

Appendix table 2--Dairy herd size distribution on farms with milk cows, by region, 1978

Region 1/	Herd size (number of cows)							Average herd size		
	1-4	5-19	20-49	50-99	100-199	200-499	500+	All sizes	All farms	Farms with 5 or more cows
	----- Number of farms -----							Number of cows		
New England	2,764	847	2,917	2,279	647	117	5	9,576	40	55
Middle Atlantic	19,986	8,648	22,777	13,410	2,968	441	20	68,250	33	47
Corn Belt	25,255	11,208	20,267	8,914	1,676	169	11	67,500	24	39
Lake States	4,390	13,154	40,939	12,598	1,316	117	3	72,517	34	36
Plains	9,650	3,952	6,484	2,438	451	63	2	23,040	21	35
Southeast	9,188	1,088	819	1,183	846	363	147	13,634	36	107
South Central	28,900	5,281	4,284	4,385	2,142	535	52	45,579	22	57
Mountain	9,771	888	820	870	473	165	29	13,016	19	71
Southwest	3,182	301	228	396	713	1,034	528	6,382	143	283
Northwest	8,134	1,253	1,660	1,665	919	320	40	13,991	31	71
United States 2/	121,220	46,620	101,195	48,138	12,151	3,324	837	333,485	31	48
	----- Percent of farms -----									
New England	28.9	8.8	30.4	23.8	6.8	1.2	.1	100	---	---
Middle Atlantic	29.3	12.7	33.4	19.6	4.4	.6	*	100	---	---
Corn Belt	37.4	16.6	30.0	13.2	2.5	.3	*	100	---	---
Lake States	6.1	18.1	56.4	17.4	1.8	.2	*	100	---	---
Plains	41.9	17.1	28.1	10.6	2.0	.3	*	100	---	---
Southeast	67.4	8.0	6.0	8.7	6.2	2.6	1.1	100	---	---
South Central	63.4	11.6	9.4	9.6	4.7	1.2	.1	100	---	---
Mountain	75.1	6.8	6.3	6.7	3.6	1.3	.2	100	---	---
Southwest	49.8	4.7	3.6	6.2	11.2	16.2	8.3	100	---	---
Northwest	58.1	9.0	11.9	11.9	6.5	2.3	.3	100	---	---
United States 2/	36.4	14.0	30.3	14.4	3.6	1.0	.3	100	---	---
	----- Percent of milk cows -----									
New England	1.2	2.5	26.3	39.4	21.6	8.2	.8	100	---	---
Middle Atlantic	1.5	4.3	33.8	38.4	16.4	5.0	.6	100	---	---
Corn Belt	2.3	8.0	39.2	34.9	12.5	2.6	.5	100	---	---
Lake States	.3	6.9	53.6	31.5	6.4	1.2	.1	100	---	---
Plains	3.1	9.4	41.2	31.7	11.1	3.3	.2	100	---	---
Southeast	2.9	2.0	5.4	16.9	22.6	20.7	29.5	100	---	---
South Central	4.6	5.1	14.1	30.3	27.3	14.3	4.3	100	---	---
Mountain	6.2	3.3	10.8	24.2	24.8	18.6	12.1	100	---	---
Southwest	.6	.3	.8	3.1	11.3	35.8	48.1	100	---	---
Northwest	2.9	2.9	12.6	26.6	27.8	20.2	7.0	100	---	---
United States 2/	1.9	5.2	31.9	30.2	14.9	9.0	6.9	100	---	---

* = Less than 0.05 percent.

--- = Not applicable.

1/ New England: CT, ME, MA, NH, RI, VT; Middle Atlantic: DE, MD, NJ, NY, OH, PA, VA, WV; Corn Belt: IL, IN, IA, KY, MI, MO; Lake States: MN, WI; Plains: KS, NE, ND, SD; Southeast: FL, GA, NC, SC; South Central: AL, AR, LA, MS, OK, TN, TX; Mountain: CO, MT, NV, NM, UT, WY; Southwest: AZ, CA; Northwest: ID, OR, WA. 2/ Excluding Alaska and Hawaii.

Source: 1978 Census of Agriculture, Vol. 1, Parts 1-51, Chap. 1, Table 20.

