

DAIRY PRODUCTS

Released: November 1, 1979
3:00 P.M. ET



Economics, Statistics, &
Cooperatives Service

U.S. Department
of Agriculture

Washington, D.C.
20250

SEPTEMBER HIGHLIGHTS

Butter production was 61.5 million pounds in September, 5 percent below August and 4 percent less than September 1978.

American type cheese totaled 167 million pounds, 8 percent below last month but 14 percent above a year earlier.

Total cheese output (excluding cottage cheese) was 291 million pounds, down 6 percent from the previous month but up 10 percent from the previous year.

Creamed cottage cheese, 66.2 million pounds, down 9 percent from a year ago.

Lowfat cottage cheese, 12.9 million pounds, 1 percent more than a year earlier.

Canned evaporated and condensed whole milk, 62.9 million pounds, up 7 percent from September 1978.

Frozen desserts: (Comparisons with September 1978)

Ice cream -- 70.9 million gallons, unchanged.
Ice milk -- 25.9 million gallons, down 4 percent.
Sherbet -- 3.83 million gallons, down 4 percent.

Dry milk products: (Comparisons with September 1978)

Nonfat dry milk for human food -- 55.6 million pounds, down 3 percent.
Dry whole milk -- 5.35 million pounds, up 13 percent.
Dry buttermilk -- 3.03 million pounds, up 5 percent.

MANUFACTURING GRADE MILK PRICES INCREASE

Butter-powder, \$11.27, up 35 cents from August, and \$1.40 above September 1978.

American cheese, \$11.47, an increase of 30 cents from the previous month and \$1.41 above the previous year.

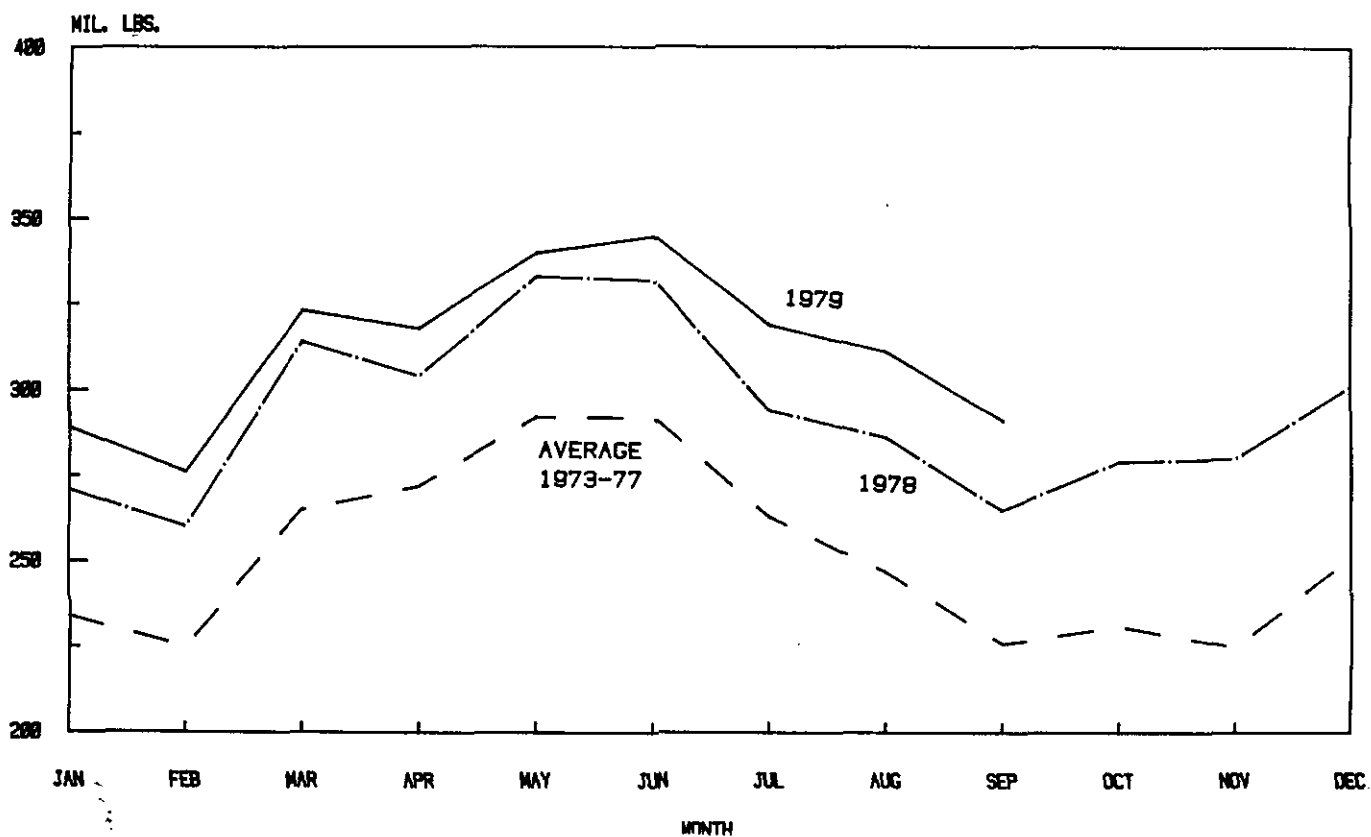
Miscellaneous cheese, \$11.62, up 29 cents from August, and \$1.38 higher than September 1978.

Evaporated milk (canned), \$10.88, 29 cents above last month, and \$1.42 above the previous year.

