

# MILK PRODUCTION

May 13, 1968

## April milk production 3 percent below a year earlier

U. S. milk production in April is estimated at 10,460 million pounds, 3 percent less than a year earlier and 6 percent below average. Production for the month was smallest since 1952. Daily average production for April was up 5 percent from March, compared with a seasonal increase of 6 percent a year earlier. April output provided 1.74 pounds of milk per person daily, compared with 1.65 pounds a month earlier and 1.80 pounds a year earlier.

April milk production was lower than a year earlier in most States. In the North Atlantic and North Central Regions, production was smaller except in Vermont and South Dakota, which had gains of 2 and 1 percent, respectively. In the South Atlantic and South Central Regions, production was up in Virginia and Louisiana, unchanged in North Carolina, Georgia, and Oklahoma, and down elsewhere. In the West, 5 States showed increased production, 5 showed decreases, and 1 showed no change.

## April milk output per cow up 1 percent

Milk output per cow averaged 795 pounds during April, 1 percent more than a year earlier and 12 percent above average for the month. Daily output in April averaged

Table 1.-Milk per cow and milk production by months, United States, 1968, with comparisons

Month	Milk per cow			Milk production			
	Average 1962-66	1967	1968	Average 1962-66	1967	1968	Change from 1967
	Pounds	Pounds	Pounds	Million Pounds	Million Pounds	Million Pounds	Percent
January .....	644	716	724	10,196	9,847	9,608	-2.4
February .....	611	671	699	9,636	9,203	9,249	+0.5
March .....	698	769	778	10,968	10,517	10,269	-2.4
April .....	713	788	795	11,175	10,734	10,460	-2.6
Jan.-Apr. total	-	-	-	41,975	40,301	39,586	-1.8
May .....	778	844		12,143	11,470		
June .....	750	820		11,658	11,095		
July .....	692	764		10,714	10,315		
August .....	651	722		10,047	9,709		
September .....	614	680		9,446	9,124		
October .....	623	685		9,547	9,167		
November .....	603	661		9,208	8,814		
December .....	641	699		9,759	9,299		
Annual .....	8,021	8,821		124,497	119,294		

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Table 2.-Monthly milk per cow and milk production,  
April 1968, with comparisons

State	Monthly milk per cow 1/			Milk production			
	April av. 1962-66	April 1967	April 1968	April av. 1962-66	April 1967	April 1968	Change from 1967
	Pounds	Pounds	Pounds	Million pounds	Million pounds	Million pounds	Percent
Maine.....	688	725	725	57	53	52	-2
New Hampshire.....	768	800	805	36	34	33	-3
Vermont.....	745	775	805	180	167	171	+2
Massachusetts.....	819	870	860	69	64	60	-6
Rhode Island.....	823	865	855	9.3	7.5	7.1	-5
Connecticut.....	799	850	840	61	60	57	-5
New York.....	837	890	880	1,000	956	921	-4
New Jersey.....	870	895	900	96	78	72	-8
Pennsylvania.....	776	825	790	646	615	579	-6
Ohio.....	770	825	825	454	416	395	-5
Indiana.....	751	840	840	265	234	210	-10
Illinois.....	762	830	840	352	301	283	-6
Michigan.....	778	800	805	469	402	379	-6
Wisconsin.....	825	875	880	1,736	1,695	1,690	0
Minnesota.....	851	920	940	1,060	1,015	1,003	-1
Iowa.....	718	810	810	545	504	477	-5
Missouri.....	583	695	700	299	279	270	-3
North Dakota.....	605	665	710	145	118	111	-6
South Dakota.....	610	705	730	141	149	150	+1
Nebraska.....	611	650	670	166	148	144	-3
Kansas.....	593	720	720	158	161	153	-5
Delaware.....	737	770	760	14.9	13.1	12.2	-7
Maryland.....	665	750	740	130	132	127	-4
Virginia.....	541	600	645	150	146	150	+3
West Virginia.....	451	530	540	44	39	37	-5
North Carolina.....	550	635	650	126	128	128	0
South Carolina.....	516	610	615	46	46	44	-4
Georgia.....	508	630	655	87	91	91	0
Florida.....	674	760	760	120	139	138	-1
Kentucky.....	493	580	570	221	222	212	-5
Tennessee.....	460	560	575	189	197	191	-3
Alabama.....	391	465	475	72	71	68	-4
Mississippi.....	353	440	460	100	99	96	-3
Arkansas.....	437	550	570	67	60	57	-5
Louisiana.....	399	500	525	85	95	96	+1
Oklahoma.....	600	730	755	119	117	117	0
Texas.....	564	710	725	266	274	272	-1
Montana.....	539	590	640	33	30	30	0
Idaho.....	734	810	800	132	128	121	-5
Wyoming.....	606	675	680	14.9	13.8	13.9	+1
Colorado.....	667	730	725	72	72	70	-3
New Mexico.....	610	660	685	24	25	26	+4
Arizona.....	886	950	980	45	49	51	+4
Utah.....	765	840	850	64	65	63	-3
Nevada.....	748	860	840	10.6	11.5	11.4	-1
Washington.....	804	890	890	168	174	170	-2
Oregon.....	686	755	790	94	89	91	+2
California.....	915	945	955	724	737	747	+1
Alaska.....	701	770	770	1.76	1.54	1.46	-5
Hawaii.....	789	865	810	11.4	12.2	11.3	-7
United States.....	713	788	795	11,175	10,734	10,460	-2.6

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

26.5 pounds per cow, compared with 25.1 pounds a month earlier and 26.3 pounds a year earlier. Production per cow was at record-high levels in 36 States. April output per cow was highest in Arizona with 980 pounds, followed by California, 955 pounds; Minnesota, 940 pounds; New Jersey, 900 pounds; and Washington, 890 pounds.

Pasture condition good in most dairy areas

Reported dairy pasture condition nationally averaged 86 percent of normal on May 1. This was 2 percentage points above a year earlier and was up 3 points from the 1962-66 average for the date.

Variable weather in April caused erratic temperature patterns over much of the Northern and Central Great Plains. An area extending from Minnesota, Iowa and Missouri, eastward to the Atlantic Coast, had above average temperatures through most of April. The Gulf States also had warm weather until the final week, which was cool over most of the Nation. The Far Southwest was warmer than usual in the second week but otherwise was cooler. The Northwest had cool weather throughout April.

Moderate to heavy rains in early April extended from the Central Great Plains to Virginia and southward to upper parts of the Gulf States. Showers drenched the central and western Gulf States and some parts of the Central Great Plains later in the month.

Pasture condition in most North Central States was above average for May 1. However, rains are needed in north central and northwestern North Dakota where condition was below both a year earlier and average. Western Kansas has been very dry, and the State's condition was 7 points below average.

Among the States, pasture condition was poorest in Florida, which had less than 25 percent of normal rainfall in April and generally less than 50 percent of normal in March. The reported condition for Florida--57 percent of normal--is 3 percentage points above a year ago but 15 percentage points below average and down 8 points from April 1.

All South Central States reported above average pasture condition on May 1. All but Mississippi, Arkansas and Louisiana were above a year earlier. Texas, with conditions 88 percent of normal, showed the greatest improvement--24 points above a year earlier and 15 points above average.

Eastern Colorado is very dry and much moisture is needed. May 1 condition for Colorado was 74 percent of normal--still above a year earlier but down 8 points from April 1.

The Pacific Coast States all report conditions below last month, last year and the average for the date. Western portions of Washington and Oregon report excellent pastures but in some cases they are too wet to use.

