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PRODUCTION OF MANUFACTURED DAIRY PRODUCTS 1970

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PRODUCTION OF MANUFACTURED DAIRY PRODUCTS, 1970

WHOLE MILK PRODUCTS

Manufactured dairy products utilized 50 percent of the 1970 U. S. milk production. Net manufacturing use, in whole milk equivalent based on milkfat content, was 59.1 billion pounds, up 2 percent from 1969, according to the Crop Reporting Board. The 1970 data in this publication are preliminary and the 1969 data have been revised where necessary.

Production was record high in 1970 for the following products: total cheese (excluding full-skim American and cottage), American whole milk cheese, total Italian cheese, Swiss cheese, Cream cheese, Munster cheese, Blue Mold cheese, ice milk, cottage cheese, dry whey, and crude milk sugar.

Butter production used 4 percent less milk than a year ago. A total of 22.9 billion pounds net whole milk equivalent was used, excluding butter made from whey cream. Gross milk equivalent of butter (including milkfat recovered from whey) was 24.5 billion pounds. Butter accounted for 39 percent of total net whole milk equivalent for manufactured dairy products, compared with 41 percent in 1969.

Milk used for cheese production, excluding creamed cottage cheese, set a new record high for the seventh consecutive year. A total of 19.6 billion pounds of whole milk went into U. S. cheese production, up 11 percent from 1969. Cheese accounted for 33 percent of all milk used in manufactured dairy products. American cheese used 14.3 billion pounds of whole milk, an increase of 13 percent over 1969, and a record high. "Other than American" cheese used 5.3 billion pounds, also a new high. Evaporated whole milk required 2.6 billion pounds, 12 percent below 1969. Condensed milk products accounted for 0.6 billion pounds, 27 percent below 1969. Dry whole milk used 0.4 billion pounds, down 18 percent from 1969. Creamed cottage cheese, anhydrous milkfat, and other miscellaneous milk products used 1.9 billion pounds compared with 1.6 billion in 1969, an increase of 23 percent.

Frozen dairy products used 13.1 billion pounds of gross whole milk equivalent in 1970, slightly above the previous record high in 1969. Excluding milk equivalent of milkfat in butter and condensed milk used in frozen products, the net whole milk equivalent was 11.1 billion pounds. Ice cream used a gross 10.7 billion pounds, 1 percent below 1969. Net usage was 8.7 billion pounds, also 1 percent below the previous year. Whole milk used for ice milk and milk sherbet, at 2.3 billion pounds, was 5 percent above 1969 and a record high.

Wisconsin again led all States in the use of milk for manufactured dairy products with 12.9 billion pounds or 22 percent of the total. Other rank States were Minnesota, California, Iowa, and New York. These five States accounted for 53 percent of the U. S. total net milk equivalent.

Creamery Butter

U. S. creamery butter production in 1970 was 1,137 million pounds, nearly 2 percent above the previous year, but except for 1966 and 1969 was the lowest since 1920. Minnesota was again the leading butter producer, as it has been for nearly a quarter-century. Wisconsin ranked second, followed by Iowa, California and New York. These five States accounted for 64 percent of U. S. butter production.

Total Cheese

Total cheese production, excluding full-skim American and cottage cheese, was 2,204 million pounds in 1970, 11 percent above the record high set in 1969. Wisconsin produced 43 percent of the national total, and with Minnesota, New York, Iowa, and Missouri, accounted for 67 percent of the Nation's output.

American Cheese

Production of American cheese in 1970, at 1,426 million pounds, was 13 percent above 1969 and 12 percent above the previous record high in 1967. American cheese (Cheddar, Colby, Monterey, Washed-curd, Jack and Granular) made up 65 percent of the Nation's cheese output. Cheddar, at 1,191 million pounds, was up 13 percent from 1969 and accounted for 84 percent of total American cheese. All other types of American cheese totaled 235 million pounds, an increase of 13 percent from 1969 and 5 percent above the previous record high in 1968. Wisconsin produced 46 percent of the total American cheese and with Minnesota, Missouri, Iowa, and Kentucky, accounted for 70 percent of U. S. production for 1970.

Cheese Other Than American

For the 13th consecutive year, whole milk cheese other than American set a new production high. The 778 million pounds produced was 8 percent above 1969. Italian cheese production, at 394 million pounds, was a new high. Swiss cheese production, at 144 million pounds, was 9 percent above 1969 and the largest of record with an increase of 5 percent over 1966. Illinois continued to lead in production of Swiss cheese, with 31 percent of the U. S. total. Cream cheese production, at 121 million pounds, was 2 percent above 1969 and a new record high. New York and Wisconsin were the top cream cheese producers and accounted for 61 percent of the Nation's total. Munster cheese, at 35.1 million pounds was a record high, while

Brick cheese, with 20.8 million pounds, was virtually the same as in 1969 and the lowest since 1950. Brick and Munster cheese combined, at 55.9 million pounds, was record high. Blue Mold cheese, at 23.3 million pounds, was the highest of record. Part-skim American cheese totaled 5.1 million pounds, lowest since 1957. Neufchatel cheese production, at 4.8 million pounds, was the third lowest of the past decade. Limburger cheese totaled 2.8 million pounds - third lowest of record. Production of unclassified varieties amounted to 27.1 million pounds, 12 percent above 1969.

Italian Cheese Production By Types

For the 16th consecutive year, Italian cheese production was record high; the 394 million pounds produced in 1970 was 9 percent above 1969. Soft Italian cheese accounted for 75 percent of the total in 1970, the same as in 1969. All soft types showed increases over the previous year including Mozzarella and similars with an increase of 8 percent. Hard types also increased in 1970 except for some of the miscellaneous types. Provolone and similar types were up 13 percent over 1969.

Processed Cheese

Production of processed cheese and processed cheese foods, spreads, and cold pack was 1,138 million pounds in 1970, 12 percent above 1969 and a record high. Processed cheese totaled 686 million pounds, 6 percent above 1969. Processed cheese foods, spreads, and cold pack totaled 452 million pounds, 23 percent above 1969, the previous high.

All Frozen Desserts

Frozen desserts (ice cream, ice milk, milk sherbet, mellorine and other frozen dairy products) totaled a record 1,162 million gallons in 1970, 8 million gallons or nearly 1 percent above 1969. Increases in ice milk and other frozen dairy products more than offset declines in production of ice cream, milk sherbet, and mellorine.

Ice Cream

Ice cream production (including frozen custard) was 763 million gallons in 1970, less than 1 percent below 1969 and 1 percent below the record high of 1968. Ice cream was 66 percent of all frozen desserts (excluding water ices), down slightly from 1969.

Pennsylvania led in production of ice cream for the second year, followed by California, New York, Ohio, and Massachusetts. These five States accounted for 40 percent of total U. S. ice cream.

Ice Milk

Record high ice milk production in 1970, at 292 million gallons, was 6 percent above 1969. California led in ice milk production for the 31st consecutive year (since records began) followed by Ohio, Pennsylvania, Florida, and Illinois. These States accounted for 31 percent of the U. S. total.

Milk Sherbet

Production of milk sherbet in 1970 was 49 million gallons, down 5 percent from 1969. The leading production State was California. Other leading States were Pennsylvania, Ohio, Illinois, and Texas.

Mellorine-Type Frozen Desserts

Mellorine in 1970 totaled 52 million gallons, a decrease of 7 percent from 1969. This product includes all frozen desserts made with fats and oils other than milkfat. For the 19th consecutive year--since records began--Texas led in mellorine production with 44 percent of the total. California produced 25 percent.

Soft-Frozen Dairy Products

Soft-frozen dairy products are defined as those sold directly from a freezer or kept in a hardening cabinet for less than 12 hours. Most soft-frozen dairy products are sold from direct serve, soft freezer, or from shake machines, permitting products to be drawn into cups or cones, and sold directly to the consumer.

The output of ice cream, ice milk, milk sherbet, and mellorine sold as soft product totaled 194 million gallons in 1970. Ice milk made up the major share, 81 percent; ice cream, 13 percent; mellorine, 5 percent; and sherbet, 1 percent. Soft ice milk accounted for 54 percent of total ice milk production. California and Ohio led in output of soft ice milk.

Dry Whole Milk

Dry whole milk production was 69 million pounds, down 2 percent from 1969 and the lowest production since 1942. Minnesota led all States with one-fifth of the Nation's production.

Evaporated and Condensed Milk

Production of canned evaporated whole milk and canned sweetened condensed whole milk combined amounted to 1,268 million pounds in 1970. This was a decrease of 15 percent from 1969. Ohio led in production for the 9th consecutive year. Bulk production of sweetened condensed whole milk totaled 44 million pounds, 29 percent below 1969. Wisconsin was tops in production with over one-half the Nation's output. Bulk production of unsweetened condensed whole milk, at 204 million pounds, was 11 percent below 1969 and the lowest since 1949. New York led in output with nearly one-fourth of the U. S. total.

SKIM MILK PRODUCTS

Skim milk used for manufacturing skim milk products in 1970 totaled 24.3 billion pounds, 1 percent above 1969.

Nonfat dry milk used 16.0 billion pounds of skim milk, 66 percent of the total. Cottage cheese curd used 4.5 billion pounds, 19 percent of the total. Condensed and evaporated skim milk used 3.0 billion pounds or 13 percent of total skim.

Nonfat Dry Milk

Output of nonfat dry milk for human food (spray and roller process combined) was 1,443 million pounds in 1970, down 1 percent from 1969 and lowest since 1955. Spray process accounted for 1,428 million pounds, 99 percent of the total. Roller process production was a record low, decreasing 32 percent from 1969. Minnesota, Wisconsin, Iowa, California, and New York accounted for 71 percent of total U. S. production of nonfat dry milk.

U.S.D.A. price support purchases removed from the market a total of 452 million pounds of nonfat dry milk during calendar year 1970, 31 percent of total production. In 1969, 407 million pounds were removed from the market.

Dry skim milk for animal feed at 12 million pounds showed a decline of 17 percent from 1969. Minnesota led with about one-fourth of the Nation's total.

(Continued on page 61)

Table 1. Manufactured dairy products: Production of specified products,
United States, by months, 1969, revised

Product	Plants	January	February	March	April	May	June
	Number	1,000 pounds					
Butter, creamery	727	106,790	96,309	103,727	108,967	116,634	110,793
Cheese:							
American:							
Cheddar	616	74,331	70,910	82,532	94,238	113,963	118,874
Other types, whole milk 1/	211	14,917	14,185	17,089	17,208	20,530	20,820
Part skim	8	425	392	422	431	520	500
Swiss, including block	99	9,537	8,672	11,145	11,592	12,753	12,949
Munster	71	2,826	2,521	2,712	2,694	2,662	2,651
Brick	67	1,830	1,519	1,897	1,746	1,753	1,661
Limburger	8	308	211	236	222	234	246
All Italian types	188	27,558	26,511	31,602	31,876	31,930	31,330
Cream	28	8,452	7,657	11,436	8,460	8,374	9,257
Neufchatel	8	426	296	450	427	471	385
Blue mold 2/	12	1,718	1,594	1,775	1,755	2,035	1,947
All other types	57	1,955	1,888	2,214	2,007	2,159	1,933
Total 3/	995	144,283	136,356	163,510	172,656	197,384	202,553
Full-skim American-type cheese	6	308	253	359	232	282	241
Cottage cheese:							
Curd 4/	632	53,724	54,847	61,377	59,240	62,555	57,021
Creamed 5/	621	71,408	73,545	81,469	79,124	83,672	76,723
Partially creamed 6/	83	3,215	3,264	3,699	3,938	4,271	3,643
Condensed milk:							
Sweetened:							
Case goods: Whole	4	5,182	4,314	6,841	9,092	9,299	7,626
Bulk goods:							
Whole	20	4,855	4,706	5,570	5,186	5,622	5,580
Skimmed	24	6,058	5,644	6,772	6,658	7,081	6,896
Unsweetened: Bulk goods:							
Whole	77	17,617	16,070	18,310	19,901	21,984	25,025
Skimmed	186	62,473	60,957	69,919	76,911	84,595	86,532
Evaporated milk, unsweetened:							
Case goods: Whole	44	95,231	96,975	106,278	135,609	156,662	146,778
Skimmed	10	2,463	2,203	2,455	2,094	1,934	1,361
Condensed or evaporated buttermilk	3	12	20	30	38	37	64
Condensed whey	33	10,967	10,774	12,875	13,673	15,502	13,537
Dry milk:							
Whole milk	35	5,609	4,721	6,693	5,752	7,532	7,757
Nonfat dry milk for human food:							
Spray process	213	116,062	112,699	127,589	145,335	173,336	173,654
Roller process	20	1,542	1,508	1,671	1,881	2,381	2,841
Total	245	117,604	114,207	129,260	147,216	175,717	176,495
Skim milk for animal feed	153	1,238	1,235	1,099	1,371	1,296	1,319
Whey: For human food	42	16,997	16,532	19,481	20,948	22,461	22,319
For animal feed	81	23,397	21,505	26,452	25,264	25,778	25,713
Total	107	40,394	38,037	45,933	46,212	48,239	48,032
Buttermilk	141	6,392	5,867	6,256	6,731	6,789	6,472
Malted milk powder	3	1,637	1,831	1,939	2,003	1,893	1,785
Milk sugar, crude	11	7,323	7,975	8,418	8,336	8,165	7,769
Dry ice cream mix 7/	4	9	29	20	58	14	
Frozen products and mix:							
Ice cream	8/1,739	53,694	53,701	60,812	63,622	68,298	74,890
Ice milk 9/	8/1,160	14,590	15,331	19,677	24,179	28,990	31,066
Milk sherbet	8/1,176	3,135	3,089	3,806	4,505	5,119	5,829
Other frozen dairy products	95	246	304	390	512	716	860
"Mellorine-type" frozen desserts	8/199	3,829	3,683	4,303	4,947	5,256	5,575
Ice cream mix	1,364	27,891	27,143	31,211	32,735	35,494	38,707
Ice milk mix 10/	1,249	8,846	9,125	12,200	15,056	18,106	19,128
Milk sherbet mix	873	1,996	1,968	2,421	2,902	3,261	3,710
"Mellorine-type" mix	223	2,044	1,977	2,357	2,584	2,799	2,996

1/ Includes Colby, washed or stirred curd, high and low moisture jack, Monterey, and granular.

2/ Includes Gorgonzola. 3/ Excluding full-skim American and cottage cheese. 4/ Used for processing

into full or partially creamed cottage cheese or for sale to consumers in dry form. See footnote 1,
page 24.

Table 1. Manufactured dairy products: Production of specified products, United States, by months, 1969, revised Continued

Product	July	August	September	October	November	December	Total
1,000 pounds							
Butter, creamery	92,621	76,847	67,732	76,657	71,164	89,987	1,118,228
Cheese:							
American:							
Cheddar	103,664	91,708	79,532	75,837	69,611	82,899	1,058,099
Other types, whole milk 1/	18,514	17,894	16,672	16,662	15,788	18,050	208,329
Part skim	497	497	499	468	438	423	5,512
Swiss, including block	11,670	11,656	10,461	10,401	9,987	10,789	131,612
Munster	2,826	2,922	2,862	2,504	2,439	2,862	32,481
Brick	1,818	1,790	1,608	1,615	1,629	1,983	20,849
Limburger	240	222	260	290	245	221	2,935
All Italian types	29,583	28,555	29,183	30,809	28,762	33,555	361,254
Cream	8,583	8,041	10,119	11,412	13,390	13,150	118,331
Neufchatel	468	339	413	434	409	463	4,981
Blue mold 2/	1,771	1,710	1,599	1,777	1,640	1,711	21,032
All other types	1,798	1,854	2,039	2,107	2,014	2,206	24,174
Total 3/	181,432	167,188	155,247	154,316	146,352	168,312	1,989,589
Full-skim American-type cheese	217	226	307	395	327	379	3,526
Cottage cheese:							
Curd 4/	59,361	56,018	55,833	56,884	51,448	51,033	679,341
Creamed 5/	80,356	75,400	74,575	76,332	68,611	68,756	909,971
Partially creamed 6/	4,158	3,851	3,884	4,001	3,469	3,317	44,710
Condensed milk:							
Sweetened:							
Case goods: Whole	8,135	7,266	8,488	8,881	5,860	3,918	84,902
Bulk goods:							
Whole	4,679	6,061	6,033	6,038	4,345	3,744	62,419
Skimmed	5,706	7,249	6,600	6,005	5,271	4,589	74,529
Unsweetened: Bulk goods:							
Whole	24,576	23,344	18,476	16,154	13,309	14,996	229,762
Skimmed	89,036	88,778	77,561	68,437	62,383	62,349	889,931
Evaporated milk, unsweetened:							
Case goods: Whole	139,053	135,426	101,266	93,465	83,625	108,484	1,398,852
Skimmed	1,687	1,827	1,628	2,503	2,239	2,239	24,633
Condensed or evaporated buttermilk	31	37	52	7	25	39	392
Condensed whey	14,042	13,742	13,698	12,980	12,837	15,105	159,732
Dry milk:							
Whole milk	6,042	5,315	4,873	5,021	5,408	5,516	70,239
Nonfat dry milk for human food:							
Spray process	138,022	111,124	82,241	78,220	71,198	101,539	1,431,019
Roller process	2,345	1,876	1,388	1,372	1,246	1,208	21,259
Total	140,367	113,000	83,629	79,592	72,444	102,747	1,452,278
Skim milk for animal feed	1,590	1,297	1,125	1,048	790	1,000	14,408
Whey: For human food	20,092	19,404	17,872	17,227	17,795	20,118	231,246
For animal feed	22,545	23,330	22,366	22,709	22,716	23,453	285,228
Total	42,637	42,734	40,238	39,936	40,511	43,571	516,474
Buttermilk	5,685	4,609	3,980	4,801	3,922	5,007	66,511
Malted milk powder	555	1,444	1,350	1,430	1,259	1,510	18,636
Milk sugar, crude	7,198	7,202	6,623	7,771	7,890	8,271	92,941
Dry ice cream mix 7/	13	19		7	4	15	188
Frozen products and mix:							
Ice cream	82,348	76,024	68,466	61,315	49,496	52,835	765,501
Ice milk 9/	34,730	31,638	24,970	20,989	14,855	14,480	275,495
Milk sherbet	6,462	5,581	4,478	3,540	2,662	2,993	51,199
Other frozen dairy products	915	740	502	369	228	196	5,978
"Meliorine-type" frozen desserts	6,201	5,686	5,074	4,617	3,180	3,215	55,566
Ice cream mix	42,098	39,452	34,893	31,229	25,005	26,880	392,738
Ice milk mix 10/	21,275	19,897	15,246	12,858	9,065	9,086	169,888
Milk sherbet mix	4,087	3,442	2,814	2,257	1,693	1,917	32,468
"Meliorine-type" mix	3,312	3,061	2,697	2,517	1,711	1,750	29,805

5/ Milkfat content not less than 4.0 percent. 6/ Milkfat content less than 4.0 percent. This product is not legal in interstate commerce and in many States. 7/ Includes some dry ice milk mix. 8/ Does not include counterfreezers. 9/ Includes freezer-made milkshake. See footnotes table 24. 10/ Includes milkshake mix.

Table 2. Manufactured dairy products: Production of specified products,
United States, by months, 1970

Product							
	Plants		January	February	March	April	May
	Number	1,000 pounds					
Butter, creamery	619	99,748	92,528	106,954	110,918	116,865	113,314
Cheese:							
American:							
Cheddar	558	87,309	85,672	101,855	111,058	126,253	128,010
Other types, whole milk 1/	218	18,503	16,602	18,519	19,462	21,914	22,700
Part skim	6	370	451	472	469	542	571
Swiss, including block	90	10,619	9,965	12,010	12,317	13,959	14,111
Munster	75	2,517	2,666	2,919	3,010	2,977	3,104
Brick	60	1,832	1,480	1,957	1,693	1,646	1,741
Limburger	8	245	249	262	214	203	203
All Italian types	197	32,057	29,565	34,843	33,246	33,430	32,917
Cream	27	9,067	9,299	10,588	8,748	8,070	9,565
Neufchâtel	7	457	410	398	446	409	327
Blue mold 2/	12	1,796	1,633	1,854	1,729	1,905	1,919
All other types	55	2,157	2,111	2,487	2,387	2,927	2,386
Total 3/	963	166,929	160,103	188,164	194,779	214,235	217,554
Full-skim American-type cheese	5	329	337	441	477	426	379
Cottage cheese:							
Curd 4/	593	55,683	58,487	65,108	63,726	64,471	65,249
Creamed 5/	584	75,442	78,945	87,887	86,331	87,281	89,251
Partially creamed 6/	84	4,001	4,248	4,702	4,828	4,594	4,968
Condensed milk:							
Sweetened:							
Case goods: Whole	4	3,584	1,713	3,113	2,719	3,547	3,462
Bulk goods:							
Whole	19	3,695	3,276	4,148	3,565	3,172	3,714
Skimmed	22	4,760	5,028	5,943	5,691	6,158	6,629
Unsweetened: Bulk goods:							
Whole	62	13,785	13,525	16,702	17,700	18,230	19,838
Skimmed	162	60,741	58,407	81,355	73,973	92,407	94,921
Evaporated milk, unsweetened:							
Case goods: Whole	42	97,676	91,616	103,840	108,382	130,104	138,497
Skimmed	10	2,506	3,003	2,787	2,251	1,476	862
Condensed or evaporated buttermilk	4	61	129	148	333	349	382
Condensed whey	35	17,426	16,885	17,423	18,375	20,126	20,579
Dry milk:							
Whole milk	36	5,434	5,576	6,329	6,291	7,305	7,253
Nonfat dry milk for human food:							
Spray process	203	103,381	103,178	126,995	137,068	169,279	167,207
Roller process	17	946	938	1,361	1,422	1,954	2,251
Total	219	104,327	104,116	128,356	138,490	171,233	169,458
Skim milk for animal feed	142	783	850	1,082	1,117	1,134	1,348
Whey: For human food	53	23,391	21,546	22,712	24,259	26,920	27,772
For animal feed	91	24,969	24,744	27,800	28,197	30,457	29,690
Total	116	48,360	46,290	50,512	52,456	57,377	57,462
Buttermilk	139	5,330	5,163	6,084	6,055	6,089	6,085
Malted milk powder	3	1,356	1,558	1,903	1,819	1,943	1,863
Milk sugar, crude	13	8,460	8,916	10,170	8,632	8,669	7,479
Dry ice cream mix 7/	3	2	1	14	8	2	2
Frozen products and mix:							
Ice cream	8/1,627	52,291	54,410	63,386	62,667	68,132	75,121
Ice milk 9/	8/1,087	15,282	16,560	21,490	24,943	30,211	34,077
Milk sherbet	8/1,120	2,906	3,004	3,868	4,097	4,949	5,673
Other frozen dairy products	105	259	355	486	578	829	952
"Mellorine-type" frozen desserts	8/196	3,340	3,727	4,365	4,606	4,854	5,304
Water ices	336	1,009	1,434	2,236	3,231	4,666	5,780
Ice cream mix	1,258	26,593	27,652	32,178	31,841	35,204	38,543
Ice milk mix 10/	1,198	9,333	10,308	13,216	15,493	18,774	21,121
Milk sherbet mix	839	1,807	1,912	2,434	2,562	3,110	3,541
"Mellorine-type" mix	214	1,785	2,050	2,347	2,491	2,647	2,831

1/ Includes Colby, washed or stirred curd, high and low moisture jack, Monterey, and granular.

2/ Includes Gorgonzola. 3/ Excluding full-skim American and cottage cheese. 4/ Used for processing into full or partially creamed cottage cheese or for sale to consumers in dry form. See footnote 1, page 24.

