

# MILK PRODUCTION

June 13, 1966

Special in this issue  
ROUGHAGE FED TO MILK COWS,  
1965-66 WINTER FEEDING SEASON, Page 7

## SUMMARY

May milk production in the United States is estimated at 11,707 million pounds, 4 percent less than a year earlier and the least for the month since 1940. On a daily average basis, production advanced 4 percent from April to May, about the same seasonal increase as in 1965. May milk output provided 1.92 pounds per person daily, compared with 2.03 pounds a year earlier. Production per cow averaged 794 pounds for May, up 1.5 percent from a year earlier.

Reported condition of dairy pastures on June 1 averaged 84 percent of normal, 2 percentage points above a year earlier and equal to the 1960-64 average for the date. In the eastern half of the United States, pastures improved during May and were better than a year earlier by June 1. In the western half, pastures developed slowly during May as a result of light precipitation. Grain and concentrates fed averaged 8.9 pounds per milk cow on June 1, up 7 percent from a year ago.

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

Month	Milk per cow			Milk production			
	Average 1960-64	1965	1966	Average 1960-64	1965	1966	Change from 1965
	Pounds	Pounds	Pounds	Million Pounds	Million Pounds	Million Pounds	Percent
January.....	587	658	658	10,028	10,419	9,865	-5.3
February.....	565	622	620	9,634	9,820	9,254	-5.8
March.....	642	709	716	10,932	11,155	10,645	-4.6
April.....	659	722	735	11,197	11,305	10,874	-3.8
May.....	728	782	794	12,347	12,206	11,707	-4.1
June.....	701	756		11,872	11,742		
July.....	644	702		10,888	10,856		
August.....	602	653		10,158	10,046		
September....	567	615		9,555	9,404		
October.....	573	621		9,634	9,446		
November.....	551	602		9,252	9,106		
December.....	584	635		9,788	9,556		
Annual.....	7,407	8,080		125,285	125,061		

Table 2.—Monthly milk per cow and milk production, May 1966, with comparisons

State	Monthly milk per cow 1/			Milk production			
	May av. 1960-64 2/	May 1965	May 1966	May av. 1960-64 2/	May 1965	May 1966	Change from 1965
	Pounds	Pounds	Pounds	Million pounds	Million pounds	Million pounds	Percent
Maine.....	-	840	875	-	70	68	- 3
New Hampshire.....	-	835	875	-	37	35	- 5
Vermont.....	-	848	875	-	200	190	- 5
Massachusetts.....	-	925	960	-	74	71	- 4
Rhode Island.....	-	925	965	-	9.8	9.4	- 4
Connecticut.....	-	895	915	-	64	64	0
New York.....	864	929	925	1,066	1,095	1,037	- 5
New Jersey.....	904	950	995	111	104	100	- 4
Pennsylvania.....	814	870	895	701	688	677	- 2
Ohio.....	805	865	885	522	496	476	- 4
Indiana.....	778	810	850	319	297	289	- 3
Illinois.....	797	870	880	423	394	365	- 7
Michigan.....	806	845	840	510	515	480	- 7
Wisconsin.....	870	925	910	1,855	1,938	1,827	- 6
Minnesota.....	863	895	880	1,096	1,114	1,035	- 7
Iowa.....	739	750	790	606	561	521	- 7
Missouri.....	598	640	650	376	351	333	- 5
North Dakota.....	696	740	720	183	172	148	-14
South Dakota.....	600	625	625	144	142	131	- 8
Nebraska.....	645	650	645	196	178	163	- 8
Kansas.....	589	635	645	185	172	159	- 8
Delaware.....	-	785	790	-	17.3	17.4	+ 1
Maryland.....	687	715	740	147	146	149	+ 2
Virginia.....	581	635	640	185	178	174	- 2
West Virginia.....	485	505	530	58	52	51	- 2
North Carolina.....	548	600	610	142	140	138	- 1
South Carolina.....	453	500	520	46	44	43	- 2
Georgia.....	434	500	530	87	86	85	- 1
Florida.....	619	680	705	113	120	125	+ 4
Kentucky.....	539	610	660	262	265	271	+ 2
Tennessee.....	472	500	520	227	223	222	0
Alabama.....	391	440	460	89	86	84	- 2
Mississippi.....	356	390	415	117	105	105	0
Arkansas.....	446	515	535	89	84	82	- 2
Louisiana.....	-	410	435	-	84	85	+ 1
Oklahoma.....	577	625	655	133	119	119	0
Texas.....	503	597	625	270	276	272	- 1
Montana.....	618	620	630	45	40	39	- 2
Idaho.....	804	815	805	157	145	136	- 6
Wyoming.....	622	635	640	17.6	16.3	16.0	- 2
Colorado.....	669	710	700	77	75	72	- 4
New Mexico.....	-	640	675	-	26	27	+ 4
Arizona.....	-	905	935	-	46	48	+ 4
Utah.....	764	800	830	70	68	68	0
Nevada.....	712	850	880	10.8	12.0	12.0	0
Washington.....	897	905	980	205	193	204	+ 6
Oregon.....	796	835	855	120	108	106	- 2
California.....	935	975	990	753	765	763	0
Alaska.....	707	775	775	1.88	1.78	1.63	- 8
Hawaii.....	800	860	880	11.1	13.1	14.0	+ 7
United States.....	728	782	794	12,347	12,206	11,707	- 4.1

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.

