

# MILK PRODUCTION

June 11, 1965

Special in this issue  
ROUGHAGE FED TO MILK COWS,  
1964-65 WINTER FEEDING SEASON, Page 7

## SUMMARY

Milk production in the United States during May is estimated at 12,300 million pounds, one-half percent below a year earlier and about equal to the 1959-63 average for the month. On an average daily basis, production increased about 5 percent from April to May, the same seasonal advance as in 1964. May production amounted to 2.04 pounds per person daily, compared with 2.08 pounds a year earlier. Production per cow was about 2 percent above May a year ago -- the smallest year-to-year gain in many months.

Reported condition of dairy pastures averaged 82 percent of normal on June 1, 2 percentage points below a year earlier and 3 points below the average for the date. Soil moisture was generally adequate in central and western areas of the country but cool weather delayed spring pasture growth. At the end of May, rain was badly needed in the Northeast, Florida, and some Gulf Coast areas.

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	781	12,314	12,356	12,300	-0.5
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, May 1965, with comparisons

State	Monthly milk per cow <sup>1/</sup>			Milk production			
	May av. <sup>2/</sup> 1959-63	May 1964	May 1965	May av. <sup>2/</sup> 1959-63	May 1964	May 1965	Change from 1964
	Pounds	Pounds	Pounds	Million pounds	Million pounds	Million pounds	Percent
Maine.....	-	825	830	-	72	69	- 4
New Hampshire.....	-	800	820	-	35	35	0
Vermont.....	-	825	865	-	199	204	+ 3
Massachusetts.....	-	895	945	-	74	76	+ 3
Rhode Island.....	-	860	905	-	9.7	9.6	- 1
Connecticut.....	-	880	920	-	65	67	+ 3
New York.....	843	914	933	1,048	1,096	1,104	+ 1
New Jersey.....	887	930	950	112	105	104	- 1
Pennsylvania.....	795	860	880	695	707	705	0
Ohio.....	779	861	870	519	519	499	- 4
Indiana.....	759	830	810	320	322	305	- 5
Illinois.....	770	855	870	429	412	394	- 4
Michigan.....	784	850	830	501	527	513	- 3
Wisconsin.....	858	900	910	1,838	1,904	1,925	+ 1
Minnesota.....	847	900	900	1,077	1,138	1,138	0
Iowa.....	720	785	750	605	613	573	- 7
Missouri.....	589	610	640	383	351	354	+ 1
North Dakota.....	683	715	740	186	175	174	- 1
South Dakota.....	593	600	630	145	140	147	+ 5
Nebraska.....	640	655	655	202	182	177	- 3
Kansas.....	579	605	620	190	173	170	- 2
Delaware.....	-	775	785	-	17.8	17.3	- 3
Maryland.....	678	700	710	147	146	144	- 1
Virginia.....	571	600	630	187	176	177	+ 1
West Virginia.....	484	490	505	61	53	52	- 2
North Carolina.....	539	575	610	144	140	143	+ 2
South Carolina.....	438	480	495	47	45	44	- 2
Georgia.....	425	455	500	90	83	86	+ 4
Florida.....	597	665	670	111	118	119	+ 1
Kentucky.....	521	580	610	260	266	270	+ 2
Tennessee.....	466	475	500	228	218	226	+ 4
Alabama.....	384	410	440	91	84	87	+ 4
Mississippi.....	349	370	400	122	106	108	+ 2
Arkansas.....	435	475	520	92	84	86	+ 2
Louisiana.....	-	385	415	-	82	85	+ 4
Oklahoma.....	561	590	620	137	119	118	- 1
Texas.....	480	550	590	270	271	273	+ 1
Montana.....	613	615	620	47	42	42	0
Idaho.....	802	787	810	160	146	147	+ 1
Wyoming.....	614	630	635	18.0	16.7	16.5	- 1
Colorado.....	655	700	720	79	75	78	+ 4
New Mexico.....	-	625	640	-	25	26	+ 4
Arizona.....	-	900	905	-	47	48	+ 2
Utah.....	756	770	800	71	66	68	+ 3
Nevada.....	680	780	860	10.3	11.3	12.0	+ 6
Washington.....	873	930	905	203	200	195	- 2
Oregon.....	786	805	810	123	110	109	- 1
California.....	915	981	975	744	776	766	- 1
Alaska.....	-	730	774	-	1.90	1.78	- 6
Hawaii.....	-	840	860	-	11.6	12.9	+11
United States.....	710	767	781	12,314	12,356	12,300	-0.5

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

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

#### May milk production down slightly from 1964

Milk production in the United States during May is estimated at 12,300 million pounds. This is one-half percent below a year earlier and about equal to the 1959-63 average for the month. May was the first month since July 1964 that milk production was below a year earlier, except for February 1965 with one less day than in February 1964. On an average daily basis, production increased about 5 percent from April to May, the same seasonal advance as in 1964. May production amounted to 2.04 pounds per person daily, compared with 2.08 pounds a year earlier. For the first 5 months of this year, average daily milk production was about 1 percent above the corresponding period last year.

Of the 10 leading States in May milk production, only New York, Wisconsin, and Missouri reported increases over a year earlier -- a one-percent gain in each State. Late development of pastures slowed milk output in most North Central States, but many Southern States benefited from unusually good pasture feed during May.

#### Milk output per cow slow in May

Production per cow in May averaged 781 pounds, about 2 percent more than a year earlier. This is the smallest year-to-year gain in many months. May output per cow is estimated below a year earlier in 5 States and shows smaller than usual gains in many others. The average daily rate of 25.2 pounds per cow during May was up about 5 percent from April, a slightly smaller seasonal advance than in 1964.