IN THIS ISSUE

NUMBER OF PLANTS MANUFACTURING DAIRY
PRODUCTS BY PRODUCTION-SIZE GROUPS,
1977

U. S. TOTAL CHEESE PRODUCTION



UNITED STATES TOTAL CHEESE PRODUCTION

MONTH	AVERAGE 1973-77	1978	1979
1,000 POUNDS			
JAN	234,131	271,100	288,866
FEB	224,852	259,927	276,024
MAR	265,198	314,373	322,990
APR	272,303	303,659	317,720
MAY	292,074	332,874	339,664
JUN	291,677	331,938	344,665
JUL	262,681	293,616	318,950
AUG	247,068	286,484	310,881
SEP	225,934	264,992	291,389
OCT	230,692	279,331	
NOV	224,750	279,657	
DEC	251,222	301,387	

WHEY AND MODIFIED WHEY PRODUCTS: PRODUCTION, STOCKS,
AND PRICES, UNITED STATES, SEPTEMBER 1979

PRODUCT	SEP	AUG	SEP	PERCENT OF	
	1978	1979 ^{1/}	1979	SEP	AUG
				1978	1979
	PRODUCTION			PERCENT	
	1,000 POUNDS				
CONDENSED WHEY, SOLIDS CONTENT ^{2/}					
SWEET-TYPE, HUMAN FOOD	8,984	7,906	6,312	70	80
SWEET-TYPE, ANIMAL FEED	2,511	2,213	1,753	70	79
ACID-TYPE, HUMAN FOOD AND ANIMAL FEED	^{4/}	^{4/}	^{4/}		
DRY WHEY PRODUCTS					
DRY WHEY, HUMAN FOOD	36,298	43,630	39,593	109	91
DRY WHEY, ANIMAL FEED	16,996	16,492	13,807	81	84
PARTIALLY DELACTOSED					
HUMAN FOOD	2,150	3,002	3,136	146	104
ANIMAL FEED	11,119	7,919	7,901	71	100
PARTIALLY DEMINERALIZED					
HUMAN FOOD	2,998	2,511	2,602	87	104
ANIMAL FEED	^{3/}	^{3/}	^{3/}		
PARTIALLY DELACTOSED/DEMINERALIZED,					
HUMAN FOOD	466	935	606	130	65
ANIMAL FEED	^{4/}	^{4/}	^{4/}		
LACTOSE, HUMAN FOOD	7,722	8,328	7,675	99	92
LACTOSE, ANIMAL FEED	400	950	895	224	94
WHEY SOLIDS IN WET BLENDS					
HUMAN FOOD	3,199	3,264	2,897	91	89
ANIMAL FEED	4,876	5,597	5,130	105	92
	MANUFACTURERS' STOCKS, END OF MONTH ^{5/}			PERCENT	
	1,000 POUNDS				
DRY WHEY PRODUCTS					
DRY WHEY AND PARTIALLY DELACTOSED					
HUMAN FOOD ^{6/}	32,676	44,771	40,082	123	90
ANIMAL FEED ^{6/}	27,679	30,893	29,221	106	95
PARTIALLY DEMINERALIZED					
HUMAN FOOD	2,170	1,988	2,193	101	110
PARTIALLY DELACTOSED/DEMINERALIZED,					
HUMAN FOOD	759	1,987	1,963	259	99
ANIMAL FEED	^{4/}	^{4/}	^{4/}		
LACTOSE, HUMAN FOOD	11,263	8,502	7,261	64	85
LACTOSE, ANIMAL FEED	^{4/}	^{4/}	^{4/}		
	MANUFACTURERS' SELLING PRICE ^{7/}			CENTS CHANGE	
	CENTS PER POUND				
CONDENSED WHEY SOLIDS ^{2/}					
SWEET-TYPE, HUMAN FOOD	8.1	5.6	6.2	- 1.9	+ 0.6
SWEET-TYPE, ANIMAL FEED	^{4/}	^{4/}	^{4/}		
ACID-TYPE, HUMAN FOOD	^{3/}	^{3/}	^{3/}		
ACID-TYPE, ANIMAL FEED	^{4/}	^{4/}	^{4/}		
DRY WHEY, HUMAN FOOD	14.0	10.0	10.4	- 3.6	+ 0.4
DRY WHEY, ANIMAL FEED	11.7	8.1	8.4	- 3.3	+ 0.3

^{1/} REVISED.

^{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/} NONE REPORTED.

^{4/} NOT PUBLISHED TO AVOID DISCLOSURE OF INDIVIDUAL PLANT OPERATIONS.

^{5/} STOCKS HELD BY MANUFACTURERS AT ALL POINTS AND IN TRANSIT.

^{6/} DRY WHEY AND PARTIALLY DELACTOSED WHEY STOCKS COMBINED TO AVOID DISCLOSURE OF INDIVIDUAL OPERATIONS.

^{7/} PRICES FOR BULK GOODS, F.O.B. PLANT. AVERAGE MONTHLY PRICES REPORTED BY FIRMS.

