

MILK PRODUCTION

May 11, 1966

Special in this issue
CONCENTRATE RATIONS FED
TO MILK COWS 1965, page 7

SUMMARY

April 1966 production of milk in the United States is estimated at 10,874 million pounds, 4 percent less than a year earlier and the smallest April output since 1953. On a daily average basis, production advanced 6 percent from March to April, compared with an increase of 5 percent a year earlier. April milk output provided 1.84 pounds per person daily, compared with 1.94 pounds in April 1965. Milk output per cow averaged 735 pounds, 2 percent above a year earlier.

Reported dairy pasture condition for the United States averaged 84 percent of normal on May 1. This is 3 percentage points above a year earlier and average for the date. The improved condition is mostly due to more adequate moisture supplies than a year earlier.

Table 1.-Milk per cow and milk production by months, United States, 1966, with comparisons

Month	Milk per cow			Milk production			
	Average 1960-64	1965	1966	Average 1960-64	1965	1966	Change from 1965
	Pounds	Pounds	Pounds	Million Pounds	Million Pounds	Million Pounds	Percent
January.....	587	658	658	10,028	10,419	9,865	-5.3
February.....	565	622	620	9,634	9,820	9,254	-5.8
March.....	642	709	716	10,932	11,155	10,645	-4.6
April.....	659	722	735	11,197	11,305	10,874	-3.8
May.....	728	782		12,347	12,206		
June.....	701	756		11,872	11,742		
July.....	644	702		10,888	10,856		
August.....	602	653		10,158	10,046		
September....	567	615		9,555	9,404		
October.....	573	621		9,634	9,446		
November.....	551	602		9,252	9,106		
December.....	584	635		9,788	9,556		
Annual.....	7,407	8,080		125,285	125,061		

Table 2.-Monthly milk per cow and milk production,
April 1966, with comparisons

State	Monthly milk per cow 1/			Milk production			
	April av. 1960-64 2/	April 1965	April 1966	April av. 1960-64 2/	April 1965	April 1966	Change from 1965
	Pounds	Pounds	Pounds	Million pounds	Million pounds	Million pounds	Percent
Maine.....	-	790	830	-	66	65	- 2
New Hampshire.....	-	785	825	-	35	33	- 6
Vermont.....	-	790	820	-	187	179	- 4
Massachusetts.....	-	875	910	-	71	68	- 4
Rhode Island.....	-	860	885	-	9.1	8.6	- 5
Connecticut.....	-	845	875	-	62	62	0
New York.....	791	876	880	976	1,036	994	- 4
New Jersey.....	832	900	940	102	98	95	- 3
Pennsylvania.....	722	785	805	623	624	610	- 2
Ohio.....	700	775	795	455	446	429	- 4
Indiana.....	676	745	775	278	276	265	- 4
Illinois.....	696	780	800	371	356	334	- 6
Michigan.....	741	795	800	469	487	458	- 6
Wisconsin.....	796	860	845	1,698	1,806	1,698	- 6
Minnesota.....	817	865	850	1,038	1,080	1,000	- 7
Iowa.....	643	690	710	528	519	474	- 9
Missouri.....	508	525	560	320	289	288	0
North Dakota.....	592	620	625	156	145	129	-11
South Dakota.....	523	565	560	126	129	118	- 9
Nebraska.....	575	595	575	175	164	146	-11
Kansas.....	532	575	610	168	157	151	- 4
Delaware.....	-	715	720	-	15.7	15.8	+ 1
Maryland.....	597	625	640	128	128	129	+ 1
Virginia.....	495	535	555	158	151	151	0
West Virginia.....	426	460	485	51	48	47	- 2
North Carolina.....	507	570	575	131	134	131	- 2
South Carolina.....	452	500	520	46	44	43	- 2
Georgia.....	429	500	525	86	86	85	- 1
Florida.....	625	685	710	115	121	126	+ 4
Kentucky.....	453	520	565	221	227	233	+ 3
Tennessee.....	402	435	450	194	195	193	- 1
Alabama.....	355	410	430	81	80	79	- 1
Mississippi.....	326	370	400	107	100	102	+ 2
Arkansas.....	370	435	470	75	72	72	0
Louisiana.....	-	430	460	-	89	90	- 1
Oklahoma.....	541	600	635	125	115	116	+ 1
Texas.....	495	581	625	267	270	273	+ 1
Montana.....	491	490	505	36	32	32	0
Idaho.....	724	725	725	142	129	123	- 5
Wyoming.....	529	560	565	14.9	14.4	14.1	- 2
Colorado.....	631	675	660	73	72	68	- 6
New Mexico.....	-	615	635	-	25	25	0
Arizona.....	-	905	925	-	46	47	+ 2
Utah.....	716	740	760	66	63	62	- 2
Nevada.....	678	800	840	10.2	11.4	11.5	+ 1
Washington.....	764	775	830	175	165	174	+ 5
Oregon.....	684	730	765	104	95	95	0
California.....	889	916	925	717	720	717	0
Alaska.....	675	730	748	1.81	1.68	1.57	- 7
Hawaii.....	774	850	860	10.7	12.8	13.8	+ 8
United States.....	659	722	735	11,197	11,305	10,874	- 3.8

1/ Monthly rate based on all milk cows on farms (in milk or dry).

2/ Five-year averages not available for States where not shown.

April milk production 4 percent below a year earlier

April milk production in the United States is estimated at 10,874 million pounds, 4 percent less than a year earlier and the smallest April output since 1953. On a daily average basis, production advanced 6 percent from March to April, compared with 5 percent a year earlier. April milk output provided 1.84 pounds per person daily, compared with 1.94 pounds in April 1965.

Milk production in April was closer than in March to year earlier output in several important States: including New York, Wisconsin, Minnesota, Iowa, and California. Production continued 4 percent or more below a year earlier in all North Central States except Missouri.

Milk output per cow up 2 percent

United States milk output per cow averaged 735 pounds in April -- up 2 percent from a year earlier. The 13-pound increase from a year earlier was the largest since August last year. On a daily basis, the 24.5-pound April average compared with 23.1 pounds in the previous month and 24.1 pounds in April last year. April 1966 output per cow was at a record high in 43 States.

New Jersey's milk cows produced the most milk per cow in April -- 940 pounds. This was followed by 925 pounds per cow in Arizona and California, 910 pounds in Massachusetts, 885 pounds in Rhode Island, and 880 in New York.

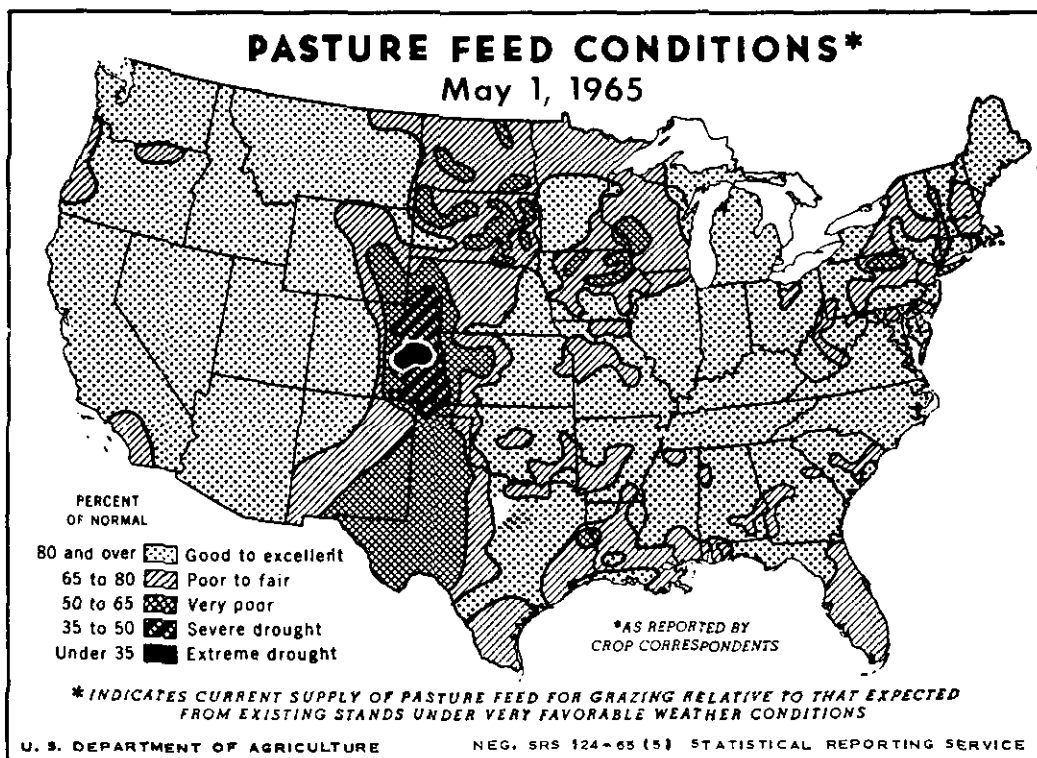
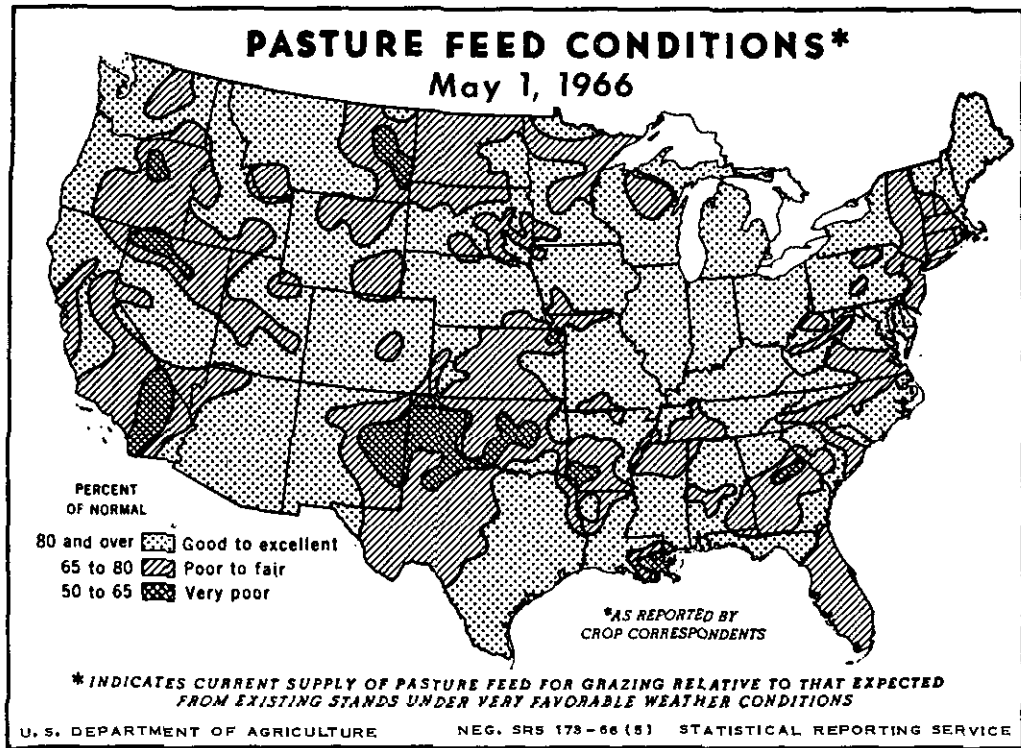
April milk-feed price ratio 9 percent higher