California output of 975 pounds per cow in May was below a year earlier but continued in first place; the next highest rates were in New Jersey and Massachusetts.

#### Grain fed per cow up 8 percent

Reported grain and concentrate feeding rates on June 1 averaged 8.3 pounds per cow, 8 percent above a year earlier and 28 percent more than the average for the date. On June 1, milk cows were receiving 10 or more pounds of grain and concentrates in 6 States and at least 9 pounds in 10 other States. On June 1, 1964, only 3 States were feeding 10 or more pounds per cow, while 7 other States were feeding at least 9 pounds per cow.

#### May milk-feed price ratio up 2 percent

The May milk-feed price ratio at 1.29 was 2 percent higher than the 1.26 ratio a year earlier and equaled the May 1959-63 average. Seasonally, the ratio was down 3 percent from April which is also the average change. With stable feed prices, the seasonal and year-ago changes in the ratio resulted from changes in wholesale milk prices. In cream-producing areas, the milkfat-feed price ratio was 22.5, compared with 23.1 in May a year ago and the average of 24.4.

#### Pastures improved slightly during May

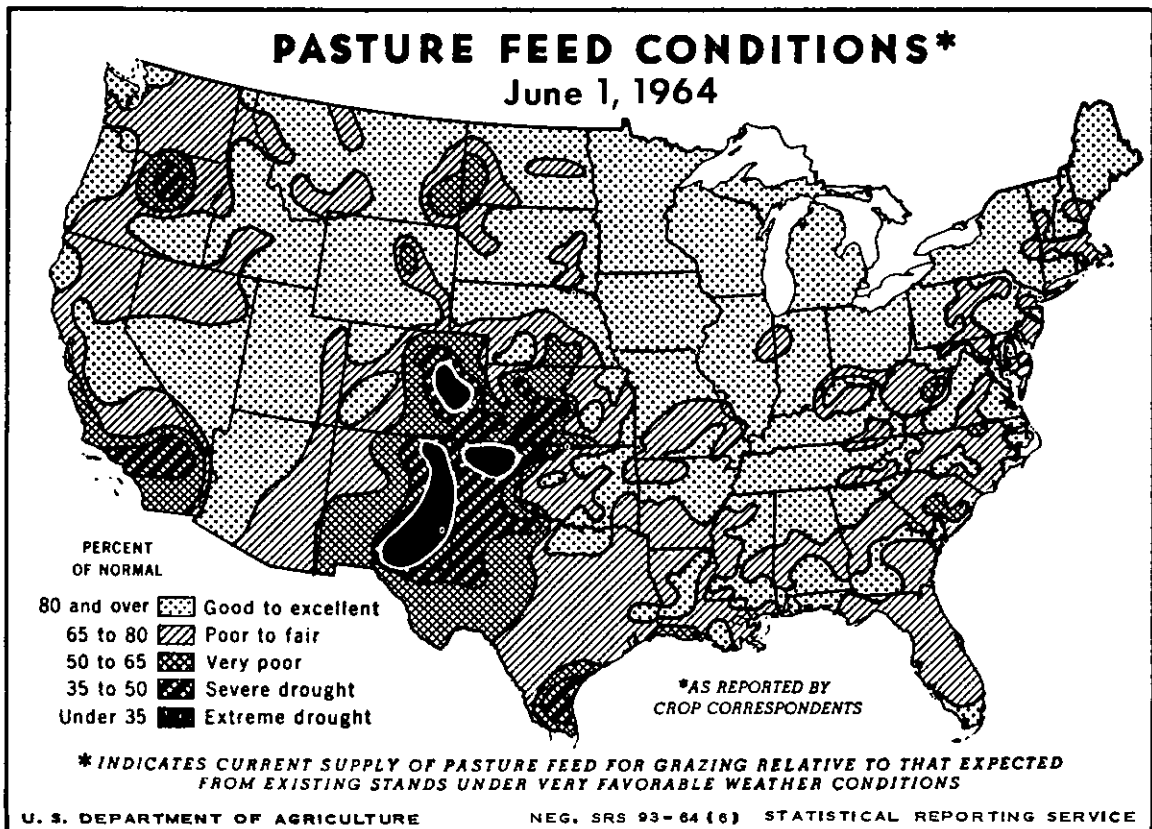
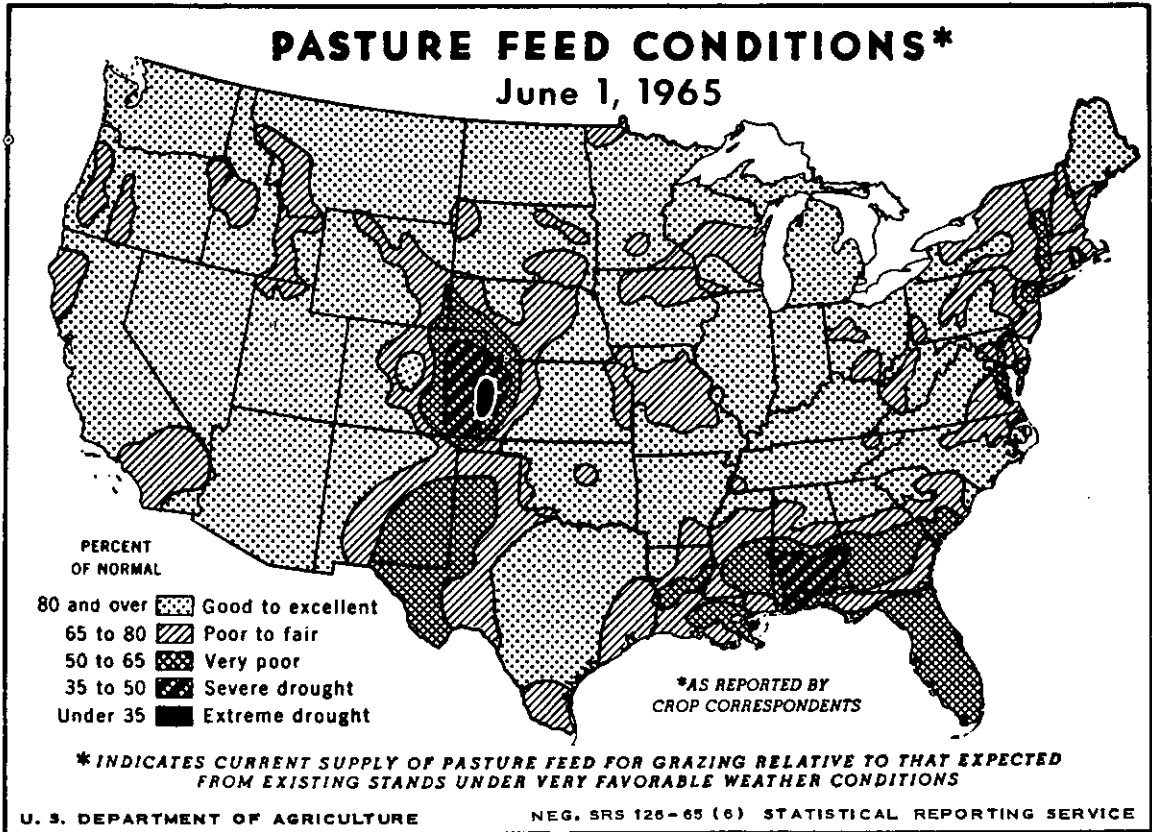
Pasture feed condition was rated good to excellent by crop reporters for most areas of the Nation on June 1. Reported condition of dairy pastures averaged 82 percent of normal, 2 percentage points below a year earlier and 3 points below average for June 1. Based on the 5-year average, there is usually a 2-point increase in condition of dairy pastures from May 1 to June 1. This year pasture condition improved 1 percentage point during May. Improvement in pasture conditions during May resulted from adequate soil moisture in western and central areas of the country. However, offsetting were above-normal temperatures in the eastern two-thirds of the United States where rainfall was generally short early in the month and again late in the month, particularly in the Gulf and Atlantic coastal areas.

