
DAIRY PRODUCTS

ANNUAL SUMMARY 1978



Crop
Reporting
Board

Economics, Statistics, &
Cooperatives Service

U.S. Department
of Agriculture
Washington, D.C.
20250

June 1979
Da 2-1 (79)

C O N T E N T S

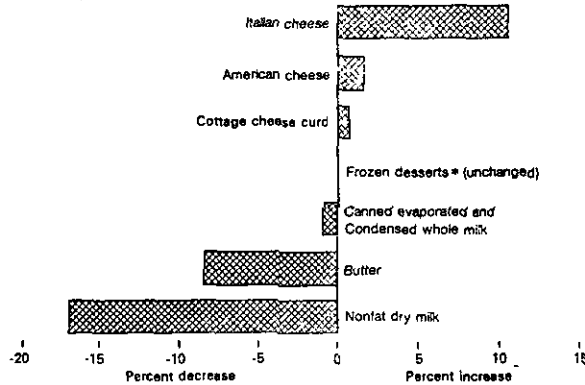
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BUTTER PRODUCTION LOWER IN 1978

United States production of butter during 1978 totaled 994 million pounds, 8 percent below the previous year. The three major butter producing States, Wisconsin, Minnesota and California, accounted for over half of the total output by contributing 25 percent, 17 percent and 14 percent, respectively.

Change in Production of Selected Dairy Products

1978 Compared with 1977



* Frozen desserts exclude ice cream, ice milk, milk sherbet, milkings and flavored-made milk drinks.
USDA. Rep. EACS 80-79 (6)

CHEESE OUTPUT SETS ANOTHER NEW RECORD

Total cheese production, excluding cottage cheese, continued its upward trend and reached a new record level of 3.52 billion pounds, 5 percent higher than 1977's record. Production increases in nearly all other varieties more than offset lower Cheddar output. Wisconsin, the leading producer, accounted for 38 percent of the Nation's output, followed by Minnesota with 13 percent and New York with 8 percent.

American type cheese production, at 2.07 billion pounds, up 2 percent from 1977, accounted for 59 percent of total cheese production for 1978. Cheddar output decreased 1 percent to 1.51 billion pounds while increases in other American varieties more than offset this decrease.

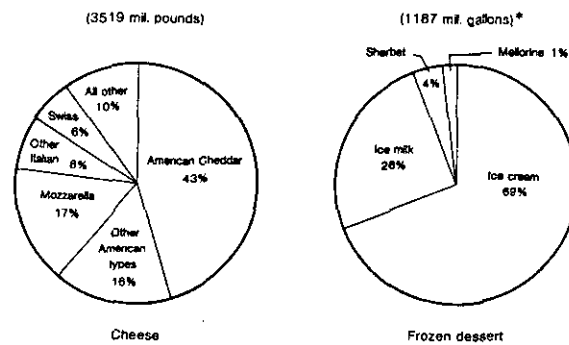
Italian varieties continued their steady increase with a record output of 875 million pounds, 10 percent above the 793 million pounds produced during 1977. Mozzarella accounted for 68 percent of the Italian cheeses, as production increased 10 percent from the previous year. The other Italian varieties registered similar increases, totaling an 11 percent gain over last year's output.

Wisconsin, the leading producer of Italian cheese in the Nation accounted for 32 percent of the total, followed by New York's 15 percent and California's 12 percent.

TOTAL COTTAGE CHEESE UP SLIGHTLY

Creamed cottage cheese totaled 872 million pounds, down 1 percent from a year earlier but lowfat cottage cheese, at 151 million pounds, increased 9 percent from the previous year.

Cheese and Frozen Dessert Production, 1978



* Frozen desserts include ice cream, ice milk, milk sherbet, mellorine and freezer-made milk shakes

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TOTAL FROZEN DAIRY PRODUCTS

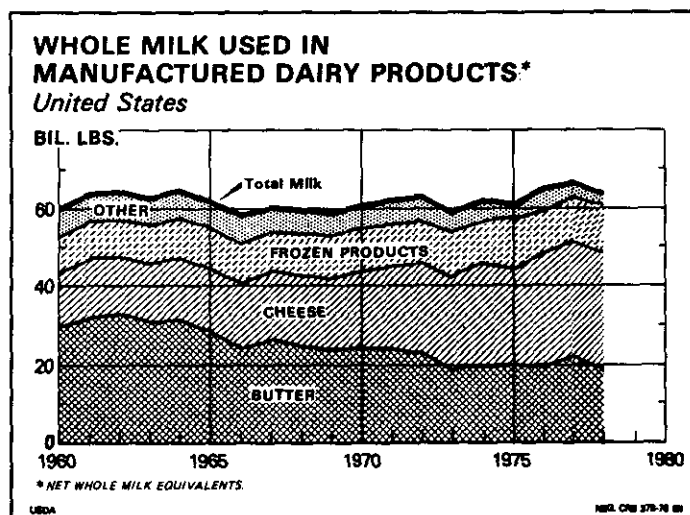
Frozen dairy products (ice cream, ice milk, milk sherbet, mellorine and "others") totaled 1.20 billion gallons, slightly above the 1977 production.

Ice cream production totaled 815 million gallons, 1 percent above the 810 million gallons produced in 1977. Production of ice milk, milk sherbet and mellorine decreased to 372 million gallons, 1 percent below the 1977 output.

The 239 million gallons of soft ice cream, ice milk, milk sherbet and mellorine made during 1978 accounted for about 20 percent of the total frozen products. Ice milk with 211 million gallons, made up the major portion of all soft production, with ice cream, milk sherbet and mellorine accounting for about 12 percent of all soft production. Soft frozen dairy products are sold from direct-serve soft freezer and milk shake machines.

NONFAT DRY MILK DOWN SHARPLY IN 1978

Nonfat dry milk for human food totaled 920 million pounds, 17 percent below 1977. Dry skim milk for animal feed totaled 6.49 million pounds, down 18 percent from a year earlier. Production of dry buttermilk decreased 11 percent from a year earlier with 47.6 million pounds produced. Dry whole milk production, however, increased 8 percent over 1977.



WHOLE MILK USED FOR DAIRY PRODUCTS - CURRENT YEAR

Manufactured dairy products used 55.3 percent of the milk marketed in the United States during 1978, down from the 56.0 percent in 1977. Whole milk used for manufactured products, based on milkfat content, totaled 65.9 billion pounds, 2 percent below the previous year.

The equivalent whole milk used for butter production totaled 19.7 billion pounds in 1978, (excluding butter from whey cream). Butter accounted for 30 percent of the total whole milk used for all products during 1978, compared with 33 percent a year earlier.

Whole milk used for cheese, excluding creamed cottage cheese, totaled 29.9 billion pounds, up from the 28.9 billion pounds in 1977. Milk for nearly all cheese varieties increased from last year. Whole milk for cheese production accounted for 45 percent of the milk used for manufactured dairy products, up 2 percentage points from last year.

TABLE 1: MILK MARKETINGS AND UTILIZATION FOR MANUFACTURED DAIRY PRODUCTS
UNITED STATES, 1960-78

YEAR	MILK MARKETED		YEAR	MILK MARKETED	
	TOTAL	USED FOR		TOTAL	USED FOR
	MIL LBS.	DAIRY PRODUCTS		MIL LBS.	DAIRY PRODUCTS
		PERCENT			PERCENT
1960	113,951	52.4	1970	112,999	53.1
1961	117,325	54.2	1971	114,814	53.7
1962	118,587	54.1	1972	116,487	53.5
1963	118,144	53.0	1973	112,141	52.3
1964	120,478	53.6	1974	112,385	54.6
1965	118,206	52.3	1975	112,262	53.9
1966	114,440	50.6	1976	117,303	55.1
1967	113,567	52.6	1977	119,856	56.0
1968	112,563	52.6	1978	119,273	55.3
1969	111,793	52.1			

(COMMENTS CONTINUED ON PAGE 69)

TABLE 2--PRODUCTION OF SPECIFIED PRODUCTS, UNITED STATES, BY MONTHS, 1977, REVISED

PRODUCTS	PLANTS	JAN	FEB	MAR	APR	MAY	JUN
	NUMBER	1,000 POUNDS					
BUTTER	322	105,455	95,431	98,402	99,946	103,180	93,019
CHEESE TYPES:							
AMERICAN VARIETIES:							
CHEDDAR	462	126,867	120,499	136,994	143,706	159,792	154,956
OTHER AMERICAN 1/	234	41,853	38,626	46,506	50,734	52,324	46,405
TOTAL AMER.	536	168,720	159,125	183,500	194,440	212,116	201,361
PART SKIM	3	360	123	362	486	422	386
SWISS	69	15,179	14,021	16,380	16,900	19,114	19,360
MUNSTER	68	4,508	4,212	4,897	4,438	4,181	4,631
BRICK	52	1,422	1,252	1,281	1,278	1,400	1,282
LIMBURGER	6	155	152	147	133	149	122
ITALIAN VARIETIES:							
MOZZARELLA	143	38,850	37,830	46,575	46,556	48,647	45,845
OTHER ITALIAN	130	19,486	18,211	23,427	21,362	21,630	21,779
TOTAL ITALIAN:	186	58,336	56,041	70,002	67,918	70,277	67,624
CREAM	22	10,109	11,105	15,967	11,709	11,981	14,604
NEUFCHATEL	4	274	211	255	332	209	350
BLUE 2/	11	2,897	2,581	2,845	2,859	2,895	2,912
ALL OTHER TYPES 3/	73	3,685	3,663	4,061	4,183	3,369	3,342
TOTAL CHEESE 4/	796	265,645	252,486	299,697	304,676	326,113	315,974
COTTAGE CHEESE:							
CURD 5/	325	53,522	53,778	64,132	59,601	60,684	60,381
CREAMED 6/	316	68,445	68,921	81,555	75,729	78,441	77,385
LOWFAT 7/	161	10,945	10,711	13,086	12,185	12,232	12,393
CANNED MILK:							
EVAPORATED AND							
COND. WHOLE 8/	23	60,281	61,539	69,418	78,639	83,095	78,419
EVAPORATED SKIM	7	984	1,188	876	614	448	617
BULK CONDENSED MILK:							
WHOLE							
SWEETENED	12	7,148	6,747	8,600	7,089	7,575	6,561
UNSWEETENED	35	13,285	11,868	16,688	15,376	15,409	14,901
SKIM							
SWEETENED	10	4,903	4,199	5,532	4,403	6,301	7,014
UNSWEETENED	104	54,927	54,159	66,091	68,078	73,246	80,284
CONDENSED OR							
EVAPORATED							
BUTTERMILK	12	2,085	2,177	2,511	2,158	2,958	3,192
DRY MILK:							
DRY WHOLE MILK	15	6,284	6,238	7,645	6,323	7,521	6,307
NONFAT DRY MILK							
FOR HUMAN FOOD	134	70,259	71,803	87,970	105,971	119,929	130,324
DRY SKIM MILK							
FOR ANIMAL FEED:	91	519	483	664	742	765	1,008
DRY BUTTERMILK	66	5,328	4,693	4,815	4,908	5,216	4,435

SEE FOOTNOTES ON PAGE 7.

TABLE 2--PRODUCTION OF SPECIFIED PRODUCTS, UNITED STATES, BY MONTHS, 1977, REVISED

PRODUCTS	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1,000 POUNDS							
BUTTER	81,762	77,803	75,033	84,547	81,528	89,489	1,085,595
CHEESE TYPES:							
AMERICAN VARIETIES:							
CHEDDAR	131,793	121,270	102,620	105,328	97,563	116,153	1,517,541
OTHER AMERICAN 1/	43,504	43,711	38,897	40,991	37,915	44,056	525,522
TOTAL AMER.	175,297	164,981	141,517	146,319	135,478	160,209	2,043,063
PART SKIM	288	348	390	361	278	306	4,110
SWISS	17,263	16,042	13,989	12,651	12,766	15,594	189,259
MUNSTER	4,599	4,474	4,426	5,131	4,876	5,046	55,419
BRICK	1,017	1,345	1,463	1,562	1,270	1,315	15,887
LIMBURGER	152	109	152	176	142	134	1,723
ITALIAN VARIETIES:							
MOZZARELLA	45,624	47,930	45,854	46,469	45,798	48,057	544,035
OTHER ITALIAN	18,877	21,033	19,388	20,025	20,484	23,752	249,454
TOTAL ITALIAN	64,501	68,963	65,242	66,494	66,282	71,809	793,489
CREAM	10,963	12,720	17,332	16,799	19,685	20,146	173,120
NEUFCHATEL	251	178	379	299	310	253	3,301
BLUE 2/	2,882	2,937	2,922	3,057	2,837	3,152	34,776
ALL OTHER TYPES 3/	2,952	3,617	3,928	4,012	3,891	3,685	44,388
TOTAL CHEESE 4/	280,165	275,714	251,740	256,861	247,815	281,649	3,358,535
COTTAGE CHEESE:							
CURD 5/	56,849	59,794	57,312	54,895	54,143	49,390	684,481
CREAMED 6/	74,341	77,248	73,667	69,443	69,518	63,285	877,978
LOWFAT 7/	11,271	12,231	11,403	11,367	10,961	10,222	139,007
CANNED MILK:							
EVAPORATED AND							
COND. WHOLE 8/	74,568	71,138	58,543	53,348	47,136	58,805	794,929
EVAPORATED SKIM	428	475	534	425	795	713	8,097
BULK CONDENSED MILK:							
WHOLE							
SWEETENED	4,063	7,067	7,330	7,203	5,234	3,623	78,240
UNSWEETENED	13,662	16,266	12,865	13,200	12,563	10,030	166,113
SKIM							
SWEETENED	4,868	7,464	7,112	3,695	3,797	4,450	63,738
UNSWEETENED	74,057	77,180	64,521	59,325	54,030	56,657	782,555
CONDENSED OR							
EVAPORATED							
BUTTERMILK	2,297	2,337	2,992	2,899	2,813	1,925	30,344
DRY MILK:							
DRY WHOLE MILK	4,322	6,529	4,700	4,346	4,249	4,915	69,379
NONFAT DRY MILK							
FOR HUMAN FOOD	123,236	105,970	77,608	70,311	65,174	78,064	1,106,619
DRY SKIM MILK							
FOR ANIMAL FEED:	876	569	563	822	437	436	7,884
DRY BUTTERMILK	3,753	3,619	3,410	4,085	4,038	4,931	53,231

1/ INCLUDES COLBY, WASHED OR STIRRED CURD, MONTEREY AND JACK. 2/ INCLUDES GORGONZOLA. 3/ INCLUDES FULL-SKIM BEGINNING 1974. 4/ EXCLUDING COTTAGE CHEESE. 5/ MOSTLY USED FOR PROCESSING INTO CREAMED OR LOWFAT COTTAGE CHEESE. 6/ MILKFAT CONTENT 4.0 PERCENT OR MORE. 7/ MILKFAT CONTENT LESS THAN 4.0 PERCENT, MOSTLY 0.5 TO 2.0 PERCENT MILKFAT. 8/ COMBINED TO AVOID DISCLOSING INDIVIDUAL PLANT OPERATIONS.

TABLE 3--PRODUCTION OF SPECIFIED PRODUCTS, UNITED STATES, BY MONTHS, 1978

PRODUCTS	PLANTS	JAN	FEB	MAR	APR	MAY	JUN
	NUMBER	1,000 POUNDS					
BUTTER	299	107,399	95,469	98,216	97,192	97,559	85,139
CHEESE TYPES:							
AMERICAN VARIETIES:							
CHEDDAR	430	120,500	112,474	132,679	140,703	155,383	155,426
OTHER AMERICAN 1/	226	40,558	41,732	49,889	48,919	53,336	52,618
TOTAL AMER.	507	161,058	154,206	182,568	189,622	208,719	208,044
PART SKIM	3	291	317	641	447	508	255
SWISS	67	16,353	15,276	18,170	18,462	19,745	20,295
MUNSTER	65	4,784	4,095	4,952	4,924	5,038	5,574
BRICK	51	1,498	1,433	1,375	1,400	1,488	1,464
LIMBURGER	5	166	152	182	110	121	69
ITALIAN VARIETIES:							
MOZZARELLA	151	46,824	43,386	52,207	49,530	51,836	49,674
OTHER ITALIAN	133	21,502	21,239	26,664	21,374	24,813	23,363
TOTAL ITALIAN:	192	68,326	64,625	78,871	70,904	76,649	73,037
CREAM	21	11,802	13,200	20,454	10,852	13,249	15,774
NEUFCHATEL	4	479	448	542	436	452	402
BLUE 2/	11	3,210	2,773	3,092	2,984	3,237	3,231
ALL OTHER TYPES 3/	73	3,133	3,402	3,526	3,518	3,668	3,793
TOTAL CHEESE 4/	778	271,100	259,927	314,373	303,659	332,874	331,938
COTTAGE CHEESE:							
CURD 5/	301	54,633	54,744	62,653	58,953	63,625	59,680
CREAMED 6/	298	68,377	69,701	79,271	74,209	80,276	77,173
LOWFAT 7/	158	12,100	11,544	14,174	12,944	14,442	13,597
CANNED MILK:							
EVAPORATED AND							
COND. WHOLE 8/	23	56,132	52,858	68,624	69,073	82,804	81,300
EVAPORATED SKIM	7	712	811	1,071	735	872	770
BULK CONDENSED MILK:							
WHOLE							
SWEETENED	15	6,653	6,297	6,115	9,806	8,428	6,823
UNSWEETENED	30	11,308	11,634	13,451	11,887	13,106	13,463
SKIM							
SWEETENED	10	3,825	3,261	3,876	3,624	4,192	4,689
UNSWEETENED	105	50,083	51,359	62,136	66,448	68,475	68,738
CONDENSED OR							
EVAPORATED							
BUTTERMILK	10	2,913	2,934	3,691	4,251	3,425	3,652
DRY MILK:							
DRY WHOLE MILK	25	6,878	5,208	7,417	7,221	8,204	7,185
NONFAT DRY MILK							
FOR HUMAN FOOD	127	76,994	68,667	84,428	94,681	103,611	114,909
DRY SKIM MILK							
FOR ANIMAL FEED:	76	735	388	598	471	748	627
DRY BUTTERMILK	66	5,159	4,476	5,110	4,566	4,491	3,917

SEE FOOTNOTES ON PAGE 9.

TABLE 3--PRODUCTION OF SPECIFIED PRODUCTS, UNITED STATES, BY MONTHS, 1978

PRODUCTS	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	PERCENT OF 1977
1,000 POUNDS								
BUTTER	71,440	63,170	64,001	70,576	66,470	77,659	994,290	91.6
CHEESE TYPES:								
AMERICAN VARIETIES:								
CHEDDAR	133,977	116,644	102,099	108,783	106,535	120,319	1,505,522	99.2
OTHER AMERICAN 1/	45,581	48,976	44,277	47,944	44,896	49,954	568,680	108.2
TOTAL AMER.	179,558	165,620	146,376	156,727	151,431	170,273	2,074,202	101.5
PART SKIM	419	483	351	437	382	335	4,866	118.4
SWISS	19,251	18,308	16,269	15,244	15,024	16,965	209,362	110.6
MUNSTER	4,945	4,954	4,817	5,018	4,819	5,393	59,313	107.0
BRICK	1,434	1,444	1,297	1,364	1,231	1,455	16,883	106.3
LIMBURGER	93	131	148	147	155	132	1,606	93.2
ITALIAN VARIETIES:								
MOZZARELLA	48,119	51,935	50,283	51,937	50,922	52,533	599,186	110.1
OTHER ITALIAN	21,523	22,843	21,834	22,094	22,832	26,043	276,124	110.7
TOTAL ITALIAN:	69,642	74,778	72,117	74,031	73,754	78,576	875,310	110.3
CREAM	11,736	13,886	17,155	19,269	25,867	21,091	194,335	112.3
NEUFCHATEL	237	53	55	29	328	459	3,920	118.8
BLUE 2/	2,997	2,789	2,749	2,961	2,561	2,763	35,347	101.6
ALL OTHER TYPES 3/	3,304	4,038	3,658	4,104	4,105	3,945	44,194	99.6
TOTAL CHEESE 4/	293,616	286,484	264,992	279,331	279,657	301,387	3,519,338	104.8
COTTAGE CHEESE:								
CURD 5/	57,257	61,577	57,077	57,169	53,454	47,577	688,399	100.6
CREAMED 6/	73,737	76,795	72,399	72,003	67,802	60,551	872,294	99.4
LOWFAT 7/	12,310	13,234	12,773	12,320	11,426	10,510	151,374	108.9
CANNED MILK:								
EVAPORATED AND COND. WHOLE 8/	74,328	68,971	58,979	60,721	53,471	60,605	787,866	99.1
EVAPORATED SKIM	511	938	722	635	1,370	1,260	10,407	128.5
BULK CONDENSED MILK:								
WHOLE								
SWEETENED	4,838	8,177	7,758	7,031	4,892	3,860	80,678	103.1
UNSWEETENED	11,323	14,207	12,220	12,020	11,129	8,994	144,742	87.1
SKIM								
SWEETENED	3,256	4,094	4,435	3,722	2,626	3,034	44,634	70.0
UNSWEETENED	67,297	67,696	57,553	58,155	49,395	49,874	717,209	91.7
CONDENSED OR EVAPORATED BUTTERMILK	3,647	3,314	3,476	3,282	2,542	2,373	39,500	130.2
DRY MILK:								
DRY WHOLF MILK	6,057	5,732	4,745	4,952	5,091	5,927	74,617	107.6
NONFAT DRY MILK FOR HUMAN FOOD	97,222	75,720	57,542	48,145	42,680	55,823	920,422	83.2
DRY SKIM MILK FOR ANIMAL FEED:	636	644	653	441	275	272	6,488	82.3
DRY BUTTERMILK	3,423	2,950	2,883	3,290	3,275	4,073	47,613	89.6

1/ INCLUDES COLBY, WASHED OR STIRRED CURD, MONTEREY AND JACK. 2/ INCLUDES GORGONZOLA. 3/ INCLUDES FULL-SKIM BEGINNING 1974. 4/ EXCLUDING COTTAGE CHEESE. 5/ MOSTLY USED FOR PROCESSING INTO CREAMED OR LOWFAT COTTAGE CHEESE. 6/ MILKFAT CONTENT 4.0 PERCENT OR MORE. 7/ MILKFAT CONTENT LESS THAN 4.0 PERCENT, MOSTLY 0.5 TO 2.0 PERCENT MILKFAT. 8/ COMBINED TO AVOID DISCLOSING INDIVIDUAL PLANT OPERATIONS.

TABLE 4--PRODUCTION OF FROZEN PRODUCTS, UNITED STATES, BY MONTHS, 1977, REVISED

PRODUCTS	PLANTS	JAN	FEB	MAR	APR	MAY	JUN
	NUMBER	1,000 GALLONS					
FROZEN PRODUCTS:							
ICE CREAM 1/	1,095	51,372	55,846	73,644	68,272	71,226	83,928
ICE MILK 1/ 2/	702	15,752	17,755	25,765	27,381	32,087	35,424
MILK SHERBET 1/	782	2,887	2,824	4,220	4,189	4,868	5,900
OTHER FROZEN							
DAIRY PRODUCTS 1/	109	469	585	1,061	1,217	1,563	1,716
MELLORINE TYPE							
FROZEN DESSERTS 1/	110	1,214	1,426	1,826	1,625	1,802	2,079
WATER ICES 1/	273	1,336	2,028	3,362	3,848	5,175	6,185
MIX FOR PRODUCTS:							
ICE CREAM MIX	823	26,180	28,428	37,399	34,535	36,421	42,484
ICE MILK MIX 3/	838	9,656	10,952	16,143	17,003	19,744	21,470
MILK SHERBET MIX	597	1,939	1,836	2,808	2,757	3,222	3,802
MELLORINE MIX	120	694	788	994	924	1,007	1,173

SEE FOOTNOTES ON PAGE 11.