#### May milk production continues 4 percent below 1965

May milk production nationally is estimated at 11,707 million pounds, 4 percent less than a year earlier and the smallest May output since 1940. May is usually the peak production month, but the seasonal peak has become less pronounced in recent years. Milk output has been 4 percent or more below year-earlier levels for each of the last 7 months. On a daily average basis, production advanced 4 percent from April to May, about the same seasonal increase as in 1965. May milk output provided 1.92 pounds per person daily, compared with 2.03 pounds a year earlier.

Milk production in May was below a year earlier in 36 States, with decreases of 3 percent or more in all North Central States. Declines in the North Atlantic States except Connecticut also contributed to the U. S. reduction.

#### Production per cow continues to make small gain

Milk output averaged 794 pounds per cow for May, up 1.5 percent from a year earlier. In recent years, year-to-year increases in rates per cow have slowed in early-summer peak production months. May output per cow was below a year earlier in 8 States, but set new record highs in 39. The average daily rate was 25.6 pounds per cow during May compared with 24.5 pounds in April and 25.2 pounds in May 1965.

New Jersey continued to lead in output per cow with 995 pounds in May, followed by California, Washington, Rhode Island, and Massachusetts.

#### Grain fed per cow up 7 percent

Grain and concentrates fed on June 1 averaged 8.9 pounds per milk cow, up 7 percent from a year earlier. Feeding rates increased from a year earlier in all but 10 States. Grain and concentrates fed averaged 10 or more pounds per cow in 13 States on June 1. Only 6 States reached that level a year earlier.

#### Milk-feed price ratio up 10 percent

The May milk-feed price ratio was 1.41. This was 3 percent below the ratio of 1.45 a month earlier, but 10 percent above May last year. These changes in the ratio resulted primarily from shifts in wholesale milk prices. They were 12 cents lower than in April, but 43 cents higher than a year earlier. In cream-selling areas, the milkfat-feed price ratio, at 24.1, was unchanged from April and compared with 22.5 for May last year.