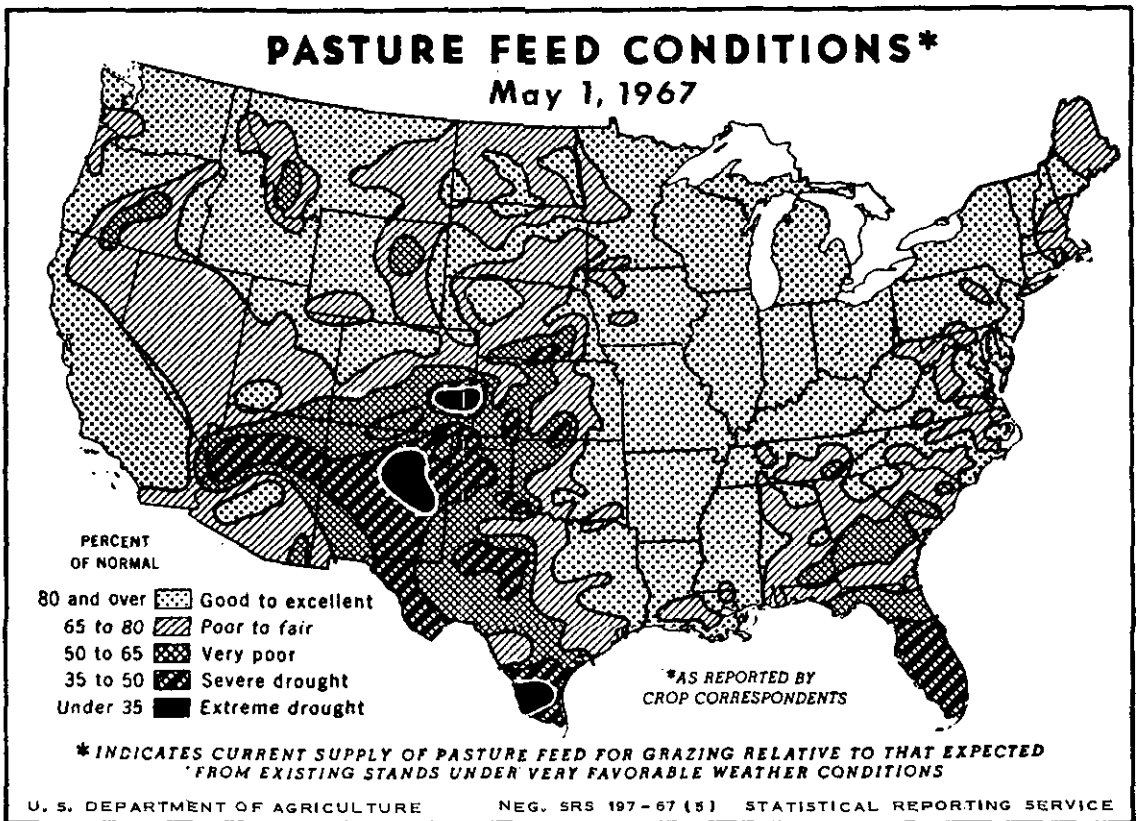
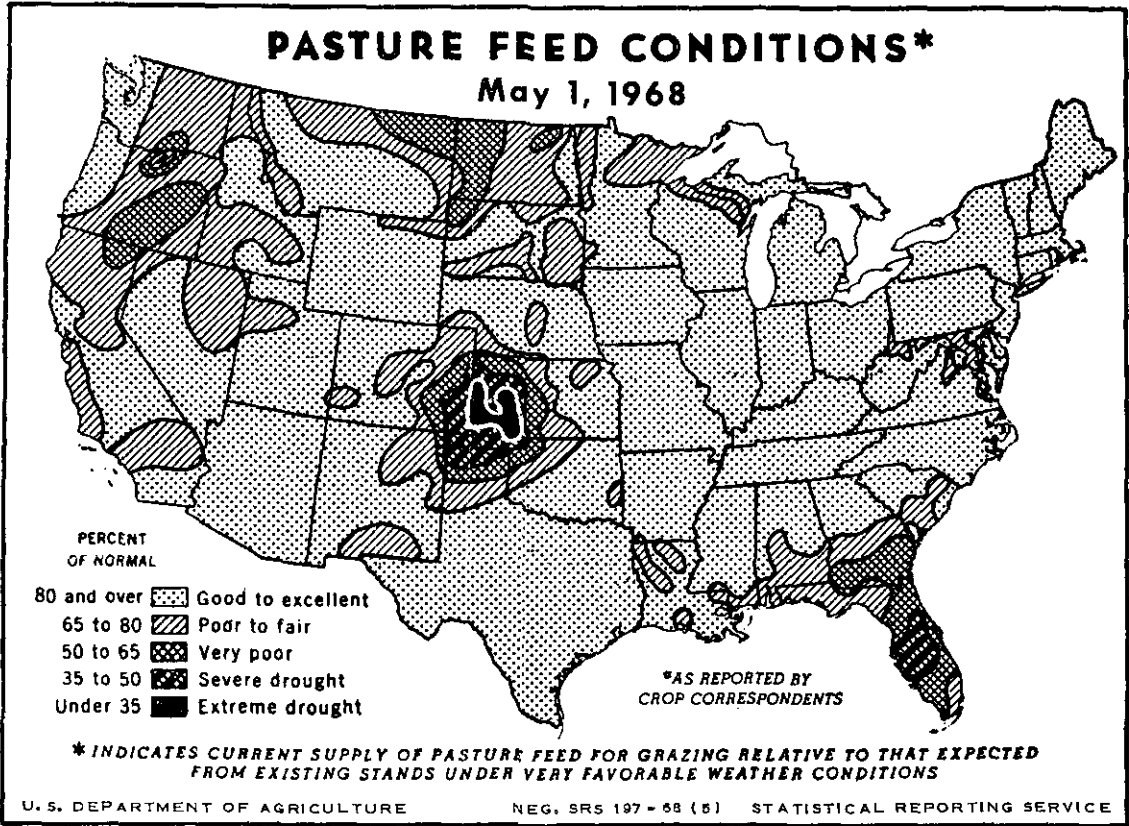


Table 3.-Dairy pasture feed conditions, as percentage of normal, May 1, 1968, with comparisons <sup>1/</sup>

State and division	May 1, av. 1962-66	May 1, 1967	May 1, 1968	State and division	May 1, av. 1962-66	May 1, 1967	May 1, 1968
	Percent	Percent	Percent		Percent	Percent	Percent
Me. ....	87	78	94	N. C. ....	84	80	90
N. H. ....	86	74	95	S. C. ....	80	73	84
Vt. ....	85	84	94	Ga. ....	82	67	79
Mass. ....	85	78	92	Fla. ....	72	54	57
R. I. ....	84	84	90	S. Atl. ..	81	77	84
Conn. ....	84	81	90	Ky. ....	82	92	93
N. Y. ....	84	88	89	Tenn. ....	82	81	90
N. J. ....	77	85	82	Ala. ....	80	74	83
Pa. ....	81	86	86	Miss. ....	78	88	85
N. Atl. ....	83	86	88	Ark. ....	79	91	89
Ohio.....	86	90	90	La. ....	76	83	83
Ind. ....	88	91	89	Okla. ....	77	73	82
Ill. ....	87	93	91	Tex. ....	73	64	88
Mich. ....	90	91	93	S. Cent. .	78	78	87
Wis. ....	84	88	88	Mont. ....	81	83	77
E. N. Cent. .	86	90	90	Idaho.....	86	86	80
Minn. ....	85	83	84	Wyo. ....	83	80	86
Iowa.....	85	89	89	Colo. ....	73	66	74
Mo. ....	80	89	90	N. Mex. ....	65	48	82
N. Dak. ....	73	78	70	Ariz. ....	86	70	93
S. Dak. ....	80	74	78	Utah.....	85	80	89
Nebr. ....	82	72	84	Nev. ....	82	72	80
Kans. ....	78	72	71	Wash. ....	86	82	81
W. N. Cent. .	82	82	83	Oreg. ....	85	84	81
Del. ....	85	87	88	Calif. ....	82	89	77
Md. ....	84	82	83	West. ....	82	82	80
Va. ....	80	81	89	U. S. ....	83	84	86
W. Va. ....	78	80	85				

<sup>1/</sup> 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.

Milk-feed price ratio 10 percent above a year earlier

The April milk-feed price ratio, at 1.61, was 10 percent above a year earlier and record high for the month. Seasonally, the ratio declined 1 percent from March to April compared with an average decrease of 4 percent. The large increase in the ratio over April 1967 was caused by higher milk prices and lower ration values. The milkfat-feed price ratio for farm-separated cream was 25.0 for April, the same as a month earlier, but 5 percent above a year earlier.

Table 4.-Average milk price received by farmers and value of concentrate ration fed to milk cows, by regions, April 1968, with comparisons

Region	Milk price per 100 pounds				Ration value per 100 pounds			
	Apr. av. 1962-66	Apr. 1967	Mar. 1968	Apr. 1968	Apr. av. 1962-66	Apr. 1967	Mar. 1968	Apr. 1968
N. Atl. ....	Dol. 4.35	Dol. 5.04	Dol. 5.47	Dol. 5.33	Dol. 3.58	Dol. 3.84	Dol. 3.62	Dol. 3.61
E. N. Cent. ..	3.71	4.56	4.83	4.80	2.78	3.06	2.93	2.91
W. N. Cent. ..	3.41	4.16	4.25	4.33	2.47	2.72	2.55	2.57
S. Atl. ....	5.33	5.99	6.39	6.23	3.38	3.68	3.48	3.47
S. Cent. ....	4.48	5.22	5.75	5.53	3.14	3.42	3.32	3.31
West. ....	4.31	4.90	5.09	5.02	3.17	3.39	3.32	3.27
U. S.								
Milk areas....	4.04	4.79	5.08	5.01	3.02	3.28	3.13	3.11
Cream areas...	-	-	-	-	2.55	2.79	2.65	2.66
Milk and cream areas.....	-	-	-	-	3.00	3.27	3.12	3.11

Table 5.-Milk-feed and milkfat-feed price ratios, by regions, April 1968, with comparisons

Region	Milk-feed ratio <sup>1/</sup>				Milkfat-feed ratio <sup>2/</sup>			
	Apr. av. 1962-66	Apr. 1967	Mar. 1968	Apr. 1968	Apr. av. 1962-66	Apr. 1967	Mar. 1968	Apr. 1968
N. Atl. ....	1.22	1.31	1.51	1.48	-	-	-	-
E. N. Cent. ..	1.33	1.49	1.65	1.65	20.3	19.2	20.3	20.2
W. N. Cent. ..	1.38	1.53	1.67	1.68	25.0	24.8	26.5	26.5
S. Atl. ....	1.58	1.63	1.84	1.80	-	-	-	-
S. Cent. ....	1.43	1.53	1.73	1.67	16.7	16.4	16.0	16.6
West. ....	1.36	1.45	1.53	1.54	18.5	19.1	19.5	19.7
U. S. ....	1.34	1.46	1.62	1.61	23.7	23.7	25.0	25.0

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

<sup>2/</sup> 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, 1967

Grain and other concentrates fed to milk cows in 1967 totaled 22.8 million tons on farms where milk was produced, both for sale and for home use. This compares with 22.7 million tons in 1966. Estimates have been discontinued for quantities fed on farms where milk was produced for home use only. Annual values of grain and other concentrates fed per 100 pounds of milk produced are shown by States for the first time (See table 7.).