June 1 pasture conditions in New England generally declined from the already low level reported on May 1. Dairy correspondents reported 75 percent of cattle roughage requirements came from pastures. Development of pastures in most Atlantic Coast and Gulf States was retarded by below normal amounts of rainfall and above normal temperatures during May. By the end of June, drought conditions were threatening for Florida and for the fourth consecutive season in New Jersey. However, rains in late May and early June brought relief to areas from the Carolinas to Delaware.

Progressive pasture improvement occurred during May in the North Central States. Soil moisture supplies were generally adequate, with excessive amounts in some areas. Although temperatures early in the month were somewhat low for ideal pasture development, later in the month they were near normal. Pasture condition improved slightly during May in Kansas but much of the western portion of the State was droughty on June 1. Although late May rains gave grasses in the area a good start, more rain is needed before adequate grazing is provided.

Pasture condition in Alabama, Mississippi, and Louisiana was below June 1 a year ago and last month. In these States, with only scattered thunder showers and some areas with no rain during May,

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pastures deteriorated. Pasture feed condition in Kentucky, Tennessee, Arkansas, Oklahoma, and Texas was rated good to excellent on June 1 -- supplying adequate grazing. Condition of pastures in most of these States was the best since 1959.

In the West, pastures developed slowly as below normal temperatures dominated most of the area during May. Except for Colorado and New Mexico, pastures were rated 80 percent or more of normal on June 1, with little change from May 1. Although somewhat better than on May 1, pastures were very poor in Colorado and New Mexico, reflecting the droughty conditions of the previous two seasons. In California, dryland pastures were greatly improved from a year earlier as a result of ample rainfall during the winter and early spring. Moreover, cool temperatures were favorable for conservation of moisture.

Table 3.-Dairy pasture feed condition, as percentage of normal, June 1, 1965, with comparisons <sup>1/</sup>

State and division	June 1, av. 1959-63	June 1, 1964	June 1, 1965	State and division	June 1, av. 1959-63	June 1, 1964	June 1, 1965
	Percent	Percent	Percent		Percent	Percent	Percent
Me. ....	89	92	83	N. C. ....	81	77	88
N. H. ....	89	87	73	S. C. ....	76	72	76
Vt. ....	91	93	73	Ga. ....	77	79	70
Mass. ....	90	75	70	Fla. ....	70	69	52
R. I. ....	92	70	80	S. Atl. ..	78	78	81
Conn. ....	86	85	74	Ky. ....	85	83	90
N. Y. ....	86	88	76	Tenn. ....	80	85	90
N. J. ....	78	78	71	Ala. ....	76	82	62
Pa. ....	82	85	82	Miss. ....	75	80	67
N. Atl. ....	85	86	77	Ark. ....	76	79	87
Ohio.....	86	89	84	La. ....	67	75	70
Ind. ....	91	86	89	Okla. ....	79	72	88
Ill. ....	91	86	89	Tex. ....	71	63	83
Mich. ....	91	94	91	S. Cent. .	77	76	82
Wis. ....	88	96	79	Mont. ....	81	82	89
E. N. Cent. .	89	92	85	Idaho.....	88	83	86
Minn. ....	87	92	86	Wyo. ....	81	83	80
Iowa.....	92	93	85	Colo. ....	76	55	64
Mo. ....	85	81	78	N. Mex. ....	66	45	66
N. Dak. ....	76	81	87	Ariz. ....	84	83	92
S. Dak. ....	80	86	83	Utah.....	79	84	85
Nebr. ....	85	79	75	Nev. ....	76	81	89
Kans. ....	80	66	80	Wash. ....	87	77	87
W. N. Cent. .	86	85	83	Oreg. ....	91	80	85
Del. ....	77	77	73	Calif. ....	79	72	89
Md. ....	80	80	80	West. ....	82	74	85
Va. ....	80	83	92	U. S. ....	85	84	82
W. Va. ....	77	78	82				

<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.

