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## December 2017 Highlights

**Total cheese** output (excluding cottage cheese) was 1.09 billion pounds, 2.6 percent above December 2016 and 3.0 percent above November 2017.

**Italian type cheese** production totaled 467 million pounds, 0.9 percent above December 2016 and 2.4 percent above November 2017.

**American type cheese** production totaled 433 million pounds, 2.9 percent above December 2016 and 7.5 percent above November 2017.

**Butter** production was 170 million pounds, 4.2 percent above December 2016 and 15.5 percent above November 2017.

### **Dry milk products** (comparisons with December 2016)

Nonfat dry milk, human - 163 million pounds, up 5.4 percent.

Skim milk powder - 49.9 million pounds, down 8.8 percent.

### **Whey products** (comparisons with December 2016)

Dry whey, total - 83.1 million pounds, up 6.1 percent.

Lactose, human and animal - 95.7 million pounds, up 3.1 percent.

Whey protein concentrate, total - 41.8 million pounds, up 7.0 percent.

### **Frozen products** (comparisons with December 2016)

Ice cream, regular (hard) - 49.6 million gallons, down slightly.

Ice cream, lowfat (total) - 26.0 million gallons, down 7.5 percent.

Sherbet (hard) - 2.22 million gallons, up 3.0 percent.

Frozen yogurt (total) - 4.23 million gallons, down 8.8 percent.

## Contents

Dairy Products Production by Product – United States: December 2016 and 2017 .....	3
Whey and Modified Whey Products Production, Stocks, and Prices – United States: December 2016 and 2017 .....	4
Condensed and Dry Milk Products Production, Stocks, and Shipments – United States: December 2016 and 2017 .....	5
Dairy Products Production by Product and Month – United States: 2016 and 2017 .....	6
Total Cheese Production Excluding Cottage Cheese – States and United States: December 2016 and 2017 .....	13
American Cheese Production – States and United States: December 2016 and 2017 .....	14
Cheddar Cheese Production – States and United States: December 2016 and 2017 .....	14
Total Italian Cheese Production – States and United States: December 2016 and 2017 .....	15
Mozzarella Cheese Production – States and United States: December 2016 and 2017 .....	15
Butter Production – States and United States: December 2016 and 2017.....	16
Nonfat Dry Milk (Human) Production – States and United States: December 2016 and 2017 .....	16
Dry Whey (Human) Production – States and United States: December 2016 and 2017 .....	17
Ice Cream, Regular (Hard) Production – States and United States: December 2016 and 2017.....	17
Dairy Products Regions.....	18
Statistical Methodology.....	19
Information Contacts.....	20

## Dairy Products Production by Product – United States: December 2016 and 2017

Product	December 2016	November 2017	December 2017	Change from	
				December 2016	November 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Butter .....	163,443	147,425	170,285	4.2	15.5
<b>Cheese</b>					
American types <sup>1</sup> .....	420,617	402,864	432,946	2.9	7.5
Cheddar .....	307,338	286,466	317,084	3.2	10.7
Other American types .....	113,279	116,398	115,862	2.3	-0.5
Blue and Gorgonzola .....	7,110	7,560	7,091	-0.3	-6.2
Brick and Muenster .....	14,430	16,244	14,662	1.6	-9.7
Cream and Neufchatel .....	81,305	87,221	86,022	5.8	-1.4
Feta .....	8,409	8,879	9,380	11.5	5.6
Gouda .....	3,905	8,053	5,735	46.9	-28.8
Hispanic .....	22,606	24,000	22,855	1.1	-4.8
Italian types .....	462,330	455,794	466,605	0.9	2.4
Mozzarella .....	358,327	351,504	363,436	1.4	3.4
Parmesan .....	35,706	35,901	37,201	4.2	3.6
Provolone .....	33,232	32,459	31,662	-4.7	-2.5
Ricotta .....	23,342	23,873	22,982	-1.5	-3.7
Romano .....	4,413	4,815	5,334	20.9	10.8
Other Italian types .....	7,310	7,242	5,990	-18.1	-17.3
Swiss .....	27,023	26,629	27,274	0.9	2.4
All other types .....	13,779	19,590	16,239	17.9	-17.1
<b>Total cheese</b> <sup>2</sup> .....	<b>1,061,514</b>	<b>1,056,834</b>	<b>1,088,809</b>	<b>2.6</b>	<b>3.0</b>
Cottage cheese, curd <sup>3</sup> .....	30,897	29,525	29,055	-6.0	-1.6
Cottage cheese, cream <sup>4</sup> .....	25,805	26,307	26,039	0.9	-1.0
Cottage cheese, lowfat <sup>5</sup> .....	27,586	26,391	25,346	-8.1	-4.0
Sour cream .....	129,367	128,704	122,437	-5.4	-4.9
Yogurt, plain and flavored .....	359,135	310,270	353,908	-1.5	14.1
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
<b>Frozen products</b>					
Ice cream, regular, hard .....	49,731	50,343	49,611	-0.2	-1.5
Ice cream, lowfat, hard .....	13,061	12,361	12,409	-5.0	0.4
Ice cream, lowfat, soft .....	15,057	14,125	13,597	-9.7	-3.7
Ice cream, lowfat, total .....	28,118	26,486	26,006	-7.5	-1.8
Ice cream, nonfat, hard .....	534	454	682	27.7	50.2
Sherbet, hard .....	2,154	2,777	2,218	3.0	-20.1
Frozen yogurt, total .....	4,638	4,289	4,230	-8.8	-1.4
Regular and lowfat, hard .....	1,643	1,311	1,188	-27.7	-9.4
Nonfat, hard .....	295	355	342	15.9	-3.7
Other frozen dairy products .....	588	2,035	1,394	137.1	-31.5
Water and juice ices .....	3,133	3,746	3,162	0.9	-15.6
<b>Mix for frozen products</b>					
Ice cream, regular, mix .....	28,773	30,597	27,322	-5.0	-10.7
Ice cream, lowfat, mix .....	14,418	14,964	14,673	1.8	-1.9
Ice cream, nonfat, mix .....	485	414	434	-10.5	4.8
Sherbet mix .....	1,465	1,796	1,425	-2.7	-20.7
Yogurt mix .....	2,809	2,049	2,305	-17.9	12.5