#### Pastures on June 1 better than last year

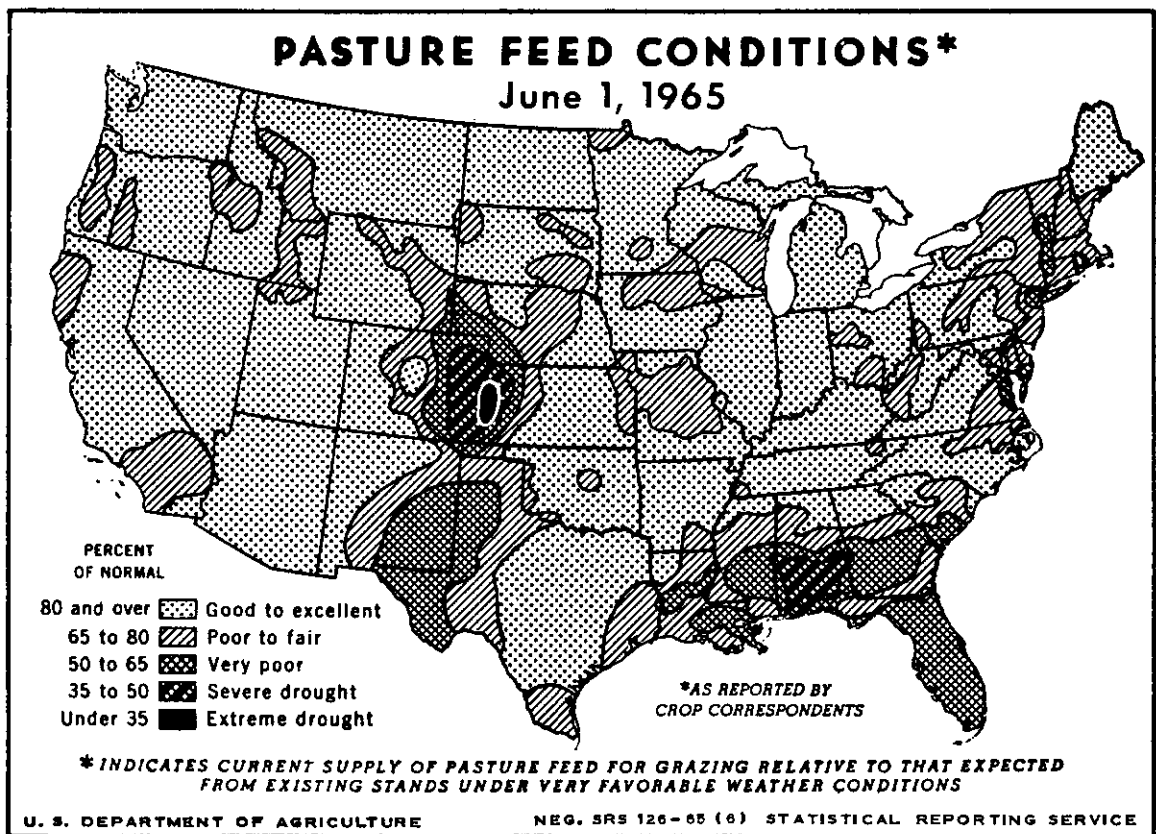
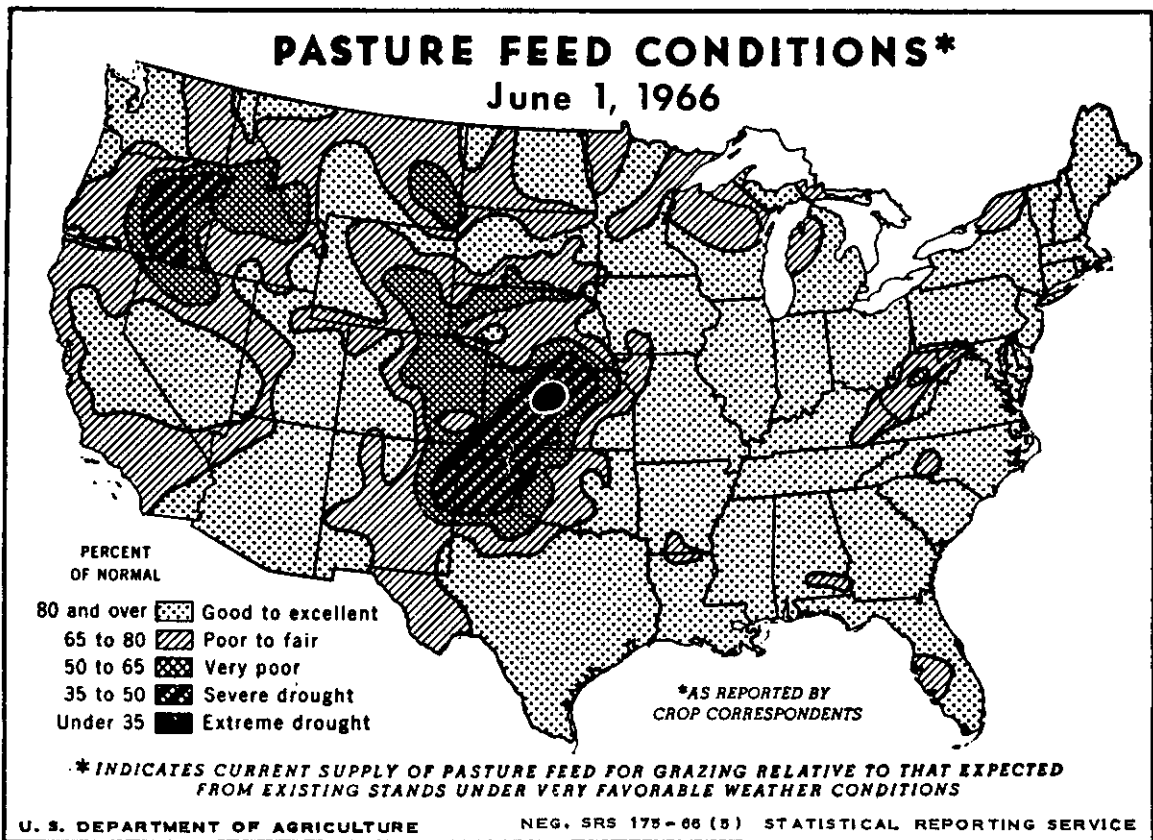
U. S. dairy pasture condition on June 1 averaged 84 percent of normal -- 2 percentage points above a year earlier, but unchanged from the June 1, 1960-64 average. In the eastern half of the United States, pasture condition averaged above both a month and a year earlier. In contrast, pastures in the western half developed slowly during May, and condition at the end of the month was generally below a month and a year earlier. Large drought areas developed in eastern Oregon, the Oklahoma-Texas Panhandle area, most of central Kansas, and part of Nebraska. Temperatures averaged below normal early in May, with freezing temperatures from Iowa to New Jersey on the 10th and 11th. May precipitation averaged generally below normal except in the Southeast and Gulf Coast areas.

Pasture feed developed rapidly during May in the North Atlantic and South Atlantic States. Conditions in all these States except West Virginia averaged 80 percent or more of normal on June 1. This was generally above the May 1 condition and also above June 1 a year ago. New England dairymen reported cattle obtaining 79 percent of roughage requirements from pastures by June 1. Roughage in other Eastern areas was reported adequate to abundant. Pastures in West Virginia were in good condition early in May, but freezing temperatures on May 10 and 11 and limited May rainfall slowed growth.

In the South Central States, except Oklahoma, reported pasture feed condition improved from a month ago. Mild temperatures and timely rainfall improved the growing environment seasonally. On June 1, many areas reported surplus forage and grasses were being cut for hay. Oklahoma pastures improved in the eastern half of the State but deteriorated in the west. The State average was 1 percentage point less than a month earlier and 18 points below June 1 last year. Drought conditions developed in the Oklahoma-Texas Panhandle area, but was relieved by early June rains.

