

United States  
Department of  
Agriculture

National  
Agricultural  
Statistics  
Service



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# Dairy Products 1998 Summary

April 1999

# USDA



## **Cheese Output Up 2 Percent**

**Total cheese production**, excluding cottage cheeses, was 7.50 billion pounds, 2 percent above the 1997 production. Wisconsin was the leading State with 28 percent of the production.

**American type cheese production**, was 3.33 billion pounds, 1 percent above 1997 and accounted for 44 percent of total cheese in 1998.

**Italian varieties**, with 3.00 billion pounds were 4 percent above the 1997 production. Mozzarella accounted for 79 percent of the Italian production followed by Ricotta with 8 percent and Provolone with 7 percent. Wisconsin was the leading State in Italian cheese production with 29 percent of the production.

## **Butter Production Down 6 Percent in 1998**

**Production of butter** in the United States during 1998 totaled 1.08 billion pounds, 6 percent less than 1997. Wisconsin accounted for 28 percent of the production, followed by California with 21 percent and Pennsylvania with 8 percent.

**Ice Cream Production** increased in 1998. Regular ice cream production totaled 937 million gallons, up 3 percent from 1997. Lowfat ice cream, at 409 million gallons, was up 6 percent.

**Nonfat dry milk** for human food production, at 1.14 billion pounds, was down 7 percent from 1997. Dry whole milk, at 143 million pounds, was up 17 percent.

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**Milk Marketings and Utilization for Manufactured Dairy Products:  
United States, 1979-98**

Year	Milk Marketed		Year	Milk Marketed	
	Total	Used for Dairy Products		Total	Used for Dairy Products
	<i>Million Lbs</i>	<i>Percent</i>		<i>Million Lbs</i>	<i>Percent</i>
1979	120,869	56	1989	142,163	59
1980	126,067	58	1990	146,275	61
1981	130,467	60	1991	146,459	60
1982	133,144	61	1992	149,670	62
1983	137,228	61	1993	148,746	61
1984	132,421	58	1994	151,965	60
1985	140,558	59	1995	153,849	60
1986	140,735	59	1996	152,769	60
1987	140,450	58	1997	155,174	60
1988	142,910	59	1998 <sup>1</sup>		

<sup>1</sup> Due to historic revisions, 1998 data is not available. Milk marketings will be published in the "Milk Production, Disposition and Income" release on May 21, 1999.

**Specified Products: Production by Month,  
United States, 1997, Revised**

Products	Plants	Jan	Feb	Mar	Apr
	<i>Number</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Butter	91	127,575	108,633	105,397	118,268
Cheese					
American Types					
Cheddar	189	224,930	217,003	231,382	226,319
Other American <sup>1</sup>	127	53,665	50,082	54,122	53,277
Total American	215	278,595	267,085	285,504	279,596
Swiss	42	17,926	15,564	16,857	17,891
Muenster	42	7,939	6,977	8,373	8,822
Brick	21	1,077	792	691	508
Limburger	1	36	65	57	45
Italian Varieties					
Mozzarella	133	183,897	181,496	197,908	183,094
Other Italian	92	51,683	47,312	56,579	49,856
Total Italian	156	235,580	228,808	254,487	232,950
Cream & Neufchatel	32	40,496	40,996	52,716	40,295
Blue <sup>2</sup>	10	3,216	3,354	3,904	3,474
Hispanic	26	5,240	5,868	5,748	5,726
All Other Types	94	8,061	7,654	9,689	9,234
Total Cheese <sup>3</sup>	412	598,166	577,163	638,026	598,541
Cottage Cheese					
Curd <sup>4</sup>	119	36,785	36,420	38,825	39,459
Creamed <sup>5</sup>	110	28,520	27,829	30,153	29,807
Lowfat <sup>6</sup>	106	27,080	26,950	30,313	28,680
Canned Milk					
Evaporated and Cond. Whole <sup>7</sup>	6	37,165	34,703	53,911	48,144
Evaporated Skim	3	1,113	2,067	2,459	1,631
Bulk Condensed Milk					
Whole					
Sweetened	6	10,145	10,150	9,060	11,166
Unsweetened	10	8,943	8,506	7,523	7,462
Skim					
Sweetened	6	3,805	3,823	3,717	4,013
Unsweetened	41	73,960	70,079	87,664	86,669
Condensed or Evaporated Buttermilk	6	2,795	2,339	2,845	2,939
Dry Milk					
Dry Whole Milk	16	10,527	10,327	10,039	6,910
Nonfat Dry Milk for Human Food	47	100,927	93,024	114,060	127,731
Dry Skim Milk for Animal Feed	31	549	316	476	477
Dry Buttermilk	27	6,254	4,833	4,418	5,400
Yogurt Plain & Fruit Flavored	105	138,866	128,466	137,611	134,550

See footnotes at end of table.

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**Specified Products: Production by Month,  
United States, 1997, Revised (continued)**

Products	May	Jun	Jul	Aug	Sep
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Butter	102,735	82,017	80,040	68,812	79,346
Cheese					
American Types					
Cheddar	239,737	233,160	229,228	206,761	208,094
Other American <sup>1</sup>	54,932	53,051	56,083	53,265	53,146
Total American	294,669	286,211	285,311	260,026	261,240
Swiss	18,842	18,451	18,044	16,968	16,105
Muenster	8,631	8,195	8,825	8,725	8,513
Brick	568	583	770	854	668
Limburger	76	54	42	62	95
Italian Varieties					
Mozzarella	200,179	188,408	188,811	189,524	179,054
Other Italian	51,321	49,220	49,503	51,221	55,860
Total Italian	251,500	237,628	238,314	240,745	234,914
Cream & Neufchatel	48,589	53,232	43,629	49,702	61,922
Blue <sup>2</sup>	3,437	4,163	2,917	3,085	3,837
Hispanic	5,798	5,251	5,756	6,077	5,988
All Other Types	9,921	9,776	10,380	10,312	10,994
Total Cheese <sup>3</sup>	642,031	623,544	613,988	596,556	604,276
Cottage Cheese					
Curd <sup>4</sup>	40,566	38,294	39,059	39,024	40,600
Creamed <sup>5</sup>	31,538	29,863	32,223	32,038	31,408
Lowfat <sup>6</sup>	30,663	28,527	30,930	29,798	31,217
Canned Milk					
Evaporated and Cond. Whole <sup>7</sup>	47,427	50,718	43,165	39,895	41,492
Evaporated Skim	2,119	2,254	1,721	2,875	2,648
Bulk Condensed Milk					
Whole					
Sweetened	11,029	13,540	13,619	13,761	13,255
Unsweetened	7,584	7,279	8,008	8,309	7,592
Skim					
Sweetened	3,860	3,728	7,090	4,238	3,828
Unsweetened	92,521	94,818	94,552	90,955	85,495
Condensed or Evaporated					
Buttermilk	3,091	2,282	2,268	1,794	2,137
Dry Milk					
Dry Whole Milk	9,450	9,867	10,964	11,332	11,508
Nonfat Dry Milk for Human Food	132,711	120,065	111,669	90,237	77,354
Dry Skim Milk for Animal Feed	526	615	455	514	347
Dry Buttermilk	4,664	2,824	3,009	2,723	3,087
Yogurt Plain & Fruit Flavored	134,627	139,271	127,120	132,200	151,572

See footnotes at end of table.

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**Specified Products: Production by Month,  
United States, 1997, Revised (continued)**

Products	Oct	Nov	Dec	Total
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Butter	83,326	89,131	105,970	1,151,250
Cheese				
American Types				
Cheddar	205,470	194,021	223,776	2,639,881
Other American <sup>1</sup>	54,569	54,619	54,866	645,677
Total American	260,039	248,640	278,642	3,285,558
Swiss	16,442	15,904	18,589	207,583
Muenster	9,093	7,730	8,368	100,191
Brick	578	617	829	8,535
Limburger	55	79	80	746
Italian Varieties				
Mozzarella	181,459	181,956	189,260	2,245,046
Other Italian	57,460	57,629	58,755	636,399
Total Italian	238,919	239,585	248,015	2,881,445
Cream & Neufchatel	68,751	61,298	53,295	614,921
Blue <sup>2</sup>	3,476	4,588	3,322	42,773
Hispanic	6,084	5,231	6,066	68,833
All Other Types	12,132	10,966	10,710	119,829
Total Cheese <sup>3</sup>	615,569	594,638	627,916	7,330,414
Cottage Cheese				
Curd <sup>4</sup>	39,598	34,775	35,055	458,460
Creamed <sup>5</sup>	31,097	27,514	27,535	359,525
Lowfat <sup>6</sup>	30,246	26,668	25,615	346,687
Canned Milk				
Evaporated and Cond. Whole <sup>7</sup>	48,910	56,606	46,993	549,129
Evaporated Skim	4,171	4,394	2,384	29,836
Bulk Condensed Milk				
Whole				
Sweetened	12,695	9,688	6,528	134,636
Unsweetened	8,604	7,601	6,440	93,851
Skim				
Sweetened	3,553	3,095	1,597	46,347
Unsweetened	75,793	72,689	74,994	1,000,189
Condensed or Evaporated Buttermilk	2,327	2,273	3,777	30,867
Dry Milk				
Dry Whole Milk	12,525	8,377	10,265	122,091
Nonfat Dry Milk for Human Food	72,550	75,228	102,006	1,217,562
Dry Skim Milk for Animal Feed	319	357	340	5,291
Dry Buttermilk	4,161	3,455	4,480	49,308
Yogurt Plain & Fruit Flavored	125,651	108,874	115,242	1,574,050

<sup>1</sup> Includes Colby, Monterey, and Jack.

<sup>2</sup> Includes Gorgonzola.

<sup>3</sup> Excluding cottage cheese.

<sup>4</sup> Mostly used for processing into creamed or lowfat cottage cheese.

<sup>5</sup> Fat content 4.0 percent or more.

<sup>6</sup> Fat content less than 4.0 percent, mostly 0.5 to 2.0 fat.

<sup>7</sup> Combined to avoid disclosing individual plant operations.



**Specified Products: Production by Month,  
United States, 1998**

Products	Plants	Jan	Feb	Mar	Apr
	<i>Number</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Butter	86	117,810	105,687	106,688	107,072
Cheese					
American Types					
Cheddar	179	230,226	207,423	227,164	231,964
Other American <sup>1</sup>	122	53,780	54,286	57,124	56,051
Total American	202	284,006	261,709	284,288	288,015
Swiss	42	18,801	17,111	17,894	18,170
Muenster	39	8,345	7,271	8,245	8,041
Brick	22	591	416	641	544
Limburger	1	87	57	80	58
Italian Varieties					
Mozzarella	124	187,870	180,746	205,325	198,395
Other Italian	96	56,457	48,282	56,463	55,160
Total Italian	152	244,327	229,028	261,788	253,555
Cream & Neufchatel	31	43,502	41,122	53,073	49,785
Blue <sup>2</sup>	12	3,053	3,161	3,375	3,898
Hispanic	25	5,875	5,844	7,029	6,802
All Other Types	97	8,851	8,429	10,152	10,209
Total Cheese <sup>3</sup>	398	617,438	574,148	646,565	639,077
Cottage Cheese					
Curd <sup>4</sup>	114	36,813	36,268	40,682	38,616
Creamed <sup>5</sup>	107	29,110	28,299	31,774	30,366
Lowfat <sup>6</sup>	102	28,613	28,122	31,322	30,762
Canned Milk					
Evaporated and Cond. Whole <sup>7</sup>	8	43,300	34,974	36,198	31,255
Evaporated Skim	3	800	1,112	1,898	1,561
Bulk Condensed Milk					
Whole					
Sweetened	6	8,432	7,244	7,553	6,466
Unsweetened	13	8,268	7,544	8,267	7,575
Skim					
Sweetened	6	3,188	2,267	3,041	2,621
Unsweetened	46	75,950	74,658	94,731	94,016
Condensed or Evaporated Buttermilk	6	3,932	2,521	2,860	2,309
Dry Milk					
Dry Whole Milk	15	12,792	10,156	11,797	11,235
Nonfat Dry Milk for Human Food	48	104,796	98,435	106,702	119,740
Dry Skim Milk for Animal Feed	29	338	441	435	506
Dry Buttermilk	28	6,739	5,431	5,158	5,105
Yogurt Plain & Fruit Flavored	90	129,162	134,948	162,135	131,304

See footnotes at end of table.

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**Specified Products: Production by Month,  
United States, 1998 (continued)**

Products	May	Jun	Jul	Aug	Sep
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Butter	92,553	69,886	63,766	64,254	68,218
Cheese					
American Types					
Cheddar	243,230	227,815	219,739	206,666	189,518
Other American <sup>1</sup>	55,277	60,020	57,999	54,644	55,395
Total American	298,507	287,835	277,738	261,310	244,913
Swiss	18,547	18,307	18,573	17,680	16,397
Muenster	8,748	8,725	7,559	7,077	6,895
Brick	568	706	558	639	756
Limburger	112	50	65	89	39
Italian Varieties					
Mozzarella	206,571	198,521	192,730	190,823	185,248
Other Italian	52,442	53,476	48,614	50,227	48,302
Total Italian	259,013	251,997	241,344	241,050	233,550
Cream & Neufchatel	47,041	54,283	43,540	50,494	59,994
Blue <sup>2</sup>	3,551	3,493	4,144	3,754	3,957
Hispanic	6,096	5,962	6,715	5,917	6,291
All Other Types	10,371	10,712	9,851	10,634	11,320
Total Cheese <sup>3</sup>	652,554	642,070	610,087	598,644	584,112
Cottage Cheese					
Curd <sup>4</sup>	38,549	40,624	41,247	40,151	41,018
Creamed <sup>5</sup>	30,484	31,405	34,197	32,138	31,842
Lowfat <sup>6</sup>	30,510	31,669	32,367	30,179	32,896
Canned Milk					
Evaporated and Cond. Whole <sup>7</sup>	39,355	47,315	38,502	38,009	31,888
Evaporated Skim	2,406	1,492	2,499	3,322	3,421
Bulk Condensed Milk					
Whole					
Sweetened	6,514	6,807	8,697	6,856	6,415
Unsweetened	7,676	7,928	9,206	9,211	8,061
Skim					
Sweetened	3,728	4,062	4,126	4,055	3,686
Unsweetened	95,545	99,516	96,547	92,160	88,147
Condensed or Evaporated					
Buttermilk	2,168	2,262	1,760	2,076	1,969
Dry Milk					
Dry Whole Milk	11,994	14,140	11,911	12,673	11,391
Nonfat Dry Milk for Human Food	119,730	99,418	85,661	78,842	62,306
Dry Skim Milk for Animal Feed	462	525	436	393	321
Dry Buttermilk	5,176	3,433	2,976	2,882	2,566
Yogurt Plain & Fruit Flavored	135,411	150,577	122,658	131,065	150,204

See footnotes at end of table.

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**Specified Products: Production by Month,  
United States, 1998 (continued)**

Products	Oct	Nov	Dec	Total
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Butter	88,497	91,128	106,320	1,081,879
Cheese				
American Types				
Cheddar	205,430	215,065	240,789	2,645,029
Other American <sup>1</sup>	61,410	55,495	59,326	680,807
Total American	266,840	270,560	300,115	3,325,836
Swiss	15,188	14,130	15,610	206,408
Muenster	8,547	8,006	7,156	94,615
Brick	673	577	909	7,578
Limburger	49	104	75	865
Italian Varieties				
Mozzarella	200,272	206,800	210,868	2,364,169
Other Italian	55,477	55,754	56,283	636,937
Total Italian	255,749	262,554	267,151	3,001,106
Cream & Neufchatel	62,700	60,369	57,641	623,544
Blue <sup>2</sup>	4,514	3,568	3,476	43,944
Hispanic	6,518	6,550	6,394	75,993
All Other Types	11,359	10,164	9,962	122,014
Total Cheese <sup>3</sup>	632,137	636,582	668,489	7,501,903
Cottage Cheese				
Curd <sup>4</sup>	39,135	36,230	35,556	464,889
Creamed <sup>5</sup>	30,438	28,004	28,704	366,761
Lowfat <sup>6</sup>	30,248	28,058	27,130	361,876
Canned Milk				
Evaporated and Cond. Whole <sup>7</sup>	43,805	47,420	36,049	468,070
Evaporated Skim	3,635	4,668	1,887	28,701
Bulk Condensed Milk				
Whole				
Sweetened	6,411	5,225	3,146	79,766
Unsweetened	6,073	5,246	6,627	91,682
Skim				
Sweetened	3,246	2,535	1,255	37,810
Unsweetened	82,521	80,894	81,009	1,055,694
Condensed or Evaporated Buttermilk	2,186	2,540	3,188	29,771
Dry Milk				
Dry Whole Milk	13,888	10,839	9,707	142,523
Nonfat Dry Milk for Human Food	75,039	73,851	110,863	1,135,383
Dry Skim Milk for Animal Feed	281	270	362	4,770
Dry Buttermilk	3,665	3,905	5,241	52,277
Yogurt Plain & Fruit Flavored	130,788	115,937	121,849	1,616,038

<sup>1</sup> Includes Colby, Monterey, and Jack.

<sup>2</sup> Includes Gorgonzola.

<sup>3</sup> Excluding cottage cheese.

<sup>4</sup> Mostly used for processing into creamed or lowfat cottage cheese.

<sup>5</sup> Fat content 4.0 percent or more.

<sup>6</sup> Fat content less than 4.0 percent, mostly 0.5 to 2.0 fat.

<sup>7</sup> Combined to avoid disclosing individual plant operations.

**Frozen Products: Production by Month,  
United States, 1997, Revised**

Products	Plants	Jan	Feb	Mar	Apr
	<i>Number</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>
Frozen Products					
Ice Cream					
Regular, Total		65,092	69,100	79,112	83,167
Regular, Hard	460	60,822	64,592	73,945	77,569
Lowfat, Total <sup>1</sup>		25,817	27,673	34,672	32,985
Lowfat, Hard	231	8,216	8,417	10,836	8,751
Nonfat, Total		2,532	2,974	3,346	3,691
Nonfat, Hard	122	2,305	2,608	2,953	3,146
Sherbet, Total		3,660	3,965	4,552	4,870
Hard	283	3,479	3,757	4,311	4,616
Yogurt, Total		5,103	7,913	9,344	8,880
Regular & Lowfat, Hard	199	2,921	3,669	3,603	3,602
Nonfat, Hard	109	1,645	1,949	2,677	2,956
Other Frozen					
Dairy Products <sup>2</sup>	48	852	938	1,147	1,041
Water and Juice Ices <sup>2</sup>	160	4,800	5,510	6,301	8,372
Mix for Products					
Ice Cream, Regular Mix	360	33,794	35,445	41,219	42,719
Ice Cream, Lowfat Mix <sup>3</sup>	317	13,540	14,616	18,461	18,244
Ice Cream, Nonfat, Mix	117	1,308	1,608	1,884	2,009
Sherbet Mix	228	2,502	2,691	2,979	3,115
Yogurt Mix		3,230	5,008	5,914	5,620
	May	Jun	Jul	Aug	Sep
	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>
Frozen Products					
Ice Cream					
Regular, Total	87,175	92,377	92,996	83,300	73,202
Regular, Hard	81,294	86,244	86,596	77,673	68,668
Lowfat, Total <sup>1</sup>	37,493	40,343	40,916	37,694	31,540
Lowfat, Hard	9,309	10,569	9,640	9,712	8,500
Nonfat, Total	3,719	4,445	5,176	3,509	3,370
Nonfat, Hard	3,299	4,024	4,728	3,118	3,010
Sherbet, Total	5,790	5,463	5,622	4,842	4,098
Hard	5,515	5,186	5,317	4,585	3,847
Yogurt, Total	8,848	9,311	10,087	8,192	8,112
Regular & Lowfat, Hard	3,506	3,869	3,522	3,158	3,412
Nonfat, Hard	2,295	2,720	2,520	2,144	2,249
Other Frozen					
Dairy Products <sup>2</sup>	1,206	1,337	1,555	1,297	1,039
Water and Juice Ices <sup>2</sup>	7,708	8,263	8,346	6,448	4,922
Mix for Products					
Ice Cream, Regular Mix	45,198	47,886	49,269	43,797	37,902
Ice Cream, Lowfat Mix <sup>3</sup>	21,077	22,392	23,412	21,003	17,948
Ice Cream, Nonfat Mix	1,902	2,274	2,599	1,856	1,826
Sherbet Mix	3,689	3,594	3,691	3,163	2,819
Yogurt Mix	5,600	5,893	6,384	5,185	5,134

See footnotes at end of table.

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**Frozen Products: Production by Month,  
United States, 1997, Revised**

Product	Oct	Nov	Dec	Total
	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>
Frozen Products				
Ice Cream				
Regular, Total	71,786	58,337	58,126	913,770
Regular, Hard	67,552	54,669	54,455	854,079
Lowfat, Total <sup>1</sup>	29,400	23,511	23,645	385,689
Lowfat, Hard	8,247	7,001	6,405	105,603
Nonfat, Total	2,992	2,436	2,450	40,640
Nonfat, Hard	2,725	2,203	2,190	36,309
Sherbet, Total	3,761	3,149	3,305	53,077
Hard	3,528	2,959	3,127	50,227
Yogurt, Total	6,579	5,135	4,663	92,166
Regular & Lowfat, Hard	2,650	2,105	1,977	37,994
Nonfat, Hard	1,831	1,491	1,494	25,971
Other Frozen				
Dairy Products <sup>2</sup>	1,016	654	749	12,831
Water and Juice Ices <sup>2</sup>	3,918	3,579	2,708	70,875
Mix for Products				
Ice Cream, Regular Mix	36,990	30,193	29,318	473,730
Ice Cream, Lowfat Mix <sup>3</sup>	16,646	13,129	13,803	214,271
Ice Cream, Nonfat, Mix	1,673	1,264	1,263	21,466
Sherbet Mix	2,716	2,266	2,313	35,538
Yogurt Mix	4,164	3,250	2,951	58,333

<sup>1</sup> Includes freezer-made milkshake.