<sup>1</sup> Includes Cheddar, Colby, 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.

**Whey and Modified Whey Products Production, Stocks, and Prices – United States:  
December 2016 and 2017**

Product	December 2016	November 2017	December 2017	Change from	
				December 2016	November 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Condensed whey, solids content <sup>1</sup>					
Sweet-type, human .....	9,801	7,156	6,376	-34.9	-10.9
Dry whey products					
Dry whey, human .....	76,733	79,807	81,471	6.2	2.1
Dry whey, animal .....	1,534	1,825	1,606	4.7	-12.0
Dry whey, total .....	78,267	81,632	83,077	6.1	1.8
Reduced lactose and minerals					
Human .....	2,309	1,298	1,629	-29.4	25.5
Animal .....	2,570	2,621	2,864	11.4	9.3
Whey protein concentrate					
Human <sup>2</sup> .....	38,747	40,442	41,072	6.0	1.6
Animal <sup>2</sup> .....	306	552	701	129.1	27.0
Total <sup>2</sup> .....	39,053	40,994	41,773	7.0	1.9
25.0-49.9 percent <sup>3</sup> .....	14,511	15,083	14,834	2.2	-1.7
50.0-89.9 percent <sup>3</sup> .....	24,542	25,911	26,939	9.8	4.0
Whey protein isolates <sup>4</sup> .....	10,987	8,727	9,574	-12.9	9.7
Lactose, human and animal .....	92,846	86,001	95,687	3.1	11.3
<b>Manufacturers' stocks end of month <sup>5</sup></b>					
Dry whey products					
Dry whey, human .....	63,842	98,453	96,861	51.7	-1.6
Dry whey, animal .....	1,834	1,830	1,531	-16.5	-16.3
Dry whey, total .....	65,676	100,283	98,392	49.8	-1.9
Reduced Lactose and minerals					
Human and animal <sup>6</sup> .....	6,345	5,314	5,067	-20.1	-4.6
Whey protein concentrate					
Human <sup>2</sup> .....	59,786	80,584	83,508	39.7	3.6
Animal <sup>2</sup> .....	650	737	885	36.2	20.1
Total <sup>2</sup> .....	60,436	81,321	84,393	39.6	3.8
25.0-49.9 percent <sup>3</sup> .....	22,406	24,005	24,779	10.6	3.2
50.0-89.9 percent <sup>3</sup> .....	38,030	57,316	59,614	56.8	4.0
Whey protein isolates <sup>4</sup> .....	22,424	27,927	28,129	25.4	0.7
Lactose, human and animal .....	109,277	143,073	136,946	25.3	-4.3
	(cents per pound)	(cents per pound)	(cents per pound)	(cents change)	(cents change)
<b>Manufacturers' selling price <sup>7</sup></b>					
Dry whey, animal .....	27.4	14.8	15.7	-11.6	0.9

<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:  
December 2016 and 2017**

Product	December 2016	November 2017	December 2017	Change from	
				December 2016	November 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
<b>Production</b>					
Bulk condensed milk					
Skim, unsweetened .....	102,681	108,985	108,601	5.8	-0.4
Dry milk products					
Dry buttermilk, total .....	10,988	10,176	11,184	1.8	9.9
Dry skim milk, animal .....	863	958	1,081	25.3	12.8
Dry whole milk .....	9,661	15,853	11,517	19.2	-27.4
Milk protein concentrate, total <sup>1</sup> .....	14,008	7,131	17,351	23.9	143.3
Nonfat dry milk, human .....	154,980	142,352	163,298	5.4	14.7
Skim milk powder, total <sup>2</sup> .....	54,726	41,887	49,895	-8.8	19.1
<b>Manufacturers' stocks end-of-month <sup>3</sup></b>					
Dry milk products					
Dry buttermilk, total .....	22,805	21,097	23,702	3.9	12.3
Dry skim milk, animal .....	1,969	2,023	1,743	-11.5	-13.8
Dry whole milk .....	13,346	27,878	31,984	139.7	14.7
Nonfat dry milk, human .....	225,506	317,136	330,433	46.5	4.2
<b>Manufacturers' shipments <sup>4</sup></b>					
Dry milk products					
Nonfat dry milk, human .....	138,346	121,380	133,698	-3.4	10.1