The milk-feed price ratio in April, at 1.45, was 9 percent above the ratio of 1.33 a year earlier. Seasonally, the ratio was down 2 percent from March. The average decline is about 4 percent. Most of the gain from April a year ago resulted from higher milk prices received by producers, with an increase of only 1 percent in the value of concentrate ration. In cream-selling areas, the milkfat-feed price ratio for April was 24.0, compared with 22.6 a year earlier and the April 1960-64 average of 24.4.

May 1 pasture prospects rated better than year ago

Reported dairy pasture condition for the United States averaged 84 percent of normal on May 1. This is 3 percentage points above the 81 percent reported for May 1, 1965 and equal to the 1960-64 average for the date. Improved pasture feed condition resulted primarily from more adequate moisture supplies than a year earlier. However, precipitation during April was above normal only in the Dakotas and in a broad area from Texas northeastward through most

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of the South Central and East North Central States. Except for the Pacific Coast States and adjacent areas, April temperatures were below-normal across the Nation.

Pasture feed condition in all North Atlantic States was above a year ago, although May 1 reports represent only early prospects in New England. Growth in New England was slowed due to cool temperatures and light precipitation during April. Pasturing of cattle was reported in New York, as pastures renewed growth slowly, but Pennsylvania pastures were too wet for use by May 1.

Except in Kansas, pastures in the North Central States were better than a year earlier. The share of roughage needs supplied by grazing on May 1 ranged from none in the northern areas of States bordering Canada, where grasses were dormant, to some two-thirds in Illinois. Pastures in the North Central States were retarded by below normal temperatures during April. As the month ended, Kansas needed more moisture because stock ponds were low and grasses slow in starting growth.

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Table 3.-Dairy pasture feed condition, as percentage of normal, May 1, 1966, with comparisons 1/

State and division	May 1, av. 1960-64	May 1, 1965	May 1, 1966	State and division	May 1, av. 1960-64	May 1, 1965	May 1, 1966
	Percent	Percent	Percent		Percent	Percent	Percent
Me.	89	83	85	N. C.	83	90	83
N. H.	89	76	86	S. C.	80	87	79
Vt.	90	80	82	Ga.	81	87	81
Mass.	90	78	80	Fla.	72	79	74
R. I.	87	80	84	S. Atl. ..	80	87	82
Conn.	90	79	80	Ky.	80	90	84
N. Y.	87	80	85	Tenn.	82	89	82
N. J.	80	76	77	Ala.	79	87	82
Pa.	83	77	86	Miss.	77	83	76
N. Atl.	86	78	84	Ark.	78	83	80
Ohio.....	87	85	91	La.	75	78	83
Ind.	88	88	92	Okla.	80	84	71
Ill.	88	85	90	Tex.	74	74	79
Mich.	91	87	92	S. Cent. .	78	83	79
Wis.	87	67	84	Mont.	77	86	81
E. N. Cent. .	88	81	89	Idaho.....	86	91	84
Minn.	88	79	81	Wyo.	79	79	87
Iowa.....	88	77	85	Colo.	77	63	87
Mo.	81	81	83	N. Mex.	74	57	66
N. Dak.	70	71	73	Ariz.	84	90	87
S. Dak.	79	70	79	Utah.....	83	89	87
Nebr.	85	71	86	Nev.	77	91	76
Kans.	82	79	77	Wash.	85	86	88
W. N. Cent. .	85	77	82	Oreg.	87	84	87
Del.	83	90	90	Calif.	79	89	79
Md.	83	85	88	West.	81	85	83
Va.	79	91	82	U. S.	84	81	84
W. Va.	77	81	81				

1/ Indicates current supply of feed for grazing relative to that expected from existing stands under very favorable weather conditions. U. S. averages may differ from those published in Crop Production in that States are combined with dairy rather than all livestock weights.

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In South Atlantic and South Central States, pasture feed condition on May 1 was generally below last year but above average. Pastures in these States developed slowly in early April because of below normal precipitation and temperature, but later rainfall was sufficient to improve conditions when temperatures increased. Rains late in April brought flooding to north central and northeast Texas and flash floods to other States. Pastures were supplying three-fourths of the livestock roughage requirements in Kentucky near May 1.

In the Western States, May 1 pasture condition in Colorado, Wyoming, Arizona, Utah and Oregon, was 87 percent, excelled only by Washington's 88 percent. Colorado's pasture feed condition was the best for the date since 1958. Pastures in Montana averaged 81 percent of normal and in Idaho averaged 84 percent because cool temperatures retarded growth of grass and limited pasture use during April. However, hay and feed supplies are considered adequate. In California, hot and dry weather continued to deplete soil moisture in dry land pastures, but warmer temperatures stimulated growth in irrigated pastures. In Washington east of the Cascades, cool weather slowed pasture development much more than in western Washington. Some range grasses are reported short in eastern Washington and not expected to produce much forage. In Arizona, dry land pastures dried out considerably in April and livestock were moved from irrigated pastures to summer ranges and feed lots.

Table 4.-Average milk price received by farmers and value of concentrate ration fed to milk cows, by regions, April 1966, with comparisons

Region	Milk price per 100 pounds				Ration value per 100 pounds			
	Apr. av. 1960-64	Apr. 1965	Mar. 1966	Apr. 1966	Apr. av. 1960-64	Apr. 1965	Mar. 1966	Apr. 1966
	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.
N. Atl.	4.27	4.31	4.96	4.81	3.57	3.56	3.58	3.56
E. N. Cent. ..	3.60	3.70	4.26	4.19	2.71	2.82	2.86	2.88
W. N. Cent. ..	3.32	3.41	3.82	3.82	2.37	2.54	2.47	2.50
S. Atl.	5.27	5.38	5.80	5.62	3.34	3.39	3.42	3.41
S. Cent.	4.38	4.43	5.17	4.94	3.10	3.12	3.19	3.18
West.	4.21	4.36	4.61	4.51	3.15	3.18	3.21	3.24
U. S.								
Milk areas....	3.95	4.03	4.54	4.45	2.97	3.03	3.06	3.06
Cream areas...	-	-	-	-	2.47	2.61	2.56	2.59
Milk and cream areas.....	-	-	-	-	2.95	3.02	3.04	3.05

Table 5.-Milk-feed and milkfat-feed price ratio, by regions, April 1966, with comparisons

Region	Milk-feed ratio 1/				Milkfat-feed ratio 2/			
	Apr. av. 1960-64	Apr. 1965	Mar. 1966	Apr. 1966	Apr. av. 1960-64	Apr. 1965	Mar. 1966	Apr. 1966
N. Atl.	1.20	1.21	1.39	1.35	-	-	-	-
E. N. Cent. ..	1.33	1.31	1.49	1.45	20.7	19.9	20.7	20.5
W. N. Cent. ..	1.40	1.34	1.55	1.52	25.9	23.5	26.0	25.3
S. Atl.	1.58	1.59	1.70	1.65	-	-	-	-
S. Cent.	1.41	1.42	1.62	1.55	16.7	16.7	16.6	16.6
West.	1.34	1.37	1.44	1.39	18.6	18.3	18.8	18.6
U. S.	1.33	1.33	1.48	1.45	24.4	22.6	24.6	24.0

1/ Pounds of concentrate ration equal in value to 1 pound of whole milk sold by farmers.

