

MILK PRODUCTION

May 12, 1965

Special in this issue
CONCENTRATE RATIONS FED
TO MILK COWS 1964, page 7

SUMMARY

April milk production in the United States is estimated at 11,416 million pounds, slightly above the previous record high for the month set a year earlier. Average daily production increased 6 percent from March to April, about the same seasonal advance as in 1964. Milk production during April amounted to 1.96 pounds per person daily, compared with 1.98 pounds a year earlier. Milk output per cow averaged 724 pounds - 3 percent more than the 705 pounds produced in April last year and 13 percent above the 1959-63 average for the month.

During April, prospects for 1965 pasture feed improved, but spring growth still lags because of unusually cool weather. May 1 reported condition of dairy pastures averaged 81 percent of normal for the United States, up 8 percentage points from April 1 and compares with 85 percent a year ago and 83 percent, the 5-year average for the date.

Table 1.-Milk per cow and milk production by months, United States, 1965, with comparisons

Month	Milk per cow			Milk production			
	Average 1959-63	1964	1965	Average 1959-63	1964	1965	Change from 1964
	Pounds	Pounds	Pounds	Million Pounds	Million Pounds	Million Pounds	Percent
January.....	569	625	652	9,937	10,148	10,342	+1.9
February.....	543	613	618	9,474	9,937	9,796	-1.4
March.....	622	686	706	10,832	11,099	11,155	+0.5
April.....	641	705	724	11,125	11,383	11,416	+0.3
May.....	710	767		12,314	12,356		
June.....	685	735		11,857	11,820		
July.....	629	678		10,869	10,874		
August.....	586	639		10,107	10,235		
September.....	552	603		9,490	9,636		
October.....	555	608		9,536	9,700		
November.....	532	591		9,121	9,419		
December.....	564	628		9,651	9,991		
Annual.....	7,192	7,880		124,313	126,598		

Table 2.-Monthly milk per cow and milk production,
April 1965, with comparisons

State	Monthly milk per cow ^{1/}			Milk production			
	April av. 1959-63 ^{2/}	April 1964	April 1965	April av. 1959-63 ^{2/}	April 1964	April 1965	Change from 1964
	Pounds	Pounds	Pounds	Million pounds	Million pounds	Million pounds	Percent
Maine.....	-	760	760	-	67	64	- 4
New Hampshire.....	-	740	750	-	33	33	0
Vermont.....	-	745	785	-	180	185	+ 3
Massachusetts.....	-	845	885	-	70	71	+ 1
Rhode Island.....	-	810	860	-	9.2	9.1	- 1
Connecticut.....	-	810	860	-	60	63	+ 5
New York.....	769	837	879	958	1,004	1,042	+ 4
New Jersey.....	811	875	900	102	99	98	- 1
Pennsylvania.....	702	770	785	615	634	630	- 1
Ohio.....	670	767	775	448	464	446	- 4
Indiana.....	648	740	750	274	288	283	- 2
Illinois.....	665	770	780	371	373	355	- 5
Michigan.....	717	800	790	458	497	488	- 2
Wisconsin.....	784	845	865	1,680	1,787	1,829	+ 2
Minnesota.....	804	860	870	1,023	1,088	1,101	+ 1
Iowa.....	623	710	690	524	555	529	- 5
Missouri.....	499	530	535	325	306	297	- 3
North Dakota.....	578	630	620	158	155	146	- 6
South Dakota.....	513	540	570	126	126	133	+ 6
Nebraska.....	562	605	600	178	169	163	- 4
Kansas.....	518	565	560	170	162	155	- 4
Delaware.....	-	710	710	-	16.3	15.6	- 4
Maryland.....	588	610	610	128	127	124	- 2
Virginia.....	485	520	535	159	153	151	- 1
West Virginia.....	422	435	458	53	47	48	+ 2
North Carolina.....	495	540	580	132	132	136	+ 3
South Carolina.....	443	480	495	48	45	44	- 2
Georgia.....	419	455	500	89	83	86	+ 4
Florida.....	603	670	670	113	119	119	0
Kentucky.....	437	495	520	218	228	230	+ 1
Tennessee.....	396	410	435	194	189	197	+ 4
Alabama.....	349	370	405	83	77	80	+ 4
Mississippi.....	316	350	380	111	100	103	+ 3
Arkansas.....	358	400	430	77	71	71	0
Louisiana.....	-	395	425	-	84	88	+ 5
Oklahoma.....	519	570	580	128	115	111	- 3
Texas.....	470	545	580	265	270	270	0
Montana.....	488	495	490	38	34	33	- 3
Idaho.....	720	710	740	143	132	134	+ 2
Wyoming.....	519	545	560	15.2	14.5	14.6	+ 1
Colorado.....	614	675	685	74	72	75	+ 4
New Mexico.....	-	600	615	-	24	25	+ 4
Arizona.....	-	885	925	-	46	49	+ 7
Utah.....	710	720	750	67	62	64	+ 3
Nevada.....	649	750	830	9.9	10.5	11.8	+12
Washington.....	748	780	770	174	168	166	- 1
Oregon.....	673	695	720	106	96	97	+ 1
California.....	873	922	940	711	729	739	+ 1
Alaska.....	-	695	730	-	1.81	1.68	- 7
Hawaii.....	-	800	850	-	11.0	12.5	+14
United States.....	641	705	724	11,125	11,383	11,416	+ 0.3

^{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.

Milk production continues slightly above a year earlier

April milk production in the United States is estimated at 11,416 million pounds, slightly above the previous record high for the month set a year earlier. Average daily production increased 6 percent from March to April, about the same seasonal advance as in 1964. Milk production in April amounted to 1.96 pounds per person daily, compared with 1.98 pounds a year earlier. For the first 4 months of 1965, average daily milk production was 1 percent above the corresponding period last year.

Milk production was above a year earlier in 3 of the 10 leading States - Wisconsin, Minnesota, and New York. Record high production for the month occurred in these and in 11 other States. Milk production was less than a year earlier in 21 States, but was unchanged in 4.

Milk output per cow up 3 percent

Milk production per cow during April averaged 724 pounds, 3 percent more than the 705 pounds produced during April 1964. The 1959-63 average for April is 641 pounds. Production per cow was at record high levels in 42 States. Seasonally, the April daily rate of 24.1 pounds per cow was up 6 percent from March, about the same change as occurred a year earlier.

With an average output per cow of 940 pounds, California led all States, followed by Arizona with 925 pounds and New Jersey with 900 pounds.

Milk-feed price ratio 2 percent higher than year earlier

The April milk-feed price ratio averaged 1.32 compared with 1.38 for March and 1.30 for April 1964. Increases in wholesale milk prices resulted in a more favorable milk-feed price ratio than a year earlier, although the ration value was up 1 percent. In cream-selling areas, the milkfat-feed price ratio averaged 22.6 during April. This is unchanged from March and compares with 23.3 for April last year. The lower milkfat-feed ratio resulted from a higher ration value than a year earlier.