<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: 2016 and 2017**

Product and month	By month			Cumulative		
	2016	2017	Change from 2016	2016	2017	Change from 2016
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
<b>Total cheese <sup>1</sup></b>						
January .....	1,024,566	1,044,983	2.0	1,024,566	1,044,983	2.0
February .....	948,740	942,361	-0.7	1,973,306	1,987,344	0.7
March .....	1,028,308	1,061,402	3.2	3,001,614	3,048,746	1.6
April .....	1,002,315	1,042,783	4.0	4,003,929	4,091,529	2.2
May .....	1,011,424	1,055,063	4.3	5,015,353	5,146,592	2.6
June .....	997,528	1,029,638	3.2	6,012,881	6,176,230	2.7
July .....	1,017,092	1,034,596	1.7	7,029,973	7,210,826	2.6
August .....	1,004,907	1,028,400	2.3	8,034,880	8,239,226	2.5
September .....	987,256	1,013,341	2.6	9,022,136	9,252,567	2.6
October .....	1,048,119	1,076,849	2.7	10,070,255	10,329,416	2.6
November .....	1,025,928	1,056,834	3.0	11,096,183	11,386,250	2.6
December .....	1,061,514	1,088,809	2.6	12,157,697	12,475,059	2.6
<b>Total American cheese types <sup>2</sup></b>						
January .....	401,810	417,584	3.9	401,810	417,584	3.9
February .....	367,399	373,688	1.7	769,209	791,272	2.9
March .....	401,665	415,940	3.6	1,170,874	1,207,212	3.1
April .....	398,307	423,774	6.4	1,569,181	1,630,986	3.9
May .....	402,266	426,550	6.0	1,971,447	2,057,536	4.4
June .....	392,168	403,258	2.8	2,363,615	2,460,794	4.1
July .....	401,061	400,509	-0.1	2,764,676	2,861,303	3.5
August .....	392,532	398,766	1.6	3,157,208	3,260,069	3.3
September .....	378,004	393,892	4.2	3,535,212	3,653,961	3.4
October .....	401,681	418,155	4.1	3,936,893	4,072,116	3.4
November .....	398,690	402,864	1.0	4,335,583	4,474,980	3.2
December .....	420,617	432,946	2.9	4,756,200	4,907,926	3.2
<b>Cheddar cheese</b>						
January .....	297,072	311,603	4.9	297,072	311,603	4.9
February .....	257,987	275,988	7.0	555,059	587,591	5.9
March .....	286,220	309,569	8.2	841,279	897,160	6.6
April .....	299,780	318,867	6.4	1,141,059	1,216,027	6.6
May .....	292,636	311,990	6.6	1,433,695	1,528,017	6.6
June .....	280,376	287,357	2.5	1,714,071	1,815,374	5.9
July .....	284,173	285,133	0.3	1,998,244	2,100,507	5.1
August .....	281,287	283,813	0.9	2,279,531	2,384,320	4.6
September .....	270,531	282,002	4.2	2,550,062	2,666,322	4.6
October .....	282,640	294,992	4.4	2,832,702	2,961,314	4.5
November .....	284,679	286,466	0.6	3,117,381	3,247,780	4.2
December .....	307,338	317,084	3.2	3,424,719	3,564,864	4.1

See footnote(s) at end of table.

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**Dairy Products Production by Product and Month – United States: 2016 and 2017 (continued)**

Product and month	By month			Cumulative		
	2016	2017	Change from 2016	2016	2017	Change from 2016
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
<b>Total Italian cheese types</b>						
January .....	450,991	454,006	0.7	450,991	454,006	0.7
February .....	416,850	406,570	-2.5	867,841	860,576	-0.8
March .....	458,613	469,197	2.3	1,326,454	1,329,773	0.3
April .....	438,588	447,658	2.1	1,765,042	1,777,431	0.7
May .....	444,995	452,567	1.7	2,210,037	2,229,998	0.9
June .....	435,342	449,930	3.4	2,645,379	2,679,928	1.3
July .....	444,306	451,732	1.7	3,089,685	3,131,660	1.4
August .....	425,216	436,258	2.6	3,514,901	3,567,918	1.5
September .....	429,204	433,570	1.0	3,944,105	4,001,488	1.5
October .....	447,342	457,367	2.2	4,391,447	4,458,855	1.5
November .....	438,866	455,794	3.9	4,830,313	4,914,649	1.7
December .....	462,330	466,605	0.9	5,292,643	5,381,254	1.7
<b>Mozzarella</b>						
January .....	352,402	352,375	-	352,402	352,375	-
February .....	325,516	314,758	-3.3	677,918	667,133	-1.6
March .....	358,031	361,564	1.0	1,035,949	1,028,697	-0.7
April .....	340,164	347,614	2.2	1,376,113	1,376,311	-
May .....	346,457	350,712	1.2	1,722,570	1,727,023	0.3
June .....	338,997	349,793	3.2	2,061,567	2,076,816	0.7
July .....	348,321	352,474	1.2	2,409,888	2,429,290	0.8
August .....	328,240	335,818	2.3	2,738,128	2,765,108	1.0
September .....	333,318	333,695	0.1	3,071,446	3,098,803	0.9
October .....	344,711	349,517	1.4	3,416,157	3,448,320	0.9
November .....	339,289	351,504	3.6	3,755,446	3,799,824	1.2
December .....	358,327	363,436	1.4	4,113,773	4,163,260	1.2
<b>Other Italian cheese types</b>						
January .....	6,097	6,337	3.9	6,097	6,337	3.9
February .....	5,718	6,293	10.1	11,815	12,630	6.9
March .....	5,863	7,498	27.9	17,678	20,128	13.9
April .....	5,530	6,544	18.3	23,208	26,672	14.9
May .....	6,410	6,553	2.2	29,618	33,225	12.2
June .....	5,890	6,953	18.0	35,508	40,178	13.2
July .....	5,497	6,093	10.8	41,005	46,271	12.8
August .....	4,940	5,719	15.8	45,945	51,990	13.2
September .....	6,465	6,625	2.5	52,410	58,615	11.8
October .....	6,685	6,176	-7.6	59,095	64,791	9.6
November .....	6,593	7,242	9.8	65,688	72,033	9.7
December .....	7,310	5,990	-18.1	72,998	78,023	6.9

See footnote(s) at end of table.