2/ Pounds of concentrate ration equal in value to 1 pound of milkfat in cream sold by farmers.

GRAIN AND OTHER CONCENTRATES FED TO MILK COWS, 1965

During 1965, milk cows in the United States were fed an estimated 22.8 million tons of grain and other concentrates. This was about 1 percent more than the 22.5 million tons fed in 1964. Milk cows on farms where milk or cream was sold consumed 98 percent of the national total; 2 percent was fed on farms where cows were kept for home use only. Nearly one-half of the concentrates fed to milk cows was consumed in the North Central States; the East North Central Region alone accounted for 28 percent of the national total. Wisconsin led all States in the total quantity of grain and concentrates fed to milk cows. Florida, with heavy feeding of citrus pulp, led all States in grain and concentrates fed per cow with 5,290 pounds in 1965. Other States with high feeding rates were New Jersey with 3,810 pounds; Massachusetts, 3,720 pounds; Rhode Island and Connecticut, each 3,650 pounds; and Pennsylvania, 3,550 pounds.

Concentrates fed per 100 pounds of milk up 2 percent

Grain and concentrates fed on farms where milk or cream was sold averaged 36.7 pounds per hundred pounds of milk produced, 2 percent higher than a year earlier. Seasonally, grain and concentrates fed per 100 pounds of milk ranged from 31 pounds in June to 41 pounds in December.

Value of concentrate ration up slightly

Concentrate rations fed to milk cows in 1965 were valued at \$3.02 per hundred pounds, compared with \$3.01 in 1964. Averaged ration values varied seasonally from \$2.98 in November to \$3.05 in July. Regionally, annual average values ranged from \$2.52 in the West North Central to \$3.56 in the North Atlantic; by States, from \$1.76 per hundred pounds in North Dakota to \$3.81 in Connecticut.

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Table 6.-Quantity and value of concentrates fed per 100 pounds of milk produced on farms where milk or cream was sold, United States, by months, 1959-63 average, 1964 and 1965 ^{1/}

Month.	Concentrates fed per 100 pounds of milk			Value per 100 pounds of concentrate ration			Value of concentrates fed per 100 pounds milk produced		
	Average 1959-63	1964	1965	Average 1959-63	1964	1965	Average 1959-63	1964	1965
	Lb.	Lb.	Lb.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.
Jan.	37	39	40	2.92	3.04	3.01	1.08	1.19	1.20
Feb.	37	38	39	2.93	3.03	3.01	1.08	1.15	1.17
Mar.	36	37	38	2.93	3.02	3.02	1.05	1.12	1.15
Apr.	35	36	37	2.93	3.01	3.02	1.03	1.08	1.12
May.....	31	33	34	2.92	3.02	3.02	.91	1.00	1.03
June.....	26	29	31	2.92	3.01	3.04	.76	.87	.94
July.....	29	32	33	2.93	3.01	3.05	.85	.96	1.01
Aug.	31	35	35	2.93	3.00	3.03	.91	1.05	1.06
Sept.	32	37	36	2.92	3.01	3.02	.93	1.11	1.09
Oct.	34	38	38	2.89	2.99	3.01	.98	1.14	1.14
Nov.	36	39	40	2.89	2.98	2.98	1.04	1.16	1.19
Dec.	37	40	41	2.92	3.00	3.01	1.08	1.20	1.23
Year av. ...	33.3	35.9	36.7	2.92	3.01	3.02	.97	1.08	1.11

^{1/} "Concentrates" as used here include the grains and other concentrates that make up the concentrate ration fed to milk cows.

Table 7.—Grain and other concentrates fed to milk cows on farms where milk or cream was sold and on farms where milk was produced for home use only, by States, 1965

State and division	On farms where milk or cream was sold			On farms where milk was produced for home use only		On all farms where milk was produced	
	Fed per 100 pounds milk	Fed per cow	Total fed	Fed per cow	Total fed	Fed per cow	Total fed
	Pounds	Pounds	1,000 tons	Pounds	1,000 tons	Pounds	1,000 tons
Me.	37	3,450	136	1,870	3	3,400	139
N. H.	36	3,270	69	1,810	1	3,230	70
Vt.	35	3,030	353	1,760	1	3,030	354
Mass.	37	3,750	146	1,900	1	3,720	147
R. I.	37	3,630	19	1,870	-	3,650	19
Conn.	37	3,680	130	1,930	1	3,650	131
N. Y.	35	3,300	1,925	1,770	6	3,290	1,931
N. J.	38	3,830	203	1,930	1	3,810	204
Pa.	40	3,570	1,389	1,880	8	3,550	1,397
N. Atl.	36.8	3,409	4,370	1,913	22	3,396	4,392
Ohio.....	38	3,500	971	1,990	13	3,460	984
Ind.	38	3,390	598	1,920	10	3,350	608
Ill.	36	3,230	702	1,790	11	3,190	713
Mich.	36	3,400	1,013	1,890	7	3,380	1,020
Wis.	33	3,040	3,150	1,680	5	3,040	3,155
E. N. Cent. ..	34.9	3,208	6,434	1,857	46	3,192	6,480
Minn.	35	3,000	1,839	1,790	5	3,000	1,844
Iowa.....	38	2,970	1,066	1,840	14	2,940	1,080
Mo.	40	2,470	642	1,490	18	2,430	660
N. Dak.	36	2,450	273	1,500	3	2,430	276
S. Dak.	36	2,320	253	1,410	4	2,290	257
Nebr.	36	2,390	315	1,510	6	2,370	321
Kans.	37	2,500	321	1,460	8	2,460	329
W. N. Cent. ..	36.6	2,749	4,709	1,575	58	2,725	4,767
Del.	41	3,280	35	1,680	1	3,230	36
Md.	41	3,230	320	1,590	4	3,190	324
Va.	38	2,630	342	1,430	14	2,550	356
W. Va.	35	1,970	92	1,120	5	1,900	97
N. C.	41	2,840	300	1,570	16	2,720	316
S. C.	46	2,810	108	1,600	8	2,670	116
Ga.	46	2,790	206	1,620	18	2,640	224
Fla.	68	5,350	468	1,710	3	5,290	471
S. Atl.	45.3	3,160	1,871	1,533	69	3,046	1,940
Ky.	41	2,570	510	1,460	25	2,480	535
Tenn.	44	2,270	459	1,300	26	2,180	485
Ala.	49	2,470	202	1,440	22	2,310	224
Miss.	49	2,170	256	1,280	20	2,060	276
Ark.	48	2,500	182	1,490	12	2,400	194
La.	47	2,400	215	1,400	17	2,290	232
Okla.	49	3,490	303	2,040	16	3,380	319
Tex.	46	3,150	651	1,750	40	3,010	691
S. Cent.	45.6	2,630	2,778	1,500	178	2,516	2,956
Mont.	29	1,790	54	980	2	1,740	56
Idaho.....	25	2,090	182	1,110	2	2,070	184
Wyo.	24	1,690	20	910	1	1,650	21
Colo.	33	2,610	132	1,470	4	2,560	136
N. Mex.	32	2,370	45	1,250	1	2,300	46
Ariz.	31	3,270	80	1,430	2	3,200	82
Utah.....	28	2,460	100	1,270	2	2,400	102
Nev.	25	2,460	16	1,120	-	2,360	16
Wash.	29	2,750	279	1,440	8	2,680	287
Oreg.	27	2,080	127	1,150	4	2,030	131
Calif.	29	3,160	1,225	1,560	6	3,140	1,231
West.	28.7	2,755	2,260	1,280	32	2,712	2,292
U. S.	36.7	3,002	22,422	1,547	405	2,953	22,827

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Value of concentrates fed per 100 pounds of milk up 3 percent

Value of concentrates fed per 100 pounds of milk produced was \$1.11 in 1965 -- 3 percent more than the \$1.08 in 1964. Seasonally, the value of feed per hundredweight of milk ranged from \$.94 in June to \$1.23 in December.

Corn largest single ingredient

As a percentage of the concentrate ration fed to milk cows, corn was the largest single ingredient at 38 percent. Oats accounted for 15 percent, while barley, sorghum, soybeans or soybean meal and wheat bran each equaled about 2 percent of the ration. Commercial mixed feeds accounted for about one-third of the milk-cow ration in 1965, while wheat, cottonseed meal, cottonseed, dried beet pulp, and dried citrus pulp each made up less than 1 percent of the dairy ration.