Table 2. Manufactured dairy products: Production of specified products, United States, by months, 1970 Continued

Product	July	August	September	October	November	December	Total	Change from 1969
	1,000 pounds						Percent	
Butter, creamery	92,129	78,743	71,850	81,580	78,944	93,109	1,136,682	+ 2
Cheese:								
American:								
Cheddar	114,061	98,868	84,980	84,818	76,956	90,928	1,190,768	+ 13
Other types, whole milk 1/	20,551	18,789	18,631	19,724	18,582	21,146	235,123	+ 13
Part skim	528	438	432	293	241	276	5,083	- 8
Swiss, including block	13,658	12,762	11,514	11,740	10,786	10,516	143,957	+ 9
Munster	3,073	2,991	2,715	3,118	2,893	3,114	35,097	+ 8
Brick	2,004	1,830	1,648	1,694	1,795	1,516	20,836	0
Limburger	196	239	243	257	250	230	2,791	- 5
All Italian types	30,014	32,330	31,583	34,600	32,552	36,531	393,668	+ 9
Cream	8,755	7,723	10,366	12,164	12,795	14,124	121,264	+ 2
Neufchatel	337	407	370	456	409	408	4,834	- 3
Blue mold 2/	1,953	2,049	2,033	2,224	2,058	2,097	23,250	+ 11
All other types	1,989	2,032	1,979	2,195	2,070	2,365	27,085	+ 12
Total 3/	197,119	180,458	166,494	173,283	161,387	183,251	2,203,756	+ 11
Full-skim American-type cheese	307	276	146	309	266	276	3,969	+ 13
Cottage cheese:								
Curd 4/	63,001	60,727	60,283	60,609	55,637	53,005	725,986	+ 7
Creamed 5/	83,931	81,209	81,439	81,687	73,779	71,237	978,419	+ 8
Partially creamed 6/	5,960	5,552	5,631	5,558	5,056	4,672	59,770	+ 34
Condensed milk:								
Sweetened:								
Case goods: whole	3,396	3,460	6,432	6,370	7,385	5,239	50,420	- 41
Bulk goods:								
Whole	3,081	4,468	4,837	5,245	2,840	2,203	44,244	- 29
Skimmed	5,559	7,129	6,852	6,767	5,486	4,517	70,519	- 5
Unsweetened: Bulk goods:								
Whole	20,708	21,063	17,213	18,462	12,747	14,366	204,339	- 11
Skimmed	91,866	89,118	75,346	76,353	63,113	63,508	921,108	+ 4
Evaporated milk, unsweetened:								
Case goods: Whole	114,283	106,405	85,924	79,391	70,540	91,247	1,217,905	- 13
Skimmed	1,265	1,512	2,173	2,025	1,934	2,576	24,370	- 1
Condensed or evaporated buttermilk	542	776	836	634	434	332	4,956	+1,164
Condensed whey	19,627	18,876	17,441	17,460	17,853	19,321	221,392	+ 39
Dry milk:								
Whole milk	6,270	5,788	5,148	4,008	3,957	5,390	68,749	- 2
Nonfat dry milk for human food								
Spray process	140,067	116,414	87,193	88,901	80,527	108,150	1,428,360	0
Roller process	1,319	1,271	980	650	590	759	14,441	- 32
Total	141,386	117,685	88,173	89,551	81,117	108,909	1,442,801	- 1
Skim milk for animal feed	1,390	968	822	883	829	818	12,024	- 17
Whey: For human food	27,031	23,812	23,260	24,220	23,880	25,056	293,859	+ 27
For animal feed	28,404	29,189	26,579	25,866	24,513	26,164	326,572	+ 14
Total	55,435	53,001	49,839	50,086	48,393	51,220	620,431	+ 20
Buttermilk	4,741	3,951	3,542	4,050	3,864	4,568	59,522	- 11
Malted milk powder	1,315	1,461	1,633	1,636	1,334	1,547	19,368	+ 4
Milk sugar, crude	6,629	6,805	7,050	8,049	8,031	8,749	97,639	+ 5
Dry ice cream mix 7/	2	37	1	1	1	1	72	- 62
Frozen products and mix:								
Ice cream	78,736	74,227	69,268	60,398	51,066	53,314	763,016	0
Ice milk 9/	36,472	33,654	26,736	20,826	15,685	15,615	291,551	+ 6
Milk sherbet	5,940	5,344	4,106	3,391	2,781	2,822	48,881	- 5
Other frozen dairy products	989	840	550	381	261	239	6,719	+ 12
"Mellorine-type" frozen desserts	5,662	5,227	4,765	3,975	2,950	2,995	51,770	- 7
Water ices	6,129	4,765	2,911	1,551	870	908	35,490	
Ice cream mix	40,695	38,177	35,254	30,386	25,948	26,887	389,358	- 1
Ice milk mix 10/	22,615	20,718	16,487	13,131	9,740	10,003	180,939	+ 7
Milk sherbet mix	3,803	3,408	2,589	2,113	1,711	1,723	30,713	- 5
"Mellorine-type" mix	3,049	2,811	2,478	2,160	1,642	1,716	28,007	- 6

5/ Milkfat content not less than 4.0 percent. 6/ Milkfat content less than 4.0 percent. This product is not legal in interstate commerce and in many States. 7/ Includes some dry ice milk mix. 8/ Does not include counterfreezers. 9/ Includes freezer-made milkshake. See footnotes table 24. 10/ Includes milkshake mix.

Table 3. Butter, creamery: Production, by States, by months, 1970, and annual 1969 and 1970

State	1970							
	January	February	March	April	May	June	July	August
	1,000 pounds							
Maine	6	8	6	5	8	8	5	5
Vt.	947	875	730	1,236	1,219	1,099	320	261
N. Y.	4,894	3,959	5,095	6,495	7,221	6,969	4,252	2,366
Pa.	2,441	2,363	2,507	2,941	2,599	2,826	1,916	1,486
Ohio	2,158	1,702	1,995	1,901	1,855	1,856	1,477	1,038
Ind.	2,322	2,158	2,392	2,721	3,032	2,551	1,276	1,165
Ill.	2,074	1,985	1,979	1,975	2,030	1,513	1,292	1,252
Mich.	2,621	2,400	2,518	2,718	3,079	3,529	2,555	2,665
Wis.	16,101	15,488	18,237	19,989	22,139	21,706	16,367	13,532
Minn.	27,481	26,081	30,373	29,887	30,753	28,863	24,291	19,738
Iowa	7,461	7,463	8,483	8,701	9,849	9,621	8,770	7,503
Mo.	2,398	2,199	2,620	2,496	2,086	1,950	1,713	1,641
N. Dak.	1,842	1,885	2,112	2,282	2,304	2,465	2,220	1,796
S. Dak.	2,014	1,978	2,344	2,503	2,762	2,703	2,373	1,960
Nebr.	2,384	2,294	2,697	2,757	2,884	2,928	2,437	2,317
Kans.	1,299	1,181	1,274	1,270	1,238	1,053	878	736
Ga.	1/	1/	1/	1/	1/	1/	1/	1/
Ky.	1,620	1,475	1,831	1,786	1,331	1,333	1,021	1,155
Tenn.	1,666	1,366	1,283	1,031	954	668	629	743
Miss.	1/	1/	1/	1/	1/	1/	1/	1/
La.	415	273	115	115	134	116	153	48
Okla.	1,703	1,711	2,190	2,423	2,376	2,079	1,711	1,355
Texas	401	397	361	356	332	265	326	314
Mont.	240	204	220	240	242	263	236	207
Idaho	1,894	1,637	1,833	1,974	2,114	2,191	2,138	2,054
Wyo.	116	105	113	96	79	75	70	59
Colo.	753	606	621	643	574	522	444	358
Utah	813	659	685	779	843	875	688	572
Wash.	1,471	1,042	1,194	1,371	1,714	2,016	1,912	1,756
Oreg.	1,030	902	997	1,036	1,173	1,125	1,068	966
Calif.	6,475	6,004	7,354	6,972	7,685	7,873	7,720	7,990
Other States 1/	2,708	2,128	2,795	2,219	2,256	2,273	1,871	1,705
United States	99,748	92,528	106,954	110,918	116,865	113,314	92,129	78,743

Table 4. Cheese, Swiss: Production, by States, by months, 1970 and annual 1969 and 1970

	1,000 pounds							
Pa.	564	474	728	678	772	954	967	1,058
Ohio	563	563	743	881	1,137	1,075	1,036	972
Ill.	3,588	3,204	3,732	3,928	4,365	4,258	4,071	3,896
Wis.	2,562	2,564	3,009	2,941	3,555	3,627	3,740	3,615
Other States 1/	3,342	3,160	3,798	3,889	4,130	4,127	3,844	3,221
United States	10,619	9,965	12,101	12,317	13,959	14,111	13,658	12,762

See footnotes on page 13.

Table 3. Butter, creamery: Production, by States, by months, 1970, and annual 1969 and 1970 Continued

State	1970				Annual				
	September	October	November	December	1969		1970		
					Plants	Production	Plants	Production	
			1,000 pounds		Number	1,000 pounds	Number	1,000 pounds	
Maine	:	4	3	5	2	4	64	4	65
Vt.	:	967	749	520	414	6	9,417	5	9,337
N. Y.	:	1,957	2,500	2,657	2,592	30	2/42,547	27	50,957
Pa.	:	1,223	1,352	1,375	1,747	17	23,890	19	24,776
Ohio	:	1,032	1,383	1,350	1,742	15	18,516	11	19,489
Ind.	:	834	1,306	1,585	2,014	12	20,054	9	23,356
Ill.	:	1,365	1,784	1,872	1,933	17	25,592	15	21,054
Mich.	:	2,299	2,422	2,094	2,591	21	28,382	16	31,491
Wis.	:	12,366	14,147	13,246	15,514	77	207,528	74	198,832
Minn.	:	17,510	19,638	20,294	24,151	183	313,526	146	299,060
Iowa	:	6,629	7,196	6,268	7,640	66	99,262	53	95,584
Mo.	:	1,965	2,333	2,127	2,376	11	26,561	8	25,904
N. Dak.	:	1,488	1,385	1,375	1,664	40	25,529	33	22,818
S. Dak.	:	1,910	1,581	1,342	1,761	23	25,779	17	25,231
Nebr.	:	2,285	2,411	2,222	2,772	23	32,849	17	30,388
Kans.	:	867	1,108	1,049	1,248	10	15,275	8	13,201
Ga.	:	1/	1/	1/	1/	3	195	1/	1/
Ky.	:	1,111	1,558	1,518	1,987	4	15,600	4	17,726
Tenn.	:	718	1,034	1,313	1,357	6	12,207	5	12,762
Miss.	:	1/	1/	1/	1/	3	1,903		
La.	:	43	220	412	294	4	1,851	4	2,338
Okla.	:	1,115	2,043	2,086	2,444	6	17,678	6	23,236
Texas	:	266	413	371	393	8	4,851	6	4,195
Mont.	:	234	237	209	250	21	2,655	21	2,782
Idaho	:	1,798	1,870	1,678	1,919	15	23,521	14	23,100
Wyo.	:	56	62	71	76	7	1,380	7	978
Colo.	:	443	603	654	603	10	6,697	9	6,824
Utah	:	565	654	473	805	10	8,300	10	8,411
Wash.	:	1,654	1,696	1,654	1,736	20	12,907	19	19,216
Oreg.	:	1,002	1,125	920	1,161	20	12,170	16	12,505
Calif.	:	6,973	7,190	6,333	7,398	23	60,790	22	85,967
Other States 1/	:	1,171	1,577	1,871	2,525	12	20,752	14	25,099
United States	:	71,850	81,580	78,944	93,109	727	2/1,118,228	619	1,136,682

Table 4. Cheese, Swiss: Production, by States, by months, 1970, and annual 1969 and 1970 Continued

	1,000 pounds				Number	1,000 pounds	Number	1,000 pounds	
Pa.	:	996	1,013	1,014	757	6	7,730	6	9,975
Ohio	:	770	783	771	775	19	8,168	17	10,069
Ill.	:	3,538	3,685	3,210	3,276	10	44,677	10	44,751
Wis.	:	3,267	3,422	3,151	2,748	48	35,801	41	38,201
Other States 1/	:	2,943	2,837	2,640	2,960	16	35,236	16	40,961
United States	:	11,514	11,740	10,786	10,516	99	131,612	90	143,957

1/ States not shown when less than 3 plants reported or individual plant operations might be disclosed.
 2/ Revised.

Table 5. Cheese, total, excluding full-skim American and cottage: Production, by States, by months, 1970, and annual 1969 and 1970

State	1970							
	January	February	March	April	May	June	July	August
	1,000 pounds							
Vt.	2,323	2,259	2,834	3,466	3,465	3,449	2,973	2,509
Mass.	507	488	623	556	479	497	491	444
R. I.	62	68	115	66	55	62	46	52
Conn.	152	173	284	170	100	165	135	167
N. Y.	12,851	12,335	14,310	14,180	14,254	14,892	12,659	11,053
N. J.	561	508	678	648	567	461	383	378
Pa.	1,651	1,574	2,380	1,918	2,104	2,264	2,039	2,087
Ohio	2,560	2,910	3,435	3,420	4,191	3,934	3,979	3,721
Ind.	1,757	1,509	1,933	2,024	2,497	2,214	2,362	2,228
Ill.	6,819	6,311	7,432	7,472	8,168	8,136	7,770	7,465
Mich.	2,076	1,954	2,294	2,303	2,655	2,940	2,698	2,567
Wis.	74,846	71,760	82,184	84,895	92,383	93,921	83,743	75,766
Minn.	14,343	13,680	15,180	14,872	14,934	14,403	12,017	10,784
Iowa	8,475	7,638	8,522	8,240	8,779	9,103	9,093	8,678
Mo.	5,802	5,412	6,290	8,169	11,149	11,201	10,904	9,054
N. Dak.	2,636	2,574	2,943	3,047	3,382	3,731	3,439	2,965
S. Dak.	1/	1/	1/	1/	1/	1/	1/	1/
Nebr.	2,367	2,262	2,711	2,784	3,231	3,606	3,367	3,235
Kans.	1,956	1,912	2,255	2,483	3,087	3,064	2,936	2,035
Ky.	3,095	3,625	4,901	5,974	7,476	7,721	7,592	6,834
Tenn.	3,118	2,559	3,616	4,394	5,235	5,581	5,184	5,020
Ala.	304	373	541	523	361	425	373	247
Miss.	746	533	698	736	795	1,048	814	747
Ark.	1,122	1,025	1,131	1,247	1,428	1,388	1,412	1,296
La.	328	332	431	418	386	375	313	296
Oklahoma.	1/	1/	1/	1/	1/	1/	1/	1/
Texas	583	728	1,116	1,146	1,137	1,136	963	864
Mont.	237	287	369	375	480	489	384	328
Idaho	4,119	4,195	5,294	4,602	5,291	5,471	4,712	4,595
Wyo.	1/	1/	1/	1/	1/	1/	1/	1/
Utah	2,240	2,165	2,581	2,566	2,818	2,841	2,813	2,912
Wash.	1,471	1,527	1,828	1,919	1,871	1,550	1,341	3,305
Oreg.	1/	1/	1/	1/	1/	1/	1/	1/
Calif.	1,139	1,165	1,455	1,434	1,546	1,536	1,549	1,529
Other States 1/	6,683	6,262	7,800	8,732	9,931	9,950	8,635	7,297
United States	166,929	160,103	188,164	194,779	214,235	217,554	197,119	180,458

Table 6. Cheese, Brick: Production, by States, by months, 1970, and annual 1969 and 1970

	1,000 pounds							
Ohio	29	20	30	47	52	32	19	53
Ill.	1		107	231	107	137	243	88
Mich.	1/	1/	1/	1/	1/	1/	1/	1/
Wis.	1,141	1,012	1,199	1,184	1,230	1,189	1,119	902
Other States 1/	661	448	621	231	257	383	623	787
United States	1,832	1,480	1,957	1,693	1,646	1,741	2,004	1,830

See footnotes on page 14.

Table 5. Cheese, total, excluding full-skim American and cottage: Production, by States, by months, 1970, and annual 1969 and 1970 Continued

State	1970				Annual			
	September	October	November	December	1969		1970	
					Plants	Production	Plants	Production
	1,000 pounds				Number	1,000 pounds	Number	1,000 pounds
Vt.	2,573	2,306	1,949	2,624	16	30,953	16	32,730
Mass.	537	553	597	658	10	5,545	12	6,430
R. I.	67	64	64	68	1/	1/	3	789
Conn.	168	177	185	160	1/	1/	3	2,036
N. Y.	12,169	12,428	12,202	14,984	2/63	2/146,164	62	158,317
N. J.	448	620	586	771	15	6,290	14	6,609
Pa.	2,128	2,133	2,082	2,155	24	21,951	24	24,515
Ohio	3,643	3,578	3,913	4,241	28	40,025	26	43,525
Ind.	1,793	1,747	1,576	1,686	10	24,291	8	23,326
Ill.	6,701	6,921	6,358	6,633	39	80,899	38	86,186
Mich.	2,513	2,437	2,189	2,192	19	28,749	19	28,818
Wis.	69,007	74,944	68,283	75,859	507	866,593	481	947,591
Minn.	10,427	11,843	13,498	15,558	17	130,721	18	161,539
Iowa	8,523	8,700	8,537	9,228	30	94,244	28	103,516
Mo.	8,263	8,370	6,759	7,189	2/25	2/93,395	24	98,562
N. Dak.	2,389	2,255	2,164	2,672	13	34,119	15	34,197
S. Dak.	1/	1/	1/	1/	20	45,489	1/	1/
Nebr.	3,351	3,444	3,423	3,566	10	25,552	13	37,347
Kans.	1,904	2,050	1,940	2,243	13	23,724	13	27,865
Ky.	5,555	5,225	3,298	3,667	15	57,707	15	64,963
Tenn.	4,119	3,625	2,938	3,529	13	49,255	13	48,918
Ala.	154	119	164	495	3	3,341	3	4,019
Miss.	547	374	420	977	5	8,000	3	8,435
Ark.	1,169	1,177	1,163	1,939	5	14,985	5	15,497
La.	248	341	416	437	4	3,663	4	4,381
Okla.	1/	1/	1/	1/	3	5,836	1/	1/
Texas	760	800	723	1,168	4	10,470	4	11,124
Mont.	317	282	266	400	5	3,678	5	4,214
Idaho	5,203	4,723	4,767	5,169	16	53,690	16	58,141
Wyo.	1/	1/	1/	1/	3	2,364	1/	1/
Utah	2,811	3,138	2,879	3,202	16	24,203	14	32,966
Wash.	1,384	1,484	1,058	1,388	8	15,520	8	20,126
Oreg.	1/	1/	1/	1/	8	11,561	1/	1/
Calif.	1,510	1,519	1,478	1,600	16	13,675	17	17,460
Other States 1/	6,113	5,906	5,512	6,793	12	12,937	39	89,614
United States	166,494	173,283	161,387	183,251	2/995	2/1,989,589	963	2,203,756

Table 6. Cheese, Brick: Production, by States, by months, 1970, and annual 1969 and 1970 Continued

	1,000 pounds				Number	1,000 pounds	Number	1,000 pounds
Ohio	29	48	36	29	6	416	5	424
Ill.	1	1	46	1	4	44	3	962
Mich.	1/	1/	1/	1/	4	4,029	1/	1/
Wis.	968	1,113	1,067	1,046	44	13,299	37	13,170
Other States 1/	651	532	646	440	9	3,061	15	6,280
United States	1,648	1,694	1,795	1,516	67	20,849	60	20,836

1/ States not shown when less than 3 plants reported or individual plant operations might be disclosed.
2/ Revised.

Table 7. Cheese, American, total made from whole milk: Production, by States, by months, 1970, and annual 1969 and 1970 1/

State	1970									
	January	February	March	April	May	June	July	August		
	1,000 pounds									
Vt.	813	798	1,039	1,348	1,420	1,435	1,288	989		
N. Y.	3,332	3,352	3,949	5,005	5,860	5,955	4,526	3,280		
Pa.	2/	2/	2/	2/	2/	2/	2/	2/		
Ohio	705	719	814	865	1,163	1,018	1,012	857		
Ind.	1,046	860	1,115	1,205	1,545	1,391	1,558	1,491		
Ill.	1,123	975	1,136	1,141	1,359	1,426	1,432	1,228		
Mich.	1,187	1,301	1,320	1,630	1,931	2,135	1,535	1,404		
Wis.	50,894	49,373	56,960	60,591	67,470	68,278	60,264	52,579		
Minn.	11,494	10,792	11,889	11,766	11,576	11,355	9,468	8,614		
Iowa	5,970	5,582	6,326	6,032	6,489	6,821	6,281	6,079		
Mo.	4,902	4,633	5,417	7,118	10,241	10,181	9,988	8,153		
N. Dak.	2/	2/	2/	2/	2/	2/	2/	2/		
S. Dak.	3,429	3,253	3,764	3,702	3,967	4,092	3,671	2,885		
Nebr.	1,963	1,890	2,316	2,336	2,652	2,896	2,679	2,483		
Kans.	2/	2/	2/	2/	2/	2/	2/	2/		
Ky.	2,982	3,485	4,822	5,804	7,225	7,562	7,521	6,672		
Tenn.	2,269	1,739	2,426	3,452	4,215	4,428	4,190	3,932		
Ala.	304	373	541	523	361	425	313	247		
Miss.	746	533	698	736	795	1,048	814	747		
Ark.	455	364	410	704	866	752	830	656		
La.	2/	2/	2/	2/	2/	2/	2/	2/		
Okla.	2/	2/	2/	2/	2/	2/	2/	2/		
Texas	2/	2/	2/	2/	2/	2/	2/	2/		
Mont.	174	203	267	266	423	417	312	208		
Idaho	3,038	2,886	3,517	3,283	3,556	3,853	3,317	3,343		
Wyo.	2/	2/	2/	2/	2/	2/	2/	2/		
Utah	1,416	1,420	1,735	1,735	1,958	1,979	1,941	2,009		
Wash.	699	800	959	1,014	1,059	909	692	674		
Oreg.	519	615	1,130	1,793	1,912	1,924	1,659	1,640		
Calif.	127	135	234	274	300	305	284	255		
Other States 2/	6,225	6,193	7,590	8,197	9,824	10,125	9,037	7,232		
United States	105,812	102,274	120,374	130,520	148,167	150,710	134,612	117,657		

Table 8. Cheese, Munster: Production, by States, by months, 1970, and annual 1969 and 1970

	1,000 pounds							
Ill.	206	214	212	332	367	425	383	260
Wis.	2,074	2,053	2,413	2,419	2,426	2,430	2,359	2,306
Other States 2/	237	399	294	259	184	249	331	425
United States	2,517	2,666	2,919	3,010	2,977	3,104	3,073	2,991

See footnotes on page 17.

Table 7. Cheese, American, total made from whole milk: Production, by States, by months, 1970, and annual 1969 and 1970 1/ Continued

State	1970				Annual			
	September		October		1969		1970	
	Plants	Production	Plants	Production	Number	1,000 pounds	Number	1,000 pounds
1,000 pounds								
Vt.	921	700	486	966	8	12,163	8	12,203
N. Y.	2,892	2,595	2,266	2,560	23	41,738	20	45,572
Pa.	2/	2/	2/	2/	3	470	2/	2/
Ohio	880	960	910	861	7	9,739	8	10,764
Ind.	1,137	1,081	1,010	1,071	7	15,738	7	14,510
Ill.	983	974	866	1,090	20	11,477	17	13,733
Mich.	1,568	1,595	1,361	1,465	13	16,104	12	18,432
Wis.	45,303	47,478	43,410	49,740	381	579,972	368	652,340
Minn.	8,308	9,454	10,814	12,713	16	104,655	17	128,243
Iowa	5,799	5,851	5,981	6,641	27	68,892	26	73,852
Mo.	7,283	7,352	5,619	5,942	22	81,327	23	86,829
N. Dak.	2/	2/	2/	2/	13	34,119	2/	2/
S. Dak.	2,706	2,753	2,594	3,125	19	36,357	18	39,941
Nebr.	2,425	2,294	2,125	2,411	9	22,001	11	28,470
Kans.	2/	2/	2/	2/	12	23,644	2/	2/
Ky.	5,403	4,589	2,992	3,428	14	55,156	14	62,485
Tenn.	3,043	2,562	1,732	2,265	13	37,202	13	36,253
Ala.	154	119	164	495	3	3,341	3	4,019
Miss.	547	374	420	977	5	8,000	3	8,435
Ark.	515	493	546	1,359	5	6,993	5	7,950
La.	2/	2/	2/	2/	3	87	2/	2/
Okla.	2/	2/	2/	2/	3	5,836	2/	2/
Texas	2/	2/	2/	2/	4	10,470	2/	2/
Mont.	247	190	184	282	5	2,684	5	3,173
Idaho	3,480	3,098	3,041	3,312	16	36,289	16	39,724
Wyo.	2/	2/	2/	2/	3	166	2/	2/
Utah	1,878	2,098	1,872	2,149	16	15,426	14	22,190
Wash.	609	639	340	632	6	6,239	7	9,026
Oreg.	1,377	1,251	1,105	1,195	8	10,942	6	16,120
Calif.	213	200	183	176	6	2,616	6	2,686
Other States 2/	5,940	5,842	5,517	7,219	4	6,585	43	88,941
United States	103,611	104,542	95,538	112,074	694	1,266,428	670	1,425,891

*

Table 8. Cheese, Munster: Production, by States, by months, 1970, and annual 1969 and 1970 Continued

	1,000 pounds				Number	1,000 pounds	Number	1,000 pounds
Ill.	222	236	162	203	7	3,056	8	3,222
Wis.	2,174	2,434	2,135	2,405	51	24,337	51	27,628
Other States 2/	319	448	596	506	13	5,088	16	4,247
United States	2,715	3,118	2,893	3,114	71	32,481	75	35,097

1/ Includes Cheddar, Colby, washed or stirred curd, high and low moisture jack, Monterey and granular.