TABLE 5--PRODUCTION OF WHEY AND MODIFIED WHEY PRODUCTS, U.S., BY MONTHS, 1977, REVISED

PRODUCTS	PLANTS	JAN	FEB	MAR	APR	MAY	JUN
	NUMBER	1,000 POUNDS					
CONDENSED WHEY							
SOLIDS CONTENT 1/							
SWEET TYPE:							
HUMAN FOOD	26	8,675	8,317	10,436	9,588	11,306	10,222
ANIMAL FEED	12	1,125	950	1,227	1,405	2,129	1,387
ACID TYPE:							
HUMAN FOOD							
ANIMAL FEED AND:	8	1,065	1,039	1,216	1,350	1,243	1,175
TOTAL COND.	35	10,865	10,306	12,879	12,343	14,678	12,784
DRY WHEY:							
HUMAN FOOD	68	43,397	36,389	40,968	43,088	42,989	42,299
ANIMAL FEED	96	10,148	12,724	17,486	16,318	18,386	17,603
TOTAL DRY	115	53,545	49,113	58,454	59,406	61,375	59,902
MODIFIED							
DRY WHEY PRODUCTS							
PART DELACTOSED							
HUMAN FOOD	16	2,350	2,755	2,591	2,481	2,282	2,044
ANIMAL FEED	19	8,745	8,143	10,305	9,006	9,767	10,160
PART DEMINERALIZE:							
HUMAN FOOD	3	2,309	2,184	1,894	1,947	2,274	2,386
ANIMAL FEED 27							
PART DELACTOSED							
& DEMINERALIZED							
HUMAN FOOD	6	562	481	697	770	941	437
ANIMAL FEED 27							
LACTOSE							
HUMAN FOOD	19	8,393	8,682	9,595	8,433	9,053	8,886
ANIMAL FEED	5	460	475	502	550	594	860
TOTAL LACTOSE:	22	8,853	9,157	10,097	8,983	9,647	9,746
WHEY SOLIDS IN							
WET BLENDS							
HUMAN FOOD	18	2,554	2,171	2,209	1,749	1,805	1,958
ANIMAL FEED	8	3,776	3,572	3,363	2,232	1,529	3,134

SEE FOOTNOTES ON PAGE 11.

TABLE 4--PRODUCTION OF FROZEN PRODUCTS, UNITED STATES, BY MONTHS, 1977, REVISED

PRODUCTS	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1,000 GALLONS							
FROZEN PRODUCTS:							
ICE CREAM	79,329	83,710	72,202	60,085	56,741	53,494	809,849
ICE MILK 2/	36,156	34,215	27,419	21,850	17,952	16,193	307,949
MILK SHERRET	5,675	5,696	4,255	3,199	2,942	3,128	49,783
OTHER FROZEN							
DAIRY PRODUCTS	1,522	1,492	929	557	461	373	11,945
MELLORINE TYPE							
FROZEN DESSERTS	1,838	1,944	1,619	1,289	1,156	977	18,795
WATER ICES	5,337	4,209	2,308	1,446	1,118	912	37,264
MIX FOR PRODUCTS:							
ICE CREAM MIX	40,598	42,789	36,559	30,896	28,971	27,090	412,350
ICE MILK MIX 3/	21,954	21,120	17,052	13,595	11,499	10,371	190,559
MILK SHERRET MIX	3,586	3,695	2,708	2,095	1,963	1,978	32,389
MELLORINE MIX	1,028	1,094	892	739	666	540	10,539

1/ PLANT COUNT DOES NOT INCLUDE COUNTER-FREEZERS.

2/ INCLUDES FREEZER-MADE MILKSHAKE. SEE FOOTNOTE, TABLE 37. 3/ INCLUDES MILKSHAKE MIX.

TABLE 5--PRODUCTION OF WHEY AND MODIFIED WHEY PRODUCTS, U.S., BY MONTHS, 1977, REVISED

PRODUCTS	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1,000 POUNDS							
CONDENSED WHEY							
SOLIDS CONTENT 1/							
SWEET TYPE:							
HUMAN FOOD	9,698	9,635	8,726	8,988	7,953	10,416	113,960
ANIMAL FEED	1,628	2,453	1,620	1,676	1,649	1,422	18,671
ACID TYPE:							
HUMAN FOOD AND							
ANIMAL FEED	1,232	1,180	965	805	875	917	12,862
TOTAL COND.	12,558	13,268	11,111	11,469	10,477	12,755	145,493
DRY WHEY:							
HUMAN FOOD	37,774	36,337	35,340	36,190	34,765	42,976	472,512
ANIMAL FEED	12,530	11,147	10,155	9,337	8,962	10,495	155,291
TOTAL DRY	50,304	47,484	45,495	45,527	43,727	53,471	627,803
MODIFIED							
DRY WHEY PRODUCTS							
PART DELACTOSED							
HUMAN FOOD	1,794	1,909	1,903	2,000	2,280	2,456	26,845
ANIMAL FEED	9,998	10,202	10,994	10,704	10,300	8,734	117,058
PART DEMINERALIZE:							
HUMAN FOOD	2,061	2,480	2,495	2,678	2,660	2,236	27,604
ANIMAL FEED 2/							
PART DELACTOSED							
& DEMINERALIZED							
HUMAN FOOD	295	651	544	665	703	729	7,475
ANIMAL FEED 2/							
LACTOSE							
HUMAN FOOD	8,281	8,251	9,427	7,680	7,846	8,314	102,841
ANIMAL FEED	643	379	427	311	366	407	5,974
TOTAL LACTOSE:	8,924	8,630	9,854	7,991	8,212	8,721	108,815
WHEY SOLIDS IN							
WET BLENDS							
HUMAN FOOD	1,566	2,099	1,958	1,974	1,918	1,906	23,867
ANIMAL FEED	3,415	3,350	3,980	4,602	5,077	6,408	44,438

1/ FINAL MARKETABLE PRODUCT ONLY, DOES NOT INCLUDE QUANTITY USED OR SHIPPED TO ANOTHER PLANT FOR FURTHER PROCESSING INTO DRY WHEY OR MODIFIED DRY WHEY PRODUCTS.

2/ DATA NOT PUBLISHED TO AVOID DISCLOSURE OF INDIVIDUAL PLANT OPERATIONS.

TABLE 6--PRODUCTION OF FROZEN PRODUCTS, UNITED STATES, BY MONTHS, 1978

PRODUCTS	PLANTS	JAN	FEB	MAR	APR	MAY	JUN
	NUMBER	1,000 GALLONS					
FROZEN PRODUCTS:							
ICE CREAM 1/	1,062	52,831	56,711	70,961	65,280	73,767	85,573
ICE MILK 1/ 2/	670	15,598	17,686	25,708	26,300	32,092	35,963
MILK SHERBET 1/	735	2,947	2,705	4,044	4,047	4,745	6,017
OTHER FROZEN							
DAIRY PRODUCTS 1/	103	557	726	1,166	1,363	1,685	1,939
MELLORINE TYPE							
FROZEN DESSERTS 1/	101	1,009	1,062	1,547	1,577	1,664	1,835
WATER ICES 1/	261	1,511	1,850	3,027	3,479	3,938	5,165
MIX FOR PRODUCTS:							
ICE CREAM MIX	793	27,371	28,833	36,579	33,426	38,350	44,130
ICE MILK MIX 3/	789	9,622	10,601	15,704	16,137	20,187	22,346
MILK SHERBET MIX	566	2,035	1,818	2,687	2,655	3,120	3,967
MELLORINE MIX	114	560	594	876	914	905	1,055

SEE FOOTNOTES ON PAGE 13.

TABLE 7--PRODUCTION OF WHEY AND MODIFIED WHEY PRODUCTS, U.S., BY MONTHS, 1978

PRODUCTS	PLANTS	JAN	FEB	MAR	APR	MAY	JUN
	NUMBER	1,000 POUNDS					
CONDENSED WHEY							
SOLIDS CONTENT 1/							
SWEET TYPE:							
HUMAN FOOD	27	9,399	8,827	10,442	10,601	10,916	11,450
ANIMAL FEED	10	2,044	1,737	3,910	2,293	2,209	2,656
ACID TYPE:							
HUMAN FOOD AND							
ANIMAL FEED	5	941	1,086	1,042	1,076	1,075	972
TOTAL COND.	36	12,384	11,650	15,394	13,970	14,200	15,078
DRY WHEY:							
HUMAN FOOD	60	42,638	41,310	46,102	45,683	48,238	48,723
ANIMAL FEED	87	9,771	11,782	16,440	21,028	23,098	21,207
TOTAL DRY	105	52,409	53,092	62,542	66,711	71,336	69,930
MODIFIED							
DRY WHEY PRODUCTS							
PART DELACTOSED							
HUMAN FOOD	10	2,655	2,579	3,141	3,208	3,051	2,743
ANIMAL FEED	14	10,665	10,908	11,964	11,274	11,832	11,490
PART DEMINERALIZE							
HUMAN FOOD	3	2,642	2,340	2,821	2,348	2,602	2,748
ANIMAL FEED 2/							
PART DELACTOSED							
& DEMINERALIZED							
HUMAN FOOD	6	859	676	826	746	854	861
ANIMAL FEED 2/							
LACTOSE							
HUMAN FOOD	17	8,784	9,071	10,636	8,867	10,781	10,836
ANIMAL FEED	3	191	294	818	492	520	652
TOTAL LACTOSE	19	8,975	9,365	11,454	9,359	11,301	11,488
WHEY SOLIDS IN							
WET BLENDS							
HUMAN FOOD	12	2,143	2,352	3,190	3,021	3,249	3,548
ANIMAL FEED	7	5,139	5,562	4,545	4,063	4,894	5,016

SEE FOOTNOTES ON PAGE 13.

TABLE 6--PRODUCTION OF FROZEN PRODUCTS, UNITED STATES, BY MONTHS, TO 1978

PRODUCTS	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	PERCENT OF 1977
1,000 GALLONS								
FROZEN PRODUCTS:								
ICE CREAM	79,895	84,485	70,893	65,351	57,334	52,018	815,099	100.6
ICE MILK 2/	34,939	34,708	26,940	23,016	18,450	15,845	307,245	99.8
MILK SHERBET	5,286	5,151	4,005	3,504	2,881	2,702	48,034	96.5
OTHER FROZEN DAIRY PRODUCTS	1,729	1,358	913	696	529	368	13,029	109.1
MELLORINE TYPE								
FROZEN DESSERTS	1,626	1,654	1,366	1,251	916	757	16,264	86.5
WATER ICES	4,790	4,037	2,282	1,549	1,180	964	33,772	90.6
MIX FOR PRODUCTS:								
ICE CREAM MIX	41,096	43,261	36,248	33,256	29,055	26,420	418,025	101.4
ICE MILK MIX 3/	21,582	21,477	16,582	14,362	11,646	10,112	190,358	99.9
MILK SHERBET MIX	3,518	3,460	2,653	2,365	1,908	1,740	31,926	98.6
MELLORINE MIX	940	954	773	766	551	390	9,278	88.0

1/ PLANT COUNT DOES NOT INCLUDE COUNTER-FREEZERS.

2/ INCLUDES FREEZER-MADE MILKSHAKE. SEE FOOTNOTE, TABLE 37. 3/ INCLUDES MILKSHAKE MIX.

TABLE 7--PRODUCTION OF WHEY AND MODIFIED WHEY PRODUCTS, U.S., BY MONTHS, 1978

PRODUCTS	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	PERCENT OF 1977
1,000 POUNDS								
CONDENSED WHEY								
SOLIDS CONTENT 1/								
SWEET TYPE:								
HUMAN FOOD	10,036	10,226	8,984	9,783	9,284	9,977	119,925	105.2
ANIMAL FEED	2,436	2,472	2,511	3,025	2,033	2,036	29,362	157.3
ACID TYPE:								
HUMAN FOOD AND								
ANIMAL FEED	775	891	675	801	800	862	10,996	85.5
TOTAL COND.	13,247	13,589	12,170	13,609	12,117	12,875	160,283	110.2
DRY WHEY:								
HUMAN FOOD	42,627	41,500	36,298	38,595	39,326	44,026	515,066	109.0
ANIMAL FEED	18,391	16,680	16,996	12,614	13,285	15,132	196,424	126.5
TOTAL DRY	61,018	58,180	53,294	51,209	52,611	59,158	711,490	113.3
MODIFIED								
DRY WHEY PRODUCTS:								
PART DELACTOSED:								
HUMAN FOOD	2,030	2,597	2,150	2,994	3,167	3,338	33,653	125.4
ANIMAL FEED	10,784	11,763	11,119	10,445	10,661	9,260	132,165	112.9
PART DEMINERALIZE:								
HUMAN FOOD	2,706	2,596	2,998	1,328	2,536	2,700	30,365	110.0
ANIMAL FEED 2/								
PART DELACTOSED & DEMINERALIZED:								
HUMAN FOOD	551	610	466	908	735	709	8,801	117.7
ANIMAL FEED 2/								
LACTOSE								
HUMAN FOOD	9,453	8,669	7,722	8,086	7,958	8,365	109,228	106.2
ANIMAL FEED	501	499	400	404	224	305	5,300	88.7
TOTAL LACTOSE:	9,954	9,168	8,122	8,490	8,182	8,670	114,528	105.3
WHEY SOLIDS IN WET BLENDS:								
HUMAN FOOD	2,684	2,772	3,199	3,170	2,628	2,976	34,932	146.4
ANIMAL FEED	5,122	5,481	4,876	5,709	5,663	5,078	61,148	137.6

1/ FINAL MARKETABLE PRODUCT ONLY. DOES NOT INCLUDE QUANTITY USED OR SHIPPED TO ANOTHER PLANT FOR FURTHER PROCESSING INTO DRY WHEY OR MODIFIED DRY WHEY PRODUCTS.

2/ DATA NOT PUBLISHED TO AVOID DISCLOSURE OF INDIVIDUAL PLANT OPERATIONS.

TABLE 8--BUTTER
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1,000 POUNDS								
CALIF	16,390	13,686	13,185	11,995	11,799	10,410	11,423	10,540
COLO	641	602	503	444	389	228	176	178
IDAHO	925	614	568	668	302	635	593	568
ILL	315	327	325	282	332	331	357	321
IND	1,182	1,254	1,298	1,270	1,354	1,000	674	532
IOWA	4,179	3,849	4,459	3,906	4,159	3,851	2,884	1,851
KANS 2/	1,318	1,047	1,269	1,098	1,146	1,136	832	878
KY	1,216	1,039	1,221	930	1,185	875	1,022	1,128
MICH	3,050	2,738	2,768	2,849	3,250	3,022	2,163	1,362
MINN	15,997	14,557	16,525	16,617	17,159	16,102	14,661	12,403
MO	2,418	2,104	2,161	2,018	1,931	1,447	1,073	1,353
MONT	234	191	174	152	164	146	114	125
NEBR 1/								
N Y	4,313	3,842	3,135	4,975	4,008	4,276	2,648	1,427
N DAK	580	554	565	550	591	632	467	450
OHIO	3,442	3,217	3,350	2,782	3,106	2,600	2,002	1,383
OKLA	3,207	3,023	2,776	2,036	1,954	1,193	739	1,312
OREG	1,280	965	1,357	1,205	1,562	1,204	1,018	1,037
PA	4,207	3,980	3,789	3,656	3,675	3,197	2,540	2,466
S DAK	918	900	932	873	1,011	935	770	747
TENN	2,864	2,238	2,357	2,241	1,776	818	528	675
TEX 1/								
UTAH	669	403	389	310	484	378	356	371
VT	930	718	278	612	570	577	116	77
WASH	2,786	2,260	2,442	2,790	2,645	2,763	2,802	2,399
WIS	25,098	23,310	24,619	25,702	26,360	22,494	17,220	14,992
OTHER 1/	9,240	8,051	7,771	7,231	6,647	4,889	4,262	4,595
U S	107,399	95,469	98,216	97,192	97,559	85,139	71,440	63,170

TABLE 9--SWISS CHEESE
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1,000 POUNDS								
ILL	3,911	3,892	4,259	4,025	4,671	4,933	4,437	4,252
OHIO	2,243	2,190	2,756	2,811	3,350	3,267	3,192	2,996
PA	835	639	993	936	1,014	1,274	1,147	876
UTAH 2/	1,507	1,356	1,652	1,673	1,729	1,679	1,784	1,700
WIS	3,066	2,862	3,194	3,037	3,311	3,349	3,283	3,213
OTHER 1/	4,791	4,337	5,316	5,980	5,670	5,793	5,408	5,271
U S	16,353	15,276	18,170	18,462	19,745	20,295	19,251	18,308

SEE FOOTNOTES ON PAGE 15.

TABLE 8--BUTTER
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL			
	SEP	OCT	NOV	DEC	1977		1978	
	1,000 POUNDS				PLANTS	PRODUCTION	PLANTS	PRODUCTION
	1,000 POUNDS				NUMBER 1,000 LBS		NUMBER 1,000 LBS	
CALIF	11,204	9,629	8,444	10,230	21	156,942	21	138,935
COLO	328	469	599	534	4	4,531	3	5,091
IDAHO	554	573	541	673	7	9,408	6	7,214
ILL	226	274	339	280	7	9,777	6	3,709
IND	590	998	1,030	1,081	8	12,259	7	12,263
IOWA	1,691	1,432	1,326	1,681	12	49,767	12	35,268
KANS 2/	796	1,089	1,147	1,347	2	16,154	2	13,103
KY	929	1,266	1,466	1,596	3	14,302	2	13,873
MICH	1,642	1,777	1,480	2,354	12	34,791	12	28,455
MINN	11,421	11,867	10,673	12,593	48	198,635	47	170,575
MO	1,542	2,131	1,783	1,960	4	21,589	3	21,921
MONT	149	156	172	170	10	2,019	9	1,947
NEBR 1/					8	15,974		
N Y	1,453	1,822	1,401	1,931	25	37,253	24	35,231
N DAK	399	440	417	454	12	6,590	11	6,099
OHIO	1,658	2,173	2,022	2,200	9	36,225	8	29,935
OKLA	1,033	1,921	2,026	2,802	3	20,316	3	24,022
OREG	1,140	1,233	1,086	1,193	12	14,045	10	14,280
PA	2,149	2,752	2,947	3,054	10	32,092	11	38,412
S DAK	797	742	751	812	11	10,671	10	10,188
TENN	1,005	1,808	1,912	2,453	5	21,263	4	20,675
TEX 1/					3	2,667		
UTAH	278	306	307	403	6	5,507	6	4,654
VT	390	307	204	239	4	6,034	4	5,018
WASH	2,443	2,160	2,139	2,122	13	31,358	12	29,751
WIS	16,066	17,909	16,953	19,099	43	256,504	36	249,822
OTHER 1/	4,118	5,342	5,305	6,398	20	58,922	30	73,849
U S	64,001	70,576	66,470	77,659	322	1,085,595	299	994,290

TABLE 9--SWISS CHEESE
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL			
	SEP	OCT	NOV	DEC	1977		1978	
	1,000 POUNDS				PLANTS	PRODUCTION	PLANTS	PRODUCTION
	1,000 POUNDS				NUMBER 1,000 LBS		NUMBER 1,000 LBS	
ILL	3,482	2,887	3,252	3,729	9	45,573	10	47,730
OHIO	2,955	2,810	2,476	2,649	17	30,321	17	33,695
PA	606	640	533	652	6	10,726	6	10,145
UTAH 2/	1,711	1,771	1,688	1,741	2	19,189	2	19,991
WIS	3,186	3,393	3,087	3,150	25	36,884	21	38,131
OTHER 1/	4,329	3,743	3,988	5,044	10	46,566	11	59,670
U S	16,269	15,244	15,024	16,965	69	189,259	67	209,362

1/ STATES NOT SHOWN WHEN LESS THAN 3 PLANTS REPORTED OR INDIVIDUAL PLANT OPERATIONS MIGHT BE DISCLOSED.

2/ DATA FOR LESS THAN 3 PLANTS PUBLISHED BY PERMISSION OF THE FIRMS INVOLVED.

TABLE 10--TOTAL CHEESE, EXCLUDING COTTAGE CHEESE
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1,000 POUNDS								
ARK	1,035	1,052	1,345	1,562	1,728	1,613	1,450	1,418
CALIF	10,329	9,626	11,966	10,776	11,312	11,457	11,853	12,449
CONN	423	418	566	319	392	462	476	603
IDAHO	5,828	6,290	8,162	7,335	7,956	8,695	7,596	7,693
ILL	6,975	6,774	7,890	7,181	8,135	8,428	7,818	8,122
IND	2,258	2,050	2,774	3,061	3,258	3,200	2,716	2,702
IOWA	13,256	13,132	14,841	15,519	17,685	17,625	15,863	14,293
KANS	1,479	1,466	2,209	2,663	3,042	2,861	2,672	2,237
KY	4,931	4,784	5,364	6,611	7,362	6,930	6,458	6,019
MASS	636	580	996	725	652	447	411	678
MICH	2,553	2,473	2,620	2,563	2,835	3,151	2,730	2,732
MINN	36,940	36,246	41,898	40,489	42,354	40,569	32,857	32,568
MISS	508	733	1,290	1,599	1,334	1,022	837	725
MO	5,231	5,880	7,487	7,205	8,893	9,335	7,614	6,171
NEBR	5,174	4,408	4,671	4,688	5,370	5,258	5,124	5,186
N J	1,548	1,909	2,481	1,163	1,520	1,380	1,428	1,573
N Y	21,581	20,340	27,919	22,300	24,280	24,656	20,982	22,830
N DAK	3,990	3,746	4,208	4,295	5,259	5,890	5,215	4,207
OHIO	5,996	5,505	7,097	7,217	8,526	8,825	7,726	7,390
OREG	2,104	1,823	2,133	2,355	2,503	2,440	2,536	2,491
PA	8,120	7,403	9,506	8,318	9,040	8,994	7,282	8,096
S DAK	5,277	5,036	5,610	5,407	6,032	6,091	5,437	5,098
TENN	2,355	2,292	2,322	3,123	3,232	3,034	2,745	2,827
TEX	1,042	909	1,546	1,801	1,991	1,786	299	126
UTAH	4,538	4,162	4,614	5,140	5,991	6,182	5,903	5,227
VT	5,244	4,884	5,911	6,144	6,222	6,616	5,985	6,051
WASH	2,915	2,541	3,045	3,406	4,304	3,550	3,740	3,569
WIS	104,500	99,749	118,699	114,726	125,246	125,087	113,276	109,587
OTHER 1/	4,334	3,716	5,203	5,968	6,420	6,354	4,587	3,816
U S	271,100	259,927	314,373	303,659	332,874	331,938	293,616	286,484

TABLE 11--BRICK CHEESE
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1,000 POUNDS								
OHIO 1/								
WIS	938	963	1,009	963	1,069	1,082	1,097	1,050
OTHER 1/	560	470	366	437	419	382	337	394
U S	1,498	1,433	1,375	1,400	1,488	1,464	1,434	1,444

SEE FOOTNOTES ON PAGE 17.