In the North Central States, pastures were in excellent condition on June 1 east of the Dakotas, Nebraska and Kansas. Condition in this tier of States was below a year earlier and in Nebraska and Kansas was down 20 percentage points from May 1. During May, drought conditions developed in central Kansas and extended into Nebraska. Nebraska's cool season grasses got off to a poor start

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and summer grasses have not made much growth. Pastures did not have the usual green color and the forage supplied was limited. Soil moisture supplies in Kansas were critically short on June 1. To alleviate some of the feed shortage, farmers turned stock onto wheat fields abandoned because of freeze damage. Lack of rainfall has caused some ponds to become low and others dry.

Pastures deteriorated during May in the Western States with Nevada being the exception -- up 3 percentage points. Condition was down 20 points from May 1 in Colorado, 18 in Wyoming, and 10 in Oregon. Below-normal precipitation generally prevailed. Pastures generally were not furnishing the normal amount of feed, and some farmers were still feeding hay and grain. Some livestock were being culled from herds, and in some areas, herds were being moved from dry-land to irrigated pastures and hayland.

Table 3.-Dairy pasture feed condition, as percentage of normal, June 1, 1966, with comparisons <sup>1/</sup>

State and division	June 1, av. 1960-64	June 1, 1965	June 1, 1966	State and division	June 1, av. 1960-64	June 1, 1965	June 1, 1966
	Percent	Percent	Percent		Percent	Percent	Percent
Me. ....	90	83	88	N. C. ....	78	88	90
N. H. ....	90	73	85	S. C. ....	73	76	89
Vt. ....	92	73	87	Ga. ....	75	70	91
Mass. ....	88	70	85	Fla. ....	66	52	86
R. I. ....	89	80	87	S. Atl. ..	76	81	88
Conn. ....	86	74	85	Ky. ....	83	90	93
N. Y. ....	86	76	88	Tenn. ....	79	90	92
N. J. ....	77	71	88	Ala. ....	74	62	90
Pa. ....	81	82	89	Miss. ....	73	67	92
N. Atl. ....	85	77	88	Ark. ....	75	87	91
Ohio.....	86	84	91	La. ....	65	70	89
Ind. ....	89	89	94	Okla. ....	75	88	70
Ill. ....	89	89	92	Tex. ....	67	83	84
Mich. ....	91	91	85	S. Cent. .	74	82	86
Wis. ....	90	79	80	Mont. ....	82	89	74
E. N. Cent. .	89	85	86	Idaho.....	88	86	77
Minn. ....	90	86	84	Wyo. ....	81	80	69
Iowa.....	91	85	88	Colo. ....	69	64	67
Mo. ....	83	78	89	N. Mex. ....	60	66	63
N. Dak. ....	80	87	80	Ariz. ....	84	92	84
S. Dak. ....	84	83	76	Utah.....	81	85	81
Nebr. ....	83	75	66	Nev. ....	79	89	79
Kans. ....	75	80	57	Wash. ....	85	87	85
W. N. Cent. .	86	83	80	Oreg. ....	89	85	77
Del. ....	77	73	94	Calif. ....	80	89	76
Md. ....	78	80	86	West. ....	81	85	77
Va. ....	78	92	91	U. S. ....	84	82	84
W. Va. ....	76	82	76				

<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, 1966, with comparisons

State	June 1, av. 1960-64	June 1, 1965	June 1, 1966	State	June 1, av. 1960-64	June 1, 1965	June 1, 1966
	Lb.	Lb.	Lb.		Lb.	Lb.	Lb.
Maine.....	7.9	9.7	10.0	West Virginia.....	4.4	5.6	5.7
New Hampshire...	7.1	9.8	11.2	North Carolina....	7.4	8.6	8.5
Vermont.....	6.7	8.8	9.2	South Carolina....	5.7	6.0	8.0
Massachusetts...	8.3	10.5	11.4	Georgia.....	7.0	9.8	10.0
Rhode Island....	9.0	10.5	11.7	Florida.....	5.1	6.5	8.0
Connecticut.....	8.5	10.0	11.5	Kentucky.....	5.6	6.5	7.1
New York.....	7.7	9.3	9.5	Tennessee.....	5.6	6.2	6.5
New Jersey.....	8.6	10.1	10.2	Alabama.....	6.0	8.0	8.0
Pennsylvania....	9.4	11.0	11.6	Mississippi.....	4.1	6.3	7.5
Ohio.....	7.8	9.0	9.8	Arkansas.....	5.1	7.3	8.3
Indiana.....	7.5	9.2	9.3	Louisiana.....	5.1	7.7	8.5
Illinois.....	7.0	9.0	8.5	Oklahoma.....	7.0	8.0	9.0
Michigan.....	8.2	8.9	9.3	Texas.....	4.6	5.0	5.5
Wisconsin.....	6.8	8.5	9.2	Montana.....	5.0	6.7	6.7
Minnesota.....	7.6	8.9	10.5	Idaho.....	5.6	6.3	6.3
Iowa.....	7.2	8.3	8.4	Wyoming.....	4.4	4.7	5.1
Missouri.....	6.6	8.0	8.0	Colorado.....	6.6	8.8	8.2
North Dakota....	6.9	8.4	8.3	New Mexico.....	6.5	8.8	9.0
South Dakota....	5.6	5.9	7.1	Arizona.....	6.6	8.5	10.5
Nebraska.....	6.5	6.2	6.0	Utah.....	6.7	6.5	7.0
Kansas.....	6.9	8.2	8.3	Nevada.....	6.7	9.3	9.0
Delaware.....	8.6	10.0	11.2	Washington.....	6.4	6.9	7.2
Maryland.....	8.5	9.7	10.9	Oregon.....	5.6	6.5	6.6
Virginia.....	7.4	8.6	9.1	California.....	7.3	9.0	10.5
				United States.....	6.9	8.3	8.9