Total tonnage of grain and concentrates fed to milk cows during 1967 was heaviest in the North Atlantic and the East and West North Central Regions. These Regions accounted for 67 percent of the U.S. total, with the East North Central alone accounting for 27 percent. By States, Wisconsin fed the largest quantity of grain and concentrates--3.2 million tons, or 14 percent of the U.S. total. The U.S. annual feeding rate per cow in 1967 was 3,374 pounds. Florida's rate of 5,980 pounds was highest, followed by Connecticut, Rhode Island, and Oklahoma.

More concentrates fed per 100 pounds of milk produced

Grain and concentrates fed per 100 pounds of milk produced averaged 38.3 pounds in 1967, up 2 percent from 1966. The seasonal high for this feeding ratio was 42 pounds in December and the seasonal low was 33 pounds in June.

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Table 6.--Quantity and value of grain and other concentrates fed to milk cows, United States, by months, 1966 and 1967 <sup>1/</sup>

Month	Quantity fed per 100 pounds of milk		Value per 100 pounds of feed		Feed value per 100 pounds of milk	
	1966	1967	1966	1967	1966	1967
	<u>Pounds</u>	<u>Pounds</u>	<u>Dollars</u>	<u>Dollars</u>	<u>Dollars</u>	<u>Dollars</u>
Jan. ....	40	41	3.03	3.29	1.21	1.35
Feb. ....	40	41	3.05	3.31	1.22	1.36
Mar. ....	39	40	3.04	3.29	1.19	1.32
Apr. ....	38	39	3.05	3.27	1.16	1.28
May ....	36	37	3.06	3.26	1.10	1.21
June ....	32	33	3.10	3.25	.99	1.07
July ....	34	34	3.15	3.23	1.07	1.10
Aug. ....	36	36	3.20	3.20	1.15	1.15
Sept. ....	37	38	3.24	3.17	1.20	1.20
Oct. ....	39	39	3.23	3.14	1.26	1.22
Nov. ....	41	41	3.22	3.10	1.32	1.27
Dec. ....	41	42	3.26	3.12	1.34	1.31
<b>Year av.</b>	<b>37.6</b>	<b>38.3</b>	<b>3.14</b>	<b>3.22</b>	<b>1.18</b>	<b>1.23</b>

<sup>1/</sup> Estimates for all farms where milk was produced, either for sale or for home use.

Table 7.--Quantity and value of grain and other concentrates fed to milk cows, by States, 1967 <sup>1/</sup>

State and division	Annual quantity fed to milk cows			Annual average value of feed per 100 lb.	Annual average feed value per 100 lb. of milk
	Total	Per cow	Per 100 lb. of milk		
	<u>1,000 tons</u>	<u>Pounds</u>	<u>Pounds</u>	<u>Dollars</u>	<u>Dollars</u>
Me. ....	120	3,320	38	3.99	1.52
N. H. ....	74	3,510	38	3.90	1.48
Vt. ....	342	3,160	36	3.91	1.41
Mass. ....	148	3,980	40	3.88	1.55
R. I. ....	18	4,060	41	3.92	1.61
Conn. ....	142	4,120	41	3.93	1.61
N. Y. ....	1,822	3,410	35	3.79	1.33
N. J. ....	166	3,850	38	3.85	1.46
Pa. ....	1,406	3,790	41	3.70	1.52
N. Atl. ....	4,238	3,561	37.6	3.77	1.42
Ohio ....	922	3,709	39	3.11	1.21
Ind. ....	493	3,650	39	2.96	1.15
Ill. ....	634	3,540	38	2.80	1.06
Mich. ....	891	3,600	38	3.07	1.17
Wis. ....	3,248	3,360	35	3.05	1.07
E. N. Cent. ...	6,188	3,481	36.6	3.02	1.11
Minn. ....	1,909	3,490	37	2.74	1.01
Iowa ....	1,126	3,650	40	2.53	1.01
Mo. ....	661	3,330	42	3.02	1.27
N. Dak. ....	237	2,740	38	1.94	.74
S. Dak. ....	304	2,900	38	2.39	.91
Nebr. ....	325	2,900	39	2.66	1.04
Kans. ....	340	3,080	39	2.74	1.07
W. N. Cent. ...	4,902	3,340	38.7	2.64	1.02
Del. ....	30	3,740	42	3.68	1.55
Md. ....	316	3,630	41	3.68	1.51
Va. ....	338	2,800	38	3.78	1.44
W. Va. ....	78	2,140	35	3.87	1.35
N. C. ....	305	3,050	41	3.66	1.50
S. C. ....	120	3,200	46	3.66	1.68
Ga. ....	255	3,540	49	3.67	1.80
Fla. ....	544	5,980	69	3.46	2.39
S. Atl. ....	1,986	3,594	46.6	3.63	1.69
Ky. ....	524	2,760	42	3.40	1.43
Tenn. ....	482	2,770	45	3.50	1.58
Ala. ....	199	2,650	49	3.48	1.71
Miss. ....	276	2,490	50	3.45	1.72
Ark. ....	170	3,150	49	3.36	1.65
La. ....	258	2,740	50	3.60	1.80
Okla. ....	322	4,050	49	3.15	1.54
Texas ....	739	3,850	48	3.25	1.56
S. Cent. ....	2,970	3,064	46.8	3.38	1.58
Mont. ....	56	2,270	31	2.62	.81
Idaho ....	195	2,500	27	2.85	.77
Wyo. ....	21	2,040	26	2.77	.72
Colo. ....	154	3,130	37	3.06	1.13
N. Mex. ....	49	2,590	32	3.33	1.07
Ariz. ....	86	3,380	32	3.60	1.15
Utah ....	112	2,940	30	3.00	.90
Nev. ....	21	3,080	31	3.36	1.04
Wash. ....	284	2,910	29	3.43	.99
Oreg. ....	134	2,300	28	3.57	1.00
Calif. ....	1,394	3,570	32	3.35	1.07
West. ....	2,506	3,140	31.0	3.33	1.03
U. S. ....	22,790	3,374	38.3	3.22	1.23

<sup>1/</sup> Estimates for all farms where milk was produced, either for sale or for home use.



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#### Value of concentrate ration increases

The 1967 average value of concentrate ration fed to milk cows is estimated at \$3.22 per 100 pounds. This is an increase of 8 cents from a year earlier. Seasonally, the value ranged from \$3.10 per 100 pounds in November to \$3.31 in February. The value of grain and concentrates per 100 pounds of milk produced averaged \$1.23 in 1967, compared with \$1.18 in 1966.

#### Ration ingredients

Corn, the leading ingredient, represented 37 percent of the grain and concentrates fed to milk cows in 1967. Commercial mixed feed was next with 36 percent. Commercial mixed feed includes complete feeds and supplements for increasing nutritive value of rations using home-grown grain. Corn was the most important item in dairy rations in the East and West North Central Regions; commercial mixed feed was most important in all other regions. Oats accounted for 13 percent of the U. S. ration, and about one-fifth of the ration in the North Central region. Barley and sorghum each represented about 3 percent nationally. Barley was fed primarily in the West, while sorghum was important in Kansas, Oklahoma, Texas, and New Mexico. Small quantities of soybean meal, wheat bran, and shorts were fed in all regions. Wheat, cottonseed meal, citrus pulp, and beet pulp each accounted for less than 1 percent.

#### Use of home-grown feed declines slightly

Home-grown feeds represented 40.5 percent of the total concentrate ration fed to milk cows in 1967, compared with 42.2 percent in 1966. The proportion of home-grown corn and oats decreased slightly while barley was up slightly from 1966. Home-grown grains accounted for about two-thirds of the ration in the North Central Region but considerably less in other regions where feed grain production is smaller.