TABLE 10--TOTAL CHEESE, EXCLUDING COTTAGE CHEESE
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL			
	SEP	OCT	NOV	DEC	1977		1978	
					PLANTS	PRODUCTION	PLANTS	PRODUCTION
1,000 POUNDS				NUMBER 1,000 LBS		NUMBER 1,000 LBS		
ARK	1,246	1,137	827	1,130	4	13,053	4	15,543
CALIF	11,893	11,701	11,821	11,773	35	125,777	33	136,956
CONN	711	710	673	749	9	4,607	9	6,502
IDAHO	8,921	7,810	8,119	8,406	14	87,789	14	92,811
ILL	7,026	7,510	6,893	7,461	27	91,201	24	90,213
IND	2,230	2,288	2,268	2,440	5	31,790	5	31,245
IOWA	12,312	14,291	14,779	15,355	20	174,854	16	178,951
KANS	1,477	1,759	1,574	2,177	10	28,150	10	25,616
KY	5,137	4,850	4,017	4,755	12	69,600	12	67,218
MASS	659	480	656	860	9	5,786	12	7,780
MICH	2,553	2,720	2,550	2,521	16	32,831	15	32,001
MINN	30,703	36,555	38,211	42,179	30	410,628	31	451,569
MISS	258	279	277	927	4	10,425	4	9,789
MO	4,709	5,103	9,146	8,523	13	72,671	14	85,297
NEBR	4,583	4,741	4,800	5,242	14	57,445	13	59,245
N J	2,009	2,062	2,244	2,471	7	15,492	7	21,788
N Y	23,570	24,164	25,524	24,781	49	260,327	49	282,927
N DAK	3,302	3,184	3,121	3,359	14	53,443	13	49,776
OHIO	6,938	7,480	6,969	8,179	23	77,948	23	87,848
OREG	2,270	2,218	2,261	2,305	6	26,762	5	27,439
PA	6,880	7,588	6,618	7,772	23	93,706	23	95,617
S DAK	4,734	4,814	4,709	5,359	18	65,861	17	63,604
TENN	2,130	2,113	1,864	2,353	10	38,756	10	30,390
TEX	87	252	862	1,476	4	17,751	4	12,177
UTAH	4,928	4,545	4,393	4,841	10	62,330	10	60,464
VT	4,838	4,851	4,975	5,667	11	57,290	13	67,388
WASH	3,244	3,482	3,397	3,643	6	33,562	8	40,836
WIS	102,692	106,668	102,420	109,355	368	1,278,890	353	1,332,005
OTHER 1/	2,952	3,976	3,689	5,328	25	59,810	27	56,343
U S	264,992	279,331	279,657	301,387	796	3,358,535	778	3,519,338

TABLE 11--BRICK CHEESE
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL			
	SEP	OCT	NOV	DEC	1977		1978	
					PLANTS	PRODUCTION	PLANTS	PRODUCTION
1,000 POUNDS				NUMBER 1,000 LBS		NUMBER 1,000 LBS		
OHIO 1/					3	203		
WIS	853	1,025	915	1,026	36	10,487	33	11,990
OTHER 1/	444	339	316	429	13	5,197	18	4,893
U S	1,297	1,364	1,231	1,455	52	15,887	51	16,883

1/ STATES NOT SHOWN WHEN LESS THAN 3 PLANTS REPORTED OR INDIVIDUAL PLANT OPERATIONS MIGHT BE DISCLOSED.

TABLE 12--TOTAL AMERICAN TYPE CHEESE 1/
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1,000 POUNDS								
ARK	363	563	711	907	1,079	1,033	812	642
CALIF	1,152	936	1,202	1,331	1,423	1,335	1,455	1,375
IDAHO	4,723	4,686	5,705	5,414	6,052	6,619	5,948	5,950
ILL	390	400	685	529	428	463	564	741
IND	1,779	1,699	2,361	2,566	2,861	2,666	2,631	2,629
IOWA	6,550	6,380	7,338	8,569	9,511	9,621	8,542	7,171
KANS	1,318	1,324	2,069	2,520	2,894	2,736	2,498	2,065
KY	3,233	3,114	3,596	4,377	5,017	4,758	4,552	4,053
MICH	1,448	1,414	1,684	1,597	1,893	2,171	1,871	1,866
MINN	30,815	30,458	35,110	34,136	36,318	35,305	27,661	27,149
MISS	493	718	1,275	1,584	1,319	1,007	822	710
MO	3,620	3,170	3,552	4,930	5,885	5,590	4,510	4,633
NEBR	2,890	2,363	2,221	2,506	3,061	3,433	3,212	2,571
N Y	5,888	6,570	7,160	7,936	9,055	8,686	7,485	6,416
N DAK	3,990	3,746	4,208	4,295	5,259	5,890	5,215	4,207
OHIO	2,275	1,837	2,117	2,679	3,255	3,535	2,764	2,218
OREG	2,092	1,816	2,118	2,344	2,486	2,430	2,531	2,478
PA	3,529	3,051	3,631	3,380	3,450	3,257	2,257	3,074
S DAK	3,479	3,212	3,745	3,681	4,120	4,065	3,708	3,458
TENN	1,157	1,002	1,094	1,928	2,478	1,987	1,722	1,844
UTAH	3,031	2,806	2,962	3,467	4,232	4,473	4,088	3,510
VT	1,614	1,513	2,022	2,167	2,147	2,463	2,215	2,082
WASH 2/	1,668	1,441	1,645	2,023	2,504	2,204	2,170	2,153
WIS	69,891	66,697	79,731	78,845	85,837	86,290	77,418	70,541
OTHER 2/	3,670	3,290	4,626	5,911	6,155	6,027	2,907	2,084
U S	161,058	154,206	182,568	189,622	208,719	208,044	179,558	165,620

TABLE 13--MUNSTER CHEESE
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1,000 POUNDS								
IDAHO 2/								
ILL	362	344	415	376	441	470	403	432
WIS	3,620	3,184	3,930	4,004	3,981	4,287	3,928	3,846
OTHER 2/	802	567	607	544	616	817	614	676
U S	4,784	4,095	4,952	4,924	5,038	5,574	4,945	4,954

SEE FOOTNOTES ON PAGE 19.

TABLE 12--TOTAL AMERICAN TYPE CHEESE 1/
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL			
	SEP	OCT	NOV	DEC	1977		1978	
	1,000 POUNDS				PLANTS	PRODUCTION	PLANTS	PRODUCTION
					NUMBER	1,000 LBS	NUMBER	1,000 LBS
ARK	832	902	359	555	4	8,264	4	8,758
CALIF	1,303	1,279	1,229	1,352	14	12,366	13	15,372
IDAHO	6,234	5,479	5,224	5,947	14	62,904	13	67,981
ILL	680	522	681	605	13	12,395	9	6,688
IND	2,230	2,288	2,268	2,440	4	28,426	4	28,418
IOWA	5,593	6,871	7,321	7,834	17	95,137	13	91,301
KANS	1,320	1,572	1,377	1,990	9	26,448	9	23,683
KY	3,300	3,153	2,233	3,055	9	49,121	8	44,441
MICH	1,617	1,812	1,721	1,702	10	19,046	9	20,796
MINN	25,189	31,394	31,972	36,090	21	344,573	20	381,597
MISS	243	264	262	912	4	10,277	4	9,609
MO	3,380	3,607	3,488	3,556	12	49,588	13	49,921
NEBR	1,961	1,808	1,669	1,753	10	30,841	8	29,448
N Y	6,154	5,464	4,830	6,122	16	78,907	16	81,766
N DAK	3,302	3,184	3,121	3,359	14	53,443	13	49,776
OHIO	1,952	2,297	2,149	2,802	7	27,774	7	29,880
OREG	2,262	2,204	2,251	2,298	6	26,670	5	27,310
PA	2,550	2,638	1,884	2,705	3	36,233	3	35,406
S DAK	3,156	3,238	3,219	3,646	16	41,822	15	42,727
TENN	1,355	1,393	1,208	1,724	11	20,509	9	18,892
UTAH	3,202	2,759	2,693	3,092	10	43,140	10	40,315
VT	1,634	1,598	1,614	1,776	8	17,485	9	22,845
WASH 2/	1,863	1,912	2,089	2,266			5	23,938
WIS	63,581	66,478	63,745	68,172	281	869,291	268	877,226
OTHER 2/	1,483	2,611	2,824	4,520	23	78,403	20	46,108
U S	146,376	156,727	151,431	170,273	536	2,043,063	507	2,074,202

TABLE 13--MUNSTER CHEESE
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL			
	SEP	OCT	NOV	DEC	1977		1978	
	1,000 POUNDS				PLANTS	PRODUCTION	PLANTS	PRODUCTION
					NUMBER	1,000 LBS	NUMBER	1,000 LBS
IDAHO 2/					3	485		
ILL	349	396	326	355	7	4,354	5	4,669
WIS	3,905	4,120	3,921	4,224	51	43,891	51	46,950
OTHER 2/	563	502	572	814	7	6,689	9	7,694
U S	4,817	5,018	4,819	5,393	68	55,419	65	59,313

1/ INCLUDES CHEDDAR, COLBY, WASHED CURD, STIRRED CURD, MONTEREY AND JACK.
2/ STATES NOT SHOWN WHEN LESS THAN 3 PLANTS REPORTED OR INDIVIDUAL PLANT OPERATIONS MIGHT BE DISCLOSED.

TABLE 14--CHEDDAR CHEESE
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1,000 POUNDS								
CALIF	506	394	463	630	506	534	564	548
IDAHO	2,032	1,788	2,352	2,014	1,977	2,586	2,163	2,555
ILL	29	46	44	50	58	140	50	44
IOWA	3,674	3,741	4,078	5,209	6,171	5,839	5,118	3,949
MINN	22,107	22,281	25,490	24,711	26,513	25,711	21,242	19,754
MISS	493	718	1,275	1,584	1,319	1,007	822	710
MO 1/	2,793	2,481	2,781	3,563	4,798	4,554	3,565	3,832
NEBR	1,072	1,000	873	954	1,168	1,318	1,272	948
N Y	5,552	6,272	6,802	7,629	8,667	8,264	7,052	6,007
S DAK	3,042	1,400	1,715	1,741	2,062	3,698	3,340	1,812
TENN	858	631	804	1,457	2,085	1,383	1,233	1,172
UTAH	2,632	2,245	2,536	3,034	3,729	3,956	3,497	2,796
WIS	57,910	53,877	64,387	64,230	71,088	70,984	63,181	55,407
OTHER 1/	17,800	15,600	19,079	23,897	25,242	25,452	20,878	17,110
U S	120,500	112,474	132,679	140,703	155,383	155,426	133,977	116,644

TABLE 15--BLUE CHEESE 2/
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1,000 POUNDS								
WIS	1,902	1,633	1,845	1,801	1,985	1,976	1,807	1,664
OTHER 1/	1,308	1,140	1,247	1,183	1,252	1,255	1,190	1,125
U S	3,210	2,773	3,092	2,984	3,237	3,231	2,997	2,789

SEE FOOTNOTES ON PAGE 21.

TABLE 14--CHEDDAR CHEESE
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL			
	SEP	OCT	NOV	DEC	1977		1978	
	1,000 POUNDS				PLANTS	PRODUCTION	PLANTS	PRODUCTION
					NUMBER	1,000 LBS	NUMBER	1,000 LBS
CALIF	526	478	418	538	13	4,908	10	6,105
IDAHO	2,594	2,133	1,999	2,624	12	28,279	11	26,817
ILL	3	6	6	248	6	4,671	6	724
IOWA	3,211	4,215	4,640	5,121	17	59,859	13	54,966
MINN	17,809	22,030	23,123	26,245	18	261,567	17	277,016
MISS	243	264	262	912	4	10,277	4	9,609
MO 1/	2,816	2,724	2,811	2,618			12	39,336
NEBR	515	362	297	303	9	11,790	6	10,082
N Y	5,805	5,041	4,430	5,708	15	74,459	15	77,229
S DAK	1,597	1,647	1,592	1,792	16	37,161	14	25,438
TENN	907	1,061	969	1,527	8	16,049	7	14,087
UTAH	2,502	2,104	2,222	2,610	10	35,863	10	33,863
WIS	50,191	52,128	49,431	52,993	245	692,442	226	705,807
OTHER 1/	13,380	14,590	14,335	17,080	89	280,216	79	224,443
U S	102,099	108,783	106,535	120,319	462	1,517,541	430	1,505,522

TABLE 15--BLUE CHEESE 2/
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL			
	SEP	OCT	NOV	DEC	1977		1978	
	1,000 POUNDS				PLANTS	PRODUCTION	PLANTS	PRODUCTION
					NUMBER	1,000 LBS	NUMBER	1,000 LBS
WIS	1,671	1,806	1,580	1,690	4	20,718	4	21,360
OTHER 1/	1,078	1,155	981	1,073	7	14,058	7	13,987
U S	2,749	2,961	2,561	2,763	11	34,776	11	35,347

1/ STATES NOT SHOWN WHEN LESS THAN 3 PLANTS REPORTED OR INDIVIDUAL PLANT OPERATIONS MIGHT BE DISCLOSED.

2/ INCLUDES GORGONZOLA.

TABLE 16--OTHER AMERICAN VARIETIES OF CHEESE 1/
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1,000 POUNDS								
CALIF	646	542	739	701	917	801	891	827
IDAHO	2,691	2,898	3,353	3,400	4,075	4,033	3,785	3,395
ILL	361	354	641	479	370	323	514	697
IOWA	2,876	2,639	3,260	3,360	3,340	3,782	3,424	3,222
MINN	8,708	8,177	9,620	9,425	9,805	9,594	6,419	7,395
MO 2/	827	689	771	1,367	1,087	1,036	945	801
NEBR	1,818	1,363	1,348	1,552	1,893	2,115	1,940	1,623
N Y	336	298	358	307	388	422	433	409
S DAK	437	1,812	2,030	1,940	2,058	367	368	1,646
TENN	299	371	290	471	393	604	489	672
UTAH	399	561	426	433	503	517	591	714
WIS	11,981	12,820	15,344	14,615	14,749	15,306	14,237	15,134
OTHER 2/	9,179	9,208	11,709	10,869	13,758	13,718	11,548	12,441
U S	40,558	41,732	49,889	48,919	53,336	52,618	45,581	48,976

TABLE 17--CREAM CHEESE
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1,000 POUNDS								
CALIF	392	703	1,055	524	751	812	660	670
N Y	4,309	3,291	7,374	3,678	3,710	5,187	3,182	4,651
PA	880	722	948	858	862	983	630	866
OTHER 2/	6,221	8,484	11,077	5,792	7,926	8,792	7,264	7,759
U S	11,802	13,200	20,454	10,852	13,249	15,774	11,736	13,886

SEE FOOTNOTES ON PAGE 23.

TABLE 16--OTHER AMERICAN VARIETIES OF CHEESE 1/
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL			
	SEP	OCT	NOV	DEC	1977		1978	
					PLANTS	PRODUCTION	PLANTS	PRODUCTION
1,000 POUNDS				NUMBER 1,000 LBS		NUMBER 1,000 LBS		
CALIF	777	801	811	814	14	7,458	12	9,267
IDAHO	3,640	3,346	3,225	3,323	11	34,625	11	41,164
ILL	677	516	675	357	10	7,724	9	5,964
IOWA	2,382	2,656	2,681	2,713	7	35,278	8	36,335
MINN	7,380	9,364	8,849	9,845	4	83,006	6	104,581
MO 2/	564	883	677	938			6	10,585
NEBR	1,446	1,446	1,372	1,450	7	19,051	5	19,366
N Y	349	423	400	414	7	4,448	7	4,537
S DAK	1,559	1,591	1,627	1,854	5	4,661	6	17,289
TENN	448	332	239	197	3	4,460	3	4,805
UTAH	700	655	471	482	5	7,277	5	6,452
WIS	13,390	14,350	14,314	15,179	109	176,849	101	171,419
OTHER 2/	10,965	11,581	9,555	12,388	52	140,685	47	136,916
U S	44,277	47,944	44,896	49,954	234	525,522	226	568,680

TABLE 17--CREAM CHEESE
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL			
	SEP	OCT	NOV	DEC	1977		1978	
					PLANTS	PRODUCTION	PLANTS	PRODUCTION
1,000 POUNDS				NUMBER 1,000 LBS		NUMBER 1,000 LBS		
CALIF	742	922	1,392	867	5	8,602	4	9,490
N Y	5,941	6,772	8,100	5,049	4	53,396	5	61,244
PA	810	908	938	969	3	10,557	3	10,314
OTHER 2/	9,662	10,667	15,437	14,206	10	100,565	9	113,287
U S	17,155	19,269	25,867	21,091	22	173,120	21	194,335

1/ INCLUDES COLBY, WASHED CURD, STIRRED CURD, MONTEREY AND JACK. 2/ STATES NOT SHOWN WHEN LESS THAN 3 PLANTS REPORTED OR INDIVIDUAL PLANT OPERATIONS MIGHT BE DISCLOSED.

TABLE 18--ITALIAN CHEESE, TOTAL
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1,000 POUNDS								
CALIF	8,317	7,544	9,147	8,423	8,669	8,867	9,239	9,822
CONN	422	417	564	317	391	461	476	603
ILL	1,971	1,829	2,209	1,953	2,245	2,154	2,011	2,286
MASS	478	459	869	580	514	327	279	557
MINN	4,724	4,808	5,652	5,102	4,610	3,840	4,092	4,608
NEBR	2,284	2,045	2,450	2,182	2,307	1,823	1,910	2,615
N J	1,548	1,909	2,481	1,163	1,520	1,380	1,428	1,573
N Y	10,438	9,506	12,225	9,771	10,513	9,685	9,285	10,673
PA	2,859	2,981	3,908	3,129	3,697	3,467	3,234	3,324
VT	2,084	1,902	2,123	2,197	2,384	2,389	2,113	2,335
WASH	1,247	1,100	1,400	1,383	1,800	1,346	1,570	1,416
WIS	21,456	20,226	24,127	23,009	25,282	24,425	22,853	24,548
OTHER 1/	10,498	9,899	11,716	11,695	12,717	12,873	11,152	10,418
U S	68,326	64,625	78,871	70,904	76,649	73,037	69,642	74,778

TABLE 19--MOZZARELLA AND SIMILARS
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1,000 POUNDS								
CALIF	7,535	6,688	8,199	7,673	7,863	8,152	8,527	9,015
CONN	211	265	295	161	218	236	204	264
ILL	850	719	959	932	1,044	1,004	946	1,177
MASS	229	236	498	379	290	94	106	317
MINN 1/	2,967	3,158	3,848	3,209	2,639	1,961	2,231	2,734
NEBR	2,036	1,840	2,275	1,991	2,061	1,678	1,725	2,468
N Y	7,315	6,032	6,752	6,935	6,843	6,592	6,502	7,267
PA	1,981	1,862	2,408	2,237	2,416	2,367	2,237	2,244
WIS	13,061	12,470	15,170	14,415	15,464	14,898	13,591	14,946
OTHER 1/	10,639	10,116	11,803	11,598	12,998	12,692	12,050	11,503
U S	46,824	43,386	52,207	49,530	51,836	49,674	48,119	51,935

SEE FOOTNOTES ON PAGE 25.

TABLE 18--ITALIAN CHEESE, TOTAL
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL			
	SEP	OCT	NOV	DEC	1977		1978	
	1,000 POUNDS				PLANTS	PRODUCTION	PLANTS	PRODUCTION
	1,000 POUNDS				NUMBER 1,000 LBS		NUMBER 1,000 LBS	
CALIF	9,347	8,982	8,679	9,030	11	98,842	13	106,066
CONN	709	709	671	747	8	4,592	8	6,487
ILL	2,132	3,313	2,313	2,424	9	24,896	9	26,840
MASS	536	351	571	729	7	3,967	8	6,250
MINN	4,574	4,288	5,447	4,937	6	52,389	6	56,682
NEBR	2,622	2,933	3,131	3,489	6	26,597	7	29,791
N J	2,009	2,062	2,244	2,471	7	15,492	7	21,788
N Y	10,283	10,800	11,435	12,341	26	117,229	28	126,955
PA	2,900	3,385	3,249	3,435	14	35,657	14	39,568
VT	2,121	2,330	2,367	2,432	6	23,387	6	26,777
WASH	1,381	1,570	1,308	1,377	3	15,370	3	16,898
WIS	24,018	24,009	23,491	25,173	54	243,469	55	282,617
OTHER 1/	9,485	9,299	8,848	9,991	29	131,602	28	128,591
U S	72,117	74,031	73,754	78,576	186	793,489	192	875,310

TABLE 19--MOZZARELLA AND SIMILARS
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL			
	SEP	OCT	NOV	DEC	1977		1978	
	1,000 POUNDS				PLANTS	PRODUCTION	PLANTS	PRODUCTION
	1,000 POUNDS				NUMBER 1,000 LBS		NUMBER 1,000 LBS	
CALIF	8,514	8,133	7,814	8,152	8	89,594	10	96,265
CONN	321	306	277	267	7	2,632	7	3,025
ILL	1,056	2,163	1,130	1,094	8	11,265	8	13,074
MASS	305	134	308	448	5	1,512	7	3,344
MINN 1/	2,751	2,491	3,491	2,827			5	34,307
NEBR	2,503	2,781	3,015	3,185	5	24,148	6	27,558
N Y	6,790	7,095	7,006	7,756	17	75,026	20	82,885
PA	1,893	2,216	2,124	2,255	11	23,844	11	26,240
WIS	14,689	15,004	14,658	14,890	39	147,929	40	173,256
OTHER 1/	11,461	11,614	11,099	11,659	43	168,085	37	139,232
U S	50,283	51,937	50,922	52,533	143	544,035	151	599,186

1/ STATES NOT SHOWN WHEN LESS THAN 3 PLANTS REPORTED OR INDIVIDUAL PLANT OPERATIONS MIGHT BE DISCLOSED.

TABLE 20--OTHER ITALIAN TYPES
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1,000 POUNDS								
CALIF	782	856	948	750	806	715	712	807
CONN	211	152	269	156	173	225	272	339
ILL	1,121	1,110	1,250	1,021	1,201	1,150	1,065	1,109
MASS	249	223	371	201	224	233	173	240
MINN 1/	1,757	1,650	1,804	1,893	1,971	1,879	1,861	1,874
NEBR	248	205	175	191	246	145	185	147
N Y	3,123	3,474	5,473	2,836	3,670	3,093	2,783	3,406
PA	878	1,119	1,500	892	1,281	1,100	997	1,080
WIS	8,395	7,756	8,957	8,594	9,818	9,527	9,262	9,602
OTHER 1/	4,738	4,694	5,917	4,840	5,423	5,296	4,213	4,239
U.S.	21,502	21,239	26,664	21,374	24,813	23,363	21,523	22,843

SEE FOOTNOTES ON PAGE 27.

TABLE 21--ITALIAN CHEESE PRODUCTION IN THE UNITED STATES, 1977 AND 1978
A. BY MAJOR TYPES

TYPES	1977	1978	1978 AS % OF 1977
1,000 POUNDS			
PERCENT			
HARD:			
PROVOLONE AND SIMILARS	73,872	78,914	107
ROMANO AND SIMILARS	20,537	26,097	127
PARMESAN AND SIMILARS	53,175	56,919	107
OTHER HARD	6,975	10,050	144
TOTAL HARD	154,559	171,980	111
SOFT:			
MOZZARELLA AND SIMILARS	544,035	599,186	110
RICOTTA AND SIMILARS	89,680	98,425	110
OTHER SOFT	5,215	5,719	110
TOTAL SOFT	638,930	703,330	110
TOTAL HARD AND SOFT	793,489	875,310	110

B. BY REGIONS

REGION	HARD TYPES		SOFT TYPES		TOTAL (HARD AND SOFT)	
	1977	1978	1977	1978	1977	1978
1,000 POUNDS						
NORTH AND SOUTH ATLANTIC	4,930	6,106	198,459	225,117	203,389	231,223
EAST NORTH CENTRAL	108,050	120,244	177,669	206,019	285,719	326,263
WEST NORTH CENTRAL	33,069	36,424	118,919	116,473	151,988	152,897
SOUTH CENTRAL	5,631	6,436	20,917	22,455	26,548	28,891
WEST	2,879	2,770	122,966	133,266	125,845	136,036
U.S.	154,559	171,980	638,930	703,330	793,489	875,310

TABLE 20--OTHER ITALIAN TYPES
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL			
	SEP	OCT	NOV	DEC	1977		1978	
	1,000 POUNDS				PLANTS	PRODUCTION	PLANTS	PRODUCTION
					NUMBER	1,000 LBS	NUMBER	1,000 LBS
CALIF	833	849	865	878	7	9,248	8	9,801
CONN	388	403	394	480	8	1,960	8	3,462
ILL	1,076	1,150	1,183	1,330	6	13,631	5	13,766
MASS	231	217	263	281	5	2,455	5	2,906
MINN 1/	1,823	1,797	1,956	2,110			3	22,375
NEBR	119	152	116	304	3	2,449	5	2,233
N Y	3,493	3,705	4,429	4,585	22	42,203	22	44,070
PA	1,007	1,169	1,125	1,180	14	11,813	14	13,328
WIS	9,329	9,005	8,833	10,283	34	95,540	35	109,361
OTHER 1/	3,535	3,647	3,668	4,612	31	70,155	28	54,822
U S	21,834	22,094	22,832	26,043	130	249,454	133	276,124

1/ STATES NOT SHOWN WHEN LESS THAN 3 PLANTS REPORTED OR INDIVIDUAL PLANT OPERATIONS MIGHT BE DISCLOSED.