Corn comprised more than one-half of the ration fed to milk cows in the North Central Region, about 30 percent in the South Atlantic and South Central Regions, 20 percent in the North Atlantic but only 3 percent in the West. Oats are a popular feed ingredient in the North Central States, equaling about one-quarter of the ration in that area. Commercial mixed feeds made up the largest share of the ration in the North and South Atlantic, South Central and Western Regions, ranging from 42 to 72 percent of the ration. Barley was the major portion of the ration in Montana, Idaho, Wyoming, Utah, and Nevada. In Kansas and New Mexico, sorghum grain was the major ingredient in the milk cow ration.

Percentage of home-grown feed declines

As a percentage of the total ration, home-grown grains and concentrates were 42 percent of the milk cow ration in 1965, compared with 45 percent in 1964. Of the oats used in the milk cow ration in 1965, nearly 81 percent was home grown compared with 86 percent in 1964. The home grown portion of the corn used in the ration was 72 percent -- down 6 percentage points from 1964. Of the barley, 59 percent was home grown, compared with 55 percent in 1964.

More favorable milk-feed price ratio in 1965

The milk-feed price ratio in 1965 averaged 1.40 -- about 1 percent above the 1964 average of 1.38. Seasonally, the ratio ranged from a low of 1.27 in June to a high of 1.55 in November. By States, the annual average ratio ranged from 1.24 in New York to 1.99 in Florida.

In cream-selling areas, the milkfat-feed price ratio in 1965 averaged 23.1, compared with 23.9 in 1964.

Table 8.-Individual feeds as percentage of the total concentrate ration fed to milk cows in herds kept by dairy reporters, by States, 1965 1/

State and division	Grains					Oil seeds and oil-seed meals			Wheat bran, shorts	Dried beet pulp	Dried citrus pulp	Commer- cial mixed feeds	Misc. other
	Corn	Oats	Barley	Wheat	Sorghum	Cotton- seed meal	Cot- ton seed	Soybeans or S. B. meal					
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Me.	3	2	-	-	-	-	-	-	-	1	1	93	-
N. H.	3	5	-	-	-	-	-	-	-	2	2	88	-
Vt.	4	2	-	-	-	-	-	-	-	1	2	89	2
Mass.	4	7	-	-	-	-	-	-	-	1	8	79	1
R. I.	5	5	-	-	-	-	-	-	-	5	5	80	-
Conn.	6	4	-	-	-	-	-	-	-	3	4	81	2
N. Y.	15	11	-	1	-	-	-	1	2	-	-	63	7
N. J.	19	6	6	1	-	-	-	2	1	2	-	56	7
Pa.	37	14	3	-	-	-	-	3	2	1	-	34	6
N. Atl. ..	20.0	10.3	1.2	.5	-	-	-	1.5	1.6	.7	.6	58.0	5.6
Ohio.....	64	16	1	1	-	-	-	4	1	-	-	11	2
Ind.	71	11	-	1	-	-	-	3	1	-	-	11	2
Ill.	66	18	1	-	-	-	-	3	1	-	-	10	1
Mich.	61	27	1	1	-	-	-	3	-	-	-	6	1
Wis.	47	33	.1	-	-	-	-	2	3	1	-	8	5
E.N. Cent.	56.1	25.8	.9	.4	-	-	-	2.7	1.8	.5	-	8.6	3.2
Minn.	57	30	1	-	-	-	-	2	1	1	-	7	1
Iowa.....	75	14	-	-	-	-	-	2	1	-	-	8	-
Mo.	43	3	1	-	3	1	1	3	4	-	-	40	1
N. Dak.	3	80	13	1	-	-	-	-	-	-	-	2	1
S. Dak.	42	40	2	-	1	-	-	1	-	-	-	10	4
Nebr.	54	6	1	1	17	-	-	1	1	-	-	17	2
Kans.	20	5	5	2	44	-	-	3	4	-	-	15	2
W.N. Cent.	52.5	22.8	1.8	.3	4.6	.1	.1	2.0	1.5	.4	-	12.8	1.1
Del.	40	8	10	-	-	1	-	1	1	-	4	29	6
Md.	43	5	11	-	-	1	1	3	2	-	1	27	6
Va.	33	3	7	-	-	1	1	3	3	-	-	46	3
W. Va.	29	9	3	-	-	1	-	1	2	-	-	55	-
N. C.	38	2	3	-	-	2	2	5	2	-	-	45	1
S. C.	32	9	1	-	-	6	2	-	1	-	2	46	1
Ga.	27	4	1	-	-	4	1	1	1	-	8	52	1
Fla.	14	-	-	-	-	4	-	-	2	-	28	42	10
S. Atl. ..	30.0	3.3	4.2	-	-	2.5	.9	2.0	2.0	-	8.2	42.4	4.5
Ky.	66	2	-	-	-	1	1	2	1	-	-	26	1
Tenn.	44	3	-	-	-	4	1	2	2	-	-	43	1
Ala.	30	2	-	-	-	3	3	2	2	-	1	56	1
Miss.	32	1	-	-	-	7	1	1	1	-	-	56	1
Ark.	13	1	-	-	1	1	-	-	4	-	-	76	4
La.	14	2	-	-	-	4	2	1	1	-	-	74	2
Okla.	4	8	10	-	24	4	1	-	8	-	-	38	3
Tex.	10	4	1	-	19	7	-	-	4	-	-	50	5
S. Cent. .	29.2	3.1	1.3	-	7.2	4.2	.9	1.0	2.9	-	.1	47.7	2.4
Mont.	1	15	41	2	-	-	-	-	2	2	-	36	1
Idaho.....	4	8	39	7	-	-	-	-	2	10	-	13	17
Wyo.	8	6	57	2	1	-	-	-	-	4	-	21	1
Colo.	18	8	11	4	9	-	-	-	-	2	-	46	2
N. Mex.	3	4	6	-	33	-	-	-	3	1	-	30	20
Ariz.	1	-	17	-	7	1	-	-	2	1	-	70	1
Utah.....	4	1	43	4	1	-	-	-	1	15	-	31	-
Nev.	-	-	53	-	9	-	-	-	7	-	-	31	-
Wash.	2	3	2	-	-	-	-	-	2	2	-	86	3
Oreg.	1	4	3	1	-	-	-	-	2	1	-	87	1
Calif.	2	1	3	1	1	-	-	-	2	2	-	86	2
West.	3.1	2.8	10.3	1.6	2.1	-	-	-	1.9	3.1	-	71.6	3.5
U. S.	37.5	15.1	2.4	.4	2.1	.8	.2	1.8	1.9	.7	.8	33.1	3.2

1/ Based on reports of rations fed on May 1 and November 1.

Table 9.-Home-grown feeds as percentage of total of that kind used in the concentrate ration fed to milk cows kept by dairy reporters, by States, 1964 and 1965 1/

State and division	Total concentrate ration		Corn		Oats		Barley	
	1964	1965	1964	1965	1964	1965	1964	1965
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Me.	2	a/	-	a/	80	a/	-	-
N. H.	a/	a/	a/	a/	-	5	-	-
Vt.	a/	1	a/	5	-	36	-	-
Mass.	a/	a/	a/	a/	-	a/	-	-
R. I.	a/	a/	-	a/	-	a/	-	-
Conn.	a/	1	a/	23	20	a/	-	-
N. Y.	16	17	66	42	93	84	-	-
N. J.	18	18	72	55	66	36	89	68
Pa.	40	40	73	67	82	77	88	86
N. Atl.	20.9	21.0	70.4	55.9	87.0	74.7	88.0	82.0
Ohio.....	73	73	87	88	93	90	89	90
Ind.	74	72	88	87	87	77	-	-
Ill.	77	78	89	91	87	89	-	86
Mich.	75	74	83	78	90	89	74	74
Wis.	65	59	75	65	88	83	-	56
E. N. Cent.	70.3	66.5	82.0	77.1	88.7	84.9	81.6	68.3
Minn.	74	71	83	79	90	82	71	80
Iowa.....	82	80	93	90	90	87	-	-
Mo.	35	35	69	69	90	92	85	63
N. Dak.	88	85	62	66	94	88	90	85
S. Dak.	77	73	81	80	81	87	64	65
Nebr.	62	58	77	77	67	55	69	43
Kans.	50	39	69	78	70	47	78	38
W. N. Cent.	69.1	66.0	83.7	81.3	89.2	83.6	79.1	70.4
Del.	59	46	89	77	66	90	72	60
Md.	46	46	73	71	64	82	79	86
Va.	21	21	39	38	74	75	84	75
W. Va.	27	23	51	50	66	68	63	80
N. C.	28	25	64	59	52	56	51	46
S. C.	20	23	54	50	62	63	85	89
Ga.	13	12	42	35	62	49	62	67
Fla.	5	5	42	38	-	-	-	-
S. Atl.	22.4	21.7	56.4	52.4	63.1	69.2	76.2	76.0
Ky.	57	51	78	75	81	54	83	-
Tenn.	36	33	65	68	70	58	80	-
Ala.	16	12	40	32	45	35	-	-
Miss.	27	17	71	49	37	31	-	-
Ark.	7	5	31	35	40	20	-	-
La.	7	4	23	29	38	22	-	-
Okla.	13	16	28	34	54	39	20	44
Tex.	4	6	16	17	37	25	22	15
S. Cent.	23.3	21.1	62.1	59.3	50.9	37.9	35.4	38.9
Mont.	29	30	39	38	66	68	42	44
Idaho.....	36	45	75	87	74	77	49	53
Wyo.	34	39	76	50	53	71	40	50
Colo.	17	14	48	32	53	27	36	23
N. Mex.	12	5	38	42	a/	a/	40	a/
Ariz.	9	10	24	50	-	-	44	54
Utah.....	31	32	38	50	75	56	53	64
Nev.	30	26	-	-	-	-	62	50
Wash.	3	3	12	37	51	71	35	20
Oreg.	9	4	54	62	70	38	55	51
Calif.	1	1	15	a/	10	a/	8	16
West.	8.6	8.5	32.5	29.5	55.9	46.0	36.3	44.7
U. S.	44.6	42.3	77.5	72.3	86.1	80.9	54.7	59.0

1/ Percentages shown are based on reports of rations fed on May 1 and November 1. For corn, oats, and barley, figures are shown only for States where that kind of grain was reported in milk cow rations. a/ Less than .5 of 1 percent.