#### Milk-feed price ratio higher in 1967

The milk-feed price ratio in 1967 averaged 1.56, above the average of 1.53 for 1966. The 1967 milk-feed price ratio ranged from 1.43 in June to 1.72 in November, and was at a record-high level for all months except July and August. Regionally, the annual average varied from 1.46 in the North Atlantic to 1.72 in the South Atlantic. In cream producing areas, the ~~milkfat~~-feed price ratio averaged 24.4 in 1967, compared with 25.0 in 1966.

Table 8.--Individual feeds as percentage of the total concentrate ration fed to milk cows in herds kept by dairy reporters, by States, 1967 <sup>1/</sup>

State and division	Grains					Cotton-seed meal	Soybean meal	Wheat bran, shorts	Dried beet pulp	Dried citrus pulp	Commercial mixed feed	Misc. other
	Corn	Oats	Barley	Wheat	Sorghum							
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Me. ....	1	-	-	-	-	-	-	-	1	2	96	-
N. H. ....	-	-	-	-	-	-	-	-	-	2	98	-
Vt. ....	1	1	-	-	-	-	-	-	-	3	95	-
Mass. ....	-	-	-	-	-	-	-	2	-	10	88	-
F. I. ....	-	-	-	-	-	-	-	2	7	3	88	-
Conn. ....	1	1	-	-	-	-	-	-	2	8	87	1
N. Y. ....	14	9	1	1	-	-	1	1	-	-	66	7
N. J. ....	25	2	3	-	-	-	1	1	1	-	63	4
Pa. ....	28	10	4	-	-	-	3	2	1	1	45	6
N. Atl. ....	16.4	7.4	1.9	.4	-	-	1.5	1.2	.5	1.3	64.2	5.2
Ohio ....	66	13	-	1	-	-	5	2	-	-	11	2
Ind. ....	74	10	-	-	-	-	3	-	-	-	12	1
Ill. ....	72	13	-	-	-	-	2	1	-	-	11	1
Mich. ....	68	19	1	1	-	-	3	-	-	-	7	1
Wis. ....	53	28	1	1	-	-	2	2	1	-	7	5
E. N. Cent. ....	60.7	21.5	.7	.8	-	-	2.7	1.5	.5	-	8.4	3.2
Minn. ....	58	27	-	-	-	-	2	2	1	-	9	1
Iowa ....	78	12	-	-	-	-	2	-	-	-	7	1
Mo. ....	47	3	-	1	-	-	3	3	-	-	42	1
N. Dak. ....	5	75	13	3	-	-	-	-	-	-	3	1
S. Dak. ....	45	43	3	-	1	-	1	-	-	-	6	1
Nebr. ....	63	4	-	-	13	-	1	1	-	-	16	2
Kans. ....	14	1	4	2	54	-	5	4	-	-	15	1
W. N. Cent. ....	55.0	20.3	1.1	.3	4.8	-	2.1	1.5	.4	-	13.4	1.1
Del. ....	37	5	12	-	-	-	-	-	-	-	37	9
Md. ....	39	7	15	-	-	-	5	1	-	2	26	5
Va. ....	31	5	9	-	-	1	4	1	-	-	45	4
W. Va. ....	32	6	8	-	-	-	4	2	-	-	45	3
N. C. ....	31	4	2	-	-	2	7	1	-	1	52	-
S. C. ....	35	3	1	-	-	2	3	-	-	8	43	5
Ge. ....	23	3	-	-	-	4	2	1	-	13	54	-
Fla. ....	10	-	-	-	-	3	1	2	-	18	63	3
S. Atl. ....	25.9	3.5	4.8	-	-	1.9	3.4	1.2	-	7.6	48.9	2.8
Ky. ....	62	1	2	-	-	2	6	1	-	-	25	1
Tenn. ....	31	3	-	-	-	2	1	-	-	-	61	2
Ala. ....	36	2	-	-	-	2	3	-	-	2	55	-
Miss. ....	26	3	-	-	-	5	3	1	-	-	58	4
Ark. ....	10	1	-	-	2	1	2	1	-	-	84	1
La. ....	7	1	-	-	-	2	2	2	-	-	84	2
Okla. ....	2	8	10	-	26	3	1	4	-	-	43	3
Tex. ....	5	4	-	-	30	7	-	3	-	-	49	2
S. Cent. ....	23.4	3.1	1.4	-	10.4	3.6	2.0	1.7	-	.1	52.4	1.9
Mont. ....	-	16	39	2	-	-	-	3	2	-	33	5
Idaho ....	5	11	35	5	-	-	-	2	8	-	16	18
Wyo. ....	1	15	55	3	-	-	-	-	2	-	23	1
Colo. ....	17	5	14	2	6	-	1	-	4	-	45	6
N. Mex. ....	1	1	5	-	37	-	2	3	1	-	41	9
Ariz. ....	-	-	14	-	7	-	-	1	1	-	77	-
Utah ....	2	3	45	4	-	-	-	1	14	-	30	1
Nev. ....	-	-	31	-	2	-	-	-	-	-	64	3
Wash. ....	3	4	4	-	-	-	-	2	2	-	83	2
Oreg. ....	-	5	5	2	-	-	-	-	1	-	84	3
Calif. ....	2	-	3	-	1	-	-	1	1	-	90	2
West. ....	3.0	2.5	10.2	.9	1.9	-	1	1.1	2.5	-	74.2	3.6
U. S. ....	37.0	12.6	2.5	.5	2.6	.6	2.0	1.4	.6	.9	36.3	3.0

<sup>1/</sup> 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, 1966 and 1967 1/

State and division	Total concentrate ration		Corn		Oats		Barley	
	1966	1967	1966	1967	1966	1967	1966	1967
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Me. ....	@	@	@	@	@	-	-	-
N. H. ....	@	@	@	-	@	-	-	-
Vt. ....	1	@	@	@	25	25	-	-
Mass. ....	@	@	@	-	@	-	-	-
R. I. ....	@	@	-	-	-	-	-	-
Conn. ....	@	@	10	18	@	@	-	-
N. Y. ....	18	17	61	56	91	81	82	86
N. J. ....	22	23	86	77	63	34	61	91
Pa. ....	40	30	68	62	79	67	89	87
N. Atl. ....	22.1	18.0	64.2	60.2	80.1	73.2	82.9	87.2
Ohio ....	71	64	87	78	89	88	-	-
Ind. ....	72	71	88	84	77	82	-	-
Ill. ....	74	75	89	89	87	86	-	-
Mich. ....	66	69	72	75	80	84	65	64
Wis. ....	65	63	76	72	86	83	76	72
E. N. Cent. ....	67.7	65.7	80.0	76.7	85.2	83.7	73.6	70.3
Minn. ....	78	77	88	90	89	89	81	-
Iowa ....	78	77	88	85	82	87	-	-
Mo. ....	33	33	61	66	61	56	68	-
N. Dak. ....	91	81	88	65	96	85	95	87
S. Dak. ....	66	73	74	78	77	80	61	60
Nebr. ....	62	68	79	84	60	86	50	-
Kans. ....	44	47	51	61	55	46	30	34
W. N. Cent. ....	68.5	68.2	83.1	83.9	86.4	86.0	67.3	69.0
Del. ....	42	37	68	70	82	80	58	60
Md. ....	39	38	61	59	60	48	67	69
Va. ....	23	26	45	43	61	70	82	89
W. Va. ....	20	20	46	40	48	40	76	62
N. C. ....	19	19	47	48	62	72	66	65
S. C. ....	19	21	37	52	56	65	62	85
Ga. ....	13	13	46	47	65	86	-	-
Fla. ....	3	2	25	25	-	-	-	-
S. Atl. ....	18.7	18.4	46.9	47.5	60.7	62.8	70.9	74.6
Ky. ....	37	43	57	67	53	55	91	59
Tenn. ....	23	24	60	68	67	75	-	-
Ala. ....	13	11	33	28	30	23	-	-
Miss. ....	14	17	54	61	36	35	-	-
Ark. ....	4	4	28	25	30	30	-	-
La. ....	3	2	29	18	20	20	-	-
Okla. ....	11	13	27	19	33	31	29	32
Tex. ....	5	3	23	12	21	20	-	-
S. Cent. ....	15.5	16.4	50.6	56.9	36.9	35.4	39.5	38.6
Mont. ....	28	27	35	-	54	44	39	45
Idaho ....	41	46	80	82	61	78	46	49
Wyo. ....	37	34	-	@	40	50	48	45
Colo. ....	15	15	21	46	38	42	43	23
N. Mex. ....	5	4	42	44	5	@	46	@
Ariz. ....	13	10	-	-	-	-	44	51
Utah ....	30	30	15	50	60	63	57	51
Nev. ....	16	19	-	-	-	-	78	60
Wash. ....	4	3	-	@	56	48	48	30
Oreg. ....	5	7	-	-	60	50	48	50
Calif. ....	1	1	15	18	10	-	15	6
West ....	8.4	8.5	28.7	35.1	43.2	57.6	40.5	38.7
U. S. ....	42.2	40.5	74.6	73.9	82.5	80.7	56.2	56.7

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 on milk cow rations. @ Less than .5 of 1 percent.