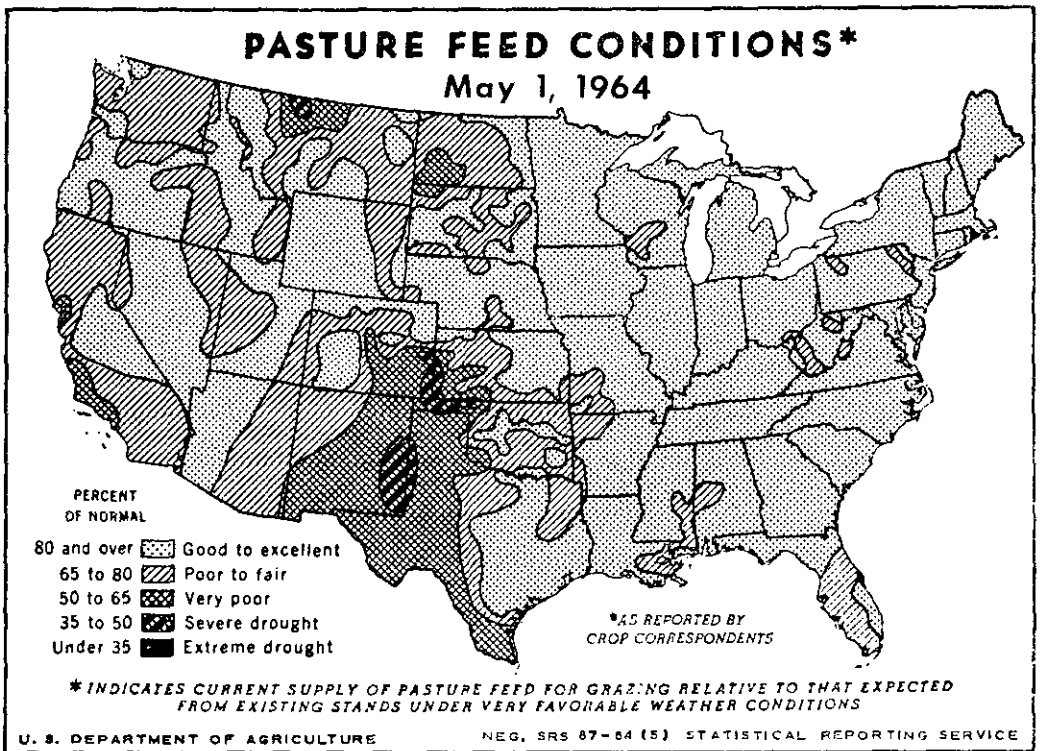
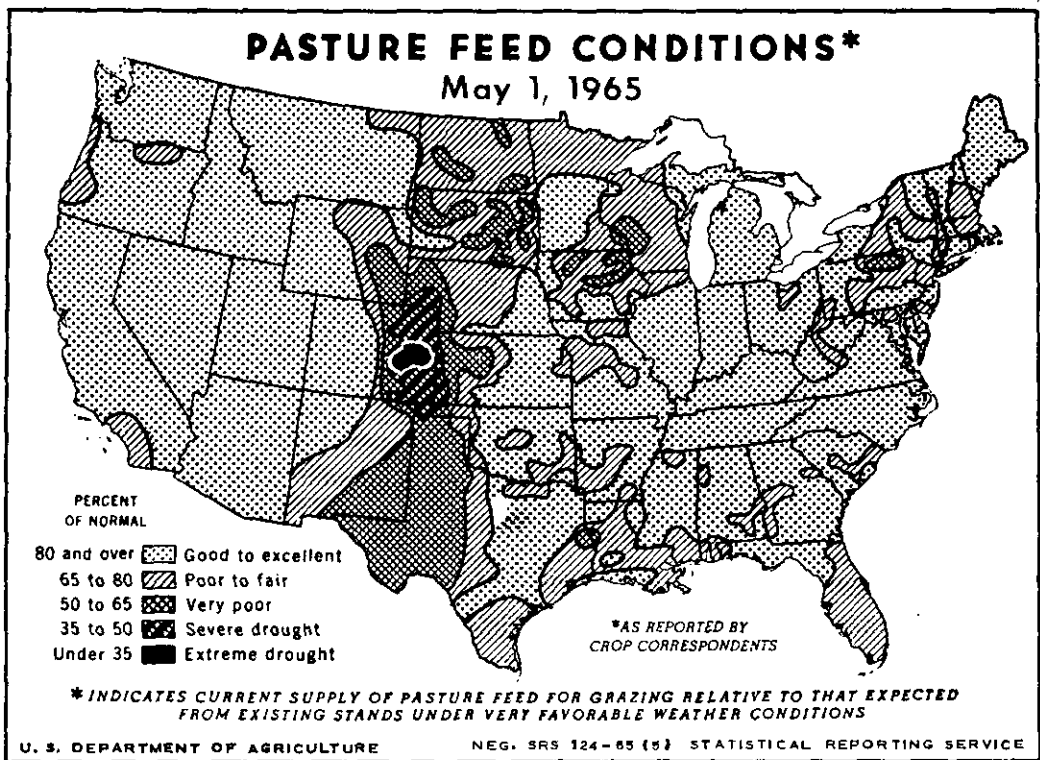
Pasture growth slow to May 1 - prospects improved by April rains

Prospects for 1965 pasture feed improved considerably during April but spring growth is still behind usual because of unusually cool weather. Reported condition of dairy pastures on May 1 for the United States averaged 81 percent of normal, up 8 points from April 1. The May 1 average compares with 85 percent for dairy pastures a year ago and the 1959-63 average for the date is 83 percent.

In the North Atlantic States, temperatures continued below normal through most of April and pastures made little growth until late in the month. April rains helped restore soil moisture after the 1964 drought, but ample rainfall will be needed in May to revive pastures grazed very short last fall. In each of the North Atlantic States, May 1 pasture condition was reported below both a year earlier and the 5-year average.

In the North Central States, below normal temperatures in March and most of April delayed pasture growth and "turn-out" dates are expected to be later than

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usual. Limited grazing was available in late April in some of these States but pastures were still dormant on May 1 in northern areas. The relatively low May 1 condition reported for most North Central States reflects late development for this date. With adequate soil moisture, prospects are favorable for good response to warmer weather in most of this region. However, spring precipitation has been light in western Nebraska and Kansas, where drought conditions have persisted for the last two seasons.

Pastures in most of the South responded well to frequent showers during April. May 1 condition was reported several points above average for the date in all southern States except Texas, where it was equal to the average. In western Texas, spring rainfall has been much below normal and growth of range grass has been slow after damage by severe drought in 1964. At the end of April, rain was needed to continue pasture growth in the Gulf States and most of Florida. Virginia pastures have made good recovery from drought damage in 1963 and 1964.

Pasture condition was better than usual on May 1 in most of the West. An important exception is a large area extending from southeastern Wyoming southward across eastern Colorado and southeastern New Mexico. In most of this area, there has been little improvement in the drought situation which has prevailed for more than two years. Above-normal spring rainfall stimulated unusually good pasture feed in California and Arizona.