TABLE 22--CHEESE, PROCESSED, CHEESE FOODS, SPREADS, AND
COLD PACK: PRODUCTION, UNITED STATES, 1971-78 1/ 2/

YEAR	PROCESSED CHEESE		PROCESSED CHEESE		COLD PACK CHEESE		TOTAL		
	PLANTS	PRODUCTION	EQDS & SPREADS 3/	PLANTS	PRODUCTION	PLANTS	PRODUCTION	PLANTS	PRODUCTION
	NUMBER 1,000 LBS.		NUMBER 1,000 LBS.		NUMBER 1,000 LBS.		NUMBER 1,000 LBS.		
1971	41	750,772	37	479,553			52	1,230,325	
1972	42	748,929	43	550,464			53	1,299,393	
1973	31	707,874	32	538,139	19	30,696	50	1,276,709	
1974	36	745,562	36	593,537	19	30,588	53	1,369,687	
1975	38	726,767	36	682,895	22	39,535	54	1,449,197	
1976	35	845,201	34	526,581	24	38,467	57	1,410,249	
1977	35	814,039	31	671,340	27	40,991	59	1,526,370	
1978	34	861,034	32	690,705	26	48,004	59	1,599,743	

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, ETC.
2/ EXCLUDES SPREADS MADE FROM NEUFCHATEL AND CREAM CHEESE.
3/ PRIOR TO 1973, COLD PACK WAS INCLUDED IN PROCESSED CHEESE FOODS AND SPREADS.

TABLE 23--ALL OTHER TYPES OF CHEESE 1/
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1,000 POUNDS								
CALIF	468	443	562	498	466	441	497	579
IDAHO 2/								
MASS 2/	142	105	111	121	119	108	114	106
MINN	62	54	67	65	63	59	57	57
MISS 4/	15	15	15	15	15	15	15	15
WIS	999	1,376	1,358	1,347	1,458	1,459	1,192	1,650
OTHER 2/	1,447	1,409	1,413	1,472	1,547	1,711	1,429	1,631
U S	3,133	3,402	3,526	3,518	3,668	3,793	3,304	4,038

TABLE 24--LOWFAT COTTAGE CHEESE 3/
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1,000 POUNDS								
ALA 2/								
CALIF	3,765	3,489	4,097	3,903	4,361	4,003	3,693	3,897
COLO	371	425	450	479	521	493	487	486
IDAHO 4/	64	59	75	68	73	70	67	71
ILL	105	98	125	125	141	122	112	126
IND	16	27	29	26	32	21	13	12
KANS	139	132	145	142	155	140	174	159
MICH	116	101	143	115	128	125	115	133
MINN 2/	430	428	475	464	486	451	260	390
N Y	1,638	1,275	1,960	1,547	2,041	1,959	1,547	1,786
N C	78	87	105	97	92	98	74	98
N DAK 4/	101	113	153	119	144	134	120	117
OHIO	884	953	1,205	1,032	1,246	1,171	1,015	1,108
OKLA	153	152	207	172	184	193	173	170
OREG	95	96	102	81	109	106	96	97
PA	1,254	1,194	1,397	1,380	1,324	1,313	1,251	1,398
TENN 2/								
TEX	356	341	428	388	441	376	358	445
WASH	597	572	656	693	716	624	609	633
WIS	371	467	498	434	493	452	431	371
OTHER 2/	1,567	1,535	1,924	1,679	1,755	1,746	1,715	1,737
U S	12,100	11,544	14,174	12,944	14,442	13,597	12,310	13,234

SEE FOOTNOTES ON PAGE 29.

TABLE 23--ALL OTHER TYPES OF CHEESE 1/
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL			
	SEP	OCT	NOV	DEC	1977 PLANTS	1977 PRODUCTION	1978 PLANTS	1978 PRODUCTION
	1,000 POUNDS				NUMBER 1,000 LBS		NUMBER 1,000 LBS	
CALIF	499	518	521	524	15	5,957	13	6,016
IDAHO 2/					3	573		
MASS 2/	103	114	66	112			5	1,321
MINN	53	54	57	60	7	325	7	708
MISS 4/	15	15	15	15	1	148	1	180
WIS	1,442	1,751	1,808	1,512	15	18,212	16	17,352
OTHER 2/	1,546	1,652	1,638	1,722	32	19,173	31	18,617
U S	3,658	4,104	4,105	3,945	73	44,388	73	44,194

TABLE 24--LOWFAT COTTAGE CHEESE 3/
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL			
	SEP	OCT	NOV	DEC	1977 PLANTS	1977 PRODUCTION	1978 PLANTS	1978 PRODUCTION
	1,000 POUNDS				NUMBER 1,000 LBS		NUMBER 1,000 LBS	
ALA 2/					3	738		
CALIF	3,817	3,946	3,520	3,156	10	43,173	10	45,647
COLO	364	475	466	388	3	4,659	3	5,405
IDAHO 4/	58	59	54	51	2	812	2	769
ILL	113	67	78	64	6	1,392	5	1,276
IND	9	12	10	8	5	320	4	215
KANS	141	149	152	123	6	1,610	6	1,751
MICH	107	95	96	82	6	1,267	7	1,356
MINN 2/	380	379	383	334			3	4,860
N Y	1,906	1,516	1,175	1,395	5	18,001	6	19,745
N C	94	70	70	64	4	1,147	4	1,027
N DAK 4/	108	109	110	89	1	944	1	1,417
OHIO	1,052	946	974	794	17	11,756	15	12,380
OKLA	183	164	145	135	6	1,887	7	2,031
OREG	93	94	85	77	7	1,061	8	1,131
PA	1,218	1,273	1,212	1,091	9	14,987	9	15,305
TENN 2/					3	632		
TEX	419	347	339	282	10	4,539	9	4,520
WASH	593	575	610	620	11	6,342	9	7,498
WIS	391	369	449	407	8	4,456	7	5,133
OTHER 2/	1,727	1,675	1,498	1,350	39	19,284	43	19,908
U S	12,773	12,320	11,426	10,510	161	139,007	158	151,374

1/ INCLUDES FULL-SKIM TYPE CHEESE BEGINNING 1974.

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.

4/ DATA FOR LESS THAN 3 PLANTS PUBLISHED BY PERMISSION OF THE FIRMS INVOLVED.

TABLE 25--CREAMED COTTAGE CHEESE 1/
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1,000 POUNDS								
ALA	143	135	133	142	122	131	134	141
ARIZ 2/								
CALIF	8,299	7,760	8,833	8,437	9,193	8,810	8,496	8,780
COLO	1,051	965	1,247	1,240	1,325	1,386	1,296	1,369
GA 2/								
IDAHO	257	244	225	268	280	310	282	302
ILL	2,986	3,153	3,539	3,431	3,555	3,332	3,357	3,567
IND	2,230	2,530	2,867	2,729	2,922	2,901	2,598	2,608
IOWA	1,062	1,033	1,249	1,138	1,206	1,318	1,455	1,337
KANS	1,761	1,702	2,030	1,760	1,937	1,850	1,827	1,847
KY	475	595	618	559	620	541	537	592
MAINE	1,671	1,543	1,317	1,787	1,893	1,595	1,632	1,559
MICH	4,166	4,264	4,974	4,341	4,499	4,644	4,507	4,863
MINN	1,134	1,133	1,319	1,210	1,255	1,153	667	1,048
MO	2,250	2,158	2,659	2,674	2,644	2,517	2,459	2,518
MONT	311	286	335	300	346	358	322	337
NEBR	952	872	1,027	900	972	996	896	1,002
N MEX	770	670	845	800	832	837	803	572
N Y	10,254	10,022	10,970	10,803	12,551	11,451	11,309	11,509
N C	404	410	495	469	484	505	564	677
N DAK 3/	264	254	317	279	313	302	278	294
OHIO	4,723	5,744	6,409	5,938	6,414	6,104	5,768	6,043
OKLA	686	673	837	796	853	920	1,004	1,142
OREG	1,426	1,352	1,746	1,531	1,561	1,567	1,401	1,664
PA	3,346	3,856	4,334	4,287	4,408	4,140	3,681	3,974
TENN	515	538	623	612	603	609	613	651
TEX	1,931	1,914	2,306	2,099	2,281	2,175	1,964	2,198
UTAH	635	621	744	550	595	547	548	591
VT	1,297	1,119	1,201	1,245	1,483	1,458	1,479	1,307
VA	444	463	548	515	541	543	504	488
WASH	2,571	2,500	2,771	2,290	2,756	2,675	2,419	2,588
W VA	197	212	248	240	253	248	229	244
WIS	5,082	5,675	6,212	5,726	6,066	5,870	5,733	5,738
OTHER 2/	5,084	5,305	6,293	5,113	5,513	5,380	4,975	5,245
U S	68,377	69,701	79,271	74,209	80,276	77,173	73,737	76,795

SEE FOOTNOTES ON PAGE 31.

TABLE 25--CREAMED COTTAGE CHEESE 1/
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL			
	SEP	OCT	NOV	DEC	PLANTS	PRODUCTION	PLANTS	PRODUCTION
	1,000 POUNDS				NUMBER 1,000 LBS		NUMBER 1,000 LBS	
ALA	134	146	102	133	4	1,596	4	1,596
ARIZ 2/					3	12,164		
CALIF	8,407	8,970	7,770	6,980	14	103,464	13	100,735
COLO	1,156	1,279	1,128	973	7	12,670	7	14,415
GA 2/					3	1,642		
IDAHO	262	248	243	221	3	3,241	3	3,142
ILL	3,341	2,703	2,383	2,170	10	41,029	8	37,517
IND	2,169	2,238	2,002	1,595	13	32,690	11	29,389
IOWA	1,308	1,264	1,220	1,029	8	14,290	6	14,619
KANS	1,811	1,771	1,746	1,501	10	21,217	9	21,543
KY	593	617	499	446	3	6,286	3	6,692
MAINE	1,511	1,433	1,414	1,216	6	19,580	7	18,571
MICH	4,758	4,665	4,177	3,724	14	55,878	13	53,582
MINN	1,141	1,145	1,055	929	4	16,458	4	13,189
MO	2,452	2,503	2,335	2,198	5	28,284	6	29,367
MONT	294	355	341	310	7	3,651	8	3,895
NEBR	921	888	864	784	9	11,203	8	11,074
N MEX	621	728	738	673	3	7,885	3	8,889
N Y	11,172	10,507	9,978	9,120	16	128,892	15	129,646
N C	686	576	559	468	6	5,725	5	6,297
N DAK 3/	256	279	273	212	2	2,612	2	3,321
OHIO	5,342	5,453	5,618	4,959	30	69,089	27	68,515
OKLA	1,046	983	955	827	9	8,698	9	10,722
OREG	1,440	1,463	1,399	1,286	13	15,898	13	17,836
PA	3,676	3,735	3,469	3,079	26	48,220	20	45,985
TENN	552	595	555	495	6	6,831	7	6,961
TEX	2,041	2,029	1,883	1,649	14	24,165	14	24,470
UTAH	511	547	523	459	5	7,658	5	6,871
VT	1,144	1,068	939	924	4	14,483	5	14,664
VA	599	587	442	452	6	5,569	5	6,126
WASH	2,395	2,386	2,165	1,912	16	30,275	16	29,428
W VA	219	216	173	195	5	2,992	3	2,674
WIS	5,376	5,731	6,076	5,332	11	62,988	11	68,617
OTHER 2/	5,065	4,895	4,778	4,300	21	50,655	28	61,946
U S	72,399	72,003	67,802	60,551	316	877,978	298	872,294

1/ MILKFAT CONTENT 4.0 PERCENT OR MORE. 2/ STATES NOT SHOWN WHEN LESS THAN 3 PLANTS REPORTED OR INDIVIDUAL PLANT OPERATIONS MIGHT BE DISCLOSED. 3/ DATA FOR LESS THAN 3 PLANTS PUBLISHED BY PERMISSION OF THE FIRMS INVOLVED.

TABLE 26--COTTAGE CHEESE CURD 1/
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
	1,000 POUNDS							
ALA	164	158	178	177	169	167	155	163
ARIZ 2/								
ARK 2/								
CALIF	8,555	8,049	9,127	8,767	9,522	8,961	8,499	9,048
COLO	1,009	877	1,068	1,092	1,170	1,191	1,136	1,168
CONN 2/								
GA 2/								
IDAHO	186	177	174	210	209	223	212	224
ILL	2,515	2,455	2,782	2,628	2,716	2,633	2,476	2,642
IND	1,356	1,536	1,743	1,664	1,793	1,737	1,572	1,567
IOWA	731	709	858	778	837	813	955	879
KANS	1,162	1,149	1,341	1,187	1,234	1,276	1,170	1,176
MAINE	1,261	1,167	998	1,352	1,435	1,209	1,235	1,180
MICH	2,737	2,747	3,284	2,807	3,079	2,961	2,888	3,199
MINN	923	913	999	981	1,039	938	558	834
MO	1,505	1,402	1,734	1,441	1,641	1,452	1,574	2,697
MONT	211	177	206	183	211	219	195	207
NEBR	565	502	618	541	578	591	536	590
N MEX	485	430	530	495	521	503	475	423
N Y	8,110	7,741	8,839	8,520	10,035	9,110	8,732	8,990
N C	312	316	383	367	355	358	393	456
N DAK 3/	233	231	299	250	288	255	246	256
OHIO	3,601	4,268	4,926	4,436	4,856	4,542	4,310	4,534
OKLA	519	519	650	586	622	660	697	772
OREG	840	779	1,053	929	1,003	953	848	1,095
PA	2,945	3,230	3,593	3,602	3,805	3,545	3,243	3,519
TENN	345	392	428	435	412	421	462	434
TEX	1,406	1,412	1,665	1,508	1,612	1,510	1,372	1,561
UTAH	492	495	583	433	470	424	415	444
VT	1,417	1,213	1,337	1,306	1,502	1,502	1,437	1,519
VA	438	427	527	473	503	472	465	465
WASH	1,950	1,925	2,187	2,237	2,265	2,109	1,924	2,011
W VA	136	140	170	160	174	160	152	163
WIS	3,506	3,825	4,261	3,877	4,165	3,861	3,835	3,797
OTHER 2/	5,018	5,383	6,112	5,531	5,404	4,924	5,090	5,564
U S	54,633	54,744	62,653	58,953	63,625	59,680	57,257	61,577

SEE FOOTNOTES ON PAGE 33.

TABLE 26--COTTAGE CHEESE CURD 1/
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL			
	SEP	OCT	NOV	DEC	1977 PLANTS	1977 PRODUCTION	1978 PLANTS	1978 PRODUCTION
	1,000 POUNDS				NUMBER	1,000 LBS	NUMBER	1,000 LBS
ALA	159	158	114	164	5	2,065	3	1,926
ARIZ 2/					3	9,010		
ARK 2/					4	1,073		
CALIF	8,751	9,122	7,892	7,164	13	104,838	12	103,457
COLO	947	1,114	1,001	847	7	10,785	7	12,620
CONN 2/					4	5,125		
GA 2/					3	1,532		
IDAHO	201	190	180	167	3	2,335	3	2,353
ILL	2,559	2,195	2,037	1,816	11	29,449	9	29,454
IND	1,338	1,366	1,220	1,077	13	20,188	11	17,969
IOWA	828	831	800	644	7	9,656	6	9,663
KANS	1,135	1,128	1,126	966	11	14,193	10	14,050
MAINE	1,143	1,084	1,070	920	9	14,910	9	14,054
MICH	3,041	3,082	2,717	2,619	14	35,054	11	35,161
MINN	897	880	832	739	4	10,774	4	10,533
MO	1,610	1,630	1,442	1,336	6	18,273	6	19,464
MONT	180	219	226	204	7	2,292	8	2,438
NEBR	568	553	520	477	9	6,831	8	6,639
N MEX	371	426	423	397	3	5,025	3	5,479
N Y	8,809	8,144	7,814	7,303	18	101,073	18	102,147
N C	453	387	377	322	6	4,360	6	4,479
N DAK 3/	232	227	247	196	2	2,201	2	2,960
OHIO	4,199	4,201	4,170	3,603	29	51,859	26	51,646
OKLA	692	677	658	568	9	6,537	9	7,620
OREG	869	868	833	717	12	10,024	12	10,787
PA	3,231	3,291	3,056	2,713	25	40,466	19	39,773
TENN	438	416	382	333	6	4,458	7	4,898
TEX	1,502	1,404	1,309	1,158	14	17,964	14	17,419
UTAH	376	404	394	351	5	5,960	5	5,281
VT	1,374	1,367	1,313	1,247	5	16,111	5	16,534
VA	534	528	448	428	6	5,336	5	5,708
WASH	1,926	1,844	1,804	1,694	14	22,734	15	23,876
W VA	148	142	118	127	3	1,902	3	1,790
WIS	3,720	3,995	4,192	3,430	13	42,356	12	46,464
OTHER 2/	4,846	5,296	4,739	3,850	22	47,732	33	61,757
U S	57,077	57,169	53,454	47,577	325	684,481	301	688,399

1/ MOSTLY USED FOR PROCESSING INTO FULLY CREAMED OR LOWFAT COTTAGE CHEESE, COTTAGE CHEESE CURD AND CREAMED AND LOWFAT COTTAGE CHEESE SHOULD NOT BE ADDED TOGETHER TO OBTAIN TOTAL PRODUCTION. 2/ STATES NOT SHOWN WHEN LESS THAN 3 PLANTS REPORTED OR INDIVIDUAL PLANT OPERATIONS MIGHT BE DISCLOSED. 3/ DATA FOR LESS THAN 3 PLANTS PUBLISHED BY PERMISSION OF THE FIRMS INVOLVED.

TABLE 27--CONDENSED MILK, BULK PRODUCTS
 PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
SWEETENED CONDENSED WHOLE MILK 1,000 POUNDS								
WIS	5,076	4,962	4,884	7,350	6,728	5,492	3,593	6,584
OTHER 1/	1,577	1,335	1,231	2,456	1,700	1,331	1,245	1,593
U S	6,653	6,297	6,115	9,806	8,428	6,823	4,838	8,177
SWEETENED CONDENSED SKIM MILK								
WIS	2,366	2,603	2,992	2,843	3,362	3,745	2,497	3,108
OTHER 1/	1,459	658	884	781	830	944	759	986
U S	3,825	3,261	3,876	3,624	4,192	4,689	3,256	4,094
UNSWEETENED CONDENSED WHOLE MILK								
N Y	3,098	2,628	3,122	2,810	2,924	3,792	3,069	3,970
PA	1,989	2,747	3,093	1,582	2,202	2,844	3,048	2,685
WIS	2,168	2,207	2,490	2,714	2,745	1,625	1,026	2,055
OTHER 1/	4,053	4,052	4,746	4,781	5,235	5,202	4,180	5,497
U S	11,308	11,634	13,451	11,887	13,106	13,463	11,323	14,207
UNSWEETENED CONDENSED SKIM MILK								
CALIF	9,269	7,214	8,854	8,659	9,058	10,009	9,854	10,104
MICH	5,854	4,949	5,486	4,743	5,667	6,060	6,349	6,126
N Y	5,495	7,785	9,048	12,147	9,044	10,055	9,249	6,354
OHIO	2,810	3,208	3,585	4,084	4,011	4,967	4,135	4,888
PA	3,825	4,004	5,071	5,961	8,066	7,409	7,308	8,422
WIS	8,385	8,211	9,520	10,991	12,137	10,303	10,317	10,763
OTHER 1/	14,445	15,988	20,572	19,863	20,492	19,935	20,085	21,039
U S	50,083	51,359	62,136	66,448	68,475	68,738	67,297	67,696

SEE FOOTNOTES ON PAGE 35.

TABLE 27--CONDENSED MILK, BULK PRODUCTS
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL			
	SEP	OCT	NOV	DEC	1977 PLANTS	1977 PRODUCTION 1,000 LBS	1978 PLANTS	1978 PRODUCTION 1,000 LBS
SWEETENED CONDENSED WHOLE MILK								
WIS	6,310	5,559	3,934	3,097	6	58,355	7	63,569
OTHER 1/	1,448	1,472	958	763	6	19,885	8	17,109
U S	7,758	7,031	4,892	3,860	12	78,240	15	80,678
SWEETENED CONDENSED SKIM MILK								
WIS	3,559	2,884	2,004	2,269	4	30,695	5	34,232
OTHER 1/	876	838	622	765	6	33,043	5	10,402
U S	4,435	3,722	2,626	3,034	10	63,738	10	44,634
UNSWEETENED CONDENSED WHOLE MILK								
N Y	3,580	3,083	3,065	2,381	10	38,232	10	37,522
PA	2,480	2,358	2,305	2,512	5	33,529	4	29,845
WIS	1,562	1,607	1,228	682	3	31,822	3	22,109
OTHER 1/	4,598	4,972	4,531	3,419	17	62,530	13	55,266
U S	12,220	12,020	11,129	8,994	35	166,113	30	144,742
UNSWEETENED CONDENSED SKIM MILK								
CALIF	8,857	9,863	9,065	8,693	19	132,083	15	109,499
MICH	5,481	4,430	5,581	5,173	5	150,940	4	65,899
N Y	4,270	5,182	4,724	5,485	13	89,131	14	88,838
OHIO	4,552	4,568	3,314	3,074	8	31,797	8	47,196
PA	5,738	5,231	4,716	5,002	6	51,548	8	70,753
WIS	9,958	9,457	6,579	7,576	15	126,859	13	114,197
OTHER 1/	18,697	19,424	15,416	14,871	38	200,197	43	220,827
U S	57,553	58,155	49,395	49,874	104	782,555	105	717,209

1/ STATES NOT SHOWN WHEN LESS THAN 3 PLANTS REPORTED OR INDIVIDUAL PLANT OPERATIONS MIGHT BE DISCLOSED.

TABLE 28--EVAPORATED AND CONDENSED WHOLE MILK, CASE GOODS
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1,000 POUNDS								
OHIO	10,677	10,090	12,480	9,513	13,380	13,970	12,582	11,907
OTHER 1/	45,455	42,768	56,144	59,560	69,424	67,330	61,746	57,064
U S	56,132	52,858	68,624	69,073	82,804	81,300	74,328	68,971

TABLE 29--CONDENSED WHEY, SOLIDS CONTENT 2/
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1,000 POUNDS								
SWEET-TYPE, HUMAN								
MINN	2,386	2,194	2,579	1,750	1,955	2,417	1,362	1,926
WIS	1,606	1,587	1,777	1,570	1,728	1,730	1,680	1,978
OTHER 1/	5,407	5,046	6,086	7,281	7,233	7,303	6,994	6,322
U S	9,399	8,827	10,442	10,601	10,916	11,450	10,036	10,226
TOTAL CONDENSED 3/								
ILL 1/								
MINN	2,386	2,194	2,579	1,750	1,955	2,417	1,362	2,288
WIS	1,606	1,587	1,777	1,570	1,728	1,730	1,694	1,995
OTHER 1/	8,392	7,869	11,038	10,650	10,517	10,931	10,191	9,306
U S	12,384	11,650	15,394	13,970	14,200	15,078	13,247	13,589

SEE FOOTNOTES ON PAGE 37.