2/ States not shown when less than 3 plants reported or individual plant operations might be disclosed.

Table 9. Cheese, Cheddar, made from whole milk: Production, by States, by months, 1970, and annual 1969 and 1970

State	1970							
	January	February	March	April	May	June	July	August
	1,000 pounds							
Vt.	719	777	952	1,322	1,398	1,317	1,268	969
N. Y.	2,752	2,955	3,465	4,576	5,452	5,382	4,123	3,029
Ind.	298	257	302	342	422	420	452	431
Ill.	662	671	764	859	1,005	1,014	966	939
Mich.	356	273	501	493	575	636	665	615
Wis.	43,304	42,804	49,877	54,114	60,165	60,844	53,765	46,365
Minn.	9,135	8,847	10,043	9,842	9,808	9,334	7,556	6,651
Iowa	5,357	4,982	5,423	5,219	5,795	6,142	5,594	5,639
Mo.	4,529	4,297	4,961	5,820	8,261	7,986	7,854	6,469
N. Dak.	2,632	2,571	2,939	3,044	3,378	3,730	3,437	2,962
S. Dak.	3,343	3,168	3,673	3,609	3,863	3,994	3,578	2,802
Nebr.	1,269	1,239	1,818	1,624	2,072	2,233	2,072	1,920
Kans.	1,251	1,224	1,453	1,627	2,134	2,092	1,977	1,165
Ky.	2,694	3,293	4,414	5,201	6,634	7,061	7,015	6,189
Tenn.	2,190	1,658	2,235	3,257	4,039	4,221	3,962	3,779
Ala.	304	373	541	523	361	425	313	247
Miss.	746	533	698	736	795	1,048	814	747
Ark.	301	228	232	461	551	466	531	326
La.	1/	1/	1/	1/	1/	1/	1/	1/
Okla.	450	464	519	289	372	281	273	226
Texas	1/	1/	1/	1/	1/	1/	1/	1/
Mont.	174	203	267	266	423	417	312	208
Idaho	1,875	1,715	2,174	2,333	2,375	2,477	2,027	2,014
Wyo.	1/	1/	1/	1/	1/	1/	1/	1/
Utah	1,126	1,090	1,408	1,333	1,631	1,673	1,643	1,685
Wash.	272	393	449	494	473	458	307	254
Greg.	518	601	1,107	1,782	1,888	1,911	1,634	1,573
Calif.	12	12	55	57	46	58	42	40
Other States 1/	1,040	1,044	1,585	1,835	2,337	2,390	1,881	1,624
United States	87,309	85,672	101,855	111,058	126,253	128,010	114,061	98,868

Table 10. Cheese, Blue Mold: Production, by States, by months, 1970, and annual 1969 and 1970 2/

	1,000 pounds						
Wis.	1,008	923	1,074	922	1,037	1,062	1,086
Other States 1/	788	710	780	807	868	857	867
United States	1,796	1,633	1,854	1,729	1,905	1,919	1,953
							2,049

Table 11. Cheese, all other types: Production, by States, by months, 1970, and annual 1969 and 1970

	1,000 pounds						
N. Y.	712	708	838	767	792	711	654
Ohio	127	189	211	175	183	163	167
Mich.	1/	1/	1/	1/	1/	1/	1/
Wis.	947	886	1,007	1,050	1,098	1,169	775
Calif.	99	84	102	106	89	93	105
Other States 1/	272	244	329	289	765	250	288
United States	2,157	2,111	2,487	2,387	2,927	2,386	1,989
							2,032

See footnotes on page 19.

Table 9. Cheese, Cheddar, made from whole milk: Production, by States, by months, 1970, and annual 1969 and 1970 Continued

State	1970				Annual			
	September	October	November	December	1969		1970	
	1,000 pounds				Number	1,000 pounds	Number	1,000 pounds
Vt.	905	615	464	868	6	11,662	6	11,574
N. Y.	2,552	2,095	1,800	2,201	17	3/36,636	12	40,382
Ind.	374	350	260	253	3	5,113	3	4,161
Ill.	714	711	637	665	16	7,056	14	9,607
Mich.	632	577	550	589	4	2,702	4	6,462
Wis.	38,976	40,573	36,801	42,262	349	506,910	330	569,850
Minn.	6,076	7,062	7,475	8,416	13	80,297	13	100,245
Iowa	5,398	5,376	5,558	6,216	26	61,326	25	66,699
Mo.	5,669	5,930	4,779	5,054	21	70,627	22	71,609
N. Dak.	2,387	2,255	2,162	2,670	13	34,101	15	34,167
S. Dak.	2,629	2,663	2,511	3,028	18	35,460	17	38,861
Nebr.	1,810	1,701	1,506	1,896	9	16,410	11	21,160
Kans.	1,034	1,121	1,118	1,270	10	16,585	10	17,466
Ky.	4,954	4,096	2,677	3,127	13	48,575	13	57,355
Tenn.	2,889	2,395	1,642	2,188	13	35,823	13	34,455
Ala.	154	119	164	495	3	3,341	3	4,019
Miss.	547	374	420	977	5	8,000	3	8,435
Ark.	224	177	307	1,147	5	6,428	5	4,951
La.	1/	1/	1/	1/	3	87	1/	1/
Okla.	189	188	238	393	3	4,377	3	3,882
Texas	1/	1/	1/	1/	4	10,470	1/	1/
Mont.	247	190	184	282	5	2,684	5	3,173
Idaho	2,028	1,734	1,766	1,853	14	20,903	14	24,371
Wyo.	1/	1/	1/	1/	3	165	1/	1/
Utah	1,622	1,726	1,505	1,837	16	11,870	14	18,279
Wash.	209	280	226	233	6	2,670	7	4,048
Oreg.	1,330	1,206	1,055	1,115	8	10,648	6	15,720
Calif.	10	5	12	33	4	558	5	382
Other States 1/	1,421	1,299	1,139	1,860	6	6,615	15	19,455
United States	84,980	84,818	76,956	90,928	616	3/1,058,099	588	1,190,768

Table 10. Cheese, Blue Mold: Production, by States, by months, 1970, and annual 1969 and 1970 2/ Con.

	1,000 pounds				Number 1,000 pounds			
Wis.	1,174	1,332	1,204	1,209	4	12,284	4	13,217
Other States 1/	859	892	854	888	8	8,748	8	10,033
United States	2,033	2,224	2,058	2,097	12	21,032	12	23,250

Table 11. Cheese, all other types: Production, by States, by months, 1970, and annual 1969 and 1970 Con.

	1,000 pounds				Number 1,000 pounds			
N. Y.	646	696	649	769	10	3/7,773	11	8,570
Ohio	212	194	190	255	4	2,296	4	2,242
Mich.	1/	1/	1/	1/	3	453	1/	1/
Wis.	765	980	909	979	16	10,594	11	11,470
Calif.	99	97	96	110	7	1,137	7	1,175
Other States 1/	257	228	226	252	17	1,921	22	3,628
United States	1,979	2,195	2,070	2,365	57	3/24,174	55	27,085

1/ States not shown when less than 3 plants reported or individual plant operations might be disclosed.

2/ Includes Gorgonzola.

3/ Revised.

Table 12. Cheese, Italian: Production, by States, by months, 1970,
and annual 1969 and 1970

State	1970							
	January	February	March	April	May	June	July	August
1,000 pounds								
Vt.	1,221	1,146	1,457	1,745	1,927	1,922	1,543	1,402
Mass.	428	415	539	462	399	433	396	377
R. I.	62	68	115	66	55	62	46	52
Conn.	152	173	284	170	100	165	135	167
N. Y.	5,273	4,855	6,137	5,388	4,789	4,876	4,531	4,479
N. J.	561	507	678	647	567	460	383	377
Pa.	601	669	1,111	694	804	764	571	589
Ohio	1/	1/	1/	1/	1/	1/	1/	1/
Ill.	1,651	1,677	1,897	1,563	1,635	1,565	1,305	1,683
Mich.	1/	1/	1/	1/	1/	1/	1/	1/
Wis.	13,541	12,047	13,379	13,222	13,052	13,372	11,907	12,010
Minn.	1,229	1,160	1,586	1,345	1,605	1,284	1,284	1,219
Nebr.	404	372	395	448	579	710	688	752
Wash.	757	713	843	881	790	638	630	2,614
Calif.	789	820	964	942	1,007	1,007	1,019	1,053
Other States 1/	5,388	4,943	5,458	5,673	6,121	5,659	5,576	5,556
United States	32,057	29,565	34,843	33,246	33,430	32,917	30,014	32,330

See footnotes at end of table.

Table 13. Italian cheese production in the United States, 1969 and 1970
A. By major types

Types	1969	1970	Change	
			1969 to 1970	Percent
1,000 pounds				
Hard:				
Provolone and similars	1/38,730	43,847	+ 13.2	
Romano and similars	1/16,142	17,143	+ 6.2	
Parmesan and similars	30,176	31,796	+ 5.4	
Other hard	1/4,412	4,048	- 8.3	
Total hard	1/89,460	96,834	+ 8.2	
Soft				
Mozzarella and similars	1/226,709	244,486	+ 7.8	
Ricotta and similars	1/44,241	49,668	+ 12.3	
Other soft	844	2,680	+ 217.5	
Total soft	1/271,794	296,834	+ 9.2	
Total hard and soft	1/361,254	393,668	+ 9.0	

B. By regions

Region	Hard types		Soft types		Total (hard and soft)	
	1969	1970	1969	1970	1969	1970
1,000 pounds						
North Atlantic	1/1,120	762	1/91,603	104,065	1/92,723	104,827
East North Central	77,010	80,193	111,042	110,489	188,052	190,682
West North Central	9,577	14,426	38,870	46,105	48,447	60,531
South Central	692	505	6,932	7,535	7,624	8,040
West	1,061	948	23,347	28,640	24,408	29,588
United States	1/89,460	96,834	1/271,794	296,834	1/361,254	393,668

1/ Revised.

Table 12. Cheese, Italian: Production, by States, by months, 1970 and annual 1969 and 1970 Con.

State	1970				Annual			
	September		October		November		December	
	Plants	Number	Production	Plants	Number	Production	Plants	Number
1,000 pounds								
Vt.	1,256	1,528	1,391	1,631	9	15,952	9	18,169
Mass.	472	483	529	587	7	4,764	9	5,520
R. I.	67	64	64	68	1/	1/	3	789
Conn.	168	177	185	160	1/	1/	3	2,036
N. Y.	5,289	5,477	5,286	6,881	25	2/55,830	30	63,261
N. J.	447	619	586	771	14	6,283	13	6,603
Pa.	638	628	583	797	13	8,430	14	8,449
Ohio	1/	1/	1/	1/	3	6,721	1/	1/
Ill.	1,615	1,676	1,742	1,720	10	18,801	10	19,729
Mich.	1/	1/	1/	1/	4	5,151	1/	1/
Wis.	12,349	13,392	12,451	13,621	69	153,710	66	154,343
Minn.	1,171	1,290	1,377	1,726	3	12,930	3	16,276
Nebr.	926	1,150	1,298	1,155	1/	1/	3	8,877
Wash.	757	825	696	739	3	9,099	3	10,883
Calif.	1,055	1,086	1,021	1,100	8	8,373	8	11,863
Other States 1/	5,373	6,205	5,343	5,575	20	55,210	23	66,870
United States	31,583	34,600	32,552	36,531	188	2/361,254	197	393,668

1/ States not shown when less than 3 plants reported or individual plant operations might be disclosed.

2/ Revised.

Table 14. Cheese, processed, cheese foods, spreads, and cold pack: Production, United States, 1963-70 1/

Year	Processed cheese				Total			
	Processed, cheese		foods, spreads and cold pack 2/		Plants		Production	
	Plants	Production	Plants	Production	Number	1,000 pounds	Number	1,000 pounds
Number 1,000 pounds								
1963	40	669,830	48	210,133	57	879,963		
1964	43	659,668	49	207,990	62	867,658		
1965	44	631,312	46	228,517	62	859,829		
1966	43	621,787	44	262,436	58	884,223		
1967	42	724,301	41	285,885	52	1,010,186		
1968	45	643,723	42	327,547	58	971,270		
1969	42	650,161	40	367,195	56	1,017,356		
1970	40	686,383	40	451,614	54	1,137,997		

1/ 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, and condiments.

2/ Excludes spreads made from Neufchatel and cream cheese.

Table 15. Cheese: Production of specified types, by States,
by months, 1970, and annual 1969 and 1970

State	1970							
	January	February	March	April	May	June	July	August
	1,000 pounds							
<u>Cheese, American, other types, whole milk 1/</u>								
Vt.	: 94	21	87	26	22	118	20	20
N. Y.	: 580	397	484	429	408	573	403	251
Ohio	: 2/	2/	2/	2/	2/	2/	2/	2/
Ind.	: 748	603	813	863	1,123	971	1,106	1,060
Ill.	: 461	304	372	282	354	412	466	289
Mich.	: 831	1,028	819	1,137	1,356	1,499	870	789
Wis.	: 7,590	6,569	7,083	6,477	7,305	7,434	6,499	6,214
Minn.	: 2,359	1,945	1,846	1,924	1,768	2,021	1,912	1,963
Iowa	: 613	600	903	813	694	679	687	440
Mo.	: 373	336	456	1,298	1,980	2,195	2,134	1,684
S. Dak.	: 86	85	91	93	104	98	93	83
Nebr.	: 694	651	498	712	580	663	607	563
Ky.	: 288	192	408	603	591	501	506	483
Tenn.	: 79	81	191	195	176	207	228	153
Ark.	: 154	136	178	243	315	286	299	330
Idaho	: 1,163	1,171	1,343	950	1,181	1,376	1,290	1,329
Utah	: 290	330	327	402	327	306	298	324
Wash.	: 427	407	510	520	586	451	385	420
Oreg.	: 1	14	23	11	24	13	25	67
Calif.	: 115	123	179	217	254	247	242	215
Other States 2/	: 1,557	1,609	1,908	2,267	2,766	2,650	2,481	2,112
United States	: 18,503	16,602	18,519	19,462	21,914	22,700	20,551	18,789
<u>Cheese, Limburger :</u>								
Wis.	: 77	95	94	111	106	106	116	100
Other States 2/	: 168	154	168	103	97	97	80	139
United States	: 245	249	262	214	203	203	196	239
<u>Cheese, Cream</u>								
N. Y.	: 3,381	3,265	3,227	2,885	2,635	3,141	2,779	2,486
Pa.	: 258	231	282	267	236	283	263	218
Wis.	: 2,577	2,775	3,049	2,454	2,399	2,677	2,364	2,152
Other States 2/	: 2,851	3,028	4,030	3,142	2,800	3,464	3,349	2,867
United States	: 9,067	9,299	10,588	8,748	8,070	8,565	8,755	7,723
<u>Cheese, cottage, partially creamed 3/</u>								
N. Y.	: 198	186	240	239	228	225	1,295	1,220
Texas	: 333	338	375	393	279	314	319	320
Ariz.	: 188	215	240	218	226	243	251	229
Wash.	: 277	265	304	319	278	304	310	269
Oreg.	: 133	237	141	147	147	150	164	143
Calif.	: 2,203	2,198	2,524	2,600	2,534	2,712	2,683	2,511
Other States 2/	: 669	809	878	912	902	1,020	938	860
United States	: 4,001	4,248	4,702	4,828	4,594	4,968	5,960	5,552

See footnotes on page 23.

Table 15. Cheese: Production of specified types, by States,
by months, 1970, and annual 1969 and 1970 Continued

State	1970				Annual			
	September	October	November	December	1969		1970	
					Plants	Production	Plants	Production
	1,000 pounds				Number	1,000 pounds	Number	1,000 pounds
Cheese, American, other types, whole milk 1/								
Vt.	16	85	22	98	3	501	3	629
N. Y.	340	500	466	359	4/15	4/5,102	15	5,190
Ohio	2/	2/	2/	2/	7	9,631	2/	2/
Ind.	763	731	750	818	6	10,625	6	10,349
Ill.	269	263	229	425	11	4,421	9	4,126
Mich.	936	1,018	811	876	10	13,402	10	11,970
Wis.	6,327	6,905	6,609	7,478	94	73,062	101	82,490
Minn.	2,232	2,392	3,339	4,297	4	24,358	5	27,998
Iowa	401	475	423	425	7	7,566	6	7,153
Mo.	1,614	1,422	840	888	3	10,700	4	15,220
S. Dak.	77	90	83	97	3	897	4	1,080
Nebr.	615	593	619	515	4	5,591	4	7,310
Ky.	449	493	315	301	3	6,581	3	5,130
Tenn.	154	167	90	77	3	1,379	3	1,798
Ark.	291	316	239	212	1/	1/	3	2,999
Idaho	1,452	1,364	1,275	1,459	12	15,386	11	15,353
Utah	256	372	367	312	3	3,556	3	3,911
Wash.	400	359	114	399	4	3,569	5	4,978
Oreg.	47	45	50	80	3	294	3	400
Calif.	203	195	171	143	6	2,058	6	2,304
Other States 2/	1,789	1,939	1,770	1,887	10	9,650	14	24,735
United States	18,631	19,724	18,582	21,146	4/211	4/208,329	218	235,123
Cheese, Limburger :								
Wis.	83	104	108	90	4	1,281	4	1,190
Other States 2/	160	153	142	140	4	1,654	4	1,601
United States	243	257	250	230	8	2,935	8	2,791
Cheese, Cream :								
N. Y.	3,109	3,421	3,752	4,480	6	4/38,649	6	38,561
Pa.	259	248	275	363	4	3,131	4	3,183
Wis.	2,910	4,671	3,840	4,004	4	35,147	3	35,872
Other States 2/	4,088	3,824	4,928	5,277	4/14	41,404	14	43,648
United States	10,366	12,164	12,795	14,124	4/28	4/118,331	27	121,264
Cheese, cottage, partially creamed 3/								
N. Y.	1,210	1,135	1,018	932	10	4/2,533	4	8,126
Texas	325	317	263	246	13	4,814	10	3,822
Ariz.	248	244	229	201	3	1,682	3	2,732
Wash.	244	281	251	244	9	2,920	10	3,346
Oreg.	150	144	123	110	7	1,358	7	1,789
Calif.	2,553	2,559	2,365	2,141	13	24,867	14	29,583
Other States 2/	901	878	807	798	4/28	4/6,536	36	10,372
United States	5,631	5,558	5,056	4,672	4/83	4/44,710	84	59,770

1/ Includes Colby, washed or stirred curd, high and low moisture jack, Monterey and granular.

2/ States not shown when less than 3 plants reported or individual plant operations might be disclosed.

3/ Milkfat content less than 4.0 percent. This product is not legal in interstate commerce and in many States.

4/ Revised.

Table 16. Cheese, cottage, curd: Production, by States, by months, 1970, and annual 1969 and 1970 1/

State	1970							
	January	February	March	April	May	June	July	August
1,000 pounds								
Maine	1,113	1,197	1,274	1,275	1,326	1,510	1,234	1,288
Vt.	1,373	1,479	1,536	1,447	1,923	2,054	1,970	1,924
Mass.	34	38	34	51	43	46	42	39
Conn.	410	429	475	508	438	330	332	274
N. Y.	7,311	7,314	8,532	8,750	9,347	9,395	8,726	8,429
Pa.	2,716	2,873	3,087	3,210	3,144	3,166	3,231	3,169
Ohio	4,016	4,435	4,966	4,433	4,432	4,442	4,268	4,067
Ind.	1,600	1,607	1,826	1,748	1,653	1,720	1,687	1,561
Ill.	3,751	4,066	4,459	4,265	4,443	4,602	4,125	4,249
Mich.	3,234	3,193	3,675	3,563	3,513	3,700	3,510	3,235
Wis.	3,387	3,816	4,194	3,901	3,475	3,203	3,069	2,944
Minn.	1,371	1,408	1,618	1,605	1,522	1,617	1,539	1,331
Iowa	603	647	701	749	718	755	732	676
Mo.	1,292	1,284	1,331	1,287	1,399	1,467	1,492	1,432
N. Dak.	2/	2/	2/	2/	2/	2/	2/	2/
S. Dak.	217	211	265	285	279	298	319	277
Nebr.	574	577	679	679	615	620	643	568
Kans.	1,036	1,115	1,226	1,172	1,238	1,203	1,136	1,141
Md.	1,064	1,168	1,249	1,308	1,340	1,335	1,226	1,075
Va.	326	362	423	398	381	399	397	361
W. Va.	110	138	142	121	138	131	128	167
N. C.	435	496	483	611	598	589	563	538
Ga.	158	179	190	211	211	196	217	191
Fla.	1,507	1,684	1,796	1,662	1,656	1,721	1,530	1,599
Ky.	768	1,079	1,024	1,278	1,203	874	1,071	1,035
Tenn.	576	640	716	703	721	719	741	725
Ala.	124	134	131	145	158	161	136	149
Miss.	99	108	112	117	123	116	104	99
Ark.	59	64	84	70	73	73	68	62
La.	475	532	592	592	551	578	486	506
Oklahoma	632	717	759	696	714	735	716	708
Texas	1,201	1,327	1,517	1,466	1,481	1,507	1,517	1,456
Mont.	207	224	251	263	231	248	268	242
Idaho	185	190	215	210	213	223	231	210
Wyo.	2/	2/	2/	2/	2/	2/	2/	2/
Colo.	814	843	908	909	872	999	1,000	913
N. Mex.	313	351	397	370	346	384	396	366
Ariz.	710	811	848	792	743	801.	748	730
Utah	422	458	480	450	441	463	497	433
Wash.	1,319	1,285	1,508	1,473	1,484	1,483	1,491	1,378
Oreg.	977	1,015	1,076	1,059	996	1,053	1,026	1,009
Calif.	8,668	8,475	9,767	9,336	9,718	9,757	9,764	9,568
Alaska & Hawaii	150	166	184	175	180	169	181	171
Other States 2/	337	352	370	383	391	407	444	432
United States	55,683	58,487	65,108	63,726	64,471	65,249	63,001	60,727

1/ Used for processing into full or partially creamed cottage cheese or for sale to consumers in dry form. Cottage cheese curd and full or partially creamed cottage cheese should not be added together to obtain consumption. Although a small quantity of cottage cheese curd is sold direct for consumption in

(Continued on page 25)

Table 16. Cheese, cottage, curd: Production, by States, by months, 1970, and annual 1969 and 1970 1/ Con.