Table 4.-Grain and other concentrates fed daily per milk cow in herds kept by reporters, June 1, 1965, with comparisons

State	June 1, av. 1959-63	June 1, 1964	June 1, 1965	State	June 1, av. 1959-63	June 1, 1964	June 1, 1965
	Lb.	Lb.	Lb.		Lb.	Lb.	Lb.
Maine.....	7.6	8.2	9.7	West Virginia.....	4.2	4.8	5.6
New Hampshire...	6.7	7.9	9.8	North Carolina....	6.9	8.1	8.6
Vermont.....	6.4	7.3	8.8	South Carolina....	5.6	5.5	6.0
Massachusetts...	7.6	9.7	10.5	Georgia.....	6.2	8.9	9.8
Rhode Island....	8.4	10.0	10.5	Florida.....	4.9	5.0	6.5
Connecticut.....	7.9	9.1	10.0	Kentucky.....	5.2	6.8	6.5
New York.....	7.2	8.5	9.3	Tennessee.....	5.3	5.7	6.2
New Jersey.....	8.2	9.2	10.1	Alabama.....	5.5	7.0	8.0
Pennsylvania....	8.8	10.4	11.0	Mississippi.....	3.9	5.0	6.3
Ohio.....	7.2	9.0	9.0	Arkansas.....	4.8	6.4	7.3
Indiana.....	7.1	8.5	9.2	Louisiana.....	4.4	6.6	7.7
Illinois.....	6.5	8.0	9.0	Oklahoma.....	6.6	8.0	8.0
Michigan.....	7.7	9.3	8.9	Texas.....	4.6	4.6	5.0
Wisconsin.....	6.7	6.7	8.5	Montana.....	4.9	5.4	6.7
Minnesota.....	7.3	8.4	8.9	Idaho.....	5.3	6.5	6.3
Iowa.....	7.0	7.7	8.3	Wyoming.....	4.5	4.6	4.7
Missouri.....	6.2	7.8	8.0	Colorado.....	6.1	8.2	8.8
North Dakota....	6.7	7.5	8.4	New Mexico.....	5.9	8.5	8.8
South Dakota....	5.4	6.0	5.9	Arizona.....	6.1	8.5	8.5
Nebraska.....	6.2	6.9	6.2	Utah.....	6.4	6.8	6.5
Kansas.....	6.7	6.7	8.2	Nevada.....	5.5	9.0	9.3
Delaware.....	8.2	9.4	10.0	Washington.....	5.9	7.5	6.9
Maryland.....	8.1	10.0	9.7	Oregon.....	5.5	5.5	6.5
Virginia.....	7.0	7.7	8.6	California.....	6.7	8.5	9.0
				United States.....	6.5	7.7	8.3

Table 5.-Average milk price received by farmers and value of concentrate ration fed to milk cows, by regions, May 1965, with comparisons

Region	Milk price per 100 pounds				Ration value per 100 pounds			
	May av. 1959-63	May 1964	April 1965	May 1965	May av. 1959-63	May 1964	April 1965	May 1965
	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.
N. Atl. ....	4.13	4.07	4.29	4.11	3.56	3.57	3.56	3.54
E. N. Cent. ..	3.47	3.48	3.71	3.64	2.69	2.79	2.82	2.82
W. N. Cent. ..	3.23	3.26	3.41	3.35	2.33	2.47	2.54	2.56
S. Atl. ....	5.10	5.16	5.36	5.21	3.32	3.45	3.39	3.40
S. Cent. ....	4.21	4.26	4.43	4.28	3.07	3.14	3.12	3.12
West. ....	4.10	4.15	4.30	4.20	3.16	3.22	3.18	3.18
U. S.								
Milk areas....	3.82	3.82	4.02	3.91	2.95	3.03	3.03	3.03
Cream areas...	-	-	-	-	2.45	2.54	2.61	2.62
Milk and cream areas.....	-	-	-	-	2.92	3.02	3.02	3.02

Table 6.-Milk-feed and milkfat-feed price ratios, by regions, May 1965, with comparisons

Region	Milk-feed ratio 1/				Milkfat-feed ratio 2/			
	May av. 1959-63	May 1964	April 1965	May 1965	May av. 1959-63	May 1964	April 1965	May 1965
N. Atl. ....	1.16	1.14	1.21	1.16	-	-	-	-
E. N. Cent. ..	1.29	1.25	1.32	1.29	20.6	19.9	19.9	20.0
W. N. Cent. ..	1.39	1.32	1.34	1.31	26.3	24.1	23.5	23.4
S. Atl. ....	1.53	1.50	1.58	1.53	-	-	-	-
S. Cent. ....	1.37	1.36	1.42	1.37	16.6	16.3	16.5	16.5
West. ....	1.30	1.29	1.35	1.32	18.5	17.8	18.2	18.2
U. S. ....	1.29	1.26	1.33	1.29	24.4	23.1	22.6	22.5

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.

## ROUGHAGE FED TO MILK COWS, 1964-65 WINTER FEEDING SEASON

Milk cows were fed 3.5 tons (hay equivalent) of roughage per cow during the 1964-65 winter feeding season, according to the Crop Reporting Board. The 1964-65 rate was the same as in the previous winter feeding season.