Appendix table 3--Milk production costs, United States, per cwt, 1972-89

Item	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	
								1/						2/				3/	
	Dollars per cwt																		
Gross value:																			
Milk	6.07	7.13	8.33	8.58	9.57	9.62	10.49	11.93	12.95	13.69	13.52	13.50	13.38	12.70	12.47	12.51	12.24	13.27	
Cull cows	.79	1.03	.79	.65	.75	.74	1.06	1.49	1.38	1.25	1.14	1.09	1.07	1.07	1.02	1.18	1.24	1.26	
Total, cash receipts	6.86	8.16	9.12	9.23	10.32	10.36	11.55	13.42	14.33	14.94	14.66	14.59	14.45	13.76	13.49	13.69	13.48	14.53	
Cash expenses:																			
Concentrates	1.51	2.17	2.72	2.71	2.71	2.66	2.68	3.02	3.35	3.45	3.28	3.43	3.47	3.35	3.19	3.06	3.42	3.70	
Byproducts 4/	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	.21	.20	.18	.22	.23	
Hay	.44	.57	.70	.73	.79	.69	.64	.74	.86	.80	.86	.85	.82	1.10	1.04	.99	1.35	1.60	
Silage & haylage	.31	.40	.49	.51	.56	.48	.44	.52	.61	.56	.54	.56	.58	.58	.57	.53	.83	.94	
Pasture & other	.02	.03	.04	.04	.04	.03	.03	.04	.04	.04	.04	.04	.04	.06	.06	.06	.07	.08	
Total, feed cash expenses	2.28	3.17	3.95	3.99	4.10	3.86	3.79	4.32	4.86	4.85	4.72	4.88	4.91	5.30	5.06	4.82	5.89	6.55	
Milk hauling & marketing	.31	.32	.33	.31	.31	.32	.33	.38	.43	.45	.45	.44	.45	.58	.55	.61	.61	.61	
Artificial insemination	.05	.05	.06	.07	.08	.08	.08	.09	.10	.11	.12	.12	.12	.12	.12	.12	.12	.13	
Veterinary & medicine	.12	.13	.14	.16	.17	.17	.17	.18	.19	.20	.20	.21	.22	.20	.20	.20	.20	.21	
Livestock hauling	.01	.01	.02	.01	.01	.01	.01	.02	.02	.02	.02	.02	.02	.03	.03	.03	.03	.03	
Fuel, lube, electricity	.12	.13	.17	.19	.19	.20	.21	.27	.38	.40	.40	.37	.33	.32	.22	.23	.22	.25	
Machinery, building repairs	.20	.22	.26	.30	.28	.27	.28	.30	.33	.35	.37	.37	.37	.41	.39	.38	.37	.38	
Hired labor	.45	.50	.56	.60	.62	.65	.69	.74	.77	.83	.87	.85	.91	.92	.94	.94	.97	1.05	
DHIA fees	.02	.02	.03	.03	.03	.04	.04	.04	.04	.05	.05	.05	.05	.06	.06	.06	.06	.06	
Dairy supplies	.09	.10	.12	.14	.14	.14	.15	.17	.18	.19	.19	.19	.19	.21	.19	.19	.20	.20	
Dairy assessment	0	0	0	0	0	0	0	0	0	0	0	0	.48	.50	.13	.36	.19	.03	
Total, variable expenses	3.65	4.65	5.64	5.80	5.93	5.74	5.75	6.51	7.30	7.45	7.39	7.98	8.07	8.28	8.12	7.77	8.72	9.47	
General farm overhead	.09	.12	.16	.19	.23	.24	.29	.38	.46	.54	.60	.50	.60	.53	.59	.70	.81	.87	
Taxes and insurance	.10	.12	.15	.14	.16	.18	.21	.29	.34	.37	.35	.36	.34	.37	.35	.35	.39	.40	
Interest	.41	.52	.65	.68	.76	.74	.83	1.08	1.29	1.52	1.56	1.55	1.63	1.41	1.23	1.03	1.02	1.10	
Total, fixed expenses	.60	.76	.96	1.01	1.15	1.16	1.33	1.75	2.09	2.43	2.51	2.41	2.57	2.31	2.17	2.08	2.22	2.37	
Total, cash expenses	4.25	5.41	6.60	6.81	7.08	6.90	7.08	8.26	9.39	9.88	9.90	10.39	10.64	10.59	10.29	9.85	10.92	11.84	
Value of prod less cash expenses	2.61	2.75	2.52	2.42	3.24	3.46	4.47	5.16	4.94	5.06	4.76	4.20	3.81	3.17	3.20	3.84	2.56	2.69	
Capital replacement	.73	.86	.98	.87	.92	.96	1.14	1.47	1.61	1.64	1.57	1.58	1.56	1.70	1.64	1.59	1.69	1.71	
Value of prod less cash expenses & capital replacement	1.88	1.89	1.54	1.55	2.32	2.50	3.33	3.69	3.33	3.42	3.19	2.62	2.25	1.47	1.56	2.25	.87	.98	
Economic costs:																			
Variable expenses	3.65	4.65	5.64	5.80	5.93	5.74	5.75	6.51	7.30	7.45	7.39	7.98	8.07	8.28	8.12	7.77	8.70	9.47	
General farm overhead	.09	.12	.16	.19	.23	.24	.29	.38	.46	.54	.60	.50	.60	.53	.59	.70	.81	.87	
Taxes and insurance	.10	.12	.15	.14	.16	.18	.21	.29	.34	.37	.35	.36	.34	.37	.35	.35	.39	.40	
Capital replacement	.73	.86	.98	.87	.92	.96	1.14	1.47	1.61	1.64	1.57	1.58	1.56	1.70	1.64	1.59	1.69	1.71	
Allocated returns to owned inputs:																			
Operating capital	.06	.10	.11	.08	.06	.06	.09	.12	.13	.15	.12	.12	.12	.05	.06	.06	.08	.09	
Other nonland capital	.33	.40	.51	.48	.51	.51	.58	.75	.80	.77	.71	.64	.49	.55	.55	.63	.72	.72	
Land	.22	.23	.25	.17	.18	.20	.21	.23	.26	.26	.25	.24	.19	.18	.14	.14	.19	.19	
Unpaid labor	.80	.88	.99	1.06	1.10	1.15	1.22	1.32	1.37	1.46	1.51	1.49	1.58	.55	.55	.54	.56	.58	
Total, economic costs	5.98	7.36	8.79	8.79	9.09	9.04	9.49	11.07	12.27	12.64	12.50	12.91	12.95	12.24	11.99	11.78	13.14	14.03	
Residual return to management and risk	.88	.80	.33	.44	1.23	1.32	2.06	2.35	2.06	2.30	2.16	1.68	1.50	1.52	1.50	1.91	.34	.50	

NA = Not available.

1/ Estimates for 1972-84 are based on technical information from the 1979 Milk Production Survey, U.S. Dept. Agr.

2/ Estimates for 1985-89 based on technical information from the 1985 Farm Costs and Returns Survey, U.S. Dept. Agr.

3/ Forecast.

4/ Not included prior to 1985.

Source: Economic Indicators of the Farm Sector: Costs of Production--Livestock and Dairy, 1988. ECIFS 8-3. U.S. Dept. Agr., Econ. Res. Serv. Mar. 1990 and prior issues.