PRODUCTION OF DAIRY PRODUCTS, UNITED STATES, 1977-79

MONTH	BY MONTHS				CUMULATIVE			
	1977	1978	1979	1979 AS % OF 1978	1977	1978	1979	1979 AS % OF 1978
	1,000 POUNDS			PERCENT	1,000 POUNDS			PERCENT
BUTTER								
JAN	105,455	107,399	97,399	91	105,455	107,399	97,399	91
FEB	95,431	95,469	86,642	91	200,886	202,868	184,041	91
MAR	98,402	98,216	89,333	91	299,288	301,084	273,374	91
APR	99,946	97,192	92,360	95	399,234	398,276	365,734	92
MAY	103,180	97,559	98,594	101	502,414	495,835	464,328	94
JUN	93,019	85,139	84,707	99	595,433	580,974	549,035	95
JUL	81,762	71,440	74,797	105	677,195	652,414	623,832	96
AUG	77,803	63,170	64,892	103	754,998	715,584	688,724	96
SEP	75,033	64,001	61,501	96	830,031	779,585	750,225	96
OCT	84,547	70,576			914,578	850,161		
NOV	81,528	66,470			996,106	916,631		
DEC	89,489	77,659			1,085,595	994,290		
AMERICAN CHEESE								
JAN	168,720	161,058	173,819	108	168,720	161,058	173,819	108
FEB	159,125	154,206	165,972	108	327,845	315,264	339,791	108
MAR	183,500	182,568	185,312	102	511,345	497,832	525,103	105
APR	194,440	189,622	192,021	101	705,785	687,454	717,124	104
MAY	212,116	208,719	210,580	101	917,901	896,173	927,704	104
JUN	201,361	208,044	210,887	101	1,119,262	1,104,217	1,138,591	103
JUL	175,297	179,558	195,156	109	1,294,559	1,283,775	1,333,747	104
AUG	164,981	165,620	181,777	110	1,459,540	1,449,395	1,515,524	105
SEP	141,517	146,376	167,422	114	1,601,057	1,595,771	1,682,946	105
OCT	146,319	156,727			1,747,376	1,752,498		
NOV	135,478	151,431			1,882,854	1,903,929		
DEC	160,209	170,273			2,043,063	2,074,202		
CREAMED COTTAGE CHEESE								
JAN	68,445	68,377	69,040	101	68,445	68,377	69,040	101
FEB	68,921	69,701	65,491	94	137,366	138,078	134,531	97
MAR	81,555	79,271	79,912	101	218,921	217,349	214,443	99
APR	75,729	74,209	72,372	98	294,650	291,558	286,815	98
MAY	78,441	80,276	76,997	96	373,091	371,834	363,812	98
JUN	77,385	77,173	74,070	96	450,476	449,007	437,882	98
JUL	74,341	73,737	71,341	97	524,817	522,744	509,223	97
AUG	77,248	76,795	73,338	95	602,065	599,539	582,561	97
SEP	73,667	72,399	66,230	91	675,732	671,938	648,791	97
OCT	69,443	72,003			745,175	743,941		
NOV	69,518	67,802			814,693	811,743		
DEC	63,285	60,551			877,978	872,294		
LOWFAT COTTAGE CHEESE								
JAN	10,945	12,100	11,830	98	10,945	12,100	11,830	98
FEB	10,711	11,544	12,235	106	21,656	23,644	24,065	102
MAR	13,086	14,174	14,883	105	34,742	37,818	38,948	103
APR	12,185	12,944	13,164	102	46,927	50,762	52,112	103
MAY	12,232	14,442	14,241	99	59,159	65,204	66,353	102
JUN	12,393	13,597	13,518	99	71,552	78,801	79,871	101
JUL	11,271	12,310	12,912	105	82,823	91,111	92,783	102
AUG	12,231	13,234	13,662	103	95,054	104,345	106,445	102
SEP	11,403	12,773	12,917	109	106,457	117,118	119,362	102
OCT	11,367	12,320			117,824	129,438		
NOV	10,961	11,426			128,785	140,864		
DEC	10,222	10,510			139,007	151,374		

PRODUCTION OF DAIRY PRODUCTS, UNITED STATES, 1977-79

MONTH	BY MONTHS				CUMULATIVE			
	1977	1978	1979	1979 AS % OF 1978	1977	1978	1979	1979 AS % OF 1978
	1,000 GALLONS			PERCENT	1,000 GALLONS			PERCENT
<u>ICE CREAM</u>								
JAN	51,372	52,831	55,677	105	51,372	52,831	55,677	105
FEB	55,846	56,711	57,626	102	107,218	109,542	113,303	103
MAR	73,644	70,961	71,083	100	180,862	180,503	184,386	102
APR	68,272	65,280	68,368	105	249,134	245,783	252,754	103
MAY	71,226	73,767	73,185	99	320,360	319,550	325,939	102
JUN	83,928	85,573	81,349	95	404,288	405,123	407,288	101
JUL	79,329	79,895	80,142	100	483,617	485,018	487,430	100
AUG	83,710	84,485	84,568	100	567,327	569,503	571,998	100
SEP	72,202	70,893	70,920	100	639,529	640,396	642,918	100
OCT	60,085	65,351			699,614	705,747		
NOV	56,741	57,334			756,355	763,081		
DEC	53,494	52,018			809,849	815,099		
<u>ICE MILK</u>								
JAN	15,752	15,598	15,511	99	15,752	15,598	15,511	99
FEB	17,755	17,686	16,507	93	33,507	33,284	32,081	96
MAR	25,765	25,708	24,474	95	59,272	58,992	56,492	96
APR	27,381	26,300	24,736	94	86,653	85,292	81,228	95
MAY	32,087	32,092	30,831	96	118,740	117,384	112,059	95
JUN	35,424	35,963	32,792	91	154,164	153,347	144,851	94
JUL	36,156	34,939	32,777	94	190,320	188,286	177,628	94
AUG	34,215	34,708	34,198	99	224,535	222,994	211,826	95
SEP	27,419	26,940	25,851	96	251,954	249,934	237,677	95
OCT	21,850	23,016			273,804	272,950		
NOV	17,952	18,450			291,756	291,400		
DEC	16,193	15,845			307,949	307,245		
<u>SHERBET</u>								
JAN	2,887	2,947	3,078	104	2,887	2,947	3,078	104
FEB	2,824	2,705	2,801	104	5,711	5,652	5,879	104
MAR	4,220	4,044	3,755	93	9,931	9,696	9,634	99
APR	4,189	4,047	4,065	100	14,120	13,743	13,699	100
MAY	4,868	4,745	4,573	96	18,988	18,488	18,272	99
JUN	5,900	6,017	5,128	85	24,888	24,505	23,400	95
JUL	5,675	5,286	5,034	95	30,563	29,791	28,434	95
AUG	5,696	5,151	4,987	97	36,259	34,942	33,421	96
SEP	4,255	4,005	3,826	96	40,514	38,947	37,247	96
OCT	3,199	3,504			43,713	42,451		
NOV	2,942	2,881			46,655	45,332		
DEC	3,128	2,702			49,783	48,034		
<u>MELLORINE-TYPE FROZEN DESSERT</u>								
JAN	1,214	1,009	1,172	116	1,214	1,009	1,172	116
FEB	1,426	1,062	1,280	121	2,640	2,071	2,452	118
MAR	1,826	1,547	1,562	101	4,466	3,618	4,014	111
APR	1,625	1,577	1,417	90	6,091	5,195	5,431	105
MAY	1,802	1,664	1,550	93	7,893	6,859	6,981	102
JUN	2,079	1,835	1,546	84	9,972	8,694	8,527	98
JUL	1,838	1,626	1,473	91	11,810	10,320	10,000	97
AUG	1,944	1,654	1,660	100	13,754	11,974	11,660	97
SEP	1,619	1,366	1,198	88	15,373	13,340	12,858	96
OCT	1,289	1,251			16,662	14,591		
NOV	1,156	916			17,818	15,507		
DEC	977	757			18,795	16,264		

