	24,013	23,094	23,504	-2.1	1.8
50.0-89.9 percent <sup>3</sup> .....	40,686	39,961	38,554	-5.2	-3.5
Whey protein isolates <sup>4</sup> .....	15,241	11,250	11,058	-27.4	-1.7
Lactose, human and animal .....	105,022	138,250	144,125	37.2	4.2
	(cents per pound)	(cents per pound)	(cents per pound)	(cents change)	(cents change)
<b>Manufacturers' selling price <sup>7</sup></b>					
Dry whey, animal .....	18.4	31.1	25.7	7.3	-5.5

- Represents zero.

<sup>1</sup> 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.

<sup>2</sup> Whey protein concentrate, 25.0 to 89.9 percent.

<sup>3</sup> Whey protein concentrate, human and animal.

<sup>4</sup> Whey protein isolate, 90.0 percent or greater.

<sup>5</sup> Stocks held by manufacturers at all points and in transit.

<sup>6</sup> Reduced lactose and minerals stocks combined to avoid disclosure of individual operations.

<sup>7</sup> 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:  
September 2020 and 2021**

Product	September 2020	August 2021	September 2021	Change from	
				September 2020	August 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
<b>Production</b>					
Bulk condensed milk					
Skim, unsweetened .....	100,407	101,738	95,750	-4.6	-5.9
Dry milk products					
Dry buttermilk, total .....	7,838	7,694	10,490	33.8	36.3
Dry skim milk, animal .....	781	741	770	-1.4	3.9
Dry whole milk .....	10,391	11,017	9,963	-4.1	-9.6
Milk protein concentrate, total <sup>1</sup> .....	12,258	11,770	12,730	3.9	8.2
Nonfat dry milk, human .....	126,249	121,978	122,377	-3.1	0.3
Skim milk powder, total <sup>2</sup> .....	81,084	61,493	62,813	-22.5	2.1
<b>Manufacturers' stocks end-of-month <sup>3</sup></b>					
Dry milk products					
Dry buttermilk, total .....	19,602	18,902	18,770	-4.2	-0.7
Dry skim milk, animal .....	9,263	9,423	9,151	-1.2	-2.9
Dry whole milk .....	12,616	20,633	19,884	57.6	-3.6
Nonfat dry milk, human .....	238,853	284,701	244,072	2.2	-14.3
<b>Manufacturers' shipments <sup>4</sup></b>					
Dry milk products					
Nonfat dry milk, human .....	148,489	158,314	160,144	7.8	1.2

<sup>1</sup> Dry milk protein concentrate, 40-89.9 percent.

<sup>2</sup> Includes protein standardized and blends.

<sup>3</sup> Stocks held by manufacturers at all points and in transit.

<sup>4</sup> 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)
<b>Total cheese <sup>1</sup></b>						
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	1,141,199	3.3	9,859,785	10,201,250	3.5
October .....	1,136,863			10,996,648		
November .....	1,102,292			12,098,940		
December .....	1,154,483			13,253,423		
<b>Total American cheese types <sup>2</sup></b>						
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	454,175	5.1	3,952,587	4,160,432	5.3
October .....	460,217			4,412,804		
November .....	449,783			4,862,587		
December .....	474,946			5,337,533		
<b>Cheddar cheese</b>						
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	313,040	3.2	2,832,081	2,945,014	4.0
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)
<b>Total Italian cheese types</b>						
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	486,202	3.5	4,206,094	4,315,300	2.6
October .....	473,294			4,679,388		
November .....	454,904			5,134,292		
December .....	490,878			5,625,170		
<b>Mozzarella</b>						
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	379,321	2.1	3,337,627	3,370,769	1.0
October .....	371,411			3,709,038		
November .....	358,817			4,067,855		
December .....	382,737			4,450,592		
<b>Other Italian cheese types</b>						
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	7,668	11.6	55,703	63,553	14.1
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)
<b>Butter</b>						
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	143,396	-4.9	1,602,978	1,565,937	-2.3
October .....	161,980			1,764,958		
November .....	172,899			1,937,857		
December .....	207,529			2,145,386		
<b>Nonfat dry milk, human</b>						
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	122,377	-3.1	1,485,993	1,569,670	5.6
October .....	141,255			1,627,248		
November .....	155,435			1,782,683		
December .....	208,252			1,990,935		
<b>Skim milk powder, total <sup>3</sup></b>						
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	62,813	-22.5	516,308	408,912	-20.8
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)
<b>Dry whey, total <sup>4</sup></b>						
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	75,700	-1.6	725,908	696,199	-4.1
October .....	75,148			801,056		
November .....	68,652			869,708		
December .....	81,301			951,009		
<b>Lactose, human and animal</b>						
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	100,733	7.8	835,374	844,856	1.1
October .....	86,843			922,217		
November .....	85,542			1,007,759		
December .....	95,013			1,102,772		
<b>Whey protein concentrate, total</b>						
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	44,099	7.6	354,239	365,963	3.3
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)
<b>Cottage cheese, cream</b>						
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	29,044	-14.1	273,646	257,824	-5.8
October .....	32,294			305,940		
November .....	27,508			333,448		
December .....	29,258			362,706		
<b>Cottage cheese, lowfat</b>						
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	25,739	-3.7	235,476	229,324	-2.6
October .....	27,540			263,016		
November .....	22,228			285,244		
December .....	23,495			308,739		
<b>Sour cream</b>						
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	114,894	-5.0	1,059,357	1,085,291	2.4
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)
<b>Ice cream, regular hard</b>						
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	57,769	-15.3	587,180	564,666	-3.8
October .....	63,264			650,444		
November .....	54,826			705,270		
December .....	53,441			758,711		
<b>Ice cream, lowfat total</b>						
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	36,485	-12.6	378,843	361,443	-4.6
October .....	38,173			417,016		
November .....	33,279			450,295		
December .....	32,167			482,462		
<b>Sherbet, hard</b>						
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	2,305	-22.2	25,534	23,172	-9.3
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	388,759	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	401,315	2.5	3,446,874	3,594,208	4.3
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	2,318	-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	2,873	-9.0	28,227	28,123	-0.4
October .....	2,483			30,710		
November .....	2,130			32,840		
December .....	2,636			35,476		