<sup>2</sup> Plant count does not include counter-freezers.

<sup>3</sup> Includes milkshake mix.

**Frozen Products: Production by Month,  
United States, 1998**

Products	Plants	Jan	Feb	Mar	Apr
	<i>Number</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>
Frozen Products					
Ice Cream					
Regular, Total		65,866	72,662	84,605	88,156
Regular, Hard	457	60,756	67,219	78,283	81,406
Lowfat, Total <sup>1</sup>		24,961	27,505	34,767	37,631
Lowfat, Hard	232	6,714	7,352	9,392	9,187
Nonfat, Total		3,402	3,378	4,112	3,852
Nonfat, Hard	115	3,135	3,049	3,771	3,459
Sherbet, Total		3,715	4,055	4,978	5,091
Hard	281	3,465	3,654	4,519	4,585
Yogurt, Total		5,998	6,524	8,259	8,055
Regular & Lowfat, Hard	173	1,921	2,550	2,784	2,707
Nonfat, Hard	106	1,913	1,666	2,255	2,270
Other Frozen					
Dairy Products <sup>2</sup>	48	1,180	1,111	1,293	1,434
Water and Juice Ices <sup>2</sup>	165	5,081	5,523	6,620	6,940
Mix for Products					
Ice Cream, Regular Mix	356	34,265	37,234	43,254	45,502
Ice Cream, Lowfat Mix <sup>3</sup>	309	13,152	14,517	18,490	20,445
Ice Cream, Nonfat, Mix	115	1,831	1,765	2,243	2,081
Sherbet Mix	234	2,501	2,574	3,144	3,312
Yogurt Mix		3,796	4,129	5,227	5,098
	May	Jun	Jul	Aug	Sep
	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>
Frozen Products					
Ice Cream					
Regular, Total	87,349	96,495	94,223	83,607	78,906
Regular, Hard	80,569	88,896	86,715	77,070	72,851
Lowfat, Total <sup>1</sup>	40,951	45,254	44,175	39,762	34,602
Lowfat, Hard	9,026	10,508	9,776	8,916	8,758
Nonfat, Total	4,117	4,418	4,010	3,787	3,434
Nonfat, Hard	3,593	3,931	3,552	3,388	3,127
Sherbet, Total	5,288	6,045	6,050	5,532	4,438
Hard	4,832	5,466	5,466	5,017	4,013
Yogurt, Total	7,663	8,219	8,466	7,584	8,641
Regular & Lowfat, Hard	2,715	2,642	2,745	2,746	2,794
Nonfat, Hard	1,917	2,422	2,570	2,190	1,894
Other Frozen					
Dairy Products <sup>2</sup>	1,173	1,414	1,508	1,082	1,439
Water and Juice Ices <sup>2</sup>	8,625	8,876	8,734	7,215	4,907
Mix for Products					
Ice Cream, Regular Mix	45,513	50,069	49,652	43,482	40,344
Ice Cream, Lowfat Mix <sup>3</sup>	23,127	24,943	24,881	22,533	19,484
Ice Cream, Nonfat Mix	2,322	2,364	2,219	2,088	1,870
Sherbet Mix	3,415	3,891	4,035	3,517	2,862
Yogurt Mix	4,850	5,202	5,358	4,800	5,469

See footnotes at end of table.

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**Frozen Products: Production by Month,  
United States, 1998**

Product	Oct	Nov	Dec	Total
	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>
Frozen Products				
Ice Cream				
Regular, Total	70,502	55,678	59,436	937,485
Regular, Hard	64,844	51,471	55,458	865,538
Lowfat, Total <sup>1</sup>	29,060	24,739	25,911	409,318
Lowfat, Hard	7,687	6,724	6,954	100,994
Nonfat, Total	3,230	2,719	2,646	43,105
Nonfat, Hard	2,917	2,483	2,379	38,784
Sherbet, Total	3,936	3,455	3,782	56,365
Hard	3,547	3,102	3,368	51,034
Yogurt, Total	6,783	5,829	5,756	87,777
Regular & Lowfat, Hard	2,657	1,991	2,349	30,601
Nonfat, Hard	1,749	1,413	1,274	23,533
Other Frozen				
Dairy Products <sup>2</sup>	1,391	1,078	825	14,928
Water and Juice Ices <sup>2</sup>	4,655	3,363	2,843	73,382
Mix for Products				
Ice Cream, Regular Mix	36,328	29,008	29,922	484,573
Ice Cream, Lowfat Mix <sup>3</sup>	16,258	13,996	14,566	226,392
Ice Cream, Nonfat, Mix	1,746	1,469	1,402	23,400
Sherbet Mix	2,532	2,208	2,338	36,329
Yogurt Mix	4,293	3,689	3,643	55,554

<sup>1</sup> Includes freezer-made milkshake.

<sup>2</sup> Plant count does not include counter-freezers.

<sup>3</sup> Includes milkshake mix.

**Whey and Modified Whey Products: Production by Month,  
United States, 1997, Revised**

Products	Plants	Jan	Feb	Mar	Apr
	<i>Number</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Condensed Whey Solids Content <sup>1</sup>					
Sweet Type					
Human Food	11	13,668	14,763	14,623	13,600
Animal Feed	4	2,104	2,118	2,022	2,045
Dry Whey Products					
Human Food	47	86,420	82,117	91,447	87,565
Animal Feed	40	5,374	5,048	5,183	5,956
Reduced Lactose and Minerals					
Human Food	7	5,836	5,618	6,172	5,379
Animal Feed	6	2,415	2,309	2,496	2,481
Whey					
Solids in Wet Blends, Animal	3	6,259	6,337	5,206	5,545
Protein Concentrate, Human	27	19,820	18,867	20,816	20,080
Protein Concentrate, Animal	12	2,663	2,649	3,039	2,996
Lactose, Human and Animal	26	33,406	35,550	36,071	36,303

See footnotes at end of table.

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**Manufacturers' Whey Stocks and Selling Prices: Production by Month,  
United States, 1997, Revised**

Products	Jan	Feb	Mar	Apr
	<b>Manufacturers' Stocks End-of-Month<sup>1</sup></b>			
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Dry Whey Products				
Dry Whey, Human	29,264	28,687	32,200	27,868
Dry Whey, Animal	3,256	3,698	4,182	5,745
Reduced Lactose and Minerals				
Human and Animal	6,587	6,972	12,834	12,436
Lactose, Human and Animal <sup>2</sup>	16,849	17,425	19,559	19,916
Whey Protein Concentrate, Human	8,432	7,114	8,766	8,782
Whey Protein Concentrate, Animal	585	537	540	726
	<b>Manufacturers' Selling Prices<sup>3</sup></b>			
	<i>Cents per Pound</i>	<i>Cents per Pound</i>	<i>Cents per Pound</i>	<i>Cents per Pound</i>
Dry Whey, Human	18.2	19.1	20.0	19.3
Dry Whey, Animal	17.5	18.3	19.5	17.0

See footnotes at end of table.

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**Whey and Modified Whey Products: Production by Month,  
United States, 1997, Revised (continued)**

Products	May	Jun	Jul	Aug	Sep
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Condensed Whey Solids Content <sup>1</sup>					
Sweet Type					
Human Food	17,142	15,479	8,843	8,586	9,291
Animal Feed	2,235	2,337	2,290	2,244	2,239
Dry Whey Products					
Human Food	96,932	94,594	96,430	89,143	85,514
Animal Feed	5,330	6,897	5,267	4,013	4,167
Reduced Lactose and Minerals					
Human Food	4,984	4,718	4,343	4,556	4,337
Animal Feed	2,720	2,642	2,411	2,400	2,277
Whey					
Solids in Wet Blends, Animal	6,559	5,699	5,780	7,000	5,007
Protein Concentrate, Human	19,708	18,595	17,672	16,882	17,859
Protein Concentrate, Animal	3,060	2,947	2,966	2,852	2,860
Lactose, Human and Animal	41,338	40,087	40,210	39,355	33,058

See footnotes at end of table.

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**Manufacturers' Whey Stocks and Selling Prices: Production by Month,  
United States, 1997, Revised (continued)**

Products	May	Jun	Jul	Aug	Sep
	<b>Manufacturers' Stocks End-of-Month<sup>1</sup></b>				
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Dry Whey Products					
Dry Whey, Human	31,970	29,405	34,309	30,862	29,446
Dry Whey, Animal	4,437	4,528	3,443	2,581	2,484
Reduced Lactose and Minerals					
Human and Animal <sup>2</sup>	12,940	13,232	13,127	12,724	11,279
Lactose, Human and Animal	22,859	24,289	25,837	24,445	23,588
Whey Protein Concentrate, Human	10,727	7,832	8,437	8,280	8,797
Whey Protein Concentrate, Animal	811	738	988	1,095	1,117
	<b>Manufacturers' Selling Prices<sup>3</sup></b>				
	<i>Cents per Pound</i>	<i>Cents per Pound</i>	<i>Cents per Pound</i>	<i>Cents per Pound</i>	<i>Cents per Pound</i>
Dry Whey, Human	18.1	18.3	20.2	21.4	22.6
Dry Whey, Animal	16.8	17.9	19.9	20.6	21.8

See footnotes at end of table.

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**Whey and Modified Whey Products: Production by Month,  
United States, 1997, Revised (continued)**

Products	Oct	Nov	Dec	Total
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Condensed Whey Solids Content <sup>1</sup>				
Sweet Type				
Human Food	7,425	6,565	9,807	139,792
Animal Feed	2,023	1,789	2,263	25,709
Dry Whey Products				
Human Food	88,439	82,368	95,560	1,076,529
Animal Feed	4,012	3,516	5,532	60,295
Reduced Lactose and Minerals				
Human Food	4,798	4,432	4,951	60,124
Animal Feed	2,538	2,339	2,397	29,425
Whey				
Solids in Wet Blends, Animal	5,076	2,500	2,331	63,299
Protein Concentrate, Human	17,250	18,984	21,733	228,266
Protein Concentrate, Animal	3,132	3,093	3,518	35,775
Lactose, Human and Animal	32,857	31,589	34,897	434,721

<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 dry whey products.

**Manufacturers' Whey Stocks and Selling Prices: Production by Month,  
United States, 1997, Revised (continued)**

Products	Oct	Nov	Dec
	Manufacturers' Stocks End-of-Month <sup>1</sup>		
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Dry Whey Products			
Dry Whey, Human	27,305	26,905	32,489
Dry Whey, Animal	2,728	2,372	2,015
Reduced Lactose and Minerals			
Human and Animal <sup>2</sup>	8,983	9,249	9,075
Lactose, Human and Animal	21,971	19,387	20,927
Whey Protein Concentrate, Human	8,510	8,771	11,451
Whey Protein Concentrate, Animal	1,348	1,268	929
	Manufacturers' Selling Prices <sup>3</sup>		
	<i>Cents per Pound</i>	<i>Cents per Pound</i>	<i>Cents per Pound</i>
Dry Whey, Human	26.6	27.4	29.2
Dry Whey, Animal	25.2	27.3	27.9

<sup>1</sup> Stocks held by manufacturers at all points and in transit.

<sup>2</sup> Reduced lactose and minerals stocks combined to avoid disclosure of individual operations.

<sup>3</sup> Prices for bulk goods, f.o.b. plant. Average monthly prices reported by firms.

**Whey and Modified Whey Products: Production by Month,  
United States, 1998**

Products	Plants	Jan	Feb	Mar	Apr
	<i>Number</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Condensed Whey Solids Content <sup>1</sup>					
Sweet Type					
Human Food	10	9,387	8,443	9,501	11,021
Animal Feed	5	2,336	2,175	2,293	1,849
Dry Whey Products					
Human Food	49	93,069	87,825	92,256	90,153
Animal Feed	39	7,001	5,709	6,626	8,664
Reduced Lactose and Minerals					
Human Food	10	5,570	5,037	6,016	6,584
Animal Feed	6	2,640	2,540	2,647	2,545
Whey					
Solids in Wet Blends, Animal	3	1,890	3,682	3,474	3,282
Protein Concentrate, Human	32	18,545	18,535	20,129	20,097
Protein Concentrate, Animal	13	3,011	3,100	3,300	3,279
Lactose, Human and Animal	29	38,660	35,155	42,604	40,260

See footnotes at end of table.

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**Manufacturers' Whey Stocks and Selling Prices: Production by Month,  
United States, 1998**

Products	Jan	Feb	Mar	Apr
	<b>Manufacturers' Stocks End-of-Month<sup>1</sup></b>			
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Dry Whey Products				
Dry Whey, Human	34,055	33,809	32,148	30,074
Dry Whey, Animal	2,727	2,952	2,956	5,000
Reduced Lactose and Minerals				
Human and Animal <sup>2</sup>	8,609	7,781	7,386	8,381
Lactose, Human and Animal	21,069	20,529	24,210	27,565
Whey Protein Concentrate, Human	11,168	10,170	11,029	11,751
Whey Protein Concentrate, Animal	1,311	1,155	1,003	1,393
	<b>Manufacturers' Selling Prices<sup>3</sup></b>			
	<i>Cents per Pound</i>	<i>Cents per Pound</i>	<i>Cents per Pound</i>	<i>Cents per Pound</i>
Dry Whey, Human	26.3	23.2	22.9	21.6
Dry Whey, Animal	26.4	22.8	22.1	20.5

See footnotes at end of table.

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**Whey and Modified Whey Products: Production by Month,  
United States, 1998 (continued)**

Products	May	Jun	Jul	Aug	Sep
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Condensed Whey Solids Content <sup>1</sup>					
Sweet Type					
Human Food	10,021	9,986	9,738	7,892	7,034
Animal Feed	1,907	2,234	2,414	1,762	1,782
Dry Whey Products					
Human Food	97,965	96,332	98,391	92,607	83,103
Animal Feed	7,696	8,303	6,376	6,614	6,455
Reduced Lactose and Minerals					
Human Food	6,204	5,718	6,627	5,747	5,971
Animal Feed	2,837	2,885	2,816	3,006	2,680
Whey					
Solids in Wet Blends, Animal	3,675	2,949	2,387	3,736	2,828
Protein Concentrate, Human	21,776	20,257	22,304	20,808	19,806
Protein Concentrate, Animal	3,512	3,284	3,828	3,485	2,820
Lactose, Human and Animal	41,097	38,677	41,043	39,098	36,748

See footnotes at end of table.

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**Manufacturers' Whey Stocks and Selling Prices: Production by Month,  
United States, 1998 (continued)**

Products	May	Jun	Jul	Aug	Sep
	<b>Manufacturers' Stocks End-of-Month<sup>1</sup></b>				
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Dry Whey Products					
Dry Whey, Human	29,710	33,565	36,616	37,637	36,420
Dry Whey, Animal	4,433	3,741	3,664	3,755	3,681
Reduced Lactose and Minerals					
Human and Animal <sup>2</sup>	9,668	11,640	12,255	12,106	12,182
Lactose, Human and Animal	32,694	34,328	32,988	31,050	28,205
Whey Protein Concentrate, Human	11,646	12,542	13,071	11,877	10,938
Whey Protein Concentrate, Animal	1,653	1,173	1,097	1,066	1,000
	<b>Manufacturers' Selling Prices<sup>3</sup></b>				
	<i>Cents per Pound</i>	<i>Cents per Pound</i>	<i>Cents per Pound</i>	<i>Cents per Pound</i>	<i>Cents per Pound</i>
Dry Whey, Human	21.7	23.5	25.4	26.0	27.1
Dry Whey, Animal	21.4	22.5	23.9	25.4	26.7

See footnotes at end of table.

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**Whey and Modified Whey Products: Production by Month,  
United States, 1998 (continued)**

Products	Oct	Nov	Dec	Total
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Condensed Whey Solids Content <sup>1</sup>				
Sweet Type				
Human Food	6,724	4,308	5,131	99,186
Animal Feed	1,357	1,213	1,398	22,720
Dry Whey Products				
Human Food	83,601	85,466	94,615	1,095,383
Animal Feed	7,175	6,619	7,203	84,441
Reduced Lactose and Minerals				
Human Food	5,716	6,499	6,806	72,495
Animal Feed	2,744	2,520	2,789	32,649
Whey				
Solids in Wet Blends, Animal	3,130	3,074	3,234	37,341
Protein Concentrate, Human	20,940	20,396	24,357	247,950
Protein Concentrate, Animal	3,332	3,500	3,585	40,036
Lactose, Human and Animal	36,812	39,667	39,128	468,949

<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 dry whey products.

**Manufacturers' Whey Stocks and Selling Prices: Production by Month,  
United States, 1998 (continued)**

Products	Oct	Nov	Dec
	Manufacturers' Stocks End-of-Month <sup>1</sup>		
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Dry Whey Products			
Dry Whey, Human	32,509	32,608	44,590
Dry Whey, Animal	4,802	4,500	4,835
Reduced Lactose and Minerals			
Human and Animal <sup>2</sup>	10,393	10,445	9,856
Lactose, Human and Animal	26,364	28,385	27,053
Whey Protein Concentrate, Human	12,878	13,436	16,049
Whey Protein Concentrate, Animal	1,429	2,632	1,548
	Manufacturers' Selling Prices <sup>3</sup>		
	<i>Cents per Pound</i>	<i>Cents per Pound</i>	<i>Cents per Pound</i>
Dry Whey, Human	25.7	24.7	24.5
Dry Whey, Animal	24.1	23.1	22.5

<sup>1</sup> Stocks held by manufacturers at all points and in transit.

<sup>2</sup> Reduced lactose and minerals stocks combined to avoid disclosure of individual operations.

<sup>3</sup> Prices for bulk goods, f.o.b. plant. Average monthly prices reported by firms.

**Canned Milk and Dry Milk Products: Manufacturers' Shipments, Stocks,  
and Selling Prices, by Month, United States, 1997**

Products	Jan	Feb	Mar	Apr	May	Jun
	<b>Manufacturers' Shipments <sup>1</sup></b>					
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Dry Whole Milk	6,551	7,302	6,519	6,594	5,180	8,091
Nonfat Dry Milk, Human	82,965	84,406	96,490	77,574	84,814	87,828
Dry Skim Milk, Animal	772	368	673	533	450	657
Dry Buttermilk, Human	5,099	3,040	2,872	2,780	2,218	2,094
	<b>Manufacturers' Stocks End-of-Month <sup>2</sup></b>					
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Canned Evaporated and Condensed Whole Milk	20,640	20,422	24,929	26,132	34,842	42,769
Dry Whole Milk	7,863	4,770	5,203	4,267	6,161	5,131
Nonfat Dry Milk, Human	75,498	71,227	80,345	118,490	151,167	173,276
Dry Skim Milk, Animal	759	767	681	624	880	1,181
Dry Buttermilk, Total	2,606	2,276	3,089	3,648	4,280	4,375
	<b>Manufacturers' Selling Prices <sup>3</sup></b>					
	<i>Cents per Pound</i>	<i>Cents per Pound</i>	<i>Cents per Pound</i>	<i>Cents per Pound</i>	<i>Cents per Pound</i>	<i>Cents per Pound</i>
Dry Whole Milk	117.88	119.99	123.28	125.77	116.91	111.74
Nonfat Dry Milk, Human	111.53	111.26	113.08	112.26	108.77	106.42
Dry Skim Milk, Animal	65.62	56.36	54.67	57.75	58.21	62.72
Dry Buttermilk, Human	90.85	94.24	102.71	105.38	108.45	107.49
	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>
	<b>Manufacturers' Shipments <sup>1</sup></b>					
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Dry Whole Milk	8,262	9,579	7,090	9,905	7,662	6,569
Nonfat Dry Milk, Human	101,245	78,238	91,508	82,740	77,335	80,318
Dry Skim Milk, Animal	842	588	423	392	379	159
Dry Buttermilk, Human	2,832	2,101	2,015	2,793	3,220	2,920
	<b>Manufacturers' Stocks End-of-Month <sup>2</sup></b>					
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Canned Evaporated and Condensed Whole Milk	36,901	40,186	44,614	32,117	28,875	31,397
Dry Whole Milk	5,828	4,539	5,766	5,023	3,968	5,605
Nonfat Dry Milk, Human	158,714	154,550	133,937	114,764	100,615	103,326
Dry Skim Milk, Animal	1,161	1,279	1,389	976	970	791
Dry Buttermilk, Total	3,502	3,205	2,814	2,304	3,205	3,569
	<b>Manufacturers' Selling Prices <sup>3</sup></b>					
	<i>Cents per Pound</i>	<i>Cents per Pound</i>	<i>Cents per Pound</i>	<i>Cents per Pound</i>	<i>Cents per Pound</i>	<i>Cents per Pound</i>
Dry Whole Milk	113.36	112.33	116.75	117.83	118.90	120.68
Nonfat Dry Milk, Human	106.15	105.46	104.87	105.38	105.49	104.58
Dry Skim Milk, Animal	53.91	61.14	63.37	59.75	62.81	57.90
Dry Buttermilk, Human	106.84	109.88	101.10	104.60	99.35	97.28

<sup>1</sup> For dry products, shipments of bulk goods only.

<sup>2</sup> Stocks held by manufacturers at all points and in transit.

<sup>3</sup> Prices for bulk goods, f.o.b. plant. Average monthly prices reported by firms, weighted by shipments of each firm.