PRODUCTION OF NONFAT DRY MILK FOR HUMAN FOOD: BY MONTHS, UNITED STATES, 1977-79

MONTH	BY MONTHS				CUMULATIVE			
	1977	1978	1979	AS % OF	1977	1978	1979	AS % OF
	1,000 POUNDS			PERCENT	1,000 POUNDS			PERCENT
JAN	70,259	76,994	55,091	72	70,259	76,994	55,091	72
FEB	71,803	68,667	54,888	80	142,062	145,661	109,979	76
MAR	87,970	84,428	76,112	90	230,032	230,089	186,091	81
APR	105,971	94,681	87,786	93	336,003	324,770	273,877	84
MAY	119,929	103,611	104,846	101	455,932	428,381	378,723	88
JUN	130,324	114,909	112,192	98	586,256	543,290	490,915	90
JUL	123,236	97,222	94,450	97	709,492	640,512	585,365	91
AUG	105,970	75,720	78,725	104	815,462	716,232	664,090	93
SEP	77,608	57,542	55,555	97	893,070	773,774	719,645	93
OCT	70,311	48,145			963,381	821,919		
NOV	65,174	42,680			1,028,555	864,599		
DEC	78,064	55,823			1,106,619	920,422		

BUTTER: PRODUCTION BY STATES, SEPTEMBER 1979

STATE	SEP	SEP	AUG	SEP	PERCENT OF	
	1977	1978	1979	1979	SEP	AUG
	1,000 POUNDS				PERCENT	
CALIF	11,806	11,204	12,600	12,400	111	98
IDAHO	984	554	512	468	84	91
ILL	645	226	265	215	95	81
IND	746	590	634	541	92	85
IOWA	2,998	1,691	823	750	44	91
KANS	973	796	829	770	97	93
MICH	2,836	1,642	2,100	2,100	128	100
MINN	13,948	11,421	11,850	9,800	86	83
MO	1,482	1,542	1,144	1,347	87	118
N Y	1,953	1,453	1,646	1,811	125	110
N DAK	468	399	516	381	95	74
OHIO	2,326	1,658	1,130	1,298	78	115
OKLA	799	1,033	614	633	61	103
OREG	1,118	1,140	1,050	975	86	93
PA	2,406	2,149	2,975	2,585	120	87
S DAK	790	797	855	755	95	88
TENN	1,368	1,005	356	900	90	253
UTAH	344	278	375	320	115	85
VT	149	390	106	126	32	119
WASH	2,656	2,443	2,837	2,614	107	92
WIS	17,631	16,066	16,100	15,700	98	98
OTH STS	6,607	5,524	5,575	5,072	91	90
U S	75,033	64,001	64,892	61,501	96	95

AMERICAN CHEESE: PRODUCTION BY STATES, SEPTEMBER 1979

STATE	SEP	SEP	AUG	SEP	PERCENT OF	
	1977	1978	1979	1979	SEP	AUG
	1,000 POUNDS				PERCENT	
CALIF	1,048	1,303	1,800	1,700	130	94
IDAHO	5,390	6,234	6,348	6,207	100	98
ILL	999	680	400	670	99	168
IND	2,335	2,230	3,350	3,124	140	93
IOWA	6,715	5,593	8,278	6,661	119	80
KANS	1,189	1,320	1,658	1,127	85	68
KY	4,049	3,300	4,245	3,620	110	85
MICH	1,620	1,617	2,100	2,200	136	105
MINN	20,350	25,189	29,675	30,000	119	101
MO	3,310	3,380	4,410	3,720	110	84
NEBR	2,147	1,961	1,636	1,420	72	87
N Y	5,311	6,154	7,274	6,456	105	89
N DAK	3,785	3,302	3,953	3,408	103	86
OHIO	1,880	1,952	2,814	1,683	86	60
OREG	2,137	2,262	2,900	2,740	121	94
S DAK	3,138	3,156	3,788	3,583	114	95
TENN	1,352	1,355	1,672	1,338	99	80
UTAH	2,885	3,202	3,927	3,434	107	87
VT	1,391	1,634	1,989	1,628	100	82
WIS	62,882	63,581	79,700	74,600	117	94
OTH STS	7,604	6,971	9,860	8,103	116	82
U S	141,517	146,376	181,777	167,422	114	92

USDA DAIRY SUPPORT PROGRAM ACTIVITIES, UNITED STATES, SEPTEMBER 1979

PRODUCT	CCC PURCHASES (DELIVERY BASIS)				UNCOMMITTED CCC INVENTORIES	
	SEP 1978	SEP 1979	OCT 1, 1977 THROUGH SEP 30, 1978	OCT 1, 1978 THROUGH SEP 30, 1979	SEP 30, 1978	SEP 30, 1979
	1,000 POUNDS					
BUTTER	0	0	147,076	59,763	204,096	1/147,101
CHEESE	0	0	46,480	12,443	30,579	2/
NONFAT DRY MILK:	7,659	10,002	338,457	202,493	585,092	1/447,930

1/ INCLUDES THE FOLLOWING QUANTITIES IN SPECIAL CONTAINERS OR FORMS AND WHICH WILL LATER BE COMMITTED TO PROGRAM USE: BUTTER IN ONE-POUND PACKAGES, 4,236,000 POUNDS AND FORTIFIED NONFAT DRY MILK, 80,219,000 POUNDS.

2/ LESS THAN 50,000 POUNDS.