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**Dairy Products Production by Product and Month – United States: 2016 and 2017 (continued)**

Product and month	By month			Cumulative		
	2016	2017	Change from 2016	2016	2017	Change from 2016
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
<b>Butter</b>						
January .....	170,735	177,818	4.1	170,735	177,818	4.1
February .....	168,263	161,052	-4.3	338,998	338,870	-
March .....	174,907	176,067	0.7	513,905	514,937	0.2
April .....	171,199	162,519	-5.1	685,104	677,456	-1.1
May .....	166,017	163,524	-1.5	851,121	840,980	-1.2
June .....	147,696	140,157	-5.1	998,817	981,137	-1.8
July .....	135,160	135,834	0.5	1,133,977	1,116,971	-1.5
August .....	123,514	131,188	6.2	1,257,491	1,248,159	-0.7
September .....	135,273	134,357	-0.7	1,392,764	1,382,516	-0.7
October .....	139,849	143,382	2.5	1,532,613	1,525,898	-0.4
November .....	143,077	147,425	3.0	1,675,690	1,673,323	-0.1
December .....	163,443	170,285	4.2	1,839,133	1,843,608	0.2
<b>Nonfat dry milk, human</b>						
January .....	137,463	153,374	11.6	137,463	153,374	11.6
February .....	143,032	141,402	-1.1	280,495	294,776	5.1
March .....	172,110	159,742	-7.2	452,605	454,518	0.4
April .....	170,927	171,889	0.6	623,532	626,407	0.5
May .....	166,022	168,325	1.4	789,554	794,732	0.7
June .....	146,668	163,344	11.4	936,222	958,076	2.3
July .....	150,873	148,073	-1.9	1,087,095	1,106,149	1.8
August .....	117,674	135,479	15.1	1,204,769	1,241,628	3.1
September .....	125,602	133,485	6.3	1,330,371	1,375,113	3.4
October .....	140,051	144,659	3.3	1,470,422	1,519,772	3.4
November .....	128,105	142,352	11.1	1,598,527	1,662,124	4.0
December .....	154,980	163,298	5.4	1,753,507	1,825,422	4.1
<b>Skim milk powder, total <sup>3</sup></b>						
January .....	51,225	55,264	7.9	51,225	55,264	7.9
February .....	40,201	40,031	-0.4	91,426	95,295	4.2
March .....	40,564	52,693	29.9	131,990	147,988	12.1
April .....	43,189	50,206	16.2	175,179	198,194	13.1
May .....	50,865	51,012	0.3	226,044	249,206	10.2
June .....	55,853	39,997	-28.4	281,897	289,203	2.6
July .....	48,814	51,788	6.1	330,711	340,991	3.1
August .....	46,426	45,793	-1.4	377,137	386,784	2.6
September .....	38,447	29,793	-22.5	415,584	416,577	0.2
October .....	41,475	25,612	-38.2	457,059	442,189	-3.3
November .....	47,388	41,887	-11.6	504,447	484,076	-4.0
December .....	54,726	49,895	-8.8	559,173	533,971	-4.5

See footnote(s) at end of table.

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**Dairy Products Production by Product and Month – United States: 2016 and 2017 (continued)**

Product and month	By month			Cumulative		
	2016	2017	Change from 2016	2016	2017	Change from 2016
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
<b>Dry whey, total <sup>4</sup></b>						
January .....	82,918	82,316	-0.7	82,918	82,316	-0.7
February .....	75,535	77,997	3.3	158,453	160,313	1.2
March .....	82,656	86,689	4.9	241,109	247,002	2.4
April .....	81,817	84,615	3.4	322,926	331,617	2.7
May .....	82,386	82,950	0.7	405,312	414,567	2.3
June .....	79,751	88,064	10.4	485,063	502,631	3.6
July .....	81,952	100,402	22.5	567,015	603,033	6.4
August .....	77,009	94,277	22.4	644,024	697,310	8.3
September .....	75,517	91,302	20.9	719,541	788,612	9.6
October .....	83,823	80,728	-3.7	803,364	869,340	8.2
November .....	73,315	81,632	11.3	876,679	950,972	8.5
December .....	78,267	83,077	6.1	954,946	1,034,049	8.3
<b>Lactose, human and animal</b>						
January .....	88,943	92,658	4.2	88,943	92,658	4.2
February .....	83,703	84,794	1.3	172,646	177,452	2.8
March .....	92,796	97,334	4.9	265,442	274,786	3.5
April .....	91,527	95,901	4.8	356,969	370,687	3.8
May .....	93,097	94,919	2.0	450,066	465,606	3.5
June .....	93,713	97,069	3.6	543,779	562,675	3.5
July .....	97,841	99,539	1.7	641,620	662,214	3.2
August .....	92,635	97,226	5.0	734,255	759,440	3.4
September .....	94,882	95,016	0.1	829,137	854,456	3.1
October .....	89,840	93,260	3.8	918,977	947,716	3.1
November .....	86,913	86,001	-1.0	1,005,890	1,033,717	2.8
December .....	92,846	95,687	3.1	1,098,736	1,129,404	2.8
<b>Whey protein concentrate, total</b>						
January .....	42,602	40,161	-5.7	42,602	40,161	-5.7
February .....	39,780	36,064	-9.3	82,382	76,225	-7.5
March .....	41,851	42,338	1.2	124,233	118,563	-4.6
April .....	39,030	42,890	9.9	163,263	161,453	-1.1
May .....	39,349	42,774	8.7	202,612	204,227	0.8
June .....	38,036	40,751	7.1	240,648	244,978	1.8
July .....	38,437	42,040	9.4	279,085	287,018	2.8
August .....	35,665	38,106	6.8	314,750	325,124	3.3
September .....	36,745	38,891	5.8	351,495	364,015	3.6
October .....	38,060	41,059	7.9	389,555	405,074	4.0
November .....	39,268	40,994	4.4	428,823	446,068	4.0
December .....	39,053	41,773	7.0	467,876	487,841	4.3