Table 3.-Dairy pasture feed condition, as percentage of normal, May 1, 1965, with comparisons ^{1/}

State and division	May 1, av. 1959-63	May 1, 1964	May 1, 1965	State and division	May 1, av. 1959-63	May 1, 1964	May 1, 1965
	Percent	Percent	Percent		Percent	Percent	Percent
Me.	90	89	83	N. C.	84	89	90
N. H.	88	90	76	S. C.	80	86	87
Vt.	90	88	80	Ga.	81	86	87
Mass.	88	92	78	Fla.	74	78	79
R. I.	86	89	80	S. Atl. ..	80	87	87
Conn.	89	91	79	Ky.	80	88	90
N. Y.	86	88	80	Tenn.	82	89	89
N. J.	80	88	76	Ala.	79	84	87
Pa.	83	86	77	Miss.	78	84	83
N. Atl.	85	88	78	Ark.	79	82	83
Ohio.....	85	89	85	La.	75	86	78
Ind.	88	90	88	Okla.	81	71	84
Ill.	88	89	85	Tex.	74	73	74
Mich.	91	93	87	S. Cent. .	78	80	83
Wis.	86	86	67	Mont.	77	77	86
E. N. Cent. .	87	89	81	Idaho.....	87	79	91
Minn.	83	88	79	Wyo.	80	83	79
Iowa.....	88	88	77	Colo.	79	75	63
Mo.	81	84	81	N. Mex.	76	53	57
N. Dak.	66	74	71	Ariz.	85	79	90
S. Dak.	73	82	70	Utah.....	83	80	89
Nebr.	85	86	71	Nev.	77	79	91
Kans.	83	78	79	Wash.	87	79	86
W. N. Cent. .	83	85	77	Oreg.	88	81	84
Del.	83	90	90	Calif.	78	73	89
Md.	82	89	85	West.	82	76	85
Va.	79	89	91	U. S.	83	85	81
W. Va.	76	83	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.

Table 4.-Average milk price received by farmers and value of concentrate ration fed to milk cows, by regions, April 1965, with comparisons

Region	Milk price per 100 pounds				Ration value per 100 pounds			
	Apr. av. 1959-63	Apr. 1964	Mar. 1965	Apr. 1965	Apr. av. 1959-63	Apr. 1964	Mar. 1965	Apr. 1965
	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.
N. Atl.	4.30	4.26	4.59	4.30	3.58	3.58	3.57	3.59
E. N. Cent. ..	3.56	3.58	3.78	3.69	2.69	2.78	2.83	2.85
W. N. Cent. ..	3.29	3.34	3.47	3.42	2.33	2.46	2.52	2.54
S. Atl.	5.28	5.32	5.59	5.42	3.33	3.44	3.39	3.39
S. Cent.	4.37	4.40	4.76	4.48	3.08	3.16	3.13	3.12
West.	4.20	4.27	4.36	4.29	3.15	3.20	3.17	3.18
U. S.								
Milk areas....	3.94	3.95	4.17	4.02	2.96	3.03	3.03	3.05
Cream areas...	-	-	-	-	2.45	2.53	2.59	2.61
Milk and cream areas.....	-	-	-	-	2.93	3.01	3.02	3.03

Table 5.-Milk-feed and milkfat-feed price ratio, by regions, April 1965, with comparisons

Region	Milk-feed ratio 1/				Milkfat-feed ratio 2/			
	Apr. av. 1959-63	Apr. 1964	Mar. 1965	Apr. 1965	Apr. av. 1959-63	Apr. 1964	Mar. 1965	Apr. 1965
N. Atl.	1.20	1.19	1.29	1.20	-	-	-	-
E. N. Cent. ..	1.32	1.29	1.34	1.29	20.7	19.8	19.6	19.7
W. N. Cent. ..	1.42	1.36	1.38	1.35	26.4	24.3	23.6	23.5
S. Atl.	1.59	1.55	1.65	1.60	-	-	-	-
S. Cent.	1.42	1.39	1.52	1.44	16.7	16.4	16.5	16.5
West.	1.33	1.33	1.38	1.35	18.7	18.1	18.2	18.2
U. S.	1.33	1.30	1.38	1.32	24.6	23.3	22.6	22.6

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, 1964

Milk cows in the United States were fed 22.5 million tons of grain and concentrates during 1964. Nearly 98 percent of the grain and concentrates fed during 1964 was on farms selling milk or cream; the remaining 2 percent was fed on farms where milk was produced for home use only. About one-half of the national total of grain and concentrates fed to milk cows was fed in the North Central States. Wisconsin and Minnesota together accounted for about one-fifth of the national total.

Florida led in grain and concentrates fed per cow

Nationally, milk cows received an average of 2,800 pounds of grain and concentrates per cow during 1964, up 6 percent from 1963. Florida led all States in amount of grain and concentrates fed per cow with 5,130 pounds. The high feeding rate in Florida results from heavy use of citrus pulp. Other States with feeding rates of 3,400 pounds or more were New Jersey, Massachusetts, Connecticut, Rhode Island, and Ohio.

Ratio of grains and concentrates to milk up 2 percent

Grain and concentrates fed on farms where milk or cream was sold averaged 35.9 pounds per hundred pounds of milk produced during 1964. This was 2 percent more than the 35.1 pounds fed in 1963. Seasonally, the ratio peaked in December with 40 pounds, and the seasonal low was in June at 29 pounds. Regionally, grain fed per hundred pounds of milk ranged from 27 pounds in the Western to 46 pounds in the South Central. By States, grain fed per hundred pounds of milk produced ranged from 23 pounds in Nevada to 68 pounds in Florida.

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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, 1958-62 average, 1963 and 1964 ^{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 1958-62	1963	1964	Average 1958-62	1963	1964	Average 1958-62	1963	1964
	Lb.	Lb.	Lb.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.
Jan.	37	39	39	2.89	3.02	3.04	1.07	1.18	1.19
Feb.	36	39	38	2.90	3.03	3.03	1.04	1.18	1.15
Mar.	36	38	37	2.90	3.03	3.02	1.04	1.15	1.12
Apr.	35	36	36	2.90	3.00	3.01	1.02	1.08	1.08
May.....	30	33	33	2.90	2.99	3.02	.87	.99	1.00
June.....	25	28	29	2.91	3.00	3.01	.73	.84	.87
July.....	27	31	32	2.92	3.01	3.01	.79	.93	.96
Aug.	30	33	35	2.91	3.02	3.00	.87	1.00	1.05
Sept.	32	34	37	2.89	3.03	3.01	.92	1.03	1.11
Oct.	34	36	38	2.85	3.02	2.99	.97	1.09	1.14
Nov.	36	38	39	2.85	3.00	2.98	1.03	1.14	1.16
Dec.	37	39	40	2.89	3.02	3.00	1.07	1.18	1.20
Year av. ..	32.5	35.1	35.9	2.89	3.01	3.01	.94	1.06	1.08