Appendix table 4--Milk production costs, by region, per cwt, 1986-88 ^{1/}

Item	Appalachia			Corn Belt			Northeast			Pacific			Southeast			Southern Plains			Upper Midwest		
	1986	1987	1988	1986	1987	1988	1986	1987	1988	1986	1987	1988	1986	1987	1988	1986	1987	1988	1986	1987	1988
<u>Dollars</u>																					
Gross value of production:																					
Milk	13.07	13.47	13.21	12.28	12.41	12.09	12.77	12.93	12.65	11.81	11.56	11.13	15.33	15.10	14.87	13.60	13.70	13.20	12.10	12.10	11.92
Cull cows	.65	.77	.82	1.30	1.45	1.52	.94	1.09	1.17	.88	1.04	1.09	.98	1.17	1.27	1.10	1.28	1.28	1.13	1.30	1.35
Total	13.72	14.24	14.03	13.58	13.86	13.61	13.71	14.02	13.82	12.69	12.60	12.22	16.31	16.27	16.14	14.70	14.98	14.48	13.23	13.40	13.27
Cash expenses:																					
Feed	5.38	5.21	5.97	5.16	4.83	5.81	4.36	4.25	4.91	6.07	5.58	6.30	7.07	6.27	7.39	6.45	5.92	6.90	4.72	4.58	6.14
Other	2.90	2.77	2.67	3.21	3.09	2.93	3.32	3.19	3.10	3.13	2.93	2.77	4.13	4.06	3.91	3.57	3.36	3.10	2.67	2.61	2.43
Total, variable cash exp.	8.28	7.98	8.64	8.37	7.92	8.74	7.68	7.44	8.01	9.20	8.51	9.07	11.20	10.33	11.30	10.02	9.28	10.00	7.39	7.19	8.57
Total, fixed cash exp.	1.83	2.15	1.89	2.57	2.23	2.69	1.94	2.14	2.22	1.27	1.04	1.37	1.89	1.53	1.71	1.63	1.54	1.87	2.75	2.53	2.62
Total, cash expenses	10.11	10.13	10.53	10.94	10.15	11.43	9.62	9.58	10.23	10.47	9.55	10.44	13.09	11.86	13.01	11.65	10.82	11.87	10.14	9.72	11.19
Capital replacement	1.49	1.45	1.49	1.84	1.82	1.96	1.78	1.73	1.79	.69	.67	.69	.87	.84	.87	.96	.94	.97	2.05	1.98	2.19
Net cash returns ^{2/}	2.12	2.66	2.01	.80	1.89	.22	2.31	2.71	1.80	1.53	2.38	1.09	2.35	3.57	2.26	2.09	3.22	1.64	1.04	1.70	-.11
Economic (full ownership) costs:																					
Cash expenses (less interest)	9.15	9.03	9.80	9.25	8.88	9.76	7.68	7.44	8.01	9.61	9.08	9.75	11.92	11.18	12.49	10.80	10.20	11.21	8.57	8.37	10.00
Capital replacement	1.49	1.45	1.49	1.84	1.82	1.96	1.78	1.73	1.79	.69	.67	.69	.87	.84	.87	.96	.94	.97	2.05	1.98	2.19
Allocated returns to owned inputs ^{3/}	1.19	1.26	1.41	1.73	1.82	2.07	1.46	1.58	1.82	.62	.66	.73	.67	.68	.79	1.22	1.25	1.33	1.40	1.48	1.70
Total, economic costs	11.83	11.74	12.70	12.82	12.52	13.79	11.95	11.98	12.92	10.92	10.41	11.17	13.46	12.70	14.15	12.98	12.39	13.51	12.02	11.83	13.89
Residual returns to management and risk	1.89	2.50	1.33	.76	1.34	-.18	1.76	2.04	.90	1.77	2.19	1.05	2.85	3.57	1.99	1.72	2.59	.97	1.21	1.57	-.62

^{1/} Severe drought in 1988 affected feed costs and, accordingly, net and residual returns, especially in the Corn Belt, Southeast, and the Upper Midwest regions.

^{2/} Gross value of production less cash expenses and capital replacement.

^{3/} Variable expense items multiplied by part of year used; 6-month U.S. Treasury bill rate and value of machinery and equipment multiplied by longrun real rate of return to production assets in farm sector; value of land multiplied by longrun real rate of return to production assets in farm sector; and unpaid labor.

Source: Economic Indicators of the Farm Sector: Costs of Production--Livestock and Dairy, 1988. ECIFS 8-3. U.S. Dept. Agr., Econ. Res. Serv. Mar. 1990.

Appendix table 5--Per capita and indexes of per capita consumption of selected dairy products, 1970-88 1/

Item	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
	<u>Pounds</u>																		
Whole milk 2/	219.1	214.9	207.5	197.7	186.8	181.3	175.2	167.3	161.0	154.8	146.4	139.9	133.2	130.0	126.5	122.9	116.0	111.4	106.1
Lowfat milk products 3/	50.8	55.6	60.9	66.1	68.4	74.8	79.6	84.8	87.5	90.3	93.6	96.0	96.2	99.2	103.8	110.0	116.1	118.6	122.5
Cream products 4/	5.2	5.1	5.2	5.2	5.2	5.3	5.4	5.4	5.4	5.5	5.6	5.7	5.8	6.2	6.7	7.2	7.5	7.6	7.6
Total fluid items 2/	275.1	275.6	273.6	269.0	260.4	261.4	260.2	257.5	253.9	250.6	245.5	241.5	235.3	235.4	237.0	240.1	239.6	237.5	236.2
Butter	5.4	5.2	5.0	4.8	4.5	4.7	4.3	4.3	4.4	4.5	4.5	4.2	4.3	4.9	4.9	4.9	4.6	4.6	4.5
Nonfat dry milk 5/	5.3	5.2	4.6	5.3	4.1	3.3	3.5	3.3	3.1	3.3	3.0	2.1	2.1	2.2	2.5	2.3	2.5	2.5	2.6
American cheese	7.0	7.4	7.7	7.9	8.5	8.2	8.9	9.2	9.5	9.6	9.6	10.2	11.3	11.6	11.8	12.1	12.1	12.3	11.4
Other cheese 6/	4.4	4.7	5.3	5.6	5.9	6.1	6.6	6.8	7.3	7.5	7.9	8.0	8.6	8.9	9.6	10.3	11.0	11.6	12.1
All dairy products 7/	563.9	558.4	560.1	551.0	538.3	539.4	539.7	541.1	544.5	548.0	543.4	540.9	555.5	572.4	581.3	592.7	590.5	597.8	582.2
	<u>Index (1970 = 100) 8/</u>																		
Whole milk 2/	100.0	98.1	94.7	90.2	85.2	82.7	79.9	76.3	73.5	70.6	66.8	63.8	60.8	59.3	57.7	56.1	52.9	50.8	48.4
Lowfat milk products 3/	100.0	109.4	120.0	130.1	134.7	147.3	156.8	167.1	172.3	177.8	184.2	188.9	189.5	195.4	204.4	216.7	228.6	233.5	241.2
Cream products 4/	100.0	98.3	99.0	100.6	100.4	102.3	103.6	103.9	103.7	105.9	107.3	109.7	112.3	119.3	129.3	137.5	145.1	146.3	147.0
Total fluid items 2/	100.0	100.2	99.4	97.8	94.6	95.0	94.6	93.6	92.3	91.1	89.2	87.8	85.5	85.6	86.1	87.3	87.1	86.3	85.9
Butter	100.0	95.7	91.9	88.2	83.7	87.6	80.0	79.6	80.7	83.3	82.8	78.5	80.5	90.8	90.9	90.2	85.5	85.7	82.7
Nonfat dry milk 5/	100.0	98.9	86.4	99.3	78.1	61.5	66.2	62.5	58.5	62.1	56.8	40.4	40.0	42.2	47.5	42.6	46.7	47.4	48.4
American cheese	100.0	104.8	109.9	112.0	120.9	116.5	126.9	131.5	136.0	137.0	137.5	144.8	161.3	165.3	168.4	173.1	171.9	175.9	162.8
Other cheese 6/	100.0	107.5	121.6	129.5	136.2	140.3	151.9	155.4	167.6	173.4	181.2	183.8	196.7	205.1	220.7	237.3	251.7	267.5	279.2
All dairy products 7/	100.0	99.0	99.3	97.7	95.5	95.7	95.7	96.0	96.6	97.2	96.4	95.9	98.5	101.5	103.1	105.1	104.7	106.0	103.2