See footnote(s) at end of table.

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**Dairy Products Production by Product and Month – United States: 2016 and 2017 (continued)**

Product and month	By month			Cumulative		
	2016	2017	Change from 2016	2016	2017	Change from 2016
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
<b>Cottage cheese, cream</b>						
January .....	25,636	23,743	-7.4	25,636	23,743	-7.4
February .....	26,945	26,208	-2.7	52,581	49,951	-5.0
March .....	29,154	28,381	-2.7	81,735	78,332	-4.2
April .....	27,052	25,568	-5.5	108,787	103,900	-4.5
May .....	28,946	29,071	0.4	137,733	132,971	-3.5
June .....	28,335	27,754	-2.1	166,068	160,725	-3.2
July .....	27,163	27,774	2.2	193,231	188,499	-2.4
August .....	29,684	30,295	2.1	222,915	218,794	-1.8
September .....	27,782	26,976	-2.9	250,697	245,770	-2.0
October .....	26,901	28,867	7.3	277,598	274,637	-1.1
November .....	26,041	26,307	1.0	303,639	300,944	-0.9
December .....	25,805	26,039	0.9	329,444	326,983	-0.7
<b>Cottage cheese, lowfat</b>						
January .....	30,270	26,988	-10.8	30,270	26,988	-10.8
February .....	30,311	28,297	-6.6	60,581	55,285	-8.7
March .....	34,486	30,809	-10.7	95,067	86,094	-9.4
April .....	30,326	29,731	-2.0	125,393	115,825	-7.6
May .....	32,490	31,324	-3.6	157,883	147,149	-6.8
June .....	30,751	27,804	-9.6	188,634	174,953	-7.3
July .....	30,359	28,068	-7.5	218,993	203,021	-7.3
August .....	32,260	31,571	-2.1	251,253	234,592	-6.6
September .....	30,566	27,553	-9.9	281,819	262,145	-7.0
October .....	29,954	30,270	1.1	311,773	292,415	-6.2
November .....	28,456	26,391	-7.3	340,229	318,806	-6.3
December .....	27,586	25,346	-8.1	367,815	344,152	-6.4
<b>Sour cream</b>						
January .....	106,503	111,173	4.4	106,503	111,173	4.4
February .....	106,171	100,873	-5.0	212,674	212,046	-0.3
March .....	115,470	115,459	-	328,144	327,505	-0.2
April .....	100,460	108,816	8.3	428,604	436,321	1.8
May .....	113,737	118,460	4.2	542,341	554,781	2.3
June .....	117,910	117,623	-0.2	660,251	672,404	1.8
July .....	103,526	107,802	4.1	763,777	780,206	2.2
August .....	114,546	117,657	2.7	878,323	897,863	2.2
September .....	108,619	108,089	-0.5	986,942	1,005,952	1.9
October .....	123,458	125,192	1.4	1,110,400	1,131,144	1.9
November .....	133,291	128,704	-3.4	1,243,691	1,259,848	1.3
December .....	129,367	122,437	-5.4	1,373,058	1,382,285	0.7

See footnote(s) at end of table.

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**Dairy Products Production by Product and Month – United States: 2016 and 2017 (continued)**