Table 5.-Average milk price received by farmers and value of concentrate ration fed to milk cows, by regions, May 1966, with comparisons

Region	Milk price per 100 pounds				Ration value per 100 pounds			
	May av. 1960-64	May 1965	April 1966	May 1966	May av. 1960-64	May 1965	April 1966	May 1966
	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.
N. Atl. ....	4.09	4.10	4.79	4.55	3.55	3.54	3.58	3.56
E. N. Cent. ..	3.50	3.61	4.20	4.13	2.71	2.83	2.88	2.90
W. N. Cent. ..	3.25	3.35	3.81	3.77	2.38	2.56	2.50	2.52
S. Atl. ....	5.11	5.11	5.61	5.46	3.34	3.40	3.43	3.44
S. Cent. ....	4.23	4.27	4.90	4.76	3.09	3.12	3.18	3.18
West. ....	4.11	4.22	4.51	4.40	3.17	3.18	3.20	3.19
U. S.								
Milk areas....	3.83	3.90	4.45	4.33	2.97	3.04	3.07	3.07
Cream areas...	-	-	-	-	2.48	2.62	2.58	2.60
Milk and cream areas.....	-	-	-	-	2.94	3.02	3.05	3.06

Table 6.-Milk-feed and milkfat-feed price ratios, by regions, May 1966, with comparisons

Region	Milk-feed ratio 1/				Milkfat-feed ratio 2/			
	May av. 1960-64	May 1965	April 1966	May 1966	May av. 1960-64	May 1965	April 1966	May 1966
N. Atl. ....	1.15	1.16	1.34	1.28	-	-	-	-
E. N. Cent. ..	1.29	1.28	1.46	1.42	20.6	19.9	20.5	20.2
W. N. Cent. ..	1.37	1.31	1.52	1.50	25.7	23.3	25.3	25.3
S. Atl. ....	1.53	1.50	1.64	1.59	-	-	-	-
S. Cent. ....	1.37	1.37	1.54	1.50	16.6	16.8	16.6	16.6
West. ....	1.30	1.33	1.41	1.38	18.4	18.3	18.9	19.0
U. S. ....	1.29	1.28	1.45	1.41	24.1	22.5	24.1	24.1

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, 1965-66 WINTER FEEDING SEASON

There were 3.4 tons of roughage (hay equivalent) fed per milk cow during the 1965-66 winter season, compared with 3.5 tons a year earlier, according to the Crop Reporting Board.

### Hay feeding rate declines

Milk cows were fed an average of 2.3 tons of hay during the 1965-66 winter feeding period, compared with 2.4 tons a year earlier. Regionally, the hay feeding rate declined in the East North Central, West North Central, South Atlantic, and West, but was unchanged in the North Atlantic and South Central. The hay feeding rate varied from 2.5 tons per cow in the North Atlantic and East North Central Regions to 1.3 tons in the South Atlantic. By States, the feeding rates ranged from 4.4 tons in Idaho down to 0.9 ton in Mississippi.

Of all hay fed, alfalfa or alfalfa mixtures dominated in all regions, and accounted for 75 percent of the national total. Clover or mixed clover hay followed in popularity, with 11 percent of the total. Lespedeza hay represented 2 percent and Coastal Bermuda 1 percent. Other hays not classified accounted for the remainder. Clover or mixed clover was fed in each region, but provided the largest proportion in the North and South Atlantic Regions. Lespedeza, Coastal Bermuda hay, and "other hays not classified" were important sources of roughage in the South Atlantic and South Central Regions. Lespedeza hay was a particularly important roughage source in North Carolina, Kentucky, Tennessee, Alabama, Mississippi, and Arkansas. Coastal Bermuda made up 57 percent of the hay fed in South Carolina, 46 percent in Georgia, 20 percent in Alabama, and 25 percent in Louisiana.

### Feeding of silage increased

Milk cows were fed 3.3 tons of silage per head during the 1965-66 winter feeding season, up from the 3.2 tons a year earlier. 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. By regions, silage feeding rates ranged from 1.5 tons in the South Central to 4.6 in the South Atlantic. In the North and South Atlantic, West North Central, and South Central Regions, feeding rates were higher than a year ago, while in the East North Central and West, rates were down slightly. Delaware-Maryland combined, at 6.0 tons, led the States in silage fed per cow, followed by New Jersey, North Carolina, Virginia, South Carolina, and Indiana, with rates of more than 5.0 tons per cow.

Corn was the leading kind of silage fed in all regions and amounted to 83 percent of the total, the same as a year earlier. Grass declined as a silage feed, representing 9 percent of the silage total, compared with 10 percent in the 1964-65 feeding season. However, grass silage provided a substantial portion of the silage fed in North Atlantic, East North Central, and Western Regions. During the 1965-66 season, "silage not classified" made up 3 percent of the total silage fed, compared with 2 percent the previous season.