1/ Data represent domestic disappearance divided by total population including military overseas, except for fluid milk and cream that are based on resident population. All items are on a product-weight basis except for "all dairy products" which is on a milk-equivalent, milkfat basis.

2/ Commercial sales and onfarm consumption.

3/ Includes lowfat and skim milk, buttermilk, and yogurt.

4/ Includes heavy cream, light cream, half and half, sour cream and dip, and eggnog.

5/ Excludes that used in other dairy products.

6/ Excludes cottage cheese.

7/ Includes all dairy products (including some manufactured products not shown separately) on a milk-equivalent, milkfat basis.

8/ Index calculation made from unrounded numbers.

Appendix table 6--Number of cooperatives and their share of U.S. market at the farm milk supply and processing levels, selected products

Marketing level and item	Number of cooperatives				Cooperative share of U.S. market											
					All cooperatives			4 largest			8 largest			20 largest		
	1964	1973	1980	1987	1973	1980	1987	1973	1980	1987	1973	1980	1987	1973	1980	1987
	----- <u>Number</u> -----				----- <u>Percent</u> -----											
Farm milk supply:																
Grade A	NA	1/370	1/322	1/264	81	79	76	31	26	25	41	36	35	54	52	56
Nongrade A	NA	1/328	1/228	1/144	55	57	57	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total	NA	2/563	2/420	2/289	75	76	74	NA	NA	NA	NA	NA	NA	NA	NA	NA
Milk processed or manufactured at cooperative plants	856	291	192	121	28	35	37	10	19	15	12	27	23	17	40	34
Selected products--																
Powder	212	62	48	31	85	87	91	46	36	46	57	50	66	72	74	86
Butter	740	207	148	82	66	64	83	34	26	45	41	36	60	51	53	78
Cheese	294	187	157	94	35	47	45	13	19	25	18	26	31	25	36	40
Cottage cheese	126	64	44	23	13	22	13	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluid products	215	85	59	34	12	16	14	4	6	8	6	9	10	9	14	13
Ice cream and ice milk	143	60	38	21	5	10	8	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA = Not available.

1/ Number of cooperatives receiving milk from farmers or bargaining directly for farmers, but does not include federations of cooperatives.

2/ Total numbers do not add since some cooperatives received both Grade A and non-Grade A milk.

Source: K. Charles Ling and James B. Roof. Marketing Operations of Dairy Cooperatives. ACS Res. Rpt. 88. U.S. Dept. Agr., Agricultural Cooperative Service, Nov. 1989.

Appendix table 7--Milk marketing and USDA net removals, 1960-89

Year	Milk marketings <u>1/</u>	Net removals <u>2/</u>	
	Million pounds	Pct. of mktgs.	
1960	113,951	3,115	2.7
1961	119,325	8,022	6.8
1962	118,587	10,748	9.1
1963	118,144	7,772	6.6
1964	120,478	7,677	6.4
1965	118,206	5,665	4.8
1966	114,440	645	.6
1967	113,568	7,427	6.5
1968	112,563	5,150	4.6
1969	111,793	4,479	4.0
1970	112,999	5,774	5.1
1971	114,814	7,268	6.3
1972	116,487	5,345	4.6
1973	112,141	2,185	1.9
1974	112,385	1,346	1.2
1975	112,337	2,036	1.8
1976	117,221	1,236	1.1
1977	119,830	6,080	5.1
1978	118,796	2,743	2.3
1979	120,867	2,119	1.8
1980	126,068	8,800	7.0
1981	130,466	12,861	9.9
1982	133,144	14,282	10.7
1983	137,228	16,814	12.3
1984	132,421	8,637	6.5
1985	140,544	13,174	9.4
1986	140,735	10,628	7.6
1987	140,450	6,706	4.8
1988	143,292	8,856	6.2
1989	<u>3/</u> 142,733	8,968	6.3

1/ Milk production less amount fed to calves and consumed on farms.

2/ Milk equivalent basis.

3/ Estimated.