- Represents zero.

<sup>1</sup> Excludes Cottage Cheese.

<sup>2</sup> Includes Cheddar, Colby, washed curd, stirred curd, Monterey, and Jack.

<sup>3</sup> Includes protein standardized and blends.

<sup>4</sup> Excludes all modified dry whey products.

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

State and region	September 2020	August 2021	September 2021	Change from	
				September 2020	August 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California .....	193,163	201,696	201,905	4.5	0.1
Idaho .....	87,104	77,868	83,276	-4.4	6.9
Illinois .....	5,025	5,327	4,851	-3.5	-8.9
Iowa .....	30,622	27,782	28,639	-6.5	3.1
Minnesota .....	58,039	64,454	63,059	8.6	-2.2
New Jersey .....	5,570	4,937	5,749	3.2	16.4
New Mexico .....	79,599	79,305	75,835	-4.7	-4.4
New York .....	73,686	72,624	73,328	-0.5	1.0
Ohio .....	21,174	20,373	20,156	-4.8	-1.1
Oregon .....	18,762	19,051	21,229	13.1	11.4
Pennsylvania .....	38,929	37,000	36,600	-6.0	-1.1
South Dakota .....	39,143	44,766	43,621	11.4	-2.6
Vermont .....	12,334	12,102	11,694	-5.2	-3.4
Wisconsin .....	283,517	294,484	288,955	1.9	-1.9
Other States <sup>1</sup> .....	157,568	184,977	182,302	15.7	-1.4
United States .....	1,104,235	1,146,746	1,141,199	3.3	-0.5
Atlantic .....	142,423	138,678	138,999	-2.4	0.2
Central .....	513,197	557,087	549,644	7.1	-1.3
West .....	448,615	450,981	452,556	0.9	0.3

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

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

State and region	September 2020	August 2021	September 2021	Change from	
				September 2020	August 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California .....	45,966	46,215	46,561	1.3	0.7
Idaho .....	51,636	48,924	48,600	-5.9	-0.7
Iowa .....	19,101	14,179	15,396	-19.4	8.6
Minnesota .....	47,083	53,273	51,553	9.5	-3.2
New York .....	10,853	11,208	11,651	7.4	4.0
Oregon .....	18,658	18,932	21,143	13.3	11.7
Wisconsin .....	86,521	89,201	88,700	2.5	-0.6
Other States <sup>1</sup> .....	152,296	176,586	170,571	12.0	-3.4
United States .....	432,114	458,518	454,175	5.1	-0.9
Atlantic .....	26,861	26,822	26,518	-1.3	-1.1
Central .....	217,031	244,314	243,219	12.1	-0.4
West .....	188,222	187,382	184,438	-2.0	-1.6

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

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

State and region	September 2020	August 2021	September 2021	Change from	
				September 2020	August 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California .....	24,680	21,648	22,301	-9.6	3.0
Iowa .....	9,643	7,946	8,942	-7.3	12.5
Minnesota .....	46,719	51,738	49,847	6.7	-3.7
Oregon .....	16,108	16,089	18,848	17.0	17.1
Vermont .....	8,174	8,307	7,942	-2.8	-4.4
Wisconsin .....	59,043	59,957	60,400	2.3	0.7
Other States <sup>1</sup> .....	138,886	153,813	144,760	4.2	-5.9
United States .....	303,253	319,498	313,040	3.2	-2.0
Atlantic .....	25,262	25,803	25,154	-0.4	-2.5
Central .....	144,748	167,517	165,642	14.4	-1.1
West .....	133,243	126,178	122,244	-8.3	-3.1

<sup>1</sup> 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: September 2020 and 2021