### Hay values hold steady

Reported values of hay fed to milk cows on February 1, at \$27.30 per ton, averaged close to the \$27.31 per ton a year earlier. Values were up in the North Atlantic and East North Central Regions, but were down in other regions. Hay values ranged from \$17.50 in North Dakota to \$44.00 in New Jersey. Based on the number of reports, 89 percent of the dairymen were feeding baled hay, 4 percent chopped hay, and 7 percent loose hay. The loose method of handling hay was popular in the Northern Plains, Northwestern and South Atlantic States. Chopped hay feeding was represented by only a minor percentage of the reports in most States, but ranged from 7 to 14 percent in Michigan, Nevada, and Wisconsin.

Table 7.-Hay and silage fed per milk cow in herds kept by dairy reporters, winter feeding period ending in May, by States, 1965; and 1966 <sup>1/</sup>

State and division	Hay		Silage		Hay equivalent of all roughage <sup>2/</sup>	
	1965	1966	1965	1966	1965	1966
	Tons	Tons	Tons	Tons	Tons	Tons
Me., N. H., Vt. ....	2.8	3.0	2.5	2.7	3.7	3.9
Mass., R. I., Conn. ..	2.1	2.2	3.6	4.1	3.3	3.6
N. Y. ....	2.8	2.8	3.6	3.9	4.0	4.1
N. J. ....	1.9	2.0	4.5	5.8	3.5	3.9
Pa. ....	2.0	1.9	3.6	3.9	3.2	3.2
N. Atl. ....	2.5	2.5	3.5	3.9	3.7	3.8
Ohio.....	2.4	2.1	4.0	4.3	3.7	3.5
Ind. ....	2.2	2.4	4.5	5.1	3.7	4.1
Ill. ....	2.6	2.2	4.2	3.9	4.0	3.5
Mich. ....	2.6	2.2	4.4	3.8	4.0	3.5
Wis. ....	2.7	2.7	4.4	4.2	4.2	4.1
E. N. Cent. ....	2.6	2.5	4.3	4.2	4.0	3.8
Minn. ....	2.8	2.7	3.6	3.5	4.0	3.9
Iowa. ....	2.6	2.0	2.5	3.7	3.4	3.2
Mo. ....	2.1	2.1	3.3	3.2	3.2	3.2
N. Dak. ....	3.2	2.8	2.4	1.7	4.0	3.4
S. Dak. ....	2.6	2.3	4.5	4.1	4.1	3.7
Nebr. ....	2.1	2.2	1.9	1.5	2.7	2.7
Kans. ....	2.3	2.3	4.2	3.9	3.8	3.6
W. N. Cent. ....	2.5	2.4	3.2	3.3	3.6	3.5
Del., Md.....	1.7	1.6	5.4	6.0	3.5	3.6
Va. ....	1.4	1.7	4.6	5.2	3.0	3.4
W. Va. ....	1.8	2.2	4.2	3.5	3.2	3.4
N. C. ....	1.1	1.2	3.0	5.2	2.1	2.9
S. C. ....	1.3	1.2	4.6	5.1	2.9	2.9
Ga. ....	1.7	1.1	3.2	3.5	2.8	2.2
Fla. ....	a/	a/	a/	a/	a/	a/
S. Atl. ....	1.4	1.3	3.6	4.6	2.6	2.9
Ky. ....	2.1	2.0	1.8	2.2	2.7	2.8
Tenn. ....	1.5	1.5	1.7	1.4	2.1	2.0
Ala. ....	1.0	1.4	1.5	a/	1.5	2.1
Miss. ....	1.0	0.9	0.8	a/	1.2	1.3
Ark. ....	1.8	2.1	1.1	a/	2.1	2.4
La. ....	1.6	1.5	1.5	2.0	2.1	2.1
Okla. ....	2.3	2.3	1.4	1.4	2.7	2.8
Tex. ....	2.2	2.4	1.3	a/	2.6	2.7
S. Cent. ....	1.8	1.8	1.4	1.5	2.2	2.3
Mont. ....	3.4	3.3	0.9	0.9	3.7	3.6
Idaho.....	4.0	4.4	3.1	2.1	5.0	5.1
Wyo. ....	3.1	3.4	2.0	a/	3.8	3.8
Colo. ....	3.8	2.7	3.8	2.8	5.1	3.7
N. Mex. ....	3.3	2.9	2.4	a/	4.1	3.6
Ariz. ....	2.9	2.4	2.7	a/	3.8	3.1
Utah.....	4.4	3.7	3.0	3.3	5.4	4.8
Nev. ....	4.5	3.9	1.5	a/	5.0	4.3
Wash. ....	2.8	2.7	2.7	2.3	3.7	3.4
Oreg. ....	2.2	2.2	3.7	3.9	3.4	3.5
Calif. ....	3.1	3.1	1.1	1.4	3.5	3.6
West. ....	3.2	3.1	2.0	1.9	3.9	3.8
U. S. ....	2.4	2.3	3.2	3.3	3.5	3.4

<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, 1965 and 1966 <sup>1/</sup>