Table 10.-Estimated value per 100 pounds of concentrate rations fed to milk cows, by States and months, 1965 1/

State and division	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.
Me.	3.96	3.88	3.84	3.79	3.78	3.76	3.75	3.75	3.76	3.77	3.79	3.81	3.80
N. H.	3.90	3.87	3.82	3.78	3.75	3.70	3.70	3.73	3.73	3.71	3.71	3.74	3.76
Vt.	3.90	3.86	3.81	3.76	3.74	3.70	3.68	3.68	3.70	3.73	3.76	3.78	3.76
Mass.	3.86	3.82	3.80	3.76	3.72	3.68	3.64	3.66	3.68	3.72	3.74	3.76	3.74
R. I.	3.80	3.78	3.74	3.74	3.73	3.72	3.71	3.73	3.75	3.77	3.80	3.82	3.76
Conn.	3.97	3.90	3.84	3.80	3.82	3.78	3.74	3.74	3.76	3.78	3.78	3.82	3.81
N. Y.	3.59	3.61	3.58	3.56	3.54	3.56	3.58	3.60	3.60	3.59	3.57	3.60	3.58
N. J.	3.66	3.65	3.64	3.62	3.61	3.61	3.60	3.60	3.58	3.56	3.58	3.62	3.61
Pa.	3.39	3.40	3.41	3.40	3.42	3.44	3.44	3.46	3.46	3.44	3.42	3.41	3.42
N. Atl.	3.60	3.58	3.57	3.56	3.54	3.54	3.56	3.57	3.56	3.56	3.54	3.58	3.56
Ohio.....	2.80	2.84	2.88	2.92	2.95	2.98	3.02	3.00	3.00	3.00	2.96	2.98	2.94
Ind.	2.79	2.81	2.82	2.82	2.84	2.86	2.84	2.80	2.78	2.74	2.70	2.72	2.79
Ill.	2.58	2.62	2.64	2.66	2.68	2.68	2.66	2.62	2.58	2.57	2.55	2.58	2.62
Mich.	2.94	2.94	2.92	2.90	2.90	2.91	2.92	2.89	2.92	2.94	2.88	2.86	2.91
Wis.	2.76	2.78	2.80	2.83	2.86	2.86	2.88	2.86	2.84	2.82	2.80	2.78	2.82
E. N. Cent. ..	2.80	2.81	2.82	2.82	2.83	2.85	2.88	2.86	2.85	2.85	2.82	2.82	2.83
Minn.	2.64	2.65	2.68	2.70	2.70	2.68	2.66	2.65	2.64	2.64	2.64	2.60	2.66
Iowa.....	2.36	2.40	2.42	2.43	2.43	2.43	2.42	2.38	2.34	2.30	2.26	2.28	2.37
Mo.	2.80	2.84	2.88	2.92	2.90	2.88	2.86	2.82	2.80	2.76	2.78	2.82	2.84
N. Dak.	1.74	1.78	1.80	1.82	1.82	1.80	1.78	1.74	1.72	1.70	1.70	1.72	1.76
S. Dak.	2.14	2.16	2.18	2.19	2.19	2.18	2.18	2.16	2.14	2.12	2.08	2.10	2.15
Nebr.	2.38	2.40	2.42	2.43	2.43	2.43	2.41	2.36	2.32	2.28	2.22	2.26	2.36
Kans.	2.58	2.60	2.62	2.62	2.62	2.62	2.60	2.58	2.54	2.48	2.46	2.50	2.57
W. N. Cent. ..	2.50	2.52	2.52	2.54	2.56	2.58	2.56	2.53	2.53	2.50	2.45	2.50	2.52
Del.	3.28	3.32	3.32	3.30	3.30	3.32	3.32	3.28	3.24	3.19	3.24	3.28	3.28
Md.	3.34	3.38	3.36	3.36	3.36	3.40	3.42	3.38	3.32	3.26	3.30	3.35	3.35
Va.	3.50	3.54	3.56	3.58	3.58	3.54	3.52	3.54	3.48	3.44	3.40	3.44	3.51
W. Va.	3.82	3.84	3.80	3.76	3.76	3.78	3.80	3.84	3.80	3.76	3.72	3.76	3.79
N. C.	3.48	3.50	3.52	3.48	3.50	3.48	3.48	3.48	3.42	3.36	3.38	3.42	3.46
S. C.	3.42	3.44	3.44	3.46	3.48	3.48	3.48	3.48	3.40	3.34	3.36	3.40	3.43
Ga.	3.34	3.36	3.36	3.38	3.38	3.38	3.40	3.36	3.32	3.32	3.34	3.37	3.36
Fla.	3.08	3.06	3.04	3.04	3.06	3.08	3.10	3.12	3.16	3.16	3.12	3.08	3.09
S. Atl.	3.38	3.38	3.39	3.39	3.40	3.38	3.36	3.38	3.34	3.30	3.32	3.36	3.36
Ky.	3.16	3.20	3.24	3.24	3.24	3.22	3.20	3.16	3.10	3.04	3.08	3.12	3.17
Tenn.	3.16	3.18	3.18	3.20	3.20	3.22	3.24	3.22	3.16	3.10	3.06	3.12	3.17
Ala.	3.12	3.16	3.16	3.14	3.16	3.16	3.20	3.18	3.14	3.08	3.04	3.08	3.14
Miss.	3.08	3.08	3.10	3.12	3.12	3.14	3.18	3.18	3.12	3.06	3.04	3.08	3.11
Ark.	3.08	3.06	3.04	3.02	3.02	3.04	3.07	3.09	3.09	3.09	3.12	3.14	3.07
La.	3.37	3.37	3.34	3.30	3.32	3.32	3.32	3.30	3.28	3.26	3.24	3.28	3.31
Okla.	2.90	2.93	2.93	2.93	2.92	2.90	2.88	2.90	2.88	2.84	2.86	2.88	2.90
Tex.	3.06	3.03	3.01	2.98	2.98	2.96	2.96	2.96	2.96	2.96	2.99	3.03	2.99
S. Cent.	3.10	3.12	3.13	3.12	3.12	3.14	3.16	3.15	3.12	3.08	3.08	3.10	3.12
Mont.	2.32	2.36	2.38	2.40	2.42	2.42	2.43	2.40	2.38	2.36	2.34	2.32	2.38
Idaho.....	2.70	2.72	2.74	2.75	2.73	2.73	2.70	2.68	2.66	2.64	2.66	2.68	2.70
Wyo.	2.73	2.74	2.73	2.72	2.70	2.70	2.67	2.65	2.60	2.58	2.60	2.62	2.67
Colo.	2.98	3.00	3.02	3.00	3.00	3.00	2.98	2.92	2.88	2.91	2.91	2.96	2.96
N. Mex.	3.38	3.40	3.38	3.36	3.34	3.34	3.34	3.32	3.32	3.32	3.30	3.28	3.34
Ariz.	3.64	3.68	3.70	3.70	3.70	3.72	3.70	3.70	3.68	3.66	3.62	3.66	3.68
Utah.....	2.92	2.94	2.96	2.97	2.98	2.98	2.98	2.98	2.96	2.94	2.92	2.94	2.96
Nev.	3.32	3.30	3.30	3.29	3.29	3.31	3.34	3.28	3.34	3.36	3.40	3.40	3.33
Wash.	3.33	3.33	3.32	3.32	3.32	3.33	3.33	3.34	3.35	3.36	3.38	3.42	3.34
Oreg.	3.29	3.32	3.32	3.32	3.32	3.32	3.36	3.40	3.40	3.40	3.36	3.40	3.35
Calif.	3.28	3.24	3.22	3.20	3.20	3.20	3.20	3.20	3.18	3.16	3.18	3.20	3.20
West.	3.17	3.17	3.17	3.18	3.18	3.20	3.20	3.18	3.16	3.18	3.16	3.18	3.18
U. S.:													
Milk areas 2/.	3.02	3.03	3.03	3.03	3.04	3.05	3.06	3.05	3.03	3.02	3.00	3.02	3.03
Cream areas 2/	2.57	2.59	2.59	2.61	2.62	2.64	2.63	2.60	2.60	2.57	2.53	2.57	2.59
All areas.....	3.01	3.01	3.02	3.02	3.02	3.04	3.05	3.03	3.02	3.01	2.98	3.01	3.02

See footnotes on page 16.