State and region	September 2020	August 2021	September 2021	Change from	
				September 2020	August 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California .....	125,372	135,746	133,862	6.8	-1.4
Idaho .....	31,083	24,080	29,953	-3.6	24.4
Minnesota .....	10,700	10,874	11,178	4.5	2.8
New Jersey .....	2,886	2,365	2,772	-4.0	17.2
New York .....	30,782	28,867	29,829	-3.1	3.3
Pennsylvania .....	22,692	23,153	21,636	-4.7	-6.6
Wisconsin .....	136,757	140,987	138,535	1.3	-1.7
Other States <sup>1</sup> .....	109,551	118,989	118,437	8.1	-0.5
United States .....	469,823	485,061	486,202	3.5	0.2
Atlantic .....	61,506	59,512	59,418	-3.4	-0.2
Central .....	192,701	204,941	202,497	5.1	-1.2
West .....	215,616	220,608	224,287	4.0	1.7

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

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

State and region	September 2020	August 2021	September 2021	Change from	
				September 2020	August 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California .....	116,624	124,943	125,291	7.4	0.3
Idaho .....	30,356	23,408	29,176	-3.9	24.6
New York .....	14,915	13,060	14,051	-5.8	7.6
Pennsylvania .....	18,713	19,091	17,568	-6.1	-8.0
Wisconsin .....	90,529	92,839	88,000	-2.8	-5.2
Other States <sup>1</sup> .....	100,473	106,235	105,235	4.7	-0.9
United States .....	371,610	379,576	379,321	2.1	-0.1
Atlantic .....	38,410	36,818	36,344	-5.4	-1.3
Central .....	128,506	134,804	129,070	0.4	-4.3
West .....	204,694	207,954	213,907	4.5	2.9

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

**Butter Production – States, United States, and Regions: September 2020 and 2021**

State and region	September 2020	August 2021	September 2021	Change from	
				September 2020	August 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California .....	48,485	51,325	47,383	-2.3	-7.7
New York .....	1,068	159	173	-83.8	8.8
Pennsylvania .....	6,580	7,330	6,536	-0.7	-10.8
Other States <sup>1</sup> .....	94,576	89,168	89,304	-5.6	0.2
United States .....	150,709	147,982	143,396	-4.9	-3.1
Atlantic .....	12,101	10,515	10,183	-15.8	-3.2
Central .....	56,897	55,497	53,541	-5.9	-3.5
West .....	81,711	81,970	79,672	-2.5	-2.8

<sup>1</sup> 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: September 2020 and 2021**

State and region	September 2020	August 2021	September 2021	Change from	
				September 2020	August 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California .....	39,324	37,321	41,228	4.8	10.5
Pennsylvania .....	14,741	13,415	12,186	-17.3	-9.2
Other States <sup>1</sup> .....	72,184	71,242	68,963	-4.5	-3.2
United States .....	126,249	121,978	122,377	-3.1	0.3
Atlantic .....	27,495	26,069	23,994	-12.7	-8.0
Central .....	27,558	28,227	23,608	-14.3	-16.4
West .....	71,196	67,682	74,775	5.0	10.5

<sup>1</sup> 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: September 2020 and 2021

State and region	September 2020	August 2021	September 2021	Change from	
				September 2020	August 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
New York .....	11,824	12,053	11,253	-4.8	-6.6
Wisconsin .....	22,336	24,765	22,036	-1.3	-11.0
Other States <sup>1</sup> .....	41,450	38,601	41,013	-1.1	6.2
United States .....	75,610	75,419	74,302	-1.7	-1.5
Atlantic .....	21,692	22,914	20,719	-4.5	-9.6
Central .....	32,169	35,348	32,560	1.2	-7.9
West .....	21,749	17,157	21,023	-3.3	22.5

<sup>1</sup> 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: September 2020 and 2021

State and region	September 2020	August 2021	September 2021	Change from	
				September 2020	August 2021
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
California .....	6,485	7,093	5,748	-11.4	-19.0
Connecticut .....	1,313	1,496	1,393	6.1	-6.9
Missouri .....	3,162	2,629	2,875	-9.1	9.4
New York .....	2,250	2,001	1,812	-19.5	-9.4
Ohio .....	2,900	2,530	2,383	-17.8	-5.8
Oregon .....	1,133	993	809	-28.6	-18.5
Pennsylvania .....	3,892	3,365	3,419	-12.2	1.6
Tennessee .....	1,929	2,019	2,336	21.1	15.7
Utah .....	3,286	1,290	1,237	-62.4	-4.1
Wisconsin .....	890	692	624	-29.9	-9.8
Other States <sup>1</sup> .....	40,954	39,488	35,133	-14.2	-11.0
United States .....	68,194	63,596	57,769	-15.3	-9.2
Atlantic .....	15,683	14,210	13,372	-14.7	-5.9
Central .....	39,439	38,199	35,167	-10.8	-7.9
West .....	13,072	11,187	9,230	-29.4	-17.5

<sup>1</sup> 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](mailto:nass@usda.gov).

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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

## 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](http://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](http://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](mailto: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](mailto:nass@usda.gov).

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