^{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, 1964

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.	35	3,180	132	1,880	4	3,130	136
N. H.	34	2,890	62	1,780	1	2,860	63
Vt.	35	2,940	352	1,730	1	2,940	353
Mass.	36	3,530	144	1,870	1	3,510	145
R. I.	36	3,410	19	1,810	-	3,420	19
Conn.	36	3,480	127	1,930	1	3,460	128
N. Y.	34	3,100	1,846	1,720	6	3,090	1,852
N. J.	37	3,630	202	1,850	1	3,620	203
Pa.	39	3,370	1,361	1,840	11	3,350	1,372
N. Atl.	35.8	3,215	4,245	1,857	26	3,200	4,271
Ohio.....	38	3,440	1,005	2,010	15	3,400	1,020
Ind.	38	3,360	629	1,990	12	3,320	641
Ill.	35	3,060	710	1,770	12	3,020	722
Mich.	35	3,270	997	1,890	10	3,250	1,007
Wis.	31	2,770	2,921	1,540	4	2,770	2,925
E. N. Cent. ..	33.7	3,024	6,262	1,877	53	3,009	6,315
Minn.	34	2,950	1,857	1,850	5	2,940	1,862
Iowa.....	36	2,870	1,091	1,840	18	2,840	1,109
Mo.	40	2,440	663	1,560	23	2,390	686
N. Dak.	34	2,320	277	1,450	3	2,300	280
S. Dak.	34	2,120	239	1,350	5	2,090	244
Nebr.	34	2,260	305	1,460	6	2,240	311
Kans.	35	2,300	313	1,460	10	2,260	323
W. N. Cent. ..	35.3	2,659	4,745	1,591	70	2,633	4,815
Del.	39	3,050	34	1,650	1	3,000	35
Md.	40	3,040	306	1,580	5	3,000	311
Va.	38	2,530	337	1,400	18	2,430	355
W. Va.	35	1,910	92	1,120	6	1,820	98
N. C.	41	2,740	292	1,600	23	2,600	315
S. C.	46	2,670	105	1,560	11	2,510	116
Ga.	48	2,670	203	1,510	22	2,490	225
Fla.	68	5,210	453	1,760	3	5,130	456
S. Atl.	45.2	3,027	1,822	1,483	89	2,887	1,911
Ky.	41	2,460	503	1,380	31	2,350	534
Tenn.	44	2,180	446	1,270	32	2,080	478
Ala.	51	2,400	199	1,430	28	2,210	227
Miss.	51	2,150	259	1,280	27	2,020	286
Ark.	50	2,420	187	1,440	15	2,300	202
La.	49	2,340	210	1,320	21	2,180	231
Okla.	48	3,250	291	1,880	19	3,120	310
Tex.	47	3,020	649	1,710	51	2,860	700
S. Cent.	46.3	2,532	2,744	1,448	224	2,396	2,968
Mont.	28	1,740	55	1,020	2	1,690	57
Idaho.....	24	1,980	178	1,090	2	1,950	180
Wyo.	24	1,700	20	950	1	1,650	21
Colo.	31	2,450	125	1,470	4	2,400	129
N. Mex.	32	2,310	44	1,260	2	2,280	46
Ariz.	28	2,890	72	1,390	2	2,830	74
Utah.....	27	2,320	95	1,280	3	2,270	98
Nev.	23	2,110	14	1,060	1	2,030	15
Wash.	28	2,650	270	1,420	9	2,580	279
Oreg.	27	2,010	130	1,140	4	1,960	134
Calif.	27	2,930	1,144	1,520	7	2,910	1,151
West.	27.1	2,578	2,147	1,304	37	2,537	2,184
U. S.	35.9	2,855	21,965	1,516*	499	2,800	22,464

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Corn ranks first as feed ingredient

Corn represented 38 percent of the total grain and concentrates fed to milk cows during 1964 -- the largest single ingredient. Oats accounted for 15 percent of the ration while barley, sorghum, wheat bran, and soybeans or soybean meal, each represented about 2 percent. Commercial mixed feeds made up about one-third of the total concentrate ration. Wheat, cottonseed meal, cotton seed, dried beet pulp, and dried citrus pulp each accounted for less than 1 percent of the ration.

Corn represented more than one-half of the concentrate ration fed to milk cows in the North Central Regions and nearly one-third of the ration in South Atlantic and Central Regions. Oats contributed more than one-fifth of the ration in the North Central Regions. Sorghum grain was an important feed source for dairy rations in Nebraska, Kansas, Oklahoma, Texas, and New Mexico, while barley was important in Montana, Idaho, Wyoming, Utah, and Nevada. Commercial mixed feeds represented about two-thirds of the ration in the Western and North Atlantic Regions, and more than 40 percent in the South Atlantic and South Central Regions.

Home-grown grains represent 45 percent of dairy ration

Of the total concentrate ration fed to milk cows during 1964, home-grown grains represented 45 percent, about the same percentage as in 1963. About 78 percent of the corn in the dairy ration was home grown while 86 percent of the oats used were produced on the farm where fed. Of the barley in the dairy ration, 55 percent was home grown. In the North Central Region about 70 percent of the grain and concentrates used in the dairy ration was home grown, while in the West only 9 percent of the grains and concentrates was home grown.

Value of concentrate ration unchanged

The value of grain and concentrates fed to milk cows averaged \$3.01 per hundred pounds in 1964, unchanged from a year earlier. During 1964, the value ranged from \$2.46 per hundredweight in the West North Central Region to \$3.58 in the North Atlantic. By States, values ranged from \$1.66 in North Dakota to \$3.90 in Connecticut.

Milk-feed price ratio slightly higher in 1964

The milk-feed price ratio averaged 1.38 in 1964, about 1 percent more favorable to producers than the annual average of 1.36 in 1963. The ratio was slightly above a year earlier for all months of 1964 except May, which was unchanged. All regions shared in the increase in the annual ratio from 1963, with the largest increase - 3 percent - in the South Central Region. By States, the 1964 milk-feed price ratios ranged from 1.21 in New York to 2.04 in Florida. In areas producing farm-separated cream, the milkfat-feed price ratio averaged 23.3 in 1964, compared with 23.4 in 1963.

Table 8.-Individual feeds as percentage of the total concentrate ration fed to milk cows in herds kept by dairy reports, by States, 1964 1/