Table 11. -Estimated value per 100 pounds of concentrate rations fed to milk cows, by States and months, 1964 1/

State and division	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.
Me.	4.05	3.96	3.88	3.80	3.80	3.81	3.82	3.84	3.87	3.91	3.96	4.02	3.89
N. H.	3.95	3.88	3.84	3.79	3.76	3.73	3.71	3.73	3.76	3.80	3.85	3.90	3.81
Vt.	3.87	3.85	3.83	3.80	3.79	3.78	3.77	3.76	3.77	3.80	3.85	3.90	3.81
Mass.	3.90	3.86	3.82	3.78	3.77	3.75	3.73	3.73	3.75	3.78	3.84	3.88	3.80
R. I.	3.85	3.81	3.76	3.72	3.71	3.72	3.74	3.77	3.76	3.76	3.80	3.84	3.77
Conn.	4.00	3.96	3.91	3.88	3.85	3.83	3.84	3.86	3.87	3.88	3.92	3.96	3.90
N. Y.	3.65	3.65	3.64	3.60	3.58	3.60	3.57	3.56	3.58	3.60	3.56	3.60	3.60
N. J.	3.73	3.71	3.70	3.69	3.68	3.65	3.63	3.60	3.64	3.67	3.66	3.68	3.67
Pa.	3.46	3.46	3.46	3.45	3.44	3.43	3.41	3.40	3.42	3.44	3.42	3.40	3.43
N. Atl.	3.64	3.62	3.60	3.58	3.57	3.55	3.55	3.54	3.56	3.58	3.59	3.60	3.58
Ohio.....	2.93	2.93	2.92	2.91	2.92	2.93	2.95	2.91	2.88	2.85	2.81	2.78	2.89
Ind.	2.87	2.84	2.80	2.76	2.80	2.84	2.88	2.84	2.79	2.73	2.73	2.78	2.80
Ill.	2.54	2.53	2.54	2.55	2.56	2.54	2.58	2.58	2.60	2.56	2.52	2.56	2.56
Mich.	2.92	2.96	2.94	2.92	2.90	2.88	2.86	2.88	2.92	2.94	2.90	2.92	2.91
Wis.	2.79	2.79	2.79	2.80	2.80	2.80	2.79	2.78	2.77	2.76	2.72	2.76	2.78
E.N. Cent. .	2.82	2.80	2.78	2.78	2.79	2.80	2.81	2.82	2.83	2.80	2.77	2.79	2.80
Winn.	2.57	2.57	2.56	2.55	2.54	2.52	2.49	2.49	2.52	2.56	2.60	2.62	2.55
Iowa.....	2.36	2.38	2.39	2.39	2.39	2.38	2.36	2.34	2.33	2.32	2.29	2.32	2.35
Mo.	2.81	2.79	2.76	2.74	2.76	2.78	2.78	2.74	2.74	2.75	2.75	2.78	2.76
N. Dak.	1.70	1.72	1.70	1.68	1.66	1.64	1.62	1.60	1.62	1.65	1.68	1.71	1.66
S. Dak.	2.08	2.08	2.10	2.12	2.15	2.14	2.12	2.10	2.08	2.06	2.08	2.12	2.10
Nebr.	2.20	2.24	2.26	2.28	2.30	2.30	2.28	2.26	2.28	2.28	2.32	2.34	2.28
Kans.	2.51	2.52	2.51	2.50	2.49	2.46	2.45	2.45	2.48	2.50	2.52	2.56	2.50
W.N. Cent. .	2.46	2.45	2.46	2.46	2.47	2.46	2.45	2.44	2.46	2.45	2.44	2.48	2.46
Del.	3.40	3.36	3.32	3.30	3.26	3.25	3.26	3.24	3.20	3.16	3.20	3.24	3.27
Md.	3.47	3.44	3.40	3.37	3.34	3.32	3.31	3.29	3.26	3.24	3.26	3.30	3.33
Va.	3.56	3.59	3.57	3.56	3.52	3.49	3.49	3.46	3.44	3.42	3.44	3.46	3.50
W. Va.	3.97	3.97	3.93	3.91	3.84	3.80	3.74	3.70	3.70	3.74	3.76	3.80	3.82
N. C.	3.40	3.43	3.46	3.49	3.49	3.49	3.49	3.46	3.43	3.42	3.41	3.44	3.45
S. C.	3.46	3.46	3.46	3.45	3.44	3.41	3.38	3.36	3.35	3.35	3.36	3.40	3.41
Ge.	3.45	3.42	3.40	3.36	3.36	3.35	3.35	3.34	3.32	3.28	3.28	3.32	3.35
Fla.	3.18	3.18	3.16	3.14	3.12	3.16	3.12	3.12	3.10	3.10	3.14	3.10	3.14
S. Atl.	3.43	3.43	3.43	3.44	3.45	3.40	3.37	3.35	3.34	3.34	3.36	3.38	3.39
Ky.	3.25	3.25	3.25	3.26	3.25	3.23	3.21	3.20	3.16	3.12	3.10	3.14	3.20
Tenn.	3.16	3.14	3.14	3.13	3.13	3.13	3.14	3.12	3.10	3.10	3.08	3.12	3.12
Ala.	3.15	3.16	3.17	3.18	3.18	3.17	3.16	3.14	3.10	3.08	3.05	3.08	3.14
Miss.	3.12	3.16	3.12	3.12	3.14	3.18	3.21	3.18	3.14	3.09	3.08	3.08	3.14
Ark.	3.16	3.14	3.10	3.08	3.08	3.07	3.06	3.05	3.05	3.05	3.04	3.08	3.08
La.	3.44	3.42	3.40	3.40	3.38	3.40	3.40	3.38	3.34	3.30	3.32	3.36	3.38
Okla.	2.94	2.96	2.94	2.93	2.90	2.86	2.88	2.89	2.86	2.85	2.85	2.88	2.90
Tex.	3.21	3.20	3.18	3.15	3.15	3.13	3.12	3.10	3.08	3.06	3.06	3.10	3.13
S. Cent. ...	3.20	3.20	3.16	3.16	3.14	3.14	3.14	3.13	3.10	3.06	3.04	3.07	3.13
Mont.	2.36	2.34	2.30	2.32	2.34	2.30	2.26	2.20	2.22	2.25	2.27	2.30	2.29
Idaho.....	2.66	2.69	2.71	2.70	2.70	2.70	2.65	2.61	2.62	2.64	2.66	2.68	2.67
Wyo.	2.56	2.60	2.64	2.66	2.68	2.68	2.66	2.62	2.60	2.62	2.66	2.70	2.64
Colo.	2.92	2.96	2.98	2.98	2.96	2.94	2.92	2.92	2.94	2.94	2.96	3.00	2.95
N. Mex.	3.40	3.44	3.42	3.40	3.36	3.32	3.29	3.29	3.30	3.32	3.36	3.40	3.36
Ariz.	3.75	3.71	3.67	3.63	3.58	3.54	3.50	3.50	3.52	3.54	3.58	3.60	3.59
Utah.....	2.95	2.96	2.96	2.96	2.94	2.92	2.90	2.88	2.86	2.84	2.86	2.88	2.91
Nev.	3.40	3.44	3.48	3.52	3.52	3.48	3.46	3.44	3.38	3.34	3.32	3.36	3.43
Wash.	3.38	3.38	3.36	3.36	3.36	3.36	3.32	3.36	3.34	3.34	3.32	3.32	3.35
Oreg.	3.24	3.28	3.24	3.25	3.24	3.20	3.20	3.25	3.24	3.24	3.24	3.26	3.24
Calif.	3.31	3.31	3.32	3.32	3.32	3.34	3.35	3.35	3.32	3.32	3.32	3.33	3.33
West.	3.22	3.21	3.20	3.20	3.22	3.20	3.22	3.20	3.18	3.14	3.15	3.13	3.19
U. S.:													
Milk areas 2/	3.06	3.05	3.03	3.03	3.03	3.03	3.03	3.02	3.02	3.01	3.00	3.02	3.03
Green areas 2/	2.53	2.52	2.53	2.53	2.54	2.53	2.53	2.52	2.53	2.52	2.51	2.54	2.53
All areas.....	3.04	3.03	3.02	3.01	3.02	3.01	3.01	3.00	3.01	2.99	2.98	3.00	3.01

See footnotes on page 16.