**Canned Milk and Dry Milk Products: Manufacturers' Shipments, Stocks,  
and Selling Prices, by Month, United States, 1998**

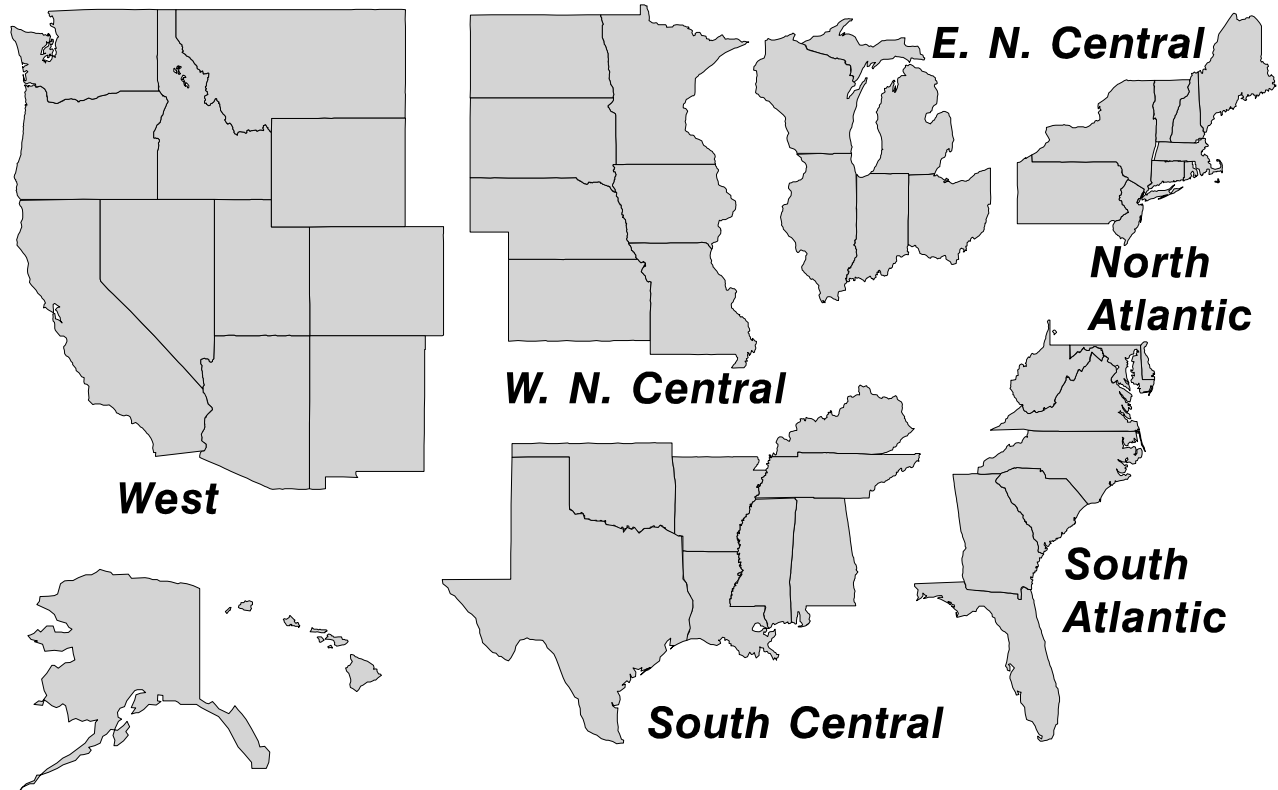
Products	Jan	Feb	Mar	Apr	May	Jun
	<b>Manufacturers' Shipments <sup>1</sup></b>					
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Dry Whole Milk	9,082	7,826	8,140	8,294	6,850	9,723
Nonfat Dry Milk, Human	84,149	86,174	99,018	83,755	80,377	97,965
Dry Skim Milk, Animal	472	471	383	365	438	436
Dry Buttermilk, Human	3,391	2,952	2,447	2,612	2,439	3,023
	<b>Manufacturers' Stocks End-of-Month <sup>2</sup></b>					
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Canned Evaporated and Condensed Whole Milk	38,355	40,024	39,165	38,706	44,346	47,867
Dry Whole Milk	6,629	6,690	6,830	6,672	8,456	7,042
Nonfat Dry Milk, Human	104,143	105,272	95,315	113,134	132,679	122,658
Dry Skim Milk, Animal	789	734	883	976	927	853
Dry Buttermilk, Total	3,765	3,927	4,514	5,755	6,177	5,232
	<b>Manufacturers' Selling Prices <sup>3</sup></b>					
	<i>Cents per Pound</i>	<i>Cents per Pound</i>	<i>Cents per Pound</i>	<i>Cents per Pound</i>	<i>Cents per Pound</i>	<i>Cents per Pound</i>
Dry Whole Milk	118.21	119.20	119.28	118.00	117.99	118.45
Nonfat Dry Milk, Human	104.15	103.89	103.80	103.53	103.55	103.44
Dry Skim Milk, Animal	60.15	59.65	69.49	61.68	59.12	56.17
Dry Buttermilk, Human	94.66	93.66	97.09	97.97	97.20	95.80
	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>
	<b>Manufacturers' Shipments <sup>1</sup></b>					
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Dry Whole Milk	9,310	9,489	9,320	10,883	8,464	7,529
Nonfat Dry Milk, Human	97,248	83,407	72,696	72,809	65,369	69,326
Dry Skim Milk, Animal	235	311	296	254	276	371
Dry Buttermilk, Human	3,318	2,090	2,138	2,212	1,998	2,036
	<b>Manufacturers' Stocks End-of-Month <sup>2</sup></b>					
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Canned Evaporated and Condensed Whole Milk	55,925	64,186	62,176	48,560	38,135	35,818
Dry Whole Milk	7,285	6,682	5,468	5,082	6,072	5,161
Nonfat Dry Milk, Human	115,343	94,758	64,441	47,235	43,728	56,255
Dry Skim Milk, Animal	1,107	1,328	1,411	1,044	1,022	1,074
Dry Buttermilk, Total	4,654	4,141	2,344	2,783	3,350	3,984
	<b>Manufacturers' Selling Prices <sup>3</sup></b>					
	<i>Cents per Pound</i>	<i>Cents per Pound</i>	<i>Cents per Pound</i>	<i>Cents per Pound</i>	<i>Cents per Pound</i>	<i>Cents per Pound</i>
Dry Whole Milk	126.22	134.77	143.26	136.98	150.23	148.11
Nonfat Dry Milk, Human	104.05	105.25	107.40	110.52	111.52	110.07
Dry Skim Milk, Animal	63.83	60.15	67.43	62.81	60.44	62.45
Dry Buttermilk, Human	97.55	100.14	103.93	106.80	109.11	105.64

<sup>1</sup> For dry products, shipments of bulk goods only.

<sup>2</sup> Stocks held by manufacturers at all points and in transit.

<sup>3</sup> Prices for bulk goods, f.o.b. plant. Average monthly prices reported by firms, weighted by shipments of each firm.

# U. S. Geographic Regions Manufactured Dairy



State totals are not published when fewer than 3 firms have reported or one firm comprises more than 60 percent of the State total. The map above outlines the regions used in the product tables. If we are not able to publish a region for confidentiality reasons, it will be combined with other regions when possible. For example, if North Atlantic can not be published, then it will be combined with South Atlantic to publish Atlantic. The West North Central and East North Central will be combined, if necessary, to form North Central. In the event that neither could be published, they will be combined with South Central to publish Central. Some tables will have only one or two regions shown, therefore the regions may not add to the United States total.



**Total Cheese, Excluding Cottage Cheese: Production by Month, State,  
and United States, 1998 and Total 1997-98**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
CA	101,696	94,793	105,740	103,045	107,141	102,230	100,304	97,919
ID	41,668	38,146	42,084	40,639	43,526	42,261	41,959	42,647
IL	10,753	9,075	10,021	10,385	10,381	10,656	10,020	9,695
IA	20,213	19,407	22,174	21,100	20,369	21,102	19,922	19,356
KS								
MA	79	76	85	113	86	80	77	89
MN	56,242	49,865	55,636	55,801	55,750	53,861	50,945	48,808
MO	10,685	10,865	15,017	12,990	11,399	13,057	11,114	12,228
NE	8,246	7,531	8,272	8,734	8,698	8,267	8,299	8,221
NJ								
NM								
NY	51,793	45,686	53,940	56,349	54,589	54,630	48,638	49,952
ND	1,488	1,561	1,666	2,018	2,011	1,869	1,577	1,388
OH	9,902	9,346	10,082	11,193	10,734	10,672	10,159	9,533
PA	25,134	29,211	33,760	33,008	30,284	31,850	30,311	28,809
SD	11,981	10,688	12,265	11,479	11,709	11,832	11,343	10,196
UT	4,565	4,303	4,029	5,285	5,916	6,235	6,470	5,480
VT								
WA	12,912	13,635	14,160	14,018	14,722	14,560	15,091	14,639
WI	176,297	160,395	180,847	174,849	180,827	180,519	172,831	171,688
Oth Sts <sup>1</sup>	73,784	69,565	76,787	78,071	84,412	78,389	71,027	67,996
US	617,438	574,148	646,565	639,077	652,554	642,070	610,087	598,644
N Atl	90,859	86,715	100,363	101,989	98,773	99,030	92,741	92,008
S Atl	2,554	2,365	2,560	1,918	2,667	2,422	2,947	2,279
E N Cen	207,503	188,097	211,724	207,945	214,434	213,191	203,935	203,628
W N Cen	111,643	102,651	118,144	114,766	112,709	112,743	104,850	100,433
S Cen	7,641	5,742	4,615	7,735	6,477	6,555	5,308	5,828
West	197,238	188,578	209,159	204,724	217,494	208,129	200,306	194,468

See footnotes at end of table.

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**Total Cheese, Excluding Cottage Cheese: Production by Month, State,  
and United States, 1998 and Total 1997-98 (continued)**

State	1998						1997	
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Number</i>	<i>1,000 Lbs</i>	<i>Number</i>
CA	96,900	111,342	110,077	111,702	1,242,889	52	1,174,171	50
ID	42,439	45,270	45,770	48,544	514,953	11	471,928	11
IL	9,299	7,676	7,204	7,142	112,307	16	120,199	17
IA	19,870	20,880	19,630	21,543	245,566	7	234,252	7
KS							27,708	3
MA	99	85	86	104	1,059	4		
MN	39,792	45,314	47,519	57,400	616,933	15	642,013	16
MO	13,334	15,572	14,530	13,909	154,700	4	166,713	5
NE	7,581	9,179	10,303	7,063	100,394	4	96,151	4
NJ							41,828	5
NM							189,686	4
NY	52,377	54,235	52,407	56,269	630,865	31	616,689	32
ND	1,151	1,168	1,269	2,018	19,184	3	21,284	4
OH	9,256	9,774	9,286	10,511	120,448	16	111,542	16
PA	27,701	28,114	29,012	33,368	360,562	20	342,776	20
SD	10,975	11,659	11,235	11,527	136,889	7	135,690	7
UT	5,232	5,043	5,170	5,554	63,282	8	63,531	9
VT							101,880	11
WA	13,641	15,631	15,096	15,260	173,365	5	121,085	5
WI	173,392	184,007	178,740	182,064	2,116,456	130	2,119,317	137
Oth Sts <sup>1</sup>	61,073	67,188	79,248	84,511	892,051	65	531,971	49
US	584,112	632,137	636,582	668,489	7,501,903	398	7,330,414	412
N Atl	92,818	96,678	94,622	103,651	1,150,247	76	1,112,426	78
S Atl	2,751	3,493	2,905	2,970	31,831	5	25,713	5
E N Cen	201,945	211,871	205,851	212,583	2,482,707	175	2,469,629	184
W N Cen	92,708	103,822	104,547	113,548	1,292,564	43	1,323,811	46
S Cen	4,283	3,369	3,722	4,968	66,243	13	116,576	13
West	189,607	212,904	224,935	230,769	2,478,311	86	2,282,259	86

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

**Total American Type Cheese: Production by Month, State,  
and United States, 1998 and Total 1997-98 <sup>1</sup>**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
CA	42,802	39,573	43,413	42,808	46,012	41,463	39,772	38,611
ID	38,385	35,036	38,708	37,613	40,635	39,100	38,718	39,534
IA	9,172	8,688	9,100	9,386	9,408	9,167	8,780	8,334
KS								
MN	47,776	43,775	47,633	50,532	49,649	49,003	47,980	44,945
NM								
NY								
ND	1,488	1,561	1,666	2,018	2,011	1,869	1,577	1,388
OH	2,803	2,568	2,944	3,337	3,144	3,198	2,763	2,534
OR	4,385	4,013	4,607	4,461	4,588	4,453	4,574	4,566
SD	4,458	4,181	4,707	4,580	4,459	4,595	4,677	4,327
TN	775		1	1,853	521	62		
UT	1,626	1,578	1,534	2,721	3,153	3,535	3,639	2,602
WA	8,319	9,190	8,888	9,258	9,836	9,516	10,055	9,896
WI	80,147	71,947	80,062	77,462	81,095	78,971	79,265	74,816
Oth Sts <sup>2</sup>	41,870	39,599	41,025	41,986	43,996	42,903	35,938	29,757
US	284,006	261,709	284,288	288,015	298,507	287,835	277,738	261,310
Atlantic	12,842	11,681	12,257	13,507	15,182	13,271	13,447	11,882
E N Cen	84,210	75,783	84,478	82,287	85,626	83,581	83,505	78,721
W N Cen	68,538	64,125	70,037	74,091	72,635	71,059	67,637	61,702
S Cen	7,417	5,546	4,438	7,500	6,176	6,342	5,083	5,424
West	110,999	104,574	113,078	110,630	118,888	113,582	108,066	103,581

See footnotes at end of table.

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**Total American Type Cheese: Production by Month, State,  
and United States, 1998 and Total 1997-98<sup>1</sup> (continued)**

State	1998						1997	
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Number</i>	<i>1,000 Lbs</i>	<i>Number</i>
CA	40,354	43,698	42,356	44,900	505,762	21	476,102	21
ID	38,390	39,995	40,696	42,971	469,781	9	427,952	9
IA	8,221	9,164	8,702	9,781	107,903	5	102,481	6
KS							27,708	3
MN	36,811	41,221	44,215	54,861	558,401	13	541,837	14
NM							61,523	3
NY							93,388	13
ND	1,151	1,168	1,269	2,018	19,184	3	21,284	4
OH	2,641	2,870	2,632	3,137	34,571	7	32,576	7
OR	4,534	4,743	4,529	4,634	54,087	3	50,320	3
SD	4,656	4,995	4,774	5,288	55,697	5	50,997	5
TN					3,212	1	13,407	1
UT	2,409	2,273	2,392	2,590	30,052	7	29,679	8
WA	8,937	10,956	10,558	11,052	116,461	3	66,659	3
WI	71,090	77,199	77,123	82,231	931,408	73	944,003	79
Oth Sts <sup>2</sup>	25,719	28,558	31,314	36,652	439,317	52	345,642	36
US	244,913	266,840	270,560	300,115	3,325,836	202	3,285,558	215
Atlantic	10,220	12,280	11,671	13,462	151,702	25	141,244	25
E N Cen	75,084	81,481	81,072	86,881	982,709	87	993,567	94
W N Cen	53,504	59,630	62,060	75,874	800,892	32	792,002	36
S Cen	3,995	3,040	3,383	4,690	63,034	11	113,471	11
West	102,110	110,409	112,374	119,208	1,327,499	47	1,245,274	49

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

<sup>2</sup> States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

**Cheddar Cheese: Production by Month, State, and United States,  
1998 and Total 1997-98**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
CA	32,494	28,591	32,105	32,299	35,545	28,988	27,950	26,350
ID	24,477	20,967	23,490	23,664	25,558	24,852	24,778	25,933
IA	4,576	4,492	4,993	5,029	5,290	4,714	4,232	4,297
KS								
MN	45,634	42,094	45,466	48,722	47,880	46,831	46,177	43,365
NM								
NY	7,524	6,839	7,523	7,846	8,794	8,315	7,690	6,659
ND	1,488	1,561	1,666	2,018	2,011	1,869	1,577	1,388
OH	1,517	1,386	1,628	2,160	2,049	2,042	1,576	1,567
SD	3,668	2,978	4,190	4,354	3,262	2,930	4,040	3,655
TN	775		1	1,853	521	62		
UT	989	1,005	962	2,060	2,154	1,873	2,414	1,523
WA	7,089	7,701	7,654	7,828	9,457	8,605	8,591	8,364
WI	65,873	57,886	65,425	62,659	67,415	63,419	62,896	60,245
Oth Sts <sup>1</sup>	34,122	31,923	32,061	31,472	33,294	33,315	27,818	23,320
US	230,226	207,423	227,164	231,964	243,230	227,815	219,739	206,666
Atlantic	12,343	11,234	11,440	12,780	14,444	12,662	12,898	11,406
E N Cen	67,400	59,342	67,132	64,839	69,476	65,466	64,477	61,816
W N Cen	58,152	53,861	59,429	62,767	61,189	59,082	57,673	52,938
S Cen	7,417	5,546	4,438	7,500	6,176	6,342	5,083	5,424
West	84,914	77,440	84,725	84,078	91,945	84,263	79,608	75,082
	1998						1997	
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Number</i>	<i>1,000 Lbs</i>	<i>Number</i>
CA	27,048	31,548	31,157	34,079	368,154	17	351,001	16
ID	24,025	25,151	25,607	27,814	296,316	9	266,892	9
IA	4,182	4,360	4,550	5,044	55,759	4	49,920	5
KS							27,629	3
MN	34,981	39,103	42,527	52,345	535,125	13	516,020	14
NM							61,523	3
NY	6,049	6,766	6,858	8,030	88,893	11	91,214	12
ND	1,151	1,168	1,269	2,018	19,184	3	21,284	4
OH	1,694	1,917	1,773	1,970	21,279	5	16,906	4
SD	3,865	2,642	3,265	4,381	43,230	3	45,545	3
TN					3,212	1	13,407	1
UT	1,501	1,203	1,504	1,605	18,793	7	18,587	8
WA	8,100	9,240	9,954	9,634	102,217	2	56,914	2
WI	57,305	60,761	62,435	66,473	752,792	68	773,848	74
Oth Sts <sup>1</sup>	19,617	21,571	24,166	27,396	340,075	36	329,191	31
US	189,518	205,430	215,065	240,789	2,645,029	179	2,639,881	189
Atlantic	9,646	11,782	11,199	12,981	144,815	21	135,858	22
E N Cen	59,003	62,681	64,225	68,447	774,304	77	790,901	83
W N Cen	44,186	47,322	51,668	63,867	672,134	28	663,287	31
S Cen	3,995	3,040	3,383	4,690	63,034	11	113,470	10
West	72,688	80,605	84,590	90,804	990,742	42	936,365	43

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

**Other American Varieties of Cheese: Production by Month,  
State, and United States, 1998 and Total 1997-98 <sup>1</sup>**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
CA	10,308	10,982	11,308	10,509	10,467	12,475	11,822	12,261
ID	13,908	14,069	15,218	13,949	15,077	14,248	13,940	13,601
IA	4,596	4,196	4,107	4,357	4,118	4,453	4,548	4,037
MN	2,142	1,681	2,167	1,810	1,769	2,172	1,803	1,580
NY								
SD	790	1,203	517	226	1,197	1,665	637	672
UT	637	573	572	661	999	1,662	1,225	1,079
WA	1,230	1,489	1,234	1,430	379	911	1,464	1,532
WI	14,274	14,061	14,637	14,803	13,680	15,552	16,369	14,571
Oth Sts <sup>2</sup>	5,895	6,032	7,364	8,306	7,591	6,882	6,191	5,311
US	53,780	54,286	57,124	56,051	55,277	60,020	57,999	54,644
Atlantic	499	447	817	727	738	609	549	476
Central	27,196	26,705	27,954	28,772	27,596	30,092	28,992	25,669
West	26,085	27,134	28,353	26,552	26,943	29,319	28,458	28,499
	1998						1997	
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Number</i>	<i>1,000 Lbs</i>	<i>Number</i>
CA	13,306	12,150	11,199	10,821	137,608	17	125,101	17
ID	14,365	14,844	15,089	15,157	173,465	5	161,060	5
IA	4,039	4,804	4,152	4,737	52,144	3	52,561	3
MN	1,830	2,118	1,688	2,516	23,276	5	25,817	5
NY							2,174	7
SD	791	2,353	1,509	907	12,467	4	5,452	4
UT	908	1,070	888	985	11,259	5	11,092	6
WA	837	1,716	604	1,418	14,244	2	9,745	2
WI	13,785	16,438	14,688	15,758	178,616	49	170,155	49
Oth Sts <sup>2</sup>	5,534	5,917	5,678	7,027	77,728	32	82,520	29
US	55,395	61,410	55,495	59,326	680,807	122	645,677	127
Atlantic	574	498	472	481	6,887	12	5,386	13
Central	25,399	31,108	27,239	30,441	337,163	78	331,382	80
West	29,422	29,804	27,784	28,404	336,757	32	308,909	34

<sup>1</sup> Includes Colby, Monterey, and Jack.