Appendix table 8--Net Government expenditures on dairy support and related programs, fiscal years, 1950-89

Year beginning July 1	Net producer payments 1/	Net support purchases 2/	Military milk 3/	Section 32 4/	Section 709 5/	Section 4(a) 5/	Export assistance 6/	Total (excluding special milk) 8/	Special milk program 7/
<u>Million dollars</u>									
1949-50		170.5	---	17.6	---	---	---	188.1	---
1950-51		8/-49.1	---	9/- .9	---	---	---	8/ -50.1	---
1951-52		1.6	---	7.5	---	---	---	9.1	---
1952-53		274.9	---	25.1	---	---	---	300.0	---
1953-54		400.4	---	74.0	---	---	---	474.4	---
1954-55		228.7	4.3	24.4	---	---	---	257.4	22.2
1955-56		237.9	7.3	39.0	---	---	---	284.2	48.2
1956-57		239.1	16.4	75.6	---	---	---	331.1	61.0
1957-58		205.9	30.4	123.7	---	---	---	360.0	66.7
1958-59		102.1	23.0	106.2	---	---	---	231.2	74.7
1959-60		159.5	23.6	35.1	---	---	---	218.2	81.2
1960-61		173.9	25.3	82.1	---	---	---	281.3	87.0
1961-62		539.0	25.9	47.1	---	---	---	612.0	91.7
1962-63		454.0	24.8	---	---	---	6.7	485.5	93.7
1963-64		311.7	26.5	4.4	---	---	36.5	379.1	97.1
1964-65		157.2	26.2	105.6	---	---	44.7	333.7	86.5
1965-66		26.1	---	38.7	---	---	3.8	68.6	97.0
1966-67		283.9	---	.9	14.2	---	18.4	317.4	96.1
1967-68		357.1	---	---	---	---	7.1	364.2	103.1
1968-69		268.8	---	45.4	---	---	13.1	327.3	101.9
1969-70		168.6	---	107.1	7.8	---	7.4	290.9	102.9
1970-71		315.4	---	91.6	3.2	---	11.6	421.8	91.8
1971-72		267.0	---	63.9	---	---	7.3	338.2	93.6
1972-73		135.8	---	15.4	.1	---	1.5	152.8	90.8
1973-74		31.4	---	10.8	13.7	15.0	---	70.9	50.2
1974-75		485.8	---	6.5	---	3.8	---	496.1	122.9
1975-76		69.6	---	4.1	---	2.8	---	76.5	144.0
Transition quarter 10/		43.5	---	1.0	---	---	---	44.5	25.5
1976-77		709.8	---	---	---	4.5	---	714.3	109.7
1977-78		446.4	---	---	---	5.0	---	451.4	137.8
1978-79		244.3	---	---	---	6.3	---	250.6	134.1
1979-80		1,274.0	---	---	---	5.8	---	1,279.8	159.3
1980-81		1,967.2	---	---	---	7.5	---	1,974.7	104.4
1981-82		2,231.3	---	---	---	7.9	---	2,239.2	22.9
1982-83	(253.8)	2,592.0	---	---	---	8.4	---	2,600.4	14.9
1983-84	(481.0)	1,588.1	---	---	---	9.4	---	1,597.5	16.0
1984-85		255.8	---	---	---	16.2	---	2,185.0	15.5
1985-86		202.1	---	---	---	14.6	---	2,416.5	16.5
1986-87		156.5	---	---	---	15.8	---	1,237.5	17.5
1987-88		185.2	---	---	---	11.5	---	1,329.2	19.9
1988-89 11/		155.0	---	---	---	18.6	---	697.8	22.1

--- = Not applicable.

1/ Milk diversion and/or termination payments less producer deductions and/or reductions. 2/ CCC support purchases and related costs (for processing, packaging, transporting, and storing) of dairy products, plus net payments to producers and net expenditures for certain red meat purchases, less proceeds from sales to commercial buyers for domestic use and for export, U.S. military agencies, foreign government and private welfare agencies, and Section 32 programs. 3/ CCC reimbursements to U.S. military agencies, Veterans' Administration and other participants. 4/ Expenditures of Section 32 funds to buy dairy products in the market and from CCC for school lunch and welfare uses. 5/ Purchases of dairy products at market prices under Section 709 of the Food and Agriculture Act of 1965, and Section 4(a) of the Agriculture and Consumer Protection Act of 1973, for domestic school lunch and welfare uses. 6/ Value of payment-in-kind certificates issued by CCC on exports of nonfat dry milk, butter, and other high-milkfat products, and CCC cost of exports under Title I, PL 480 of dairy products not originating in CCC stocks. 7/ Expenditures under the program to increase milk consumption by children in schools, child-care centers, and similar institutions. 8/ Net receipt due to sales exceeding purchases. 9/ Receipt due to adjustment. 10/ Start of fiscal year moved from July 1 to October 1 in 1976. 11/ Preliminary.

Source: U.S. Dept. Agr., Agricultural Stabilization and Conservation Service.

Appendix table 9--Milk: Production by States and regions,
selected years

State and region	1965	1970	1975	1980	1985	1989 1/
<u>Million pounds</u>						
Maine	660	619	629	665	673	609
New Hampshire	394	356	336	347	364	293
Vermont	2,055	1,970	2,009	2,289	2,410	2,331
Massachusetts	790	658	601	570	596	446
Rhode Island	103	75	63	47	44	34
Connecticut	713	661	608	612	620	524
New York	11,033	10,341	9,964	10,974	11,732	11,142
New Jersey	1,034	730	528	494	487	364
Pennsylvania	7,206	7,124	7,140	8,496	9,983	9,998
Delaware	156	130	127	125	147	128
Maryland	1,559	1,560	1,550	1,520	1,625	1,377
Northeast	25,703	24,224	23,555	26,139	28,681	27,246
Michigan	5,528	4,602	4,411	4,970	5,568	5,152
Wisconsin	18,848	18,435	18,900	22,380	24,700	24,000
Minnesota	10,731	9,636	8,946	9,535	10,835	10,108
Lake States	35,107	32,673	32,257	36,885	41,103	39,260
Ohio	5,200	4,420	4,259	4,310	4,870	4,555
Indiana	2,954	2,382	2,210	2,210	2,358	2,231
Illinois	3,844	2,850	2,446	2,540	2,721	2,743
Iowa	5,945	4,670	3,893	3,994	4,058	4,202
Missouri	3,243	3,012	2,840	2,826	2,870	2,975
Corn Belt	21,186	17,334	15,648	15,880	16,877	16,706
North Dakota	1,467	1,065	917	939	1,120	1,030
South Dakota	1,580	1,578	1,556	1,669	1,744	1,724
Nebraska	1,821	1,566	1,431	1,315	1,340	1,360
Kansas	1,749	1,740	1,392	1,330	1,285	1,251
Northern Plains	6,617	5,949	5,296	5,253	5,489	5,365
Virginia	1,829	1,749	1,755	1,974	2,102	1,991
West Virginia	500	374	350	350	382	279
North Carolina	1,502	1,485	1,498	1,631	1,748	1,533
Kentucky	2,568	2,471	2,319	2,219	2,222	2,265
Tennessee	2,171	2,123	2,031	2,241	2,235	2,192
Appalachian	8,570	8,202	7,953	8,415	8,689	8,260
South Carolina	518	512	512	541	576	463
Georgia	991	1,182	1,221	1,367	1,300	1,303
Florida	1,390	1,641	1,956	2,028	2,038	2,447
Alabama	838	816	686	610	547	523
Southeast	3,737	4,151	4,375	4,546	4,461	4,736