Table 10.-Estimated value per 100 pounds of concentrate ration fed to milk cows, by States and months, 1967 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. ....	4.16	4.16	4.12	4.04	3.96	3.94	3.92	3.88	3.86	3.88	3.96	4.00	3.99
N. H. ....	4.04	4.00	3.98	3.96	3.88	3.88	3.86	3.84	3.82	3.84	3.86	3.88	3.90
Vt. ....	4.04	4.04	4.02	4.00	3.96	3.92	3.88	3.84	3.82	3.80	3.80	3.82	3.91
Mass. ....	4.04	4.00	3.96	3.94	3.90	3.88	3.84	3.80	3.78	3.80	3.82	3.84	3.88
R. I. ....	4.04	4.02	4.00	3.98	3.96	3.92	3.88	3.84	3.84	3.86	3.86	3.86	3.92
Conn. ....	4.12	4.12	4.04	4.00	3.92	3.90	3.88	3.86	3.84	3.82	3.82	3.84	3.93
N. Y. ....	3.92	3.92	3.88	3.86	3.82	3.80	3.76	3.72	3.70	3.68	3.68	3.70	3.79
N. J. ....	4.00	3.98	3.96	3.92	3.88	3.84	3.82	3.80	3.76	3.74	3.74	3.76	3.85
Pa. ....	3.78	3.78	3.76	3.76	3.74	3.73	3.71	3.70	3.69	3.66	3.59	3.53	3.70
N. Atl. ...	3.90	3.90	3.86	3.84	3.80	3.78	3.74	3.72	3.70	3.68	3.66	3.68	3.77
Ohio ....	3.16	3.18	3.19	3.19	3.18	3.16	3.14	3.10	3.04	2.98	2.96	3.00	3.11
Ind. ....	3.08	3.12	3.08	3.04	3.02	2.98	2.96	2.90	2.86	2.82	2.80	2.86	2.96
Ill. ....	2.96	2.94	2.90	2.88	2.84	2.80	2.78	2.76	2.74	2.70	2.66	2.68	2.80
Mich. ....	3.18	3.16	3.14	3.12	3.10	3.08	3.06	3.04	3.02	3.00	2.98	2.98	3.07
Wis. ....	3.02	3.06	3.08	3.08	3.08	3.08	3.08	3.06	3.04	3.02	3.00	3.00	3.05
E. N. Cent.	3.06	3.08	3.07	3.06	3.06	3.05	3.04	3.02	3.00	2.96	2.92	2.94	3.02
Minn. ....	2.78	2.82	2.82	2.81	2.80	2.77	2.73	2.69	2.68	2.68	2.68	2.68	2.74
Iowa ....	2.66	2.64	2.62	2.60	2.58	2.56	2.54	2.50	2.46	2.42	2.36	2.40	2.53
Mo. ....	3.08	3.10	3.10	3.10	3.08	3.06	3.05	3.00	2.96	2.92	2.89	2.91	3.02
N. Dak. ....	1.96	1.96	1.96	1.94	1.94	1.94	1.94	1.94	1.93	1.92	1.92	1.96	1.94
S. Dak. ....	2.36	2.38	2.40	2.42	2.44	2.46	2.44	2.38	2.36	2.34	2.32	2.34	2.39
Nebr. ....	2.64	2.68	2.72	2.74	2.74	2.74	2.74	2.72	2.64	2.56	2.48	2.54	2.66
Kans. ....	2.75	2.76	2.77	2.78	2.80	2.82	2.82	2.78	2.72	2.66	2.60	2.64	2.74
W. N. Cent.	2.74	2.74	2.73	2.72	2.71	2.70	2.68	2.64	2.58	2.52	2.47	2.49	2.64
Del. ....	3.76	3.76	3.74	3.72	3.70	3.68	3.68	3.66	3.64	3.60	3.60	3.58	3.68
Md. ....	3.76	3.74	3.72	3.70	3.70	3.68	3.68	3.66	3.64	3.62	3.60	3.64	3.68
Va. ....	3.80	3.84	3.84	3.84	3.82	3.80	3.80	3.78	3.76	3.72	3.68	3.70	3.78
W. Va. ....	4.00	4.04	4.00	3.92	3.88	3.86	3.84	3.80	3.78	3.76	3.76	3.78	3.87
N. C. ....	3.80	3.80	3.76	3.72	3.68	3.68	3.68	3.64	3.59	3.52	3.50	3.53	3.66
S. C. ....	3.70	3.74	3.72	3.72	3.70	3.70	3.68	3.66	3.62	3.58	3.52	3.52	3.66
Ga. ....	3.76	3.80	3.78	3.76	3.72	3.68	3.66	3.64	3.60	3.58	3.52	3.54	3.67
Fla. ....	3.46	3.50	3.50	3.50	3.49	3.48	3.46	3.44	3.44	3.43	3.42	3.41	3.46
S. Atl. ...	3.72	3.74	3.72	3.68	3.64	3.63	3.62	3.60	3.58	3.57	3.55	3.55	3.63
Ky. ....	3.48	3.50	3.50	3.48	3.44	3.42	3.40	3.38	3.34	3.32	3.28	3.30	3.40
Tenn. ....	3.48	3.54	3.54	3.52	3.52	3.52	3.52	3.52	3.48	3.44	3.44	3.46	3.50
Ala. ....	3.60	3.58	3.56	3.52	3.50	3.52	3.52	3.48	3.44	3.40	3.34	3.36	3.48
Miss. ....	3.44	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.44	3.40	3.36	3.40	3.45
Ark. ....	3.40	3.40	3.40	3.40	3.38	3.38	3.38	3.36	3.32	3.31	3.30	3.28	3.36
La. ....	3.64	3.62	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60
Okla. ....	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.16	3.12	3.10	3.08	3.10	3.15
Tex. ....	3.30	3.30	3.28	3.26	3.26	3.26	3.24	3.24	3.22	3.22	3.18	3.20	3.25
S. Cent. ...	3.42	3.44	3.44	3.42	3.41	3.40	3.39	3.38	3.36	3.32	3.30	3.31	3.38
Mont. ....	2.60	2.62	2.62	2.62	2.62	2.62	2.64	2.64	2.62	2.60	2.62	2.64	2.62
Idaho ....	2.78	2.82	2.86	2.90	2.92	2.92	2.90	2.90	2.86	2.80	2.76	2.74	2.85
Wyo. ....	2.74	2.76	2.78	2.80	2.82	2.82	2.84	2.80	2.76	2.72	2.70	2.72	2.77
Colo. ....	3.02	3.06	3.10	3.14	3.16	3.18	3.18	3.16	3.08	2.92	2.84	2.86	3.06
N. Mex. ....	3.40	3.38	3.36	3.35	3.36	3.38	3.40	3.34	3.28	3.24	3.20	3.22	3.33
Ariz. ....	3.60	3.60	3.60	3.60	3.60	3.62	3.64	3.62	3.60	3.58	3.56	3.58	3.60
Utah ....	3.10	3.10	3.06	3.04	3.02	3.02	3.00	2.98	2.94	2.90	2.88	2.90	3.00
Nev. ....	3.40	3.40	3.40	3.40	3.40	3.38	3.36	3.34	3.32	3.32	3.32	3.33	3.36
Wash. ....	3.44	3.42	3.46	3.46	3.46	3.45	3.44	3.43	3.42	3.40	3.38	3.37	3.43
Oreg. ....	3.60	3.60	3.60	3.62	3.64	3.60	3.60	3.55	3.55	3.52	3.50	3.48	3.57
Calif. ....	3.40	3.44	3.44	3.40	3.37	3.34	3.33	3.30	3.30	3.30	3.30	3.30	3.35
West. ....	3.38	3.41	3.40	3.39	3.38	3.36	3.35	3.32	3.28	3.24	3.22	3.24	3.33
U. S.:													
Milk areas 2/	3.30	3.32	3.30	3.28	3.27	3.26	3.24	3.21	3.18	3.15	3.12	3.13	3.23
Cream areas 2/	2.81	2.81	2.80	2.79	2.78	2.77	2.75	2.72	2.66	2.60	2.55	2.57	2.72
All areas ...	3.29	3.31	3.29	3.27	3.26	3.25	3.23	3.20	3.17	3.14	3.10	3.12	3.22

See footnotes on page 16.