Product and month	By month			Cumulative		
	2016	2017	Change from 2016	2016	2017	Change from 2016
	(1,000 gallons)	(1,000 gallons)	(percent)	(1,000 gallons)	(1,000 gallons)	(percent)
<b>Ice cream, regular hard</b>						
January .....	59,344	57,108	-3.8	59,344	57,108	-3.8
February .....	61,786	58,971	-4.6	121,130	116,079	-4.2
March .....	72,870	75,411	3.5	194,000	191,490	-1.3
April .....	73,116	69,572	-4.8	267,116	261,062	-2.3
May .....	72,760	72,703	-0.1	339,876	333,765	-1.8
June .....	77,004	75,426	-2.0	416,880	409,191	-1.8
July .....	71,837	70,705	-1.6	488,717	479,896	-1.8
August .....	73,038	73,477	0.6	561,755	553,373	-1.5
September .....	63,570	60,924	-4.2	625,325	614,297	-1.8
October .....	59,850	58,215	-2.7	685,175	672,512	-1.8
November .....	51,941	50,343	-3.1	737,116	722,855	-1.9
December .....	49,731	49,611	-0.2	786,847	772,466	-1.8
<b>Ice cream, lowfat total</b>						
January .....	29,641	28,935	-2.4	29,641	28,935	-2.4
February .....	32,454	34,035	4.9	62,095	62,970	1.4
March .....	40,693	41,263	1.4	102,788	104,233	1.4
April .....	40,257	39,010	-3.1	143,045	143,243	0.1
May .....	40,406	43,609	7.9	183,451	186,852	1.9
June .....	43,003	44,929	4.5	226,454	231,781	2.4
July .....	41,076	42,299	3.0	267,530	274,080	2.4
August .....	43,730	43,250	-1.1	311,260	317,330	2.0
September .....	35,310	32,551	-7.8	346,570	349,881	1.0
October .....	32,352	32,603	0.8	378,922	382,484	0.9
November .....	28,279	26,486	-6.3	407,201	408,970	0.4
December .....	28,118	26,006	-7.5	435,319	434,976	-0.1
<b>Sherbet, hard</b>						
January .....	2,443	3,024	23.8	2,443	3,024	23.8
February .....	3,196	2,710	-15.2	5,639	5,734	1.7
March .....	3,724	3,530	-5.2	9,363	9,264	-1.1
April .....	3,694	3,463	-6.3	13,057	12,727	-2.5
May .....	3,545	3,290	-7.2	16,602	16,017	-3.5
June .....	3,672	3,582	-2.5	20,274	19,599	-3.3
July .....	3,136	2,978	-5.0	23,410	22,577	-3.6
August .....	3,109	3,483	12.0	26,519	26,060	-1.7
September .....	3,368	3,192	-5.2	29,887	29,252	-2.1
October .....	2,584	2,675	3.5	32,471	31,927	-1.7
November .....	1,939	2,777	43.2	34,410	34,704	0.9
December .....	2,154	2,218	3.0	36,564	36,922	1.0

See footnote(s) at end of table.

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**Dairy Products Production by Product and Month – United States: 2016 and 2017 (continued)**

Product and month	By month			Cumulative		
	2016	2017	Change from 2016	2016	2017	Change from 2016
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Yogurt, plain and flavored						
January .....	379,223	374,817	-1.2	379,223	374,817	-1.2
February .....	376,949	363,051	-3.7	756,172	737,868	-2.4
March .....	400,584	399,565	-0.3	1,156,756	1,137,433	-1.7
April .....	373,054	368,594	-1.2	1,529,810	1,506,027	-1.6
May .....	364,164	374,375	2.8	1,893,974	1,880,402	-0.7
June .....	378,544	369,950	-2.3	2,272,518	2,250,352	-1.0
July .....	341,666	342,213	0.2	2,614,184	2,592,565	-0.8
August .....	399,394	388,659	-2.7	3,013,578	2,981,224	-1.1
September .....	411,003	386,285	-6.0	3,424,581	3,367,509	-1.7
October .....	361,120	359,744	-0.4	3,785,701	3,727,253	-1.5
November .....	310,983	310,270	-0.2	4,096,684	4,037,523	-1.4
December .....	359,135	353,908	-1.5	4,455,819	4,391,431	-1.4
	(1,000 gallons)	(1,000 gallons)	(percent)	(1,000 gallons)	(1,000 gallons)	(percent)
Frozen yogurt, total						
January .....	5,065	4,817	-4.9	5,065	4,817	-4.9
February .....	5,802	5,124	-11.7	10,867	9,941	-8.5
March .....	7,204	7,459	3.5	18,071	17,400	-3.7
April .....	6,279	6,820	8.6	24,350	24,220	-0.5
May .....	6,321	6,056	-4.2	30,671	30,276	-1.3
June .....	6,404	6,057	-5.4	37,075	36,333	-2.0
July .....	5,676	5,475	-3.5	42,751	41,808	-2.2
August .....	5,675	5,503	-3.0	48,426	47,311	-2.3
September .....	5,074	4,899	-3.4	53,500	52,210	-2.4
October .....	4,550	4,559	0.2	58,050	56,769	-2.2
November .....	4,238	4,289	1.2	62,288	61,058	-2.0
December .....	4,638	4,230	-8.8	66,926	65,288	-2.4

- Represents zero.

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

<sup>2</sup> Includes Cheddar, Colby, 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 and United States:  
December 2016 and 2017**

State	December 2016	November 2017	December 2017	Change from	
				December 2016	November 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California .....	217,234	211,091	217,423	0.1	3.0
Idaho .....	81,734	76,876	84,748	3.7	10.2
Illinois .....	7,309	6,988	7,272	-0.5	4.1
Iowa .....	20,105	21,044	19,802	-1.5	-5.9
Minnesota .....	57,654	58,381	62,858	9.0	7.7
New Jersey .....	5,257	4,348	5,363	2.0	23.3
New Mexico .....	68,165	64,483	66,689	-2.2	3.4
New York .....	71,704	79,194	77,691	8.3	-1.9
Ohio .....	19,816	19,353	19,767	-0.2	2.1
Pennsylvania .....	34,486	36,156	34,989	1.5	-3.2
South Dakota .....	25,462	23,515	25,669	0.8	9.2
Vermont .....	12,188	12,363	12,804	5.1	3.6
Wisconsin .....	281,327	277,738	288,691	2.6	3.9
Other States <sup>1</sup> .....	159,073	165,304	165,043	3.8	-0.2
United States .....	1,061,514	1,056,834	1,088,809	2.6	3.0
Atlantic .....	131,121	140,051	139,232	6.2	-0.6
Central .....	481,548	479,468	494,996	2.8	3.2
West .....	448,845	437,315	454,581	1.3	3.9