Continued--

Appendix table 9--Milk: Production by States and regions,
selected years--Continued

State and region	1965	1970	1975	1980	1985	1989 ^{1/}
<u>Million pounds</u>						
Mississippi	1,136	1,049	876	817	876	767
Arkansas	722	685	707	740	848	794
Louisiana	1,002	1,089	1,054	1,012	911	950
Delta States	2,860	2,823	2,637	2,569	2,635	2,511
Oklahoma	1,314	1,250	1,060	1,110	1,183	1,232
Texas	2,973	3,065	3,206	3,625	3,968	5,170
Southern Plains	4,287	4,315	4,268	4,735	5,151	6,402
Montana	378	326	278	314	349	332
Idaho	1,475	1,490	1,555	1,947	2,421	2,669
Wyoming	175	140	110	132	134	124
Colorado	832	856	845	858	1,105	1,277
New Mexico	292	304	366	602	1,078	1,243
Arizona	529	585	840	1,031	1,348	1,523
Utah	736	819	919	1,028	1,135	1,170
Nevada	134	142	168	219	242	292
Mountain	4,551	4,662	5,081	6,131	7,812	8,630
Washington	1,932	2,091	2,322	2,942	3,750	4,097
Oregon	980	970	990	1,169	1,438	1,509
California	8,480	9,457	10,853	13,577	16,762	19,353
Alaska	21	19	17	13	22	23
Hawaii	149	137	146	152	142	154
Pacific	11,562	12,674	14,328	17,853	22,114	25,136
United States	124,180	117,007	115,398	128,406	143,012	144,252

^{1/} Preliminary.

Appendix table 10--Regional shares of U.S. milk production,
selected years

Region ^{1/}	1965	1970	1975	1980	1985	1989
<u>Percent of U.S. total</u>						
Northeast	20.7	20.7	20.4	20.4	20.1	18.9
Lake States	28.3	27.9	28.0	28.7	28.7	27.2
Corn Belt	17.0	14.8	13.6	12.4	11.8	11.6
Northern Plains	5.3	5.1	4.6	4.1	3.8	3.7
Appalachian	6.9	7.0	6.9	6.6	6.1	5.7
Southeast	3.0	3.6	3.8	3.5	3.1	3.3
Delta	2.3	2.4	2.3	2.0	1.8	1.8
Southern Plains	3.5	3.7	3.7	3.7	3.6	4.4
Mountain	3.7	4.0	4.4	4.8	5.5	6.0
Pacific	9.3	10.8	12.3	13.8	15.5	17.4

^{1/} See appendix table 9 for States included in the respective regions.

Appendix table 11--Milk: Supply and utilization of all dairy products, 1965-88 ^{1/}

Year	Supply				Utilization					
	Production	Im-ports	Beginning stocks ^{2/}	Total	Total use	Exports ^{3/}	Shipments	Domestic disappearance		
								Fed to calves	Human	Ending stocks ^{2/}
<u>Million pounds</u>										
1965	124,180	923	5,290	130,393	125,937	1,836	522	2,061	121,518	4,456
1966	119,912	2,791	4,456	127,159	122,300	778	430	1,980	119,112	4,859
1967	118,732	2,908	4,859	126,499	118,247	363	461	1,891	115,532	8,252
1968	117,225	1,780	8,252	127,257	120,550	1,185	586	1,821	116,958	6,707
1969	116,108	1,621	6,707	124,436	119,092	921	498	1,745	115,928	5,344
1970	117,007	1,874	5,245	124,126	118,323	438	522	1,702	115,631	5,803
1971	118,566	1,346	5,803	125,715	120,611	2,458	568	1,635	115,950	5,104
1972	120,025	1,694	5,104	126,823	121,325	1,470	677	1,624	117,554	5,498
1973	115,491	3,860	5,498	124,849	119,641	654	638	1,584	116,765	5,208
1974	115,586	2,923	5,208	123,717	117,831	582	576	1,558	115,115	5,886
1975	115,398	1,669	5,886	122,953	119,110	550	496	1,566	116,498	3,843
1976	120,180	1,943	3,843	125,966	120,257	507	520	1,567	117,663	5,709
1977	122,654	1,968	5,709	130,331	121,705	465	527	1,541	119,172	8,626
1978	121,461	2,310	8,626	132,397	123,668	376	602	1,497	121,193	8,729
1979	123,350	2,305	8,729	134,384	125,785	400	620	1,442	123,323	8,599
1980	128,406	2,109	8,599	139,114	126,155	426	562	1,395	123,772	12,959
1981	132,770	2,329	12,959	148,058	129,680	3,197	586	1,418	124,479	18,378
1982	135,505	2,477	18,378	156,360	136,306	5,095	516	1,521	129,174	20,054
1983	139,588	2,616	20,054	162,258	139,612	3,188	577	1,520	134,327	22,646
1984	135,351	2,741	22,646	160,738	144,034	3,600	634	2,129	137,671	16,704
1985	143,012	2,776	16,704	162,492	148,797	4,805	566	1,745	141,681	13,695
1986	143,124	2,732	13,695	159,551	146,685	1,970	546	1,715	142,454	12,866
1987	142,709	2,490	12,866	158,065	150,625	2,434	602	1,599	145,990	7,440
1988 ^{4/}	145,152	2,394	7,440	154,986	146,797	1,533	615	1,615	143,034	8,189

^{1/} Milk equivalent, milkfat basis.