State	1970				Annual			
	September	October	November	December	1969		1970	
					Plants	Production	Plants	Production
1,000 pounds								
Maine	1,122	1,113	1,021	949	10	12,458	11	14,422
Vt.	1,796	1,773	1,614	1,435	6	17,080	6	20,324
Mass.	39	45	38	39	7	523	6	488
Conn.	414	420	496	416	7	5,231	6	4,951
N. Y.	8,025	8,241	7,237	7,307	3/34	3/91,363	32	98,614
Pa.	2,823	2,817	2,646	2,540	72	38,588	68	35,422
Ohio	4,183	4,287	3,888	3,730	62	47,881	59	51,147
Ind.	1,709	1,758	1,571	1,601	21	19,235	17	20,041
Ill.	4,441	4,167	3,865	3,758	28	47,255	28	50,191
Mich.	3,301	3,421	3,243	3,071	31	36,965	28	40,659
Wis.	3,020	2,999	2,778	2,651	25	42,304	19	39,437
Minn.	1,373	1,354	1,274	1,220	8	15,713	9	17,232
Iowa	703	721	647	643	12	7,960	11	8,295
Mo.	1,538	1,423	1,286	1,262	12	19,329	10	16,493
N. Dak.	2/	2/	2/	2/	3	913	2/	2/
S. Dak.	270	284	254	240	3	2,293	3	3,199
Nebr.	576	582	517	522	14	7,021	12	7,152
Kans.	1,150	1,226	1,135	1,136	18	11,853	16	13,914
Md.	1,163	1,152	1,017	1,027	10	12,780	10	14,124
Va.	372	411	344	327	16	3/4,562	15	4,501
W. Va.	161	171	146	144	6	1,392	7	1,697
N. C.	603	561	482	523	13	5,476	11	6,482
Ga.	199	198	153	152	8	3,137	7	2,255
Fla.	1,716	1,679	1,554	1,475	5	12,651	6	19,579
Ky.	826	887	1,020	743	9	10,311	8	11,808
Tenn.	667	651	578	534	12	6,786	12	7,971
Ala.	141	142	111	107	8	1,674	8	1,639
Miss.	100	90	84	82	4	1,238	4	1,234
Ark.	63	69	60	56	5	1,473	4	801
La.	573	517	469	443	10	6,163	9	6,314
Okla.	737	728	664	650	11	7,780	12	8,456
Texas	1,501	1,497	1,261	1,216	21	14,589	21	16,947
Mont.	225	233	216	210	13	2,747	11	2,818
Idaho	209	216	195	191	8	2,256	8	2,488
Wyo.	2/	2/	2/	2/	4	654	2/	2/
Colo.	879	900	828	780	12	9,158	13	10,645
N. Mex.	367	337	329	288	4	3,625	4	4,244
Ariz.	793	807	715	677	4	7,321	4	9,175
Utah	378	435	404	375	8	4,991	8	5,236
Wash.	1,284	1,380	1,325	1,255	17	17,277	16	16,665
Oreg.	921	958	927	771	16	10,277	15	11,788
Calif.	9,336	9,340	8,694	7,911	23	103,127	23	110,334
Alaska & Hawaii	168	179	155	152	3	1,835	3	2,030
Other States 2/	418	440	396	396	9	2,096	13	4,774
United States	60,283	60,609	55,637	53,005	3/632	3/679,341	593	725,986

dry form, most of it is creamed within the plant or shipped to another plant where a creaming mixture is added prior to sale. Partially creamed cottage cheese is shown by States in table 15.

2/ States not shown when less than 3 plants reported or individual plant operations might be disclosed.

3/ Revised.

Table 17. Cheese, cottage, creamed: Production, by States, by months, 1970 and annual 1969 and 1970

States	1970							
	January	February	March	April	May	June	July	August
	1,000 pounds							
Maine	1,483	1,596	1,699	1,698	1,763	2,009	1,645	1,715
Vt.	1,292	1,460	1,572	1,638	1,862	1,997	1,856	1,846
Mass.	47	53	48	71	60	64	58	55
Conn.	98	110	108	130	151	142	153	144
N. Y.	8,936	9,403	10,525	10,906	11,199	11,635	9,649	9,455
Pa.	3,746	4,008	4,474	4,479	4,398	4,491	4,088	3,922
Ohio	5,698	6,223	6,968	6,239	6,170	6,256	6,148	5,776
Ind.	2,500	2,540	2,980	2,800	2,703	2,798	2,708	2,540
Ill.	5,523	5,941	6,470	6,236	6,525	6,771	6,021	6,301
Mich.	5,004	4,961	5,659	5,433	5,427	5,756	5,472	5,010
Wis.	4,427	4,680	5,192	4,964	5,059	4,646	4,414	4,243
Minn.	2,017	2,121	2,409	2,381	2,248	2,367	2,254	1,918
Iowa	998	1,040	1,130	1,174	1,158	1,184	1,143	1,082
Mo.	2,026	2,025	2,055	2,000	2,176	2,282	2,296	2,246
N. Dak.	121	128	136	149	144	159	270	262
S. Dak.	284	276	345	368	365	388	411	362
Neb.	895	885	1,050	1,035	919	966	991	851
Kans.	1,466	1,569	1,715	1,661	1,751	1,681	1,624	1,630
Md.	1,550	1,684	1,790	1,870	1,898	1,896	1,721	1,494
Va.	418	434	513	493	469	470	464	423
W. Va.	166	212	227	189	218	210	203	213
N. C.	607	714	677	867	859	846	800	747
Ga.	247	277	301	321	329	306	338	298
Fla.	2,202	2,451	2,614	2,417	2,421	2,515	2,229	2,336
Ky.	863	986	1,192	1,162	1,214	1,165	1,139	1,169
Tenn.	833	914	1,032	1,013	1,048	1,049	1,067	1,047
Ala.	148	153	154	174	184	185	162	165
Miss.	134	158	163	166	153	152	149	147
Ark.	89	96	123	105	106	109	101	93
La.	708	773	885	878	825	854	700	735
Okla.	945	1,096	1,149	1,062	1,072	1,129	1,085	1,064
Texas	1,542	1,650	1,858	1,886	1,934	1,944	1,912	1,840
Mont.	335	352	391	411	363	411	423	384
Idaho	282	295	330	321	325	343	356	321
Wyo.	1/	1/	1/	1/	1/	1/	1/	1/
Colo.	1,227	1,255	1,345	1,325	1,274	1,450	1,480	1,352
N. Mex.	466	523	572	547	518	564	587	543
Ariz.	882	978	1,057	988	913	985	924	918
Utah	708	733	784	776	744	807	839	716
Wash.	1,872	1,837	2,083	2,057	2,130	2,117	2,101	1,964
Oreg.	1,368	1,409	1,550	1,515	1,493	1,551	1,515	1,489
Calif.	10,711	10,343	11,905	11,767	12,048	11,950	11,792	11,780
Alaska & Hawaii	201	213	237	230	242	219	241	222
Other States 1/	377	390	420	429	423	432	402	371
United States	75,442	78,945	87,887	86,331	87,281	89,251	83,931	81,209

See footnotes at end of table

Table 17. Cheese, cottage, creamed: Production, by States, by months, 1970, and annual 1969 and 1970 Continued

State	1970				Annual			
	September	October	November	December	1969		1970	
					Plants	Production Number 1,000 pounds	Plants	Production Number 1,000 pounds
1,000 pounds								
Maine	1,494	1,481	1,358	1,262	8	16,638	10	19,203
Vt.	1,651	1,642	1,491	1,215	5	15,377	5	19,522
Mass.	54	63	53	54	7	730	6	680
Conn.	130	154	131	129	7	1,586	5	1,580
N. Y.	9,128	9,206	8,081	8,119	2/36	2/112,114	31	116,242
Pa.	3,818	3,950	3,427	3,439	63	46,647	60	48,240
Ohio	5,927	6,165	5,467	5,342	63	2/69,399	63	72,379
Ind.	2,779	2,839	2,563	2,630	22	31,518	18	32,380
Ill.	6,607	6,117	5,753	5,673	27	71,034	27	73,938
Mich.	5,132	5,303	4,930	4,700	31	57,167	26	62,787
Wis.	4,360	4,254	4,022	3,759	19	52,459	17	54,020
Minn.	1,956	1,977	1,807	1,732	9	23,953	8	25,187
Iowa	1,120	1,173	1,045	1,015	14	12,604	14	13,262
Mo.	2,410	2,168	1,996	1,946	13	28,594	10	25,626
N. Dak.	254	292	268	277	4	1,436	3	2,460
S. Dak.	352	367	329	312	3	3,004	3	4,159
Nebr.	871	880	788	792	14	10,574	13	10,923
Kans.	1,635	1,682	1,544	1,551	17	18,125	15	19,509
Md.	1,595	1,622	1,434	1,419	10	17,552	10	19,973
Va.	447	484	412	398	2/16	2/5,877	15	5,425
W. Va.	200	213	185	183	7	2,173	7	2,419
N. C.	852	802	697	746	13	7,659	11	9,214
Ga.	305	301	234	234	8	4,659	7	3,491
Fla.	2,496	2,461	2,265	2,337	5	18,657	6	28,744
Ky.	923	987	806	768	11	11,489	10	12,374
Tenn.	972	948	832	768	12	9,831	12	11,523
Ala.	163	163	139	137	2/8	2/1,839	8	1,927
Miss.	136	135	131	113	4	1,594	5	1,737
Ark.	99	102	88	85	4	2,187	3	1,196
La.	828	751	677	647	9	9,141	9	9,261
Oklahoma	1,108	1,094	1,007	973	11	11,651	12	12,784
Texas	1,938	1,905	1,666	1,568	19	17,741	19	21,643
Mont.	354	370	343	328	13	4,350	11	4,465
Idaho	319	324	294	290	8	3,444	8	3,800
Wyo.	1/	1/	1/	1/	4	866	1/	1/
Colo.	1,296	1,316	1,227	1,141	15	13,994	15	15,688
N. Mex.	558	552	458	448	4	5,228	4	6,336
Ariz.	976	985	843	810	4	9,602	4	11,259
Utah	671	718	652	647	8	8,180	8	8,795
Wash.	1,887	2,009	1,901	1,850	18	24,624	16	23,808
Oreg.	1,406	1,444	1,360	1,268	16	14,607	16	17,368
Calif.	11,630	11,681	10,531	9,605	20	124,703	20	135,743
Alaska & Hawaii	229	238	215	208	3	2,357	3	2,695
Other States 1/	373	369	329	319	9	3,007	11	4,654
United States	81,439	81,687	73,779	71,237	2/621	2/909,971	584	978,419

1/ States not shown when less than 3 plants reported or individual plant operations might be disclosed.
2/ Revised.

Table 18. Condensed milk: Production of specified products, by States, by months, 1970, and annual 1969 and 1970

State	1970							
	January	February	March	April	May	June	July	August
	1,000 pounds							
<u>Condensed milk, bulk goods, sweetened, whole</u>								
N. Y.	1/	1/	1/	1/	1/	1/	1/	1/
Ill.	1/	1/	1/	1/	1/	1/	1/	1/
Wis.	2,270	1,723	2,071	1,978	1,742	1,768	1,407	2,951
Other States 1/	1,425	1,553	2,077	1,587	1,430	1,946	1,674	1,517
United States	3,695	3,276	4,148	3,565	3,172	3,714	3,081	4,468
<u>Condensed milk, bulk goods, sweetened, skimmed</u>								
N. Y.	1/	1/	1/	1/	1/	1/	1/	1/
Pa.	288	519	441	490	388	635	413	540
Wis.	3,296	3,392	4,122	4,112	4,639	4,929	4,131	4,946
Other States 1/	1,176	1,117	1,380	1,089	1,131	1,065	1,015	1,643
United States	4,760	5,028	5,943	5,691	6,158	6,629	5,559	7,129
<u>Condensed milk, bulk goods, unsweetened, whole</u>								
N. Y.	3,836	3,555	4,329	3,863	4,147	4,624	4,527	4,977
Pa.	1,279	1,298	1,794	1,719	2,018	1,683	2,091	2,473
Ohio	1/	1/	1/	1/	1/	1/	1/	1/
Wis.	1,834	2,170	2,490	3,177	2,544	2,889	3,085	2,856
Md.	2,093	1,748	2,192	2,138	2,072	2,874	2,706	2,845
Tenn.	540	691	905	1,038	1,373	1,517	1,625	1,706
Miss.	1/	1/	1/	1/	1/	1/	1/	1/
Wash.	1/	1/	1/	1/	1/	1/	1/	1/
Calif.	1,334	1,215	1,486	1,735	1,873	1,763	1,260	1,424
Other States 1/	2,869	2,848	3,506	4,030	4,203	4,488	5,414	4,782
United States	13,785	13,525	16,702	17,700	18,230	19,838	20,708	21,063
<u>Condensed milk, bulk goods, unsweetened, skimmed</u>								
Vt.	1,928	1,202	1,247	1,164	1,420	952	1,938	2,968
N. Y.	5,813	6,932	8,795	8,101	8,278	9,582	9,031	9,265
Pa.	3,814	4,208	5,383	5,780	7,283	7,372	7,017	8,245
Ohio	3,091	3,004	4,002	3,601	4,401	5,365	8,770	5,688
Ind.	2,924	2,555	3,464	3,886	3,997	4,150	3,651	3,082
Ill.	639	700	948	870	1,074	1,224	1,452	1,235
Mich.	8,116	7,878	13,671	10,482	17,545	18,944	11,183	12,666
Wis.	9,877	8,787	11,920	10,123	13,077	14,642	15,982	16,134
Minn.	782	571	237	197	285	180	166	171
Iowa	1,967	1,873	2,508	2,555	2,706	3,205	3,025	3,224
Mo.	2,096	1,330	2,722	3,052	5,055	3,924	3,615	1,963
Kans.	2,927	1,885	2,233	2,079	2,409	1,998	1,025	1,038
Md.	1,695	1,312	1,527	1,036	1,105	1,000	1,255	1,057
Va.	1/	1/	1/	1/	1/	1/	1/	1/
Tenn.	233	389	358	437	529	549	1,225	933
Miss.	1/	1/	1/	1/	1/	1/	1/	1/
La.	1,053	1,378	1,881	1,628	1,786	1,439	1,109	1,665
Okl.	1,340	806	1,537	1,563	2,676	2,089	1,611	1,128
Texas	1/	1/	1/	1/	1/	1/	1/	1/
Utah	1/	1/	1/	1/	1/	1/	1/	1/
Wash.	1,163	1,340	1,425	1,085	1,191	1,261	1,082	1,205
Calif.	4,837	5,385	9,306	7,219	8,214	6,963	9,193	8,467
Other States 1/	6,446	6,872	8,191	9,115	9,376	10,082	9,536	8,984
United States	60,741	58,407	81,355	73,973	92,407	94,921	91,866	89,118

See footnotes on page 29.

Table 18. Condensed milk: Production of specified products, by States, by months, 1970, and annual 1969 and 1970 Continued

State	1970				Annual			
	September	October	November	December	1969		1970	
					Plants	Production	Plants	Production
	1,000 pounds				Number	1,000 pounds	Number	1,000 pounds
Condensed milk, bulk goods, sweetened, whole								
N. Y.	1/	1/	1/	1/	3	605	1/	1/
Ill.	1/	1/	1/	1/	3	16,421	1/	1/
Wis.	2,710	2,903	1,913	1,478	5	33,240	4	24,914
Other States 1/	2,127	2,342	927	725	9	12,153	15	19,330
United States	4,837	5,245	2,840	2,203	20	62,419	19	44,244
Condensed milk, bulk goods, sweetened, skimmed								
N. Y.	1/	1/	1/	1/	3	936	1/	1/
Pa.	410	514	348	285	5	5,997	3	5,271
Wis.	4,975	4,806	3,789	3,129	5	53,316	6	50,266
Other States 1/	1,467	1,447	1,349	1,103	11	14,280	13	14,982
United States	6,852	6,767	5,486	4,517	24	74,529	22	70,519
Condensed milk, bulk goods, unsweetened, whole								
N. Y.	3,751	6,253	2,168	2,151	2/15	2/58,258	12	48,181
Pa.	1,707	2,015	1,985	2,314	14	2/27,671	11	22,376
Ohio	1/	1/	1/	1/	3	9,183	1/	1/
Wis.	2,147	2,076	1,906	1,757	7	29,096	6	28,931
Md.	3,058	2,517	2,261	2,317	4	32,274	4	28,821
Tenn.	1,438	1,188	1,004	819	6	13,083	4	13,844
Miss.	1/	1/	1/	1/	3	12,269	1/	1/
Wash.	1/	1/	1/	1/	3	5,924	1/	1/
Calif.	1,358	1,183	870	867	8	18,723	8	16,368
Other States 1/	3,754	3,230	2,553	4,141	14	23,281	17	45,818
United States	17,213	18,462	12,747	14,366	2/77	2/229,762	62	204,339
Condensed milk, bulk goods, unsweetened, skimmed								
Vt.	1,286	2,761	2,198	1,648	3	25,106	4	20,712
N. Y.	6,993	7,867	6,492	6,550	2/17	2/98,724	13	93,699
Pa.	7,322	6,884	6,157	5,555	21	2/72,996	22	75,020
Ohio	5,229	4,323	3,541	3,688	13	50,195	11	54,703
Ind.	2,810	2,744	2,279	1,750	5	37,383	5	37,292
Ill.	751	886	802	894	3	14,334	4	11,475
Mich.	8,659	12,975	6,673	7,418	8	93,783	7	136,210
Wis.	14,760	13,538	12,561	12,365	19	137,249	20	153,766
Minn.	175	249	186	67	6	6,161	3	3,266
Iowa	3,287	3,173	3,054	3,278	5	25,530	4	33,855
Mo.	1,898	2,265	1,865	1,637	6	25,661	4	31,422
Kans.	796	688	520	676	5	32,003	6	18,274
Md.	770	717	1,016	958	3	18,941	3	13,448
Va.	1/	1/	1/	1/	3	18,862	1/	1/
Tenn.	589	559	428	386	4	8,782	4	6,615
Miss.	1/	1/	1/	1/	3	7,159	1/	1/
La.	1,453	1,185	1,146	1,216	3	9,275	3	16,939
Okla.	1,081	1,087	971	574	2/7	2/20,211	7	16,463
Texas	1/	1/	1/	1/	4	24,286	1/	1/
Utah	1/	1/	1/	1/	3	7,803	1/	1/
Wash.	1,268	1,567	1,234	1,340	8	21,117	4	15,161
Calif.	9,332	7,006	6,647	8,254	2/17	2/78,167	16	90,823
Other States	6,887	5,879	5,343	5,254	20	56,202	22	91,965
United States	75,346	76,353	63,113	63,508	2/186	2/889,931	162	921,108

1/ States not shown when less than 3 plants reported or individual plant operations might be disclosed.

2/ Revised.

Table 19. Miscellaneous dairy products: Production of specified products, by States, by months, 1970, and annual 1969 and 1970

State	1970							
	January	February	March	April	May	June	July	August
1,000 pounds								
<u>Evaporated and condensed, case goods, unsweetened, whole</u>								
Pa.	6,526	6,941	7,044	8,025	9,496	11,663	8,299	7,447
Ohio	15,325	13,634	15,384	16,738	22,199	21,603	16,616	13,837
Va.	1/	1/	1/	1/	1/	1/	1/	1/
Tenn.	5,595	5,832	7,126	7,436	12,186	12,478	9,466	11,498
Calif.	11,550	10,878	11,790	12,586	13,058	13,682	11,461	10,108
Other States 1/	62,264	56,044	65,609	66,316	76,712	82,533	71,837	66,975
United States	101,260	93,329	106,953	111,101	133,651	141,959	117,679	109,865
<u>Condensed whey</u>								
Ill.	1,767	1,596	1,921	2,069	2,237	2,420	2,294	2,211
Wis.	11,584	11,450	11,096	12,138	13,722	14,122	13,770	12,891
Minn.	2,233	2,262	2,671	2,594	2,378	2,123	2,010	1,949
Other States 1/	1,842	1,577	1,735	1,574	1,789	1,914	1,553	1,825
United States	17,426	16,885	17,423	18,375	20,126	20,579	19,627	18,876
<u>Dry whole milk</u>								
N. Y.	665	727	580	1,047	762	562	738	998
Ill.	487	465	512	546	580	567	510	455
Mich.	1/	1/	1/	1/	1/	1/	1/	1/
Wis.	600	362	239	348	330	447	487	327
Minn.	1,028	1,328	1,324	1,224	1,187	1,020	1,126	1,129
Nebr.	682	576	565	306	156	64	302	228
Calif.			76	117	51	1	43	2
Other States 1/	1,972	2,118	3,033	2,703	4,239	4,592	3,064	2,649
United States	5,434	5,576	6,329	6,291	7,305	7,253	6,270	5,788
<u>Dry buttermilk</u>								
N. Y.	137	112	156	170	112	273	136	56
Pa.	30	54	64	52	69	76	68	55
Ohio	122	139	119	92	104	111	79	52
Ill.	109	90	72	29	25	31	24	22
Mich.	104	169	124	163	192	188	179	203
Wis.	1,228	862	963	1,073	1,341	1,490	1,195	799
Minn.	1,729	1,875	2,284	2,052	1,861	1,760	1,305	970
Iowa	603	605	708	762	773	913	699	718
Mo.	1/	1/	1/	1/	1/	1/	1/	1/
N. Dak.	159	155	203	199	198	209	173	153
S. Dak.	205	203	232	318	322	220	145	140
Nebr.	111	117	171	178	193	181	155	140
Kans.	1/	1/	1/	1/	1/	1/	1/	1/
Okl.	115	127	239	228	222	156	161	114
Idaho	70	75	36	39	103	93	103	89
Calif.	106	84	136	175	197	105	75	170
Other States 1/	502	496	577	525	377	279	244	270
United States	5,330	5,163	6,084	6,055	6,089	6,085	4,741	3,951

See footnotes on page 31.

Table 19. Miscellaneous dairy products: Production of specified products, by States, by months, 1970 and annual 1969 and 1970 Con.

State	1970				Annual			
	September	October	November	December	1969	Plants:	1970	Plants:
	1,000 pounds				Number	1,000 pounds	Number	1,000 pounds
Evaporated and condensed case goods, unsweetened, whole								
Pa.	6,432	5,996	5,854	8,482	3	102,272	3	92,205
Ohio	9,618	9,363	8,400	11,839	5	200,947	5	174,556
Va.	1/	1/	1/	1/	3	55,648	1/	1/
Tenn.	9,100	7,319	5,813	7,946	3	81,228	3	101,795
Calif.	11,699	12,232	11,706	12,161	2/7	2/172,722	7	142,911
Other States 1/	55,507	50,851	46,121	56,089	2/27	2/870,937	28	756,858
United States	92,356	85,761	77,894	96,517	2/48	2/1,483,754	46	1,268,325
Condensed whey:								
Ill.	1,846	2,044	1,519	1,472	4	21,138	4	23,396
Wis.	12,021	12,189	12,828	13,742	14	86,541	18	151,553
Minn.	1,682	1,652	2,412	2,639	6	20,580	6	26,605
Other States 1/	1,892	1,575	1,094	1,468	2/9	2/31,473	7	19,838
United States	17,441	17,460	17,853	19,321	2/33	2/159,732	35	221,392
Dry whole milk:								
N. Y.	937	396	444	561	2/5	2/12,088	4	8,417
Ill.	584	668	606	673	3	5,994	3	6,653
Mich.	1/	1/	1/	1/	3	2,297	1/	1/
Wis.	221	169	282	97	7	5,843	5	3,909
Minn.	876	830	1,104	1,247	6	17,906	6	13,423
Nebr.	339	479	335	259	1/	1/	3	4,291
Calif.	1	28	2	10	1/	1/	3	331
Other States 1/	2,190	1,438	1,184	2,543	11	26,111	12	31,725
United States	5,148	4,008	3,957	5,390	2/35	2/70,239	36	68,749
Dry buttermilk:								
N. Y.	37	73	88	8	4	3,457	7	1,358
Pa.	40	53	31	34	3	94	3	626
Ohio	52	56	61	74	2/5	2/1,213	6	1,061
Ill.	30	50	71	74	1/	1/	3	627
Mich.	115	121	76	136	6	1,732	12	1,770
Wis.	780	836	810	1,082	21	13,178	21	12,459
Minn.	846	991	900	1,215	34	22,239	30	17,788
Iowa	675	692	552	589	21	8,515	15	8,289
Mo.	1/	1/	1/	1/	4	974	1/	1/
N. Dak.	130	123	138	150	8	2,152	7	1,990
S. Dak.	97	79	113	139	7	3,202	4	2,213
Nebr.	133	128	109	175	6	2,321	5	1,791
Kans.	1/	1/	1/	1/	4	714	1/	1/
Okla.	78	146	178	193	3	751	3	1,957
Idaho	75	80	67	72	1/	1/	3	902
Calif.	144	185	253	226	4	1,346	5	1,856
Other States 1/	310	437	417	401	11	4,623	15	4,835
United States	3,542	4,050	3,864	4,568	2/141	2/66,511	139	59,522

1/ States not shown when less than 3 plants reported or individual plant operations might be disclosed.

2/ Revised.