TABLE 28--EVAPORATED AND CONDENSED WHOLE MILK, CASE GOODS
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL			
	SEP	OCT	NOV	DEC	1977	1978	1977	1978
	1,000 POUNDS				PLANTS	PRODUCTION	PLANTS	PRODUCTION
					NUMBER	1,000 LBS	NUMBER	1,000 LBS
OHIO	9,282	9,684	9,268	10,508	4	136,659	4	133,341
OTHER 1/	49,697	51,037	44,203	50,097	19	658,270	19	654,525
U S	58,979	60,721	53,471	60,605	23	794,929	23	787,866

TABLE 29--CONDENSED WHEY, SOLIDS CONTENT 2/
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL			
	SEP	OCT	NOV	DEC	1977	1978	1977	1978
	1,000 POUNDS				PLANTS	PRODUCTION	PLANTS	PRODUCTION
					NUMBER	1,000 LBS	NUMBER	1,000 LBS
SWEET-TYPE, HUMAN								
MINN	2,045	1,921	2,432	2,478	6	21,989	6	25,445
WIS	1,868	2,437	1,909	2,000	10	33,555	6	21,870
OTHER 1/	5,071	5,425	4,943	5,499	10	58,416	15	72,610
U S	8,984	9,783	9,284	9,977	26	113,960	27	119,925
TOTAL CONDENSED 3/								
ILL 1/					4	22,505		
MINN	2,045	1,921	2,432	2,478	6	22,617	6	25,807
WIS	1,921	2,602	1,964	2,039	10	34,881	7	22,213
OTHER 1/	8,204	9,086	7,721	8,358	15	65,490	23	112,263
U S	12,170	13,609	12,117	12,875	35	145,493	36	160,283

1/ STATES NOT SHOWN WHEN LESS THAN 3 PLANTS REPORTED OR INDIVIDUAL PLANT OPERATIONS MIGHT BE DISCLOSED. 2/ FINAL MARKETABLE PRODUCT ONLY. DOES NOT INCLUDE QUANTITY USED OR SHIPPED TO ANOTHER PLANT FOR FURTHER PROCESSING INTO DRY WHEY OR MODIFIED WHEY PRODUCTS. 3/ INCLUDES PRODUCT FOR HUMAN CONSUMPTION AND ANIMAL FEED MADE FROM ACID-TYPE AND SWEET-TYPE WHEY.

TABLE 30--NONFAT DRY MILK FOR HUMAN FOOD
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1,000 POUNDS								
CALIF	12,884	11,017	11,648	13,699	14,978	16,111	18,201	15,873
IDAHO 2/	805	624	539	864	204	834	882	808
IOWA	7,197	6,531	7,846	7,511	8,688	9,002	7,657	6,326
MICH	3,380	3,209	3,803	4,365	4,902	6,030	5,477	5,083
MINN	16,311	15,648	18,365	19,647	20,253	19,515	17,520	12,068
N Y	3,856	3,687	4,789	6,599	6,073	8,259	4,946	2,147
N DAK 2/	519	437	522	514	541	590	430	350
OHIO	2,506	1,769	3,053	3,078	4,500	4,685	3,676	2,583
OKLA 2/	318	325	666	1,736	1,836	1,558	785	1,252
PA	1,844	1,577	1,682	2,361	2,949	3,131	1,861	1,339
S DAK	3,083	2,778	3,151	3,275	3,763	4,052	3,405	2,902
TENN 1/								
WIS	9,913	9,110	11,538	12,339	14,068	15,284	12,753	8,296
OTHER 1/	14,378	11,955	16,826	18,693	20,856	25,858	19,629	16,693
U S	76,994	68,667	84,428	94,681	103,611	114,909	97,222	75,720

TABLE 31--DRY SKIM FOR ANIMAL FEED
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1,000 POUNDS								
CALIF	85	92	89	91	102	99	146	97
IDAHO 2/	5	6	0	0	1	8	9	7
MINN	42	47	40	63	56	47	85	47
NEBR 1/								
N Y 1/	61	46	14	46	36	49	52	31
N DAK 2/	3	4	4	4	4	4	4	3
OKLA 2/	4	1	10	34	39	64	21	35
PA 1/								
S DAK	13	3	4	3	4	6	4	3
WIS	32	38	96	45	37	47	45	30
OTHER 1/	490	151	341	185	469	303	270	391
U S	735	388	598	471	748	627	636	644

SEE FOOTNOTES ON PAGE 39.

TABLE 30--NONFAT DRY MILK FOR HUMAN FOOD
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL			
	SEP	OCT	NOV	DEC	1977	1978	1977	1978
	1,000 POUNDS				PLANTS	PRODUCTION	PLANTS	PRODUCTION
	1,000 POUNDS				NUMBER	1,000 LBS	NUMBER	1,000 LBS
CALIF	12,268	10,186	9,446	10,586	14	179,865	13	156,897
IDAHO 2/	808	328	389	438	3	12,611	2	7,523
IOWA	5,202	4,136	3,273	4,143	8	101,847	8	77,512
MICH	3,997	2,741	2,266	3,216	4	49,274	4	48,469
MINN	10,017	8,474	7,467	9,708	23	228,576	19	174,993
N Y	829	201	784	2,133	13	52,044	13	44,303
N DAK 2/	299	191	205	385	1	6,167	1	4,983
OHIO	1,761	1,939	1,964	2,675	6	37,413	6	34,189
OKLA 2/	332	630	298	858	2	10,348	2	10,594
PA	635	331	343	906	7	23,100	7	18,959
S DAK	2,666	2,652	2,099	2,330	5	45,266	5	36,156
TENN 1/					4	13,571		
WIS	4,904	4,410	2,942	4,726	13	140,573	13	110,283
OTHER 1/	13,824	11,926	11,204	13,719	31	205,964	34	195,561
U S	57,542	48,145	42,680	55,823	134	1,106,619	127	920,422

TABLE 31--DRY SKIM FOR ANIMAL FEED
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL			
	SEP	OCT	NOV	DEC	1977	1978	1977	1978
	1,000 POUNDS				PLANTS	PRODUCTION	PLANTS	PRODUCTION
	1,000 POUNDS				NUMBER	1,000 LBS	NUMBER	1,000 LBS
CALIF	88	79	83	85	9	1,187	9	1,136
IDAHO 2/	14	10	2	1	3	93	2	63
MINN	71	12	51	7	16	778	11	568
NEBR 1/					4	72		
N Y 1/	14	2	3	8			7	362
N DAK 2/	3	2	3	4	1	47	1	42
OKLA 2/	23	16	9	5	2	457	2	261
PA 1/					3	69		
S DAK	1	3	3	6	4	73	4	53
WIS	25	17	16	20	7	590	7	448
OTHER 1/	414	300	105	136	42	4,518	33	3,555
U S	653	441	275	272	91	7,884	76	6,488

1/ STATES NOT SHOWN WHEN LESS THAN 3 PLANTS REPORTED OR INDIVIDUAL PLANT OPERATIONS MIGHT BE DISCLOSED.

2/ DATA FOR LESS THAN 3 PLANTS PUBLISHED BY PERMISSION OF THE FIRMS INVOLVED.

TABLE 32--DRY MILK PRODUCTS
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1,000 POUNDS								
DRY WHOLE MILK								
MINN	1,969	2,069	2,247	1,984	2,130	1,929	1,605	1,976
OTHER 1/	4,909	3,139	5,170	5,237	6,074	5,256	4,452	3,756
U S	6,878	5,208	7,417	7,221	8,204	7,185	6,057	5,732
DRY BUTTERMILK								
CALIF	196	134	238	124	167	124	164	115
IOWA	355	265	351	263	186	196	255	150
MICH 1/	176	176	228	239	233	277	165	89
MINN	1,080	1,021	1,170	1,141	1,329	1,122	1,050	867
N Y 1/	111	122	80	176	87	108	92	46
N DAK 3/	41	45	39	35	37	37	34	24
PA 1/								
WIS	1,891	1,730	1,888	1,664	1,676	1,382	1,171	1,069
OTHER 1/	1,309	983	1,116	924	776	671	492	590
U S	5,159	4,476	5,110	4,566	4,491	3,917	3,423	2,950

TABLE 33--LACTOSE-MILK SUGAR
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1,000 POUNDS								
FOR HUMAN FOOD								
MINN	2,171	2,015	2,394	2,418	2,450	2,498	2,030	1,980
WIS	4,041	4,500	5,085	3,613	5,353	5,344	4,736	4,087
OTHER 1/	2,572	2,556	3,157	2,836	2,978	2,994	2,687	2,602
U S	8,784	9,071	10,636	8,867	10,781	10,836	9,453	8,669
TOTAL LACTOSE 2/								
MINN	2,171	2,015	2,394	2,418	2,450	2,498	2,030	1,980
WIS	4,196	4,676	5,655	3,772	5,486	5,638	5,055	4,346
OTHER 1/	2,608	2,674	3,405	3,169	3,365	3,352	2,869	2,842
U S	8,975	9,365	11,454	9,359	11,301	11,488	9,954	9,168

SEE FOOTNOTES ON PAGE 41.

TABLE 32--DRY MILK PRODUCTS
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL			
	SEP	OCT	NOV	DEC	1977 PLANTS:PRODUCTION	1978 PLANTS:PRODUCTION	1977 PLANTS:PRODUCTION	1978 PLANTS:PRODUCTION
	1,000 POUNDS				NUMBER 1,000 LBS		NUMBER 1,000 LBS	
DRY WHOLE MILK								
MINN	1,481	1,738	1,674	1,888	3	23,412	6	22,690
OTHER 1/	3,264	3,214	3,417	4,039	12	45,967	19	51,927
U S	4,745	4,952	5,091	5,927	15	69,379	25	74,617
DRY BUTTERMILK								
CALIF	172	111	91	138	3	1,456	4	1,774
IOWA	126	175	121	253	6	3,207	7	2,696
MICH 1/	107	149	109	142			6	2,090
MINN	672	695	690	928	7	14,260	7	11,765
N Y 1/	100	130	95	81			4	1,228
N DAK 3/	29	33	31	32	1	440	1	417
PA 1/					3	432		
WIS	1,146	1,208	1,372	1,572	9	19,460	9	17,769
OTHER 1/	531	789	766	927	37	13,976	28	9,874
U S	2,883	3,290	3,275	4,073	66	53,231	66	47,613

TABLE 33--LACTOSE-MILK SUGAR
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL			
	SEP	OCT	NOV	DEC	1977 PLANTS:PRODUCTION	1978 PLANTS:PRODUCTION	1977 PLANTS:PRODUCTION	1978 PLANTS:PRODUCTION
	1,000 POUNDS				NUMBER 1,000 LBS		NUMBER 1,000 LBS	
FOR HUMAN FOOD								
MINN	1,693	1,728	1,926	2,057	4	24,307	4	25,360
WIS	3,571	4,025	4,040	3,768	7	52,154	6	52,163
OTHER 1/	2,458	2,333	1,992	2,540	8	26,380	7	31,705
U S	7,722	8,086	7,958	8,365	19	102,841	17	109,228
TOTAL LACTOSE 2/								
MINN	1,693	1,728	1,926	2,057	4	24,307	4	25,360
WIS	3,801	4,259	4,183	3,959	8	53,826	7	55,026
OTHER 1/	2,628	2,503	2,073	2,654	10	30,682	8	34,142
U S	8,122	8,490	8,182	8,670	22	108,815	19	114,528

1/ STATES NOT SHOWN WHEN LESS THAN 3 PLANTS REPORTED OR INDIVIDUAL PLANT OPERATIONS MIGHT BE DISCLOSED.

2/ INCLUDES PRODUCT MADE FOR BOTH HUMAN FOOD AND ANIMAL FEED.

3/ DATA FOR LESS THAN 3 PLANTS PUBLISHED BY PERMISSION OF THE FIRMS INVOLVED.

TABLE 34--DRY WHEY
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1,000 POUNDS								
HUMAN FOOD								
IOWA 1/								
MINN	13,825	13,320	13,640	13,246	14,658	14,457	12,250	11,087
UTAH	2,107	1,856	2,159	2,093	2,550	2,357	2,060	1,740
WIS	12,894	13,386	15,458	15,162	15,465	15,917	14,306	13,974
OTHER 1/	13,812	12,748	14,845	15,182	15,565	15,992	14,011	14,699
U S	42,638	41,310	46,102	45,683	48,238	48,723	42,627	41,500
ANIMAL FEED								
IOWA 1/								
MINN	357	1,068	2,830	2,750	2,598	2,991	1,556	995
MO 1/	1,209	1,072	1,206	1,541	2,051	2,427	1,774	1,734
UTAH	132	118	97	96	97	159	232	39
WIS	3,351	3,793	4,495	8,009	10,202	7,755	6,911	6,606
OTHER 1/	4,722	5,731	7,812	8,632	8,150	7,875	7,918	7,306
U S	9,771	11,782	16,440	21,028	23,098	21,207	18,391	16,680
TOTAL DRY WHEY								
ILL	710	760	760	483	968	1,872	1,143	1,366
IOWA	4,792	4,696	5,998	6,138	6,237	5,684	5,616	5,290
MINN	14,182	14,388	16,470	15,996	17,256	17,448	13,806	12,082
MO	1,209	1,072	1,206	1,541	2,051	2,427	1,774	1,734
NEBR	271	236	268	376	288	91	105	162
N Y	3,102	3,039	3,352	2,613	2,935	2,738	3,039	2,886
N DAK 1/								
TENN	971	1,224	1,535	1,634	1,443	1,614	1,202	1,181
UTAH	2,239	1,974	2,256	2,189	2,647	2,516	2,292	1,779
WIS	16,245	17,179	19,953	23,171	25,667	23,672	21,217	20,580
OTHER 1/	8,688	8,524	10,744	12,570	11,844	11,868	10,824	11,120
U S	52,409	53,092	62,542	66,711	71,336	69,930	61,018	58,180

SEE FOOTNOTES ON PAGE 43.

TABLE 34--DRY WHEY
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL			
	SEP	OCT	NOV	DEC	1977 PLANTS	1977 PRODUCTION	1978 PLANTS	1978 PRODUCTION
	1,000 POUNDS				NUMBER 1,000 LBS		NUMBER 1,000 LBS	
HUMAN FOOD								
IOWA 1/					7	42,926		
MINN	9,567	10,688	11,929	13,097	15	134,889	11	151,764
UTAH	1,926	2,015	1,776	1,764	4	19,690	4	24,403
WIS	11,884	12,379	12,185	13,942	18	149,798	17	166,952
OTHER 1/	12,921	13,513	13,436	15,223	24	125,209	28	171,947
U S	36,298	38,595	39,326	44,026	68	472,512	60	515,066
ANIMAL FEED								
IOWA 1/					8	16,101		
MINN	1,494	1,342	1,338	2,140	10	17,144	8	21,459
MO 1/	1,437	1,706	1,631	1,854			6	19,642
UTAH	84	62	107	111	4	2,688	4	1,334
WIS	7,551	3,543	3,439	3,458	21	40,720	20	69,113
OTHER 1/	6,430	5,961	6,770	7,569	53	78,638	49	84,876
U S	16,996	12,614	13,285	15,132	96	155,291	87	196,424
TOTAL DRY WHEY								
ILL	1,056	598	1,810	1,663	6	11,009	5	13,189
IOWA	4,690	4,823	5,217	5,297	10	59,027	8	64,478
MINN	11,061	12,030	13,267	15,237	18	152,033	13	173,223
MO	1,437	1,706	1,631	1,854	7	16,312	6	19,642
NEBR	202	271	152	231	6	3,050	5	2,653
N Y	2,684	3,241	3,120	3,297	6	41,728	6	36,046
N DAK 1/					3	9,204		
TENN	730	839	865	1,148	3	15,854	3	14,386
UTAH	2,010	2,077	1,883	1,875	4	22,378	4	25,737
WIS	19,435	15,922	15,624	17,400	28	190,518	27	236,065
OTHER 1/	9,989	9,702	9,042	11,156	24	106,690	28	126,071
U S	53,294	51,209	52,611	59,158	115	627,803	105	711,490

1/ STATES NOT SHOWN WHEN LESS THAN 3 PLANTS REPORTED OR INDIVIDUAL PLANT OPERATIONS MIGHT BE DISCLOSED.

TABLE 35--ICE CREAM, TOTAL
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1,000 GALLONS								
ALA	794	852	1,153	1,113	1,093	1,384	1,234	1,227
ARIZ	431	496	591	543	649	631	620	583
ARK	283	298	389	371	432	543	513	520
CALIF	5,835	5,926	7,828	7,152	8,044	9,191	8,507	9,151
COLO	595	648	765	674	798	935	779	961
CONN	1,094	1,055	1,496	1,484	1,649	1,862	1,850	1,894
FLA	2,127	2,156	2,843	2,401	2,599	3,106	2,746	2,838
GA	387	412	526	501	589	591	563	603
IDAHO	215	256	278	267	275	328	325	352
ILL	2,681	2,813	3,543	3,035	3,389	4,215	3,870	3,921
IND	1,652	1,986	2,557	2,153	2,221	2,902	2,425	2,607
IOWA	612	836	1,067	865	982	1,107	1,093	1,181
KANS	392	402	532	374	548	652	590	605
KY	268	316	443	448	564	540	502	590
LA	635	669	803	739	864	1,046	907	865
MAINE	277	345	430	365	479	466	443	543
MD 2/	1,107	1,127	1,748	1,723	1,717	2,173	2,164	2,175
MASS	3,018	2,824	4,088	3,487	4,047	4,582	4,010	4,382
MICH	2,220	2,580	3,033	2,676	3,184	3,694	3,435	3,696
MINN	2,115	2,490	2,649	2,297	2,822	3,214	2,986	3,317
MISS	295	318	426	459	426	587	520	475
MO	1,234	1,347	1,617	1,441	1,503	2,003	1,754	1,803
MONT	122	103	165	146	147	185	180	202
NEBR	570	698	788	805	886	992	1,063	1,071
NEV	94	100	114	85	107	115	113	119
N H	66	53	79	82	87	139	150	153
N J	436	368	415	465	580	679	693	750
N Y	3,646	4,026	5,135	4,784	5,577	6,735	6,421	6,477
N C	1,823	1,848	2,204	2,298	2,500	2,686	2,754	2,715
N DAK	185	179	230	180	226	245	242	255
OHIO	3,197	3,798	4,652	3,854	4,341	5,189	4,354	4,918
OKLA	531	553	724	768	835	942	968	951
OREG	572	605	727	609	736	774	728	883
PA	4,493	5,099	5,703	5,633	6,456	7,030	6,794	7,793
R I	81	80	113	124	135	178	162	156
S C	1,126	998	1,310	1,219	1,307	1,758	1,627	1,529
S DAK	7	8	9	7	11	12	11	11
TENN	1,239	1,317	1,608	1,742	1,802	2,088	2,198	2,200
TEX	2,444	2,468	3,140	3,238	3,617	4,022	3,520	4,014
UTAH	457	527	653	582	629	692	728	784
VT	8	8	15	14	22	26	32	28
VA	477	574	646	675	749	819	920	861
WASH	1,147	1,187	1,403	1,235	1,531	1,617	1,636	1,482
W VA	161	173	208	210	231	276	264	252
WIS	1,237	1,314	1,554	1,458	1,778	1,975	1,899	1,930
OTHER 1/	445	475	561	499	603	647	602	662
U S	52,831	56,711	70,961	65,280	73,767	85,573	79,895	84,485

SEE FOOTNOTES ON PAGE 45.

TABLE 35--ICE CREAM, TOTAL
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL	
	SEP	OCT	NOV	DEC	1977 PRODUCTION	1978 PRODUCTION
1,000 GALLONS						
ALA	945	932	918	670	12,479	12,315
ARIZ	533	517	499	361	7,188	6,454
ARK	413	410	287	255	4,656	4,714
CALIF	6,945	7,713	6,655	5,283	85,370	88,230
COLO	665	706	662	540	8,654	8,728
CONN	1,511	1,677	1,505	1,585	15,131	18,662
FLA	2,806	2,474	2,564	2,489	29,848	31,149
GA	469	449	394	365	6,186	5,849
IDAH0	254	297	229	181	3,234	3,257
ILL	3,835	3,095	2,776	2,783	42,004	39,956
IND	2,570	2,036	1,792	1,723	27,037	26,624
IOWA	965	1,225	834	609	10,074	11,376
KANS	550	481	500	343	7,325	5,969
KY	458	387	383	293	5,275	5,192
LA	850	685	576	528	10,829	9,167
MAINE	463	274	54	63	5,381	4,202
MD 2/	2,047	1,744	1,458	1,241	18,745	20,424
MASS	3,526	2,962	3,053	2,930	45,255	42,909
MICH	3,138	2,703	2,330	2,220	34,692	34,909
MINN	2,816	2,456	2,517	2,200	30,906	31,879
MISS	452	342	263	259	5,025	4,822
MO	1,593	1,464	1,122	1,059	18,256	17,940
MONT	136	139	111	95	1,575	1,731
NEBR	907	931	771	674	10,072	10,156
NEV	90	91	79	55	1,223	1,162
N H	88	71	69	56	1,047	1,093
N J	468	355	339	289	11,652	5,837
N Y	5,898	4,357	4,062	4,116	59,542	61,234
N C	2,317	1,932	1,727	1,537	26,563	26,341
N DAK	183	194	179	134	2,568	2,432
OHIO	4,283	3,811	3,495	3,143	48,303	49,035
OKLA	759	797	580	485	8,492	8,893
OREG	591	632	578	517	7,386	7,952
PA	5,505	6,203	5,163	5,418	68,338	71,290
R I	124	113	128	72	1,474	1,466
S C	1,383	1,157	752	706	14,726	14,872
S DAK	10	7	9	7	124	109
TENN	1,679	1,434	1,234	876	18,008	19,417
TEX	3,346	3,270	2,507	1,849	36,705	37,435
UTAH	607	668	533	462	6,681	7,322
VT	17	14	10	7	158	201
VA	737	691	559	467	8,156	8,175
WASH	1,454	1,316	1,102	1,147	17,110	16,257
W VA	232	189	178	146	2,584	2,520
WIS	1,732	1,415	1,299	1,294	17,842	18,885
OTHER 1/	543	535	499	486	5,970	6,557
U S	70,893	65,351	57,334	52,018	809,849	815,099

1/ STATES NOT SHOWN WHEN LESS THAN 3 PLANTS REPORTED OR INDIVIDUAL PLANT OPERATIONS MIGHT BE DISCLOSED. 2/ INCLUDES DISTRICT OF COLUMBIA.

TABLE 36--ICE CREAM, HARD
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1,000 GALLONS								
ALA	794	852	1,153	1,113	1,093	1,384	1,234	1,227
ARIZ	430	495	590	541	648	629	618	582
ARK	253	268	348	330	386	482	457	464
CALIF	5,835	5,926	7,828	7,152	8,044	9,191	8,507	9,151
COLO	595	648	765	674	798	935	779	961
CONN	986	962	1,403	1,361	1,403	1,677	1,634	1,801
FLA	2,035	2,064	2,725	2,296	2,491	2,974	2,628	2,720
GA	383	406	518	492	581	579	555	594
IDAHO	215	256	278	267	275	328	325	352
ILL	2,628	2,740	3,459	2,951	3,274	4,078	3,755	3,806
IND	1,652	1,986	2,557	2,153	2,221	2,902	2,425	2,607
IOWA	612	836	1,067	865	982	1,107	1,093	1,181
KANS	392	402	532	374	548	652	590	605
KY	268	316	443	448	564	540	502	590
LA	628	662	795	732	856	1,036	898	856
MAINE	277	345	430	365	477	463	439	541
MD 2/	1,074	1,094	1,715	1,673	1,650	2,048	2,030	2,050
MASS	2,989	2,784	4,048	3,447	3,984	4,502	3,930	4,302
MICH	2,203	2,563	3,016	2,659	3,124	3,633	3,357	3,627
MINN	2,115	2,490	2,649	2,297	2,822	3,214	2,986	3,317
MISS	295	318	426	459	426	587	520	475
MO	1,218	1,325	1,594	1,410	1,462	1,938	1,661	1,715
MONT	122	102	161	142	141	179	172	194
NEV	88	95	105	77	98	104	105	110
N H	66	53	79	82	87	139	150	153
N J	372	283	266	251	324	402	394	430
N Y	3,492	3,872	4,827	4,167	4,575	5,502	5,033	5,167
N C	1,823	1,848	2,204	2,298	2,500	2,686	2,754	2,715
N DAK	185	179	230	180	226	245	242	255
OHIO	3,186	3,787	4,634	3,829	4,297	5,139	4,296	4,871
OKLA	529	550	720	764	831	936	963	946
OREG	566	597	719	599	721	754	712	868
PA	4,454	4,981	5,466	5,317	6,061	6,477	6,163	7,201
R I	80	79	110	119	127	170	154	148
S C	1,126	998	1,310	1,219	1,307	1,758	1,627	1,529
S DAK	7	8	9	7	11	12	11	11
TENN	1,207	1,283	1,558	1,679	1,738	2,016	2,135	2,134
TEX	2,444	2,468	3,136	3,234	3,617	4,018	3,517	4,010
UTAH	454	523	648	577	624	686	722	778
VT	8	8	14	11	18	20	24	21
VA	465	562	622	651	702	732	869	798
WASH	1,146	1,185	1,401	1,233	1,528	1,614	1,633	1,479
W VA	161	173	208	210	231	276	264	252
WIS	1,228	1,305	1,519	1,333	1,735	1,927	1,847	1,878
OTHER 1/	1,005	1,162	1,335	1,288	1,466	1,615	1,641	1,708
U S	52,091	55,839	69,620	63,416	71,074	82,286	76,351	81,180

SEE FOOTNOTES ON PAGE 47.