ICE CREAM: PRODUCTION BY STATES, SEPTEMBER 1979

STATE	SEP 1977	SEP 1978	AUG 1979	SEP 1979	PERCENT OF	
					SEP 1978	AUG 1979
1,000 GALLONS					PERCENT	
ALA	1,070	945	1,321	1,023	108	77
ARIZ	654	533	585	508	95	87
CALIF	7,509	6,945	9,200	7,600	109	83
COLO	781	665	965	760	114	79
CONN	1,017	1,511	2,270	1,550	103	68
FLA	2,671	2,806	2,860	2,777	99	97
GA	450	469	638	473	101	74
ILL	3,735	3,835	3,890	3,360	88	86
IND	2,453	2,570	2,402	2,160	84	90
IOWA	864	965	1,492	1,172	121	79
KANS	666	550	711	488	89	69
LA	1,038	850	760	780	92	103
MD 1/	1,731	2,047	2,100	1,775	87	85
MASS	4,194	3,526	3,530	3,710	105	105
MICH	2,916	3,138	3,700	2,900	92	78
MINN	2,690	2,816	3,450	2,685	95	78
MO	1,705	1,593	1,850	1,650	104	89
NEBR	858	907	1,448	798	88	55
N J	925	468	730	430	92	59
N Y	5,254	5,898	6,700	6,100	103	91
N C	2,543	2,317	2,820	2,390	103	85
OHIO	4,462	4,283	4,650	4,300	100	92
OKLA	762	759	865	735	97	85
OREG	613	591	900	690	117	77
PA	6,423	5,505	8,055	6,800	124	84
S C	1,351	1,383	1,030	922	67	90
TENN	1,589	1,679	2,316	1,634	97	71
TEX	3,382	3,346	3,840	3,367	101	88
UTAH	590	607	922	708	117	77
VA	787	737	879	690	94	78
WASH	1,454	1,454	1,837	1,354	93	74
WIS	1,591	1,732	1,980	1,640	95	83
OTH STS	3,474	3,463	3,872	2,991	86	77
U S	72,202	70,893	84,568	70,920	100	84

1/ INCLUDES DISTRICT OF COLUMBIA.

MANUFACTURING GRADE MILK: AVERAGE PRICE AND FAT TEST FOR MILK USED
PRIMARILY FOR CANNED EVAPORATED MILK, BY REGIONS, SEPTEMBER 1979

REGION	PRICE PER 100 LB OF MILK 1/			MILKFAT TEST			PRICE PER POUND OF MILKFAT		
	SEP	AUG	SEP	SEP	AUG	SEP	SEP	AUG	SEP
	1978	1979	1979	1978	1979	1979	1978	1979	1979
	DOLLARS			PERCENT			DOLLARS		
NORTH CENTRAL	9.33	10.43	10.76	3.54	3.47	3.52	2.64	3.01	3.06
S ATL & CENTRAL	9.50	10.71	10.99	3.61	3.49	3.57	2.63	3.07	3.08
WEST	9.67	10.56	10.79	3.44	3.25	3.32	2.81	3.25	3.25
U S	9.46	10.59	10.88	3.56	3.44	3.51	2.66	3.08	3.10

1/ AVERAGE PRICE TO PRODUCERS FOR MILK OF AVERAGE FAT TEST, F.O.B. PLANT OR RECEIVING STATION.

CANNED MILK AND DRY MILK PRODUCTS: MANUFACTURERS' SHIPMENTS,
STOCKS AND SELLING PRICES, SEPTEMBER 1979

PRODUCT	SEP	SEP	AUG	SEP	PERCENT OF	
	1977	1978	1979 ^{4/}	1979	SEP	AUG
	MANUFACTURERS' SHIPMENTS ^{1/}				PERCENT	
	1,000 POUNDS					
DRY WHOLE MILK	4,522	5,729	6,743	5,241	91	78
NONFAT DRY MILK FOR HUMAN FOOD	93,087	53,190	77,853	58,710	110	75
DRY SKIM MILK FOR ANIMAL FEED	902	663	588	366	55	62
DRY BUTTERMILK, FOR HUMAN FOOD	3,333	2,282	3,800	3,516	154	93
DRY BUTTERMILK, TOTAL	3,518	2,370	3,876	3,518	148	91
	MANUFACTURERS' STOCKS, END-OF-MONTH ^{2/}				PERCENT	
	1,000 POUNDS					
CANNED EVAPORATED AND CONDENSED WHOLE MILK	148,612	135,972	131,670	129,245	95	98
DRY WHOLE MILK	6,304	7,398	7,164	6,077	82	85
NONFAT DRY MILK FOR HUMAN FOOD	81,718	63,621	110,228	96,318	151	87
DRY SKIM MILK FOR ANIMAL FEED	2,472	1,179	1,618	1,528	130	94
DRY BUTTERMILK, TOTAL	3,709	1,894	4,881	3,829	202	78
	MANUFACTURERS' SELLING PRICES ^{3/}				CHANGE-CENTS	
	CENTS PER POUND					
DRY WHOLE MILK	82.69	92.61	103.31	104.97	+12.36	+1.66
NONFAT DRY MILK FOR HUMAN FOOD	67.89	72.43	80.08	80.71	+8.28	+0.63
DRY SKIM MILK FOR ANIMAL FEED	35.73	34.68	37.23	35.41	+0.73	-1.82
DRY BUTTERMILK FOR HUMAN FOOD	59.09	68.97	75.31	76.06	+7.09	+0.75
DRY BUTTERMILK FOR ANIMAL FEED	32.05	33.50	33.54	32.50	-1.00	-1.04

^{1/} FOR DRY PRODUCTS, SHIPMENTS OF BULK GOODS ONLY.

^{2/} STOCKS HELD BY MANUFACTURERS AT ALL POINTS AND IN TRANSIT.

^{3/} PRICES FOR BULK GOODS, F.O.B. PLANT. AVERAGE MONTHLY PRICES REPORTED BY FIRMS, WEIGHTED BY SHIPMENTS OF EACH FIRM.

^{4/} REVISED.