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

## American Cheese Production – States and United States: December 2016 and 2017

State	December 2016	November 2017	December 2017	Change from	
				December 2016	November 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California .....	57,363	50,623	56,105	-2.2	10.8
Idaho .....	50,851	52,013	53,175	4.6	2.2
Iowa .....	14,327	11,390	12,033	-16.0	5.6
New York .....	11,393	11,220	11,361	-0.3	1.3
Oregon .....	16,816	17,359	17,725	5.4	2.1
Pennsylvania .....	74	143	164	121.6	14.7
Wisconsin .....	83,665	83,253	89,000	6.4	6.9
Other States <sup>1</sup> .....	186,128	176,863	193,383	3.9	9.3
United States .....	420,617	402,864	432,946	2.9	7.5
Atlantic .....	26,327	26,679	27,775	5.5	4.1
Central .....	206,350	201,335	216,558	4.9	7.6
West .....	187,940	174,850	188,613	0.4	7.9

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

## Cheddar Cheese Production – States and United States: December 2016 and 2017

State	December 2016	November 2017	December 2017	Change from	
				December 2016	November 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California .....	33,596	26,672	31,682	-5.7	18.8
Idaho .....	40,638	40,100	43,517	7.1	8.5
Iowa .....	9,056	6,025	6,418	-29.1	6.5
Minnesota .....	45,116	45,721	50,100	11.0	9.6
Vermont .....	8,734	8,453	8,960	2.6	6.0
Wisconsin .....	58,694	56,617	62,800	7.0	10.9
Other States <sup>1</sup> .....	111,504	102,878	113,607	1.9	10.4
United States .....	307,338	286,466	317,084	3.2	10.7
Atlantic .....	25,355	25,699	26,770	5.6	4.2
Central .....	144,419	139,815	155,556	7.7	11.3
West .....	137,564	120,952	134,758	-2.0	11.4

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

## Total Italian Cheese Production – States and United States: December 2016 and 2017

State	December 2016	November 2017	December 2017	Change from	
				December 2016	November 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California .....	141,865	136,884	137,440	-3.1	0.4
Idaho .....	24,897	18,399	25,914	4.1	40.8
New York .....	31,718	34,299	33,998	7.2	-0.9
Pennsylvania .....	21,232	21,505	21,054	-0.8	-2.1
Wisconsin .....	144,619	139,697	146,528	1.3	4.9
Other States <sup>1</sup> .....	97,999	105,010	101,671	3.7	-3.2
United States .....	462,330	455,794	466,605	0.9	2.4
Atlantic .....	58,030	60,432	60,272	3.9	-0.3
Central .....	185,106	183,770	189,209	2.2	3.0
West .....	219,194	211,592	217,124	-0.9	2.6

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

## Mozzarella Cheese Production – States and United States: December 2016 and 2017

State	December 2016	November 2017	December 2017	Change from	
				December 2016	November 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California .....	130,477	125,114	125,944	-3.5	0.7
Idaho .....	23,189	17,383	24,218	4.4	39.3
New York .....	16,965	17,430	19,151	12.9	9.9
Pennsylvania .....	18,305	18,737	18,139	-0.9	-3.2
Wisconsin .....	92,476	90,102	96,500	4.4	7.1
Other States <sup>1</sup> .....	76,915	82,738	79,484	3.3	-3.9
United States .....	358,327	351,504	363,436	1.4	3.4
Atlantic .....	37,294	38,168	39,358	5.5	3.1
Central .....	116,597	116,500	121,640	4.3	4.4
West .....	204,436	196,836	202,438	-1.0	2.8

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

**Butter Production – States and United States: December 2016 and 2017**

State	December 2016	November 2017	December 2017	Change from	
				December 2016	November 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California .....	50,429	42,077	50,282	-0.3	19.5
New York .....	2,810	2,139	2,820	0.4	31.8
Pennsylvania .....	9,189	7,279	8,862	-3.6	21.7
Other States <sup>1</sup> .....	101,015	95,930	108,321	7.2	12.9
United States .....	163,443	147,425	170,285	4.2	15.5
Atlantic .....	18,015	14,863	18,360	1.9	23.5
Central .....	66,285	63,132	70,387	6.2	11.5
West .....	79,143	69,430	81,538	3.0	17.4

<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 and United States: December 2016 and 2017**

State	December 2016	November 2017	December 2017	Change from	
				December 2016	November 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California .....	53,415	41,963	55,900	4.7	33.2
Pennsylvania .....	15,513	14,056	15,026	-3.1	6.9
Other States <sup>1</sup> .....	86,052	86,333	92,372	7.3	7.0
United States .....	154,980	142,352	163,298	5.4	14.7
Atlantic .....	28,217	27,950	30,110	6.7	7.7
Central .....	32,215	29,464	31,288	-2.9	6.2
West .....	94,548	84,938	101,900	7.8	20.0