TABLE 36--ICE CREAM, HARD
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL			
	SEP	OCT	NOV	DEC	1977	1978	1977	1978
	PLANTS	PRODUCTION	PLANTS	PRODUCTION	PLANTS	PRODUCTION	PLANTS	PRODUCTION
	1,000 GALLONS				NUMBER 1,000 GAL			
ALA	945	932	918	670	9	12,479	9	12,315
ARIZ	532	516	498	360	9	6,543	8	6,439
ARK	367	364	257	231	8	4,104	8	4,207
CALIF	6,945	7,713	6,655	5,283	189	85,370	189	88,230
COLO	665	706	662	540	22	8,654	28	8,728
CONN	1,418	1,569	1,444	1,462	26	15,131	27	17,120
FLA	2,688	2,369	2,459	2,384	17	28,279	15	29,833
GA	459	443	390	359	10	6,088	9	5,759
IDAHO	254	297	229	181	8	3,234	7	3,257
ILL	3,751	3,022	2,713	2,730	46	41,576	40	38,907
IND	2,570	2,036	1,792	1,723	30	26,319	30	26,624
IOWA	965	1,225	834	609	19	9,906	21	11,376
KANS	550	481	500	343	12	7,325	11	5,969
KY	458	387	383	293	10	5,275	9	5,192
LA	842	678	570	522	20	10,704	20	9,075
MAINE	463	274	54	63	15	5,381	15	4,191
MD 2/	1,939	1,694	1,416	1,208	16	17,944	15	19,591
MASS	3,492	2,928	3,028	2,901	38	44,597	38	42,335
MICH	3,103	2,677	2,313	2,203	44	33,453	41	34,478
MINN	2,816	2,456	2,517	2,200	14	30,906	11	31,879
MISS	452	342	263	259	8	5,025	9	4,822
MO	1,523	1,423	1,100	1,043	18	17,872	17	17,412
MONT	131	137	108	91	15	1,555	14	1,680
NEV	84	85	73	52	3	1,138	3	1,076
N H	88	71	69	56	13	1,047	11	1,093
N J	319	227	232	204	18	9,048	16	3,704
N Y	5,127	3,972	3,831	3,962	78	49,889	73	53,527
N C	2,317	1,932	1,727	1,537	21	26,563	20	26,341
N DAK	183	194	179	134	12	2,568	12	2,432
OHIO	4,258	3,786	3,471	3,121	52	48,201	51	48,675
OKLA	754	794	578	483	14	8,168	14	8,848
OREG	583	624	570	511	18	7,305	18	7,824
PA	4,992	5,887	5,005	5,339	75	64,991	67	67,343
R I	119	110	126	71	13	1,474	13	1,413
S C	1,383	1,157	752	706	6	14,726	6	14,872
S DAK	10	7	9	7	4	105	4	109
TENN	1,634	1,396	1,207	862	14	17,625	15	18,849
TEX	3,343	3,266	2,504	1,846	32	36,668	31	37,403
UTAH	602	663	529	459	11	6,681	12	7,265
VT	13	12	9	7	4	152	5	165
VA	705	679	543	451	12	7,999	9	7,779
WASH	1,451	1,314	1,100	1,146	19	16,706	19	16,230
W VA	232	189	178	146	7	2,584	7	2,520
WIS	1,684	1,372	1,264	1,268	41	16,765	40	18,450
OTHER 1/	1,432	1,452	1,260	1,150	25	15,970	25	16,514
U S	68,641	63,858	56,319	51,176	1,095	784,093	1,062	791,851

1/ STATES NOT SHOWN WHEN LESS THAN 3 PLANTS REPORTED OR INDIVIDUAL PLANT OPERATIONS MIGHT BE DISCLOSED. 2/ INCLUDES DISTRICT OF COLUMBIA.

TABLE 37--ICE MILK 1/
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1,000 GALLONS								
ALA	557	498	796	811	842	985	876	888
ALAS	21	27	33	38	49	60	54	65
ARIZ	250	286	374	374	424	416	375	392
ARK	105	128	193	207	233	286	267	267
CALIF 2/	1,782	2,012	2,470	2,322	2,934	2,958	2,770	3,008
COLO	259	316	448	444	519	629	606	647
CONN	232	260	354	371	435	485	396	378
FLA	896	1,053	1,478	1,335	1,343	1,641	1,373	1,328
GA	425	429	634	565	635	850	711	705
HAW	94	92	104	101	97	102	97	97
IDAHO	89	82	111	129	145	173	176	177
ILL	659	873	1,342	1,296	1,740	1,868	1,969	1,854
IND	399	520	737	850	1,001	1,034	1,115	1,079
IOWA 3/	210	262	413	409	607	662	657	661
KANS	199	249	499	430	562	705	598	658
KY	129	162	320	352	421	468	460	452
LA	247	273	330	369	393	397	380	359
MAINE	59	68	108	126	142	120	139	129
MD 4/	368	455	614	599	815	830	932	808
MASS	387	407	537	529	655	788	835	729
MICH	562	583	946	1,158	1,579	1,667	1,629	1,653
MINN	193	248	410	480	691	685	658	639
MISS 5/	154	191	275	291	.339	401	355	337
MO	581	631	725	894	1,033	985	1,270	1,209
MONT 6/	54	71	128	119	161	194	199	191
NEBR	165	203	275	324	454	523	462	498
NEV	69	71	86	77	100	100	103	114
N H	17	18	31	39	58	61	67	66
N J	118	142	202	182	229	255	244	250
N Y	590	604	966	809	1,039	1,218	1,295	1,306
N C	533	682	864	977	1,107	1,238	1,172	1,200
N DAK	32	58	77	91	124	142	136	136
OHIO	813	958	1,655	1,965	2,515	3,002	2,816	2,759
OKLA	261	300	387	430	495	524	496	492
OREG 7/	275	296	366	403	412	517	507	535
PA	780	972	1,518	1,612	2,034	2,345	2,381	2,282
R I	5	4	7	10	17	25	30	23
S C	406	319	678	454	664	757	752	845
S DAK	31	40	76	82	118	118	112	115
TENN	393	404	691	729	748	893	876	904
TEX	671	682	1,023	1,028	1,238	1,259	1,125	1,129
UTAH	169	193	255	227	306	357	359	322
VT	24	29	34	39	64	63	72	48
VA	190	223	302	349	393	406	450	467
WASH	576	584	758	683	764	911	910	916
W VA	90	114	183	255	306	331	335	330
WIS	354	473	657	717	839	1,178	992	999
OTHER 8/	125	141	210	219	273	351	350	262
U S	15,598	17,686	25,708	26,300	32,092	35,963	34,939	34,708

SEE FOOTNOTES ON PAGE 49.

TABLE 37--ICE MILK 1/
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL	
	SEP	OCT	NOV	DEC	1977 PRODUCTION	1978 PRODUCTION
1,000 GALLONS						
ALA	687	652	679	506	8,259	8,777
ALAS	60	60	38	38	503	543
ARIZ	385	395	304	275	3,507	4,250
ARK	215	194	166	137	2,351	2,398
CALIF 2/	2,384	2,509	2,120	1,733	30,692	29,002
COLO	438	437	318	245	5,327	5,306
CONN	300	249	249	239	3,438	3,948
FLA	1,193	1,191	1,064	1,063	14,101	14,958
GA	636	563	493	419	6,635	7,065
HAW	91	90	87	84	1,103	1,136
IDAHO	132	138	86	69	1,477	1,507
ILL	1,553	1,128	980	819	16,699	16,081
IND	759	568	375	383	10,028	8,820
IOWA 3/	463	314	260	209	4,130	5,127
KANS	501	445	326	278	4,509	5,450
KY	376	304	227	187	3,709	3,858
LA	333	292	253	220	4,254	3,846
MAINE	92	122	35	10	1,436	1,150
MD 4/	677	596	356	385	7,107	7,435
MASS	449	450	399	383	7,483	6,548
MICH	1,063	797	782	529	12,895	12,948
MINN	449	325	203	188	5,141	5,177
MISS 5/	303	271	193	200	3,526	3,310
MO	1,079	843	603	536	11,923	10,389
MONT 6/	108	108	83	80	1,331	1,496
NEBR	359	312	272	181	3,805	4,028
NEV	98	66	68	54	1,008	1,006
N H	31	22	17	13	638	440
N J	183	180	163	136	3,292	2,284
N Y	991	745	622	664	11,779	10,869
N C	1,064	855	677	532	10,662	10,901
N DAK	95	72	55	51	1,171	1,069
OHIO	2,025	1,534	1,115	916	20,563	22,073
OKLA	423	448	324	281	5,052	4,861
OREG 7/	419	391	293	280	4,407	4,694
PA	1,651	1,066	956	746	17,969	18,343
R I	17	6	8	5	438	157
S C	534	589	241	267	6,593	6,506
S DAK	67	48	37	25	860	869
TENN	686	516	371	285	7,665	7,496
TEX	927	912	781	565	11,580	11,340
UTAH	205	234	167	136	3,141	2,930
VT	43	34	5	29	522	484
VA	420	346	279	258	4,401	4,083
WASH	664	611	515	488	8,583	8,380
W VA	235	181	141	108	2,874	2,609
WIS	823	595	491	476	7,511	8,594
OTHER 8/	254	212	173	134	1,871	2,704
U S	26,940	23,016	18,450	15,845	307,949	307,245

1/ INCLUDES HARD, SOFT-SERVE, AND FREEZER-MADE MILKSHAKE. 2/ INCLUDES FREEZER-MADE "MILK DRINK". 3/ INCLUDES SUBSTANDARD FROZEN DESSERT. 4/ INCLUDES DISTRICT OF COLUMBIA. 5/ INCLUDES MILKSHAKE BASE. 6/ INCLUDES LOWFAT ICE CREAM. 7/ INCLUDES SUBSTANDARD ICE CREAM. 8/ STATES NOT SHOWN WHEN LESS THAN 3 PLANTS REPORTED OR INDIVIDUAL PLANT OPERATIONS MIGHT BE DISCLOSED.

TABLE 38--MILK SHERBET 1/
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1,000 GALLONS								
ALA	40	41	63	70	66	81	69	59
ALAS	0	0	0	1	2	1	2	1
ARIZ	25	29	35	34	32	44	45	48
ARK	21	21	25	29	30	36	40	37
CALIF	349	314	462	405	523	614	521	533
COLO	51	35	54	51	62	81	60	66
CONN	21	14	31	37	52	46	52	50
FLA	100	100	145	127	165	177	187	164
GA	16	16	41	42	44	36	41	39
IDAHO	10	13	15	12	15	22	24	21
ILL	156	158	208	238	213	306	247	242
IND	134	115	138	158	187	241	177	164
IOWA	60	52	105	59	85	101	91	94
KANS	28	16	49	41	56	53	46	44
KY	25	32	47	47	55	57	48	46
LA	49	41	64	53	59	77	75	61
MAINE	26	25	37	39	52	68	67	80
MD 2/	66	67	114	99	120	190	136	157
MASS	98	89	191	189	208	372	246	222
MICH	106	104	151	146	173	203	194	187
MINN	86	107	164	110	152	172	127	143
MISS	25	20	32	31	36	47	38	40
MO	76	79	107	109	121	120	146	128
MONT	4	2	3	15	9	11	12	8
NEBR	15	16	15	18	30	33	32	35
NEV	4	5	7	7	7	11	9	11
N H	4	7	12	7	11	12	9	13
N J	12	7	20	16	29	29	29	29
N Y	135	123	190	219	255	391	382	330
N C	111	100	135	162	221	213	179	199
N DAK	7	7	11	14	14	15	13	14
OHIO	165	153	258	216	277	333	317	284
OKLA	28	29	47	43	51	59	67	44
OREG	38	34	34	53	45	41	44	58
PA	196	135	226	242	316	391	358	371
R I	7	6	8	10	19	21	13	12
S C	132	87	95	172	142	225	204	190
TENN	99	68	88	136	116	150	144	132
TEX	182	160	244	231	301	360	301	288
UTAH	34	35	47	37	45	60	57	70
WASH	92	121	145	144	150	217	169	153
W VA	10	12	16	18	19	21	19	20
WIS	48	52	92	76	85	127	91	88
OTHER 3/	56	58	73	84	95	152	158	176
U S	2,947	2,705	4,044	4,047	4,745	6,017	5,286	5,151

SEE FOOTNOTES ON PAGE 51.

TABLE 38--MILK SHERBET 1/
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL	
	SEP	OCT	NOV	DEC	1977 PRODUCTION	1978 PRODUCTION
1,000 GALLONS						
ALA	51	58	47	38	760	683
ALAS	0	0	0	0	25	7
ARIZ	35	31	31	21	430	410
ARK	31	26	19	19	307	334
CALIF	393	497	355	266	5,711	5,232
COLO	37	54	36	31	625	618
CONN	33	33	42	51	667	462
FLA	159	126	108	99	1,689	1,657
GA	35	27	23	23	370	383
IDAHO	8	11	9	9	200	169
ILL	245	162	156	162	2,623	2,493
IND	165	153	121	96	1,990	1,849
IOWA	85	66	47	52	916	897
KANS	40	38	33	32	505	476
KY	49	36	27	40	536	509
LA	69	53	45	37	730	683
MAINE	42	5	1		413	442
MD 2/	129	83	55	77	1,259	1,293
MASS	142	90	147	108	2,180	2,102
MICH	127	116	97	113	2,087	1,717
MINN	126	114	119	87	1,465	1,507
MISS	32	23	19	16	373	359
MO	105	120	71	86	1,100	1,268
MONT	8	4	8	2	83	86
NEBR	28	30	42	22	309	316
NEV	5	6	5	5	79	82
N H	6	7	9	11	81	108
N J	18	10	9	8	406	216
N Y	253	191	136	169	2,626	2,774
N C	157	115	101	99	1,780	1,792
N DAK	11	8	6	9	122	129
OHIO	233	197	142	177	3,131	2,752
OKLA	57	49	29	21	405	524
OREG	38	22	24	27	525	458
PA	244	167	179	190	2,859	3,015
R I	9	9	8	8	165	130
S C	118	157	65	59	1,688	1,646
TENN	109	80	70	55	1,454	1,247
TEX	238	227	166	116	3,029	2,814
UTAH	36	38	30	25	471	514
WASH	129	116	101	105	1,401	1,642
W VA	17	17	18	15	214	202
WIS	63	51	56	61	828	890
OTHER 3/	90	81	69	55	1,166	1,147
U S	4,005	3,504	2,881	2,702	49,783	48,034

1/ INCLUDES HARD, SOFT-SERVE, AND FREEZER-MADE MILKSHAKE.

2/ INCLUDES DISTRICT OF COLUMBIA.

3/ STATES NOT SHOWN WHEN LESS THAN 3 PLANTS REPORTED OR INDIVIDUAL PLANT OPERATIONS MIGHT BE DISCLOSED.

TABLE 39--MELLORINE TYPE PRODUCTS
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

		1978							
STATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	
1,000 GALLONS									
FROZEN PRODUCT 1/									
ARIZ									
ARK	28	31	46	35	39	48	49	51	
CALIF 3/	199	238	363	315	299	412	316	330	
ILL	54	55	74	74	91	117	101	108	
IND	14	9	18	25	27	34	27	25	
LA	4	7	1	3	2	8	2	2	
MO	34	38	41	44	64	53	60	45	
OKLA	21	28	28	69	39	46	51	51	
OREG	34	16	29	18	28	24	24	20	
TEX	512	501	793	824	892	881	784	795	
OTHER 2/	109	139	154	170	183	212	212	227	
U S	1,009	1,062	1,547	1,577	1,664	1,835	1,626	1,654	
MIX FOR FROZEN PRODUCT									
ARIZ 2/									
ARK	15	16	22	17	21	24	25	26	
CALIF	107	123	203	178	158	223	170	192	
ILL	44	40	55	56	75	84	72	80	
LA	2	3	1	2	1	5	1	1	
MO	14	12	12	15	22	15	19	12	
OKLA	11	15	15	20	20	23	26	26	
OREG	17	9	13	10	12	12	12	11	
TEX	287	300	467	517	489	544	490	475	
OTHER 2/	63	76	88	99	107	125	125	131	
U S	560	594	876	914	905	1,055	940	954	

TABLE 40--OTHER FROZEN DAIRY PRODUCTS
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

		1978							
STATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	
1,000 GALLONS									
COLO 2/	11	10	23	20	16	17	20	16	
CONN 2/	47	41	60	47	179	133	141	85	
GA 2/									
ILL	13	23	14	22	44	24	21	23	
LA	11	8	15	13	17	20	13	11	
MASS	31	45	100	95	112	118	93	82	
MISS 2/									
MO 2/									
N Y	166	306	477	656	708	882	832	621	
PA	70	55	84	84	99	92	77	52	
TENN	10	14	17	28	29	30	29	31	
TEX 2/									
WASH 2/	5	21	40	22	28	35	22	26	
OTHER 2/	193	203	336	376	453	588	481	411	
U S	557	726	1,166	1,363	1,685	1,939	1,729	1,358	

SEE FOOTNOTES ON PAGE 53.

TABLE 39--MELLORINE TYPE PRODUCTS
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL			
	SEP	OCT	NOV	DEC	1977 PLANTS:PRODUCTION	1978 PLANTS:PRODUCTION	1978 PLANTS:PRODUCTION	
	1,000 GALLONS				NUMBER 1,000 GAL			
FROZEN PRODUCT 1/								
ARIZ						393		
ARK	35	61	17	28		571		468
CALIF	284	278	212	175		4,077		3,421
ILL	98	76	60	46		1,004		954
IND	11	17	8	6		198		221
LA	1	1	1	0		116		32
MO	57	33	22	36		752		527
OKLA	37	46	24	16		536		456
OREG	18	18	15	17		295		261
TEX	665	548	443	311		9,100		7,949
OTHER 2/	160	173	114	122		1,753		1,975
U S	1,366	1,251	916	757		18,795		16,264

**MIX FOR
FROZEN PRODUCT**

ARIZ 2/					4	204		
ARK	17	30	9	14	8	289		236
CALIF	156	160	143	98	17	2,104	17	1,911
ILL	75	60	48	34	14	748	13	723
LA	1	0	0	0	6	62	7	17
MO	20	17	7	11	8	282	8	176
OKLA	19	23	13	8	10	289	8	219
OREG	9	9	7	8	5	147	5	129
TEX	389	369	263	152	35	5,405	31	4,742
OTHER 2/	87	98	61	65	13	1,009	18	1,125
U S	773	766	551	390	120	10,539	114	9,278

TABLE 40--OTHER FROZEN DAIRY PRODUCTS
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL			
	SEP	OCT	NOV	DEC	1977 PLANTS:PRODUCTION	1978 PLANTS:PRODUCTION	1978 PLANTS:PRODUCTION	
	1,000 GALLONS				NUMBER 1,000 GAL			
COLO 2/	10	8	4	5			3	160
CONN 2/	33	32	23	27			5	848
GA 2/					5	390		
ILL	31	46	23	9	10	644	7	293
LA	15	8	9	7	4	241	4	147
MASS	50	25	19	18	5	526	8	788
MISS 2/					4	38		
MO 2/					7	830		
N Y	397	235	189	137	10	3,778	20	5,606
PA	56	65	54	28	8	726	6	816
TENN	18	22	16	10	6	293	4	254
TEX 2/					8	326		
WASH 2/	24	16	23	13			4	275
OTHER 2/	279	239	169	114	42	4,153	42	3,842
U S	913	696	529	368	109	11,945	103	13,029

1/ INCLUDES HARD, SOFT-SERVE, AND FREEZER-MADE MILKSHAKE.

2/ STATES NOT SHOWN WHEN LESS THAN 3 PLANTS REPORTED OR INDIVIDUAL PLANT OPERATIONS MIGHT BE DISCLOSED.

3/ DESIGNATED AS "IMITATION ICE CREAM".

4/ NUMBER OF PLANTS NOT AVAILABLE FOR MELLORINE-TYPE FROZEN DESSERTS.

TABLE 41--WATER ICES 1/
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1,000 GALLONS								
ALA	25	23	61	101	99	101	72	55
CALIF	222	204	262	300	373	463	424	355
COLO	13	14	22	66	54	60	52	43
CONN	9	5	25	137	91	43	37	99
FLA	84	80	98	106	157	197	127	148
GA 2/								
ILL	50	73	83	117	107	172	149	118
IND	94	149	225	131	203	258	238	276
KY 2/								
LA	9	8	19	23	25	31	25	19
MD 3/	30	84	221	223	229	266	287	204
MASS	5	12	82	55	40	82	90	72
MICH 2/	9	1	9	15	14	40	40	17
MISS	9	12	19	24	25	53	38	23
MO 2/	154	200	204	180	155	228	164	155
N J	1	3	2	18	36	41	41	36
N Y	23	29	109	173	250	328	282	215
N C	66	96	136	143	183	190	152	168
OHIO	112	148	409	464	451	570	560	537
OKLA	11	11	19	33	23	42	32	27
PA	59	67	176	211	323	484	473	339
TENN	29	31	53	58	69	91	80	69
TEX	62	90	130	178	183	269	247	203
UTAH		4	7	10	26	47	48	44
WASH 2/	9	29	29	34	34	76	75	50
W VA	10	11	14	38	70	81	87	40
WIS	163	148	152	173	177	230	247	172
OTHER 2/	253	318	461	468	541	722	723	553
U S	1,511	1,850	3,027	3,479	3,938	5,165	4,790	4,037

SEE FOOTNOTES ON PAGE 55.

TABLE 41--WATER ICES 1/
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL			
	SEP	OCT	NOV	DEC	1977		1978	
	1,000 GALLONS				PLANTS	PRODUCTION	PLANTS	PRODUCTION
					NUMBER	1,000 GAL	NUMBER	1,000 GAL
ALA	78	57	28	25	4	822	4	725
CALIF	312	256	221	149	13	3,757	14	3,541
COLO	19	10	11	6	4	429	5	370
CONN	57	7	19	15	9	264	8	544
FLA	128	87	39	42	8	1,757	8	1,293
GA 2/					5	810		
ILL	70	56	46	18	11	1,414	10	1,059
IND	179	135	143	109	8	2,113	8	2,140
KY 2/					5	349		
LA	19	13	10	6	7	279	7	207
MD 3/	143	102	78	55	9	2,052	9	1,922
MASS	17	13	7	6	6	752	6	481
MICH 2/	4	4	1	1			8	155
MISS	21	20	8	8	4	301	5	260
MO 2/	68	60	18	9			4	1,595
N J	1	2	1	1	12	609	8	183
N Y	72	42	30	30	34	2,017	28	1,583
N C	115	99	65	54	14	1,485	13	1,467
OHIO	236	109	42	59	13	2,710	14	3,697
OKLA	26	13	12	10	3	272	3	259
PA	165	72	70	41	17	2,638	17	2,480
TENN	50	35	15	16	9	541	7	596
TEX	149	90	77	44	18	2,042	16	1,722
UTAH	1	1	2	0	5	233	4	190
WASH 2/	19	5	6	10			4	376
W VA	17	12	9	10	3	569	3	399
WIS	65	72	39	75	4	2,281	4	1,713
OTHER 2/	251	177	183	165	48	6,768	44	4,815
U S	2,282	1,549	1,180	964	273	37,264	261	33,772

1/ DOES NOT INCLUDE COUNTER-FREEZER PRODUCTION.