MANUFACTURING GRADE MILK: AVERAGE PRICE AND FAT TEST FOR MILK USED
 PRIMARILY FOR SPECIFIED USES, SEPTEMBER 1979

PRIMARY USE	PRICE PER 100 LBS OF MILK 1/			MILKFAT TEST			PRICE PER POUND OF MILKFAT		
	SEP	AUG	SEP	SEP	AUG	SEP	SEP	AUG	SEP
	1978	1979	1979	1978	1979	1979	1978	1979	1979
	DOLLARS			PERCENT			DOLLARS		
MILK FOR:									
BUTTER									
BY-PRODUCTS	9.87	10.92	11.27	3.61	3.52	3.62	2.73	3.10	3.11
AMERICAN CHEESE	10.06	11.17	11.47	3.65	3.57	3.65	2.76	3.13	3.14
MISC CHEESE:									
SWISS	10.32	11.33	11.64	3.59	3.52	3.62	2.87	3.22	3.22
BRICK & MUNSTER	10.29	11.26	11.69	3.65	3.55	3.66	2.82	3.17	3.19
ITALIAN	10.18	11.32	11.56	3.66	3.57	3.63	2.78	3.17	3.18
ALL OTHER	10.27	11.50	11.82	3.70	3.60	3.69	2.78	3.19	3.20
ALL MISC CHEESE	10.24	11.33	11.62	3.64	3.56	3.63	2.81	3.18	3.20
ALL CHEESE	10.11	11.21	11.51	3.65	3.57	3.64	2.77	3.14	3.16

1/ AVERAGE PRICE TO PRODUCERS FOR MILK OF AVERAGE FAT TEST, F.O.B. PLANT OR RECEIVING STATION.

MANUFACTURING GRADE MILK: AVERAGE PRICE AND FAT TEST FOR MILK USED PRIMARILY
 FOR BUTTER AND AMERICAN CHEESE, BY STATES, SEPTEMBER 1979

PRIMARY USE AND STATE	PRICE PER 100 LBS OF MILK 1/			MILKFAT TEST			PRICE PER POUND OF MILKFAT		
	SEP	AUG	SEP	SEP	AUG	SEP	SEP	AUG	SEP
	1978	1979	1979	1978	1979	1979	1978	1979	1979
	DOLLARS			PERCENT			DOLLARS		
MILK FOR BUTTER AND BY-PRODUCTS									
CALIF	9.66	10.70	10.90	3.90	3.73	3.86	2.48	2.87	2.82
IOWA	9.93	10.99	11.30	3.60	3.48	3.56	2.76	3.16	3.17
MINN	9.83	10.85	11.23	3.52	3.44	3.55	2.79	3.15	3.16
WIS	10.18	11.42	11.70	3.72	3.69	3.75	2.74	3.09	3.12
U S	9.87	10.92	11.27	3.61	3.52	3.62	2.73	3.10	3.11
MILK FOR AMERICAN CHEESE									
IDAHO	9.99	11.10	11.28	3.53	3.37	3.44	2.83	3.29	3.28
IOWA	9.94	11.30	11.63	3.55	3.57	3.64	2.80	3.17	3.20
KANS	9.41	10.69	11.03	3.50	3.45	3.53	2.69	3.10	3.12
KY	8.70	10.40	10.70	3.68	3.52	3.65	2.36	2.95	2.93
MINN	9.99	10.99	11.26	3.58	3.51	3.58	2.79	3.13	3.15
MO	9.30	10.75	10.90	3.60	3.50	3.57	2.58	3.07	3.05
NEBR	9.79	10.65	11.27	3.53	3.40	3.55	2.77	3.13	3.17
N DAK	9.70	10.80	11.00	3.60	3.49	3.58	2.69	3.09	3.08
S DAK	9.98	11.13	11.41	3.58	3.51	3.59	2.79	3.17	3.18
TENN	8.87	10.20	10.40	3.80	3.65	3.74	2.33	2.79	2.78
WIS	10.33	11.50	11.83	3.73	3.65	3.74	2.77	3.15	3.16
U S	10.06	11.17	11.47	3.65	3.57	3.65	2.76	3.13	3.14

1/ AVERAGE PRICE TO PRODUCERS FOR MILK OF AVERAGE FAT TEST, F.O.B. PLANT OR RECEIVING STATION.

SIZE-GROUP DISTRIBUTION OF PLANTS MANUFACTURING DAIRY PRODUCTS IN 1977

The number of plants manufacturing dairy products in the United States continued to decline. According to the latest tabulations of plants by size group, the number of butter plants decreased 34 percent from 1972 to 1977, but average production increased 50 percent. The largest size group, those producing 8 million pounds or more, was the only group to have an increase in the number of plants. In 1977, 12 percent of the butter plants produced 8 million pounds or more annually, compared with 7 percent in 1972. This size group accounted for over two-thirds of the butter production in 1977, a substantial increase from the one-half it registered in 1972. As expected, the sharpest decrease in plant numbers was in the small size groups--those producing under a half million pounds per year--which accounted for 62 percent of the total reduction in butter plants.

Although the North Central region felt the major portion (71 percent) of the national decrease in butter plants, it continued to be the major butter producing region in the Nation with 62 percent of 1977 production. Five years earlier, the region accounted for 67 percent. Plant numbers slipped from 292 to 176 in 1977 but average production per plant increased by 50 percent. As in the rest of the United States, the large-size plants--8 million pounds or more annually--increased in number while all other size groups decreased.

Plants manufacturing American cheese numbered 531 in 1977, a reduction of 13 percent from 1972. The 1977 average production was 3.8 billion pounds, up 43 percent from 1972. As with butter, only the large plants increased in number. Plants producing over 10 million pounds annually accounted for 54 percent of the Nation's output in 1977. Large-sized plants in Wisconsin, Minnesota and Iowa produced 38 percent of the national output of American type cheese. Plants producing under one-half a million pounds of American annually showed a 20 percent decrease from 1972 to 1977.

Swiss cheese was produced in 69 plants during 1977 compared with 76 plants 5-years earlier. While a 10 percent decrease in plant numbers was occurring, output per plant increased 17 percent. Thirty plants produced less than half a million pounds each during 1977 while 16 had production totalling 3 million pounds or more.