Table 11.—Estimated value per 100 pounds of concentrate ration fed to milk cows, by States and months, 1966 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. ....	3.76	3.74	3.76	3.78	3.80	3.83	3.86	3.88	3.96	4.04	4.08	4.12	3.88
N. H. ....	3.70	3.63	3.61	3.60	3.64	3.68	3.74	3.88	3.96	4.00	4.04	4.04	3.79
Vt. ....	3.74	3.73	3.73	3.73	3.73	3.75	3.77	3.84	3.88	3.96	4.02	4.04	3.83
Mass. ....	3.72	3.68	3.65	3.62	3.64	3.68	3.72	3.80	3.88	3.96	4.04	4.04	3.79
R. I. ....	3.80	3.74	3.68	3.62	3.58	3.64	3.72	3.80	3.88	3.90	3.90	3.98	3.77
Conn. ....	3.78	3.74	3.68	3.63	3.64	3.68	3.72	3.80	3.88	3.96	4.04	4.12	3.81
N. Y. ....	3.62	3.62	3.62	3.60	3.60	3.64	3.66	3.70	3.76	3.80	3.85	3.88	3.70
N. J. ....	3.64	3.67	3.67	3.68	3.70	3.75	3.79	3.83	3.88	3.93	3.96	3.98	3.79
Pa. ....	3.42	3.44	3.47	3.48	3.48	3.50	3.54	3.60	3.67	3.72	3.72	3.75	3.57
N. Atl. ....	3.58	3.58	3.58	3.58	3.56	3.60	3.64	3.68	3.74	3.80	3.83	3.86	3.67
Ohio ....	2.96	2.94	2.92	2.89	2.92	3.00	3.04	3.08	3.14	3.18	3.20	3.16	3.04
Ind. ....	2.76	2.80	2.84	2.88	2.93	2.98	3.01	3.04	3.08	3.06	3.01	3.04	2.95
Ill. ....	2.62	2.66	2.69	2.72	2.76	2.84	2.92	3.02	2.98	2.96	2.90	2.94	2.83
Mich. ....	2.88	2.92	2.96	3.00	3.02	3.04	3.06	3.08	3.12	3.16	3.12	3.16	3.04
Wis. ....	2.82	2.86	2.86	2.88	2.90	2.92	2.94	2.95	2.98	2.97	2.94	2.97	2.92
E. N. Cent.	2.84	2.89	2.86	2.88	2.90	2.94	3.00	3.06	3.08	3.02	2.98	3.04	2.96
Minn. ....	2.56	2.52	2.54	2.58	2.62	2.68	2.74	2.77	2.76	2.75	2.70	2.74	2.66
Iowa ....	2.32	2.36	2.38	2.40	2.46	2.52	2.58	2.66	2.72	2.68	2.64	2.68	2.53
Mo. ....	2.84	2.88	2.86	2.87	2.90	2.92	2.95	2.99	3.03	3.06	3.02	3.04	2.95
N. Dak. ....	1.76	1.81	1.84	1.82	1.86	1.88	1.90	1.92	1.94	1.96	1.94	1.96	1.88
S. Dak. ....	2.14	2.16	2.14	2.18	2.20	2.24	2.28	2.30	2.34	2.37	2.34	2.35	2.25
Nebr. ....	2.30	2.34	2.32	2.36	2.42	2.48	2.54	2.58	2.60	2.56	2.52	2.56	2.46
Kans. ....	2.54	2.56	2.54	2.56	2.58	2.60	2.64	2.68	2.74	2.74	2.70	2.74	2.64
W. N. Cent.	2.50	2.50	2.47	2.50	2.52	2.60	2.68	2.75	2.78	2.74	2.70	2.74	2.62
Del. ....	3.36	3.49	3.52	3.58	3.65	3.70	3.76	3.76	3.76	3.72	3.72	3.74	3.65
Md. ....	3.38	3.44	3.40	3.46	3.50	3.52	3.54	3.56	3.64	3.70	3.75	3.78	3.56
Va. ....	3.48	3.54	3.56	3.56	3.56	3.54	3.60	3.68	3.74	3.68	3.70	3.76	3.62
W. Va. ....	3.78	3.82	3.78	3.73	3.71	3.76	3.80	3.86	3.90	3.95	3.92	3.96	3.83
N. C. ....	3.46	3.48	3.48	3.47	3.47	3.52	3.58	3.66	3.72	3.66	3.68	3.72	3.58
S. C. ....	3.47	3.50	3.50	3.50	3.50	3.46	3.52	3.56	3.60	3.64	3.64	3.67	3.55
Ga. ....	3.40	3.42	3.45	3.45	3.48	3.56	3.61	3.64	3.64	3.66	3.68	3.72	3.56
Fla. ....	3.10	3.12	3.12	3.15	3.18	3.22	3.26	3.32	3.36	3.40	3.38	3.42	3.25
S. Atl. ....	3.38	3.42	3.42	3.43	3.44	3.48	3.52	3.55	3.59	3.62	3.64	3.67	3.51
Ky. ....	3.14	3.20	3.24	3.28	3.30	3.30	3.30	3.34	3.36	3.40	3.35	3.38	3.30
Tenn. ....	3.18	3.22	3.27	3.32	3.32	3.32	3.32	3.36	3.42	3.36	3.36	3.40	3.32
Ala. ....	3.16	3.24	3.27	3.24	3.24	3.27	3.35	3.44	3.48	3.52	3.52	3.56	3.36
Miss. ....	3.14	3.17	3.20	3.23	3.23	3.26	3.30	3.34	3.36	3.40	3.36	3.40	3.28
Ark. ....	3.16	3.16	3.14	3.14	3.14	3.18	3.22	3.24	3.28	3.32	3.36	3.40	3.23
La. ....	3.31	3.31	3.30	3.28	3.32	3.38	3.44	3.47	3.52	3.57	3.60	3.64	3.43
Okla. ....	2.92	2.94	2.94	2.92	2.92	2.95	3.01	3.04	3.08	3.08	3.12	3.16	3.01
Tex. ....	3.08	3.08	3.06	3.03	3.03	3.02	3.08	3.14	3.19	3.19	3.22	3.28	3.12
S. Cent. ...	3.12	3.17	3.19	3.18	3.18	3.20	3.24	3.28	3.32	3.32	3.32	3.38	3.24
Mont. ....	2.38	2.44	2.44	2.45	2.43	2.40	2.39	2.43	2.47	2.52	2.52	2.56	2.45
Idaho ....	2.66	2.66	2.67	2.70	2.74	2.78	2.83	2.83	2.80	2.76	2.71	2.75	2.74
Wyo. ....	2.60	2.58	2.60	2.62	2.62	2.62	2.64	2.66	2.68	2.70	2.70	2.72	2.64
Colo. ....	2.90	2.85	2.88	2.94	3.00	3.04	3.06	3.04	3.02	3.00	2.98	2.98	2.97
N. Mex. ....	3.28	3.30	3.30	3.30	3.34	3.36	3.38	3.38	3.34	3.36	3.36	3.38	3.34
Ariz. ....	3.72	3.78	3.74	3.70	3.68	3.66	3.62	3.59	3.59	3.58	3.58	3.59	3.65
Utah ....	2.98	3.03	2.98	3.00	3.00	3.02	3.03	3.05	3.06	3.07	3.09	3.12	3.04
Nev. ....	3.32	3.28	3.24	3.20	3.20	3.22	3.26	3.30	3.34	3.38	3.44	3.40	3.30
Wash. ....	3.40	3.37	3.38	3.39	3.40	3.37	3.40	3.42	3.44	3.48	3.50	3.50	3.42
Oreg. ....	3.44	3.47	3.46	3.41	3.41	3.46	3.49	3.52	3.55	3.57	3.55	3.57	3.49
Calif. ....	3.24	3.26	3.24	3.24	3.24	3.26	3.27	3.30	3.34	3.38	3.40	3.44	3.30
West .....	3.18	3.21	3.21	3.20	3.19	3.21	3.23	3.24	3.28	3.30	3.32	3.34	3.24
U. S.:													
Milk areas 2/.	3.04	3.07	3.06	3.07	3.07	3.11	3.17	3.21	3.25	3.24	3.23	3.28	3.15
Cream areas 2/.	2.58	2.58	2.56	2.58	2.60	2.67	2.75	2.81	2.84	2.80	2.77	2.81	2.70
All areas ....	3.03	3.05	3.04	3.05	3.06	3.10	3.15	3.20	3.24	3.23	3.22	3.26	3.14

See footnotes on page 16.