### Hay feeding rate unchanged

During the 1964-65 winter feeding season, milk cows received 2.4 tons of hay per head, unchanged from the quantity fed a year earlier. Although hay was fed heavily in the Western Region, the 3.2 tons consumed there was less than the 3.4 tons of a year earlier. The East North Central Region, with 2.6 tons and the North Atlantic and West North Central Regions, each with an average of 2.5 tons of hay consumed per cow, were the other leading areas in hay feeding rates. With better opportunities to obtain winter roughage from pasture, consumption of hay in the South Atlantic Region at 1.4 tons and the South Central at 1.8 tons was below the National average. Milk cows in Nevada, Utah, and Idaho received an average of more than 4.0 tons of hay, and the feeding rate exceeded 3.0 tons in 6 other States.

Alfalfa or mixed alfalfa hay was the predominate kind fed to milk cows during the winter season -- nationally 74 percent of the hay fed was alfalfa or mixtures predominately alfalfa. Clover or mixed clover hay represented 13 percent of the hay fed to milk cows during the 1964-65 winter season. Lespedeza accounted for 2 percent and Coastal Bermuda 1 percent of the U. S. total. Other hay not specifically classified amounted to 10 percent of all hay fed. Alfalfa hay represented the bulk of the hay fed in the East North Central Region, with 88 percent, and in the West North Central, with 83 percent. In these regions the relative importance of alfalfa increased from the previous year. However, in the Western Region alfalfa or alfalfa hay mixture represented 90 percent of the hay fed -- down slightly from the previous feeding season. Clover or mixed clover hay was an important kind of hay fed to milk cows in the North Atlantic and South Atlantic Regions -- particularly in the New England States, where clover or mixed clover hay nearly equaled or exceeded the quantity of other hay being fed. Regionally, lespedeza hay represented sizable portions of hay fed in the South Atlantic and South Central Regions -- 5 and 11 percent, respectively. In several States of these regions Coastal Bermuda hay served an important role in the hay ration -- particularly in South Carolina, Georgia, Alabama, Louisiana, and Texas.

### Silage feeding rates increased

During the 1964-65 winter feeding season milk cows were fed an average of 3.2 tons of silage, slightly more than the 3.1 tons fed per cow during the previous feeding season. The silage feeding rate represents 1.1 tons of hay equivalent per cow, with 3 tons of silage considered equal to 1 ton of hay. Silage was fed most heavily in the East North Central Region where the average of 4.3 tons compares with 4.2 tons fed a year earlier. Silage feeding rates averaged more than 3 tons per cow in the North Atlantic, West North Central, and South Atlantic Regions. Delaware and Maryland were the leading States with an average rate of more than 5 tons per cow, and 11 other States had average feeding rates between 4 and 5 tons.

Of the different silages fed, corn silage was the most popular, accounting for 83 percent of the 1964-65 season total. Corn silage was popular in all regions, ranging from 65 percent in the South Central to 86 percent in both the North Atlantic and South Atlantic. Grass silage represented 10 percent of the total silage quantity fed last winter -- up slightly from 9 percent in 1964. Grass silage was important in the North Atlantic, East North Central, and Western Regions. Sorghum silage represented 5 percent of the total silage fed to milk cows in the United States, unchanged from the previous year. Extensive usage of sorghum silage was confined primarily to 8 States in the South Central and West North Central Regions.

### Value of hay fed to milk cows slightly higher

Reported value per ton of all hay fed to milk cows on February 1, 1965 averaged \$27.31, slightly higher than on the same date a year earlier. Increased hay values were reported in the North Atlantic and West North Central Regions, but all other regions indicated decreases. Hay values were highest in the South Atlantic Region and lowest in the West North Central. By States, February 1 hay values ranged from \$19.50 per ton in North Dakota to \$43.50 in New Jersey. On February 1, baled hay was being fed by 88 percent of the dairy reporters, chopped hay by 4 percent, and loose hay by 8 percent -- about the same proportions as a year ago. During the 1964-65 winter feeding season dairymen purchased 18 percent of the hay fed to milk cows, unchanged from a year earlier.

Table 7.-Hay and silage fed per milk cow in herds kept by dairy reporters, winter feeding period ending in May, by States, 1964 and 1965 <sup>1/</sup>