State and division	Alfalfa or mixed alfalfa		Clover or mixed clover		Lespedeza		Coastal bermuda		Other	
	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Me., N. H., Vt. ....	30	38	51	52	-	-	-	-	19	10
Mass., R. I., Conn. ....	43	51	42	34	-	-	-	-	15	15
N. Y. ....	59	66	24	16	-	-	-	-	17	18
N. J. ....	80	82	16	11	-	-	-	-	4	7
Pa. ....	47	60	35	24	-	-	-	-	18	16
N. Atl. ....	51	59	32	25	-	-	-	-	17	16
Ohio.....	75	81	20	14	-	-	-	-	5	5
Ind. ....	82	81	16	9	-	-	-	-	2	10
Ill. ....	90	87	8	9	-	-	-	-	2	4
Mich. ....	92	91	6	7	-	-	-	-	2	2
Wis. ....	90	86	9	12	-	-	-	-	1	2
E. N. Cent. ....	88	86	10	11	-	-	-	-	2	3
Minn. ....	89	90	8	5	-	-	-	-	3	5
Iowa.....	87	90	13	7	-	-	-	-	-	3
Mo. ....	68	75	7	5	9	7	-	-	16	13
N. Dak. ....	58	64	2	2	-	-	-	-	40	34
S. Dak. ....	85	91	1	-	-	-	-	-	14	9
Nebr. ....	89	93	2	1	-	-	-	-	9	6
Kans. ....	84	85	3	1	-	-	-	-	13	14
W. N. Cent. ....	83	86	7	4	1	1	-	-	9	9
Del., Md. ....	59	61	38	33	1	1	-	1	2	4
Va. ....	62	53	23	23	4	2	-	-	11	22
W. Va. ....	79	74	18	21	-	-	-	-	3	5
N. C. ....	24	21	20	22	22	22	6	8	28	27
S. C. ....	6	8	-	2	7	9	51	57	36	24
Ga. ....	6	1	4	9	4	10	36	46	50	34
Fla. ....	a/	a/	a/	a/	a/	a/	a/	a/	a/	a/
S. Atl. ....	40	41	19	23	5	6	12	13	24	17
Ky. ....	65	68	12	10	16	14	-	-	7	8
Tenn. ....	31	25	22	26	29	26	-	-	18	23
Ala. ....	7	5	9	11	9	21	11	20	64	43
Miss. ....	6	5	21	22	27	18	1	2	45	53
Ark. ....	41	31	3	10	5	16	-	1	51	42
La. ....	10	16	9	11	2	2	23	25	56	46
Okla. ....	61	60	1	-	2	4	2	2	34	34
Tex. ....	56	47	1	1	1	1	11	8	31	43
S. Cent. ....	45	41	9	10	11	12	5	5	30	32
Mont. ....	85	90	10	5	-	-	-	-	5	5
Idaho.....	97	98	2	2	-	-	-	-	1	-
Wyo. ....	91	91	4	3	-	-	-	-	5	6
Colo. ....	99	84	-	1	-	-	-	-	1	15
N. Mex. ....	98	100	-	-	-	-	-	-	2	-
Ariz. ....	a/	100	a/	-	-	-	-	-	a/	-
Utah.....	96	95	3	2	-	-	-	-	1	3
Nev. ....	100	100	-	-	-	-	-	-	-	-
Wash. ....	66	82	24	15	-	-	-	-	10	3
Oreg. ....	64	77	23	14	-	-	-	-	13	9
Calif. ....	94	95	1	1	-	-	-	-	5	4
West. ....	90	92	5	4	-	-	-	-	5	4
U. S. ....	74	75	13	11	2	2	1	1	10	11

<sup>1/</sup> 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, 1965 and 1966 <sup>1/</sup>

State and division	Corn silage		Grass silage		Sorghum silage		Other silage	
	1965	1966	1965	1966	1965	1966	1965	1966
	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Me., N. H., Vt. ....	81	78	14	16	-	-	5	6
Mass., R. I., Conn. ...	81	89	13	10	-	-	6	1
N. Y. ....	86	87	11	9	-	-	3	4
N. J. ....	91	83	7	5	2	4	-	8
Pa. ....	87	87	10	9	-	-	3	4
N. Atl. ....	86	86	11	10	-	-	3	4
Ohio.....	74	83	26	16	-	-	-	1
Ind. ....	83	79	11	14	4	1	2	6
Ill. ....	86	80	6	8	5	3	3	9
Mich. ....	89	90	10	9	-	-	1	1
Wis. ....	85	88	14	11	-	-	1	1
E. N. Cent. ....	84	86	14	12	1	-	1	2
Minn. ....	93	92	2	4	1	2	4	2
Iowa.....	83	76	11	18	3	2	3	4
Mo. ....	88	83	9	6	3	10	-	1
N. Dak. ....	100	97	-	1	-	1	-	1
S. Dak. ....	85	79	5	6	10	12	-	3
Nebr. ....	49	46	12	-	38	49	1	5
Kans. ....	43	39	3	-	54	61	-	-
W. N. Cent. ....	84	80	5	7	9	11	2	2
Del., Md. ....	85	84	4	7	5	2	6	7
Va. ....	98	93	1	1	-	4	1	2
W. Va. ....	85	97	15	3	-	-	-	-
N. C. ....	90	91	1	2	3	7	6	-
S. C. ....	68	76	-	2	32	19	-	3
Ga. ....	81	84	-	1	14	14	5	1
S. Atl. ....	86	88	3	3	6	5	5	4
Ky. ....	95	98	2	-	3	2	-	-
Tenn. ....	84	82	11	10	3	6	2	2
Ala. ....	74	74	-	1	26	24	-	1
Okla. ....	26	17	3	-	65	75	6	8
S. Cent. ....	65	65	5	2	28	31	2	2
Mont. ....	90	89	-	8	1	-	9	3
Idaho.....	83	79	6	12	1	-	10	9
Colo. ....	97	91	3	-	-	7	-	2
Utah. ....	88	94	-	-	12	5	-	1
Wash. ....	29	27	55	58	-	-	16	15
Oreg. ....	55	52	43	41	-	-	2	7
Calif. ....	95	96	3	1	-	3	2	-
West. ....	73	75	18	16	4	4	5	5
U. S. ....	83	83	10	9	5	5	2	3