Table 12.-Milk-feed price ratios, by States and months, 1967 1/

State and division	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Me. ....	1.50	1.49	1.43	1.40	1.45	1.42	1.51	1.57	1.62	1.65	1.62	1.58	1.52
N. H. ....	1.56	1.55	1.48	1.41	1.40	1.39	1.53	1.64	1.69	1.72	1.66	1.61	1.55
Vt. ....	1.41	1.40	1.36	1.28	1.26	1.25	1.39	1.54	1.60	1.62	1.58	1.58	1.44
Mass. ....	1.52	1.52	1.52	1.42	1.42	1.39	1.54	1.68	1.73	1.74	1.69	1.64	1.57
R. I. ....	1.52	1.52	1.50	1.41	1.39	1.36	1.51	1.67	1.69	1.71	1.68	1.65	1.55
Conn. ....	1.55	1.54	1.52	1.41	1.47	1.44	1.59	1.71	1.77	1.81	1.78	1.67	1.60
N. Y. ....	1.35	1.33	1.30	1.22	1.19	1.20	1.36	1.49	1.55	1.58	1.56	1.47	1.38
N. J. ....	1.42	1.40	1.38	1.29	1.31	1.29	1.43	1.53	1.61	1.63	1.61	1.57	1.46
Pa. ....	1.51	1.48	1.48	1.42	1.43	1.43	1.51	1.55	1.60	1.64	1.69	1.67	1.53
N. Atl. ...	1.43	1.41	1.39	1.31	1.31	1.30	1.44	1.55	1.60	1.63	1.63	1.56	1.46
Ohio ....	1.75	1.74	1.72	1.61	1.59	1.55	1.59	1.71	1.86	1.94	2.00	1.95	1.75
Ind. ....	1.72	1.67	1.67	1.56	1.57	1.54	1.60	1.76	1.96	2.00	2.05	1.99	1.76
Ill. ....	1.64	1.63	1.57	1.55	1.57	1.55	1.56	1.59	1.73	1.81	1.86	1.83	1.66
Mich. ....	1.68	1.71	1.72	1.67	1.68	1.62	1.65	1.71	1.75	1.82	1.86	1.86	1.73
Wis. ....	1.49	1.43	1.40	1.38	1.39	1.37	1.37	1.39	1.45	1.50	1.53	1.51	1.43
E. N. Cent.	1.59	1.55	1.53	1.49	1.49	1.46	1.48	1.53	1.62	1.68	1.73	1.69	1.57
Minn. ....	1.50	1.46	1.45	1.45	1.45	1.46	1.47	1.52	1.56	1.58	1.57	1.58	1.50
Iowa ....	1.67	1.67	1.64	1.60	1.63	1.58	1.59	1.64	1.71	1.76	1.84	1.83	1.68
Mo. ....	1.61	1.56	1.50	1.39	1.41	1.44	1.41	1.47	1.55	1.64	1.71	1.70	1.53
N. Dak. ....	2.19	2.14	2.14	2.14	2.09	2.04	2.04	2.09	2.18	2.21	2.27	2.19	2.14
S. Dak. ....	1.82	1.76	1.75	1.71	1.68	1.61	1.64	1.72	1.78	1.82	1.85	1.84	1.75
Nebr. ....	1.76	1.72	1.64	1.51	1.51	1.50	1.53	1.58	1.76	1.86	1.96	1.83	1.68
Kans. ....	1.85	1.83	1.75	1.65	1.62	1.60	1.61	1.64	1.80	1.97	2.02	1.99	1.78
W. N. Cent.	1.61	1.58	1.56	1.53	1.54	1.53	1.53	1.59	1.69	1.76	1.81	1.79	1.63
Del. ....	1.60	1.60	1.58	1.47	1.58	1.56	1.56	1.61	1.65	1.68	1.71	1.70	1.61
Md. ....	1.60	1.60	1.60	1.47	1.54	1.54	1.52	1.56	1.63	1.67	1.74	1.69	1.60
Va. ....	1.61	1.59	1.56	1.45	1.45	1.45	1.43	1.47	1.53	1.60	1.67	1.68	1.54
W. Va. ....	1.48	1.46	1.45	1.42	1.39	1.37	1.41	1.46	1.57	1.62	1.64	1.63	1.49
N. C. ....	1.74	1.74	1.72	1.67	1.71	1.65	1.66	1.69	1.82	1.88	1.91	1.86	1.75
S. C. ....	1.82	1.76	1.69	1.68	1.73	1.68	1.71	1.73	1.85	1.93	1.96	1.92	1.79
Ga. ....	1.80	1.74	1.68	1.68	1.73	1.70	1.69	1.73	1.83	1.84	1.89	1.81	1.76
Fla. ....	2.04	1.99	1.93	1.90	1.88	1.84	1.91	1.93	2.01	2.00	2.03	2.01	1.96
S. Atl. ...	1.74	1.72	1.69	1.63	1.66	1.63	1.64	1.67	1.76	1.79	1.84	1.81	1.72
Ky. ....	1.49	1.43	1.39	1.24	1.25	1.26	1.26	1.36	1.50	1.60	1.68	1.70	1.43
Tenn. ....	1.64	1.55	1.48	1.41	1.41	1.38	1.38	1.41	1.51	1.60	1.64	1.65	1.50
Ala. ....	1.67	1.66	1.66	1.76	1.77	1.79	1.82	1.85	1.93	1.99	2.05	2.02	1.83
Miss. ....	1.82	1.77	1.68	1.57	1.59	1.57	1.57	1.61	1.72	1.81	1.85	1.78	1.70
Ark. ....	1.69	1.66	1.53	1.51	1.49	1.49	1.52	1.53	1.70	1.75	1.82	1.86	1.63
La. ....	1.83	1.82	1.74	1.69	1.78	1.76	1.76	1.78	1.89	1.89	1.90	1.79	1.80
Okla. ....	1.75	1.67	1.64	1.54	1.56	1.54	1.56	1.63	1.81	1.77	1.82	1.81	1.68
Tex. ....	1.94	1.91	1.77	1.73	1.73	1.72	1.74	1.79	1.94	1.97	2.04	2.00	1.86
S. Cent. ...	1.74	1.69	1.60	1.53	1.53	1.51	1.53	1.58	1.71	1.79	1.85	1.83	1.66
Mont. ....	1.98	1.93	1.89	1.85	1.81	1.79	1.80	1.88	1.93	2.02	2.06	2.06	1.92
Idaho ....	1.58	1.52	1.49	1.45	1.40	1.39	1.38	1.40	1.45	1.54	1.58	1.61	1.48
Wyo. ....	1.90	1.83	1.80	1.73	1.68	1.63	1.64	1.70	1.79	1.88	1.93	1.95	1.79
Colo. ....	1.97	1.90	1.77	1.74	1.71	1.68	1.68	1.76	1.87	2.00	2.10	2.08	1.86
N. Mex. ....	1.82	1.80	1.68	1.63	1.68	1.63	1.60	1.69	1.80	1.82	1.88	1.88	1.74
Ariz. ....	1.72	1.69	1.61	1.51	1.54	1.51	1.57	1.63	1.71	1.70	1.73	1.73	1.64
Utah ....	1.66	1.63	1.60	1.56	1.56	1.52	1.53	1.58	1.67	1.72	1.77	1.79	1.63
Nev. ....	1.75	1.68	1.60	1.59	1.57	1.52	1.59	1.62	1.66	1.72	1.75	1.79	1.65
Wash. ....	1.54	1.54	1.50	1.45	1.42	1.42	1.44	1.47	1.52	1.60	1.61	1.68	1.52
Oreg. ....	1.58	1.54	1.50	1.45	1.39	1.38	1.42	1.48	1.55	1.61	1.64	1.67	1.52
Calif. ....	1.49	1.46	1.42	1.43	1.39	1.40	1.39	1.42	1.45	1.49	1.51	1.59	1.45
West. ....	1.54	1.50	1.46	1.45	1.41	1.40	1.41	1.45	1.51	1.57	1.60	1.65	1.50
U. S. ....	1.57	1.53	1.51	1.46	1.45	1.43	1.48	1.55	1.64	1.69	1.72	1.69	1.56

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 1967.