State and division	Hay		Silage		Hay equivalent of all roughage <sup>2/</sup>	
	1964	1965	1964	1965	1964	1965
	Tons	Tons	Tons	Tons	Tons	Tons
Me., N. H., Vt. ....	2.9	2.8	1.9	2.5	3.5	3.7
Mass., R. I., Conn. ..	2.3	2.1	3.2	3.6	3.4	3.3
N. Y. ....	2.8	2.8	3.6	3.6	4.0	4.0
N. J. ....	2.4	1.9	4.6	4.5	3.9	3.5
Pa. ....	2.3	2.0	4.1	3.6	3.6	3.2
N. Atl. ....	2.6	2.5	3.5	3.5	3.8	3.7
Ohio.....	2.3	2.4	3.6	4.0	3.5	3.7
Ind. ....	2.1	2.2	4.2	4.5	3.5	3.7
Ill. ....	2.4	2.6	4.0	4.2	3.7	4.0
Mich. ....	2.6	2.6	4.5	4.4	4.1	4.0
Wis. ....	2.6	2.7	4.2	4.4	4.0	4.2
E. N. Cent. ....	2.5	2.6	4.2	4.3	3.9	4.0
Minn. ....	2.8	2.8	3.6	3.6	4.0	4.0
Iowa. ....	2.9	2.6	2.7	2.5	3.8	3.4
Mo. ....	2.5	2.1	3.6	3.3	3.7	3.2
N. Dak. ....	3.4	3.2	2.9	2.4	4.3	4.0
S. Dak. ....	2.3	2.6	3.3	4.5	3.4	4.1
Nebr. ....	2.6	2.1	2.1	1.9	3.3	2.7
Kans. ....	2.0	2.3	4.3	4.2	3.4	3.8
W. N. Cent. ....	2.7	2.5	3.3	3.2	3.8	3.6
Del., Md.....	1.8	1.7	5.4	5.4	3.6	3.5
Va. ....	1.8	1.4	5.2	4.6	3.5	3.0
W. Va. ....	1.9	1.8	4.0	4.2	3.3	3.2
N. C. ....	1.2	1.1	3.0	3.0	2.2	2.1
S. C. ....	1.0	1.3	4.1	4.6	2.3	2.9
Ga. ....	1.5	1.7	3.0	3.2	2.5	2.8
Fla. ....	a/	a/	a/	a/	a/	a/
S. Atl. ....	1.5	1.4	3.6	3.6	2.7	2.6
Ky. ....	2.2	2.1	1.7	1.8	2.7	2.7
Tenn. ....	1.6	1.5	1.7	1.7	2.2	2.1
Ala. ....	1.2	1.0	1.5	1.5	1.7	1.5
Miss. ....	1.0	1.0	a/	0.8	1.2	1.2
Ark. ....	1.8	1.8	1.2	1.1	2.2	2.1
La. ....	1.2	1.6	a/	1.5	1.5	2.1
Okla. ....	2.4	2.3	1.9	1.4	3.0	2.7
Tex. ....	1.6	2.2	0.9	1.3	1.9	2.6
S. Cent. ....	1.7	1.8	1.3	1.4	2.1	2.2
Mont. ....	3.6	3.4	0.8	0.9	3.8	3.7
Idaho.....	4.2	4.0	2.4	3.1	5.0	5.0
Wyo. ....	3.4	3.1	a/	2.0	4.0	3.8
Colo. ....	4.0	3.8	3.1	3.8	5.0	5.1
N. Mex. ....	2.8	3.3	2.0	2.4	3.5	4.1
Ariz. ....	2.9	2.9	2.0	2.7	3.6	3.8
Utah.....	4.5	4.4	3.3	3.0	5.6	5.4
Nev. ....	4.3	4.5	a/	1.5	4.5	5.0
Wash. ....	2.7	2.8	2.6	2.7	3.6	3.7
Oreg. ....	2.4	2.2	3.6	3.7	3.6	3.4
Calif. ....	3.2	3.1	1.2	1.1	3.6	3.5
West. ....	3.4	3.2	1.9	2.0	4.0	3.9
U. S. ....	2.4	2.4	3.1	3.2	3.5	3.5

<sup>1/</sup> Based on tonnage fed during the October-May winter feeding period as reported on May 1, and number of milk cows in herds on that date. <sup>2/</sup> In computing hay equivalent, 3 tons of silage are considered equal to 1 ton of hay. a/ Number of reports not sufficient to establish a stable average.



Table 8.-Hay: Percentage, by kinds, fed to milk cows in herds kept by dairy reporters, winter feeding period ending in May, by States, 1964 and 1965 1/

State and division	Alfalfa or mixed alfalfa		Clover or mixed clover		Lespedeza		Coastal bermuda		Other	
	1964	1965	1964	1965	1964	1965	1964	1965	1964	1965
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Me., N. H., Vt. ....	22	30	63	51	-	-	-	-	15	19
Mass., R. I., Conn. ....	30	43	54	42	-	-	-	-	16	15
N. Y. ....	59	59	23	24	-	-	-	-	18	17
N. J. ....	67	80	22	16	-	-	-	-	11	4
Pa. ....	63	47	26	35	-	-	-	-	11	18
N. Atl. ....	53	51	32	32	-	-	-	-	15	17
Ohio.....	72	75	24	20	-	-	-	-	4	5
Ind. ....	72	82	24	16	-	-	-	-	4	2
Ill. ....	87	90	11	8	-	-	-	-	2	2
Mich. ....	87	92	10	6	-	-	-	-	3	2
Wis. ....	87	90	12	9	-	-	-	-	1	1
E. N. Cent. ....	84	88	14	10	-	-	-	-	2	2
Minn. ....	89	89	8	8	-	-	-	-	3	3
Iowa.....	85	87	13	13	-	-	-	-	2	-
Mo. ....	62	68	19	7	5	9	-	-	14	16
N. Dak. ....	59	58	2	2	-	-	-	-	39	40
S. Dak. ....	84	85	3	1	-	-	-	-	13	14
Nebr. ....	83	89	1	2	-	-	-	-	16	9
Kans. ....	82	84	2	3	-	-	-	-	16	13
W. N. Cent. ....	80	83	9	7	1	1	-	-	10	9
Del., Md. ....	60	59	36	38	2	1	-	-	2	2
Va. ....	79	62	13	23	2	4	-	-	6	11
W. Va. ....	62	79	31	18	2	-	-	-	5	3
N. C. ....	33	24	21	20	18	22	-	6	28	28
S. C. ....	3	6	2	-	13	7	46	51	36	36
Ga. ....	14	6	6	4	8	4	45	36	27	50
Fla. ....	a/	a/	a/	a/	a/	a/	a/	a/	a/	a/
S. Atl. ....	47	40	19	19	5	5	12	12	17	24
Ky. ....	52	65	20	12	19	16	-	-	9	7
Tenn. ....	30	31	20	22	29	29	-	-	21	18
Ala. ....	9	7	15	9	10	9	18	11	48	64
Miss. ....	7	6	26	21	35	27	1	1	31	45
Ark. ....	26	41	13	3	23	5	2	-	36	51
La. ....	3	10	10	9	2	2	33	23	52	56
Okla. ....	64	61	1	1	3	2	2	2	30	34
Tex. ....	51	56	1	1	2	1	5	11	41	31
S. Cent. ....	39	45	13	9	16	11	4	5	28	30
Mont. ....	92	85	6	10	-	-	-	-	2	5
Idaho.....	99	97	1	2	-	-	-	-	-	1
Wyo. ....	97	91	-	4	-	-	-	-	3	5
Colo. ....	99	99	-	-	-	-	-	-	1	1
N. Mex. ....	98	98	-	-	-	-	-	-	2	2
Ariz. ....	a/	a/	a/	a/	-	-	-	-	a/	a/
Utah.....	96	96	2	3	-	-	-	-	2	1
Nev. ....	100	100	-	-	-	-	-	-	-	-
Wash. ....	78	66	15	24	-	-	-	-	7	10
Oreg. ....	74	64	17	23	-	-	-	-	9	13
Calif. ....	94	94	2	1	-	-	-	-	4	5
West. ....	92	90	4	5	-	-	-	-	4	5
U. S. ....	72	74	15	13	2	2	1	1	10	10