2/ STATES NOT SHOWN WHEN LESS THAN 3 PLANTS REPORTED OR INDIVIDUAL PLANT OPERATIONS MIGHT BE DISCLOSED. 3/ INCLUDES DISTRICT OF COLUMBIA.

TABLE 42--ICE CREAM MIX
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1,000 GALLONS								
ALA	427	427	574	540	540	658	609	611
ARIZ	215	245	306	266	320	315	314	292
ARK	142	152	200	205	241	302	282	282
CALIF	2,980	2,983	3,991	3,719	4,125	4,610	4,295	4,664
COLO	314	342	405	370	430	505	427	513
CONN	513	478	701	720	806	867	890	908
FLA	1,135	1,134	1,434	1,227	1,340	1,582	1,429	1,460
GA	191	203	259	247	290	292	277	297
IDAHO	103	130	149	135	148	172	177	182
ILL	1,348	1,415	1,805	1,542	1,815	2,205	2,033	2,033
IND	830	1,009	1,265	1,065	1,101	1,435	1,160	1,276
IOWA	304	417	536	370	490	561	535	580
KANS	201	207	252	186	272	331	294	309
KY	141	165	233	234	294	282	260	309
LA	322	335	403	370	431	531	458	441
MAINE	137	157	219	189	244	235	239	273
MD 1/	554	555	897	850	887	1,079	1,078	1,076
MASS	1,580	1,371	2,128	1,737	2,067	2,294	2,017	2,261
MICH	1,153	1,302	1,539	1,381	1,653	1,902	1,788	1,928
MINN	1,160	1,185	1,294	1,117	1,413	1,657	1,537	1,532
MISS	144	158	222	223	221	303	263	241
MO	589	630	792	676	746	957	827	844
MONT	70	53	84	61	74	94	93	105
NEBR	276	349	385	401	441	500	526	536
NEV	50	48	59	43	58	62	61	65
N H	36	32	44	42	59	75	79	77
N J	212	178	213	216	286	354	347	378
N MEX	85	90	110	95	137	147	120	148
N Y	2,084	2,371	3,050	2,820	3,330	3,949	3,526	3,425
N C	953	920	1,141	1,191	1,293	1,407	1,404	1,403
N DAK	92	92	114	91	113	125	122	130
OHIO	1,611	1,880	2,276	1,919	2,160	2,599	2,212	2,424
OKLA	271	278	363	383	420	466	488	474
OREG	293	310	378	312	364	389	392	515
PA	2,379	2,633	2,982	2,797	3,355	3,574	3,413	3,973
R I	40	43	58	68	80	99	83	79
S C	597	531	686	641	677	913	864	795
S DAK	48	52	67	55	65	73	78	77
TENN	491	552	808	893	937	1,077	1,132	1,083
TEX	1,300	1,313	1,672	1,724	1,925	2,141	1,874	2,136
UTAH	239	276	340	298	326	359	395	408
VT	8	8	17	20	29	36	44	40
VA	278	330	378	392	445	492	535	512
WASH	587	582	697	619	786	788	822	800
W VA	83	87	111	106	120	133	135	130
WIS	657	676	765	713	798	1,022	975	999
OTHER 2/	148	149	177	157	198	181	187	237
U S	27,371	28,833	36,579	33,426	38,350	44,130	41,096	43,261

SEE FOOTNOTES ON PAGE 57.

TABLE 42--ICE CREAM MIX
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL			
	SEP	OCT	NOV	DEC	1977		1978	
	1,000 GALLONS				PLANTS	PRODUCTION	PLANTS	PRODUCTION
	1,000 GALLONS				NUMBER 1,000 GAL		NUMBER 1,000 GAL	
ALA	498	443	455	307	9	6,158	9	6,089
ARIZ	262	256	247	181	8	3,635	7	3,219
ARK	220	221	158	137	9	2,483	9	2,542
CALIF	3,459	3,945	3,343	2,601	47	41,464	43	44,715
COLO	355	372	345	281	15	4,384	16	4,659
CONN	772	825	755	784	11	7,568	12	9,019
FLA	1,436	1,246	1,306	1,291	18	15,257	17	16,020
GA	232	221	194	180	11	3,005	10	2,883
IDAHO	127	155	128	78	7	1,673	6	1,684
ILL	1,950	1,602	1,450	1,389	36	21,500	34	20,587
IND	1,255	1,000	853	812	21	13,554	21	13,061
IOWA	491	476	421	372	18	5,088	18	5,553
KANS	285	251	241	173	10	3,817	9	3,002
KY	236	204	198	154	11	2,932	11	2,710
LA	428	347	292	259	18	5,440	18	4,617
MAINE	211	142	26	36	10	2,672	13	2,108
MD 1/	997	852	715	629	13	9,310	11	10,169
MASS	1,728	1,548	1,487	1,484	28	22,529	29	21,702
MICH	1,596	1,374	1,191	1,098	37	17,122	33	17,905
MINN	1,422	1,245	1,279	1,142	9	14,824	8	15,983
MISS	226	172	131	130	8	2,568	9	2,434
MO	740	701	536	538	18	8,987	16	8,576
MONT	56	78	57	49	11	791	12	874
NEBR	461	464	377	343	10	5,064	10	5,059
NEV	48	49	43	30	3	642	3	616
N H	44	40	40	33	7	528	7	601
N J	238	166	157	134	13	6,053	12	2,879
N MEX	118	111	108	115	4	1,139	3	1,384
N Y	2,639	2,323	1,990	2,131	53	33,249	56	33,638
N C	1,171	990	874	746	21	13,374	19	13,493
N DAK	93	97	92	70	11	1,283	11	1,231
OHIO	2,158	1,943	1,780	1,548	52	23,709	49	24,510
OKLA	395	400	286	241	13	4,299	14	4,465
OREG	320	339	305	271	19	3,825	20	4,188
PA	3,498	3,079	2,661	2,780	69	34,823	64	37,124
R I	63	57	65	37	8	747	8	772
S C	729	610	389	366	6	7,788	6	7,798
S OAK	63	58	52	47	6	744	5	735
TENN	792	741	617	491	18	9,562	16	9,614
TEX	1,781	1,741	1,334	984	36	19,531	31	19,925
UTAH	318	344	279	245	11	3,489	12	3,827
VT	18	15	30	5	7	268	6	270
VA	430	387	330	273	10	4,636	8	4,782
WASH	749	645	561	585	17	8,578	16	8,221
W VA	114	100	91	68	7	1,255	7	1,278
WIS	857	709	638	636	30	9,065	31	9,445
OTHER 2/	169	172	148	136	9	1,938	8	2,059
U S	36,248	33,256	29,055	26,420	823	412,350	793	418,025

1/ INCLUDES DISTRICT OF COLUMBIA.

2/ STATES NOT SHOWN WHEN LESS THAN 3 PLANTS REPORTED OR INDIVIDUAL PLANT OPERATIONS MIGHT BE DISCLOSED.

TABLE 43--ICE MILK MIX 1/
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
	1,000 GALLONS							
ALA	322	291	475	485	506	583	525	506
ARIZ	152	174	230	227	259	253	227	243
ARK	101	119	188	207	228	265	246	245
CALIF	1,120	1,249	1,535	1,436	1,816	1,819	1,724	1,860
COLO	171	202	293	289	340	416	402	425
CONN 2/								
FLA	550	636	873	766	792	929	832	767
GA	289	300	428	378	449	560	496	473
IDAHO	41	39	51	60	69	82	83	83
ILL	544	591	988	1,022	1,330	1,452	1,401	1,403
IND	219	298	413	512	590	595	634	607
IOWA	136	159	261	290	402	442	425	426
KANS	133	169	304	280	371	443	391	417
KY	83	104	189	219	262	310	299	291
LA	125	131	177	177	210	225	195	182
MAINE	29	34	56	70	81	68	82	76
MASS	274	246	337	369	450	531	562	498
MICH	312	361	581	723	1,038	1,083	1,060	1,087
MINN	145	187	320	366	536	525	507	495
MISS	98	116	168	187	205	243	210	205
MO	286	254	352	415	501	579	604	586
MONT	31	42	75	71	97	117	117	113
NEBR	96	116	173	201	274	320	282	320
NEV	46	47	56	51	65	65	65	74
N J	100	112	182	145	205	197	168	200
N MEX	45	45	60	65	76	84	72	54
N Y	385	390	634	612	748	846	910	870
N C	343	387	543	581	664	762	738	759
N DAK	16	27	38	43	60	66	64	63
OHIO	544	643	1,106	1,255	1,703	1,973	1,904	1,834
OKLA	145	157	225	253	274	300	269	278
OREG	163	182	246	219	285	317	308	320
PA	424	481	752	797	1,111	1,217	1,222	1,192
R I	3	2	6	9	10	20	20	19
S C	191	152	311	210	315	355	353	392
S DAK	24	31	58	62	91	91	87	89
TENN	181	197	334	355	379	421	445	435
TEX	409	436	634	618	769	788	738	707
UTAH	122	135	179	161	216	252	255	236
VT	15	18	22	25	40	40	49	31
VA	243	267	396	461	549	583	639	656
WASH	367	369	499	453	514	620	585	574
W VA	36	48	83	120	142	167	154	152
WIS	180	237	337	334	472	571	494	533
OTHER 2/	383	420	536	558	693	771	739	701
U S	9,622	10,601	15,704	16,137	20,187	22,346	21,582	21,477

SEE FOOTNOTES ON PAGE 59.

TABLE 43--ICE MILK MIX 1/
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL			
	SEP	OCT	NOV	DEC	1977	1978	1977	1978
	1,000 GALLONS				PLANTS	PRODUCTION	PLANTS	PRODUCTION
					NUMBER	1,000 GAL	NUMBER	1,000 GAL
ALA	403	373	408	292	18	4,850	17	5,169
ARIZ	240	244	188	171	7	2,066	6	2,608
ARK	200	194	155	127	10	2,373	10	2,275
CALIF	1,485	1,554	1,329	1,095	52	19,109	44	18,022
COLO	288	288	209	161	16	3,457	16	3,484
CONN 2/					7	1,771		
FLA	753	684	667	663	24	8,381	22	8,912
GA	426	384	357	301	19	4,377	13	4,841
IDAHO	61	64	40	32	7	714	7	705
ILL	1,159	859	739	618	40	12,859	36	12,106
IND	441	316	206	213	23	5,270	22	5,044
IOWA	312	219	170	134	22	2,581	24	3,376
KANS	329	276	199	167	17	2,823	15	3,479
KY	242	191	159	131	16	2,274	16	2,480
LA	161	164	150	122	20	2,188	20	2,019
MAINE	52	61	19	4	11	739	11	632
MASS	319	300	244	285	14	5,075	17	4,415
MICH	708	547	474	306	31	8,277	31	8,280
MINN	343	243	152	140	9	3,750	12	3,959
MISS	187	151	127	117	14	2,113	17	2,014
MO	515	416	289	280	20	5,948	17	5,077
MONT	64	65	49	49	14	771	11	890
NEBR	213	199	164	111	14	2,307	10	2,469
NEV	64	44	45	36	3	652	3	658
N J	157	149	122	112	11	1,717	8	1,849
N MEX	64	57	45	36	4	647	3	703
N Y	656	538	433	457	34	7,855	33	7,479
N C	642	532	420	367	20	6,428	19	6,738
N DAK	44	36	26	23	10	510	7	506
OHIO	1,344	968	790	667	58	14,579	55	14,731
OKLA	230	245	175	147	14	2,737	14	2,698
OREG	227	256	181	169	19	2,650	19	2,873
PA	758	595	531	415	58	9,943	54	9,495
R I	14	3	4	3	5	175	5	113
S C	247	270	112	125	10	3,231	10	3,033
S DAK	51	37	28	19	7	755	6	668
TENN	313	269	189	158	17	4,053	16	3,676
TEX	620	590	480	406	38	7,315	34	7,195
UTAH	145	173	117	96	12	2,185	12	2,087
VT	29	22	3	21	6	314	5	315
VA	562	468	395	365	15	5,470	14	5,584
WASH	447	412	357	327	20	5,672	19	5,524
W VA	105	80	59	43	9	1,253	8	1,189
WIS	375	295	228	186	18	3,471	22	4,242
OTHER 2/	587	531	412	415	25	4,874	29	6,746
U S	16,582	14,362	11,646	10,112	838	190,559	789	190,358

1/ INCLUDES MILKSHAKE MIX.

2/ STATES NOT SHOWN WHEN LESS THAN 3 PLANTS REPORTED OR INDIVIDUAL PLANT OPERATIONS MIGHT BE DISCLOSED.

TABLE 44--MILK SHERBET MIX
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
	1,000 GALLONS							
ALA	29	26	36	47	47	55	46	43
ARIZ	15	18	22	21	22	29	32	30
ARK	12	13	15	17	19	23	24	25
CALIF	243	220	316	277	349	422	344	358
COLO	32	22	33	28	35	47	36	43
CONN	15	11	22	24	24	32	36	32
FLA	65	63	93	80	109	114	121	105
GA	10	10	26	27	28	23	26	25
IDAHO	6	9	11	10	10	14	17	14
ILL	103	104	151	154	134	202	158	159
IND	99	86	95	100	115	154	118	112
IOWA	42	38	64	41	65	78	66	82
KANS	19	11	32	30	36	35	30	28
KY	17	20	28	29	34	38	32	27
LA	30	28	37	34	39	49	46	39
MD 1/	44	47	73	65	77	122	102	100
MASS	157	56	132	123	129	240	150	144
MICH	68	84	95	86	116	144	125	96
MINN	60	72	92	73	105	92	74	97
MISS	16	12	21	20	22	31	24	25
MO	47	46	67	70	75	82	91	80
MONT	1	1	1	9	2	6	7	5
NEBR	10	10	10	11	19	21	21	22
NEV	3	3	4	4	4	6	6	7
N H	2	4	7	5	7	8	7	8
N J	11	4	9	9	21	17	15	20
N Y	95	89	141	164	164	259	283	271
N C	75	60	94	96	128	129	121	128
N DAK	4	5	7	8	7	10	8	9
OHIO	105	119	166	165	214	250	242	222
OKLA	18	19	31	27	36	39	44	29
OREG	27	18	19	35	29	24	33	29
PA	120	92	151	160	221	258	233	250
R I	7	6	7	9	17	19	12	12
S C	83	57	57	93	91	150	125	127
TENN	53	35	63	85	78	98	99	92
TEX	114	101	169	148	205	251	211	199
UTAH	21	22	30	21	28	39	36	45
WASH	57	75	109	93	93	133	117	101
W VA	5	6	9	9	9	10	10	10
WIS	30	30	58	42	49	75	49	51
OTHER 2/	65	66	84	106	108	139	141	159
U S	2,035	1,818	2,687	2,655	3,120	3,967	3,518	3,460

SEE FOOTNOTES ON PAGE 61.

TABLE 44--MILK SHERBET MIX
PRODUCTION BY STATES, BY MONTHS, 1978 AND ANNUAL 1977 AND 1978

STATE	1978				ANNUAL			
	SEP	OCT	NOV	DEC	1977		1978	
	1,000 GALLONS				PLANTS	PRODUCTION	PLANTS	PRODUCTION
	1,000 GALLONS				NUMBER	1,000 GAL	NUMBER	1,000 GAL
ALA	35	38	31	25	8	500	7	458
ARIZ	24	20	20	14	5	277	4	267
ARK	20	16	12	11	6	207	6	207
CALIF	259	336	238	167	38	3,594	33	3,529
COLO	23	33	23	19	9	375	10	374
CONN	21	30	29	40	9	453	9	316
FLA	103	83	68	64	13	1,086	12	1,068
GA	22	17	15	15	10	230	8	244
IDAHO	8	8	7	6	5	129	4	120
ILL	159	111	101	107	30	1,755	25	1,643
IND	112	111	87	60	17	1,334	18	1,249
IOWA	57	48	34	34	10	651	11	649
KANS	26	24	23	21	8	364	7	315
KY	32	25	17	26	7	330	7	325
LA	43	27	27	18	15	468	15	417
MD 1/	88	59	42	40	9	837	9	859
MASS	105	53	82	66	20	1,625	22	1,437
MICH	78	76	72	72	27	1,268	24	1,112
MINN	89	86	86	64	9	962	8	990
MISS	20	15	12	10	7	236	8	228
MO	65	75	46	57	16	701	14	801
MONT	5	2	6	1	7	37	9	46
NEBR	18	21	24	12	9	197	7	199
NEV	3	4	3	3	3	49	3	50
N H	4	4	7	6	4	52	5	69
N J	11	5	7	3	7	269	6	132
N Y	178	136	89	115	33	1,777	32	1,984
N C	109	73	64	52	16	1,144	15	1,129
N DAK	7	5	4	5	7	81	6	79
OHIO	151	135	96	122	38	2,142	36	1,987
OKLA	38	30	18	13	10	283	10	342
OREG	22	14	15	18	14	357	14	283
PA	160	123	116	119	46	1,867	44	2,003
R I	9	8	8	8	7	128	7	122
S C	85	93	41	37	5	1,043	5	1,039
TENN	71	56	45	40	14	858	13	815
TEX	155	153	104	70	33	1,986	26	1,880
UTAH	24	22	19	16	11	293	11	323
WASH	71	80	61	83	14	926	15	1,073
W VA	9	9	9	7	5	111	4	102
WIS	36	30	39	34	14	460	16	523
OTHER 2/	98	71	61	40	22	947	21	1,138
U S	2,653	2,365	1,908	1,740	597	32,389	566	31,926

1/ INCLUDES DISTRICT OF COLUMBIA.

2/ STATES NOT SHOWN WHEN LESS THAN 3 PLANTS REPORTED OR INDIVIDUAL PLANT OPERATIONS MIGHT BE DISCLOSED.

TABLE 45--FROZEN DAIRY PRODUCTS: PRODUCTION, HARD AND SOFT, BY STATES, 1978

STATE	TOTAL FROZEN PRODUCTS 1/					ICE CREAM				ICE MILK 3/				
	PRODUCTION			AS % OF TOTAL		PRODUCTION		AS % OF TOTAL ICE CREAM		PRODUCTION		AS % OF TOTAL ICE MILK		
	TOTAL	HARD	SOFT	HARD	SOFT	HARD	SOFT	HARD	SOFT	HARD	SOFT	HARD	SOFT	
	1,000 GALLONS			PERCENT	PERCENT	1,000 GALLONS		PERCENT	PERCENT	1,000 GALLONS		PERCENT	PERCENT	
ALA	21,775	16,970	4,805	78	22	12,315		100		3,972	4,805	45	55	
ARIZ	11,339	8,429	2,910	74	26	6,439	15	100		2/	2/	2/	2/	
ARK	7,914	5,797	2,117	73	27	4,207	507	88	12	788	1,610	33	67	
CALIF	125,885	105,792	20,093	84	16	88,230		100		8,909	20,093	31	69	
COLO	14,652	10,557	4,095	72	28	8,728		100		1,211	4,095	23	77	
CONN	2/	2/	2/	2/	2/	17,120	1,542	92	8	2/	2/	2/	2/	
FLA	47,764	38,057	9,707	80	20	29,833	1,316	96	4	6,571	8,387	44	56	
GA	13,297	7,114	6,183	54	46	5,759		90	2	972	6,093	14	86	
IDAHO	4,933	3,833	1,100	78	22	3,257		100		407	1,100	27	73	
ILL	59,484	44,738	14,746	75	25	38,907	1,049	97	3	3,139	12,942	20	80	
IND	37,514	32,758	4,756	87	13	26,624		100		4,285	4,535	49	51	
IOWA	18,596	14,729	3,867	79	21	11,376		100		1,260	3,867	25	75	
KANS	11,895	7,858	4,037	66	34	5,969		100		1,413	4,037	26	74	
KY	9,559	6,157	3,402	64	36	5,192		100		456	3,402	12	88	
LA	13,728	10,760	2,968	78	22	9,075		92	99	1	970	2,876	25	75
MAINE	2/	2/	2/	2/	2/	4,191		100		2/	2/	2/	2/	
MD 4/	29,152	22,589	6,563	77	23	19,591	833	96	4	1,709	5,726	23	77	
MASS	51,559	48,251	3,308	94	6	42,335	574	99	1	3,995	2,553	61	39	
MICH	49,574	37,998	11,576	77	23	34,478	431	99	1	1,851	11,097	14	86	
MINN	2/	2/	2/	2/	2/	31,879		100		1,058	4,119	20	80	
MISS	8,491	6,383	2,108	75	25	4,822		100		1,202	2,108	36	64	
MO	30,124	22,947	7,177	76	24	17,412	528	97	3	3,979	6,410	38	62	
MONT	2/	2/	2/	2/	2/	1,680		51	97	3	371	1,125	25	75
NEBR	2/	2/	2/	2/	2/	2/		2/	2/	2/	1,689	2,339	42	58
NEV	2/	2/	2/	2/	2/	1,076		86	93	7	35	971	3	97
N H	2/	2/	2/	2/	2/	1,093		100		2/	2/	2/	2/	
N J	8,337	4,019	4,318	48	52	3,704	2,133	64	36	125	2,159	5	95	
N Y	74,877	60,800	14,077	81	19	53,527	7,707	87	13	4,834	6,035	44	56	
N C	39,034	33,899	5,135	87	13	26,341		100		5,766	5,135	53	47	
N DAK	3,630	2,760	870	76	24	2,432		100		199	870	19	81	
OHIO	73,860	55,013	18,847	74	26	48,675	360	99	1	3,662	18,411	17	83	
OKLA	14,734	11,671	3,063	79	21	8,848	45	99	1	1,853	3,008	38	62	
OREG	13,365	9,268	4,097	69	31	7,824	128	98	2	725	3,969	15	85	
PA	92,648	76,873	15,775	83	17	67,343	3,947	94	6	6,613	11,730	36	64	
R I	2/	2/	2/	2/	2/	1,413		53	96	4	2/	2/	2/	
S C	23,024	21,590	1,434	94	6	14,872		100		5,072	1,434	78	22	
S DAK	981	123	858	13	87	109		100		2/	2/	2/	2/	
TENN	2/	2/	2/	2/	2/	18,849	568	97	3	4,560	2,936	61	39	
TEX	59,538	49,779	9,759	84	16	37,403	32	100		2,835	8,505	25	75	
UTAH	10,766	8,797	1,969	82	18	7,265	57	99	1	1,025	1,905	35	65	
VT	692	171	521	25	75	165	36	82	18	2/	2/	2/	2/	
VA	12,793	9,115	3,678	71	29	7,779	396	95	5	801	3,282	20	80	
WASH	26,279	19,634	6,645	66	34	16,230	27	100		2,270	6,110	27	73	
W VA	5,331	3,066	2,265	58	42	2,520		100		344	2,265	13	87	
WIS	28,369	21,134	7,235	74	26	18,450	435	98	2	1,949	6,645	23	77	
OTH STS 2/	131,749	108,571	22,578	83	17	16,514	199	99	1	3,233	12,448	21	79	
U S	1,186,642	948,000	238,642	80	20	791,851	23,248	97	3	96,108	211,137	31	69	

SEE FOOTNOTES ON PAGE 63.