Table 20. Dry milk: Production of specified products, by States, by months, 1970, and annual 1969 and 1970

State	1970							
	January	February	March	April	May	June	July	August
1,000 pounds								
<u>Non-fat dry milk for human food. Spray process</u>								
Vt.	1,688	1,583	1,918	2,432	2,556	2,522	2,214	2,349
N. Y.	7,787	6,301	9,311	10,051	14,831	14,746	10,199	7,477
Pa.	3,379	2,727	3,317	3,516	4,074	5,017	3,699	2,761
Ohio	1,072	1,302	1,973	2,310	5,478	5,685	4,295	3,272
Ind.	749	831	899	1,135	1,466	1,413	856	756
Mich.	1,778	1,669	1,808	1,921	3,132	4,167	3,266	2,850
Wis.	12,169	12,785	15,856	17,425	23,561	25,081	20,210	14,806
Minn.	43,425	42,262	50,320	49,648	53,402	48,544	39,745	31,678
Iowa	9,733	9,835	11,628	12,217	15,231	14,781	13,848	11,319
Mo.	1/	1/	1/	1/	1/	1/	1/	1/
S. Dak.	3,230	3,180	3,709	3,593	4,281	4,449	3,545	3,375
Nebr.	2,002	2,107	2,684	2,666	3,167	3,098	2,803	2,682
Kans.	1/	1/	1/	1/	1/	1/	1/	1/
Va.	1/	1/	1/	1/	1/	1/	1/	1/
Tenn.	1/	1/	1/	1/	1/	1/	1/	1/
Miss.	1/	1/	1/	1/	1/	1/	1/	1/
Oklahoma	1/	1/	1/	1/	1/	1/	1/	1/
Texas	248	561	700	1,359	1,393	1,224	1,131	749
Idaho	2,731	2,444	2,698	3,216	3,879	3,596	3,986	3,722
Utah	585	622	651	878	999	1,289	1,017	632
Wash.	627	512	730	1,290	2,638	2,906	3,112	2,441
Calif.	4,882	5,367	6,985	9,748	11,885	12,706	13,260	13,284
Other States 1/	7,296	9,090	11,808	13,663	17,306	15,983	12,881	12,261
United States	103,381	103,178	126,995	137,068	169,279	167,207	140,067	116,414
<u>Non-fat dry milk for human food, Roller process</u>								
Pa.	38	28	41	21	70	102	44	26
Nebr.	312	279	371	417	627	683	287	337
Other States 1/	596	631	949	984	1,257	1,466	988	908
United States	946	938	1,361	1,422	1,954	2,251	1,319	1,271
<u>Dry skim milk for animal feed</u>								
Vt.	14	77	42	54	5	10	1	6
N. Y.	101	83	119	118	137	226	163	104
Pa.	2	2	3	3	5	26	3	3
Ohio	7	8	9	46	23	20	18	26
Mich.	19	20	31	81	46	50	40	36
Wis.	41	34	63	79	113	127	116	81
Minn.	253	262	311	290	284	283	419	206
Iowa	50	44	73	36	46	118	123	95
Mo.	1/	1/	1/	1/	1/	1/	1/	1/
S. Dak.	34	28	33	35	41	44	29	34
Nebr.	39	44	102	25	30	29	23	50
Okl.	1/	1/	1/	1/	1/	1/	1/	1/
Idaho	25	17	10	18	37	41	52	48
Wash.	12	25	18	13	20	14	36	16
Oreg.	33	30	43	36	38	48	49	47
Calif.	52	76	101	152	135	132	149	124
Other States 1/	101	100	124	131	174	180	169	92
United States	783	850	1,082	1,117	1,134	1,348	1,390	968

See footnotes on page 33.

Table 20. Dry milk: Production of specified products, by States, by months, 1970, and annual 1969 and 1970 Continued

State	1970				Annual			
	September	October	November	December	1969		1970	
					Plants	Production Number	Plants	Production Number
				1,000 pounds		1,000 pounds		1,000 pounds
<u>Non-fat dry milk for human food, Spray process</u>								
Vt.	2,102	2,393	1,416	1,732	3	23,534	3	24,905
N. Y.	5,534	4,936	4,203	6,111	1/	1/	16	101,477
Pa.	1,962	1,841	1,185	2,026	14	41,590	14	35,504
Ohio	1,398	1,464	1,074	1,931	9	26,632	9	31,254
Ind.	623	712	713	858	3	10,353	3	11,011
Mich.	2,118	1,506	940	1,819	6	28,445	5	26,974
Wis.	10,106	10,839	9,671	14,168	29	208,830	28	186,677
Minn.	26,604	29,347	29,985	37,128	47	512,096	44	482,088
Iowa	8,420	8,476	7,812	9,603	19	138,864	16	132,903
Mo.	1/	1/	1/	1/	4	11,545	1/	1/
S. Dak.	3,132	2,870	2,613	3,124	6	41,569	6	41,101
Nebr.	2,005	1,923	1,586	2,267	5	30,641	3	28,990
Kans.	1/	1/	1/	1/	4	19,994	1/	1/
Va.	1/	1/	1/	1/	3	4,444	1/	1/
Tenn.	1/	1/	1/	1/	6	13,396	1/	1/
Miss.	1/	1/	1/	1/	3	1,950	1/	1/
Oklahoma	1/	1/	1/	1/	3	11,727	1/	1/
Texas	610	536	372	951	1/	1/	3	9,834
Idaho	3,135	2,808	2,513	2,640	6	40,355	6	37,368
Utah	458	393	369	611	5	11,184	5	8,504
Wash.	1,876	1,510	1,402	1,692	6	10,303	6	20,736
Calif.	10,118	9,658	7,317	9,610	14	71,026	14	114,820
Other States 1/	6,992	7,699	7,356	11,879	2/18	2/172,541	22	134,214
United States	87,193	88,901	80,527	108,150	2/213	2/1,431,019	203	1,428,360
<u>Non-fat dry milk for human food, Roller process</u>								
Pa.	29	10	28	22	4	827	3	459
Nebr.	217	119	167	193	3	6,754	3	4,009
Other States 1/	734	521	395	544	2/13	2/13,678	11	9,973
United States	980	650	590	759	2/20	2/21,259	17	14,441
<u>Dry skim milk for animal feed</u>								
Vt.	4	14	5	9	1/	1/	3	241
N. Y.	91	58	77	52	10	1,215	11	1,329
Pa.	2	18	5	2	6	2/52	5	74
Ohio	12	12	7	8	2/3	2/174	4	196
Mich.	27	22	17	17	3	345	3	406
Wis.	62	41	45	58	21	2,444	16	860
Minn.	139	264	201	183	2/36	2/4,117	36	3,095
Iowa	84	82	47	76	17	1,124	14	874
Mo.	1/	1/	1/	1/	4	197	1/	1/
S. Dak.	30	25	20	21	4	555	3	374
Nebr.	22	21	24	31	6	418	6	440
Oklahoma	1/	1/	1/	1/	3	211	1/	1/
Idaho	31	25	50	39	6	342	6	393
Wash.	13	98	37	12	3	283	3	314
Oreg.	40	17	61	41	3	527	3	483
Calif.	114	94	107	108	13	849	14	1,344
Other States 1/	151	92	126	161	15	1,555	15	1,601
United States	822	883	829	818	2/153	2/14,408	142	12,024

1/ States not shown when less than 3 plants reported or individual plant operations might be disclosed.

2/ Revised.

Table 21. Miscellaneous dairy products: Production of specified products, by States, by months, 1970, and annual, 1969 and 1970

State	1970							
	January	February	March	April	May	June	July	August
1,000 pounds								
<u>Dry whey: For human food</u>								
Ill.	1,473	1,662	1,797	1,478	1,644	1,615	1,772	1,463
Wis.	9,167	7,928	7,919	7,895	9,626	10,933	10,464	9,331
Minn.	5,209	4,603	5,140	5,115	4,651	4,334	4,280	3,837
Other States 1/	7,542	7,353	7,856	9,771	10,999	10,890	10,515	9,181
<u>United States</u>	23,391	21,546	22,712	24,259	26,920	27,772	27,031	23,812
:								
<u>Dry whey: For animal feed</u>								
Ill.	1,045	886	984	1,069	1,276	1,157	869	1,160
Wis.	14,332	14,312	16,782	17,043	16,877	15,872	15,026	14,873
Minn.	1,118	1,212	1,212	1,317	1,751	1,446	1,315	1,520
Other States 1/	8,474	8,334	8,822	8,768	10,553	11,215	11,194	11,636
<u>United States</u>	24,969	24,744	27,800	28,197	30,457	29,690	28,404	29,189
:								
<u>Dry whey: Total</u>								
N. Y.	2,491	2,208	2,358	2,187	2,392	2,454	2,469	2,277
Ohio	1/	1/	1/	1/	1/	1/	1/	1/
Ill.	2,518	2,548	2,781	2,547	2,920	2,772	2,641	2,623
Mich.	150	119	117	107	99	97	108	81
Wis.	23,499	22,240	24,701	24,938	26,503	26,805	25,490	24,204
Minn.	6,327	5,815	6,352	6,432	6,402	5,780	5,595	5,357
Iowa	2,806	2,648	2,707	2,785	2,850	2,710	2,704	2,812
Mo.	3,503	3,229	2,999	3,522	4,750	5,031	5,140	4,305
Nebr.	596	598	790	757	868	1,068	972	972
Ky.	1,659	1,465	1,812	2,163	2,722	2,664	2,593	2,462
Utah	815	784	877	891	970	907	973	1,115
Other States 1/	3,996	4,636	5,018	6,127	6,901	7,174	6,750	6,793
<u>United States</u>	48,360	46,290	50,512	52,456	57,377	57,462	55,435	53,001
:								
<u>Malted milk powder</u>								
Wis. only	1,356	1,558	1,903	1,819	1,943	1,863	1,315	1,461
:								
<u>Milk sugar, crude</u>								
Wis.	5,942	6,150	6,796	5,458	5,127	4,520	3,605	3,945
Other States 1/	2,518	2,766	3,374	3,174	3,542	2,959	3,024	2,860
<u>United States</u>	8,460	8,916	10,170	8,632	8,669	7,479	6,629	6,805

See footnotes on page 35.

Table 21. Miscellaneous dairy products: Production of specified products, by States, by months, 1970, and annual 1969 and 1970 Continued

State	1970				Annual					
	September		October		November		December		1969	1970
	Plants	Production	Plants	Production	Number	1,000 pounds	Number	1,000 pounds		
1,000 pounds										
<u>Dry whey: For human food</u>										
Ill.	1,408	1,240	1,509	1,217	3	24,069	3	18,278		
Wis.	9,711	10,250	9,990	11,076	12	74,070	19	114,290		
Minn.	3,770	4,060	4,054	4,335	7	47,486	7	53,388		
Other States 1/	8,371	8,670	8,327	8,428	20	2/85,621	24	107,903		
United States	23,260	24,220	23,880	25,056	42	2/231,246	53	293,859		
<u>Dry whey: For animal feed</u>										
Ill.	870	922	863	905	5	5,335	6	12,006		
Wis.	13,690	12,911	13,285	13,688	22	170,132	23	178,691		
Minn.	1,147	1,666	1,029	1,961	5	13,256	8	16,694		
Other States 1/	10,872	10,367	9,336	9,610	2/49	2/96,505	54	119,181		
United States	26,579	25,866	24,513	26,164	2/81	2/285,228	91	326,572		
<u>Dry whey: Total</u>										
N. Y.	2,417	2,626	2,560	2,414	3	2/24,536	3	28,853		
Ohio	1/	1/	1/	1/	4	3,649	1/	1/		
Ill.	2,278	2,162	2,372	2,122	7	29,404	8	30,284		
Mich.	174	83	84	72	3	1,324	3	1,291		
Wis.	23,401	23,161	23,275	24,764	25	244,202	33	292,981		
Minn.	4,917	5,726	5,083	6,296	12	60,742	11	70,082		
Iowa	2,857	2,971	3,013	3,204	14	29,122	13	34,067		
Mo.	3,748	3,229	2,800	2,898	2/12	2/33,924	11	45,154		
Nebr.	1,063	1,165	1,175	1,209	3	4,028	6	11,233		
Ky.	2,151	1,804	1,446	1,285	5	22,082	5	24,226		
Utah	1,156	1,281	1,186	1,235			3	12,190		
Other States 1/	5,677	5,878	5,399	5,721	2/19	2/63,461	20	70,070		
United States	49,839	50,086	48,393	51,220	2/107	2/516,474	116	620,431		
<u>Malted milk powder</u>										
Wis. only	1,633	1,636	1,334	1,547	3	18,636	3	19,368		
<u>Milk sugar, crude</u>								*		
Wis.	4,236	5,393	5,105	5,966	6	61,563	7	62,243		
Other States 1/	2,814	2,656	2,926	2,783	5	31,378	6	35,396		
United States	7,050	8,049	8,031	8,749	11	92,941	13	97,639		

1/ States not shown when less than 3 plants reported or individual plant operations might be disclosed.

2/ Revised.

Table 22. Ice cream, total: Production, by States, by months, 1970, and annual 1969 and 1970

State	1970							
	January	February	March	April	May	June	July	August
1,000 gallons								
Maine	240	241	299	333	344	393	425	437
N. H.	83	75	92	104	129	174	218	201
Vt.	5	5	8	11	13	20	16	20
Mass.	2,710	2,879	3,546	3,299	3,892	3,603	3,716	4,204
R. I.	109	121	124	119	158	122	147	144
Conn.	829	1,088	1,090	1,109	1,393	1,276	1,245	1,521
N. Y.	4,482	4,686	5,890	5,682	6,406	7,819	7,626	7,528
N. J.	1,217	1,375	1,623	1,544	1,758	1,910	2,094	2,066
Pa.	5,153	5,395	6,161	5,910	7,131	7,603	7,587	7,521
Ohio	3,157	3,508	3,944	3,936	4,031	4,524	4,641	4,374
Ind.	1,794	1,935	2,070	2,002	2,273	2,684	2,691	2,395
Ill.	2,888	3,009	3,276	3,338	3,681	3,258	4,143	3,969
Mich.	2,637	2,764	2,940	3,058	3,230	3,648	3,835	3,625
Wis.	1,415	1,483	1,778	1,641	1,751	2,256	2,484	2,084
Minn.	2,052	2,010	2,245	2,208	2,301	2,851	3,083	2,705
Iowa	589	590	696	635	614	813	878	724
Mo.	1,110	1,184	1,312	1,207	1,443	1,664	1,726	1,601
N. Dak.	211	217	255	241	271	333	364	321
S. Dak.	20	26	27	27	22	33	34	33
Nebr.	693	723	853	774	745	994	960	927
Kans.	487	588	618	612	678	653	778	735
D. C.	337	323	382	323	230	267	261	287
Del.	100	104	107	121	109	14	17	16
Md.	1,151	1,120	1,253	1,445	1,562	1,756	1,895	1,754
Va.	715	680	828	847	908	951	1,034	908
W. Va.	216	235	315	306	221	242	237	197
N. C.	1,147	1,195	1,439	1,548	1,786	1,977	2,070	1,704
S. C.	415	368	497	478	512	514	569	506
Ga.	596	609	715	664	727	803	879	706
Fla.	1,651	1,602	2,064	1,975	1,849	1,992	2,066	1,894
Ky.	262	318	377	462	519	577	601	560
Tenn.	1,002	1,053	1,301	1,393	1,535	1,646	1,667	1,526
Ala.	647	636	772	775	914	1,013	1,050	908
Miss.	237	276	313	374	354	486	416	310
Ark.	162	187	225	240	277	329	345	309
La.	631	698	805	819	938	945	986	950
Okla.	374	381	439	482	529	565	626	544
Texas	2,112	2,178	2,370	2,438	2,644	2,796	3,048	2,840
Mont.	120	131	147	154	162	205	218	211
Idaho	226	245	293	240	272	385	318	322
Colo.	490	513	554	648	566	625	734	668
N. Mex.	81	98	123	105	133	140	170	146
Ariz.	357	383	448	431	418	448	495	435
Utah	335	321	388	359	370	455	463	429
Nev.	66	59	66	65	70	78	89	84
Wash.	964	949	1,173	1,275	1,215	1,440	1,508	1,390
Oreg.	462	495	611	571	586	737	769	593
Calif.	5,325	5,138	6,289	6,100	6,202	6,815	7,193	6,584
Alaska & Hawaii	3/ 229	213	245	239	260	289	321	311
United States	52,291	54,410	63,386	62,667	68,132	75,121	78,736	74,227

See footnotes on page 37.

Table 22. Ice cream, total: Production, by States, by months, 1970, and annual 1969 and 1970 Con.

State	1970				Annual Production	
	September	October	November	December	1969	1970
	:	:	:	:	:	:
1,000 gallons						
Maine	: 357	270	305	291	4,246	3,935
N. H.	: 128	108	87	96	1,471	1,495
Vt.	: 10	8	5	7	165	128
Mass.	: 3,466	3,453	3,074	3,102	39,609	40,944
R. I.	: 110	109	96	79	1,933	1,438
Conn.	: 1,250	982	1,122	937	14,750	13,842
N. Y.	: 6,606	5,257	4,453	4,881	72,379	71,316
N. J.	: 1,736	1,411	1,331	1,217	18,686	19,282
Pa.	: 7,020	6,288	5,412	5,529	74,174	76,710
Ohio	: 4,241	3,865	3,142	3,228	47,964	46,591
Ind.	: 2,555	2,100	1,863	1,800	24,340	26,162
Ill.	: 3,612	3,187	2,773	2,849	40,772	39,983
Mich.	: 3,345	2,955	2,400	2,609	36,027	37,046
Wis.	: 1,885	1,670	1,396	1,568	21,330	21,411
Minn.	: 2,465	2,254	1,880	2,206	27,163	28,260
Iowa	: 704	631	546	584	8,662	8,004
Mo.	: 1,524	1,382	1,197	1,192	18,760	16,542
N. Dak.	: 272	263	229	232	3,064	3,209
S. Dak.	: 33	26	30	29	1,034	340
Nebr.	: 893	704	614	714	10,202	9,594
Kans.	: 668	581	474	569	6,904	7,441
D. C.	: 302	251	214	240	7,723	3,417
Del.	: 11	7	6	5	2,295	617
Md.	: 1,630	1,354	1,086	1,262	14,785	17,268
Va.	: 931	772	709	670	10,359	9,953
W. Va.	: 213	180	129	145	3,751	2,636
N. C.	: 1,762	1,651	1,161	1,106	18,920	18,546
S. C.	: 512	580	458	438	5,466	5,847
Ga.	: 644	552	475	526	9,158	7,896
Fla.	: 1,822	1,638	1,318	1,548	21,302	21,419
Ky.	: 528	407	317	313	5,739	5,241
Tenn.	: 1,473	1,241	982	1,008	15,105	15,827
Ala.	: 986	752	560	599	2/ 8,730	9,612
Miss.	: 360	240	209	224	3,733	3,799
Ark.	: 300	237	205	203	2,894	3,019
La.	: 920	763	572	668	9,646	9,695
Okla.	: 516	446	358	370	6,234	5,630
Texas	: 2,712	2,266	1,892	1,906	28,978	29,202
Mont.	: 159	133	121	114	1,854	1,875
Idaho	: 293	223	234	243	3,507	3,294
Colo.	: 657	589	407	538	6,933	6,989
N. Mex.	: 147	116	89	100	1,299	1,448
Ariz.	: 459	378	330	362	4,688	4,944
Utah	: 412	323	313	288	4,462	4,456
Nev.	: 73	64	66	55	820	835
Wash.	: 1,204	1,140	999	935	13,923	14,192
Oreg.	: 548	429	431	385	6,574	6,617
Calif.	: 5,647	5,907	4,773	5,114	70,034	71,987
Alaska & Hawaii 3/	: 267	255	223	230	2/2,954	3,082
United States	: 69,268	60,398	51,066	53,314	2/765,501	763,016

1/ States not shown when less than 3 plants reported or individual plant operations might be disclosed.
 2/ Revised.

3/ Includes Wyoming to avoid disclosure of individual operations.

Table 23. Ice cream, hard: Production, by States, by months, 1970, and annual 1969 and 1970

State	1970							
	January	February	March	April	May	June	July	August
	1,000 gallons							
Maine	: 238	237	295	325	334	383	407	428
N. H.	: 82	74	90	101	116	159	203	186
Vt.	: 5	5	8	9	10	17	13	17
Mass.	: 2,660	2,829	3,496	3,229	3,812	3,493	3,574	4,074
R. I.	: 109	121	124	119	158	122	147	144
Conn.	: 757	979	945	946	1,212	1,059	1,027	1,303
N. Y.	: 4,356	4,560	5,638	5,178	5,588	6,812	6,493	6,458
N. J.	: 1,140	1,247	1,469	1,339	1,528	1,577	1,685	1,657
Pa.	: 4,991	5,125	5,782	5,423	6,590	6,846	6,775	6,656
Ohio	: 3,154	3,505	3,937	3,925	4,017	4,509	4,625	4,359
Ind.	: 1,679	1,801	1,936	1,848	2,100	2,473	2,479	2,203
Ill.	: 2,880	3,001	3,267	3,328	3,670	3,245	4,132	3,959
Mich.	: 2,631	2,758	2,934	3,045	3,218	3,629	3,823	3,613
Wis.	: 1,406	1,474	1,768	1,628	1,736	2,240	2,468	2,069
Minn.	: 2,019	1,996	2,231	2,194	2,287	2,834	3,062	2,684
Iowa	: 588	589	693	632	610	811	875	721
Mo.	: 1,098	1,172	1,298	1,191	1,426	1,647	1,703	1,578
N. Dak.	: 211	217	255	241	271	333	364	321
S. Dak.	: 20	23	23	24	22	27	24	25
Nebr.	: 693	723	853	774	745	994	960	927
Kans.	: 487	588	618	612	678	653	778	735
D. C.	: 334	319	376	317	220	256	251	278
Del.	: 98	101	104	117	103	4	5	6
Md.	: 1,142	1,112	1,244	1,434	1,545	1,730	1,864	1,728
Va.	: 666	645	793	791	851	880	935	830
W. Va.	: 216	235	314	305	220	241	236	196
N. C.	: 1,141	1,185	1,423	1,522	1,744	1,922	2,022	1,665
S. C.	: 415	368	497	478	512	514	569	506
Ga.	: 596	609	715	664	727	803	879	706
Fla.	: 1,633	1,584	2,040	1,946	1,820	1,957	2,022	1,862
Ky.	: 250	294	353	383	440	498	528	487
Tenn.	: 1,000	1,050	1,295	1,389	1,525	1,636	1,659	1,516
Ala.	: 647	636	772	775	914	1,013	1,050	908
Miss.	: 228	266	302	360	341	468	400	299
Ark.	: 159	185	223	236	272	322	338	305
La.	: 631	698	805	819	938	945	986	950
Okla.	: 355	361	405	438	471	506	563	486
Texas	: 2,087	2,148	2,336	2,404	2,606	2,750	2,997	2,798
Mont.	: 118	128	139	137	139	180	192	186
Idaho	: 226	245	293	240	272	385	318	322
Colo.	: 490	513	554	648	566	625	734	668
N. Mex.	: 81	98	123	105	133	140	170	146
Ariz.	: 357	383	448	431	418	448	495	435
Utah	: 335	321	388	359	370	455	463	429
Nev.	: 64	58	64	63	68	76	86	81
Wash.	: 908	888	1,090	1,185	1,115	1,294	1,326	1,244
Oreg.	: 461	487	600	560	575	715	715	581
Calif.	: 5,325	5,138	6,289	6,100	6,202	6,815	7,193	6,584
Alaska & Hawaii ^{3/} :	229	211	242	227	246	276	296	285
United States	: 51,396	53,290	61,887	60,544	65,481	71,717	74,909	70,604

See footnotes on page 39.

Table 23. Ice cream, hard: Production, by States, by months, 1970, and annual 1969 and 1970 Con.