State and division	Grains					Oil seeds and oil-seed meals			Wheat bran, shorts	Dried beet pulp	Dried citrus pulp	Commercial mixed feeds	Misc. other
	Corn	Oats	Barley	Wheat	Sorghum	Cotton-seed meal	Cotton seed	Soybeans or S. B. meal					
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Me.	-	2	-	-	-	-	-	-	2	1	2	92	1
N. H.	1	-	-	-	-	-	-	-	-	4	-	95	-
Vt.	1	-	-	-	-	-	-	-	-	-	-	98	1
Mass.	2	-	-	-	-	-	-	-	-	4	5	88	1
R. I.	-	-	-	-	-	-	-	-	-	8	2	88	2
Conn.	1	1	-	-	-	-	-	-	-	8	-	83	7
N. Y.	9	11	-	-	-	-	-	1	2	-	-	70	7
N. J.	17	4	3	-	-	-	-	1	1	2	-	67	5
Pa.	35	14	2	-	-	-	-	3	2	1	-	35	8
N. Atl. ..	16.2	9.6	0.8	-	-	-	-	1.4	1.6	0.9	0.2	63.1	6.2
Ohio.....	64	17	1	1	-	-	-	4	1	-	-	11	1
Ind.	71	13	-	-	-	-	-	3	1	-	-	10	2
Ill.	70	16	-	-	-	-	-	3	1	-	-	9	1
Mich.	61	25	1	1	-	-	-	3	1	-	-	7	1
Wis.	48	33	-	-	-	-	-	2	4	1	-	9	3
E.N. Cent.	57.5	25.2	0.3	0.3	-	-	-	2.7	2.4	0.5	-	9.1	2.0
Minn.	60	26	1	-	-	-	-	3	1	1	-	7	1
Iowa.....	75	13	-	-	-	-	-	2	1	-	-	8	1
Mo.	41	4	1	-	1	2	-	3	5	-	-	42	1
N. Dak.	7	77	11	1	-	-	-	1	-	-	-	2	1
S. Dak.	50	39	4	-	1	-	-	1	-	-	-	3	2
Nebr.	53	6	2	-	20	-	-	1	2	-	-	15	1
Kans.	23	6	6	-	36	-	-	4	6	-	-	17	2
W.N. Cent.	54.3	21.0	1.9	0.1	3.8	0.3	-	2.5	1.8	0.4	-	12.8	1.1
Del.	52	8	8	-	-	-	-	4	2	-	1	19	6
Md.	43	10	9	-	-	-	-	5	3	-	-	24	6
Va.	34	3	6	-	1	1	1	1	3	-	-	48	2
W. Va.	35	9	4	-	-	-	-	1	1	-	-	49	1
N. C.	37	5	2	-	-	3	1	3	2	-	-	46	1
S. C.	26	6	1	-	1	5	1	1	1	-	1	57	-
Ga.	22	4	1	-	-	4	2	1	1	-	3	61	1
Fla.	11	-	-	-	-	3	-	1	3	-	27	44	11
S. Atl. ..	28.9	4.4	3.5	-	0.2	2.2	0.6	2.1	2.4	-	7.1	44.1	4.5
Ky.	70	2	1	-	-	-	-	1	2	-	-	23	1
Tenn.	48	3	1	-	1	4	-	1	1	-	-	39	2
Ala.	32	3	-	-	-	6	2	2	1	-	-	49	5
Miss.	33	4	-	-	-	7	2	2	2	-	-	48	2
Ark.	17	2	-	-	1	1	-	2	6	-	-	70	1
La.	20	5	-	-	-	4	3	1	4	-	-	61	2
Okla.	6	7	8	-	30	4	1	1	8	-	-	32	3
Tex.	8	3	1	-	23	8	-	-	6	-	1	47	3
S. Cent. ..	31.3	3.4	1.4	-	8.9	4.4	0.7	1.0	3.8	-	0.2	42.6	2.3
Mont.	1	16	42	1	-	-	-	1	1	3	-	32	3
Idaho.....	4	15	27	5	-	-	-	-	3	10	-	20	16
Wyo.	1	26	43	1	-	-	-	-	-	2	-	20	7
Colo.	16	6	9	1	7	-	-	-	-	6	-	45	10
N. Mex.	7	4	5	-	30	-	-	3	5	1	-	22	23
Ariz.	2	-	10	-	11	1	-	-	-	-	-	74	2
Utah.....	1	3	50	2	1	-	-	-	3	10	-	29	1
Nev.	-	-	48	-	-	-	-	-	-	-	-	52	-
Wash.	1	3	4	-	-	-	-	-	4	3	-	81	4
Oreg.	1	4	6	2	-	-	-	-	1	2	-	83	1
Calif.	3	1	6	2	1	-	-	-	2	4	-	76	5
West.	3.3	3.6	11.3	1.8	2.0	-	-	0.1	2.1	4.4	-	65.5	5.9
U. S.	37.9	14.7	2.2	0.3	2.1	0.8	0.1	1.9	2.3	0.8	0.7	32.9	3.3

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, 1963 and 1964 1/

State and division	Total concentrate ration		Corn		Oats		Barley	
	1963	1964	1963	1964	1963	1964	1963	1964
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Me.	a/	2	-	-	-	80	-	-
N. H.	a/	a/	-	a/	-	-	-	-
Vt.	a/	a/	a/	a/	-	-	-	-
Mass.	a/	a/	-	a/	-	-	-	-
R. I.	a/	a/	-	-	-	-	-	-
Conn.	a/	a/	15	a/	-	20	-	-
N. Y.	18	16	52	66	84	93	78	-
N. J.	23	18	80	72	73	66	90	89
Pa.	44	40	75	73	85	82	92	88
N. Atl.	22.7	20.9	66.7	70.4	84.3	87.0	87.9	88.0
Ohio.	69	73	82	87	89	93	93	89
Ind.	70	74	84	88	83	87	98	-
Ill.	79	77	92	89	88	87	78	-
Mich.	77	75	84	83	91	90	68	74
Wis.	64	65	75	75	86	88	-	-
E. N. Cent.	69.0	70.3	81.2	82.0	87.2	88.7	79.9	81.6
Minn.	79	74	87	83	90	90	86	71
Iowa.	80	82	90	93	84	90	-	-
Mo.	34	35	70	69	83	90	78	85
N. Dak.	86	88	79	62	91	94	88	90
S. Dak.	72	77	73	81	76	81	71	64
Nebr.	65	62	79	77	79	67	52	69
Kans.	50	50	68	69	58	70	49	78
W. N. Cent.	69.4	69.1	84.2	83.7	86.9	89.2	76.4	79.1
Del.	51	59	88	89	83	66	73	72
Md.	44	46	70	73	70	64	79	79
Va.	40	21	67	39	72	74	90	84
W. Va.	24	27	52	51	54	46	85	63
N. C.	22	28	50	64	41	52	67	51
S. C.	30	20	73	54	73	62	-	85
Ga.	18	13	59	42	54	62	-	62
Fla.	16	5	50	42	45	-	-	-
S. Atl.	28.2	22.4	61.6	56.4	58.3	63.1	80.1	76.2
Ky.	59	57	78	78	78	81	83	83
Tenn.	41	36	68	65	73	70	67	80
Ala.	24	16	50	40	42	45	-	-
Miss.	33	27	69	71	66	37	-	-
Ark.	9	7	45	31	62	40	-	-
La.	7	7	29	23	40	38	-	-
Okla.	13	13	47	28	38	54	28	20
Tex.	5	4	29	16	19	37	38	22
S. Cent.	25.7	23.3	64.9	62.1	49.3	50.9	42.3	35.4
Mont.	27	29	-	39	55	66	36	42
Idaho.	37	36	86	75	70	74	47	49
Wyo.	34	34	-	76	52	53	50	40
Colo.	23	17	50	48	63	53	45	36
N. Mex.	10	12	55	38	2	a/	19	40
Ariz.	12	9	50	24	-	-	33	44
Utah.	28	31	30	38	69	75	57	53
Nev.	18	30	-	-	-	-	65	62
Wash.	3	3	5	12	55	51	27	35
Oreg.	7	9	-	54	65	70	47	55
Calif.	1	1	6	15	11	10	6	8
West.	8.9	8.6	26.3	32.5	49.6	55.9	32.2	36.3
U. S.	45.3	44.6	76.8	77.5	83.5	86.1	55.7	54.7