<sup>2</sup> States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

**Swiss Cheese: Production by Month, State, and United States,  
1998 and Total 1997-98**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
ID	222	149	36	76				
IL	5,389	4,478	4,704	4,969	4,921	5,003	4,970	4,925
OH	5,761	5,603	5,797	6,529	6,564	6,518	6,277	5,687
PA	543	598	719	698	758	797	755	777
UT	2,116	1,884	1,802	1,804	2,148	2,008	2,281	2,212
WI	2,828	2,701	3,205	2,541	2,386	2,613	3,112	2,650
Oth Sts <sup>1</sup>	1,942	1,698	1,631	1,553	1,770	1,368	1,178	1,429
US	18,801	17,111	17,894	18,170	18,547	18,307	18,573	17,680
Atlantic Central	544 15,919	599 14,479	720 15,336	699 15,591	759 15,640	799 15,500	756 15,536	778 14,690
	1998						1997	
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Number</i>	<i>1,000 Lbs</i>	<i>Number</i>
ID		36	73	156	748	1	1,696	1
IL	4,462	2,331	2,253	2,249	50,654	5	58,170	5
OH	5,247	5,330	5,264	5,899	70,476	11	63,707	12
PA	625	634	595	656	8,155	5		
UT	2,145	2,184	2,092	2,287	24,963	2	23,239	2
WI	2,745	3,137	2,440	2,571	32,929	13	34,323	11
Oth Sts <sup>1</sup>	1,173	1,536	1,413	1,792	18,483	5	26,448	11
US	16,397	15,188	14,130	15,610	206,408	42	207,583	42
Atlantic Central	626 13,626	635 12,333	596 11,369	657 12,510	8,168 172,529	6 33	5,498 177,150	5 34

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

**Brick Cheese: Production by Month, State, and United States,  
1998 and Total 1997-98**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
WI	275	291	314	308	342	367	282	329
Oth Sts <sup>1</sup>	316	125	327	236	226	339	276	310
US	591	416	641	544	568	706	558	639
	1998						1997	
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Number</i>	<i>1,000 Lbs</i>	<i>Number</i>
WI	330	303	350	367	3,858	20	3,768	17
Oth Sts <sup>1</sup>	426	370	227	542	3,720	2	4,767	4
US	756	673	577	909	7,578	22	8,535	21

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

**Muenster Cheese: Production by Month, State, and United States,  
1998 and Total 1997-98**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
WI	4,616	4,065	4,457	4,278	4,675	4,670	4,331	4,298
Oth Sts <sup>1</sup>	3,729	3,206	3,788	3,763	4,073	4,055	3,228	2,779
US	8,345	7,271	8,245	8,041	8,748	8,725	7,559	7,077
	1998						1997	
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Number</i>	<i>1,000 Lbs</i>	<i>Number</i>
WI	4,203	4,763	4,346	4,553	53,255	26	58,195	28
Oth Sts <sup>1</sup>	2,692	3,784	3,660	2,603	41,360	13	41,996	14
US	6,895	8,547	8,006	7,156	94,615	39	100,191	42

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

**Cream and Neufchatel Cheese: Production by Month, State,  
and United States, 1998 and Total 1997-98**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
NY	4,716	5,841	6,710	6,058	6,561	7,813	5,301	6,566
PA	38,786	35,281	46,363	43,727	40,480	46,470	38,239	43,928
Oth Sts <sup>1</sup>								
US	43,502	41,122	53,073	49,785	47,041	54,283	43,540	50,494
	1998						1997	
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Number</i>	<i>1,000 Lbs</i>	<i>Number</i>
NY	7,645	8,069	8,026	6,876	80,182	5	163,314	6
PA							77,198	5
Oth Sts <sup>1</sup>	52,349	54,631	52,343	50,765	543,362	26	374,409	21
US	59,994	62,700	60,369	57,641	623,544	31	614,921	32

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



**Blue Cheese: Production by Month, State, and United States,  
1998 and Total 1997-98<sup>1</sup>**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
WI	2,371	2,571	2,679	3,248	2,898	2,815	3,457	3,094
Oth Sts <sup>2</sup>	682	590	696	650	653	678	687	660
US	3,053	3,161	3,375	3,898	3,551	3,493	4,144	3,754
	1998						1997	
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Number</i>	<i>1,000 Lbs</i>	<i>Number</i>
WI	3,275	3,788	2,901	2,728	35,825	7		
Oth Sts <sup>2</sup>	682	726	667	748	8,119	5	42,773	10
US	3,957	4,514	3,568	3,476	43,944	12	42,773	10

<sup>1</sup> Includes gorgonzola.

<sup>2</sup> States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

**Hispanic Cheese: Production by Month, State, and United States,  
1998 and Total 1997-98**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
CA	3,710	3,906	4,707	4,635	3,933	3,864	4,725	3,845
WI	1,386	1,371	1,469	1,410	1,270	1,392	1,235	1,228
Oth Sts <sup>1</sup>	779	567	853	757	893	706	755	844
US	5,875	5,844	7,029	6,802	6,096	5,962	6,715	5,917
	1998						1997	
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Number</i>	<i>1,000 Lbs</i>	<i>Number</i>
CA	4,178	4,337	4,357	4,116	50,313	9	45,915	9
WI	1,315	1,303	1,336	1,475	16,190	10	14,447	9
Oth Sts <sup>1</sup>	798	878	857	803	9,490	6	8,471	8
US	6,291	6,518	6,550	6,394	75,993	25	68,833	26

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

**Italian Cheese, Total: Production by Month, State,  
and United States, 1998 and Total 1997-98**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
CA	53,444	49,445	55,807	53,808	55,068	53,946	54,129	52,996
ID								
MN	8,320	5,852	7,533	4,821	5,318	4,477	2,739	3,539
NY	29,895	26,751	29,638	30,134	30,297	29,192	27,083	27,992
PA	19,399	22,183	25,226	25,375	22,235	22,464	23,523	20,756
SD	5,188	4,656	5,346	4,805	4,877	4,920	5,116	4,676
VT								
WI	72,307	66,278	75,712	72,829	73,869	75,419	68,824	70,597
Oth Sts <sup>1</sup>	55,774	53,863	62,526	61,783	67,349	61,579	59,930	60,494
US	244,327	229,028	261,788	253,555	259,013	251,997	241,344	241,050
N Atl	56,486	54,784	61,742	61,440	58,853	57,937	57,045	55,360
S Atl	1,954	1,798	1,930	1,312	1,981	1,876	2,397	1,722
E N Cen	85,333	77,733	88,631	86,624	88,430	88,934	81,456	85,065
W N Cen	25,974	22,228	25,751	22,155	23,273	21,715	20,619	20,616
West	74,580	72,485	83,734	82,024	86,476	81,535	79,827	78,287
	1998						1997	
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Number</i>	<i>1,000 Lbs</i>	<i>Number</i>
CA	48,869	59,262	59,298	60,091	656,163	30	624,732	29
ID							5,400	2
MN	2,454	3,601	3,064	2,323	54,041	4	97,241	5
NY	28,565	31,553	32,081	32,547	355,728	13	340,789	13
PA	18,637	18,650	19,668	25,196	263,312	10	249,872	10
SD	5,210	5,408	5,281	5,296	60,779	2	60,683	3
VT							37,152	3
WI	74,150	75,022	70,937	70,764	866,708	52	864,632	48
Oth Sts <sup>1</sup>	55,665	62,253	72,225	70,934	744,375	41	600,944	43
US	233,550	255,749	262,554	267,151	3,001,106	152	2,881,445	156
N Atl	53,767	57,041	58,600	64,954	698,009	35	669,474	37
S Atl	2,286	2,986	2,362	2,349	24,953	2	18,673	2
E N Cen	85,820	87,574	83,199	85,145	1,023,944	62	1,008,738	59
W N Cen	18,747	21,964	22,001	18,454	263,497	11	298,263	13
West	72,930	86,184	96,392	96,249	990,703	42	886,297	45

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

**Mozzarella Cheese: Production by Month, State,  
and United States, 1998 and Total 1997-98**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
CA	45,036	41,721	47,172	44,547	45,998	45,594	46,126	44,868
ID	401	378	482	272	154	237	448	295
NY	17,546	15,977	17,207	18,020	19,716	18,658	16,953	16,888
PA								
WI	52,241	49,012	56,337	53,375	54,812	56,178	50,181	52,280
Oth Sts <sup>1</sup>	72,646	73,658	84,127	82,181	85,891	77,854	79,022	76,492
US	187,870	180,746	205,325	198,395	206,571	198,521	192,730	190,823
Atlantic	38,844	39,759	43,638	43,416	43,676	41,730	42,939	39,650
E N Cen	63,180	58,654	67,221	65,148	67,744	68,008	61,361	65,049
W N Cen	20,578	18,381	20,115	17,918	18,588	16,352	17,465	16,986
West	65,268	63,952	74,351	71,913	76,563	72,431	70,965	69,138
	1998						1997	
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Number</i>	<i>1,000 Lbs</i>	<i>Number</i>
CA	44,492	51,185	49,493	48,894	555,126	26	519,443	27
ID	319	443	315	102	3,846	2	5,400	2
NY	16,028	18,009	17,287	18,434	210,723	12	203,737	13
PA							218,848	6
WI	55,139	54,757	52,199	52,763	639,274	41	645,637	40
Oth Sts <sup>1</sup>	69,270	75,878	87,506	90,675	955,200	43	651,981	45
US	185,248	200,272	206,800	210,868	2,364,169	124	2,245,046	133
Atlantic	36,945	39,208	38,911	45,369	494,085	27	484,237	30
E N Cen	65,010	65,254	62,714	65,324	774,667	50	768,131	50
W N Cen	15,927	18,820	19,773	16,166	217,069	9	222,561	10
West	67,366	76,990	85,402	84,009	878,348	38	770,117	43

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

**Other Italian Cheese: Production by Month, State,  
and United States, 1998 and Total 1997-98**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
CA	8,408	7,724	8,635	9,261	9,070	8,352	8,003	8,128
NY	12,349	10,774	12,431	12,114	10,581	10,534	10,130	11,104
PA	3,436	3,146	4,190	4,237	3,671	4,484	3,570	3,397
WI	20,066	17,266	19,375	19,454	19,057	19,241	18,643	18,317
Oth Sts <sup>1</sup>	12,198	9,372	11,832	10,094	10,063	10,865	8,268	9,281
US	56,457	48,282	56,463	55,160	52,442	53,476	48,614	50,227
Atlantic	19,596	16,823	20,034	19,336	17,158	18,083	16,503	17,432
E N Cen	22,153	19,079	21,410	21,476	20,686	20,926	20,095	20,016
W N Cen	5,396	3,847	5,636	4,237	4,685	5,363	3,154	3,630
West	9,312	8,533	9,383	10,111	9,913	9,104	8,862	9,149
	1998						1997	
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Number</i>	<i>1,000 Lbs</i>	<i>Number</i>
CA	4,377	8,077	9,805	11,197	101,037	19	105,289	17
NY	12,537	13,544	14,794	14,113	145,005	10	137,052	9
PA	3,255	3,570	3,660	4,001	44,617	9		
WI	19,011	20,265	18,738	18,001	227,434	31	218,995	26
Oth Sts <sup>1</sup>	9,122	10,021	8,757	8,971	118,844	27	175,063	40
US	48,302	55,477	55,754	56,283	636,937	96	636,399	92
Atlantic	19,108	20,819	22,051	21,934	228,877	30	203,910	31
E N Cen	20,810	22,320	20,485	19,821	249,277	37	240,607	33
W N Cen	2,820	3,144	2,228	2,288	46,428	5	75,702	7
West	5,564	9,194	10,990	12,240	112,355	24	116,180	21

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

**Italian Cheese: Production, United States, 1997-98**

Type	1997	1998	1998/1997
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Percent</i>
<b>Hard</b>			
Provolone and similars	199,955	220,618	110
Romano and similars	30,078	28,394	94
Parmesan and similars	150,056	128,425	86
Other hard	8,671	11,790	136
Total hard	388,760	389,227	100
<b>Soft</b>			
Mozzarella and similars	2,245,046	2,364,169	105
Ricotta and similars	237,995	239,228	101
Other soft	9,644	8,482	88
Total soft	2,492,685	2,611,879	105
Total hard and soft	2,881,445	3,001,106	104

**Italian Cheese: Production by Type, Region, and United States, 1997-98**

Region	Hard Types		Soft Types		Total	
	1997	1998	1997	1998	1997	1998
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Atlantic	65,821	85,755	622,326	637,207	688,147	722,962
E N Cen	155,536	165,068	853,202	858,876	1,008,738	1,023,944
W N Cen	75,702	46,428	222,561	217,069	298,263	263,497
West	91,701	91,976	794,596	898,727	886,297	990,703
US	388,760	389,227	2,492,685	2,611,879	2,881,445	3,001,106

**Miscellaneous Cheese: Production by State, and United States, 1998**

State	Provolone	Romano	Parmesan	Ricotta
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
CA	24,891			
NY	36,754			108,245
PA				4,572
WI	93,134	12,752	46,303	55,945
Oth Sts <sup>1</sup>	65,839	15,642	82,122	70,466
US	220,618	28,394	128,425	239,228

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

**Processed Cheeses and Combinations: Production,  
United States, 1989-98 <sup>1</sup>**

Year	Processed Cheese		Processed Cheese Foods & Spreads	
	Plants	Production	Plants	Production
	<i>Number</i>	<i>1,000 Lbs</i>	<i>Number</i>	<i>1,000 Lbs</i>
1989	34	1,124,682	34	804,320
1990	31	1,192,701	32	875,786
1991	32	1,238,177	29	878,555
1992	33	1,347,718	33	775,379
1993	35	1,347,544	32	840,950
1994	36	1,397,602	32	859,969
1995	35	1,472,213	30	831,584
1996	33	1,489,251	28	856,620
1997	33	1,378,086	28	795,893
1998	33	1,446,324	28	793,985
	Cold Pack Cheese and Cheese Foods		Total	
	Plants	Production	Plants	Production
	<i>Number</i>	<i>1,000 Lbs</i>	<i>Number</i>	<i>1,000 Lbs</i>
1989	22	78,006	52	2,007,008
1990	23	83,656	51	2,152,143
1991	23	72,897	50	2,189,629
1992	22	79,569	55	2,202,666
1993	23	54,554	56	2,243,048
1994	22	46,680	55	2,304,251
1995	20	35,699	57	2,339,496
1996	20	38,044	56	2,383,915
1997	22	36,008	54	2,209,987
1998	22	37,818	55	2,278,127

<sup>1</sup> Processed cheese is made by pasteurizing, emulsifying, and blending natural cheese and contains no other ingredients. Processed cheese foods, spreads, and cold pack contain additional ingredients such as nonfat milk solids, condiments, etc. These data exclude spreads made from neufchatel and cream cheese.

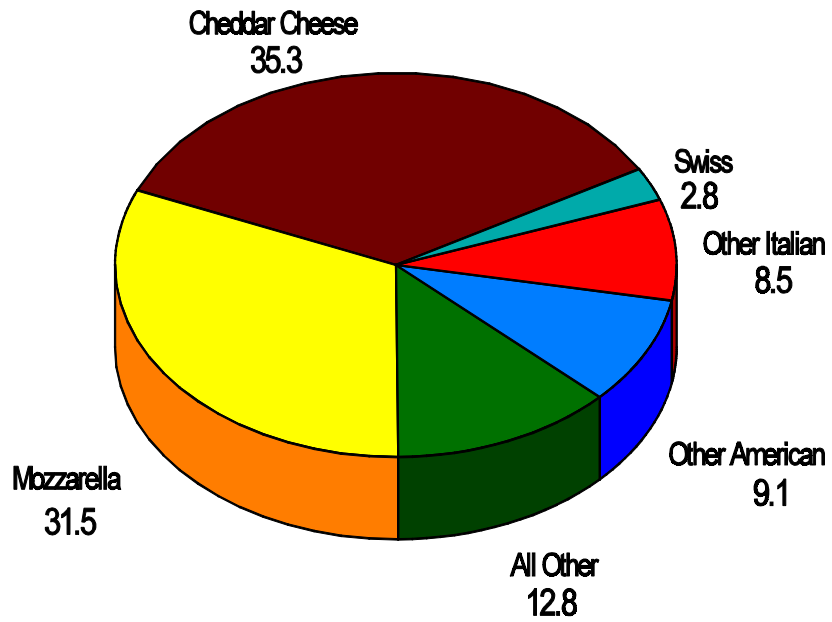
**All Other Types of Cheese: Production by Month, State,  
and United States, 1998 and Total 1997-98**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
CA	546	598	554	768	638	843	685	814
IL	713	515	653	745	730	688	646	605
MI	433	262	481	419	373	474	388	389
MN	142	227	434	398	688	375	226	281
NY	397	614	640	506	571	540	487	369
WI	3,807	3,650	4,451	4,623	4,489	4,836	4,386	4,916
Oth Sts <sup>1</sup>	2,813	2,563	2,939	2,750	2,882	2,956	3,033	3,260
US	8,851	8,429	10,152	10,209	10,371	10,712	9,851	10,634
	1998						1997	
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Number</i>	<i>1,000 Lbs</i>	<i>Number</i>
CA	1,001	981	773	776	8,977	19	9,281	20
IL	708	714	722	688	8,127	5	8,522	5
MI	490	496	601	536	5,342	5	4,758	6
MN	527	492	195	173	4,158	3	2,716	3
NY	419	478	534	678	6,233	11	6,131	10
WI	4,872	5,112	4,477	4,345	53,964	33	49,958	26
Oth Sts <sup>1</sup>	3,303	3,086	2,862	2,766	35,213	21	38,463	24
US	11,320	11,359	10,164	9,962	122,014	97	119,829	94

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

# Cheese Production

## Percent by Type, 1998





**Lowfat Cottage Cheese: Production by Month, State,  
and United States, 1998 and Total 1997-98 <sup>1</sup>**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
CA	5,064	5,069	5,839	5,450	5,722	5,443	5,952	5,547
ID								
IL	1,695	1,654	2,045	1,924	2,082	2,109	2,065	2,031
IA	599	577	687	621	628	682	706	676
KY	764	712	773	770	726	742	918	810
MI	355	331	393	338	340	378	407	333
NY	6,955	6,949	7,317	7,739	7,110	8,163	7,794	7,397
ND	113	109	133	118	122	113	147	111
OK	198	177	166	193	175	186	155	118
OR	514	453	487	506	529	576	594	579
PA	599	683	724	662	689	659	656	573
TN	464	485	467	498	474	527	529	506
TX	383	413	446	451	447	462	471	459
WA								
WI	1,595	1,512	1,772	1,815	1,612	1,619	1,764	1,573
Oth Sts <sup>2</sup>	9,315	8,998	10,073	9,677	9,854	10,010	10,209	9,466
US	28,613	28,122	31,322	30,762	30,510	31,669	32,367	30,179
N Atl	7,757	7,850	8,249	8,663	8,034	9,058	8,693	8,208
S Atl	1,551	1,553	1,624	1,565	1,443	1,378	1,562	1,342
E N Cen	6,178	5,876	6,980	6,712	7,050	6,948	7,125	6,329
W N Cen	2,816	2,725	3,028	2,895	2,871	3,096	3,059	3,067
S Cen	1,888	1,876	1,966	1,998	1,914	2,005	2,171	1,993
West	8,423	8,242	9,475	8,929	9,198	9,184	9,757	9,240

See footnotes at end of table.

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**Lowfat Cottage Cheese: Production by Month, State, and United States, 1998 and Total 1997-98<sup>1</sup> (continued)**

State	1998						1997	
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Number</i>	<i>1,000 Lbs</i>	<i>Number</i>
CA	5,553	5,644	5,040	5,368	65,691	6	63,757	6
ID							3,833	1
IL	2,318	1,935	1,809	1,857	23,524	5	21,755	5
IA	705	679	729	734	8,023	3	7,697	3
KY	819	750	695	651	9,130	3	9,042	3
MI	390	404	375	407	4,451	2	4,333	2
NY	8,159	6,974	6,613	6,121	87,291	8	83,245	8
ND	148	117	125	110	1,466	2	1,439	2
OK	177	140	154	124	1,963	3	3,049	3
OR	584	589	526	511	6,448	8	5,654	8
PA	628	642	517	515	7,547	4	6,798	4
TN	631	603	512	412	6,108	3	4,805	3
TX	442	443	440	423	5,280	3	5,207	4
WA							19,446	4
WI	1,672	1,621	1,342	1,286	19,183	4	19,673	4
Oth Sts <sup>2</sup>	10,670	9,707	9,181	8,611	115,771	48	86,954	46
US	32,896	30,248	28,058	27,130	361,876	102	346,687	106
N Atl	9,003	7,851	7,339	6,778	97,483	15	92,259	15
S Atl	1,557	1,497	1,512	1,471	18,055	7	18,475	6
E N Cen	7,378	6,621	5,938	5,849	78,984	23	72,668	24
W N Cen	3,188	3,084	2,725	2,774	35,328	13	34,951	13
S Cen	2,069	1,936	1,801	1,610	23,227	13	23,178	15
West	9,701	9,259	8,743	8,648	108,799	31	105,156	33

<sup>1</sup> Fat content less than 4.0 percent.

<sup>2</sup> States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

**Creamed Cottage Cheese: Production by Month, State,  
and United States, 1998 and Total 1997-98<sup>1</sup>**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
CA	2,534	2,452	2,916	2,650	2,808	2,823	3,023	2,848
ID								
IL	2,588	2,583	3,169	2,865	3,034	3,127	3,100	3,013
IN	1,755	1,767	1,966	1,887	1,701	1,861	2,296	1,914
IA	875	834	902	838	832	1,026	1,061	1,055
KY	1,376	1,288	1,419	1,427	1,437	1,468	1,794	1,636
MI	1,223	1,149	1,472	1,194	1,205	1,360	1,461	1,593
MO	581	494	494	522	557	638	569	689
NY	4,430	4,298	4,914	4,639	4,619	4,868	5,057	4,624
ND	17	15	20	21	28	22	34	23
OH	1,844	1,685	1,873	1,842	1,739	1,619	1,896	1,785
OR	513	467	496	517	530	588	609	611
PA	1,109	1,327	1,498	1,268	1,376	1,196	1,192	1,082
TN	586	610	571	636	638	826	797	758
TX	472	470	478	670	649	665	669	668
WA								
WI	1,477	1,459	1,569	1,620	1,419	1,455	1,608	1,452
Oth Sts <sup>2</sup>	7,730	7,401	8,017	7,770	7,912	7,863	9,031	8,387
US	29,110	28,299	31,774	30,366	30,484	31,405	34,197	32,138
N Atl	5,856	5,939	6,774	6,250	6,394	6,467	6,680	6,116
S Atl	1,657	1,499	1,701	1,298	1,461	1,501	1,667	1,648
E N Cen	8,887	8,643	10,049	9,408	9,098	9,422	10,361	9,757
W N Cen	3,092	2,970	3,205	3,101	3,168	3,402	3,573	3,514
S Cen	2,792	2,706	2,845	3,076	3,092	3,347	3,620	3,440
West	6,826	6,542	7,200	7,233	7,271	7,266	8,296	7,663

See footnotes at end of table.