Italian cheese plants totaled 182 in 1977, down 17 percent from 1972. Small plants, under half a million pounds, decreased 36 percent but large plants--over 5 million pounds--increased 67 percent. The number of Italian cheese plants in Wisconsin declined to 54 in 1977, 3 fewer than in 1972. Production increased 36 percent during this period.

PLANTS MANUFACTURING DAIRY PRODUCTS, BY PRODUCTION-SIZE GROUPS AND MAJOR REGIONS,
UNITED STATES, 1977

The trend toward fewer but larger operations is quite evident in the dairy products industry. The trend is shown in this report comparing 1977 data with 1972 data published earlier in Dairy Products, February 1974. Table 1 shows the change in plant numbers and average production between 1972 and 1977.

The number of plants producing Italian cheese showed the least decline but recorded the largest increase in production per plant between 1972 and 1977. Butter plants, however, experienced the largest percentage decrease. Regional totals indicate the most notable decreases occurred in plant numbers throughout the North Central region.

TABLE 1. NUMBER OF PLANTS AND AVERAGE ANNUAL PRODUCTION PER PLANT MAKING SPECIFIED DAIRY PRODUCTS,
1972 AND 1977, UNITED STATES

PRODUCT	DAIRY PLANTS			AVERAGE PRODUCTION PER PLANT		
	1972	1977	1977 AS % OF 1972	1972	1977	1977 AS % OF 1972
	NUMBER		PERCENT	THOUSAND POUNDS		PERCENT
BUTTER	475	312	66	2,320	3,479	150
AMERICAN CHEESE	613	531	87	2,682	3,844	143
SWISS CHEESE	76	69	91	2,389	2,743	117
ITALIAN CHEESE	199	182	91	2,574	4,360	169
ALL CHEESE	901	793	88	2,892	4,233	146
CREAMED COTTAGE CHEESE	482	313	65	2,103	2,804	133
NONFAT DRY MILK (FOR HUMAN FOOD)	180	132	73	6,797	8,380	123
ICE CREAM HARD	1,451	1,023	71	513	756	147

Many plants have facilities for manufacturing more than one product, so duplications of plant numbers occur. For example, a plant making both butter and nonfat dry milk was counted once as a butter plant and again as a powder plant.

The number of plants by production-size groups, the regional production of each product and the production of plants in the large open-size groups are shown on pages 14 through 17.

The States included in each of the four regions are as follows:

<u>Region</u>	<u>States</u>
<u>North Atlantic</u>	Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont.
<u>North Central</u>	Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, North Dakota, Nebraska, Ohio, South Dakota, and Wisconsin.
<u>South</u>	Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland & D.C., Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia.
<u>West</u>	Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, New Mexico, Nevada, Oregon, Utah, Washington, and Wyoming.

TABLE 2. PLANTS MAKING CHEESE: NUMBER OF PLANTS BY SIZE GROUPS AND ANNUAL PRODUCTION OF ALL PLANTS AND THOSE 10 MILLION POUNDS AND OVER, BY REGION, 1977

CHEESE TYPE BY REGION	TOTAL CHEESE PLANTS	PRODUCTION-SIZE GROUPS (THOUSAND POUNDS)										PRODUCTION	
		LESS THAN 100	100-499	500-999	1,000-1,499	1,500-1,999	2,000-2,999	3,000-4,999	5,000-9,999	10,000 AND OVER	ALL PLANTS	PLANTS PRODUCING 10 MILLION POUNDS AND OVER	
		NUMBER OF PLANTS										THOUSAND POUNDS	POUNDS
NORTH ATLANTIC													
AMERICAN	27	5	9	2	2	1	1	1	1	7	118,623	118,636	
SWISS	8	3	2	2	1	1	1	1	1	1	28,046	2/	
ITALIAN	66	15	14	7	5	2	6	9	4	4	201,761	85,251	
ALL TYPES 1/	110	24	27	13	9	4	8	9	13	13	438,657	301,551	
NORTH CENTRAL													
AMERICAN	414	22	39	75	64	55	42	26	40	1,597,785	896,897		
SWISS	54	7	18	8	5	2	2	1	6	124,973	81,583		
ITALIAN	88	4	9	6	4	15	16	16	12	437,703	200,049		
ALL TYPES 1/	558	19	53	90	81	70	69	46	62	2,374,717	1,324,060		
SOUTH													
AMERICAN	37	3	3	4	4	2	7	7	7	131,729	9,851		
SWISS	2						1	1	1	28,179			
ITALIAN	10	6	3	3	1	1	4	1	4	180,810	49,910		
ALL TYPES 1/	46	6	4	4	3	11	10	8	4				
WEST													
AMERICAN	53	7	13	5	2	7	5	5	7	179,234	95,622		
SWISS	5	2	2	1	1	1	2	2	1	26,392	2/		
ITALIAN	18	2	3	1	1	1	2	3	5	125,844	93,986		
ALL TYPES 1/	79	9	19	6	6	9	7	9	14	362,536	238,418		
UNITED STATES													
AMERICAN	531	37	64	82	72	64	54	39	54	2,041,371	1,111,155		
SWISS	69	9	21	10	6	5	3	5	8	189,262	109,905		
ITALIAN	182	21	29	14	13	12	28	29	21	793,487	379,286		
ALL TYPES 1/	793	58	103	109	99	93	84	72	93	3,356,720	1,913,939		

1/ PLANTS MAKING AMERICAN, SWISS, AND ITALIAN ARE ALSO INCLUDED IN COUNTS, BUT A PLANT IS COUNTED ONLY ONCE IF IT MAKES MORE THAN ONE TYPE (EXCLUDES PLANTS MAKING COTTAGE CHEESE).