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, 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
Minn.	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
Ga.	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
Cream 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 11.-Estimated value per 100 pounds of concentrate rations fed to milk cows, by States and months, 1963 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.	4.10	4.05	3.96	3.90	3.90	3.91	3.92	3.94	3.96	3.99	4.01	4.02	3.97
N. H.	3.99	3.95	3.90	3.88	3.90	3.91	3.92	3.95	3.97	4.01	3.99	3.97	3.94
Vt.	3.89	3.93	3.88	3.84	3.81	3.79	3.77	3.81	3.86	3.90	3.89	3.88	3.85
Mass.	3.95	3.92	3.86	3.81	3.81	3.82	3.83	3.85	3.87	3.89	3.89	3.89	3.87
R. I.	3.90	3.90	3.85	3.80	3.84	3.88	3.92	3.90	3.88	3.85	3.85	3.85	3.87
Conn.	3.96	4.02	3.94	3.86	3.81	3.83	3.85	3.88	3.95	4.01	4.01	4.00	3.93
N. Y.	3.68	3.66	3.63	3.59	3.58	3.56	3.55	3.58	3.62	3.64	3.64	3.66	3.62
N. J.	3.74	3.73	3.73	3.71	3.69	3.68	3.67	3.73	3.74	3.76	3.72	3.68	3.72
Pa.	3.43	3.45	3.44	3.42	3.42	3.41	3.42	3.44	3.47	3.48	3.46	3.46	3.44
N. Atl.	3.65	3.68	3.68	3.62	3.59	3.58	3.57	3.58	3.62	3.65	3.62	3.64	3.62
Ohio.	2.80	2.85	2.85	2.84	2.84	2.87	2.90	2.93	2.93	2.86	2.83	2.87	2.86
Ind.	2.95	2.90	2.86	2.82	2.80	2.84	2.87	2.88	2.90	2.86	2.83	2.86	2.86
Ill.	2.50	2.52	2.51	2.51	2.52	2.54	2.56	2.58	2.60	2.55	2.52	2.55	2.54
Mich.	2.87	2.89	2.89	2.90	2.92	2.94	2.97	2.94	2.92	2.88	2.84	2.88	2.90
Wis.	2.75	2.76	2.77	2.75	2.73	2.75	2.76	2.77	2.78	2.78	2.78	2.79	2.76
E. N. Cent. .	2.78	2.79	2.79	2.74	2.74	2.75	2.77	2.80	2.82	2.80	2.77	2.80	2.78
Minn.	2.54	2.56	2.56	2.56	2.56	2.57	2.58	2.56	2.54	2.52	2.52	2.54	2.55
Iowa.	2.32	2.32	2.33	2.33	2.32	2.30	2.29	2.30	2.32	2.28	2.24	2.30	2.30
Mo.	2.81	2.82	2.83	2.81	2.81	2.82	2.85	2.82	2.80	2.76	2.78	2.80	2.81
N. Dak.	1.82	1.86	1.83	1.81	1.79	1.78	1.74	1.70	1.66	1.63	1.66	1.68	1.75
S. Dak.	2.10	2.10	2.08	2.08	2.07	2.07	2.07	2.04	2.02	2.00	2.02	2.04	2.06
Nebr.	2.20	2.22	2.24	2.26	2.28	2.31	2.34	2.32	2.28	2.24	2.20	2.24	2.26
Kans.	2.56	2.56	2.54	2.50	2.46	2.46	2.50	2.48	2.46	2.44	2.46	2.48	2.49
W. N. Cent. .	2.46	2.48	2.48	2.45	2.43	2.45	2.47	2.44	2.46	2.42	2.39	2.42	2.45
Del.	3.53	3.48	3.44	3.40	3.40	3.44	3.48	3.44	3.38	3.34	3.34	3.38	3.42
Md.	3.52	3.49	3.46	3.44	3.44	3.48	3.52	3.48	3.42	3.38	3.38	3.42	3.45
Va.	3.51	3.52	3.54	3.56	3.56	3.58	3.60	3.60	3.52	3.48	3.48	3.52	3.54
W. Va.	3.91	3.93	3.90	3.88	3.84	3.86	3.86	3.88	3.92	3.98	3.92	3.96	3.90
N. C.	3.53	3.52	3.51	3.50	3.50	3.52	3.54	3.58	3.54	3.48	3.42	3.40	3.50
S. C.	3.38	3.42	3.44	3.47	3.47	3.47	3.46	3.44	3.42	3.38	3.38	3.40	3.43
Ga.	3.38	3.38	3.39	3.39	3.39	3.41	3.44	3.42	3.38	3.38	3.38	3.42	3.40
Fla.	2.96	3.04	3.12	3.20	3.22	3.24	3.26	3.24	3.16	3.10	3.12	3.16	3.15
S. Atl.	3.38	3.40	3.42	3.42	3.42	3.46	3.48	3.50	3.46	3.43	3.39	3.41	3.43
Ky.	3.24	3.26	3.26	3.26	3.28	3.31	3.34	3.30	3.28	3.25	3.20	3.24	3.27
Tenn.	3.17	3.17	3.16	3.14	3.14	3.14	3.15	3.12	3.08	3.04	3.08	3.12	3.13
Ala.	3.06	3.09	3.12	3.09	3.06	3.09	3.13	3.13	3.11	3.09	3.09	3.11	3.10
Miss.	3.15	3.19	3.19	3.20	3.20	3.22	3.23	3.22	3.19	3.16	3.12	3.08	3.18
Ark.	3.12	3.15	3.18	3.14	3.09	3.11	3.12	3.14	3.14	3.14	3.15	3.16	3.14
La.	3.42	3.44	3.44	3.42	3.41	3.43	3.42	3.38	3.42	3.44	3.47	3.45	3.43
Okla.	2.97	2.97	2.95	2.93	2.91	2.93	2.95	2.93	2.91	2.90	2.90	2.92	2.93
Tex.	3.06	3.08	3.08	3.06	3.06	3.08	3.11	3.12	3.13	3.14	3.18	3.20	3.11
S. Cent.	3.14	3.16	3.17	3.15	3.13	3.16	3.17	3.18	3.18	3.17	3.18	3.18	3.16
Mont.	2.43	2.43	2.40	2.39	2.39	2.37	2.36	2.32	2.28	2.30	2.34	2.34	2.36
Idaho.	2.82	2.80	2.78	2.75	2.75	2.74	2.70	2.64	2.60	2.62	2.64	2.66	2.71
Wyo.	2.65	2.63	2.62	2.62	2.60	2.58	2.56	2.54	2.52	2.50	2.48	2.52	2.57
Colo.	2.80	2.82	2.83	2.84	2.84	2.84	2.86	2.83	2.80	2.86	2.80	2.86	2.83
N. Mex.	3.30	3.30	3.28	3.26	3.24	3.22	3.20	3.20	3.24	3.28	3.32	3.36	3.27
Ariz.	3.60	3.64	3.68	3.70	3.74	3.72	3.72	3.74	3.78	3.80	3.78	3.76	3.72
Utah.	2.96	2.98	2.96	2.94	2.94	2.94	2.94	2.94	2.90	2.86	2.88	2.92	2.93
Nev.	3.26	3.28	3.28	3.36	3.32	3.24	3.32	3.40	3.40	3.39	3.40	3.40	3.34
Wash.	3.36	3.36	3.34	3.32	3.30	3.28	3.28	3.26	3.28	3.32	3.36	3.36	3.32
Oreg.	3.26	3.26	3.28	3.24	3.20	3.24	3.20	3.15	3.16	3.16	3.18	3.22	3.21
Calif.	3.27	3.30	3.30	3.28	3.26	3.26	3.27	3.28	3.24	3.33	3.33	3.32	3.29
West.	3.19	3.20	3.17	3.14	3.16	3.18	3.20	3.18	3.16	3.20	3.22	3.24	3.19
U. S. :													
Milk areas 2/.	3.04	3.06	3.06	3.02	3.01	3.02	3.04	3.04	3.05	3.05	3.03	3.05	3.04
Cream areas 2/	2.56	2.58	2.57	2.54	2.53	2.55	2.57	2.54	2.56	2.53	2.50	2.53	2.55
All areas.	3.02	3.03	3.03	3.00	2.99	3.00	3.01	3.02	3.03	3.02	3.00	3.02	3.01