Table 12.-Milk-feed price ratios, by States and months, 1965 1/

State and division	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Me.	1.38	1.39	1.34	1.25	1.22	1.22	1.35	1.41	1.48	1.56	1.57	1.54	1.39
N. H.	1.45	1.43	1.40	1.32	1.29	1.28	1.43	1.47	1.54	1.63	1.64	1.59	1.46
Vt.	1.27	1.28	1.23	1.14	1.11	1.12	1.25	1.32	1.38	1.43	1.45	1.42	1.28
Mass.	1.49	1.49	1.45	1.37	1.33	1.33	1.48	1.54	1.60	1.64	1.66	1.62	1.50
R. I.	1.50	1.51	1.46	1.36	1.30	1.30	1.44	1.50	1.55	1.62	1.63	1.61	1.48
Conn.	1.46	1.46	1.43	1.32	1.24	1.27	1.50	1.52	1.62	1.65	1.68	1.62	1.48
N. Y.	1.25	1.22	1.19	1.12	1.07	1.08	1.20	1.28	1.32	1.38	1.41	1.35	1.24
N. J.	1.42	1.37	1.35	1.26	1.18	1.24	1.36	1.43	1.49	1.54	1.56	1.51	1.39
Pa.	1.46	1.43	1.39	1.33	1.26	1.25	1.34	1.37	1.45	1.49	1.53	1.51	1.40
N. Atl.	1.34	1.32	1.29	1.21	1.16	1.17	1.28	1.34	1.41	1.46	1.49	1.43	1.32
Ohio.....	1.63	1.58	1.51	1.40	1.32	1.29	1.29	1.39	1.49	1.54	1.63	1.63	1.48
Ind.	1.54	1.51	1.49	1.40	1.30	1.29	1.32	1.45	1.60	1.68	1.76	1.75	1.51
Ill.	1.53	1.49	1.44	1.41	1.34	1.31	1.33	1.41	1.51	1.58	1.63	1.65	1.47
Mich.	1.43	1.45	1.44	1.43	1.38	1.36	1.35	1.40	1.42	1.46	1.55	1.57	1.44
Wis.	1.29	1.26	1.22	1.22	1.20	1.18	1.18	1.23	1.30	1.34	1.37	1.39	1.26
E. N. Cent.	1.39	1.37	1.34	1.31	1.28	1.25	1.25	1.32	1.39	1.44	1.49	1.49	1.36
Minn.	1.24	1.23	1.22	1.20	1.20	1.21	1.23	1.27	1.33	1.36	1.35	1.38	1.27
Iowa.....	1.53	1.48	1.45	1.42	1.40	1.38	1.38	1.47	1.54	1.61	1.68	1.67	1.50
Mo.	1.48	1.43	1.39	1.25	1.21	1.22	1.24	1.33	1.43	1.54	1.56	1.58	1.39
N. Dak.	1.98	1.88	1.83	1.81	1.76	1.75	1.80	1.87	2.01	2.09	2.09	2.06	1.91
S. Dak.	1.61	1.55	1.54	1.53	1.48	1.47	1.49	1.55	1.61	1.70	1.78	1.79	1.59
Nebr.	1.64	1.62	1.57	1.46	1.38	1.36	1.45	1.50	1.70	1.78	1.85	1.77	1.59
Kans.	1.69	1.63	1.60	1.51	1.43	1.41	1.44	1.53	1.63	1.71	1.77	1.76	1.59
W. N. Cent.	1.42	1.39	1.38	1.34	1.31	1.29	1.32	1.39	1.46	1.52	1.56	1.52	1.41
Del.	1.63	1.61	1.58	1.45	1.39	1.40	1.55	1.57	1.65	1.71	1.73	1.69	1.58
Md.	1.59	1.55	1.50	1.41	1.34	1.37	1.45	1.45	1.57	1.66	1.67	1.64	1.52
Va.	1.53	1.53	1.46	1.38	1.28	1.31	1.35	1.34	1.45	1.53	1.60	1.60	1.45
W. Va.	1.34	1.32	1.28	1.18	1.13	1.12	1.16	1.21	1.29	1.34	1.38	1.38	1.26
N. C.	1.70	1.70	1.69	1.64	1.59	1.56	1.59	1.59	1.73	1.79	1.81	1.75	1.68
S. C.	1.75	1.74	1.73	1.65	1.61	1.58	1.58	1.67	1.79	1.81	1.79	1.76	1.70
Ga.	1.84	1.85	1.82	1.73	1.67	1.63	1.69	1.73	1.84	1.88	1.84	1.81	1.78
Fla.	2.08	2.09	2.09	2.06	1.96	1.95	1.94	1.92	1.91	1.91	1.97	2.01	1.99
S. Atl.	1.70	1.70	1.66	1.59	1.50	1.52	1.57	1.57	1.66	1.72	1.74	1.73	1.64
Ky.	1.38	1.33	1.25	1.14	1.08	1.09	1.11	1.19	1.35	1.45	1.49	1.52	1.28
Tenn.	1.50	1.46	1.42	1.30	1.25	1.23	1.23	1.27	1.41	1.52	1.60	1.59	1.40
Ala.	1.91	1.85	1.82	1.77	1.74	1.72	1.72	1.75	1.83	1.92	1.99	1.93	1.83
Miss.	1.67	1.69	1.65	1.49	1.46	1.45	1.45	1.46	1.59	1.70	1.79	1.79	1.60
Ark.	1.64	1.58	1.51	1.39	1.36	1.37	1.37	1.41	1.49	1.60	1.63	1.67	1.50
La.	1.71	1.77	1.75	1.67	1.70	1.70	1.72	1.68	1.78	1.83	1.84	1.77	1.74
Okla.	1.71	1.69	1.60	1.47	1.42	1.47	1.55	1.55	1.63	1.74	1.75	1.74	1.61
Tex.	1.75	1.75	1.59	1.54	1.51	1.54	1.66	1.72	1.79	1.84	1.84	1.83	1.70
S. Cent.	1.64	1.61	1.52	1.42	1.37	1.36	1.39	1.43	1.56	1.65	1.70	1.71	1.53
Mont.	2.03	1.97	1.93	1.85	1.76	1.74	1.79	1.83	2.02	2.03	2.12	2.11	1.93
Idaho.....	1.33	1.29	1.26	1.25	1.23	1.19	1.20	1.25	1.32	1.38	1.41	1.44	1.30
Wyo.	1.58	1.53	1.52	1.49	1.46	1.44	1.44	1.51	1.62	1.67	1.67	1.72	1.55
Colo.	1.68	1.67	1.64	1.60	1.55	1.55	1.56	1.63	1.74	1.75	1.79	1.79	1.66
N. Mex.	1.60	1.57	1.48	1.44	1.41	1.36	1.41	1.45	1.54	1.58	1.62	1.66	1.51
Ariz.	1.48	1.44	1.35	1.30	1.28	1.26	1.31	1.35	1.44	1.46	1.46	1.50	1.39
Utah.....	1.46	1.39	1.39	1.35	1.31	1.28	1.28	1.31	1.42	1.45	1.51	1.55	1.39
Nev.	1.64	1.62	1.58	1.53	1.50	1.45	1.48	1.55	1.59	1.61	1.62	1.63	1.57
Wash.	1.35	1.32	1.31	1.28	1.22	1.22	1.23	1.27	1.34	1.35	1.35	1.36	1.30
Oreg.	1.52	1.45	1.39	1.36	1.28	1.28	1.28	1.31	1.40	1.44	1.49	1.46	1.39
Calif.	1.45	1.43	1.39	1.39	1.36	1.34	1.34	1.36	1.41	1.45	1.47	1.51	1.41
West.	1.47	1.43	1.39	1.37	1.33	1.30	1.31	1.35	1.41	1.44	1.47	1.50	1.40
U. S.	1.44	1.41	1.38	1.33	1.28	1.27	1.32	1.38	1.46	1.51	1.55	1.53	1.40

1/ Pounds of concentrate ration equal in value to 1 pound of whole milk sold by farmers to plants and dealers. Obtained by dividing the price per 100 pounds received by farmers for milk (as published in the report, Agricultural Prices) by the value per 100 pounds of concentrate rations fed to milk cows. Ratios are preliminary for 1965.