State	1970				Annual				
	September		October	November	1969		1970		
	Plants	Production	Plants	Production	Number	1,000 gallons	Number	1,000 gallons	
1,000 gallons									
Maine	:	349	264	301	288	13	4,040	13	3,849
N. H.	:	125	106	85	95	16	1,369	15	1,422
Vt.	:	9	8	5	7	6	137	5	113
Mass.	:	3,366	3,363	3,004	3,042	66	38,844	60	39,942
R. I.	:	110	109	96	79	9	1,595	9	1,438
Conn.	:	1,069	873	1,013	846	38	12,664	36	12,029
N. Y.	:	5,976	4,942	4,264	4,755	125	67,165	120	65,020
N. J.	:	1,506	1,257	1,203	1,115	36	15,968	33	16,723
Pa.	:	6,533	5,964	5,142	5,475	118	68,647	111	71,302
Ohio	:	4,232	3,860	3,138	3,225	87	47,814	80	46,486
Ind.	:	2,363	1,946	1,729	1,685	47	22,500	44	24,242
Ill.	:	3,603	3,179	2,765	2,841	71	40,427	65	39,870
Mich.	:	3,339	2,949	2,394	2,603	67	35,887	63	36,936
Wis.	:	1,873	1,658	1,385	1,558	79	21,045	74	21,263
Minn.	:	2,448	2,239	1,868	2,191	32	26,987	29	28,053
Iowa	:	701	628	543	583	48	8,646	40	7,974
Mo.	:	1,508	1,365	1,183	1,178	38	18,628	40	16,347
N. Dak.	:	272	263	229	232	20	3,056	20	3,209
S. Dak.	:	24	19	21	20	8	1,034	6	272
Nebr.	:	893	704	614	714	20	10,097	18	9,594
Kans.	:	668	581	474	569	37	6,904	32	7,441
D. C.	:	294	246	210	236	7	7,384	6	3,337
Del.	:	3	2	2	2	4	2,273	4	547
Md.	:	1,609	1,341	1,077	1,254	18	14,519	16	17,080
Va.	:	867	715	660	614	19	9,657	19	9,247
W. Va.	:	212	179	129	145	8	3,664	8	2,628
N. C.	:	1,736	1,629	1,142	1,093	29	18,398	26	18,224
S. C.	:	512	580	458	438	6	5,370	6	5,847
Ga.	:	644	552	475	526	15	9,152	14	7,896
Fla.	:	1,802	1,620	1,306	1,533	23	21,237	21	21,125
Ky.	:	461	351	280	307	16	5,266	14	4,632
Tenn.	:	1,462	1,235	977	1,003	28	15,042	27	15,747
Ala.	:	986	752	560	599	18	2/ 8,730	18	9,612
Miss.	:	346	231	201	216	10	3,699	11	3,658
Ark.	:	296	235	204	200	10	2,783	10	2,975
La.	:	920	763	572	668	29	9,646	29	9,695
Okla.	:	463	412	334	351	23	5,774	21	5,145
Texas	:	2,674	2,228	1,867	1,885	67	28,151	62	28,780
Mont.	:	142	125	115	109	31	1,736	28	1,710
Idaho	:	293	223	234	243	17	3,471	15	3,294
Colo.	:	657	589	407	538	33	6,933	30	6,989
N. Mex.	:	147	116	89	100	6	1,293	5	1,448
Ariz.	:	459	378	330	362	10	4,688	9	4,944
Utah	:	412	323	313	288	13	4,462	13	4,456
Nev.	:	71	62	64	54	3	791	3	811
Wash.	:	1,101	1,045	910	871	33	12,700	27	12,977
Oreg.	:	546	428	430	384	22	6,140	24	6,482
Calif.	:	6,547	5,907	4,773	5,114	249	70,034	236	71,987
Alaska & Hawaii 3/:	263	253	223	227	2/12	2/ 2,853	12	2,978	
United States	:	66,892	58,797	49,798	52,461	1,739	2/ 739,300	1,627	737,776

1/States not shown when less than 3 plants reported or individual plant operations might be disclosed.

2/Revised.

3/Includes Wyoming to avoid disclosure of individual operations.

Table 24. Ice milk: Production, by States, by months, 1970, and annual 1969 and 1970 1/

State	1970							
	January	February	March	April	May	June	July	August
	1,000 gallons							
Maine	21	27	69	103	133	168	196	182
N. H.	4	8	6	8	15	21	22	23
Vt.	6	6	10	30	39	55	71	56
Mass.	690	476	797	987	1,236	1,509	1,823	1,699
R. I.	6	12	19	19	21	31	39	27
Conn.	51	78	93	124	186	186	244	265
N. Y.	322	339	641	878	1,322	1,534	1,648	1,518
N. J.	274	239	301	384	521	571	647	570
Pa.	803	828	1,081	1,254	1,606	1,746	1,810	1,845
Ohio	857	853	1,443	2,016	2,400	2,585	2,799	2,601
Ind.	510	512	587	694	833	941	901	844
Ill.	525	714	923	1,124	1,507	1,551	1,776	1,664
Mich.	557	575	819	1,150	1,266	1,514	1,626	1,409
Wis.	269	333	432	540	662	844	931	731
Minn.	228	290	461	550	709	850	922	908
Iowa 2/	167	212	299	360	505	569	570	484
Mo.	614	713	872	985	1,216	1,494	1,440	1,366
N. Dak.	42	48	65	79	104	150	158	144
S. Dak.	19	35	52	86	109	127	134	127
Nebr.	236	250	334	384	465	516	547	507
Kans. 3/	247	305	416	464	518	609	651	604
D. C.	73	70	86	99	77	118	116	133
Del.	23	36	42	57	69	80	92	80
Md.	250	292	361	432	505	618	668	590
Va. 4/	184	220	258	305	367	413	424	439
W. Va.	69	96	148	201	261	264	298	253
N. C. 5/	616	712	806	900	1,138	1,339	1,402	1,234
S. C.	368	377	513	543	530	588	696	510
Ga.	496	526	616	691	767	864	913	772
Fla.	835	905	1,056	1,134	1,193	1,290	1,411	1,266
Ky.	159	200	277	360	444	478	526	480
Tenn.	508	611	800	788	931	1,073	1,080	1,061
Ala.	515	559	727	756	935	183	1,073	916
Miss. 5/	188	184	239	290	326	335	333	293
Ark.	106	140	193	227	302	339	338	327
La.	275	272	337	414	464	568	518	513
Oklahoma.	252	272	313	350	438	520	519	462
Texas	420	487	487	574	624	726	715	854
Mont. 6/	35	37	67	71	96	123	135	114
Idaho	64	76	103	100	131	169	171	174
Colo.	215	229	283	325	430	464	573	482
N. Mex.	37	40	60	57	81	86	88	89
Ariz.	180	186	204	199	235	253	255	246
Utah	150	174	203	219	272	321	340	329
Nev.	47	37	56	51	65	88	97	98
Wash.	480	537	608	646	783	863	879	750
Oreg. 7/	286	296	380	353	491	527	550	506
Calif. 8/	1,898	2,040	2,424	2,464	2,678	2,837	3,115	2,921
Alaska & Hawaii 10/	105	96	123	118	155	179	192	188
United States	15,282	16,560	21,490	24,943	30,211	34,077	36,472	33,654

1/ Includes freezer-made milkshake. 2/ Includes substandard frozen desserts. 3/ "Ice milk" for Kansas refers to the product elsewhere usually known by that name and does not conform to the Kansas Dairy Law which, for taxation purposes, states that all frozen products containing less than 10 percent (Continued on page 41)

Table 24. Ice milk: Production, by States, by months, 1970, and annual 1969 and 1970 1/ Continued

State	1970				Annual Production	
	September	October	November	December	1969	1970
	1,000 gallons					
Maine	82	53	32	31	1,124	1,097
N. H.	15	9	6	4	442	141
Vt.	24	14	12	6	101	329
Mass.	975	912	775	661	3,999	12,540
R. I.	20	28	11	9	327	242
Conn.	152	123	143	69	2,454	1,714
N. Y.	1,028	557	349	383	10,781	10,519
N. J.	446	413	306	234	1,908	4,906
Pa.	1,642	1,171	805	928	13,042	15,519
Ohio	1,835	1,261	825	843	19,742	20,318
Ind.	851	668	588	515	7,949	8,444
Ill.	1,156	753	512	544	12,651	12,749
Mich.	1,003	707	500	542	11,184	11,668
Wis.	521	355	321	268	5,826	6,207
Minn.	557	376	264	270	5,828	6,385
Iowa 2/	346	247	214	149	3,831	4,122
Mo.	1,054	826	648	540	11,792	11,768
N. Dak.	116	88	63	49	1,134	1,106
S. Dak.	67	44	26	26	680	852
Nebr.	398	300	227	224	4,871	4,388
Kans. 3/	469	358	193	264	4,992	5,098
D. C.	84	62	50	50	896	1,018
Del.	62	49	31	25	642	646
Md.	454	428	303	312	4,832	5,213
Va. 4/	338	286	213	207	4,205	3,654
W. Va.	197	153	91	70	2,079	2,101
N. C. 5/	1,097	820	624	619	11,842	11,307
S. C.	624	594	378	358	5,740	6,079
Ga.	693	535	422	418	7,803	7,713
Fla.	1,152	1,059	845	897	14,470	13,043
Ky.	393	282	208	208	3,608	4,015
Tenn.	1,047	781	502	597	10,168	9,829
Ala.	814	654	467	500	2/8,406	8,899
Miss. 5/	283	205	155	153	3,029	2,984
Ark.	302	209	144	171	3,008	2,798
La.	424	334	271	281	4,793	4,671
Okla.	385	303	258	269	4,440	4,341
Texas	576	493	427	431	6,642	6,814
Mont. 6/	66	59	47	39	867	889
Idaho	118	92	87	72	1,344	1,357
Colo.	379	257	252	262	3,566	4,151
N. Mex.	65	46	41	36	1,006	726
Ariz.	234	202	178	176	2,240	2,548
Utah	229	197	160	142	2,580	2,736
Nev.	63	51	41	36	694	730
Wash.	670	572	441	430	7,432	7,659
Oreg. 7/	380	335	278	376	4,082	4,758
Calif. 8/	2,706	2,379	1,858	1,824	28,751	29,144
Alaska & Hawaii 10/	144	126	93	97	9/1,672	1,616
United States	26,736	20,826	15,685	15,615	9/275,495	291,551

milkfat are "ice milk." 4/ State law also permits use of term "milk sherbet" for this product.

5/ Includes milkshake base. 6/ Includes lowfat ice cream. 7/ Includes substandard ice cream.

8/ Includes freezer-made "milk-drink". 9/ Revised. 10/ Includes Wyoming to avoid disclosure of individual operations.

Table 25. Milk sherbet: Production, by States, by months, 1970, and annual 1969 and 1970

State	1970							
	January	February	March	April	May	June	July	August
1,000 gallons								
Maine	10	11	18	24	42	43	52	65
N. H.	3	2	8	3	8	7	11	10
Vt.	1/	1/	1/	1/	1/	1/	1/	1/
Mass.	122	160	210	214	338	349	285	333
R. I.	4	1	3	2	5	9	6	6
Conn.	20	34	43	44	67	71	74	96
N. Y.	117	139	190	203	243	348	326	296
N. J.	33	28	40	41	63	63	76	78
Pa.	183	235	245	293	325	396	402	374
Ohio	169	154	216	270	352	372	444	356
Ind.	88	98	124	120	167	202	191	159
Ill.	195	203	250	287	335	263	369	326
Mich.	169	150	193	198	305	311	300	291
Wis.	47	51	74	68	73	105	115	87
Minn.	70	77	81	74	87	114	122	97
Iowa	21	35	36	37	35	58	63	58
Mo.	79	77	89	101	121	176	174	150
N. Dak.	9	9	12	12	16	18	18	14
S. Dak.	1	1				1	1	1
Nebr.	36	40	45	43	54	71	85	56
Kans.	28	29	43	41	38	54	52	46
D. C.	12	11	12	16	23	22	25	23
Md.	76	78	85	101	127	166	164	131
Va.	27	26	32	32	51	68	92	51
W. Va.	13	14	21	22	17	14	18	10
N. C.	79	80	132	135	189	191	224	175
S. C.	42	32	84	44	60	92	71	96
Ga.	31	41	45	50	58	70	73	63
Fla.	95	95	126	129	121	149	164	166
Ky.	21	23	28	34	52	60	58	47
Tenn.	76	85	118	120	156	176	189	169
Ala.	52	47	69	75	109	109	108	104
Miss.	17	14	18	23	25	33	33	22
Ark.	11	13	14	16	17	21	29	25
La.	35	28	45	61	54	61	81	52
Okla.	25	28	33	37	44	47	58	47
Texas	171	196	215	233	276	324	322	276
Mont.	8	7	11	11	11	12	15	14
Idaho	12	9	14	13	21	20	20	15
Colo.	40	39	38	47	40	55	58	56
N. Mex.	4	6	7	7	7	11	10	10
Ariz.	21	22	29	31	38	34	41	38
Utah	25	25	39	40	37	59	57	50
Nev.	4	3	5	5	6	6	8	6
Wash.	94	76	119	116	94	134	140	121
Oreg.	39	35	37	47	46	53	49	42
Calif.	436	398	533	539	559	623	631	601
Alaska & Hawaii	25	20	21	24	25	24	26	26
Other States 1/	11	19	18	14	12	8	10	9
United States	2,906	3,004	3,868	4,097	4,949	5,673	5,940	5,344

See footnotes on page 43.

Table 25. Milk sherbet: Production, by States, by months, 1970, and annual 1969 and 1970 Con.

State	1970				Annual Production	
	September	October	November	December	1969	1970
1,000 gallons						
Maine	30	17	14	11	281	337
N. H.	4	4	3	3	103	66
Vt.	1/	1/	1/	1/	7	1/
Mass.	186	162	160	126	2,536	2,645
R. I.	7	5	3	3	69	54
Conn.	46	26	32	33	1,245	586
N. Y.	231	153	132	114	2,747	2,492
N. J.	41	30	35	27	523	555
Pa.	312	259	196	227	3,893	3,447
Ohio	255	208	217	168	2,992	3,181
Ind.	114	105	74	87	2/1,985	1,529
Ill.	257	210	211	217	3,153	3,123
Mich.	169	183	149	135	2,419	2,553
Wis.	73	58	48	48	932	847
Minn.	74	69	72	81	1,108	1,018
Iowa	32	33	22	27	533	457
Mo.	124	100	78	83	1,334	1,352
N. Dak.	11	12	8	11	138	150
S. Dak.	1	1	1	1	23	9
Nebr.	34	34	21	26	655	545
Kans.	50	34	29	25	396	469
D. C.	19	11	12	11	398	197
Md.	116	84	46	106	1,121	1,280
Va.	39	33	19	29	463	499
W. Va.	10	12	8	8	273	167
N. C.	120	128	70	70	1,293	1,593
S. C.	66	58	50	43	696	738
Ga.	57	33	45	42	708	608
Fla.	130	99	93	78	1,771	1,445
Ky.	40	27	20	28	321	438
Tenn.	133	116	63	64	1,461	1,465
Ala.	83	59	44	34	2/998	893
Miss.	25	17	11	13	258	251
Ark.	25	19	12	18	275	220
La.	52	37	34	22	642	562
Okla.	42	30	28	26	454	445
Texas	255	204	142	163	2,953	2,777
Mont.	8	9	8	9	127	123
Idaho	17	12	13	12	243	178
Colo.	50	36	30	38	473	527
N. Mex.	7	5	4	6	1/	84
Ariz.	32	28	16	23	366	353
Utah	38	32	25	22	387	449
Nev.	6	7	4	4	62	64
Wash.	82	92	73	80	1,161	1,221
Oreg.	35	23	28	22	422	456
Calif.	541	451	354	373	6,130	6,039
Alaska & Hawaii	23	24	20	20	270	278
Other States 1/	4	2	4	5	2/401	116
United States	4,106	3,391	2,781	2,822	2/51,199	48,881

1/ States not shown when less than 3 plants reported or individual plant operations might be disclosed.
 2/ Revised.

Table 26. Frozen dairy products and mix: Production of specified products, by States, by months, 1970, and annual 1969 and 1970

State	1970							
	January	February	March	April	May	June	July	August
1,000 gallons								
<u>Other frozen dairy products</u>								
Conn.	16	35	54	57	108	141	132	156
N. Y.	56	64	100	126	168	215	184	179
Pa.	3	7	10	18	35	37	33	22
Ohio	23	40	60	69	125	134	116	110
Ind.	1/	1/	1/	1/	1/	1/	1/	1/
Ill.	19	39	40	25	29	37	43	32
Mo.	9	26	29	48	57	59	104	52
Kans.	6	4	6	12	9	15	26	20
Ga.	9	7	11	11	14	11	15	12
Tenn.	6	10	10	13	12	10	12	9
Miss.	1	3	2	2	1	1	1	
Ark.	4	4	5	6	6	8	8	8
La.	8	8	9	16	16	26	21	11
Okla.	7	7	13	7	15	16	18	12
Texas	26	25	29	43	55	59	62	62
Idaho	1/	1/	1/	1/	1/	1/	1/	1/
Colo.	1/	1/	1/	1/	1/	1/	1/	1/
Oreg.	18	27	23	36	42	28	59	35
Other States 1/	48	49	85	89	137	155	155	120
United States	259	355	486	578	829	952	989	840
<u>"Mellorine-type" frozen desserts</u>								
Ind. 3/	40	46	63	69	84	96	90	83
Ill.	259	287	303	365	382	412	462	421
Mo.	127	132	165	196	200	262	299	278
Ala.	7	4	9	6	4	7	5	4
Ark.	75	96	129	142	129	159	152	127
La.	69	94	99	95	102	86	103	90
Okla.	132	141	153	171	183	212	239	216
Texas	1,418	1,630	1,859	2,024	2,209	2,363	2,434	2,348
Mont.	1/	1/	1/	1/	1/	1/	1/	1/
Ariz.	57	67	71	77	88	97	95	78
Oreg.	87	91	102	90	76	132	106	104
Calif.	898	956	1,214	1,128	1,200	1,251	1,426	1,266
Other States 1/	171	183	198	243	197	227	251	212
United States	3,340	3,727	4,365	4,606	4,854	5,304	5,662	5,227
<u>"Mellorine-type" mix</u>								
Ind.	16	16	24	28	38	56	47	30
Ill.	188	196	223	246	274	283	316	286
Mo.	63	66	79	84	88	104	122	126
Ala.	4	2	5	3	2	4	2	2
Ark.	39	50	70	74	70	84	81	71
La.	33	47	45	44	48	36	47	38
Okla.	66	70	78	87	93	108	120	111
Texas	785	971	1,044	1,166	1,262	1,315	1,386	1,340
Mont.	1/	1/	1/	1/	1/	1/	1/	1/
Ariz.	29	33	36	39	44	49	48	29
Oreg.	42	43	50	45	39	64	52	52
Calif.	429	457	580	539	574	598	682	605
Other States 1/	91	99	113	136	115	130	146	121
United States	1,785	2,050	2,347	2,491	2,647	2,831	3,049	2,811

See footnotes on page 45.

Table 26. Frozen dairy products and mix: Production of specified products, by States, by months, 1970, and annual 1969 and 1970 Continued

State	1970				Annual			
	September	October	November	December	1969		1970	
					Plants	Production Number	Plants	Production Number
1,000 gallons								
<u>Other frozen dairy products</u>								
Conn.	85	36	49	36	1/	1/	3	905
N. Y.	107	82	52	46	25	1,515	26	1,379
Pa.	12	8	3	1	5	45	5	189
Ohio	66	45	24	18	8	2/799	7	830
Ind.	1/	1/	1/	1/	5	566	1/	1/
Ill.	24	21	10	12	5	261	6	331
Mo.	28	19	14	5	5	379	5	450
Kans.	8	2	1	1	1/	1/	4	110
Ga.	10	12	6	9	2/4	2/123	4	127
Tenn.	11	9	7	4	4	106	5	113
Miss.	1	1	1	1	3	28	4	15
Ark.	7	4	4	4	1/	1/	3	68
La.	11	9	7	9	4	328	3	151
Okla.	12	9	17	6	1/	1/	3	139
Texas	46	36	21	39	7	500	10	503
Idaho	1/	1/	1/	1/	4	73	1/	1/
Colo.	1/	1/	1/	1/	3	31	1/	1/
Oreg.	16	17	8	11	1/	1/	4	320
Other States 1/	106	71	37	37	13	1,224	13	1,089
United States	550	381	261	239	2/95	2/5,978	105	6,719
<u>"Mellorine-type" frozen desserts</u>								
Ind. 3/	75	46	38	30		2/478		760
Ill.	357	335	297	270		3,961		4,150
Mo.	222	222	106	109		2,968		2,318
Ala.	3	3	1	2		2/120		55
Ark.	122	90	75	74		1,454		1,370
La.	89	55	42	60		1,214		984
Okla.	172	132	87	102		2,664		1,940
Texas	2,202	1,675	1,320	1,311		23,176		22,793
Mont.	1/	1/	1/	1/		491		1/
Ariz.	79	66	46	49		1,022		870
Oreg.	79	75	57	56		976		1,055
Calif.	1,153	1,077	732	775		14,347		13,076
Other States 1/	212	199	149	157		2,695		2,399
United States	4,765	3,975	2,950	2,995	4/	2/55,566	4/	51,770
<u>"Mellorine-type" mix</u>								
Ind.	30	11	6	3	2/4	2/274	5	305
Ill.	243	256	199	209	23	2,738	23	2,919
Mo.	100	103	67	76	16	1,417	17	1,078
Ala.	2	1	1	1	2/4	2/60	3	29
Ark.	65	47	41	37	10	775	10	729
La.	42	23	20	27	14	571	14	450
Okla.	87	68	42	54	18	1,543	16	984
Texas	1,161	955	782	801	69	12,821	62	12,968
Mont.	1/	1/	1/	1/	7	260	1/	1/
Ariz.	39	32	23	24	4	508	4	425
Oreg.	37	37	27	27	12	488	14	515
Calif.	551	516	350	371	27	6,855	28	6,252
Other States 1/	121	111	84	86	15	1,495	18	1,353
United States	2,478	2,160	1,642	1,716	223	2/29,805	214	28,007

1/ States not shown when less than 3 plants reported or individual plant operations might be disclosed.
 2/ Revised. 3/ Lowfat, designated as "Imitation ice milk." 4/ Not available.

Table 27. Water ices: Production, by States, by months, 1970 and annual 1970

State	1970						
	January	February	March	April	May	June	July
	1,000 gallons						
Maine	9	9	10	33	59	38	52
Mass.	34	70	69	83	119	145	130
R. I.					1	2	1
Conn.	9	14	22	33	55	46	59
N. Y.	79	107	214	458	651	886	1,062
N. J.	31	32	49	68	89	146	144
Pa.	65	124	143	219	280	364	480
Ohio	35	89	191	235	402	542	516
Ind.	22	56	82	116	143	191	189
Ill.	65	91	150	174	235	213	235
Wis.	32	85	107	113	144	201	223
Minn.	16	57	91	121	151	136	131
Iowa	19	14	22	22	44	53	50
Md.	11	12	64	116	369	591	616
Va.		1	2	10	25	26	20
W. Va.	5	3	8	12	18	38	62
N. C.	84	82	151	205	290	262	236
Ga.	5	12	20	40	55	58	65
Fla.	16	18	26	22	25	41	42
Ky.	9	16	25	27	37	46	50
Tenn.	25	38	49	79	109	123	107
Ala.	14	19	34	38	62	86	72
Miss.	9	9	14	22	32	24	25
La.	9	11	24	30	42	57	52
Okla.	9	13	13	26	40	42	51
Texas	44	43	69	121	132	176	166
Mont.	1	2	3	6	8	9	12
Colo.	3	5	7	3	16	27	35
Ariz.	2	2	2	3	6	6	6
Utah	13	13	21	30	24	60	53
Wash.	13	21	27	48	57	81	81
Calif.	280	278	395	550	706	729	768
Other States 1/	41	88	132	168	240	335	338
United States	1,009	1,434	2,236	3,231	4,666	5,780	6,129

See footnotes at end of table.