1/ For October-May winter feeding period as reported May 1.

a/ Number of reports not sufficient to establish a stable average.

Table 9.-Silage: Percentage, by kinds, fed to milk cows in herds kept by dairy reporters, winter feeding period ending in May, by States, 1964 and 1965 <sup>1/</sup>

State and division	Corn silage		Grass silage		Sorghum silage		Other silage	
	1964	1965	1964	1965	1964	1965	1964	1965
	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Me., N. H., Vt. ....	70	81	30	14	-	-	-	5
Mass., R. I., Conn. ...	79	81	21	13	-	-	-	6
N. Y. ....	84	86	12	11	-	-	4	3
N. J. ....	90	91	6	7	2	2	2	-
Pa. ....	83	87	13	10	-	-	4	3
N. Atl. ....	83	86	14	11	-	-	3	3
Ohio.....	83	74	14	26	2	-	1	-
Ind. ....	82	83	10	11	1	4	7	2
Ill. ....	90	86	7	6	3	5	-	3
Mich. ....	92	89	6	10	1	-	1	1
Wis. ....	88	85	8	14	-	-	4	1
E. N. Cent. ....	87	84	9	14	1	1	3	1
Minn. ....	95	93	3	2	1	1	1	4
Iowa.....	86	83	9	11	1	3	4	3
Mo. ....	72	88	2	9	24	3	2	-
N. Dak. ....	99	100	-	-	1	-	-	-
S. Dak. ....	80	85	5	5	15	10	-	-
Nebr. ....	58	49	1	12	37	38	4	1
Kans. ....	57	43	-	3	42	54	1	-
W. N. Cent. ....	83	84	3	5	12	9	2	2
Del., Md. ....	86	85	9	4	2	5	3	6
Va. ....	96	98	2	1	-	-	2	1
W. Va. ....	84	85	11	15	-	-	5	-
N. C. ....	93	90	1	1	6	3	-	6
S. C. ....	68	68	7	-	24	32	1	-
Ga. ....	86	81	1	-	9	14	4	5
S. Atl. ....	87	86	6	3	4	6	3	5
Ky. ....	88	95	7	2	5	3	-	-
Tenn. ....	79	84	8	11	6	3	7	2
Ala. ....	41	74	-	-	54	26	5	-
Okla. ....	32	26	-	3	61	65	7	6
Tex. ....	22	47	9	3	55	47	14	3
S. Cent. ....	62	65	6	5	27	28	5	2
Mont. ....	78	90	22	-	-	1	-	9
Idaho.....	91	83	7	6	-	1	2	10
Colo. ....	97	97	-	3	2	-	1	-
N. Mex. ....	56	62	-	-	43	38	1	-
Utah.....	96	88	-	-	3	12	1	-
Wash. ....	33	29	55	55	1	=	11	16
Oreg. ....	55	55	40	43	-	-	5	2
Calif. ....	98	95	1	3	-	-	1	2
West. ....	75	73	19	18	3	4	3	5
U. S. ....	83	83	9	10	5	5	3	2

<sup>1/</sup> Data are shown only for those States where the reported amount fed was sufficient to provide a stable breakdown by kinds.

Table 10.-Value per ton of hay fed to milk cows in herds kept by dairy reporters and percentage reporting on baled, chopped and loose hay, by States, February 1, 1964 and 1965 <sup>1/</sup>