Table 13.-Milk-feed price ratios, by States and months, 1964 1/

State and division	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Me.	1.37	1.35	1.35	1.26	1.21	1.18	1.35	1.41	1.42	1.51	1.46	1.42	1.36
N. H.	1.44	1.40	1.38	1.31	1.28	1.26	1.46	1.51	1.52	1.58	1.53	1.50	1.43
Vt.	1.29	1.26	1.21	1.13	1.08	1.07	1.23	1.30	1.33	1.41	1.38	1.32	1.25
Mass.	1.51	1.48	1.45	1.36	1.31	1.31	1.47	1.53	1.57	1.61	1.56	1.53	1.47
R. I.	1.56	1.52	1.50	1.41	1.35	1.36	1.48	1.51	1.65	1.62	1.59	1.55	1.51
Conn.	1.49	1.44	1.43	1.31	1.25	1.27	1.51	1.53	1.58	1.62	1.58	1.54	1.46
N. Y.	1.25	1.21	1.16	1.11	1.05	1.04	1.18	1.25	1.30	1.34	1.37	1.30	1.21
N. J.	1.44	1.41	1.37	1.29	1.23	1.24	1.35	1.42	1.46	1.51	1.50	1.46	1.39
Pa.	1.44	1.42	1.36	1.29	1.23	1.23	1.32	1.37	1.44	1.50	1.51	1.49	1.38
N. Atl.	1.35	1.31	1.27	1.20	1.14	1.14	1.27	1.34	1.39	1.44	1.43	1.39	1.31
Ohio.....	1.53	1.49	1.44	1.35	1.28	1.26	1.27	1.37	1.50	1.61	1.64	1.69	1.45
Ind.	1.50	1.50	1.46	1.38	1.29	1.25	1.27	1.36	1.54	1.67	1.68	1.67	1.46
Ill.	1.52	1.50	1.44	1.39	1.33	1.32	1.36	1.41	1.46	1.56	1.61	1.58	1.46
Mich.	1.46	1.40	1.39	1.40	1.34	1.34	1.36	1.37	1.39	1.43	1.47	1.46	1.40
Wis.	1.25	1.23	1.21	1.19	1.18	1.16	1.19	1.23	1.31	1.35	1.38	1.32	1.25
E. N. Cent.	1.37	1.35	1.32	1.29	1.25	1.22	1.25	1.30	1.37	1.44	1.47	1.44	1.34
Minn.	1.26	1.24	1.24	1.25	1.24	1.24	1.27	1.30	1.35	1.34	1.32	1.28	1.28
Iowa.....	1.50	1.45	1.44	1.42	1.36	1.34	1.38	1.41	1.48	1.53	1.59	1.57	1.46
Mo.	1.49	1.48	1.42	1.32	1.26	1.26	1.27	1.35	1.42	1.53	1.55	1.54	1.41
N. Dak.	1.94	1.89	1.88	1.88	1.87	1.86	1.94	2.00	2.07	2.09	2.02	1.99	1.95
S. Dak.	1.61	1.59	1.55	1.53	1.47	1.45	1.49	1.52	1.61	1.70	1.68	1.67	1.57
Nebr.	1.80	1.72	1.66	1.54	1.46	1.43	1.51	1.53	1.69	1.78	1.75	1.71	1.63
Kans.	1.69	1.67	1.61	1.54	1.47	1.50	1.51	1.55	1.61	1.70	1.71	1.70	1.60
W. N. Cent.	1.43	1.41	1.38	1.36	1.32	1.32	1.34	1.39	1.45	1.51	1.52	1.47	1.41
Del.....	1.47	1.47	1.48	1.39	1.37	1.37	1.52	1.53	1.61	1.74	1.70	1.68	1.53
Md.....	1.46	1.44	1.38	1.36	1.32	1.36	1.45	1.46	1.56	1.67	1.63	1.61	1.48
Va.....	1.46	1.45	1.39	1.35	1.31	1.32	1.33	1.33	1.42	1.55	1.54	1.56	1.42
W. Va.	1.26	1.25	1.21	1.13	1.08	1.09	1.12	1.18	1.32	1.39	1.37	1.36	1.23
N. C.	1.75	1.73	1.66	1.61	1.58	1.55	1.56	1.56	1.69	1.77	1.74	1.72	1.66
S. C.	1.76	1.75	1.69	1.67	1.66	1.66	1.61	1.67	1.76	1.82	1.82	1.71	1.72
Ga.....	1.84	1.83	1.76	1.74	1.74	1.72	1.69	1.68	1.81	1.91	1.88	1.82	1.78
Fla.....	2.11	2.08	1.99	2.01	2.02	1.99	2.02	2.04	2.05	2.06	2.04	2.06	2.04
S. Atl.	1.67	1.65	1.59	1.55	1.50	1.51	1.55	1.55	1.65	1.73	1.71	1.70	1.61
Ky.	1.32	1.29	1.23	1.09	1.05	1.05	1.06	1.14	1.28	1.41	1.45	1.48	1.24
Tenn.	1.53	1.50	1.42	1.31	1.26	1.26	1.24	1.28	1.39	1.52	1.54	1.54	1.40
Ala.	1.87	1.85	1.83	1.78	1.78	1.75	1.79	1.80	1.85	1.92	1.98	1.95	1.85
Miss.	1.75	1.68	1.62	1.54	1.48	1.43	1.42	1.45	1.56	1.75	1.74	1.72	1.60
Ark.	1.58	1.54	1.45	1.40	1.33	1.34	1.34	1.41	1.48	1.64	1.66	1.66	1.49
La.	1.73	1.73	1.65	1.59	1.61	1.63	1.63	1.60	1.68	1.83	1.79	1.74	1.68
Okla.	1.67	1.64	1.56	1.48	1.47	1.54	1.53	1.56	1.63	1.75	1.75	1.77	1.61
Tex.	1.72	1.70	1.55	1.49	1.49	1.50	1.56	1.61	1.68	1.77	1.79	1.77	1.64
S. Cent.	1.62	1.58	1.50	1.40	1.37	1.36	1.37	1.42	1.53	1.67	1.70	1.70	1.52
Mont.	2.01	1.99	1.96	1.90	1.79	1.78	1.86	1.98	2.05	2.09	2.11	2.11	1.97
Idaho.....	1.37	1.32	1.27	1.24	1.20	1.19	1.21	1.25	1.32	1.34	1.37	1.36	1.29
Wyo.	1.68	1.62	1.55	1.50	1.47	1.40	1.43	1.49	1.58	1.60	1.62	1.61	1.55
Colo.	1.71	1.69	1.63	1.59	1.52	1.51	1.52	1.56	1.62	1.72	1.71	1.68	1.62
N. Mex.	1.63	1.60	1.48	1.44	1.38	1.36	1.44	1.47	1.58	1.61	1.59	1.60	1.52
Ariz.	1.40	1.42	1.38	1.34	1.33	1.33	1.43	1.41	1.48	1.50	1.51	1.54	1.42
Utah.....	1.47	1.44	1.42	1.37	1.34	1.32	1.33	1.37	1.47	1.50	1.52	1.51	1.42
Nev.	1.62	1.56	1.51	1.45	1.41	1.41	1.45	1.45	1.52	1.56	1.61	1.61	1.51
Wash.	1.32	1.30	1.28	1.25	1.21	1.21	1.23	1.24	1.32	1.33	1.39	1.39	1.29
Oreg.	1.48	1.42	1.40	1.32	1.27	1.30	1.30	1.31	1.42	1.48	1.53	1.52	1.40
Calif.	1.41	1.39	1.34	1.31	1.29	1.28	1.26	1.27	1.35	1.37	1.41	1.41	1.34
West.	1.43	1.41	1.37	1.33	1.29	1.29	1.28	1.31	1.39	1.44	1.47	1.49	1.38
U. S.	1.42	1.39	1.35	1.31	1.26	1.25	1.30	1.35	1.43	1.50	1.51	1.47	1.38

1/ See footnote on page 14.

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Table 14.-Milkfat-feed price ratios, selected regions by months, 1964 and 1965 1/

Region	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
	1964												
E. N. Cent. . .	19.7	20.0	20.1	20.2	20.1	19.9	19.8	19.9	20.1	20.4	20.6	20.4	20.1
W. N. Cent. . .	24.8	24.9	24.8	24.8	24.6	24.6	24.7	25.0	25.2	25.3	25.6	25.0	24.9
S. Cent.	16.6	16.7	16.8	16.8	16.6	16.5	16.5	16.8	17.2	17.5	17.8	17.7	17.0
West.	18.2	18.2	18.2	18.1	18.0	18.1	18.0	18.2	18.3	18.7	18.8	19.0	18.3
U. S.	23.7	23.8	23.7	23.7	23.5	23.6	23.6	23.8	24.1	24.2	24.5	24.1	23.9
	1965 2/												
E. N. Cent. . .	19.9	19.8	19.7	19.9	19.9	19.8	19.6	19.9	20.2	20.4	20.7	20.8	20.0
W. N. Cent. . .	24.1	23.7	23.6	23.5	23.3	23.1	23.5	24.0	24.2	24.8	25.7	25.4	24.1
S. Cent.	16.8	16.7	16.9	16.7	16.8	16.9	16.8	17.0	17.5	18.0	18.0	18.1	17.2
West.	18.4	18.3	18.3	18.3	18.3	18.0	18.1	18.4	18.7	18.7	18.9	18.9	18.4
U. S.	23.1	22.7	22.7	22.6	22.5	22.3	22.5	23.0	23.2	23.8	24.5	24.3	23.1

1/ Pounds of concentrate ration equal in value to 1 pound of milkfat. Obtained by dividing the price per pound received by farmers for milkfat in cream by the value per pound of concentrate rations fed to milk cows. The ration value used for the United States is the average for the cream-selling areas. 2/ Preliminary.

Footnotes for Tables 10 and 11:

1/ Estimates of ration values are based on quarterly reports from dairy correspondents on value per 100 pounds of concentrate ration actually being fed, with intervening months interpolated on basis of monthly reports in a few States, and changes in prices of feeds usually included in the ration. 2/ Average ration values for milk-selling areas are obtained by combining regional values in proportion to the quantity of whole milk sold by farmers to plants and dealers. For cream areas, regional weights are based on the quantity of milk separated on farms for sale as cream.