Table 27. Water ices: Production, by States, by months, 1970 and annual 1970 Continued

State	1970					Annual Production	
	August	September	October	November	December	Plants	1970
	1,000 gallons					Number	1,000 gallons
Maine	50	13	7	5	5	3	290
Mass.	114	86	57	47	32	10	986
R. I.	2	1				3	7
Conn.	58	21	7	10	8	15	342
N. Y.	917	489	123	66	65	57	5,117
N. J.	130	78	39	23	18	17	847
Pa.	336	203	127	49	85	25	2,475
Ohio	311	140	70	38	26	15	2,595
Ind.	104	76	30	30	8	6	1,047
Ill.	215	110	49	35	40	13	1,612
Wis.	153	37	25	12	21	7	1,153
Minn.	97	77	30	17	29	4	953
Iowa	30	18	16	9	10	5	307
Md.	403	283	33	9	8	4	2,515
Va.	16	9	3	2	7	4	121
W. Va.	54	25	19	3	8	3	255
N. C.	202	180	169	99	113	15	2,073
Ga.	38	28	28	10	4	5	363
Fla.	33	22	48	21	16	5	330
Ky.	38	29	22	7	9	3	315
Tenn.	90	71	44	23	20	14	778
Ala.	59	35	31	12	16	6	478
Miss.	17	12	11	6	4	7	185
La.	37	32	18	11	9	10	332
Okla.	35	22	13	11	7	5	282
Texas	163	105	53	30	35	17	1,137
Mont.	8	1	1	1		5	52
Colo.	49	4	2	6	1	6	158
Ariz.	5	3	2	2	1	3	40
Utah	31	22	4	4	17	5	292
Wash.	46	16	9	6	4	3	409
Calif.	726	536	401	226	251	19	5,846
Other States 1/	198	127	60	40	31	17	1,798
United States	4,765	2,911	1,551	870	908	336	35,490

1/ States not shown when less than 3 plants reported or individual plant operations might be disclosed.

Table 28. Ice cream mix: Production, by States, by months, 1970, and annual 1969 and 1970

State	1970							
	January	February	March	April	May	June	July	August
1,000 gallons								
Maine	120	121	151	167	174	198	216	220
N. H.	27	28	35	37	46	65	78	65
Vt.	6	8	13	18	22	32	34	29
Mass.	1,323	1,424	1,784	1,709	2,020	1,906	1,991	2,186
R. I.	76	79	85	83	107	81	85	86
Conn.	445	601	564	586	746	696	693	835
N. Y.	2,404	2,475	3,175	3,114	3,567	4,210	4,327	4,140
N. J.	550	601	724	710	851	911	991	949
Pa.	2,579	2,649	3,053	2,987	3,657	3,849	3,900	3,743
Ohio	1,619	1,765	1,996	1,882	2,022	2,307	2,368	2,164
Ind.	871	946	979	1,094	1,271	1,438	1,438	1,295
Ill.	1,515	1,569	1,718	1,735	1,910	1,702	2,163	2,069
Mich.	1,386	1,508	1,597	1,628	1,709	1,880	1,972	1,852
Wis.	728	783	868	840	897	1,167	1,266	1,085
Minn.	925	946	1,072	1,049	1,100	1,407	1,497	1,295
Iowa	291	297	349	319	313	411	450	367
Mo.	569	537	589	556	668	826	867	827
N. Dak.	102	108	129	121	127	167	179	155
S. Dak.	34	64	58	50	49	73	86	74
Nebr.	368	361	443	422	394	522	511	485
Kans.	249	275	275	285	308	294	363	341
D. C. & Del.	223	217	253	226	163	23	130	140
Md.	722	661	674	766	820	973	1,018	931
Va.	509	453	566	509	509	453	566	509
W. Va.	101	119	147	144	100	116	115	101
N. C.	442	467	594	591	747	784	820	754
S. C.	225	198	266	253	280	278	308	278
Ga.	302	312	366	333	381	413	451	364
Fla.	801	783	1,022	987	923	976	1,018	922
Ky.	135	161	192	242	264	292	300	282
Tenn.	521	549	724	729	981	1,074	995	985
Ala.	355	354	438	441	522	590	589	536
Miss.	122	135	157	187	178	242	212	160
Ark.	90	100	125	127	150	182	187	170
La.	320	351	400	404	468	462	485	458
Oklahoma	194	192	224	250	276	292	328	284
Texas	1,054	1,143	1,177	1,229	1,350	1,459	1,510	1,442
Mont.	65	69	81	86	91	114	123	119
Idaho	114	125	150	120	135	190	163	154
Colo.	252	268	284	331	287	324	376	342
N. Mex.	41	49	62	52	67	70	85	74
Ariz.	177	189	221	212	199	222	242	216
Utah	170	163	198	182	189	232	236	219
Nev.	34	31	34	34	36	40	46	43
Wash.	507	532	641	602	654	790	827	716
Oreg.	215	260	319	296	306	387	411	309
Calif.	2,597	2,517	3,078	2,984	3,042	3,274	3,522	3,262
Alaska & Hawaii 1/:	118	109	128	132	128	149	157	145
United States	26,593	27,652	32,178	31,841	35,204	38,543	40,695	38,177

See footnotes on page 49.

Table 28. Ice cream mix: Production, by States, by months, 1970, and annual 1969 and 1970 Con.

State	1970				Annual			
	September		October		November		December	
	Plants	Production	Plants	Production	Number	1,000 gallons	Number	1,000 gallons
1,000 gallons								
Maine	179	136	153	146	16	2,063	12	1,981
N. H.	39	24	14	13	10	522	9	471
Vt.	16	10	7	9	6	222	4	204
Mass.	1,746	1,716	1,507	1,511	43	20,403	42	20,823
R. I.	74	74	66	54	10	1,004	9	950
Conn.	642	520	584	479	24	7,410	22	7,391
N. Y.	3,696	2,790	2,458	2,620	78	40,573	78	38,976
N. J.	817	660	612	583	27	8,537	21	8,959
Pa.	3,546	3,088	2,685	2,779	121	38,371	111	38,515
Ohio	2,157	1,944	1,605	1,645	80	23,713	76	23,474
Ind.	1,339	1,069	915	875	34	12,554	31	13,530
Ill.	1,882	1,638	1,445	1,464	60	21,142	55	20,810
Mich.	1,565	1,392	1,086	1,241	59	18,920	58	18,816
Wis.	999	822	721	769	44	11,190	41	10,945
Minn.	1,168	1,063	905	1,037	26	13,171	23	13,464
Iowa	355	319	277	295	43	4,290	37	4,043
Mo.	767	697	594	627	34	9,172	36	8,124
N. Dak.	137	127	115	115	20	1,538	19	1,582
S. Dak.	73	65	71	68	11	1,102	7	765
Nebr.	471	373	340	376	19	5,379	15	5,066
Kans.	307	279	228	268	29	3,361	27	3,472
D. C. & Del.	150	122	105	120	5	4,441	6	1,872
Md.	862	713	582	654	20	9,396	18	9,376
Va.	453	453	339	339	16	6,759	16	5,658
W. Va.	103	95	69	76	9	1,723	8	1,286
N. C.	713	627	490	425	27	7,602	24	7,454
S. C.	270	317	248	230	6	2,931	6	3,151
Ga.	333	283	253	269	19	4,553	17	4,060
Fla.	902	830	663	775	22	10,555	21	10,602
Ky.	267	212	167	182	20	3,223	16	2,696
Tenn.	932	773	638	638	27	7,899	25	9,539
Ala.	552	423	326	331	2/20	2/4,702	20	5,457
Miss.	181	122	107	113	10	1,895	11	1,916
Ark.	170	127	108	110	11	1,625	11	1,646
La.	448	371	275	333	26	4,745	26	4,775
Oklahoma	271	228	182	175	23	3,270	20	2,896
Texas	1,344	1,154	974	985	70	14,621	59	14,821
Mont.	89	75	67	65	27	990	25	1,044
Idaho	145	109	117	122	16	1,799	15	1,644
Colo.	335	302	204	279	24	3,372	20	3,584
N. Mex.	74	58	44	51	6	647	6	727
Ariz.	227	186	165	180	10	2,317	9	2,436
Utah	210	164	159	146	13	2,294	13	2,268
Nev.	38	33	34	28	3	420	3	431
Wash.	607	599	528	494	31	7,167	27	7,497
Oreg.	281	219	224	194	23	3,444	24	3,421
Calif.	3,181	2,856	2,375	2,483	74	34,217	69	35,171
Alaska & Hawaii 1/	141	129	117	116	2/11	2/1,494	10	1,569
United States	35,254	30,386	25,948	26,887	2/1,364	2/392,738	1,258	389,358

1/ Includes Wyoming to avoid disclosure of individual operations.

2/ Revised.

Table 29. Ice milk mix: Production, by States, by months, 1970,
and annual 1969 and 1970 1/

State	1970							
	January	February	March	April	May	June	July	August
	1,000 gallons							
Maine	12	14	46	66	91	112	134	121
N. H. & Vt.	6	7	7	16	23	33	42	35
Mass.	430	393	512	720	896	1,044	1,271	1,189
R. I.	3	7	10	12	14	17	21	16
Conn.	24	35	39	54	81	80	112	120
N. Y.	349	445	651	682	834	987	972	873
N. J.	72	65	81	85	132	146	155	146
Pa.	422	420	608	679	900	986	1,028	1,000
Ohio	570	653	963	1,352	1,722	1,841	1,943	1,846
Ind.	266	269	301	338	431	504	488	436
Ill.	350	435	604	855	1,131	1,140	1,289	1,135
Mich.	316	369	505	703	791	928	996	892
Wis.	169	187	280	353	454	573	642	517
Minn.	137	192	302	352	448	569	606	600
Iowa	113	145	203	269	365	423	429	371
Mo.	271	310	363	434	562	732	746	689
N. Dak.	19	22	34	41	62	79	88	69
S. Dak.	15	24	36	61	82	99	105	93
Nebr.	143	158	206	245	299	332	352	325
Kans.	139	149	206	253	311	295	339	291
Md.	215	225	289	338	387	455	502	461
Va.	196	199	248	271	362	399	440	423
W. Va.	39	45	70	109	142	149	154	117
N. C.	369	444	436	566	576	787	818	773
S. C.	149	161	217	218	215	225	282	204
Ga.	314	330	403	426	473	539	556	474
Fla.	511	536	655	718	729	771	826	721
Ky.	112	125	177	235	290	327	332	307
Tenn.	337	399	485	522	593	695	683	660
Ala.	291	315	410	434	528	556	603	521
Miss.	100	112	134	171	196	188	193	185
Ark.	111	124	174	186	255	299	284	280
La.	129	140	165	212	229	271	257	236
Okla.	134	152	170	205	250	284	298	269
Texas	252	270	317	332	377	426	452	507
Mont.	18	23	41	43	58	77	83	69
Idaho	36	45	59	59	77	101	100	97
Colo.	127	141	171	200	270	292	352	303
Ariz.	110	114	136	135	158	170	161	154
Utah	106	121	143	154	194	233	244	237
Nev.	26	18	22	22	25	32	29	30
Wash.	317	350	398	422	512	570	580	512
Oreg.	177	194	249	226	343	336	354	333
Calif.	1,238	1,333	1,577	1,606	1,776	1,867	2,119	1,926
Alaska & Hawaii	39	34	43	37	46	51	52	53
Other States 3/	54	59	70	76	84	101	103	102
United States	9,333	10,308	13,216	15,493	18,774	21,121	22,615	20,718

See footnotes at end of table.

Table 29. Ice milk mix: Production, by States, by months, 1970,
and annual 1969 and 1970 1/ Continued

State	1970				Annual			
	September	October	November	December	1969		1970	
					Plants	Production Number 1,000 gallons	Plants	Production Number 1,000 gallons
1,000 gallons								
Maine	51	30	20	19	15	734	14	716
N. H. & Vt.	17	10	7	5	10	275	10	208
Mass.	663	640	507	470	23	3,315	23	8,735
R. I.	9	15	6	5	6	187	6	135
Conn.	70	53	60	33	14	714	12	761
N. Y.	714	527	415	418	54	7,258	52	7,867
N. J.	109	98	70	65	16	771	15	1,224
Pa.	833	672	465	546	91	7,416	91	8,559
Ohio	1,346	949	586	618	79	13,811	75	14,389
Ind.	427	353	299	266	32	4,390	30	4,378
Ill.	836	579	353	363	55	8,782	51	9,070
Mich.	607	426	308	342	49	6,944	49	7,183
Wis.	336	254	194	177	32	4,763	31	4,136
Minn.	334	232	157	162	25	3,253	22	4,091
Iowa	258	199	145	125	46	2,559	40	3,045
Mo.	560	437	321	303	37	6,153	37	5,728
N. Dak.	44	33	24	22	18	532	17	537
S. Dak.	51	31	20	19	6	487	8	636
Nebr.	250	190	141	138	20	3,067	19	2,779
Kans.	231	188	122	131	32	2,820	30	2,655
Md.	352	324	246	253	16	2,696	17	4,047
Va.	329	276	219	217	16	3,672	16	3,579
W. Va.	110	82	42	44	15	1,160	12	1,103
N. C.	661	487	365	382	24	6,226	24	6,664
S. C.	268	246	162	154	6	2,367	5	2,501
Ga.	418	334	266	278	26	4,877	26	4,811
Fla.	646	659	487	561	27	8,675	26	7,820
Ky.	253	185	134	139	23	2,090	22	2,616
Tenn.	709	510	328	399	25	6,418	27	6,320
Ala.	457	365	264	284	2/19	2/4,876	18	5,028
Miss.	171	132	91	87	23	1,855	19	1,760
Ark.	269	159	117	135	12	2,458	11	2,393
La.	211	164	124	142	25	2,322	24	2,280
Okla.	227	183	145	154	21	2,305	18	2,471
Texas	351	312	288	260	61	4,263	57	4,144
Mont.	41	35	22	28	26	515	25	538
Idaho	64	53	48	41	15	825	15	780
Colo.	231	158	153	161	23	2,174	20	2,559
Ariz.	146	130	121	121	8	1,442	8	1,656
Utah	164	140	112	99	14	1,885	14	1,947
Nev.	26	23	19	18	3	303	3	290
Wash.	441	372	286	288	28	5,000	24	5,048
Oreg.	253	222	179	248	22	2,621	25	3,114
Calif.	1,836	1,565	1,225	1,204	87	19,047	87	19,262
Alaska & Hawaii	46	42	35	36	6	527	6	514
Other States 3/	71	57	42	43	2/15	2/1,057	17	862
United States	16,487	13,131	9,740	10,003	2/1,249	2/169,888	1,198	180,939

1/ Includes milkshake mix.

2/ Revised.

3/ States not shown when less than 3 plants reported or individual plant operations might be disclosed.

Table 30. Milk sherbet mix: Production, by States, by months, 1970,
and annual 1969 and 1970

State	1970							
	January	February	March	April	May	June	July	August
	1,000 gallons							
Maine	7	8	12	17	30	30	35	44
N. H.			1	2	2	2	4	3
Vt.	1/	1/	1/	1/	1/	1/	1/	1/
Mass.	72	97	127	135	213	227	188	216
R. I.	4	2	3	3	5	8	6	6
Conn.	12	22	28	28	42	45	46	62
N. Y.	78	93	104	122	148	205	223	202
N. J.	16	16	19	22	27	30	37	42
Pa.	129	154	157	200	253	268	268	259
Ohio	111	101	136	143	217	235	292	238
Ind.	54	62	73	70	94	120	110	93
Ill.	128	132	162	196	217	171	241	220
Mich.	92	103	129	126	173	191	188	172
Wis.	28	31	45	36	42	54	65	46
Minn.	40	47	52	48	60	66	72	58
Iowa	13	23	23	24	25	38	45	37
Mo.	44	47	60	73	91	115	156	101
N. Dak.	5	5	7	8	9	12	12	10
S. Dak.	3	2	4	2	3	7	7	3
Nebr.	24	26	30	28	34	46	52	37
Kans.	19	19	28	26	23	36	34	29
D. C. & Del.	14	17	16	14	19	13	13	11
Md.	41	55	55	70	92	113	111	91
Va.	8	9	14	11	17	21	25	17
W. Va.	10	8	15	14	11	8	11	7
N. C.	46	49	83	82	116	125	148	108
S. C.	29	23	59	33	43	64	50	65
Ga.	25	30	33	37	41	53	52	46
Fla.	64	63	80	85	82	102	108	112
Ky.	13	14	19	20	28	32	33	27
Tenn.	48	51	82	72	97	107	107	105
Ala.	32	32	46	48	67	67	69	66
Miss.	11	7	11	12	13	17	18	13
Ark.	7	8	9	11	13	15	19	17
La.	21	17	28	37	34	37	51	32
Okla.	16	17	21	23	28	29	38	31
Texas	111	129	134	155	164	208	211	180
Mont.	4	3	5	5	5	7	8	6
Idaho	8	6	9	8	12	13	14	10
Wyo.	1/	1/	1/	1/	1/	1/	1/	1/
Colo.	22	25	24	32	25	34	37	33
N. Mex.	1/	1/	1/	1/	1/	1/	1/	1/
Ariz.	13	15	17	18	21	20	25	24
Utah	16	15	25	24	23	36	35	32
Nev.	2	2	3	3	4	4	5	4
Wash.	53	44	69	67	54	77	81	70
Oreg.	24	19	20	27	27	31	28	24
Calif.	270	245	335	325	344	373	396	368
Alaska & Hawaii	15	13	14	13	15	16	17	18
Other States 1/	5	6	8	7	7	13	12	13
United States	1,807	1,912	2,434	2,562	3,110	3,541	3,803	3,408

See footnotes at end of table.

Table 30. Milk sherbet mix: Production, by States, by months, 1970,
and annual, 1969 and 1970 Continued

State	1970				Annual			
	September		October	November	1969		1970	
	Plants	Production	Plants	Production	Number	1,000 gallons	Number	1,000 gallons
: 1,000 gallons								
Maine	20	12	10	8	5	174	5	233
N. H.	1	1	1	1	6	43	5	18
Vt.	1/	1/	1/	1/	3	7	1/	1/
Mass.	113	100	95	78	22	1,771	26	1,661
R. I.	6	5	3	3	7	36	7	54
Conn.	29	16	21	21	14	801	14	372
N. Y.	144	109	82	74	43	1,720	48	1,584
N. J.	22	17	19	16	11	277	11	283
Pa.	211	175	116	149	75	2,696	66	2,339
Ohio	182	154	148	120	50	1,961	49	2,077
Ind.	62	62	42	39	2/26	2/1,273	27	881
Ill.	165	137	130	137	41	2,053	42	2,036
Mich.	114	75	85	79	34	1,534	38	1,527
Wis.	40	31	29	24	24	531	24	471
Minn.	49	46	46	53	20	673	18	637
Iowa	21	20	15	19	15	348	13	303
Mo.	69	60	45	42	25	822	25	903
N. Dak.	7	8	5	6	9	86	10	94
S. Dak.	2	3	1	2	5	47	3	39
Nebr.	22	22	14	18	12	411	12	353
Kans.	32	21	18	16	16	228	16	301
D. C. & Del.	9	6	6	7	4	405	4	145
Md.	83	61	34	48	12	799	11	854
Va.	11	11	6	8	7	128	7	158
W. Va.	6	7	4	5	6	171	6	106
N. C.	79	73	42	46	20	838	19	997
S. C.	46	41	35	30	4	463	4	518
Ga.	39	25	25	25	13	491	12	431
Fla.	88	68	62	51	18	1,221	17	965
Ky.	23	16	12	16	10	176	10	253
Tenn.	85	68	40	46	20	909	19	908
Ala.	55	36	27	22	2/15	2/654	14	567
Miss.	12	8	5	7	8	149	6	134
Ark.	18	13	7	11	9	158	9	148
La.	32	24	20	13	18	390	19	346
Okla.	29	18	21	17	18	277	16	288
Texas	155	123	89	100	59	1,844	51	1,759
Mont.	3	4	4	5	18	64	14	59
Idaho	9	8	9	9	14	164	12	115
Wyo.	1/	1/	1/	1/	4	30	1/	1/
Colo.	31	22	18	24	17	293	14	327
N. Mex.	1/	1/	1/	1/	3	50	1/	1/
Ariz.	19	17	9	13	6	222	5	211
Utah	24	18	15	14	12	252	13	277
Nev.	3	4	3	2	3	37	3	39
Wash.	47	53	42	46	19	659	14	703
Oreg.	21	13	18	11	12	273	15	263
Calif.	329	283	217	224	57	3,705	53	3,709
Alaska & Hawaii	14	14	11	12	4	154	5	172
Other States 1/	8	5	5	6		8		95
United States	2,589	2,113	1,711	1,723	2/873	2/32,468	839	30,713

1/ States not shown when less than 3 plants reported or individual plant operations might be disclosed.
2/ Revised.

Table 31. Frozen dairy products: Production, by products, by hard and soft, with percentage comparisons, by States, 1970

State	Total production:		Total frozen products 1/				Ice cream 2/			Ice milk 2/ 3/		
	hard & soft products	Production	As % of total products	Hard	Soft	Production	As % of total ice cream	Hard	Soft	Production	As % of total ice milk	
	1/	1,000 gallons	Percent	1,000 gallons	Percent	1,000 gallons	Percent	1,000 gallons	Percent	1,000 gallons	Percent	
Maine	5,369	4,420	949	82	18	3,849	86	98	2	247	850	23
N. H.	1,702	1,500	202	88	12	1,422	73	95	5	2/	2/	2/
Vt.	462	135	327	29	71	113	15	88	12	2/	2/	2/
Mass.	56,129	45,377	10,752	81	19	39,942	1,002	98	2	2,848	9,692	23
R. I.	1,734	1,674	60	96	4	1,438	100			182	60	75
Conn.	16,142	13,571	2,571	84	16	12,029	1,813	87	13	956	758	56
N. Y.	84,327	72,609	11,718	86	14	65,020	6,296	91	9	5,097	5,422	48
N. J.	24,743	18,563	6,180	75	25	16,723	2,559	87	13	1,285	3,621	26
Pa.	95,676	82,379	13,297	86	14	71,302	5,408	93	7	7,657	7,862	49
Ohio	70,242	55,837	14,405	79	21	46,486	105	100		6,443	13,875	32
Ind.	36,895	31,282	5,613	85	15	24,242	1,920	93	7	5,522	2,922	65
Ill.	60,005	48,904	11,101	81	19	39,870	113	100		4,355	8,394	34
Mich.	51,267	43,358	7,909	85	15	36,936	110	100		3,907	7,761	33
Wis.	28,465	24,448	4,017	86	14	21,263	148	99	1	2,338	3,869	38
Minn.	35,663	31,485	4,178	88	12	28,053	207	99	1	2,414	3,971	38
Iowa	14,040	10,863	3,177	77	23	7,974	30	100		975	3,147	24
Mo.	31,980	25,847	6,133	81	19	16,347	195	99	1	6,790	4,978	58
N. Dak.	4,465	3,885	580	87	13	3,209	100			326	580	48
S. Dak.	1,201	306	895	25	75	272	68	80	20	25	827	3
Nebr.	14,527	12,877	1,650	89	11	9,594	100			2,738	1,650	62
Kans.	13,008	10,621	2,387	82	18	7,441	100			2,711	2,387	53
D. C.	4,632	3,857	775	83	17	3,337	80	98	2	323	695	32
Del.	1,317	631	686	48	52	547	70	89	11	2/	2/	2/
Md.	23,761	20,627	3,134	87	13	17,080	188	99	1	2,274	2,939	44
Va.	14,106	10,952	3,154	78	22	9,247	706	93	7	1,206	2,448	33
W. Va.	4,904	3,440	1,464	70	30	2,628	8	100		658	1,443	31
N. C.	31,446	29,935	1,511	95	5	18,224	322	98	2	10,130	1,177	90
S. C.	12,664	11,441	1,223	90	10	5,847	100			4,856	1,223	80
Ga.	16,217	12,515	3,702	77	23	7,896	100			4,011	3,702	52
Fla.	35,907	30,768	5,139	86	14	21,125	294	99	1	8,220	4,823	37
Ky.	9,694	6,452	3,242	67	33	4,632	609	88	12	1,382	2,633	34
Tenn.	27,121	24,620	2,501	91	9	15,747	80	99	1	7,434	2,395	24
Ala.	19,459	17,597	1,862	90	10	9,612	100			7,037	1,862	79
Miss.	7,034	5,427	1,607	77	23	3,658	141	96	4	1,518	1,466	51
Ark.	7,407	5,455	1,952	74	26	2,975	44	99	1	890	1,908	32
La.	15,912	13,529	2,383	85	15	9,695	100			2,288	2,383	49
Okla.	12,356	9,648	2,708	78	22	5,145	485	91	9	2,213	2,128	51
Texas	61,586	51,780	9,806	84	16	28,780	422	99	1	4,263	2,551	63
Mont.	2,887	2,239	648	78	22	1,710	165	91	9	406	483	46
Idaho	4,829	3,997	832	83	17	3,294	100			525	832	39
Colo.	11,667	8,922	2,745	76	24	6,989	100			1,406	2,745	34
N. Mex.	2,258	1,617	641	72	28	1,448	100			85	641	12
Ariz.	8,715	6,436	2,279	74	26	4,944	100			269	2,279	11
Utah	7,641	6,094	1,547	80	20	4,456	100			1,189	1,547	43
Nev.	1,687	975	712	58	42	811	24	97	3	42	688	6
Wash.	23,072	16,694	6,378	72	28	12,977	1,215	91	9	2,728	4,931	36
Oreg.	12,886	9,315	3,571	72	28	6,482	135	98	2	1,343	3,415	28
Calif.	120,246	102,166	18,080	85	15	71,987	100			11,064	18,080	38
Alaska	4/5,765	4/4,537	4/1,228	79	21	4/2,978	4/104	97	3	335	626	35
& Hawaii										216	1,555	12
Other States 2/												88
U. S.	1,155,218	961,607	193,611	83	17	737,776	25,240	97	3	135,327	156,224	46
												54