TABLE 45--FROZEN DAIRY PRODUCTS: PRODUCTION, HARD AND SOFT, BY STATES 1978

STATE	MILK SHERBET				MELLORINE				PERCENT TOTAL SOFT PRODUCTS SOLD AS:			
	PRODUCTION		AS % OF TOTAL		PRODUCTION		AS % OF TOTAL		ICE CREAM	ICE MILK	MILK SHERBET	MELLORINE
	HARD	SOFT	HARD	SOFT	HARD	SOFT	HARD	SOFT				
	1,000 GALS	PERCENT	1,000 GALS	PERCENT	1,000 GALS	PERCENT	PERCENT					
ALA	683		100							100		
ARIZ	410		100		2/	2/		1		99		
ARK	334		100		468	100		24		76		
CALIF	5,232		100		3,421	100				100		
COLO	618		100							100		
CONN	462		100					32		68		
FLA	1,653	4	100					14		86		
GA	383		100					1		99		
IDAHO	169		100							100		
ILL	2,493		100		199	755	20	80	7	88		5
IND	1,849		100			221	100			95		5
IOWA	897		100		1,196		100			100		
KANS	476		100							100		
KY	509		100							100		
LA	683		100		32		100		3	97		
MAINE	442		100						3	97		
MD 4/	1,289	4	100					13		87		
MASS	1,921	181	92	8				17		78		5
MICH	1,669	48	97	3				4		96		
MINN	1,225	282	81	19	2/	2/				94		6
MISS	359		100							100		
MO	1,223	45	96	4	333	194	63	37	7	89	1	3
MONT	86		100		2/	2/			4	96		
NEBR	316		100						1	99		
NEV	82		100		2/	2/			8	92		
N H	108		100							100		
N J	190	26	88	12					49	50	1	
N Y	2,439	335	88	12					55	43	2	
N C	1,792		100							100		
N DAK	129		100							100		
OHIO	2,676	76	97	3					2	98		
OKLA	524		100		446	10	98	2	1	99		
OREG	458		100		261		100		3	97		
PA	2,917	98	97	3					25	74	1	
R I	56	74	43	57					29	31	40	
S C	1,646		100							100		
S DAK	2/		2/							100		
TENN	1,247		100		2/	2/			16	84		
TEX	2,737	77	97	3	6,804	1,145	86	14		87	1	12
UTAH	507	7	9	1					3	97		
VT	2/	2/	2/	2/					7	93		
VA	535		100						11	89		
WASH	1,134	508	69	31						92	8	
W VA	202		100							100		
WIS	735	155	83	17					6	92	2	
OTH STS 2/	607	12	98	2	779		100					
U S	46,102	1,932	96	4	13,939	2,325	83	17	10	88	1	1

1/ INCLUDES ICE CREAM, ICE MILK, MILK SHERBET, AND MELLORINE, 2/ STATES NOT SHOWN WHEN LESS THAN 3 PLANTS REPORTED OR INDIVIDUAL PLANT OPERATIONS MIGHT BE DISCLOSED. 3/ INCLUDES FREEZER-MADE MILKSHAKE. SEE FOOTNOTES ON TABLE 37. 4/ INCLUDES DISTRICT OF COLUMBIA. 5/ INCLUDED IN "OTHER STATES" TOTAL FOR COMPUTATION PURPOSES.

TABLE 46--WHOLE MILK EQUIVALENT USED IN MANUFACTURED DAIRY PRODUCTS: CALCULATED QUANTITIES USED IN SPECIFIED PRODUCTS, ON A WHOLE MILK BASIS, BY STATES, 1978 1/

STATE	BUTTER	CHEESE		EVAPORATED AND:	CONDENSED	CONDENSED
		AMERICAN	OTHER THAN AMERICAN	CONDENSED WHOLE MILK CASE	WHOLE MILK (UNSWEETENED) BULK	WHOLE MILK (SWEETENED) BULK
1,000 POUNDS						
ALA						
ARIZ						
ARK		89,724	65,826			
CALIF	3,181,136	155,998	571,053			
COLO	117,815					
CONN			29,432			
DEL						
FLA						
GA						
IDAHO	166,100	693,118	223,482			
ILL	82,811	66,468	681,811			
IND	269,973	279,210	21,627			
IOWA	791,549	911,552	597,908			
KANS	296,603	238,092	15,836			
KY	311,467	443,700	124,185			
LA						
MAINE						
MD						
MASS			38,120			
MICH	637,073	207,152	64,282			
MINN	3,905,457	3,872,509	419,917			
MISS		95,717				
MO	497,692	504,616	298,654			
MONT	44,680					
NEBR		294,686	123,433			
NEV						
N H						
N J			87,398			
N MEX						
N Y	806,676	829,775	1,160,332		92,493	
N C						
N DAK	140,195	507,504				
OHIO	666,523	342,806	470,270	287,520		
OKLA	556,331	28,686				
OREG	307,755	263,746				
PA	848,075	348,656	357,406		71,016	
R I			8,689			
S C						
S DAK	234,587	436,703	110,810			
TENN	457,824	186,477	95,871			
TEX			4,085			
UTAH	108,729	415,962	205,254			
VT	112,358	227,563	281,192			
VA						
WASH	664,216	237,905	68,946			
W VA						
WIS	5,502,000	8,618,845	2,964,800		52,480	145,787
U S 4/	22,372,228	20,737,226	9,180,411	1,725,089	348,102	186,030

SEE FOOTNOTES ON PAGE 65.

TABLE 46--WHOLE MILK EQUIVALENT USED IN MANUFACTURED DAIRY PRODUCTS: CALCULATED QUANTITIES USED IN SPECIFIED PRODUCTS, ON A WHOLE MILK BASIS, BY STATES, 1978 ^{1/}

STATE	DRY WHOLE MILK	ICE CREAM AND OTHER FROZEN PRODUCTS	OTHER MILK PRODUCTS ^{2/}	TOTAL	DUPLICATIONS	NET TOTAL ^{3/}
1,000 POUNDS						
ALA		238,033	29,070	267,103	52,687	214,416
ARIZ		132,083	242,319	374,402	13,490	360,912
ARK		80,391	68,320	304,261	18,890	285,371
CALIF		1,519,474	421,414	5,849,075	278,131	5,570,944
COLO		178,067	35,295	331,177	7,056	324,121
CONN		304,162	198,136	531,730	18,091	513,639
DEL		13,135	13,135	13,135	1,388	11,747
FLA		577,665	19,683	597,348	181,176	416,172
GA		138,521	91,146	229,667	23,749	205,918
IDAHO		62,340	71,309	1,216,349	88,682	1,127,667
ILL		631,514	158,352	1,620,956	196,432	1,424,524
IND		409,040	38,053	1,017,903	73,385	944,518
IOWA		219,918	16,875	2,537,802	150,497	2,387,305
KANS		129,288	44,794	707,738	24,052	683,686
KY		100,408	182,227	1,161,987	51,723	1,110,264
LA		158,273	68,395	226,668	9,958	216,710
MAINE		65,410	23,142	88,552	19,327	69,225
MD		326,206	638,374	964,580	106,493	858,087
MASS		675,123	163	713,406	189,888	523,518
MICH		575,393	79,566	1,563,466	70,402	1,493,064
MINN	169,695	452,604	38,366	8,858,548	362,741	8,495,807
MISS		89,865	81,464	267,046	10,568	256,478
MO		317,610	284,039	1,902,611	51,015	1,851,596
MONT		35,877	31,731	122,288	5,735	106,553
NEBR		169,414	423,951	1,011,484	84,620	926,864
NEV		27,122	940	28,062	946	27,116
N H		20,641	26	20,667	5,961	14,706
N J		106,504	352	194,254	19,314	17,494
N MEX			62,046	62,046	2,026	60,020
N Y		1,014,543	506,704	4,410,523	522,399	3,888,124
N C		470,357	118,175	588,532	192,288	396,244
N DAK		40,919	4,485	693,103	52,484	640,619
OHIO		822,022	91,860	2,681,001	160,779	2,520,222
OKLA		174,286	13,305	772,608	29,227	743,381
OREG		142,847	50,183	764,531	30,653	733,878
PA		1,118,048	426,417	3,169,618	121,763	3,047,855
R I		21,120		29,809	6,910	39,291
S C		264,637	259	264,896	106,373	158,523
S DAK		8,436	123,827	914,357	49,095	865,262
TENN		316,729	177,613	1,234,514	68,570	1,165,944
TEX		619,662	178,770	802,517	61,839	740,678
UTAH		135,508	8,814	874,267	107,181	767,086
VT		6,666	18,021	645,800	71,046	574,754
VA		143,726	314,811	458,537	37,367	421,170
WASH		295,703	38,356	1,305,126	41,166	1,263,960
W VA		53,838	3,135	56,973	1,688	55,285
WIS		308,053	508,082	18,100,047	965,826	17,134,321
U S ^{4/}	548,847	13,834,900	1,762,744	70,695,577	4,775,607	65,919,970

^{1/} PRODUCTS MANUFACTURED IN EACH STATE DO NOT NECESSARILY SHOW UTILIZATION OF MILK PRODUCED IN THE STATE, BECAUSE OF INTERSTATE SHIPMENTS OF MILK. NO ADJUSTMENT HAS BEEN MADE FOR SHIPMENTS OF MILK AND CREAM BETWEEN STATES DIFFERING IN THE TEST OF MILK PRODUCED. ^{2/} MILK EQUIVALENT OF OTHER DAIRY PRODUCTS, INCLUDING ITEMS PRODUCED BY LESS THAN 3 PLANTS. ^{3/} NET TOTAL ACCOUNTS FOR FAT RECOVERED FROM WHEY CREAM AND USED FOR MAKING BUTTER, AND THE AMOUNT OF FAT FROM BUTTER AND CONDENSED MILK USED IN MAKING ICE CREAM. ^{4/} STATES DO NOT ADD TO U.S. TOTAL. INCLUDES MILK EQUIVALENT FOR STATES NOT SHOWN SEPARATELY.

TABLE 47--SKIM MILK EQUIVALENTS: CALCULATED QUANTITIES USED IN SPECIFIED SKIM MILK AND BUTTERMILK PRODUCTS, BY STATES, 1978 ^{1/}

STATE	COTTAGE CHEESE CURD	SWEETENED	UNSWEETENED	DRY		OTHER PRODUCTS 3/	TOTAL
		CONDENSED SKIM MILK, BULK	CONDENSED SKIM MILK, BULK	BUTTER- MILK	NONFAT MILK 2/		
1,000 POUNDS							
ALA	12,038						12,038
ARIZ						92,312	92,312
ARK						6,381	6,381
CALIF	646,606		328,497	19,514	1,738,363	20,703	2,753,683
COLO	78,875					2,805	81,680
CONN						120,034	120,034
GA						9,788	9,788
IDAHO	14,706				83,446	3,868	102,020
ILL	184,088					3,079	187,167
IND	112,306					189,028	301,334
IOWA	60,394			29,656	855,030	24,042	969,122
KANS	87,813					230,639	318,452
KY						121,352	121,352
LA						93,724	93,724
MAINE	87,838					35,742	123,580
MD 4/						587,194	587,194
MASS						198,525	198,525
MICH	219,756		197,697	22,990	538,318		978,761
MINN	65,831			129,415	1,931,171	63,561	2,189,978
MO	121,650					113,232	234,882
MONT	15,238						15,238
NEBR	41,494					181,661	223,155
NEV						4,928	4,928
N MEX	34,244						34,244
N Y	638,419		266,514	13,508	491,315	13,467	1,423,223
N C	27,994						27,994
N DAK	18,500			4,587	55,275		78,362
OHIO	322,788		141,588		377,663	3,534	845,573
OKLA	47,625				119,405	27,977	195,007
OREG	67,419					136,674	204,093
PA	248,581		212,259		209,539	12,966	683,345
S DAK					398,299	38,861	437,160
TENN	30,613					98,641	129,254
TEX	108,869					102,281	211,150
UTAH	33,006					14,487	47,493
VT	103,338					197,804	301,142
VA	35,675					116,944	152,619
WASH	149,225					504,189	653,414
W VA	11,188						11,188
WIS	290,400	102,696	342,591	195,459	1,218,041	57,633	2,206,820
U S 5/	4,302,500	133,902	2,151,627	523,743	10,196,010	149,721	17,457,503

^{1/} 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: COTTAGE CHEESE CURD, 6.25; DRY BUTTERMILK AND NONFAT DRY MILK, 11; CASE AND BULK SWEETENED CONDENSED SKIM MILK, BULK UNSWEETENED CONDENSED SKIM MILK, AND CONDENSED OR EVAPORATED BUTTERMILK, 3.0.

^{2/} INCLUDES DRY SKIM MILK FOR ANIMAL FEED.

^{3/} STATE TOTALS INCLUDE ITEMS PRODUCED BY LESS THAN 3 PLANTS. THESE ARE INCLUDED IN THE PROPER COLUMNS IN U.S. TOTALS.

^{4/} INCLUDES DISTRICT OF COLUMBIA.

^{5/} STATES DO NOT ADD TO U.S. TOTAL. INCLUDES MILK EQUIVALENT FOR STATES NOT SHOWN SEPARATELY.

TABLE 48--NET WHOLE MILK EQUIVALENTS USED IN MANUFACTURED DAIRY PRODUCTS: TOTAL AND PERCENTAGE DISTRIBUTION BY MAJOR PRODUCTS, UNITED STATES, 1969-78

YEAR	TOTAL	PERCENTAGE DISTRIBUTION					TOTAL
		BUTTER	ALL WHOLE MILK AND PART SKIM CHEESE	EVAPORATED AND CONDENSED MILK	ICE CREAM AND OTHER FROZEN PRODUCTS	OTHER MILK PRODUCTS	
	MILLION POUNDS	PERCENT					
1969	58,228	40.6	30.3	6.6	18.9	3.6	100.0
1970	60,013	39.9	32.6	5.4	18.4	3.7	100.0
1971	61,614	38.8	34.0	5.3	17.8	4.1	100.0
1972	62,319	36.5	36.7	5.0	17.6	4.2	100.0
1973	58,678	31.7	40.2	5.0	18.9	4.2	100.0
1974	61,327	31.5	41.9	4.6	18.2	3.8	100.0
1975	60,524	32.8	39.5	4.5	19.7	3.5	100.0
1976	64,673	30.0	44.5	3.9	18.0	3.6	100.0
1977	67,068	32.6	43.0	3.6	17.4	3.4	100.0
1978	65,920	29.9	45.4	3.4	17.8	3.5	100.0

TABLE 49--SKIM MILK EQUIVALENTS OF CERTAIN SKIM-MILK AND BUTTERMILK PRODUCTS, UNITED STATES, 1969-78

YEAR	FULL-SKIM AMERICAN CHEESE	COTTAGE CHEESE CURD	CONDENSED SKIM MILK	NONFAT DRY MILK	CONDENSED AND DRIED BUTTERMILK	TOTAL 1/
MILLION POUNDS						
1969	56	4,246	2,968	16,113	773	24,160
1970	64	4,540	3,048	16,016	671	24,367
1971	55	4,657	3,117	15,719	600	24,203
1972	67	4,901	2,941	13,599	596	22,217
1973	67	4,769	2,682	10,188	510	18,241
1974	2/	4,310	2,195	11,281	547	18,334
1975	2/	4,381	2,278	11,103	546	18,389
1976	2/	4,445	2,349	10,253	578	17,720
1977	2/	4,278	2,563	12,260	677	19,777
1978	2/	4,303	2,317	10,196	642	17,458

1/ INCLUDES OTHER SKIM MILK MINOR PRODUCTS. 2/ DISCONTINUED.

TABLE 50--ICE MILK: PERCENTAGE DISTRIBUTION HARD AND SOFT PRODUCTION, BY MONTHS, BY REGIONS, AND UNITED STATES, 1978

REGION AND KIND	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR 2/	
PERCENT														
N ATL	HARD:	6	7	9	9	10	11	10	10	9	7	6	6	39
	SOFT:	4	5	8	8	11	13	14	13	8	6	5	5	61
E N CENT	HARD:	6	7	9	9	9	12	11	11	9	7	5	5	22
	SOFT:	4	4	7	9	12	13	13	13	9	7	5	4	78
W N CENT	HARD:	6	7	8	8	10	11	11	11	9	8	6	5	30
	SOFT:	4	5	7	9	12	12	13	13	9	7	5	4	70
S ATL	HARD:	6	7	9	8	9	11	11	10	9	8	6	6	39
	SOFT:	5	6	8	9	10	11	11	11	9	8	6	6	61
S CENT	HARD:	6	7	9	9	10	12	10	10	9	8	6	4	36
	SOFT:	5	5	9	9	10	11	11	11	8	8	7	6	64
WEST	HARD:	6	7	9	9	10	11	10	11	8	8	6	5	27
	SOFT:	6	6	8	8	10	11	11	11	8	8	7	6	73
U S 1/	HARD:	6	7	9	9	10	11	10	10	9	8	6	5	31
	SOFT:	5	5	8	8	11	12	12	12	9	7	6	5	69

1/ ALASKA AND HAWAII INCLUDED. 2/ PERCENT PRODUCT OF TOTAL, BY REGIONS.

TABLE 51--NUMBER OF DAIRY PLANTS MANUFACTURING ONE OR MORE DAIRY PRODUCTS, 1974-78

STATE	1974	1975	1976	1977 ^{1/}	1978
ALA	24	23	23	23	23
ALAS	2	2	2	3	2
ARIZ	16	16	15	15	14
ARK	15	14	14	14	14
CALIF	285	277	275	275	271
COLO	36	40	34	33	34
CONN	42	42	36	40	41
DEL	3	2	2	2	2
FLA	36	35	30	27	24
GA	24	23	23	23	23
HAW	5	5	5	5	5
IDAHO	33	32	31	30	26
ILL	112	110	110	102	92
IND	54	53	49	51	47
IOWA	78	69	66	68	61
KANS	38	34	31	30	30
KY	43	43	40	41	36
LA	37	30	29	28	25
MAINE	25	24	24	24	24
MD ^{2/}	29	28	23	21	19
MASS	64	66	59	58	59
MICH	91	83	79	77	73
MINN	122	120	114	109	99
MISS	20	20	21	24	24
MO	64	60	60	49	42
MONT	33	28	28	24	22
NEBR	42	42	41	36	31
NEV	3	3	3	3	3
N H	15	15	15	15	12
N J	38	30	30	31	30
N MEX	6	6	5	5	5
N Y	201	185	181	185	174
N C	30	29	28	27	26
N DAK	44	40	34	33	32
OHIO	135	124	122	118	114
OKLA	24	24	24	24	21
OREG	31	30	30	29	28
PA	145	132	127	129	121
R I	12	15	16	19	17
S C	10	10	10	10	12
S DAK	36	35	34	33	29
TENN	53	42	41	39	39
TEX	75	68	64	58	48
UTAH	28	24	23	22	23
VT	25	25	25	24	25
VA	29	27	27	24	21
WASH	38	39	38	37	38
W VA	13	13	12	12	11
WIS	562	550	530	^{3/} 468	455
WYO	14	14	12	12	10
U S	2,934	2,801	2,695	2,589	2,457

^{1/} REVISED.

^{2/} INCLUDES DISTRICT OF COLUMBIA.

^{3/} NOT COMPARABLE WITH PRIOR YEARS.

WHOLE MILK USED FOR DAIRY PRODUCTS - HISTORICAL

A historical review of whole milk used in manufactured dairy products is shown in the chart on page 5. The portion of milk utilized for butter has trended downward since 1960 with a low of 18.6 billion pounds in 1973. The volume of milk that moved into cheese production continued its trend upward, from 13.4 billion pounds in 1960 to a record 29.9 billion in 1978. Milk for cheese surpassed utilization for butter for the first time in history in 1972 and continued through 1978. Milk utilized for all other dairy products varied only slightly during the 1960-78 period.

MILK USED FOR MANUFACTURED DAIRY PRODUCTS AS PERCENT OF TOTAL MILK MARKETED, 1961-78

Whole milk (net whole milk equivalents) utilized for manufactured dairy products followed changes in total marketings of milk and cream by producers during the 1960-78 period. The percentage of marketings utilized for dairy products ranged from a low of 50.6 in 1966 to a high of 56.0 in 1977.

WHEY AND MODIFIED WHEY PRODUCTS

The production series for whey products was expanded in January 1975. Data for whey products are shown in tables 5 and 7.

Total dry whey production increased 13 percent during 1978 to 711 million pounds. Dry whey for animal feed increased 26 percent during 1978 while dry whey production for human use increased 9 percent. Partially delactosed dry whey for animal feed, at 132 million pounds, gained 13 percent over 1977.

Condensed whey, on a solids basis, increased 10 percent from a year earlier, and whey solids in wet blends (animal and human) showed a 41 percent increase.

The data for manufactured dairy products in 1978, given in this report, were compiled from reports made by dairy manufacturers direct to the United States Department of Agriculture and through the co-operating State agencies shown below:

<u>STATE</u>	<u>AGENCY</u>	<u>COLLABORATOR OR COOPERATING STATE OFFICIAL</u>
Alabama	State Department of Agriculture and Industries	McMillan Lane, Commissioner
Alaska	Division of Natural Resources, State Division of Agriculture	Domonik L. Carney, Director
Arkansas	University of Arkansas	J. E. Martin, V. P. Agric.
California	State Department of Food and Agriculture	R. E. Rominger, Director
Colorado	State Department of Agriculture Animal Industry Division	James Banghart, Chief, Dairy Inspection
Florida	Florida Department of Agriculture and Consumer Services	Doyle Conner, Commissioner
Georgia	State Department of Agriculture	Thomas T. Irvin, Commissioner
Hawaii	State Department of Agriculture	John Farias, Jr., Chairman
Idaho	State Department of Agriculture Bureau of Dairying	J. L. Nichols, Chief
Illinois	State Department of Agriculture	John R. Block, Director
Indiana	Agricultural Experiment Station Creamery License Division	P. E. Pritchett, In Charge
Iowa	State Department of Agriculture Dairy Products Control Division	Ray H. Drmond, Supervisor
Kansas	State Board of Agriculture Dairy Division	Brace Rowley, Commissioner
Kentucky	State Department of Agriculture	Thomas O. Harris, Commissioner
Michigan	State Department of Agriculture Dairy Division	Kenneth D. Feighner, Acting Chief
Minnesota	State Department of Agriculture	Mark Seetin, Commissioner
Mississippi	State Department of Agriculture and Commerce	Jim Buck Ross, Commissioner
Missouri	State Department of Agriculture	Jack Runyan, Director
Nebraska	State Department of Agriculture	E. Mickey Stewart, Director
Nevada	State Dairy Commission	William X. Smith, Exec. Director
New Jersey	Division of Dairy Industry New Jersey Department of Agriculture	Woodson W. Moffett, Jr., Director
New York	State Department of Agriculture and Markets Division of Dairy Industry Services	Herbert R. Kling, Director
North Carolina	State Milk Commission	Grady Cooper, Jr., Exec. Secy.
North Dakota	State Department of Agriculture Dairy Division	Philip Park, Dairy Commissioner
Ohio	State Department of Agriculture	John M. Stackhouse, Director
Oklahoma	State Department of Agriculture Dairy Division	George Parker, Director
South Carolina	Agricultural Experiment Station Clemson University	W. C. Godley, Director
Tennessee	Tennessee Department of Agriculture	Clyde M. York, Commissioner
Utah	Director, Division of Food and Consumer Services, Utah Department of Agriculture	Archie S. Hurst, Director
Virginia	Virginia State Department of Agriculture and Commerce Division of Animal Health and Dairies ...	Dr. G. B. Estes, State Veterinarian
Washington	State Department of Agriculture	Bob J. Michkelson, Director
West Virginia	State Department of Agriculture	Gus R. Douglass, Commissioner
Wisconsin	State Department of Agriculture Trade and Consumer Protection	Dr. Gary E. Rohde, Secy.
Wyoming	State Department of Agriculture	Larry Bourret, Commissioner