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

TABLE 3. PLANTS MAKING BUTTER: NUMBER OF PLANTS BY SIZE GROUPS AND ANNUAL PRODUCTION OF ALL PLANTS AND THOSE 8 MILLION POUNDS AND OVER, BY REGION, 1977

REGION	TOTAL PLANTS	PRODUCTION-SIZE GROUPS (THOUSAND POUNDS)						PRODUCTION	
		LESS THAN 100	100-499	500-999	1,000-2,999	3,000-7,999	8,000 AND OVER	ALL PLANTS	PLANTS PRODUCING 8 MILLION POUNDS AND OVER
NUMBER OF PLANTS									
NORTH ATLANTIC	38	16	5	3	3	8	3	85,147	33,790
NORTH CENTRAL	176	42	40	27	25	17	25	668,907	501,550
SOUTH	20	3	1	1	5	6	4	102,849	62,268
WEST	78	21	19	13	6	13	6	228,654	138,631
UNITED STATES	312	82	65	44	39	44	38	1,085,557	736,239

TABLE 4. PLANTS MAKING NONFAT DRY MILK, SPRAY AND ROLLER, FOR HUMAN FOOD: NUMBER OF PLANTS BY SIZE GROUPS AND ANNUAL PRODUCTION OF ALL PLANTS AND THOSE 15 MILLION POUNDS AND OVER, BY REGION, 1977

REGION	TOTAL PLANTS	PRODUCTION-SIZE GROUPS (THOUSAND POUNDS)						PRODUCTION	
		LESS THAN 500	500-2,499	2,500-4,999	5,000-7,499	7,500-9,999	10,000-14,999	15,000 AND OVER	ALL PLANTS
NUMBER OF PLANTS									
NORTH ATLANTIC	25	6	3	7	2	4	3	110,155	
NORTH CENTRAL	67	8	6	9	3	10	13	657,112	280,353
SOUTH	13	3	3	2	3	1	1	89,257	1/
WEST	27	6	4	1	6	4	6	249,573	1/
UNITED STATES	132	23	16	19	14	18	20	1,106,097	489,173

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

TABLE 5. PLANTS MAKING CREAMED COTTAGE CHEESE: NUMBER OF PLANTS BY SIZE GROUPS AND ANNUAL PRODUCTION OF ALL PLANTS AND THOSE 4 MILLION POUNDS AND OVER, BY REGION, 1977

REGION	TOTAL PLANTS	PRODUCTION-SIZE GROUPS (THOUSAND POUNDS)							PRODUCTION	
		LESS THAN 100	100-249	250-999	1,000-1,999	2,000-3,999	4,000-AND OVER	ALL PLANTS	PLANTS PRODUCING 4 MILLION POUNDS AND OVER	
NUMBER OF PLANTS										
NORTH ATLANTIC	54	14	14	6	3	2	15	212,566	195,087	
NORTH CENTRAL	118	18	14	12	17	23	34	361,580	261,375	
SOUTH	63	9	6	16	19	9	4	102,865	38,072	
WEST	78	8	13	16	15	14	12	200,520	127,441	
UNITED STATES	313	49	47	50	54	48	65	877,531	621,975	

TABLE 6. PLANTS MAKING LOWFAT COTTAGE CHEESE: NUMBER OF PLANTS BY SIZE GROUPS AND ANNUAL PRODUCTION OF ALL PLANTS AND THOSE 4 MILLION POUNDS AND OVER, BY REGION, 1977

REGION	TOTAL PLANTS	PRODUCTION-SIZE GROUPS (THOUSAND POUNDS)							PRODUCTION	
		LESS THAN 100	100-249	250-999	1,000-1,999	2,000-3,999	4,000-AND OVER	ALL PLANTS	PLANTS PRODUCING 4 MILLION POUNDS AND OVER	
NUMBER OF PLANTS										
NORTH ATLANTIC	18	6	4	2	2	2	2	34,503	1/	
NORTH CENTRAL	60	19	14	22	4	1	1	27,071	1/	
SOUTH	38	9	12	13	3	1		16,571		
WEST	42	10	10	8	5	4	5	60,852	36,889	
UNITED STATES	158	44	40	45	14	7	8	138,997	67,637	

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

TABLE 7. PLANTS MAKING ICE CREAM: NUMBER OF PLANTS BY SIZE GROUPS AND ANNUAL PRODUCTION OF ALL PLANTS AND THOSE 2 MILLION GALLONS AND OVER, BY REGION, 1977

REGION	TOTAL PLANTS	PRODUCTION-SIZE GROUPS (THOUSAND GALLONS)							NUMBER OF PLANTS	THOUSAND GALLONS	PRODUCTION PLANTS PRODUCING 2 MILLION GALLONS AND OVER
		LESS THAN 25	25-49	50-99	100-249	250-749	750-1,999	2,000 AND OVER			
NORTH ATLANTIC	267	103	36	38	23	27	18	22	191,704	147,691	
NORTH CENTRAL	294	62	32	41	29	36	57	37	237,961	145,831	
SOUTH	200	28	12	11	28	42	47	32	200,551	116,827	
WEST	262	110	30	31	22	23	22	24	142,858	93,482	
UNITED STATES	1,023	303	110	121	102	128	144	115	773,074	503,831	

TABLE 8. PLANTS MAKING ICE MILK MIX: NUMBER OF PLANTS BY SIZE GROUPS AND ANNUAL PRODUCTION OF ALL PLANTS AND THOSE 500 THOUSAND GALLONS AND OVER, BY REGION, 1977

REGION	TOTAL PLANTS	PRODUCTION-SIZE GROUPS (THOUSAND GALLONS)							NUMBER OF PLANTS	THOUSAND GALLONS	PRODUCTION PLANTS PRODUCING 500 THOUSAND GALLONS AND OVER
		LESS THAN 25	25-49	50-99	100-249	250-499	500 AND OVER				
NORTH ATLANTIC	133	57	15	14	14	15	18	18	27,911	18,030	
NORTH CENTRAL	255	70	40	30	55	25	35	35	59,952	38,881	
SOUTH	241	44	34	33	56	47	27	27	58,587	28,906	
WEST	154	44	22	18	27	19	24	24	38,741	24,998	
UNITED STATES	783	215	111	95	152	106	104	104	185,191	110,815	