See footnotes on page 16.

Table 12.-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.	1.36	1.35	1.33	1.24	1.21	1.17	1.34	1.39	1.41	1.48	1.45	1.41	1.34
N. H.	1.43	1.40	1.39	1.31	1.26	1.26	1.44	1.50	1.52	1.57	1.55	1.50	1.43
Vt.	1.29	1.26	1.21	1.12	1.08	1.07	1.23	1.30	1.33	1.42	1.38	1.33	1.25
Mass.	1.50	1.46	1.45	1.36	1.31	1.32	1.49	1.53	1.57	1.63	1.58	1.53	1.48
R. I.	1.55	1.52	1.50	1.41	1.36	1.37	1.50	1.51	1.65	1.62	1.59	1.55	1.51
Conn.	1.49	1.44	1.43	1.30	1.26	1.27	1.51	1.54	1.58	1.62	1.58	1.54	1.46
N. Y.	1.26	1.22	1.17	1.10	1.05	1.04	1.18	1.26	1.30	1.33	1.36	1.29	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	1.32	1.27	1.19	1.14	1.14	1.27	1.34	1.38	1.44	1.43	1.39	1.30
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.	1.46	1.48	1.45	1.32	1.23	1.20	1.20	1.34	1.54	1.65	1.68	1.67	1.44
Ill.	1.56	1.54	1.50	1.43	1.37	1.36	1.36	1.43	1.48	1.58	1.65	1.62	1.49
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.	1.24	1.23	1.20	1.19	1.18	1.17	1.19	1.23	1.30	1.34	1.38	1.33	1.25
E. N. Cent.	1.37	1.35	1.33	1.29	1.25	1.23	1.25	1.29	1.37	1.44	1.47	1.45	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.....	1.53	1.47	1.44	1.42	1.36	1.32	1.40	1.45	1.52	1.57	1.64	1.57	1.47
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.	1.97	1.92	1.94	1.90	1.90	1.89	1.94	2.03	2.13	2.12	2.08	2.05	1.99
S. Dak.	1.61	1.59	1.55	1.51	1.47	1.45	1.51	1.55	1.61	1.70	1.71	1.65	1.58
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.	1.71	1.65	1.61	1.52	1.43	1.48	1.49	1.55	1.63	1.70	1.71	1.72	1.60
W. N. Cent.	1.43	1.41	1.39	1.36	1.32	1.31	1.35	1.40	1.46	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	1.04	1.06	1.14	1.28	1.41	1.47	1.46	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	1.84	1.80	1.71	1.70	1.72	1.72	1.77	1.84	1.88	1.95	1.92	1.81
Miss.	1.75	1.69	1.62	1.55	1.46	1.42	1.40	1.46	1.56	1.75	1.74	1.72	1.59
Ark.	1.57	1.54	1.44	1.36	1.30	1.32	1.34	1.39	1.48	1.64	1.69	1.70	1.48
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	1.39	1.36	1.36	1.37	1.42	1.53	1.67	1.71	1.70	1.52
Mont.	1.99	1.94	1.96	1.90	1.79	1.76	1.88	1.95	2.03	2.07	2.09	2.09	1.95
Idaho.....	1.37	1.32	1.27	1.22	1.20	1.17	1.19	1.25	1.30	1.36	1.37	1.38	1.28
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	1.29	1.28	1.25	1.21	1.21	1.23	1.25	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	1.40	1.37	1.33	1.29	1.29	1.28	1.31	1.39	1.44	1.47	1.49	1.37
U. S.	1.42	1.39	1.36	1.30	1.26	1.25	1.30	1.35	1.43	1.50	1.51	1.48	1.38

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 1964.