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**Creamed Cottage Cheese: Production by Month, State, and United States, 1998 and Total 1997-98<sup>1</sup> (continued)**

State	1998						1997	
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Number</i>	<i>1,000 Lbs</i>	<i>Number</i>
CA	2,922	2,874	2,625	2,772	33,247	6	32,190	6
ID							1,546	1
IL	3,359	2,958	2,798	2,965	35,559	5	35,861	5
IN	1,717	1,223	1,212	1,044	20,343	4	20,962	4
IA	1,033	981	955	996	11,388	3	11,479	3
KY	1,674	1,439	1,539	1,338	17,835	3	15,270	3
MI	1,391	1,435	1,437	1,455	16,375	2	15,144	2
MO	570	510	436	457	6,517	4		
NY	4,884	4,484	4,111	4,432	55,360	10	55,187	10
ND	37	27	27	30	301	2	221	1
OH	1,669	1,558	1,307	1,296	20,113	11	21,416	11
OR	578	589	547	546	6,591	7	7,774	7
PA	1,078	1,244	969	886	14,225	4	13,777	4
TN	781	756	718	641	8,318	4	6,513	4
TX	643	643	648	632	7,307	4	7,346	5
WA							13,359	4
WI	1,558	1,561	1,339	1,322	17,839	3	19,006	4
Oth Sts <sup>2</sup>	7,948	8,156	7,336	7,892	95,443	35	82,474	36
US	31,842	30,438	28,004	28,704	366,761	107	359,525	110
N Atl	6,327	6,092	5,413	5,625	73,933	18	72,546	18
S Atl	1,576	1,465	1,453	1,447	18,373	6	17,988	5
E N Cen	9,694	8,735	8,093	8,082	110,229	25	112,389	26
W N Cen	3,501	3,356	3,032	3,334	39,248	13	39,224	12
S Cen	3,408	3,177	3,229	2,913	37,645	15	34,992	16
West	7,336	7,613	6,784	7,303	87,333	30	82,386	33

<sup>1</sup> Fat content more than 4.0 percent.

<sup>2</sup> States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

**Cottage Cheese Curd: Production by Month, State,  
and United States, 1998 and Total 1997-98 <sup>1</sup>**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
CA	4,140	4,018	4,711	4,319	4,697	4,599	4,752	4,725
ID								
IL	2,158	2,106	2,729	2,426	2,650	3,144	2,639	2,600
IN	1,419	1,388	1,520	1,481	1,292	1,384	1,672	1,413
IA	970	903	1,019	956	925	1,068	1,109	1,081
KY	1,729	1,597	1,611	1,673	1,715	1,575	1,717	1,777
MI	1,619	1,574	1,776	1,718	1,622	1,849	2,103	2,278
MO	719	605	629	636	637	769	676	760
NY	7,498	7,784	8,519	8,496	8,022	8,989	8,728	8,452
ND	79	76	93	84	91	81	107	71
OH	1,803	1,633	2,366	1,438	2,012	1,837	1,869	1,639
OK	279	203	261	261	237	267	252	251
OR	786	686	776	774	791	874	891	877
PA	1,302	1,517	1,699	1,668	1,551	1,614	1,570	1,441
TN	540	596	561	620	615	751	717	688
TX	773	763	808	853	836	871	879	866
WA								
WI	1,964	1,913	2,134	2,215	1,925	1,974	2,055	1,903
Oth Sts <sup>2</sup>	9,035	8,906	9,470	8,998	8,931	8,978	9,511	9,329
US	36,813	36,268	40,682	38,616	38,549	40,624	41,247	40,151
N Atl	9,312	9,827	10,814	10,651	10,131	11,014	10,787	10,341
S Atl	2,212	2,142	2,321	2,034	1,907	2,018	2,331	2,129
E N Cen	8,963	8,614	10,525	9,278	9,501	10,188	10,338	9,833
W N Cen	3,600	3,435	3,814	3,664	3,631	3,882	3,793	3,947
S Cen	3,386	3,232	3,329	3,479	3,486	3,543	3,644	3,652
West	9,340	9,018	9,879	9,510	9,893	9,979	10,354	10,249

See footnotes at end of table.

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**Cottage Cheese Curd: Production by Month, State, and United States, 1998 and Total 1997-98<sup>1</sup> (continued)**

State	1998						1997	
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Number</i>	<i>1,000 Lbs</i>	<i>Number</i>
CA	4,931	4,628	4,330	4,356	54,206	8		
ID							5,236	1
IL	2,996	2,582	2,453	2,580	31,063	5	29,775	5
IN	1,321	1,050	1,071	972	15,983	4	18,159	4
IA	1,101	1,061	1,054	1,056	12,303	3	12,333	3
KY	1,812	1,675	1,291	1,156	19,328	4	18,202	4
MI	1,911	2,047	2,009	1,960	22,466	2	20,162	2
MO	669	641	543	517	7,801	4		
NY	8,869	7,822	7,419	7,167	97,765	11	93,691	11
ND	114	93	84	94	1,067	2	1,008	2
OH	2,020	1,942	1,600	1,621	21,780	11	18,237	11
OK	272	243	254	222	3,002	3		
OR	872	878	798	793	9,796	8	7,256	8
PA	1,369	1,525	1,292	1,220	17,768	5	17,066	5
TN	775	744	675	579	7,861	4	6,106	4
TX	828	825	826	798	9,926	4	9,792	5
WA							18,952	4
WI	2,017	1,989	1,703	1,650	23,442	3	22,792	4
Oth Sts <sup>2</sup>	9,141	9,390	8,828	8,815	109,332	33	159,693	46
US	41,018	39,135	36,230	35,556	464,889	114	458,460	119
N Atl	10,793	9,831	9,112	8,796	121,409	21	127,166	21
S Atl	2,233	2,119	2,093	2,014	25,553	6	25,130	6
E N Cen	10,265	9,610	8,836	8,783	114,734	25	109,125	26
W N Cen	3,945	3,879	3,478	3,656	44,724	13	44,889	13
S Cen	3,687	3,487	3,046	2,755	40,726	16	39,453	17
West	10,095	10,209	9,665	9,552	117,743	33	112,697	36

<sup>1</sup> Mostly used for processing into fully creamed or lowfat cottage cheese. Cottage cheese curd and creamed and lowfat cottage cheese should not be added together to obtain total production.

<sup>2</sup> States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

**Butter: Production by Month, State, and United States,  
1998 and Total 1997-98**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
CA	30,415	21,758	21,243	22,568	21,316	11,201	10,052	12,667
MN	5,475	5,924	4,723	5,969	6,247	5,584	4,208	4,534
NY	2,348	2,461	2,058	1,860	1,584	1,332	1,474	1,532
ND	449	297	359	462	371	395	317	315
OR	2,114	1,821	1,979	1,855	1,850	1,382	1,419	1,556
PA	9,291	8,540	8,881	9,407	8,882	7,272	6,067	4,651
TN								
WA	7,022	5,492	6,007	6,796	6,239	5,860	5,892	5,209
WI	31,707	28,067	28,504	27,979	23,963	20,305	20,440	20,810
Oth Sts <sup>1</sup>	28,989	31,327	32,934	30,176	22,101	16,555	13,897	12,980
US	117,810	105,687	106,688	107,072	92,553	69,886	63,766	64,254
N Atl	15,621	14,661	14,196	14,604	12,944	10,216	8,880	7,694
S Atl	4,772	4,512	4,488	3,940	3,229	2,099	1,232	642
E N Cen	38,673	35,917	36,259	35,155	30,234	25,750	24,441	23,823
W N Cen	10,775	11,209	10,162	11,561	11,695	11,100	9,537	9,945
S Cen	7,387	9,168	10,823	10,088	4,688	1,964	2,023	2,381
West	40,582	30,220	30,760	31,724	29,763	18,757	17,653	19,769
	1998						1997	
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Number</i>	<i>1,000 Lbs Number</i>	<i>1,000 Lbs Number</i>
CA	12,770	20,570	18,808	23,192	226,560	13	314,207	16
MN	5,146	5,484	6,131	6,531	65,956	5	61,070	5
NY	1,349	1,700	1,527	1,992	21,217	9	24,501	8
ND	402	350	334	392	4,443	4	4,004	3
OR	1,913	2,326	2,213	2,269	22,697	6	23,212	6
PA	4,487	5,211	7,223	8,706	88,618	5	61,501	5
TN							31,122	1
WA	6,231	5,979	5,134	6,041	71,902	2	91,230	3
WI	20,756	24,180	27,155	29,145	303,011	12	303,444	13
Oth Sts <sup>1</sup>	15,164	22,697	22,603	28,052	277,475	30	236,959	31
US	68,218	88,497	91,128	106,320	1,081,879	86	1,151,250	91
N Atl	8,333	12,038	12,901	14,889	146,977	17	112,469	16
S Atl	961	1,073	1,813	2,694	31,455	3	34,265	3
E N Cen	24,190	29,084	32,782	37,010	373,318	20	383,237	23
W N Cen	10,593	10,905	11,689	12,156	131,327	14	117,984	13
S Cen	2,769	5,415	4,407	7,015	68,128	5	68,184	5
West	21,372	29,982	27,536	32,556	330,674	27	435,111	31

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

**Sweetened Condensed Whole Milk, Bulk: Production by Month,  
State, and United States, 1998 and Total 1997-98**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
WI	5,684	4,963	5,482	4,550	4,327	4,714	6,274	5,081
Oth Sts <sup>1</sup>	2,748	2,281	2,071	1,916	2,187	2,093	2,423	1,775
US	8,432	7,244	7,553	6,466	6,514	6,807	8,697	6,856
	1998						1997	
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Number</i>	<i>1,000 Lbs</i>	<i>Number</i>
WI	4,870	4,804	3,882	2,452	57,083	3	80,731	3
Oth Sts <sup>1</sup>	1,545	1,607	1,343	694	22,683	3	53,905	3
US	6,415	6,411	5,225	3,146	79,766	6	134,636	6

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

**Unsweetened Condensed Whole Milk, Bulk: Production by Month,  
State, and United States, 1998 and Total 1997-98**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
US	8,268	7,544	8,267	7,575	7,676	7,928	9,206	9,211
Atlantic	3,643	3,555	3,965	2,988	3,394	4,110	5,490	5,654
Central	1,541	1,163	1,472	1,508	1,192	1,583	1,267	1,243
West	3,084	2,826	2,830	3,079	3,090	2,235	2,449	2,314
	1998						1997	
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Number</i>	<i>1,000 Lbs</i>	<i>Number</i>
US	8,061	6,073	5,246	6,627	91,682	13	93,851	10
Atlantic	4,139	3,081	2,670	3,529	46,218	5	40,264	3
Central	1,773	881	694	578	14,895	5	16,001	4
West	2,149	2,111	1,882	2,520	30,569	3	37,586	3



**Unsweetened Condensed Skim Milk, Bulk: Production by Month,  
State, and United States, 1998 and Total 1997-98**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
CA	40,882	35,481	45,194	42,615	45,270	43,152	48,320	48,731
MI								
MO	1,807	2,439	2,917	2,896	770	1,450	2,685	2,323
NM				917	917			
Oth Sts <sup>1</sup>	33,261	36,738	46,620	47,588	48,588	54,914	45,542	41,106
US	75,950	74,658	94,731	94,016	95,545	99,516	96,547	92,160
N Atl	10,588	11,035	12,457	13,467	13,498	13,941	16,305	15,195
S Atl	7,548	8,005	8,388	8,060	9,240	11,891	12,061	8,568
E N Cen	6,950	7,052	10,797	13,320	11,758	14,460	10,287	11,312
W N Cen	2,019	3,030	4,727	4,802	3,475	4,987	5,044	4,008
S Cen	6,305	8,668	11,530	9,343	9,448	9,039	2,535	2,592
West	42,540	36,868	46,832	45,024	48,126	45,198	50,315	50,485
	1998						1997	
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Number</i>	<i>1,000 Lbs</i>	<i>Number</i>
CA	52,781	49,796	47,814	47,679	547,715	14	499,447	13
MI							51,876	3
MO	1,988	919	1,164	1,531	22,889	4		
NM	574	269			2,677	1	7,165	1
Oth Sts <sup>1</sup>	32,804	31,537	31,916	31,799	482,413	27	441,701	24
US	88,147	82,521	80,894	81,009	1,055,694	46	1,000,189	41
N Atl	11,203	11,029	9,653	11,541	149,912	10	153,687	8
S Atl	6,620	7,769	8,928	6,591	103,669	2	82,288	2
E N Cen	8,743	7,914	8,182	8,459	119,234	6	127,989	8
W N Cen	3,881	1,945	1,935	1,831	41,684	8	30,405	6
S Cen	2,715	2,183	2,938	3,604	70,900	4	77,494	2
West	54,985	51,681	49,258	48,983	570,295	16	528,326	15

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

**Yogurt, Plain and Flavored: Production by Month, State,  
and United States, 1998 and Total 1997-98**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
CA	15,935	16,819	17,559	15,821	15,669	15,644	15,554	17,873
IL	1,554	1,214	1,365	1,374	1,335	1,535	1,393	1,281
NY	16,502	16,835	19,723	19,425	19,080	21,636	16,956	20,230
ND	1	3	3	2	3	1	3	1
TN	24	19	42	22	20	34	25	16
WI	2,763	3,182	3,365	2,945	3,360	3,252	3,393	3,369
Oth Sts <sup>1</sup>	92,383	96,876	120,078	91,715	95,944	108,475	85,334	88,295
US	129,162	134,948	162,135	131,304	135,411	150,577	122,658	131,065
N Atl	27,646	27,939	33,688	32,249	32,651	36,719	28,888	32,241
S Atl	8,494	8,295	13,135	6,553	5,875	7,559	5,132	5,127
E N Cen	44,330	47,232	57,623	44,128	46,075	53,421	45,008	45,617
W N Cen	4,915	4,327	4,907	4,848	4,612	4,489	3,893	3,173
S Cen	18,405	20,011	23,905	17,629	18,462	21,664	13,818	16,097
West	25,372	27,144	28,877	25,897	27,736	26,725	25,919	28,810
	1998						1997	
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Number</i>	<i>1,000 Lbs</i>	<i>Number</i>
CA	18,318	18,498	15,023	17,650	200,363	18	189,561	30
IL	1,384	1,378	1,304	1,218	16,335	4	13,903	5
NY	25,967	20,450	16,047	20,275	233,126	16	203,204	16
ND	3	1	1	1	23	1	28	1
TN	21	18	18	18	277	1	405	1
WI	3,397	3,929	3,714	3,909	40,578	3		
Oth Sts <sup>1</sup>	101,114	86,514	79,830	78,778	1,125,336	47	1,166,949	52
US	150,204	130,788	115,937	121,849	1,616,038	90	1,574,050	105
N Atl	38,561	34,318	27,340	32,164	384,404	23	356,700	23
S Atl	2,304	1,990	2,124	2,356	68,944	6	103,004	7
E N Cen	56,457	45,050	42,107	42,853	569,901	14	550,530	16
W N Cen	3,428	3,328	2,635	2,928	47,483	10	57,304	10
S Cen	20,822	17,141	15,764	14,277	217,995	7	201,729	7
West	28,632	28,961	25,967	27,271	327,311	30	304,783	42

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

**Nonfat Dry Milk for Human Food: Production by Month,  
State, and United States, 1998 and Total 1997-98**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
CA	47,169	37,594	42,066	46,886	48,521	41,878	41,255	37,247
IA								
MN & WI	2,173	2,287	1,710	1,828	2,608	1,021	1,509	1,343
NM	2,644	3,015	4,938	5,285	5,405	5,498	3,406	2,950
ND	20						93	26
PA	7,804	7,979	9,096	9,638	8,304	7,611	5,075	4,884
WA	12,157	10,257	12,526	12,809	12,928	12,498	11,867	12,112
Oth Sts <sup>1</sup>	32,829	37,303	36,366	43,294	41,964	30,912	22,456	20,280
US	104,796	98,435	106,702	119,740	119,730	99,418	85,661	78,842
Atlantic	21,211	21,590	22,854	24,854	21,915	18,325	11,301	9,807
E N Cen	4,806	5,968	3,208	7,475	8,702	5,223	4,601	1,781
W N Cen	7,939	7,455	7,346	7,345	8,420	7,300	6,701	6,388
S Cen	3,336	8,157	8,874	9,776	7,078	2,069	1,962	6,440
West	67,504	55,265	64,420	70,290	73,615	66,501	61,096	54,426
	1998						1997	
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Number</i>	<i>1,000 Lbs</i>	<i>Number</i>
CA	34,162	41,544	39,468	49,345	507,135	10	548,512	10
IA							58,228	3
MN & WI	1,112	1,253	1,713	2,855	21,412	6	34,261	5
NM	303	1,402	1,114	3,175	39,135	1	23,723	1
ND	47	61	42		289	1	386	1
PA	2,350	2,438	3,542	6,705	75,426	4		
WA	11,226	10,579	9,684	11,518	140,161	3	171,648	3
Oth Sts <sup>1</sup>	13,106	17,762	18,288	37,265	351,825	23	380,804	24
US	62,306	75,039	73,851	110,863	1,135,383	48	1,217,562	47
Atlantic	6,690	7,613	8,543	17,342	192,045	10	222,796	10
E N Cen	1,345	1,471	2,759	9,622	56,961	8	71,406	9
W N Cen	6,280	6,331	6,613	9,033	87,151	7	88,790	7
S Cen	96	2,756	2,111	6,379	59,034	6	40,632	4
West	47,895	56,868	53,825	68,487	740,192	17	793,938	17

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

**Dry Skim Milk for Animal Feed: Production by Month, State,  
and United States, 1998 and Total 1997-98**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
CA	177	128	160	109	160	142	183	148
MI								
WA	59	57	77	111	58	108		53
Oth Sts <sup>1</sup>	102	256	198	286	244	275	253	192
US	338	441	435	506	462	525	436	393
Atlantic	26	60	56	103	46	54	63	34
Central	63	189	136	168	190	205	176	148
West	249	192	243	235	226	266	197	211
	1998						1997	
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Number</i>	<i>1,000 Lbs</i>	<i>Number</i>
CA	172	144	172	157	1,852	10	2,325	10
MI							276	3
WA	64	59	27	34	707	3	706	3
Oth Sts <sup>1</sup>	85	78	71	171	2,211	16	1,984	15
US	321	281	270	362	4,770	29	5,291	31
Atlantic	31	30	25	86	614	5	1,028	5
Central	45	33	35	72	1,460	10	1,078	12
West	245	218	210	204	2,696	14	3,185	14

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

**Dry Buttermilk: Production by Month, State,  
and United States, 1998 and Total 1997-98**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
CA	3,280	2,324	2,336	2,264	2,444	1,434	1,444	1,697
MI	358	261	336	354	327	265	268	103
MN	838	799	554	669	482	215	219	108
Oth Sts <sup>1</sup>	2,263	2,047	1,932	1,818	1,923	1,519	1,045	974
US	6,739	5,431	5,158	5,105	5,176	3,433	2,976	2,882
	1998						1997	
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Number</i>	<i>1,000 Lbs</i>	<i>Number</i>
CA	1,708	2,369	2,382	2,955	26,637	7	27,352	8
MI	107	124	162	229	2,894	3	3,913	3
MN	128	342	426	569	5,349	4		
Oth Sts <sup>1</sup>	623	830	935	1,488	17,397	14	18,043	16
US	2,566	3,665	3,905	5,241	52,277	28	49,308	27

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

**Lactose: Production by Month, State,  
and United States, 1998 and Total 1997-98 <sup>1</sup>**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
MN	10,622	8,851	12,680	10,996	11,880	10,778	10,172	9,678
WI	8,269	8,048	9,516	8,256	8,004	8,029	7,871	7,709
Oth Sts <sup>2</sup>	19,769	18,256	20,408	21,008	21,213	19,870	23,000	21,711
US	38,660	35,155	42,604	40,260	41,097	38,677	41,043	39,098
E N Cen	9,318	8,987	10,504	9,293	9,090	9,108	8,960	8,770
W N Cen	15,776	13,597	18,225	16,776	17,634	16,388	15,846	15,007
West	11,818	10,858	12,290	12,445	12,772	11,630	14,444	13,451
	1998					1997		
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Number</i>	<i>1,000 Lbs</i>	<i>Number</i>
MN	9,263	6,638	7,565	8,474	117,597	6	112,751	6
WI	7,268	7,558	7,105	7,356	94,989	9	100,167	9
Oth Sts <sup>2</sup>	20,217	22,616	24,997	23,298	256,363	14	221,803	11
US	36,748	36,812	39,667	39,128	468,949	29	434,721	26
E N Cen	8,172	8,573	8,228	8,261	107,264	10	111,167	9
W N Cen	14,622	12,084	13,003	13,892	182,850	10	177,022	10
West	11,962	13,534	16,516	15,537	157,257	7	126,903	5

<sup>1</sup> Includes product made for both human food and animal feed.