^{2/} Excludes cream and bulk condensed starting 1970.

^{3/} Government and commercial.

^{4/} Preliminary.

Appendix table 12--Dairy products: Per capita consumption, United States, 1977-88 ^{1/}

Year	Cheese		Evaporated and condensed			Frozen products				Dry milk products							
	Fluid milk and cream ^{2/}	Butter	Whole and part skim milk ^{3/}		Cottage	Canned whole milk	Bulk, whole milk	Bulk and canned, skim milk	Ice cream	Ice milk	Sherbert	Other frozen dairy products	Mello-rine	Dry whole milk	Non-fat dry milk	Dry butter milk	Dry whey ^{4/}
			Amer-ican	Other													
<u>Pounds</u>																	
1977	258	4.3	9.2	6.8	4.7	3.2	1.1	3.9	17.7	7.7	1.5	0.3	0.4	0.2	3.3	0.3	2.4
1978	254	4.4	9.6	7.3	4.7	3.0	1.0	3.5	17.6	7.7	1.4	.4	.4	.3	3.1	.2	2.4
1979	251	4.5	9.6	7.5	4.5	3.0	1.1	3.3	17.3	7.3	1.3	.3	.3	.3	3.3	.2	2.7
1980	246	4.5	9.6	7.9	4.5	2.8	1.0	3.3	17.5	7.1	1.3	.3	.3	.3	3.0	.2	2.7
1981	242	4.2	10.2	8.0	4.3	2.9	1.2	3.2	17.4	7.0	1.3	.6	.2	.4	2.1	.2	2.7
1982	235	4.3	11.3	8.6	4.2	2.7	1.3	3.0	17.6	6.6	1.3	.6	.2	.4	2.1	.2	2.9
1983	235	4.9	11.6	8.9	4.1	2.7	1.1	3.2	18.0	6.9	1.3	.6	.2	.4	2.2	.2	3.1
1984	237	4.9	11.8	9.6	4.1	2.4	1.3	3.7	18.1	7.0	1.3	.6	.2	.4	2.5	.2	3.2
1985	240	4.9	12.1	10.3	4.1	2.2	1.4	3.8	18.1	6.9	1.3	1.3	.2	.4	2.3	.2	3.5
1986	240	4.6	12.1	11.0	4.1	2.2	1.4	4.3	18.4	7.2	1.3	.9	.2	.5	2.5	.2	3.7
1987	237	4.6	12.3	11.6	3.9	2.2	1.5	4.2	18.3	7.4	1.2	1.0	.2	.5	2.5	.2	3.6
1988 ^{5/}	236	4.5	11.4	12.1	3.9	2.1	1.4	4.2	17.2	7.9	1.3	1.0	.2	.6	2.6	.2	3.5

^{1/} ERS no longer separately estimates civilian and military use. Data represent domestic disappearance divided by total population including military overseas, except for fluid milk and cream that are based on resident population.

^{2/} Product pounds of commercial sales and onfarm consumption. Commercial sales include whole milk, lowfat milk, skim milk, buttermilk, flavored milk and drinks, cream, milk-cream mixtures, sour cream and dips, eggnog, and yogurt.

^{3/} Excludes cottage cheese.

^{4/} Includes modified dry whey products.

^{5/} Preliminary or estimated.

Appendix table 13--Per capita consumption of selected cheese varieties, 1971-88 1/

Natural equivalent of cheese and cheese products													
Year	American			Italian						Miscellaneous			
	Cheddar	Other 2/	Total	Provolone	Romano	Parmesan	Mozzarella	Ricotta	Other	Total	Swiss 3/	Brick	Munster
	Pounds												
1971	5.94	1.42	7.35	0.22	0.14	0.20	1.38	0.28	0.07	2.30	0.94	0.11	0.19
1972	6.04	1.67	7.71	.24	.17	.23	1.58	.31	.08	2.61	1.07	.10	.22
1973	6.10	1.76	7.86	.27	.15	.18	1.77	.34	.09	2.81	1.07	.11	.22
1974	6.32	2.16	8.48	.27	.15	.25	1.86	.33	.09	2.96	1.20	.11	.23
1975	6.04	2.13	8.17	.28	.22	.17	2.12	.38	.07	3.24	1.10	.09	.24
1976	6.45	2.46	8.91	.31	.17	.27	2.32	.41	.08	3.56	1.25	.09	.25
1977	6.80	2.43	9.23	.35	.16	.26	2.47	.41	.09	3.73	1.21	.07	.25
1978	6.94	2.61	9.55	.36	.19	.28	2.69	.44	.11	4.07	1.34	.08	.27
1979	6.93	2.69	9.62	.40	.16	.32	2.81	.46	.08	4.24	1.36	.06	.28
1980	6.89	2.76	9.65	.42	.15	.28	3.02	.47	.10	4.44	1.33	.07	.31
1981	7.03	3.14	10.17	.45	.14	.30	2.98	.49	.09	4.45	1.27	.06	.29
1982	8.71	2.61	11.32	.46	.17	.32	3.28	.47	.11	4.83	1.30	.06	.31
1983	9.09	2.51	11.60	.50	.16	.32	3.67	.54	.09	5.27	1.25	.06	.30
1984	9.50	2.31	11.82	.54	.17	.35	4.02	.57	.09	5.76	1.24	.07	.32
1985	9.73	2.42	12.14	.56	.21	.37	4.61	.60	.08	6.43	1.29	.08	.34
1986	9.73	2.35	12.07	.57	.16	.33	5.17	.63	.10	6.96	1.29	.08	.37
1987	10.58	1.79	12.38	.61	.23	.42	5.59	.67	.08	7.60	1.23	.12	.38
1988 4/	9.45	1.97	11.42	.61	.19	.48	5.98	.72	.11	8.08	1.28	.10	.34