Table 13.—Milk-feed price ratios, by States and months, 1963 1/

State and division	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Me.	1.30	1.31	1.28	1.23	1.18	1.15	1.30	1.37	1.36	1.45	1.43	1.39	1.31
N. H.	1.37	1.37	1.33	1.26	1.22	1.19	1.35	1.42	1.42	1.50	1.49	1.46	1.36
Vt.	1.25	1.22	1.16	1.11	1.08	1.06	1.22	1.29	1.28	1.37	1.36	1.31	1.23
Mass.	1.43	1.44	1.40	1.36	1.31	1.27	1.45	1.51	1.52	1.61	1.58	1.54	1.45
R. I.	1.46	1.45	1.43	1.38	1.30	1.28	1.47	1.54	1.55	1.65	1.64	1.58	1.48
Conn.	1.43	1.39	1.37	1.32	1.29	1.27	1.52	1.56	1.54	1.58	1.58	1.52	1.45
N. Y.	1.19	1.18	1.13	1.08	1.04	1.04	1.17	1.23	1.28	1.33	1.34	1.28	1.19
N. J.	1.39	1.37	1.33	1.25	1.21	1.21	1.32	1.36	1.43	1.47	1.49	1.49	1.36
Pa.	1.39	1.37	1.33	1.25	1.21	1.21	1.29	1.34	1.40	1.46	1.48	1.45	1.35
N. Atl.	1.29	1.26	1.21	1.15	1.13	1.11	1.25	1.32	1.35	1.41	1.43	1.37	1.27
Ohio.....	1.55	1.52	1.48	1.35	1.30	1.26	1.28	1.36	1.46	1.56	1.61	1.58	1.44
Ind.	1.42	1.43	1.43	1.31	1.27	1.21	1.25	1.32	1.43	1.50	1.59	1.57	1.39
Ill.	1.52	1.50	1.47	1.41	1.37	1.31	1.34	1.38	1.43	1.50	1.57	1.55	1.45
Mich.	1.48	1.45	1.42	1.36	1.32	1.28	1.28	1.34	1.40	1.46	1.50	1.48	1.40
Wis.	1.25	1.24	1.22	1.20	1.21	1.19	1.20	1.22	1.26	1.28	1.29	1.27	1.24
E. N. Cent.	1.37	1.35	1.32	1.29	1.27	1.24	1.26	1.30	1.35	1.39	1.43	1.40	1.33
Minn.	1.26	1.24	1.23	1.22	1.22	1.20	1.22	1.25	1.30	1.32	1.31	1.30	1.26
Iowa.....	1.53	1.51	1.46	1.42	1.40	1.39	1.42	1.46	1.49	1.54	1.58	1.57	1.48
Mo.	1.43	1.40	1.31	1.23	1.20	1.20	1.21	1.29	1.36	1.48	1.51	1.52	1.34
N. Dak.	1.81	1.75	1.72	1.71	1.70	1.69	1.75	1.85	1.99	2.06	2.08	2.02	1.84
S. Dak.	1.62	1.60	1.59	1.54	1.52	1.50	1.55	1.59	1.66	1.70	1.71	1.69	1.61
Nebr.	1.82	1.73	1.70	1.53	1.47	1.43	1.50	1.55	1.71	1.76	1.86	1.79	1.65
Kans.	1.62	1.60	1.56	1.48	1.48	1.44	1.44	1.51	1.59	1.64	1.69	1.69	1.56
W. N. Cent.	1.41	1.38	1.35	1.33	1.33	1.30	1.32	1.39	1.43	1.48	1.51	1.48	1.39
Del.....	1.35	1.35	1.34	1.24	1.21	1.21	1.32	1.38	1.43	1.57	1.57	1.54	1.38
Md.	1.36	1.36	1.32	1.24	1.21	1.22	1.31	1.34	1.42	1.52	1.52	1.52	1.36
Va.	1.48	1.46	1.41	1.31	1.26	1.24	1.26	1.26	1.35	1.44	1.48	1.46	1.37
W. Va.	1.21	1.22	1.21	1.10	1.07	1.05	1.09	1.13	1.21	1.22	1.28	1.28	1.17
N. C.	1.64	1.64	1.62	1.54	1.57	1.49	1.52	1.53	1.61	1.68	1.70	1.68	1.60
S. C.	1.78	1.78	1.70	1.56	1.60	1.50	1.58	1.66	1.73	1.78	1.78	1.74	1.68
Ga.	1.80	1.80	1.77	1.71	1.76	1.69	1.70	1.71	1.78	1.82	1.83	1.80	1.76
Fla.	2.25	2.19	2.08	1.98	2.00	1.98	2.02	2.08	2.12	2.19	2.18	2.12	2.10
S. Atl.	1.65	1.64	1.59	1.50	1.49	1.45	1.49	1.51	1.58	1.65	1.68	1.67	1.58
Ky.	1.28	1.27	1.23	1.09	1.05	1.03	1.03	1.12	1.20	1.32	1.41	1.42	1.20
Tenn.	1.45	1.42	1.36	1.26	1.23	1.21	1.22	1.25	1.35	1.46	1.53	1.55	1.36
Ala.	1.93	1.88	1.84	1.80	1.81	1.80	1.77	1.79	1.83	1.88	1.93	1.90	1.85
Miss.	1.68	1.66	1.54	1.42	1.41	1.37	1.35	1.40	1.49	1.61	1.70	1.75	1.53
Ark.	1.54	1.48	1.37	1.29	1.28	1.27	1.28	1.34	1.39	1.46	1.54	1.60	1.40
La.	1.74	1.74	1.64	1.56	1.66	1.63	1.61	1.61	1.64	1.69	1.71	1.72	1.66
Okla.	1.57	1.52	1.47	1.43	1.39	1.38	1.39	1.45	1.51	1.62	1.67	1.70	1.51
Tex.	1.73	1.73	1.60	1.52	1.52	1.49	1.60	1.63	1.69	1.75	1.75	1.74	1.65
S. Cent. ...	1.59	1.56	1.47	1.37	1.35	1.32	1.35	1.38	1.46	1.56	1.62	1.65	1.47
Mont.	1.95	1.91	1.88	1.84	1.76	1.73	1.78	1.85	1.91	1.98	2.03	2.03	1.89
Idaho.....	1.26	1.25	1.22	1.22	1.18	1.17	1.19	1.23	1.29	1.32	1.34	1.37	1.25
Wyo.	1.64	1.62	1.58	1.56	1.52	1.49	1.52	1.59	1.65	1.72	1.77	1.73	1.62
Colo.	1.75	1.70	1.68	1.62	1.58	1.53	1.56	1.64	1.73	1.73	1.79	1.77	1.67
N. Mex.	1.64	1.59	1.52	1.44	1.40	1.37	1.53	1.55	1.62	1.65	1.66	1.62	1.55
Ariz.	1.46	1.40	1.36	1.31	1.30	1.26	1.32	1.31	1.36	1.37	1.42	1.40	1.36
Utah.....	1.47	1.41	1.39	1.38	1.34	1.31	1.33	1.36	1.47	1.50	1.53	1.51	1.42
Nev.	1.67	1.62	1.59	1.50	1.49	1.51	1.49	1.49	1.53	1.53	1.59	1.63	1.55
Wash.	1.31	1.28	1.27	1.25	1.20	1.20	1.23	1.26	1.31	1.31	1.32	1.32	1.27
Oreg.	1.44	1.38	1.31	1.30	1.27	1.22	1.27	1.35	1.41	1.47	1.51	1.51	1.37
Calif.	1.40	1.36	1.33	1.31	1.29	1.28	1.28	1.29	1.35	1.35	1.38	1.42	1.34
West.	1.41	1.38	1.36	1.34	1.30	1.27	1.28	1.31	1.37	1.39	1.42	1.42	1.35
U. S.	1.40	1.37	1.33	1.28	1.26	1.24	1.29	1.34	1.40	1.45	1.48	1.45	1.36

1/ See footnote on page 14.

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Table 14.-Milkfat-feed price ratios, selected regions by months, 1963 and 1964 ^{1/}

Region	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
	<u>1963</u>												
E. N. Cent. . .	20.2	20.4	20.2	20.5	20.4	20.3	20.2	20.0	19.9	20.0	20.3	20.0	20.2
W. N. Cent. . .	24.7	24.6	24.6	24.9	24.9	24.5	24.3	24.7	24.7	25.1	25.4	25.2	24.8
S. Cent.	16.7	16.6	16.5	16.4	16.4	16.3	16.2	16.4	16.5	16.6	16.4	16.4	16.4
West.	18.1	18.0	18.3	18.5	18.3	18.2	18.0	18.1	18.3	18.3	18.1	18.1	18.2
U. S.	23.3	23.2	23.3	23.5	23.4	23.1	23.0	23.3	23.3	23.6	23.9	23.6	23.4
	<u>1964 ^{2/}</u>												
E. N. Cent. . .	19.4	19.6	19.8	19.8	19.9	19.8	19.5	19.6	19.9	20.1	20.4	20.2	19.8
W. N. Cent. . .	24.2	24.4	24.3	24.3	24.1	24.1	24.1	24.4	24.5	24.8	25.0	24.5	24.4
S. Cent.	16.2	16.2	16.5	16.4	16.3	16.3	16.3	16.6	17.1	17.3	17.6	17.4	16.7
West.	18.1	18.1	18.0	18.1	17.8	17.9	18.0	18.1	18.2	18.6	18.4	18.7	18.2
U. S.	23.2	23.3	23.2	23.3	23.1	23.1	23.0	23.3	23.5	23.7	23.9	23.5	23.3

^{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.