<sup>2</sup> States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

**Whey Protein Concentrate, Human: Production by Month, State,  
and United States, 1998 and Total 1997-98 <sup>1</sup>**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
CA	3,918	3,855	4,446	4,448	4,832	3,889	6,165	5,207
MN	4,133	4,007	4,614	4,233	5,020	4,591	4,449	4,230
WI	2,128	2,300	2,220	2,450	2,615	2,950	2,654	2,733
Oth Sts <sup>2</sup>	8,366	8,373	8,849	8,966	9,309	8,827	9,036	8,638
US	18,545	18,535	20,129	20,097	21,776	20,257	22,304	20,808
Central West	10,831	10,994	11,616	11,428	12,672	12,544	11,277	10,960
	7,631	7,432	8,454	8,580	9,004	7,565	10,927	9,793
	1998					1997		
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Number</i>	<i>1,000 Lbs</i>	<i>Number</i>
CA	5,233	5,448	5,408	7,492	60,341	9	41,957	7
MN	3,673	4,363	4,415	4,702	52,430	6	61,385	6
WI	2,416	2,205	1,999	3,344	30,014	8	31,206	6
Oth Sts <sup>2</sup>	8,484	8,924	8,574	8,819	105,165	9	93,718	8
US	19,806	20,940	20,396	24,357	247,950	32	228,266	27
Central West	10,107	10,603	10,383	12,433	135,848	19	148,661	16
	9,555	10,197	9,950	11,818	110,906	12	78,468	10

<sup>1</sup> Contains not less than 25.0 percent or more than 79.9 percent protein.

<sup>2</sup> States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

**Dry Whey, Human Food: Production by Month, State,  
and United States, 1998 and Total 1997-98**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
CA	9,304	8,719	9,549	9,083	10,216	9,829	9,688	9,687
MN	8,998	9,305	9,256	9,459	10,054	10,221	9,925	8,621
NY	9,221	8,673	9,698	9,572	10,624	9,170	9,630	9,159
PA	9,311	8,175	9,508	9,358	8,626	8,830	8,635	7,618
UT	1,525	1,257	1,289	1,102	1,837	2,124	2,095	1,708
WA	6,662	6,675	7,413	7,656	8,715	8,540	8,844	8,169
WI	24,152	22,867	24,193	22,898	25,096	24,313	26,382	24,978
Oth Sts <sup>1</sup>	23,896	22,154	21,350	21,025	22,797	23,305	23,192	22,667
US	93,069	87,825	92,256	90,153	97,965	96,332	98,391	92,607
Atlantic	20,011	18,055	20,507	20,259	20,451	19,220	19,688	17,767
Central	44,465	42,024	43,095	41,446	45,410	45,235	46,763	43,580
West	28,593	27,746	28,654	28,448	32,104	31,877	31,940	31,260
	1998						1997	
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Number</i>	<i>1,000 Lbs</i>	<i>Number</i>
CA	9,430	10,192	10,174	10,530	116,401	6	113,496	7
MN	6,502	6,322	7,002	8,065	103,730	8	107,163	7
NY	9,275	9,236	8,830	9,954	113,042	5	111,363	5
PA	7,409	7,108	8,218	9,582	102,378	4	69,537	4
UT	1,679	949	1,616	1,840	19,021	2	21,471	2
WA	7,031	7,013	8,502	8,287	93,507	3	55,377	3
WI	22,319	22,470	21,797	24,988	286,453	10	309,901	9
Oth Sts <sup>1</sup>	19,458	20,311	19,327	21,369	260,851	11	288,221	10
US	83,103	83,601	85,466	94,615	1,095,383	49	1,076,529	47
Atlantic	16,737	16,344	17,048	19,536	225,623	10	200,317	10
Central	37,127	37,804	37,273	42,961	507,183	25	564,797	22
West	29,239	29,453	31,145	32,118	362,577	14	311,415	15

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

**Dry Whey, Animal Feed: Production by Month, State,  
and United States, 1998 and Total 1997-98**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
MN	500	248	172	172	258	381	70	205
NY	95	237	95	606	392	1,535	246	187
UT	266	671	432	776	725	104	80	478
WA	50	38	102	98	35	102	190	60
WI	2,795	1,654	1,916	2,592	2,324	2,332	1,998	2,359
Oth Sts <sup>1</sup>	3,295	2,861	3,909	4,420	3,962	3,849	3,792	3,325
US	7,001	5,709	6,626	8,664	7,696	8,303	6,376	6,614
Atlantic	125	298	119	631	426	1,570	296	205
Central	5,852	4,084	5,108	6,431	5,601	5,709	5,174	5,243
West	1,024	1,327	1,399	1,602	1,669	1,024	906	1,166
	1998						1997	
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Number</i>	<i>1,000 Lbs</i>	<i>Number</i>
MN	155	155	160	266	2,742	4	6,897	5
NY	89	234	89	263	4,068	5	1,304	5
UT	472	965	505	508	5,982	2	2,278	2
WA	65	100	88	196	1,124	3	639	3
WI	2,433	2,734	2,840	2,369	28,346	11	26,042	12
Oth Sts <sup>1</sup>	3,241	2,987	2,937	3,601	42,179	14	23,135	13
US	6,455	7,175	6,619	7,203	84,441	39	60,295	40
Atlantic	156	333	213	313	4,685	7	1,765	7
Central	5,174	5,106	4,951	5,346	63,779	22	52,965	24
West	1,125	1,736	1,455	1,544	15,977	10	5,565	9

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



**Ice Cream, Regular, Total: Production by Month, State,  
and United States, 1998 and Total 1997-98<sup>1</sup>**

State	1998						
	Jan	Feb	Mar	Apr	May	Jun	Jul
	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>
AZ	361	317	443	494	812	791	596
CA	6,816	8,554	10,898	11,008	10,680	12,100	11,024
FL	1,889	2,017	2,436	2,131	2,261	2,379	2,440
ID	491	489	563	578	623	607	728
IL							
IN	4,108	5,393	6,460	6,002	5,688	5,483	5,839
KS							
KY							
MI	1,644	1,765	2,007	2,271	2,319	2,807	2,643
MN	2,511	2,810	3,874	3,934	4,069	5,244	3,704
MO	1,598	1,532	1,847	1,890	1,662	2,115	1,906
NM	219	395	400	400	401	401	401
NY	2,643	2,824	2,899	3,250	3,261	4,056	3,448
NC	1,570	1,580	1,879	1,941	2,025	2,725	2,403
ND	61	101	69	82	96	151	111
OH	3,225	3,537	3,797	3,557	3,713	3,997	3,911
OR	875	910	1,012	865	979	1,023	937
PA	3,577	3,425	4,295	4,544	4,699	5,399	5,323
SC	820	998	1,170	1,302	891	986	1,065
TN	1,005	1,238	1,662	1,161	1,634	1,863	1,697
TX	3,838	4,475	5,014	5,529	5,272	6,745	6,311
UT	768	802	1,055	1,074	1,388	1,610	1,103
WA	1,364	1,403	1,892	2,088	1,790	2,002	2,340
WI	848	820	1,055	1,109	1,072	1,186	1,171
Oth Sts <sup>2</sup>	25,635	27,277	29,878	32,946	32,014	32,825	35,122
US	65,866	72,662	84,605	88,156	87,349	96,495	94,223
N Atl	15,652	15,155	17,814	20,045	19,174	20,218	20,727
S Atl	7,807	8,139	9,221	9,843	9,336	10,257	10,027
E N Cen	12,180	14,436	16,975	16,238	16,118	17,318	16,939
W N Cen	8,567	10,622	11,399	11,913	12,455	14,618	13,938
S Cen	8,064	8,828	10,119	10,392	10,823	13,006	12,302
West	13,596	15,482	19,077	19,725	19,443	21,078	20,290

See footnotes at end of table.

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**Ice Cream, Regular, Total: Production by Month, State, and United States,  
1998 and Total 1997-98<sup>1</sup> (continued)**

State	1998						1997
	Aug	Sep	Oct	Nov	Dec	Total	Total
	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>
AZ	631	469	259	384	201	5,758	
CA	11,632	11,472	8,063	7,079	6,866	116,192	116,151
FL	2,157	1,832	2,018	1,913	2,117	25,590	23,945
ID	626	525	331	394	500	6,455	7,054
IL							35,482
IN	5,032	5,593	4,551	4,559	5,543	64,251	61,497
KS							3,715
KY							4,954
MI	2,502	2,159	1,591	1,168	1,322	24,198	27,973
MN	3,259	3,815	3,498	2,696	3,107	42,521	41,593
MO	1,817	1,568	1,600	1,241	1,026	19,802	15,096
NM	401	401	401	401	401	4,622	4,813
NY	2,796	2,622	2,523	1,754	1,929	34,005	33,353
NC	1,740	1,548	1,619	1,141	1,432	21,603	22,994
ND	111	103	90	81	85	1,141	1,126
OH	3,494	3,186	3,008	2,385	2,617	40,427	40,972
OR	1,013	805	760	612	751	10,542	10,374
PA	4,383	3,951	4,045	2,863	2,614	49,118	
SC	983	739	804	506	573	10,837	
TN	1,429	1,698	1,437	992	1,141	16,957	14,166
TX	4,876	4,843	4,559	3,866	3,840	59,168	53,393
UT	1,204	923	891	1,023	788	12,629	14,437
WA	2,097	1,952	1,104	1,049	1,056	20,137	20,670
WI	1,013	925	898	669	723	11,489	13,042
Oth Sts <sup>2</sup>	30,411	27,777	26,452	18,902	20,804	340,043	346,970
US	83,607	78,906	70,502	55,678	59,436	937,485	913,770
N Atl	18,103	15,970	14,677	9,925	10,695	198,155	198,050
S Atl	8,543	7,047	7,900	5,886	6,525	100,531	101,754
E N Cen	15,563	14,983	12,862	10,994	12,916	177,522	178,966
W N Cen	11,309	11,889	11,185	8,442	9,521	135,858	122,009
S Cen	9,993	10,237	9,245	7,647	7,719	118,375	106,554
West	20,096	18,780	14,633	12,784	12,060	207,044	206,437

<sup>1</sup> Contains minimum milkfat content of 10 percent and not less than 4.5 pounds per gallon.

<sup>2</sup> States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

**Ice Cream, Regular, Hard: Production by Month, State,  
and United States, 1998 and Total 1997-98**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>
AR								
CA	6,067	7,672	9,775	9,885	9,593	10,856	9,840	10,424
FL	1,716	1,841	2,222	1,941	2,062	2,171	2,221	1,970
GA	596	621	666	640	650	918	520	608
IL	2,298	2,854	3,564	3,214	3,237	3,741	3,282	3,429
IN	4,088	5,367	6,429	5,973	5,662	5,458	5,811	5,009
KS								
KY								
ME	154	160	227	233	268	325	336	256
MD	1,343	1,586	1,801	1,950	1,891	2,121	1,928	1,618
MA	5,214	4,244	4,720	6,084	5,475	4,512	6,044	5,484
MI	1,582	1,697	1,930	2,185	2,230	2,699	2,541	2,407
MN	2,440	2,736	3,774	3,832	3,955	5,102	3,606	3,178
MO								
NH	29	26	25	41	37	40	54	47
NM	219	395	400	400	401	401	401	401
NY	2,371	2,518	2,547	2,813	2,824	3,517	2,938	2,418
NC	1,514	1,524	1,813	1,873	1,953	2,630	2,321	1,678
ND	61	101	69	82	96	151	111	111
OH	3,225	3,537	3,797	3,557	3,713	3,997	3,911	3,494
OR	801	826	919	780	888	929	836	916
PA	3,217	3,082	3,867	4,090	4,225	4,873	4,801	3,928
SD	3	3	2	2	2	2	2	3
TN	853	1,095	1,471	1,016	1,448	1,641	1,481	1,245
TX	3,451	4,047	4,528	4,986	4,758	6,115	5,681	4,390
UT	644	677	912	933	1,166	1,357	969	1,053
VT								
WA	1,318	1,355	1,825	2,012	1,727	1,932	2,257	2,025
WI	653	625	822	838	829	918	899	766
Oth Sts <sup>1</sup>	16,899	18,630	20,178	22,046	21,479	22,490	23,924	20,212
US	60,756	67,219	78,283	81,406	80,569	88,896	86,715	77,070
N Atl	14,003	13,395	15,821	17,727	16,913	17,751	18,150	15,988
S Atl	7,487	7,787	8,789	9,447	8,909	9,805	9,585	8,175
E N Cen	11,846	14,080	16,542	15,767	15,671	16,813	16,444	15,105
W N Cen	7,824	9,790	10,490	10,987	11,475	13,478	12,829	10,390
S Cen	7,281	8,130	9,306	9,573	9,988	12,015	11,315	9,184
West	12,315	14,037	17,335	17,905	17,613	19,034	18,392	18,228

See footnotes at end of table.

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**Ice Cream, Regular, Hard: Production by Month, State, and United States,  
1998 and Total 1997-98 (continued)**

State	1998					1997		
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>Number</i>	<i>1,000 Gal</i>	<i>Number</i>
AR							3,302	3
CA	10,300	7,217	6,318	6,165	104,112	26	105,763	25
FL	1,674	1,840	1,744	1,932	23,334	21	22,699	21
GA	638	337	462	476	7,132	4	9,832	5
IL	3,040	2,745	2,156	2,645	36,205	20	35,482	20
IN	5,567	4,530	4,538	5,519	63,951	16	61,255	16
KS							3,565	3
KY							4,889	8
ME	148	96	96	113	2,412	8	1,823	6
MD	1,420	1,500	993	1,179	19,330	9	18,804	8
MA	4,097	2,831	2,300	4,022	55,027	16	56,444	16
MI	2,077	1,533	1,122	1,273	23,276	20	26,744	22
MN	3,714	3,409	2,621	3,033	41,400	4	41,104	4
MO							15,048	8
NH	36	23	27	29	414	4		
NM	401	401	401	401	4,622	1	4,813	1
NY	2,312	2,247	1,563	1,691	29,759	59	29,019	58
NC	1,494	1,562	1,102	1,383	20,847	12	22,593	12
ND	103	90	81	85	1,141	3	1,081	3
OH	3,186	3,008	2,385	2,617	40,427	31	40,972	34
OR	726	691	553	681	9,546	10	9,988	10
PA	3,558	3,646	2,574	2,349	44,210	38	46,263	39
SD	3	2	2	2	28	3	34	3
TN	1,516	1,255	875	1,012	14,908	3	12,553	3
TX	4,363	4,108	3,484	3,476	53,387	13	48,767	12
UT	810	780	877	691	10,869	11	10,423	11
VT							10,579	6
WA	1,886	1,064	1,010	1,018	19,429	7	20,198	7
WI	708	678	506	553	8,795	16		
Oth Sts <sup>1</sup>	19,074	19,251	13,681	13,113	230,977	102	190,042	96
US	72,851	64,844	51,471	55,458	865,538	457	854,079	460
N Atl	14,023	12,875	8,811	9,785	175,242	149	176,737	147
S Atl	6,727	7,557	5,598	6,200	96,066	55	98,339	55
E N Cen	14,578	12,494	10,707	12,607	172,654	103	172,951	110
W N Cen	11,015	10,154	7,806	8,859	125,097	31	118,337	30
S Cen	9,439	8,479	7,018	7,096	108,824	38	98,908	38
West	17,069	13,285	11,531	10,911	187,655	81	188,807	80

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

**Ice Cream, Lowfat, Total: Production by Month, State,  
and United States, 1998 and Total 1997-98<sup>1</sup>**

State	1998						
	Jan	Feb	Mar	Apr	May	Jun	Jul
	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>
CA <sup>2</sup>	2,351	2,891	3,419	3,625	3,569	5,232	4,474
CO							
FL	1,320	1,503	1,560	1,726	1,747	1,682	1,735
ID	232	392	385	438	556	650	600
IL							
IN	1,567	1,775	2,572	2,032	1,777	2,361	2,190
KS							
LA	234	228	190	270	323	337	294
MD <sup>3</sup>	380	391	564	362	548	587	606
MI	817	1,061	1,454	1,753	2,470	2,119	2,388
MN							
MO	1,223	1,214	1,469	1,766	1,871	1,691	1,872
MT	56	80	124	125	173	166	223
NM	7	6	6	6	6	6	6
NY	551	509	522	625	698	701	874
NC	871	766	1,182	1,248	1,241	1,260	1,281
ND	68	76	136	140	162	161	207
OH	1,342	1,519	2,104	2,711	3,012	3,789	2,696
OR <sup>4</sup>	355	358	446	554	496	712	708
PA	777	977	1,188	1,504	1,336	1,667	1,631
TN	588	509	520	651	816	739	741
UT	354	410	526	553	680	739	699
WI	507	714	857	1,014	1,249	1,430	1,462
Oth Sts <sup>5</sup>	11,361	12,126	15,543	16,528	18,221	19,225	19,488
US	24,961	27,505	34,767	37,631	40,951	45,254	44,175
N Atl	3,272	3,552	4,981	5,220	5,500	5,672	5,926
S Atl	4,021	4,174	5,392	5,522	5,740	6,041	6,259
E N Cen	5,860	6,839	9,163	9,823	11,166	12,541	11,621
W N Cen	2,996	3,519	3,823	4,311	4,903	5,106	5,164
S Cen	3,520	3,472	4,268	4,860	5,393	5,525	5,559
West	5,292	5,949	7,140	7,895	8,249	10,369	9,646

See footnotes at end of table.

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**Ice Cream, Lowfat, Total: Production by Month, State, and United States, 1998 and Total 1997-98 <sup>1</sup> (continued)**

State	1998						1997
	Aug	Sep	Oct	Nov	Dec	Total	Total
	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>
CA <sup>2</sup>	4,716	3,834	3,013	3,008	2,847	42,979	39,014
CO							7,235
FL	1,572	1,410	1,617	1,374	1,581	18,827	
ID	476	386	353	279	303	5,050	
IL							30,147
IN	2,202	2,153	2,191	2,073	2,207	25,100	23,138
KS							2,475
LA	294	256	270	233	227	3,156	3,055
MD <sup>3</sup>	538	668	444	321	329	5,738	4,722
MI	1,747	1,599	1,156	893	1,126	18,583	19,131
MN							8,477
MO	1,666	1,668	1,637	1,246	1,191	18,514	
MT	164	118	89	77	94	1,489	1,489
NM	6	6	6	6	6	73	305
NY	764	709	637	578	644	7,812	9,333
NC	1,238	1,188	1,077	694	983	13,029	10,410
ND	130	139	66	46	49	1,380	1,129
OH	2,343	1,611	782	610	638	23,157	
OR <sup>4</sup>	679	466	416	369	366	5,925	5,989
PA	1,509	1,011	1,025	634	678	13,937	
TN	625	591	496	452	493	7,221	5,955
UT	537	429	416	314	345	6,002	13,082
WI	791	641	451	272	772	10,160	7,998
Oth Sts <sup>5</sup>	17,765	15,719	12,918	11,260	11,032	181,186	192,605
US	39,762	34,602	29,060	24,739	25,911	409,318	385,689
N Atl	5,995	4,550	3,606	3,117	3,546	54,937	58,044
S Atl	5,347	5,233	4,757	3,744	4,270	60,500	55,309
E N Cen	9,537	8,104	6,489	5,403	6,234	102,780	97,820
W N Cen	4,509	4,386	3,735	3,244	2,962	48,658	40,326
S Cen	4,949	4,725	4,061	3,514	3,341	53,187	50,074
West	9,425	7,604	6,412	5,717	5,558	89,256	84,116

<sup>1</sup> Includes hard, soft-serve, and freezer-made milkshake. Contains less than 10 percent milkfat required for ice cream.

<sup>2</sup> Includes freezer-made "milk drink".

<sup>3</sup> Includes District of Columbia.

<sup>4</sup> Includes substandard ice cream.

<sup>5</sup> States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

**Ice Cream, Lowfat, Hard: Production by Month, State, and  
United States, 1998 and Total 1997-98**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>
CA	553	799	837	847	791	1,539	945	1,088
FL	134	200	174	206	194	196	233	186
GA	129	139	152	150	147	160	158	100
IL	207	213	252	251	298	253	319	255
IN	1,544	1,757	2,539	2,000	1,744	2,323	2,154	2,169
KS								
MI	116	168	258	365	509	174	220	105
MO	435	414	440	510	491	379	457	292
MT	7	10	19	11	17	14	18	20
NM	4	4	4	4	4	5	5	5
NY	126	98	77	90	104	107	123	118
NC	60	64	85	115	120	127	136	117
ND	17	9	30	4	11	9	17	5
OH	170	141	254	244	257	314	290	287
OR	58	56	50	93	50	113	84	124
PA	231	286	258	400	323	463	361	351
TN	154	105	116	131	209	132	134	105
TX								
VT								
WI	30	42	39	30	32	57	40	31
Oth Sts <sup>1</sup>	2,739	2,847	3,808	3,736	3,725	4,143	4,082	3,558
US	6,714	7,352	9,392	9,187	9,026	10,508	9,776	8,916
N Atl	859	881	1,201	1,260	1,152	1,254	1,198	1,205
S Atl	710	770	1,012	1,058	924	970	1,160	791
E N Cen	2,067	2,321	3,342	2,890	2,840	3,121	3,023	2,847
W N Cen	980	1,212	1,168	1,165	1,265	1,401	1,293	1,027
S Cen	1,010	962	1,308	1,307	1,471	1,530	1,533	1,288
West	1,088	1,206	1,361	1,507	1,374	2,232	1,569	1,758

See footnotes at end of table.