State and division	Value per ton				Number of reports as percentage of total					
	Baled		All <sup>2/</sup>		Baled		Chopped		Loose	
	1964	1965	1964	1965	1964	1965	1964	1965	1964	1965
	Dol.	Dol.	Dol.	Dol.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Me., N. H., Vt. ....	33.50	33.50	33.00	33.00	94	95	0	4	6	1
Mass., R. I., Conn. ....	40.00	42.00	40.00	41.50	99	92	0	3	1	5
N. Y. ....	28.00	32.50	28.00	32.50	94	95	3	3	3	2
N. J. ....	46.00	43.50	46.00	43.50	97	98	2	2	1	0
Pa. ....	39.00	35.00	39.00	35.00	98	98	1	1	1	1
N. Atl. ....	33.52	34.31	33.32	34.15	96	96	1	2	3	2
Ohio.....	31.00	26.00	31.00	26.00	93	93	3	3	4	4
Ind. ....	26.50	26.50	26.50	26.00	93	94	4	4	3	2
Ill. ....	26.00	25.00	26.00	24.50	95	95	4	4	1	1
Mich. ....	24.00	21.00	24.00	21.00	90	89	7	8	3	3
Wis. ....	23.00	25.00	22.50	24.50	85	87	12	10	3	3
E. N. Cent. ....	24.85	24.57	24.65	24.20	89	90	8	7	3	3
Minn. ....	18.00	23.50	18.00	23.50	91	92	3	2	6	6
Iowa.....	19.50	20.50	19.00	20.50	92	92	7	2	1	6
Mo. ....	28.50	25.50	27.50	25.50	94	96	2	2	4	2
N. Dak. ....	16.50	20.50	15.50	19.50	63	63	2	3	35	34
S. Dak. ....	16.00	23.50	15.00	21.00	56	56	2	4	42	40
Nebr. ....	19.50	21.50	17.50	20.00	56	57	6	6	38	37
Kans.....	25.00	24.00	24.50	23.50	88	89	3	2	9	9
W. N. Cent. ....	19.93	22.79	19.41	22.28	82	83	4	3	14	14
Del., Md. ....	47.00	40.00	46.50	40.00	98	97	0	1	2	2
Va. ....	46.50	39.50	45.50	39.00	91	92	0	0	9	8
W. Va. ....	42.00	37.00	39.00	36.00	74	74	0	2	26	24
N. C. ....	37.00	34.50	35.50	34.00	85	92	2	2	13	6
S. C. ....	32.50	33.00	32.00	31.50	87	84	1	2	12	14
Ga. ....	30.50	30.00	30.00	30.00	98	96	1	2	1	2
Fla. <sup>3/</sup> .....	-	-	38.50	33.00	-	-	-	-	-	-
S. Atl. ....	41.58	36.70	40.62	36.31	88	89	1	1	11	10
Ky. ....	27.50	31.00	27.00	30.50	88	89	1	1	11	10
Tenn. ....	30.00	30.00	30.00	30.00	92	91	1	1	7	8
Ala. ....	31.00	31.00	31.00	31.00	86	80	8	10	6	10
Miss. ....	26.00	23.50	25.50	23.50	86	85	5	8	9	7
Ark. ....	27.50	26.00	27.00	25.50	93	95	2	0	5	5
La. ....	27.00	25.00	27.00	24.50	100	96	0	2	0	2
Okla. ....	31.00	24.50	30.00	24.50	94	94	3	3	3	3
Tex. ....	38.00	31.00	37.50	30.50	92	94	4	3	4	3
S. Cent. ....	30.34	28.68	29.95	28.34	91	90	2	3	7	7
Mont. ....	21.00	26.00	20.00	25.50	75	75	2	5	23	20
Idaho.....	21.50	23.00	21.50	22.50	86	90	9	6	5	4
Wyo. ....	21.00	25.00	20.50	24.00	77	76	0	4	23	20
Colo. ....	28.00	31.50	27.50	30.50	80	87	4	1	16	12
N. Mex. ....	35.00	35.00	34.50	35.00	94	93	0	7	6	0
Ariz. ....	37.50	33.50	36.00	33.00	94	96	4	2	2	2
Utah.....	23.50	27.00	23.50	26.50	94	90	3	4	3	6
Nev. ....	29.00	28.50	28.00	27.50	82	82	12	12	6	6
Wash. ....	28.00	27.50	27.50	27.00	90	94	5	3	5	3
Oreg. ....	26.50	27.00	26.00	26.50	83	88	9	5	8	7
Calif. ....	34.00	32.00	33.50	31.50	94	95	6	4	0	1
West. ....	29.44	29.26	29.08	28.91	86	89	6	4	8	7
U. S. ....	27.44	27.67	27.08	27.31	87.7	88.5	4.3	3.8	8.0	7.7

<sup>1/</sup> Reporters were requested to report value only for the type of hay being fed.  
<sup>2/</sup> Includes reports on value of baled, chopped, or loose hay.  
<sup>3/</sup> Florida data not available by type.

UNITED STATES DEPARTMENT OF AGRICULTURE  
 STATISTICAL REPORTING SERVICE  
 WASHINGTON, D. C. 20250

POSTAGE AND FEES PAID  
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Table 11. - Purchased hay as percentage of all hay fed to milk cows in herds kept by dairy reporters, winter feeding season ending in May, by States, 1964 and 1965 <sup>1/</sup>

State and division	1964	1965	State and division	1964	1965
	Percent	Percent		Percent	Percent
Me., N. H., Vt. ....	7	12	S. C. ....	11	23
Mass., R. I., Conn. ...	21	14	Ga. ....	31	37
N. Y. ....	4	9	S. Atl. ....	21	19
N. J. ....	21	19	Ky. ....	7	7
Pa. ....	7	9	Tenn. ....	8	13
N. Atl. ....	7	10	Ala. ....	29	23
Ohio.....	8	7	Miss. ....	8	8
Ind. ....	12	7	Ark. ....	33	48
Ill. ....	6	6	La. ....	26	31
Mich. ....	6	4	Okla. ....	42	35
Wis. ....	6	5	Tex. ....	62	67
E. N. Cent. ....	7	5	S. Cent. ....	26	32
Minn. ....	3	6	Mont. ....	28	27
Iowa.....	12	4	Idaho.....	29	25
Mo. ....	21	17	Wyo. ....	32	12
N. Dak. ....	4	5	Colo. ....	67	65
S. Dak. ....	6	9	N. Mex. ....	68	84
Nebr. ....	8	14	Ariz. ....	86	91
Kans. ....	9	10	Utah.....	36	34
W. N. Cent. ....	9	8	Nev. ....	41	49
Del., Md. ....	9	13	Wash. ....	62	51
Va. ....	27	12	Oreg. ....	44	58
W. Va. ....	18	30	Calif. ....	86	85
N. C. ....	16	12	West. ....	64	64
			U. S. ....	18.2	18.4

<sup>1/</sup> Based on tonnage fed and to be fed during October-May winter feeding season, as reported on May 1.