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Natural equivalent--continued						Product-weight form					
Miscellaneous--continued						Processed					
Cream and Neufchatel	Blue 5/	Edam and Gouda	Other	Total	Total	Cheese	Foods and spreads	Total	Natural	Total 6/	
Pounds											
	0.63	0.15	0.10	0.26	2.38	12.03	3.5	2.3	5.9	7.3	13.2
1971	.63	.17	.11	.38	2.68	13.00	3.4	2.6	6.0	8.2	14.2
1972	.66	.18	.12	.48	2.83	13.49	3.3	2.7	6.0	8.8	14.8
1973	.70	.16	.11	.46	2.97	14.41	3.4	2.9	6.3	9.4	15.8
1974	.74	.16	.11	.42	2.86	14.27	3.3	3.3	6.7	9.1	15.8
1975	.77	.18	.11	.39	3.05	15.52	3.9	2.6	6.5	10.3	16.8
1976	.80	.18	.11	.40	3.03	15.99	3.9	3.2	7.1	10.4	17.5
1977	.89	.19	.12	.31	3.19	16.81	3.8	3.2	7.1	11.3	18.3
1978	.94	.18	.13	.35	3.30	17.16	3.8	3.1	6.9	11.7	18.6
1979											

--Continued

Appendix table 13--Per capita consumption of selected cheese varieties, 1971-88 1/--Continued

Year	Natural equivalent--continued					Product-weight form					
	Miscellaneous--continued					Total	Processed				
	Cream and Neufchatel	Blue <u>5/</u>	Edam and Gouda	Other	Total		Cheese	Foods and spreads	Total	Natural	Total <u>6/</u>
Pounds											
1980	1.00	0.17	0.13	0.44	3.44	17.53	4.0	3.1	7.0	12.0	19.0
1981	1.05	.16	.15	.56	3.54	18.15	3.6	3.1	6.8	12.8	19.6
1982	1.13	.16	.18	.59	3.73	19.88	4.7	3.3	7.9	13.6	21.5
1983	1.15	.16	.18	.54	3.65	20.52	5.1	3.3	8.4	13.8	22.2
1984	1.17	.17	.18	.69	3.84	21.42	4.4	3.3	7.7	15.3	23.0
1985	1.23	.17	.16	.61	3.89	22.47	4.6	3.0	7.6	16.4	24.0
1986	1.33	.17	.17	.59	3.99	23.02	4.8	3.2	7.9	16.7	24.6
1987	1.40	.17	.19	.54	4.03	24.01	5.2	3.2	8.4	17.2	25.6
1988 <u>4/</u>	1.53	.17	.19	.46	4.06	23.57	4.6	3.7	8.3	17.0	25.3

1/ ERS no longer separates military and civilian consumption. These data are slightly different from the civilian consumption previously published.

2/ Includes Colby, washed curd, stirred curd, Monterey, and Jack.

3/ Includes imports of Gruyere and Emmentaler.

4/ Preliminary.

5/ Includes Gorgonzola.

6/ Total product-weight is greater than natural equivalent because processed cheese and cheese food is made from natural cheese and other dairy products. Numbers may not add due to rounding.

Appendix table 14--Fluid milk sales by product, 1970-88

Year	Plain whole milk	Flavored whole milk	Plain lowfat milk	Plain skim milk	Flavored lowfat and skim milk	Buttermilk	Total-beverage milk	
<u>Million pounds</u>								
1970	41,363	1,144	6,082	2,368	611	1,130	52,698	
1971	41,043	1,287	7,022	2,552	538	1,153	53,595	
1972	40,027	1,484	8,207	2,599	533	1,131	53,981	
1973	38,473	1,549	9,100	2,921	571	1,065	53,679	
1974	36,765	1,440	9,763	2,959	561	988	52,476	
1975	36,188	1,366	11,468	2,480	719	1,011	53,232	
1976	35,241	1,475	12,431	2,524	864	1,021	53,556	
1977	34,036	1,446	13,426	2,617	1,062	1,007	53,594	
1978	33,235	1,359	14,250	2,543	1,097	983	53,467	
1979	32,480	1,236	15,043	2,604	1,129	939	53,431	
1980	31,253	1,075	15,918	2,636	1,197	927	53,006	
1981	30,391	843	16,655	2,586	1,288	926	52,689	
1982	29,345	710	17,031	2,451	1,283	951	51,771	
1983	28,866	749	17,631	2,476	1,373	1,006	52,101	
1984	28,204	907	18,525	2,726	1,409	1,020	52,791	
1985	27,760	882	19,812	3,009	1,430	1,046	53,939	
1986	26,439	851	21,151	3,235	1,516	1,017	54,207	
1987	25,620	829	21,718	3,403	1,607	1,039	54,217	
1988	24,617	843	22,343	3,981	1,625	1,017	54,426	
Year	Half & Light half cream	Heavy cream	Sour cream and dip	Total cream products	Eggnog	Yogurt	Total all products	
<u>Million pounds</u>								
1970	591	76	111	222	1,000	61	169	53,928
1971	557	67	113	246	983	74	229	54,881
1972	540	60	111	264	975	103	281	55,340
1973	554	80	120	272	1,026	80	307	55,092
1974	522	85	116	310	1,033	81	324	53,914
1975	514	87	119	350	1,070	76	442	54,820
1976	530	76	129	350	1,085	87	481	55,209
1977	536	68	126	364	1,094	94	533	55,315
1978	537	70	123	374	1,104	94	563	55,228
1979	543	66	139	395	1,143	94	565	55,233
1980	551	55	159	408	1,173	95	583	54,857
1981	565	56	165	424	1,210	100	579	54,578
1982	566	62	172	451	1,251	104	613	53,739
1983	596	67	195	484	1,342	112	760	54,315
1984	656	74	221	523	1,474	116	866	55,247
1985	714	85	243	544	1,586	121	974	56,620
1986	759	102	260	577	1,698	121	1,071	57,097
1987	754	103	271	600	1,728	124	1,094	57,163
1988	755	100	289	608	1,752	127	1,142	57,447

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