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**Ice Cream, Lowfat, Hard: Production by Month, State, and  
United States, 1998 and Total 1997-98 (continued)**

State	1998						1997	
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>Number</i>	<i>1,000 Gal</i>	<i>Number</i>
CA	860	725	688	625	10,297	22	13,869	21
FL	141	164	138	161	2,127	10	1,965	9
GA	172	89	101	90	1,587	4	1,876	4
IL	244	237	181	162	2,872	10	3,309	11
IN	2,121	2,163	2,048	2,178	24,740	11	21,338	11
KS							321	2
MI	260	168	112	185	2,640	12	1,499	12
MO	418	480	392	436	5,144	7		
MT	14	12	7	10	159	3	182	3
NM	5	5	5	5	55	1	44	1
NY	134	102	94	109	1,282	7	1,497	6
NC	103	76	39	65	1,107	8	1,054	9
ND	24	3	6	9	144	2	152	2
OH	213	165	137	125	2,597	19	6,868	20
OR	65	74	97	108	972	8	949	8
PA	230	288	164	176	3,531	18	3,530	18
TN	128	92	48	89	1,443	3	1,686	3
TX							8,431	6
VT							397	3
WI	38	32	19	32	422	8	432	8
Oth Sts <sup>1</sup>	3,588	2,812	2,448	2,389	39,875	79	36,204	74
US	8,758	7,687	6,724	6,954	100,994	232	105,603	231
N Atl	930	748	600	715	12,003	37	12,336	37
S Atl	889	735	565	603	10,187	32	11,155	31
E N Cen	2,876	2,765	2,497	2,682	33,271	60	33,446	62
W N Cen	1,182	1,090	989	963	13,735	22	15,056	20
S Cen	1,417	1,074	937	801	14,638	23	12,976	23
West	1,464	1,275	1,136	1,190	17,160	58	20,634	58

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



**Ice Cream, Lowfat, Soft: Production by Month, State, and  
United States, 1998 and Total 1997-98**

State	1998						
	Jan	Feb	Mar	Apr	May	Jun	Jul
	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>
MT	49	70	105	114	156	152	205
NM	3	2	2	2	2	1	1
NY	425	411	445	535	594	594	751
ND	51	67	106	136	151	152	190
OR	297	302	396	461	446	599	624
PA	546	691	930	1,104	1,013	1,204	1,270
TN							
WI							
Oth Sts <sup>1</sup>	16,876	18,610	23,391	26,092	29,563	32,044	31,358
US	18,247	20,153	25,375	28,444	31,925	34,746	34,399
N Atl	2,413	2,671	3,780	3,960	4,348	4,418	4,728
S Atl	3,311	3,404	4,380	4,464	4,816	5,071	5,099
E N Cen	3,793	4,518	5,821	6,933	8,326	9,420	8,598
W N Cen	2,016	2,307	2,655	3,146	3,638	3,705	3,871
S Cen	2,510	2,510	2,960	3,553	3,922	3,995	4,026
West	4,204	4,743	5,779	6,388	6,875	8,137	8,077
	1998						1997
	Aug	Sep	Oct	Nov	Dec	Total	Total
	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>
MT	144	104	77	70	84	1,330	1,307
NM	1	1	1	1	1	18	261
NY	646	575	535	484	535	6,530	7,836
ND	125	115	63	40	40	1,236	977
OR	555	401	342	272	258	4,953	5,040
PA	1,158	781	737	470	502	10,406	
TN							4,269
WI							7,566
Oth Sts <sup>1</sup>	28,217	23,867	19,618	16,678	17,537	283,851	252,830
US	30,846	25,844	21,373	18,015	18,957	308,324	280,086
N Atl	4,790	3,620	2,858	2,517	2,831	42,934	45,708
S Atl	4,556	4,344	4,022	3,179	3,667	50,313	44,154
E N Cen	6,690	5,228	3,724	2,906	3,552	69,509	64,374
W N Cen	3,482	3,204	2,645	2,255	1,999	34,923	25,270
S Cen	3,661	3,308	2,987	2,577	2,540	38,549	37,098
West	7,667	6,140	5,137	4,581	4,368	72,096	63,482

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

**Other Frozen Dairy Products: Production by Month, State,  
and United States, 1998 and Total 1997-98**

							Jul	Aug
	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>
IL	46	22	84	67	50	68	67	48
IA								
NY								
OH								
TN	20	27	47	50	41	45	52	27
Oth Sts <sup>1</sup>	1,114	1,062	1,162	1,317	1,082	1,301	1,389	1,007
US	1,180	1,111	1,293	1,434	1,173	1,414	1,508	1,082
N Atl	115	160	101	169	141	199	197	142
S Atl	625	564	684	783	657	565	737	535
E N Cen	267	126	222	211	204	243	247	209
W N Cen	20	20	22	31	26	48	34	18
S Cen	91	158	234	189	126	337	264	90
West	62	83	30	51	19	22	29	88
	1998						1997	
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>Number</i>	<i>1,000 Gal</i>	<i>Number</i>
IL	48	59	75	67	701	3		
IA							484	3
NY							1,281	7
OH							834	5
TN	295	52	33	56	745	2	514	2
Oth Sts <sup>1</sup>	1,096	1,280	970	702	13,482	43	9,718	31
US	1,439	1,391	1,078	825	14,928	48	12,831	48
N Atl	130	117	67	55	1,593	12	1,913	13
S Atl	501	674	500	385	7,210	8	5,906	6
E N Cen	203	203	162	162	2,459	11	2,099	12
W N Cen	21	9	2	4	255	5	1,032	7
S Cen	559	373	267	210	2,898	7	1,233	6
West	25	15	80	9	513	5	648	4

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

**Sherbet, Total: Production by Month, State, and United States,  
1998 and Total 1997-98<sup>1</sup>**

State	1998						
	Jan	Feb	Mar	Apr	May	Jun	Jul
	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>
CA	474	484	700	642	648	778	806
FL	70	58	86	87	93	100	81
ID	33	24	37	40	51	37	50
IL	194	191	213	213	267	249	304
IN	142	172	193	192	213	202	236
KS							
MD <sup>2</sup>	93	113	147	135	189	126	174
MI	133	150	143	241	169	240	181
MO	77	64	81	75	84	98	104
NM	39	34	36	36	36	36	35
NY	166	166	235	261	265	348	275
NC	151	128	148	136	136	156	183
ND	3	11	5	5	2	15	5
OH	210	439	412	529	403	604	541
PA	190	112	221	161	174	232	206
TN	78	70	103	77	70	89	82
UT	56	82	115	127	133	147	156
WA	91	70	135	96	113	126	135
WI	45	50	68	57	75	100	52
Oth Sts <sup>3</sup>	1,470	1,637	1,900	1,981	2,167	2,362	2,444
US	3,715	4,055	4,978	5,091	5,288	6,045	6,050
N Atl	624	529	799	729	854	942	883
S Atl	455	439	575	561	593	597	605
E N Cen	724	1,002	1,029	1,232	1,127	1,395	1,314
W N Cen	664	747	834	965	1,018	1,143	1,165
S Cen	354	407	465	401	458	541	585
West	894	931	1,276	1,203	1,238	1,427	1,498

See footnotes at end of table.

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**Sherbet, Total: Production by Month, State, and United States,  
1998 and Total 1997-98<sup>1</sup> (continued)**

State	1998						1997
	Aug	Sep	Oct	Nov	Dec	Total	Total
	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>
CA	826	640	512	414	340	7,264	7,202
FL	67	62	69	57	67	897	1,537
ID	48	29	21	34	31	435	364
IL	253	253	214	210	247	2,808	1,605
IN	175	141	231	140	257	2,294	1,949
KS							238
MD <sup>2</sup>	161	118	135	66	81	1,538	1,632
MI	204	139	143	118	155	2,016	1,800
MO	106	96	97	71	54	1,007	
NM	35	35	35	35	35	427	355
NY	228	180	168	164	129	2,585	2,451
NC	153	108	123	108	162	1,692	1,854
ND	4	1	3	3	8	65	68
OH	466	369	362	354	486	5,175	4,209
PA	209	142	121	157	68	1,993	
TN	112	107	91	76	60	1,015	1,006
UT	115	117	91	61	65	1,265	1,096
WA	78	129	52	68	67	1,160	1,337
WI	67	57	53	62	42	728	712
Oth Sts <sup>3</sup>	2,225	1,715	1,415	1,257	1,428	22,001	23,662
US	5,532	4,438	3,936	3,455	3,782	56,365	53,077
N Atl	832	544	484	458	331	8,009	8,680
S Atl	533	403	427	330	433	5,951	6,854
E N Cen	1,165	959	1,003	884	1,187	13,021	10,275
W N Cen	1,077	931	673	698	816	10,731	9,313
S Cen	511	456	420	338	332	5,268	5,001
West	1,414	1,145	929	747	683	13,385	12,954

<sup>1</sup> Includes hard, soft-serve, and freezer-made milkshake.

<sup>2</sup> Includes District of Columbia.

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

**Sherbet, Hard: Production by Month, State, and United States,  
1998 and Total 1997-98**

State	1998						
	Jan	Feb	Mar	Apr	May	Jun	Jul
	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>
CA	460	469	679	623	629	755	782
FL	68	56	82	83	89	96	78
GA	44	63	63	77	81	63	57
ID	27	19	29	32	40	29	40
IL	149	147	158	159	202	186	226
IN	142	172	193	192	213	202	236
KS							
MD	93	113	147	135	189	126	174
MA	146	131	156	163	190	169	210
MI	118	133	128	214	149	211	159
NH	1	1	2			1	2
NM	15	14	14	14	14	14	14
NY	162	161	228	253	257	338	266
NC	129	110	126	115	115	130	154
ND	3	10	5	5	2	13	5
OH	210	270	247	324	252	368	322
PA	174	103	203	147	160	209	189
TN	65	59	87	60	57	73	61
TX	147	168	185	143	193	226	238
UT	55	80	112	124	130	143	152
WA	87	66	130	91	108	121	128
WI	45	50	68	57	75	100	52
Oth Sts <sup>1</sup>	1,125	1,259	1,477	1,574	1,687	1,893	1,921
US	3,465	3,654	4,519	4,585	4,832	5,466	5,466
N Atl	582	494	749	677	807	889	829
S Atl	416	413	543	530	559	560	565
E N Cen	664	772	794	946	891	1,067	995
W N Cen	642	720	798	931	980	1,095	1,117
S Cen	343	395	448	382	442	520	560
West	818	860	1,187	1,119	1,153	1,335	1,400

See footnotes at end of table.

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**Sherbet, Hard: Production by Month, State, and United States,  
1998 and Total 1997-98 (continued)**

State	1998						1997
	Aug	Sep	Oct	Nov	Dec	Total	Total
	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>
CA	801	621	496	402	330	7,047	6,391
FL	64	60	66	55	64	861	1,268
GA	79	52	34	39	47	699	789
ID	38	23	17	27	24	345	355
IL	188	192	162	159	188	2,116	1,433
IN	175	141	231	140	257	2,294	1,949
KS							238
MD	161	118	135	66	81	1,538	1,632
MA	177	91	83	76	83	1,675	1,987
MI	181	122	129	105	139	1,788	1,735
NH	2	1	1			11	
NM	14	14	14	14	14	169	226
NY	221	175	163	159	125	2,508	2,374
NC	132	91	105	93	140	1,440	1,647
ND	4	1	3	3	8	62	66
OH	286	218	219	214	304	3,234	4,209
PA	191	130	111	144	62	1,823	2,360
TN	95	89	72	64	51	833	790
TX	186	164	155	150	124	2,079	1,964
UT	112	114	89	60	64	1,235	888
WA	73	123	51	64	65	1,107	1,304
WI	67	57	53	62	42	728	710
Oth Sts <sup>1</sup>	1,770	1,416	1,158	1,006	1,156	17,442	15,912
US	5,017	4,013	3,547	3,102	3,368	51,034	50,227
N Atl	784	511	459	431	310	7,522	8,442
S Atl	504	381	405	312	407	5,595	6,329
E N Cen	897	730	794	680	930	10,160	10,036
W N Cen	1,031	895	636	672	785	10,302	9,209
S Cen	491	435	400	325	322	5,063	4,773
West	1,310	1,061	853	682	614	12,392	11,438

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

**Water and Juice Ices: Production by Month, State, and United States,  
1998 and Total 1997-98<sup>1</sup>**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>
CA	308	397	365	539	565	460	507	437
FL	50	50	53	53	54	47	50	49
GA								
IL	31	41	38	24	56	84	63	47
IN								
MA	2	10	3	3	10	4	5	2
MI	8	26	31	58	66	51	64	61
NM	3	3	3	3	3	4	3	3
NY	134	202	274	327	330	423	430	356
PA	375	437	488	615	519	450	620	431
TN	16	39	35	42	47	74	49	45
WA	79	112	182	211	208	261	229	258
Oth Sts <sup>2</sup>	4,075	4,206	5,148	5,065	6,767	7,018	6,714	5,526
US	5,081	5,523	6,620	6,940	8,625	8,876	8,734	7,215
N Atl	671	818	969	1,185	1,039	1,115	1,278	1,012
S Atl	974	1,053	1,212	1,476	1,801	1,777	1,742	1,498
E N Cen	533	652	900	802	911	1,043	865	709
W N Cen	1,504	1,256	1,539	792	2,164	2,227	2,259	1,717
S Cen	284	422	557	568	801	797	685	642
West	1,115	1,322	1,443	2,117	1,909	1,917	1,905	1,637
	1998					1997		
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>Number</i>	<i>1,000 Gal</i>	<i>Number</i>
CA	345	269	115	85	4,392	12	6,685	4,392
FL	51	50	46	50	603	15	607	603
GA							2,494	
IL	47	67	56	48	602	5	1,024	602
IN							2,467	
MA	1	1		1	42	3	66	42
MI	49	28	17	23	482	3	370	482
NM	3	3	3	3	37	1	26	37
NY	163	119	66	94	2,918	30	2,513	2,918
PA	169	224	203	176	4,707	11		4,707
TN	36	39	4	35	461	3	544	461
WA	197	117	29	29	1,912	3	2,198	1,912
Oth Sts <sup>2</sup>	3,846	3,738	2,824	2,299	57,226	79	51,881	56,998
US	4,907	4,655	3,363	2,843	73,382	165	70,875	73,154
N Atl	503	475	461	315	9,841	55	9,449	9,841
S Atl	1,231	1,166	1,247	1,132	16,309	28	16,020	16,081
E N Cen	534	365	411	414	8,139	23	7,649	8,139
W N Cen	1,127	1,225	709	490	17,009	7	15,455	17,009
S Cen	300	261	126	152	5,595	23	4,532	5,595
West	1,212	1,163	409	340	16,489	29	17,770	16,489

<sup>1</sup> Does not include counter-freezer production.

<sup>2</sup> States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

**Frozen Yogurt, Mix: Production by Month, State, and  
United States, 1998 and Total 1997-98**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	
	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	
CA	396	432	498	481	433	478	539	
ID								
NM								
NY	62	97	75	116	100	102	97	
NC	5	13	36	16	22	30	35	
PA	214	258	309	317	393	469	362	
TN	8	8	19	6	14	70	26	
Oth Sts <sup>1</sup>	3,111	3,321	4,290	4,162	3,888	4,053	4,299	
US	3,796	4,129	5,227	5,098	4,850	5,202	5,358	
N Atl	679	793	923	990	971	1,170	1,039	
S Atl	485	252	586	310	310	294	339	
E N Cen	575	677	864	821	827	893	816	
W N Cen	376	322	452	540	578	552	511	
S Cen	996	1,306	1,587	1,539	1,386	1,436	1,572	
West	685	779	815	898	778	857	1,081	
	1998							1997
	Aug	Sep	Oct	Nov	Dec	Total	Total	
	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	
CA	573	482	368	309	287	5,276	6,716	
ID							135	
NM							14	
NY	92	58	58	54	50	961		
NC	22	28	21	10	16	254	673	
PA	355	206	279	194	139	3,495		
TN	90	91	46	48	51	477		
Oth Sts <sup>1</sup>	3,668	4,604	3,521	3,074	3,100	45,091	50,795	
US	4,800	5,469	4,293	3,689	3,643	55,554	58,333	
N Atl	1,105	859	726	519	601	10,375	11,067	
S Atl	265	356	246	169	234	3,846	4,736	
E N Cen	735	838	815	858	957	9,676	9,843	
W N Cen	481	891	718	647	464	6,532	5,495	
S Cen	1,227	1,652	1,136	931	871	15,639	15,717	
West	987	873	652	565	516	9,486	11,475	

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



**Ice Cream Mix, Regular: Production by Month, State,  
and United States, 1998 and Total 1997-98**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>
AR	149	131	133	130	133	131	149	151
CA	3,560	4,142	5,256	5,257	5,131	5,829	5,547	5,688
FL	946	989	1,203	1,063	1,115	1,166	1,226	1,044
GA	305	391	337	322	335	463	263	337
IL	1,215	1,399	1,933	1,774	1,858	2,186	1,956	1,970
IN	2,075	2,680	3,091	2,974	2,685	2,508	2,854	2,389
KS								
ME	80	83	119	116	132	165	168	124
MD	683	802	919	984	970	1,089	993	835
MA	2,770	2,212	2,470	3,136	2,894	2,422	3,191	2,797
MI	815	900	1,013	1,131	1,172	1,428	1,350	1,249
MN	1,351	1,404	1,893	1,942	2,174	2,717	1,854	1,535
MO	583	568	720	718	671	825	765	706
NM	91	91	91	92	92	92	92	92
NY	1,295	1,447	1,685	2,072	2,079	2,565	2,429	1,804
NC	846	840	996	1,023	1,080	1,417	1,244	936
ND	30	49	37	39	45	70	55	51
OH	1,719	1,871	1,958	1,941	1,987	2,085	2,131	1,911
OR	441	466	517	476	505	526	561	540
PA	1,790	1,706	2,130	2,259	2,357	2,623	2,598	2,265
TN	695	658	880	669	856	1,020	989	853
TX	2,246	2,470	2,815	3,138	2,962	3,636	3,638	2,794
UT	461	452	513	507	800	916	487	549
VT								
WA	682	684	960	1,077	895	999	1,181	1,030
WI	469	468	561	653	583	644	655	594
Oth Sts <sup>1</sup>	8,968	10,331	11,024	12,009	12,002	12,547	13,276	11,238
US	34,265	37,234	43,254	45,502	45,513	50,069	49,652	43,482
N Atl	7,905	7,999	9,325	10,714	10,445	10,997	11,490	9,822
S Atl	4,013	4,179	4,689	5,005	4,813	5,341	5,209	4,486
E N Cen	6,293	7,318	8,556	8,473	8,285	8,851	8,946	8,113
W N Cen	4,490	5,476	5,944	6,210	6,759	7,732	7,242	5,796
S Cen	4,451	4,631	5,365	5,578	5,693	6,767	6,651	5,429
West	7,113	7,631	9,375	9,522	9,518	10,381	10,114	9,836

See footnotes at end of table.

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**Ice Cream Mix, Regular: Production by Month, State, and United States,  
1998 and Total 1997-98 (continued)**

State	1998						1997	
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>Number</i>	<i>1,000 Gal</i>	<i>Number</i>
AR	147	146	149	149	1,698	3	1,765	4
CA	5,497	3,983	3,607	3,322	56,819	30	57,514	31
FL	878	996	946	1,038	12,610	9	12,669	8
GA	326	175	236	242	3,732	4	5,049	4
IL	1,689	1,463	1,207	1,372	20,022	13	18,928	12
IN	2,592	2,155	2,189	2,451	30,643	10	29,281	10
KS							1,747	4
ME	69	47	47	56	1,206	4	938	3
MD	731	769	509	602	9,886	5		
MA	2,122	1,377	1,342	1,995	28,728	13	29,660	14
MI	1,080	766	614	643	12,161	19	13,757	21
MN	1,922	1,681	1,432	1,406	21,311	5	21,257	5
MO	617	938	479	404	7,994	7		
NM	92	92	92	92	1,101	1	2,543	1
NY	1,483	1,316	902	1,123	20,200	18	19,719	17
NC	826	871	598	745	11,422	11	12,105	11
ND	50	44	37	43	550	3	551	3
OH	1,733	1,566	1,230	1,336	21,468	20	20,986	20
OR	443	384	329	390	5,578	12	5,498	12
PA	1,955	1,986	1,441	1,321	24,431	30	25,549	32
TN	844	836	541	597	9,438	6	7,874	6
TX	2,773	2,605	2,216	2,103	33,396	18	30,771	17
UT	405	402	530	350	6,372	13	7,374	12
VT							7,406	4
WA	943	565	558	531	10,105	8	10,352	9
WI	522	528	391	408	6,476	13	6,266	12
Oth Sts <sup>1</sup>	10,605	10,637	7,386	7,203	127,226	81	124,171	88
US	40,344	36,328	29,008	29,922	484,573	356	473,730	360
N Atl	8,395	7,509	5,330	5,589	105,520	81	106,071	83
S Atl	3,650	4,072	3,065	3,291	51,813	37	51,488	35
E N Cen	7,616	6,478	5,631	6,210	90,770	75	89,218	75
W N Cen	6,260	6,049	4,512	5,059	71,529	30	65,897	31
S Cen	5,343	5,090	4,093	4,038	63,129	44	57,326	45
West	9,080	7,130	6,377	5,735	101,812	89	103,730	91

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

**Ice Cream Mix, Lowfat: Production by Month, State, and United States,  
1998 and Total 1997-98<sup>1</sup>**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>
AR	48	54	63	67	76	72	72	64
CA	1,122	1,294	1,587	1,705	1,709	2,264	2,161	2,226
FL	476	514	547	606	615	592	594	552
IL	1,013	1,089	1,344	1,449	1,650	1,823	1,808	1,539
IN	925	731	1,368	1,329	1,382	1,525	1,493	1,369
IA								
KS								
KY	141	151	223	276	342	365	359	307
MD	199	209	298	116	310	318	339	325
MA	135	59	287	263	277	180	301	230
MI	378	488	656	757	1,076	1,066	1,190	901
MT	31	42	63	69	93	91	123	86
NY	145	139	151	181	202	202	255	220
ND	25	32	51	65	72	73	91	60
OH	394	470	628	840	940	1,180	820	702
OK	49	44	63	50	50	54	65	55
OR	183	189	248	289	278	374	390	348
PA	376	476	641	761	698	830	876	798
TN	154	144	171	222	434	242	425	180
TX	1,546	1,549	1,842	2,301	2,424	2,385	2,444	2,303
UT	374	499	616	628	825	833	819	568
WA	240	274	347	327	349	421	444	412
WI	144	202	246	295	364	411	426	229
Oth Sts <sup>2</sup>	5,054	5,868	7,050	7,849	8,961	9,642	9,386	9,059
US	13,152	14,517	18,490	20,445	23,127	24,943	24,881	22,533
N Atl	1,798	2,111	2,856	2,942	3,301	3,429	3,515	3,690
S Atl	1,644	1,681	2,234	2,249	2,518	2,639	2,750	2,429
E N Cen	2,854	2,980	4,242	4,670	5,412	6,005	5,737	4,740
W N Cen	1,979	2,384	2,635	3,098	3,612	3,846	3,724	3,462
S Cen	2,438	2,485	3,002	3,716	4,158	4,077	4,269	3,766
West	2,439	2,876	3,521	3,770	4,126	4,947	4,886	4,446

See footnotes at end of table.