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



## Dry Whey (Human) Production – States and United States: December 2016 and 2017

State	December 2016	November 2017	December 2017	Change from	
				December 2016	November 2017
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
New York .....	11,653	11,201	11,729	0.7	4.7
Wisconsin .....	27,493	27,446	28,188	2.5	2.7
Other States <sup>1</sup> .....	37,587	41,160	41,554	10.6	1.0
United States .....	76,733	79,807	81,471	6.2	2.1
Atlantic .....	20,584	20,238	20,652	0.3	2.0
Central .....	39,345	39,459	39,880	1.4	1.1
West .....	16,804	20,110	20,939	24.6	4.1

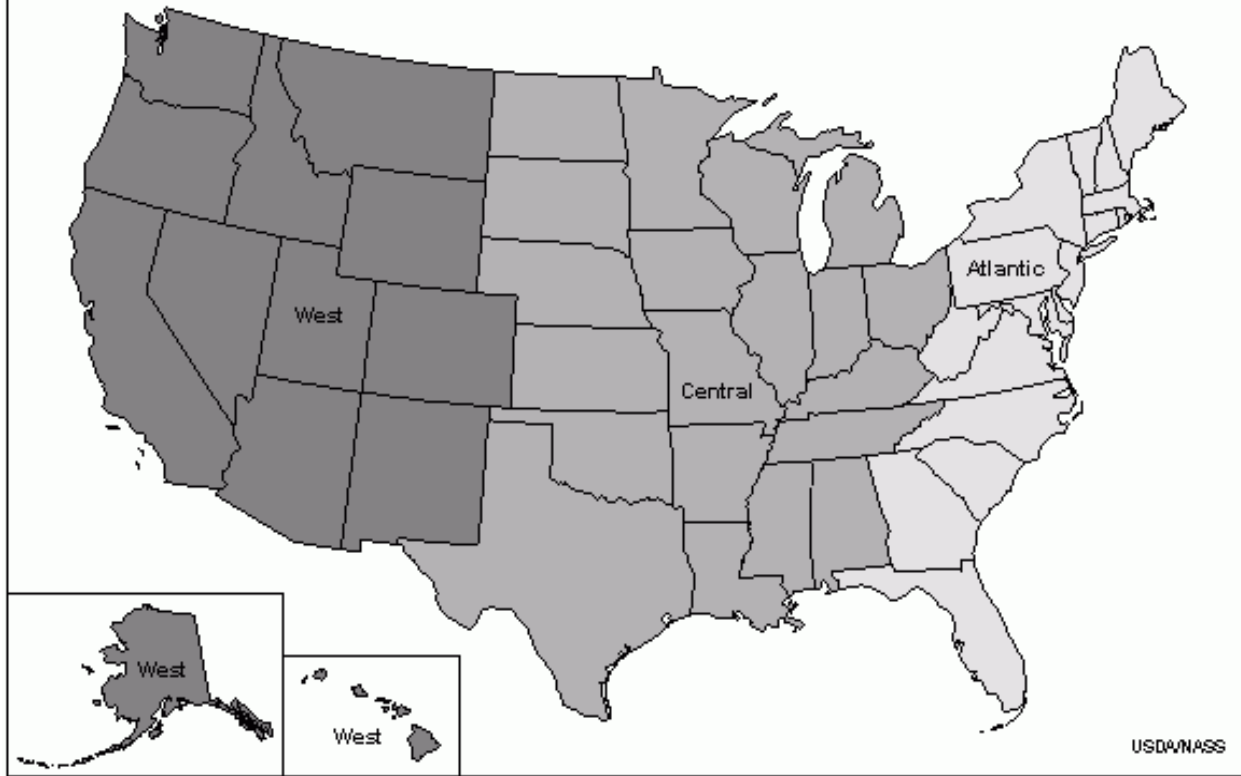
<sup>1</sup> States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

## Ice Cream, Regular (Hard) Production – States and United States: December 2016 and 2017

State	December 2016	November 2017	December 2017	Change from	
				December 2016	November 2017
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
California .....	6,225	5,228	5,131	-17.6	-1.9
Connecticut .....	716	850	735	2.7	-13.5
Missouri .....	688	1,682	1,394	102.6	-17.1
Ohio .....	1,618	1,940	1,720	6.3	-11.3
Oregon .....	959	866	957	-0.2	10.5
Pennsylvania .....	3,851	3,797	3,800	-1.3	0.1
Wisconsin .....	979	844	894	-8.7	5.9
Other States <sup>1</sup> .....	34,695	35,136	34,980	0.8	-0.4
United States .....	49,731	50,343	49,611	-0.2	-1.5
Atlantic .....	12,084	12,280	11,870	-1.8	-3.3
Central .....	26,519	27,676	28,446	7.3	2.8
West .....	11,128	10,387	9,295	-16.5	-10.5

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

# Dairy Products Regions



## 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 2016, there were 1,272 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@nass.usda.gov](mailto:nass@nass.usda.gov).

Travis Averill, Chief, Livestock Branch .....	(202) 720-3570
Scott Hollis, Head, Livestock Section .....	(202) 690-2424
Sherry Bertramsen – Livestock Slaughter .....	(202) 720-3240
Donnie Fike – Dairy Products .....	(202) 690-3236
Heidi Gleich – Cattle, Cattle on Feed .....	(202) 720-3040
Mike Miller – Milk Production and Milk Cows .....	(202) 720-3278
Seth Riggins – Hogs and Pigs .....	(202) 720-3106
Vacant – Sheep and Goats .....	(202) 720-0585

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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.

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@nass.usda.gov](mailto:nass@nass.usda.gov).

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