Table 13.-Milk-feed price ratios, by States and months, 1966 1/

State and division	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Me. ....	1.50	1.51	1.52	1.42	1.32	1.29	1.46	1.49	1.58	1.62	1.61	1.58	1.49
N. H. ....	1.57	1.61	1.62	1.53	1.41	1.41	1.58	1.56	1.63	1.65	1.62	1.58	1.56
Vt. ....	1.40	1.41	1.39	1.31	1.25	1.24	1.41	1.43	1.52	1.55	1.53	1.49	1.41
Mass. ....	1.61	1.64	1.66	1.57	1.48	1.47	1.64	1.64	1.73	1.76	1.72	1.62	1.63
R. I. ....	1.59	1.63	1.64	1.59	1.52	1.48	1.64	1.68	1.73	1.78	1.79	1.65	1.64
Conn. ....	1.59	1.62	1.64	1.56	1.44	1.43	1.67	1.67	1.77	1.76	1.72	1.65	1.63
N. Y. ....	1.31	1.31	1.29	1.24	1.20	1.19	1.34	1.42	1.45	1.48	1.46	1.39	1.34
N. J. ....	1.48	1.48	1.46	1.41	1.35	1.32	1.42	1.51	1.54	1.54	1.50	1.45	1.46
Pa. ....	1.48	1.47	1.45	1.41	1.35	1.35	1.46	1.51	1.54	1.57	1.57	1.53	1.47
N. Atl. ...	1.41	1.41	1.39	1.34	1.29	1.28	1.42	1.48	1.53	1.55	1.53	1.47	1.42
Ohio ....	1.62	1.64	1.64	1.62	1.55	1.49	1.57	1.70	1.77	1.79	1.80	1.80	1.67
Ind. ....	1.67	1.68	1.64	1.56	1.45	1.43	1.50	1.66	1.79	1.83	1.89	1.84	1.66
Ill. ....	1.60	1.60	1.60	1.54	1.50	1.46	1.47	1.52	1.64	1.72	1.76	1.70	1.59
Mich. ....	1.51	1.52	1.50	1.52	1.49	1.45	1.52	1.66	1.68	1.68	1.73	1.71	1.58
Wis. ....	1.38	1.40	1.42	1.37	1.36	1.38	1.47	1.54	1.58	1.61	1.59	1.54	1.47
E. N. Cent.	1.47	1.47	1.50	1.46	1.43	1.41	1.48	1.56	1.63	1.69	1.70	1.64	1.54
Minn. ....	1.36	1.40	1.41	1.41	1.41	1.40	1.51	1.57	1.63	1.61	1.61	1.56	1.49
Iowa ....	1.64	1.63	1.62	1.62	1.57	1.53	1.63	1.65	1.69	1.72	1.74	1.70	1.64
Mo. ....	1.53	1.51	1.50	1.43	1.40	1.39	1.44	1.52	1.57	1.63	1.66	1.63	1.52
N. Dak. ....	2.05	1.99	2.01	2.01	1.96	1.91	2.05	2.19	2.27	2.24	2.27	2.22	2.10
S. Dak. ....	1.71	1.69	1.73	1.67	1.66	1.63	1.75	1.80	1.90	1.86	1.86	1.85	1.76
Nebr. ....	1.80	1.75	1.79	1.63	1.53	1.49	1.63	1.69	1.85	1.93	1.98	1.86	1.74
Kans. ....	1.77	1.76	1.75	1.70	1.63	1.63	1.70	1.75	1.84	1.88	1.89	1.86	1.76
W. N. Cent.	1.50	1.52	1.54	1.52	1.51	1.47	1.56	1.63	1.67	1.69	1.70	1.65	1.58
Del. ....	1.64	1.56	1.55	1.47	1.38	1.38	1.49	1.52	1.60	1.64	1.63	1.63	1.54
Md. ....	1.61	1.58	1.59	1.52	1.43	1.42	1.55	1.57	1.62	1.64	1.60	1.63	1.56
Va. ....	1.58	1.57	1.53	1.49	1.40	1.43	1.46	1.47	1.51	1.60	1.64	1.64	1.53
W. Va. ....	1.36	1.35	1.38	1.35	1.29	1.28	1.38	1.42	1.50	1.52	1.56	1.50	1.41
N. C. ....	1.74	1.76	1.73	1.70	1.67	1.61	1.63	1.69	1.73	1.78	1.80	1.76	1.72
S. C. ....	1.73	1.77	1.69	1.61	1.59	1.63	1.56	1.69	1.89	1.85	1.85	1.80	1.72
Ga. ....	1.84	1.86	1.77	1.74	1.72	1.63	1.63	1.63	1.72	1.78	1.78	1.76	1.74
Fla. ....	2.05	2.07	2.02	1.98	1.93	1.94	2.01	2.05	2.13	2.12	2.12	2.06	2.04
S. Atl. ...	1.73	1.73	1.70	1.65	1.60	1.57	1.63	1.67	1.74	1.77	1.77	1.76	1.69
Ky. ....	1.48	1.44	1.39	1.28	1.23	1.24	1.32	1.39	1.53	1.60	1.64	1.64	1.43
Tenn. ....	1.56	1.55	1.47	1.37	1.36	1.36	1.42	1.49	1.58	1.68	1.71	1.69	1.52
Ala. ....	1.90	1.85	1.82	1.84	1.81	1.79	1.79	1.73	1.77	1.75	1.79	1.70	1.80
Miss. ....	1.78	1.78	1.70	1.61	1.58	1.53	1.62	1.66	1.76	1.84	1.88	1.82	1.71
Ark. ....	1.63	1.61	1.59	1.53	1.48	1.46	1.52	1.59	1.68	1.73	1.74	1.72	1.61
La. ....	1.83	1.87	1.82	1.72	1.73	1.70	1.77	1.80	1.85	1.90	1.86	1.80	1.80
Okla. ....	1.71	1.72	1.70	1.64	1.61	1.59	1.69	1.76	1.82	1.92	1.88	1.85	1.74
Tex. ....	1.83	1.85	1.83	1.80	1.78	1.79	1.93	1.94	2.02	2.04	2.02	1.95	1.90
S. Cent. ...	1.71	1.69	1.63	1.56	1.53	1.52	1.60	1.65	1.74	1.81	1.83	1.78	1.67
Mont. ....	2.04	1.97	1.97	1.88	1.81	1.79	1.88	1.89	2.00	2.04	2.08	2.07	1.95
Idaho ....	1.45	1.45	1.44	1.39	1.35	1.35	1.41	1.50	1.57	1.63	1.66	1.64	1.49
Wyo. ....	1.71	1.72	1.69	1.70	1.64	1.64	1.72	1.82	1.92	1.96	1.98	1.95	1.79
Colo. ....	1.81	1.84	1.84	1.77	1.67	1.63	1.68	1.78	1.94	1.98	1.98	2.00	1.83
N. Mex. ....	1.69	1.68	1.67	1.65	1.56	1.52	1.66	1.70	1.84	1.89	1.86	1.80	1.71
Ariz. ....	1.47	1.44	1.43	1.41	1.39	1.39	1.55	1.66	1.75	1.79	1.76	1.74	1.56
Utah ....	1.51	1.49	1.49	1.48	1.43	1.42	1.47	1.54	1.65	1.68	1.67	1.65	1.54
Nev. ....	1.66	1.63	1.60	1.59	1.56	1.54	1.60	1.61	1.65	1.69	1.70	1.74	1.63
Wash. ....	1.34	1.34	1.36	1.33	1.29	1.34	1.47	1.51	1.58	1.57	1.56	1.54	1.44
Oreg. ....	1.45	1.41	1.36	1.36	1.32	1.33	1.36	1.49	1.56	1.57	1.62	1.61	1.45
Calif. ....	1.48	1.45	1.42	1.37	1.36	1.36	1.39	1.44	1.48	1.46	1.47	1.47	1.43
West ....	1.49	1.46	1.44	1.40	1.38	1.38	1.43	1.50	1.55	1.56	1.56	1.56	1.48
U. S. ....	1.50	1.50	1.49	1.45	1.42	1.41	1.49	1.56	1.62	1.66	1.66	1.61	1.53

1/ See footnote on page 14.

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Table 14. -Milkfat-feed price ratios, selected regions by months, 1966 and 1967 <sup>1/</sup>

Regions	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
						<u>1966</u>							
E. N. Cent. ..	20.4	20.2	20.6	20.3	20.1	20.1	20.6	21.1	21.5	21.9	21.9	21.0	20.8
W. N. Cent. ...	25.6	25.6	26.6	25.9	25.9	25.8	26.6	26.9	27.3	26.8	26.6	25.8	26.3
S. Cent. ....	16.8	17.3	17.1	16.5	16.2	16.6	17.6	18.4	20.0	18.7	18.3	17.8	17.6
West. ....	19.2	19.2	19.3	19.3	19.4	19.1	20.1	20.5	20.6	20.5	20.1	19.9	19.8
U. S. ....	24.3	24.3	25.2	24.6	24.6	24.5	25.2	25.6	26.0	25.6	25.3	24.6	25.0
						<u>1967 <sup>2/</sup></u>							
E. N. Cent. ..	19.9	19.6	19.5	19.2	19.2	19.3	19.4	19.6	19.8	20.1	20.4	20.5	19.7
W. N. Cent. ...	24.9	24.6	24.7	24.8	24.8	24.9	25.3	25.7	26.3	27.0	27.5	27.6	25.7
S. Cent. ....	17.3	16.6	16.4	16.4	16.5	16.3	16.3	16.6	16.7	16.7	17.0	17.2	16.7
West. ....	19.4	19.0	19.1	19.1	19.0	19.0	19.2	19.3	19.6	19.8	20.1	20.2	19.4
U. S. ....	23.8	23.5	23.6	23.7	23.7	23.7	24.0	24.3	24.9	25.5	26.0	26.1	24.4

<sup>1/</sup> 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.

<sup>2/</sup> Preliminary.

Footnotes for Tables 10 and 11:

<sup>1/</sup> 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.

<sup>2/</sup> 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.