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**Ice Cream Mix, Lowfat: Production by Month, State, and United States,  
1998 and Total 1997-98<sup>1</sup> (continued)**

State	1998						1997	
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>Number</i>	<i>1,000 Gal</i>	<i>Number</i>
AR	58	58	44	45	721	4	744	4
CA	1,819	1,407	1,421	1,370	20,085	28	18,679	29
FL	501	574	491	563	6,625	10	6,037	10
IL	1,309	1,169	958	936	16,087	11	15,357	12
IN	1,321	1,140	1,038	1,197	14,818	10	13,437	10
IA							6,160	5
KS							1,756	4
KY	255	217	151	145	2,932	6	2,708	7
MD	318	253	195	195	3,075	5		
MA	162	65	34	95	2,088	7		
MI	729	545	424	519	8,729	15	8,040	15
MT	62	46	42	50	798	5	760	5
NY	194	182	163	182	2,216	10	2,282	10
ND	55	30	19	19	592	2	580	2
OH	478	211	162	173	6,998	15	6,644	17
OK	61	52	47	40	630	5	653	5
OR	251	215	169	162	3,096	11	3,243	11
PA	538	508	324	346	7,172	21	6,802	23
TN	185	171	113	145	2,586	7	2,446	7
TX	2,073	1,833	1,637	1,693	24,030	14	20,257	15
UT	434	405	293	352	6,646	9	6,732	9
WA	352	277	218	247	3,908	7	3,740	8
WI	182	126	77	221	2,923	7	3,160	7
Oth Sts <sup>2</sup>	8,147	6,774	5,976	5,871	89,637	100	84,054	102
US	19,484	16,258	13,996	14,566	226,392	309	214,271	317
N Atl	2,796	2,243	2,000	2,241	32,922	51	34,255	53
S Atl	2,241	2,041	1,638	1,806	25,870	39	24,929	39
E N Cen	4,019	3,191	2,659	3,046	49,555	58	46,638	61
W N Cen	3,388	2,649	2,436	2,162	35,375	28	32,929	27
S Cen	3,431	3,150	2,643	2,659	39,794	50	34,547	51
West	3,609	2,984	2,620	2,652	42,876	83	40,973	86

<sup>1</sup> Includes milkshake mix.

<sup>2</sup> States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

**Sherbet Mix: Production by Month, State,  
and United States, 1998 and Total 1997-98**

State	1998							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>
CA	306	319	458	425	428	510	538	543
FL	41	36	54	55	53	60	49	40
GA	26	37	36	45	45	35	31	49
ID								
IL	102	97	120	118	142	138	172	142
IN	95	104	120	125	138	111	132	97
KS								
MA	119	94	120	109	146	118	151	130
MI	67	75	66	121	91	125	100	104
MO	48	38	47	40	54	54	76	59
NM	26	22	23	23	23	23	23	23
NY	118	115	153	177	175	227	198	168
NC	89	72	91	86	86	102	115	85
ND	4	5	2	3	2	9	3	3
OH	127	171	167	205	152	238	220	180
PA	114	66	134	99	105	161	127	130
TN	49	42	61	64	49	59	80	63
TX	96	97	118	92	121	137	147	117
UT	35	51	72	77	92	97	97	71
WA	60	53	79	74	68	79	89	72
WI	29	30	39	34	45	63	38	38
Oth Sts <sup>1</sup>	950	1,050	1,184	1,340	1,400	1,545	1,649	1,403
US	2,501	2,574	3,144	3,312	3,415	3,891	4,035	3,517
N Atl	424	346	518	470	563	628	586	562
S Atl	268	259	354	348	360	368	371	321
E N Cen	420	477	512	603	568	675	662	561
W N Cen	582	649	666	802	814	964	1,031	829
S Cen	220	240	284	284	285	334	388	306
West	587	603	810	805	825	922	997	938

See footnotes at end of table.

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**Sherbet Mix: Production by Month, State, and United States,  
1998 and Total 1997-98 (continued)**

State	1998						1997	
	Sep	Oct	Nov	Dec	Total	Plants	Total	Plants
	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>Number</i>	<i>1,000 Gal</i>	<i>Number</i>
CA	426	345	265	220	4,783	21	4,627	19
FL	37	44	32	41	542	8	853	6
GA	32	20	24	30	410	4		
ID							278	4
IL	133	113	110	129	1,516	7	977	7
IN	84	138	82	158	1,384	9	1,209	9
KS							169	2
MA	74	63	60	84	1,268	11	1,467	11
MI	76	62	60	72	1,019	10	1,025	11
MO	55	109	41	30	651	6		
NM	23	23	23	23	278	1		
NY	125	116	118	90	1,780	10	1,669	10
NC	70	71	61	90	1,018	11	1,154	10
ND	1	2	2	5	41	2	43	2
OH	152	143	142	183	2,080	15	3,179	15
PA	86	74	94	41	1,231	19	1,498	17
TN	68	72	47	34	688	5	705	5
TX	103	98	95	78	1,299	7	1,251	8
UT	74	56	39	39	800	8	641	9
WA	84	19	55	35	767	5	875	4
WI	36	36	36	25	449	5	443	6
Oth Sts <sup>1</sup>	1,123	928	822	931	14,325	70	13,475	73
US	2,862	2,532	2,208	2,338	36,329	234	35,538	228
N Atl	363	327	308	243	5,338	49	5,832	48
S Atl	254	264	197	260	3,624	32	3,643	28
E N Cen	481	492	430	567	6,448	46	6,833	48
W N Cen	730	596	581	643	8,887	19	7,725	17
S Cen	284	278	209	199	3,311	26	3,163	27
West	750	575	483	426	8,721	62	8,342	60

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

**Dairy Plants: Number Manufacturing One or More Dairy Products  
by State and United States, 1994-98**

State	1994	1995	1996	1997	1998
	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
AL	10	13	11	10	10
AK	4	4	4	4	4
AZ	7	7	7	5	5
AR	7	7	7	5	5
CA	225	205	175	170	147
CO	12	12	12	12	12
CT	15	15	15	17	17
DE	2	2	2	2	2
FL	33	35	34	32	31
GA	9	8	11	11	11
HI	3	3	3	3	3
ID	18	17	19	19	19
IL	71	72	68	63	62
IN	30	30	27	26	26
IA	39	40	39	37	37
KS	7	7	7	6	6
KY	21	21	20	20	20
LA	9	9	9	8	8
ME	9	9	8	10	10
MD <sup>1</sup>	17	17	14	14	14
MA	23	23	23	24	24
MI	43	47	46	45	42
MN	49	49	48	46	45
MS	10	10	10	10	10
MO	23	23	23	21	21
MT	16	12	12	10	8
NE	12	10	11	10	10
NV	3	4	4	4	4
NH	6	5	5	5	5
NJ	14	14	14	15	15
NM	5	6	6	7	7
NY	136	138	134	134	141
NC	17	17	17	14	14
ND	24	21	22	21	19

See footnotes at end of table.

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**Dairy Plants: Number Manufacturing One or More Dairy Products  
by State and United States, 1994-98 (continued)**

State	1994	1995	1996	1997	1998
	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
OH	75	74	67	64	64
OK	10	11	8	8	8
OR	20	20	20	20	20
PA	84	81	76	75	72
RI	5	5	5	5	4
SC	5	5	5	5	5
SD	19	20	19	18	14
TN	21	19	18	16	15
TX	39	35	30	30	30
UT	21	22	23	21	21
VT	18	18	20	19	19
VA	12	12	12	12	12
WA	25	25	24	24	20
WV	6	4	4	3	3
WI	241	230	222	222	217
WY	2	2	2	2	2
US	1,532	1,495	1,422	1,384	1,340
N Atl	310	308	300	304	307
S Atl	101	100	99	93	92
E N Cen	460	453	430	420	411
W N Cen	173	170	169	159	152
S Cen	361	125	113	107	106
West	127	339	311	301	272

<sup>1</sup> Includes District of Columbia.



**Net Whole Milk Equivalents Used in Manufactured Dairy Products:  
Total and Percentage by Major Products, United States, 1987-98**

Year	Total	Percentage Distribution					Total
		Butter	All Whole Milk and Part Skim Cheese	Evaporated Dry and Condensed Milk	Ice Cream and Other Frozen Products	Other Milk Products	
	<i>Mil Lbs</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
1987	81,945	30.5	47.6	3.9	16.4	1.6	100.0
1988	84,775	32.0	47.3	3.9	15.3	1.5	100.0
1989	84,380	31.5	48.2	3.4	16.1	0.8	100.0
1990	88,608	30.9	49.9	3.4	15.1	0.7	100.0
1991	88,460	31.5	49.1	2.7	15.6	1.1	100.0
1992	92,208	30.9	50.0	3.9	14.4	0.8	100.0
1993	90,691	30.3	51.3	3.1	14.5	0.8	100.0
1994	92,491	29.4	51.6	2.9	15.4	0.7	100.0
1995	92,795	28.5	52.8	2.8	15.2	0.7	100.0
1996	91,584	26.6	54.7	2.5	15.5	0.7	100.0
1997	93,657	25.5	55.3	2.6	15.9	0.7	100.0
1998	93,436	24.1	56.4	2.5	16.4	0.6	100.0

**Skim Milk Equivalents: Selected Skim-Milk and Buttermilk Products,  
United States, 1987-98**

Year	Cottage Cheese Curd	Condensed and Evaporated Skim Milk	Non-fat Dry Milk	Condensed and Dried Buttermilk <sup>1</sup>	Total <sup>2</sup>
	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Million Pounds</i>
1987	3,587	3,088	11,872	767	19,314
1988	3,479	3,126	10,970	885	18,460
1989	3,284	3,239	9,827	787	17,137
1990	3,084	3,539	9,898	764	17,285
1991	3,067	3,543	9,783	778	17,171
1992	3,140	3,967	9,703	859	17,669
1993	2,958	3,949	10,537	767	18,211
1994	2,896	4,170	13,662	758	21,486
1995	2,868	3,509	13,668	792	20,837
1996	2,802	3,163	11,749	719	18,433
1997	2,865	3,140	13,451	724	20,180
1998	2,906	3,275	12,466	728	19,375

<sup>1</sup> Includes other skim milk minor products.

<sup>2</sup> May not add due to rounding.

**Whole Milk Equivalent: Calculated Quantities in Specified Products,  
Whole Milk Basis by State and United States, 1998 <sup>1</sup>**

State	Butter	Cheese		Evaporated & Condensed Whole Milk Case	Condensed Whole Milk, Bulk	
		American	Other Than American		Unsweetened	Sweetened
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
CA	5,101,063	5,061,163	3,607,629			
ID		4,812,837				
IA		1,064,972				
MN	1,472,676	5,549,602	369,351			
NY	478,989		3,128,852			
ND	99,755	191,534				
OH		344,367				
OR	513,863	543,752				
PA	1,978,676		2,006,757			
SD		554,806	442,737			
TN		24,559				
UT		303,556				
WA	1,623,306	1,168,114				
WI	6,709,866	9,192,736	6,699,598			131,609
US <sup>3</sup>	24,248,490	33,145,904	23,610,053	1,030,326	220,235	185,780
N Atl	3,289,171	1,482,554	5,668,348	327,085	111,906	973
S Atl	708,044	33,644	158,021			
E N Cen	8,290,982	9,704,535	8,840,389	134,499	33,995	131,609
W N Cen	2,938,398	7,962,484	3,162,911	128,874		
S Cen	1,565,522	516,206	27,494	37,797	192	53,198
West	7,456,373	13,446,481	5,752,890	402,071	74,142	

See footnotes at end of table.

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**Whole Milk Equivalent: Calculated Quantities in Specified Products,  
Whole Milk Basis by State and United States, 1998 <sup>1</sup> (continued)**

State	Dry Whole Milk	Ice Cream and Other Frozen Products <sup>4</sup>	Other Milk Products <sup>5</sup>	Total <sup>6</sup>	Duplications	Net Total <sup>7</sup>
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
AL		192,814	874	203,198	49,295	153,903
AK		5,298	714	6,012	342	5,670
AZ		142,857	9,664	1,455,230	90,774	1,364,456
AR		67,778		478,225	32,870	445,355
CA	427,411	2,005,477	78,120	16,757,076	1,090,128	15,666,948
CO		247,624	16,492	644,365	73,171	571,194
CT		348,287		385,552	15,797	369,755
DE		4,336		9,024	2,222	6,802
FL		508,547	3,128	511,675	144,268	367,407
GA		178,670		208,531	21,315	187,216
HI		19,504	1,108	20,612	8,484	12,128
ID		140,532	4,846	5,334,769	415,794	4,918,975
IL		671,274	58,490	1,642,432	197,893	1,444,539
IN		1,029,537	28,747	1,817,731	136,143	1,681,588
IA		1,059,303	18,070	3,105,134	197,754	2,907,380
KS		73,654	16,593	280,698	17,330	263,368
KY		125,470	27,696	281,055	4,533	276,522
LA		62,601		83,523	1,838	81,685
ME		37,320	773	40,639	11,580	29,059
MD <sup>2</sup>		308,862	4,607	871,708	120,504	751,204
MA		888,591	759	1,655,556	248,520	1,407,036
MI		481,157	22,562	1,358,112	112,435	1,245,677
MN		612,676	33,434	8,045,874	489,612	7,556,262
MS		18,611		56,465	719	55,746
MO		402,418	11,456	2,054,890	44,789	2,010,101
MT		32,325	2,465	41,149	3,097	38,052
NE		129,675	2,168	1,784,794	95,716	1,689,078
NV		288,607	1,476	290,083	13,602	276,481
NH		23,646		23,646	5,940	17,706
NJ		441,020		672,210	45,977	626,233
NM		69,658	12,707	1,299,686	161,694	1,137,992
NY		572,732	117,623	5,492,755	522,153	4,970,602
NC		415,068	13,379	464,216	158,311	305,905
ND		25,299	1,196	317,784	20,630	297,154

See footnotes at end of table.

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**Whole Milk Equivalent: Calculated Quantities in Specified Products,  
Whole Milk Basis by State and United States, 1998 <sup>1</sup> (continued)**

State	Dry Whole Milk	Ice Cream and Other Frozen Products <sup>4</sup>	Other Milk Products <sup>5</sup>	Total <sup>6</sup>	Duplications	Net Total <sup>7</sup>
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
OH		769,648	38,266	2,793,690	234,829	2,558,861
OK		271,380	5,915	278,561	47,302	231,259
OR		198,082	11,726	1,267,998	56,964	1,211,034
PA		788,027	21,351	5,433,905	230,656	5,203,249
RI		13,135		13,135	3,389	9,746
SC		195,000		195,328	81,749	113,579
SD		6,504	1,924	1,005,998	98,320	907,678
TN		288,297	13,681	930,081	36,412	893,669
TX		1,028,908	12,213	2,009,029	87,036	1,921,993
UT		236,446	1,433	844,851	134,832	710,019
VT		216,865	5,243	1,103,688	76,156	1,027,532
VA		263,077	11,621	545,522	59,777	485,745
WA		347,814	28,934	3,443,933	137,559	3,306,374
WV		14,770		14,770	263	14,507
WI		225,442	55,445	23,045,125	1,393,845	21,651,280
WY		1,381	193	59,087	8,398	50,689
US <sup>3</sup>	1,045,226	16,496,004	697,092	100,679,110	7,242,717	93,436,393
N Atl	465,677	3,329,623	145,749	14,821,086	1,160,168	13,660,918
S Atl		1,888,330	32,735	2,820,774	588,409	2,232,365
E N Cen	140,513	3,177,058	203,510	30,657,090	2,075,145	28,581,945
W N Cen	8,135	2,309,529	84,841	16,595,172	964,151	15,631,021
S Cen	3,490	2,055,859	60,379	4,320,137	260,005	4,060,132
West	427,411	3,735,605	169,878	31,464,851	2,194,839	29,270,012

<sup>1</sup> Products manufactured in each State do not necessarily show utilization of milk produced in the State because of interstate shipments of milk. No adjustment has been made for shipments of milk and cream between States differing in the test of milk produced.

<sup>2</sup> Includes District of Columbia.

<sup>3</sup> States do not add to U.S. total; includes milk equivalent for States not shown separately.

<sup>4</sup> Excludes frozen yogurt.

<sup>5</sup> Includes cottage cheese, anhydrous milkfat, butter oil and butterine..

<sup>6</sup> Milk equivalent of other dairy products, including items produced by fewer than 3 plants.

<sup>7</sup> Net total accounts for fat recovered from whey cream and used for making butter and the amount of fat from butter and condensed milk used in making ice cream.

**Skim Milk Equivalent: Calculated Quantities in Specified Products,  
Whole Milk Basis by State and United States, 1998 <sup>1</sup>**

State	Cottage Cheese Curd	Condensed Skim Milk, Bulk		Dry		Other Products <sup>5</sup>	Total <sup>6</sup>
		Sweetened	Un- sweetened	Butter- Milk	Nonfat Milk <sup>4</sup>		
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
AL							3,806
AK							1,938
AZ							519,985
CA	338,788		1,643,145	293,007	5,598,857		7,931,256
CO							48,056
FL							36,494
HI							1,925
ID							33,281
IL	194,144						196,014
IN	99,894						385,186
IA	76,894						712,012
KS							60,969
KY	120,800						157,980
LA							93,896
ME							2,819
MD <sup>2</sup>							665,295
MA							699,894
MI	140,413			31,834			691,155
MN				58,839	136,334		317,441
MO	48,756		68,667				117,423
MT							1,938
NE							7,106
NV							4,694
NM			5,280			430,485	468,840
NY	611,031						943,363
NC							41,219
ND	6,669				3,212		9,881

See footnotes at end of table.

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**Skim Milk Equivalent: Calculated Quantities in Specified Products,  
Whole Milk Basis by State and United States, 1998 <sup>1</sup> (continued)**

State	Cottage Cheese Curd	Condensed Skim Milk, Bulk		Dry		Other Products <sup>5</sup>	Total <sup>6</sup>
		Sweetened	Un- sweetened	Butter- Milk	Nonfat Milk <sup>4</sup>		
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
OH	136,125						141,522
OK	18,763						47,266
OR	61,225						224,917
PA	111,050				831,886		1,032,467
SD							198,006
TN	49,131						198,554
TX	62,038						676,579
UT							59,596
VT							292,366
VA							181,489
WA					1,549,548		1,675,836
WI	146,513	59,979			99,891		491,402
WY							888
US <sup>3</sup>	2,905,561	113,430	3,161,286	552,904	12,466,157	175,416	19,374,754
N Atl	758,806	2,577	449,736	65,802	1,665,521	28,467	2,970,909
S Atl	159,707		311,007	66	453,717		924,497
E N Cen	717,089	59,979	357,702	53,130	631,114	86,265	1,905,279
W N Cen	279,525		122,007	58,839	962,467		1,422,838
S Cen	254,538	50,874	212,700	74,327	582,417	3,225	1,178,081
West	735,896		1,708,134	300,740	8,170,921	57,459	10,973,150

<sup>1</sup> Products manufactured in each State do not necessarily show utilization of milk produced in the State because of interstate shipments of milk. No adjustment has been made for shipments of milk and cream between States differing in the test of milk produced.

<sup>2</sup> Includes District of Columbia.

<sup>3</sup> States do not add to U.S. total; includes milk equivalent for States shown separately.

<sup>4</sup> Includes dry skim milk for animal feed.

<sup>5</sup> Includes evaporated skim milk, case and condensed and evaporated buttermilk..

<sup>6</sup> Milk equivalent of other dairy products, including items produced by fewer than 3 plants.

**Procedures and Reliability:** Estimates included in this report are based on data provided each month by manufacturers of these products. In 32 States, the State Departments of Agriculture assist in collection of data, which eliminates duplicate reporting and reduces respondent burden. Data are collected by mail, personal and telephone interviews following the close of each month. There were 1,340 manufacturers that made one or more products in 1998. Each month, reports are generally received from all dairy plants in States with small numbers of plants. 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. Monthly estimates are based upon returns from about 70 percent of the plants which account for 70 to 90 percent of the total production of major dairy products.

**Revision Policy:** Monthly production estimates are subject to revision the month following the preliminary estimates. Annual revisions are also published in the "**Dairy Products**" report published each April. An attempt is made to get information from all plants for preparing these estimates. Stocks data are subject to revision the month following the preliminary estimate.