1/ Includes ice cream, ice milk, milk sherbet, and melloirene. 2/ Includes some States not shown separately. States not shown when less than 3 plants reported or individual operations might be disclosed. 3/ Includes

(Continued on page 55)

Table 32. Frozen dairy products: Production, by products, by hard and soft, with percentage comparisons, by States, 1970 Continued

State	Milk sherbet 2/				Mellorine 2/				Percentage total soft products sold as:			
	Production		As % of total		Production		As % of total		Ice cream		Ice milk : Sherbet : Mellorine	
	sherbet		mellorine		cream		milk		sherbet		mellorine	
	Hard	Soft	Hard	Soft	Hard	Soft	Hard	Soft	Hard	Soft	Hard	Soft
	1,000 gallons	Percent			1,000 gallons	Percent					Percent	
Maine	324	13	96	4					9	90	1	
N. H.												
Vt.	2/											
Mass.	2,587	58	98	2					9	90	1	
R. I.	54		100							100		
Conn.	586		100						71	29		
N. Y.	2,492		100						54	46		
N. J.	555		100						41	59		
Pa.	3,420	27	99	1					41	59		
Ohio	2,908	273	91	9					1	96	2	
Ind.	1,493	36	98	2	5/25	5/735	3	97	34	52	1	5/13
Ill.	3,000	123	96	4	1,679	2,471	40	60	1	76	1	22
Mich.	2,515	38	99	1					1	98	1	
Wis.	847		100						4	96		
Minn.	1,018		100						5	95		
Iowa	457		100						1	99		
Mo.	1,031	321	76	24	1,679	639	72	28	3	81	5	11
N. Dak.	150		100							100		
S. Dak.	9		100						8	92		
Nebr.	545		100							100		
Kans.	469		100							100		
D. C.	197		100						10	90		
Del.	2/											
Md.	1,273	7	99	1					6	94		
Va.	499		100						22	78		
W. Va.	154	13	92	8					1	98	1	
N. C.	1,581	12	99	1					21	78	1	
S. C.	738		100							100		
Ga.	608		100							100		
Fla.	1,423	22	98	2					6	94		
Ky.	438		100									
Tenn.	1,439	26	98	2					19	81		
Ala.	893		100		55		100		3	96	1	
Miss.	251		100							100		
Ark.	220		100		1,370		100		9	91		
La.	562		100		984		100		2	98		
Oklahoma	445		100		1,845	95	95	5	18	79	3	
Texas	2,747	30	99	1	15,990	6,803	70	30	4	26	1	69
Mont.	123		100							25	75	
Idaho	178		100								100	
Colo.	527		100								100	
N. Mex.	84		100								100	
Ariz.	353		100		870		100				100	
Utah	449		100								100	
Nev.	64		100		2/				3	97		
Wash.	989	232	81	19					19	77	4	96
Oreg.	435	21	95	5	1,055		100		4	95	1	
Calif.	6,039		100		13,076		100			100		
Alaska												
& Hawaii	278		100									
Other States 2/	182		100		2,247	152	94	6				
U. S.	47,629	1,252	97	3	40,875	10,895	79	21				

freezer-made milkshake. See footnotes table 24. 4/ Includes Wyoming to avoid disclosure of individual operations. 5/ Low fat, designated as "Imitation ice milk."

Table 32. Whole milk used in manufactured dairy products: Calculated quantities used in specified products, on a whole-milk-equivalent basis, by States, 1970 1/

State	Creamery	Cheese	Evaporated	Condensed	Condensed
	butter	Other than American	(unsweetened)	milk	milk
		American	Case	Bulk	Case & Bulk
1,000 pounds					
Maine	1,410				
N. H.					
Vt.	204,536	120,510	89,735		
Mass.			29,543		
R. I.			3,223		
Conn.			8,135		
N. Y.	116,659	462,472	689,086		118,781
N. J.			26,970		
Pa.	551,375		173,720	195,132	52,672
Ohio	431,448		242,386	366,509	525
Ind.	517,024	140,956	73,447		
Ill.	475,164	138,062	603,087		
Mich.	691,223	180,688	76,858		562
Wis.	4,366,888	6,483,204	2,062,757	69,783	58,076
Minn.	6,943,624	1,323,184	257,316		11,517
Iowa	2,173,140	745,980	146,100		
Mo.	578,108		85,878		
N. Dak.	531,510	353,713			
S. Dak.	589,263	413,126			
Nebr.	696,184	291,671	44,286		1,330
Kans.	300,000				
D. C.					
Del.					
Md.				61,217	
Va.					
W. Va.					
N. C.					
S. C.					
Ga.					
Fla.					
Ky.	389,255	600,240	11,766		
Tenn.	275,812	336,986	105,227	206,177	31,190
Ala.		37,442			
Miss.		79,960			71,841
Ark.		79,924	63,646		
La.	50,816				
Okla.	540,817				
Texas	96,816				
Mont.	62,363	30,824	4,151		
Idaho	499,084	413,835	165,369		
Wyo.		22,094			
Colo.		156,657			
N. Mex.					
Ariz.					
Utah	190,934	224,663			
Nev.					
Wash.	417,316	87,682	42,225		
Oreg.	259,647	152,255			
Calif.	1,847,917	25,563	74,259	266,032	39,062
Alaska and Hawaii					
U. S. 3/	24,535,810	14,265,587	5,300,018	2,575,619	474,808
					171,453

1/ Total whole-milk equivalent of factory dairy products calculated from production in each State as reported to the Statistical Reporting Service, and pounds of fat received at plants per pound of product made and test of milk used currently for each purpose. No adjustment has been made for shipments of milk and cream between States differing in the test of milk produced. Because of interstate shipments the whole-milk equivalent of products manufactured in each State does not necessarily show utilization of milk produced in the State.

(Continued on page 57.)

Table 32. Whole milk used in manufactured dairy products: Calculated quantities used in specified products, on a whole-milk-equivalent basis, by States, 1970 1/

State	Dry	Ice cream	Other	Total	Duplications	Net total
	whole milk	and other frozen products	milk products			
1,000 pounds						
Maine		59,548	23,112	84,070	17,621	66,449
N. H.		24,147		24,290	8,010	16,280
Vt.		4,297	24,164	524,674	21,420	503,254
Mass.		684,328	833	716,344	236,709	479,635
R. I.		22,259		25,482	6,617	18,865
Conn.		217,433	2,432	228,000	11,510	216,490
N. Y.	62,964	1,172,355	155,153	2,975,365	571,902	2,463,463
N. J.		326,612		354,133	18,974	335,159
Pa.		1,232,479	58,512	2,273,356	81,360	2,191,996
Ohio		774,022	90,135	2,062,312	96,917	1,965,395
Ind.	10,188	408,123	38,817	1,188,555	71,482	1,117,073
Ill.	49,071	626,147	92,022	2,001,136	194,119	1,807,017
Mich.	21,776	593,006	381,850	1,992,033	69,679	1,922,354
Wis.	28,514	332,567	122,918	13,600,019	680,775	12,919,244
Minn.	101,798	423,343	32,790	9,115,875	147,419	8,968,456
Iowa		141,047	16,000	3,240,339	82,296	3,158,043
Mo.		315,675	31,397	2,085,793	77,687	2,008,106
N. Dak.		54,046	3,134	942,403	45,846	896,557
S. Dak.		11,671	91,145	1,161,777	40,833	1,120,944
Nebr.	32,105	168,227	13,388	1,247,191	68,762	1,178,429
Kans.		148,760	24,349	763,420	27,214	736,206
D. C.		54,477		56,595	18,509	38,086
Del.		13,730		13,730	3,492	10,238
Md.		287,828	32,252	774,671	97,973	676,698
Va.		161,005	6,748	364,521	44,570	319,943
W. Va.		52,426	3,054	101,784	1,813	99,971
N. C.		351,984	11,156	432,727	133,043	299,684
S. C.		129,872		139,306	42,211	97,095
Ga.		175,871	4,182	183,047	23,846	159,201
Fla.		399,507	35,342	434,849	118,433	316,416
Ky.		99,149	27,614	1,415,537	51,286	1,364,251
Tenn.		284,241	13,877	1,253,510	66,957	1,186,553
Ala.		197,980	2,605	240,573	42,126	198,447
Miss.		73,134	2,047	297,232	8,626	288,606
Ark.		61,808	1,496	365,752	18,114	347,638
La.		170,737	11,132	250,412	9,671	240,741
Okla.		117,437	16,704	745,355	21,927	723,428
Texas		461,983	30,307	768,931	48,698	720,233
Mont.		34,094	5,482	136,914	7,202	129,712
Idaho		61,912	28,778	1,284,794	60,344	1,224,450
Wyo.		20,276	722	80,618	7,560	73,058
Colo.		139,415	19,610	354,193	8,487	345,706
N. Mex.		27,317	8,023	35,340	1,068	34,272
Ariz.		98,097	16,648	180,427	3,844	176,583
Utah		88,433	10,654	625,300	58,183	567,117
Nev.		19,776	1,232	25,294	696	24,598
Wash.		261,894	30,526	1,004,907	24,009	980,898
Oreg.		124,710	21,324	581,351	20,338	561,013
Calif.	2,479	1,323,677	392,325	3,972,574	171,549	3,801,025
Alaska and Hawaii		42,224	3,605	45,829	16,729	29,100
U. S. 3/	427,932	13,078,086	1,943,327	62,772,640	3,648,464	59,124,176

In order to avoid duplication in calculating the milk equivalent of all products made, deductions were made for the amount of fat recovered in whey cream and used for making butter, and for the amount of fat from butter and condensed milk used in making ice cream based on information obtained from plants. 2/ Milk equivalent of other dairy products, including items produced by less than 3 plants.

3/ States do not add to U. S. total. Includes milk equivalent for States not shown separately.

Table 33. Skim milk equivalents: Calculated quantities used in specified skim milk and buttermilk products, by States, 1970 1/

State	Cottage	Sweetened:	Unsweetened:	Condensed:	Dry or powdered	Other	Total
	cheese curd	condensed: skim milk, bulk	condensed: skim milk, case & bulk	or evaporated: buttermilk	Butter- milk	Nonfat milk	products 3/ milk 2/
1,000 pounds							
Maine	90,138					11,592	101,730
N. H.						394	394
Vt.	127,025		62,136		280,676	5,247	475,084
Mass.	3,050					146,294	149,344
Conn.	30,944					82,489	113,433
N. Y.	616,338		282,189		14,938	1,133,792	2,050,186
N. J.						2,929	2,206
Pa.	221,388	15,813	227,916		6,886	396,407	12,928
Ohio	319,669		180,243		11,671	348,403	911,794
Ind.	125,256		111,876			125,642	364,930
Ill.	313,694		34,425		6,897	4,411	360,408
Mich.	254,119		408,630		19,470	307,186	989,405
Wis.	246,481	150,798	461,298		137,049	2,062,907	3,058,533
Minn.	107,700		9,798		195,668	5,351,621	5,714,953
Iowa	51,844		101,565		91,179	1,514,887	1,759,997
Mo.	103,081		122,784				137,700
N. Dak.					21,890		363,565
S. Dak.	19,994				24,343	456,225	148,982
Nebr.	44,700				19,701	367,829	15,024
Kans.	86,963		54,900			1,467	515,586
D. C.							433,697
Md.	88,275		50,883			242,839	384,702
Va.	28,131						7,694
W. Va.	10,606						7,694
N. C.	40,513		414				284,504
S. C.							99,633
Ga.	14,094						127,764
Fla.	122,369						10,606
Ky.	73,800						40,927
Tenn.	49,819		33,738				132,881
Ala.	10,244						118,745
Miss.	7,713						202,302
Ark.	5,006						10,244
La.	39,463		50,817				10,722
Okla.	52,850		49,389				15,728
Texas	105,919				605		128,032
Mont.	17,613						298,354
Idaho	15,550		5,166		21,527	174,537	262,949
Wyo.						51	17,613
Colo.	66,531					109,450	446,009
N. Mex.	26,525					47,580	6,597
Ariz.	57,344						66,531
Utah	32,725		25,614				25,399
Nev.							82,743
Wash.	104,156		45,483				155,271
Oreg.	73,675						5,389
Calif.	689,588		272,469				381,189
Alaska & Hawaii	12,687						208,300
U. S. 4/	4,537,418	211,557	2,836,434	14,868	654,742	16,003,075	91,743
							24,349,837

1/ Skim-milk equivalents of the skimmed milk and buttermilk products as reported by dairy manufacturing plants. Totals shown exclude skim milk and buttermilk sold in fluid form or used for some minor products. Products included and conversion factors for converting to a skim-milk equivalent basis are: American full-skim cheese, 16.0; cottage cheese, 6.25; dried or powdered buttermilk and nonfat dry milk, 11; dry casein, 35.7; and 3 each for case and bulk sweetened condensed skim milk, bulk unsweetened condensed skim milk (plain condensed), concentrated skim milk (for animal feed), and condensed or evaporated buttermilk. Because of the fact that some of the skimmed milk and buttermilk products are not standardized, and because of the variations in percentage of solids not fat in skim milk and buttermilk, these conversion factors are only approximate. 2/ Includes dry skim milk for animal feed. 3/ Skim milk equivalent of other dairy products including items produced by less than 3 plants. 4/ States do not add to U. S. total. Includes milk equivalent for States not shown separately.

Table 35. Net whole-milk equivalents used in manufactured dairy products: Total and per capita, and percentage distribution by major products, United States, 1961-70

Year	Total	Per capita	Creamery butter	Percentage distribution				
				All whole milk	Evaporated and condensed cheese	Ice cream and other products	Other milk products	Total
1961	63,580	345.9	50.0	23.4	8.5	15.1	3.0	100.0
1962	64,141	343.6	51.5	22.4	7.8	15.2	3.1	100.0
1963	62,667	330.9	49.1	23.6	7.9	15.9	3.5	100.0
1964	64,538	336.0	48.5	24.2	7.8	15.9	3.6	100.0
1965	61,768	317.4	46.2	25.5	7.5	17.1	3.7	100.0
1966	57,900	294.2	40.9	28.8	8.1	18.1	4.1	100.0
1967	59,770	300.2	43.7	28.8	6.7	17.6	3.2	100.0
1968	59,230	294.2	42.1	29.3	6.6	18.5	3.5	100.0
1969	58,228	286.5	40.6	30.3	6.6	18.9	3.6	100.0
1970	59,124	287.9	38.7	33.1	5.4	18.8	4.0	100.0

Table 36. Skim-milk equivalents of certain skim-milk and buttermilk products, United States, 1961-70

Year	Full-skim American cheese	Cottage cheese curd	Condensed evaporated skim milk	Concentrated (for animal feed)	Nonfat dry milk	Condensed : and dried milk		Total 1/ buttermilk:
						Million pounds	1/	
1961	72	3,605	2,603	13	22,524	999	29,838	
1962	67	3,688	2,658	15	21,868	964	32,304	
1963	66	3,771	2,539	1	23,426	981	30,850	
1964	63	3,892	2,694		24,191	1,028	31,942	
1965	55	3,936	2,902		22,144	969	30,114	
1966	89	3,894	3,114		17,666	844	25,683	
1967	74	3,911	2,954		18,798	808	26,583	
1968	57	4,058	2,845		17,835	778	25,748	
1969	56	4,246	2,968		16,113	733	24,160	
1970	64	4,537	3,063		16,003	670	24,350	

1/ Includes other minor products.

Table 37. Ice milk: Percentage distribution hard and soft production; by months, by regions, and United States, 1970

Region and kind	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	:	
													Year	
N. Atl.	Hard: 7	6	8	7	9	10	10	11	10	8	7	7	39	
	Soft: 3	3	5	9	12	14	16	15	9	6	4	4	61	
E. N. Cent.	Hard: 6	7	8	8	9	11	12	10	9	8	6	6	38	
	Soft: 3	4	7	10	12	14	14	13	9	6	4	4	62	
W. N. Cent.	Hard: 6	5	8	8	10	12	12	11	9	7	6	6	48	
	Soft: 3	5	7	9	12	14	14	13	9	6	4	4	52	
S. Atl.	Hard: 6	7	8	9	9	11	11	10	9	8	6	6	62	
	Soft: 5	6	7	8	10	12	12	12	9	7	6	6	38	
S. Cent.	Hard: 6	7	8	9	10	11	11	11	9	7	5	6	61	
	Soft: 5	5	7	8	11	12	12	11	10	7	6	6	39	
West	Hard: 7	7	9	9	9	10	10	10	9	8	6	6	35	
	Soft: 6	6	8	8	10	11	11	11	9	8	6	6	65	
U. S. 1/	Hard: 6	7	8	8	10	11	11	10	9	8	6	6	46	
	Soft: 4	5	7	9	11	13	13	12	9	7	5	5	54	

1/ Alaska and Hawaii included.

Table 38. Number of dairy plants manufacturing one or more dairy products, 1970

State	Number of plants	State	Number of plants
Maine	26	Kentucky	52
New Hampshire	16	Tennessee	58
Vermont	27	Alabama	30
Massachusetts	85	Mississippi	26
Rhode Island	14	Arkansas	21
Connecticut	44	Louisiana	37
New York	244	Oklahoma	33
New Jersey	61	Texas	96
Pennsylvania	197	Montana	37
Ohio	167	Idaho	42
Indiana	76	Wyoming	12
Illinois	172	Colorado	48
Michigan	118	New Mexico	8
Wisconsin	667	Arizona	16
		Utah	14
Minnesota	194	Nevada	4
Iowa	129	Washington	50
Missouri	93	Oregon	38
North Dakota	55	California	174
South Dakota	39	Alaska	2
Nebraska	55	Hawaii	4
Kansas	56		
D. C.	6	U. S.	3,546
Delaware	4		
Maryland	33		
Virginia	40		
West Virginia	16		
North Carolina	35		
South Carolina	9		
Georgia	33		
Florida	33		

(Continued from page 7)

Cottage Cheese

Cottage cheese curd production in 1970 was 726 million pounds, 7 percent above 1969 and the highest of record. California continued to lead in production for the 22nd year with 15 percent of the U. S. total. Other major producing States were New York, Ohio, Illinois, and Michigan.

Creamed cottage cheese production was 978 million pounds, 8 percent above 1969 and a record high. California led for the 25th consecutive year, and with New York, Illinois, Ohio, and Michigan accounted for 47 percent of all creamed cottage cheese. Partially creamed cottage cheese (less than 4 percent milkfat) totaled 60 million pounds, 34 percent above 1969 and highest of record.

Miscellaneous Dry Products

Dry buttermilk production was 60 million pounds, down 11 percent from 1969 and lowest since 1955. Minnesota led all States for the 46th year with 30 percent of the total. Wisconsin and Iowa were also major producers.

Dry whey production was at a new record high with 620 million pounds, 20 percent above 1969. Dry whey for human food amounted to 294 million pounds, up 27 percent, and 47 percent of total dry whey. Animal feed showed an increase of 14 percent over 1969. Wisconsin, with 47 percent of the total dry whey production, led for the 31st year and with Minnesota, Missouri, Iowa, and Illinois accounted for 76 percent of total U. S. output. Condensed whey produced during 1970, at 221 million pounds, was 39 percent above 1969 with Wisconsin accounting for 68 percent of the total.

Malted milk powder, produced in Wisconsin only, totaled 19.4 million pounds compared with 18.6 million pounds in 1969. Crude milk sugar, for the sixth consecutive year, set a new record high--98 million pounds, up 5 percent from the previous year. Wisconsin produced 64 percent of the U. S. total.

Condensed Skim Milk

Bulk production of sweetened condensed skim milk was 71 million pounds in 1970, down 5 percent from the previous year. Wisconsin produced 71 percent of the total. Bulk output of unsweetened condensed skim milk production was 921 million pounds, 4 percent more than in 1969 and the second highest of record. Wisconsin, Michigan, New York, California, and Pennsylvania were the leading States and accounted for 60 percent of the U. S. total. Production of canned evaporated skim milk totaled 24 million pounds, 1 percent below 1969.

The data for manufactured dairy products in 1970, given in this report, were compiled from reports made by dairy manufacturers direct to the United States Department of Agriculture or through the cooperating State agencies shown below:

<u>State</u>	<u>Agency</u>	<u>Collaborator or Cooperating State Official</u>
Alabama	State Department of Agriculture and Industries ..	Richard (Dick) Beard, Commissioner
Alaska	Department of Natural Resources	
	State Division of Agriculture	Roland Snodgrass
California	State Department of Agriculture	Jerry W. Fielder, Director
Colorado	Colorado Department of Agriculture	
	Animal Industry Division	Harry B. Staver, Chief, Dairy Section
Florida	Florida Department of Agriculture	Doyle Conner, Commissioner
Georgia	Georgia Department of Agriculture	Thomas T. Irvin, Commissioner
Hawaii	State Department of Agriculture	Frederick C. Erskine, Chairman of the Board of Agriculture
Idaho	State Department of Agriculture	
	Bureau of Dairying	Dean Christensen, Director
Illinois	State Department of Agriculture	Gordon L. Ropp, Director
Indiana	Purdue University	
	Agricultural Experiment Station	
	Creamery License Division	P. E. Pritchett, In Charge
Iowa	State Department of Agriculture	
	Dairy Products Control Division	Richard C. Dennler, Chief
Kansas	State Board of Agriculture	
	Dairy Division	Brace Rowley, Dairy Commissioner
Kentucky	State Department of Agriculture	J. Robert Miller, Commissioner
Michigan	State Department of Agriculture	
	Dairy Division	Kenneth M. Van Patten, Chief
Minnesota	Department of Agriculture	Jon Wefald, Commissioner
Mississippi	State Department of Agriculture and Commerce	Jim Buck Ross, Commissioner
Missouri	State Department of Agriculture	Dexter D. Davis, Commissioner
	Dairy Division	Ruben Schapeler, Director
Montana	State Department of Agriculture	George Lackman, Commissioner
Nebraska	State Department of Agriculture	Glenn Kreuscher, Director
	Bureau of Dairies, Foods, and Drugs	W. G. McCubbin, Chief
Nevada	State Dairy Commission	Clarence J. Cassady, Administrator
New York	State Department of Agriculture and Markets	
	Division of Milk Control	Herbert R. Kling, Director
North Carolina	State Department of Agriculture	James A. Graham, Commissioner
	State Milk Commission	Grady Cooper, Jr., Executive Secretary
North Dakota	State Department of Agriculture	Leland R. Miller,
	Dairy Division	Dairy Commissioner
Ohio	Ohio Department of Agriculture	Gene R. Abercrombie, Director
Oklahoma	State Department of Agriculture	Clyde D. Lacey, State Dairy Commissioner
South Dakota	State Department of Agriculture	William H. Schroeder, Secretary
Tennessee	State Department of Agriculture	G. T. Thornton, Commissioner of Agriculture
Utah	State Board of Agriculture	
	Dairy Division	Archie S. Hurst, Supervisor
Virginia	State Department of Agriculture & Commerce	
	Division of Animal Health and Dairies	Dr. W. L. Bendix, State Veterinarian
Washington	State Department of Agriculture	Donald W. Moos, Director
West Virginia	State Department of Agriculture	Gus R. Douglass, Commissioner
Wisconsin	State Department of Agriculture	D. E. Wilkinson, Secretary
Wyoming	State Department of Agriculture	Jack Hertzler, Commissioner

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