<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, 1965 and 1966 <sup>1/</sup>

State and division	Value per ton				Number of reports as percentage of total					
	Baled		All <sup>2/</sup>		Baled		Chopped		Loose	
	1965	1966	1965	1966	1965	1966	1965	1966	1965	1966
	Dol.	Dol.	Dol.	Dol.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Me., N. H., Vt. ....	33.50	38.00	33.00	37.50	95	92	4	5	1	3
Mass., R. I., Conn. ....	42.00	43.50	41.50	43.50	92	97	3	3	5	0
N. Y. ....	32.50	31.50	32.50	31.50	95	97	3	1	2	2
N. J. ....	43.50	44.50	43.50	44.00	98	97	2	2	0	1
Pa. ....	35.00	35.00	35.00	35.00	98	98	1	1	1	1
N. Atl. ....	34.31	34.63	34.15	34.48	96	96	2	2	2	2
Ohio.....	26.00	27.50	26.00	27.50	93	95	3	2	4	3
Ind. ....	26.50	26.00	26.00	26.00	94	97	4	2	2	1
Ill. ....	25.00	24.00	24.50	24.00	95	95	4	4	1	1
Mich. ....	21.00	22.00	21.00	22.00	89	89	8	7	3	4
Wis. ....	25.00	27.50	24.50	27.00	87	82	10	14	3	4
E. N. Cent. ....	24.57	26.07	24.20	25.83	90	89	7	8	3	3
Minn. ....	23.50	21.50	23.50	21.00	92	90	2	2	6	8
Iowa.....	20.50	24.00	20.50	23.50	92	94	2	5	6	1
Mo. ....	25.50	24.50	25.50	24.50	96	94	2	4	2	2
N. Dak. ....	20.50	18.50	19.50	17.50	63	65	3	1	34	34
S. Dak. ....	23.50	19.50	21.00	19.00	56	57	4	6	40	37
Nebr. ....	21.50	20.00	20.00	19.00	57	55	6	6	37	39
Kans. ....	24.00	19.50	23.50	19.00	89	89	2	2	9	9
W. N. Cent. ....	22.79	21.70	22.23	21.29	83	83	3	4	14	13
Del., Md. ....	40.00	39.50	40.00	39.00	97	95	1	3	2	2
Va. ....	39.50	35.50	39.00	35.50	92	92	0	3	8	5
W. Va. ....	37.00	35.00	36.00	34.00	74	81	2	-	24	19
N. C. ....	34.50	32.50	34.00	32.00	92	88	2	2	6	10
S. C. ....	33.00	33.00	31.50	32.00	84	90	2	1	14	9
Ga. ....	30.00	30.50	30.00	30.50	96	97	2	2	2	1
Fla. <sup>3/</sup> .....	-	-	33.00	31.00	-	-	-	-	-	-
S. Atl. ....	36.70	34.94	36.31	34.37	89	90	1	2	10	8
Ky. ....	31.00	28.00	30.50	27.50	89	90	1	1	10	9
Tenn. ....	30.00	30.00	30.00	30.00	91	93	1	1	8	6
Ala. ....	31.00	31.00	31.00	30.50	80	88	10	4	10	8
Miss. ....	23.50	26.50	23.50	26.50	85	90	8	5	7	5
Ark. ....	26.00	25.00	25.50	25.00	95	93	0	3	5	4
La. ....	25.00	26.00	24.50	26.00	96	97	2	1	2	2
Okla. ....	24.50	23.00	24.50	25.00	94	95	3	2	3	3
Tex. ....	31.00	29.00	30.50	29.00	94	94	3	2	3	4
S. Cent. ....	28.68	27.65	28.34	27.48	90	92	3	2	7	6
Mont. ....	26.00	24.00	25.50	23.00	75	74	5	3	20	23
Idaho.....	23.00	23.50	22.50	23.50	90	94	6	1	4	5
Wyo. ....	25.00	24.50	24.00	24.00	76	78	4	2	20	20
Colo. ....	31.50	24.00	30.50	24.00	87	90	1	5	12	5
N. Mex. ....	35.00	30.00	35.00	29.50	93	94	7	6	0	-
Ariz. ....	33.50	31.00	33.00	31.00	96	100	2	0	2	0
Utah.....	27.00	28.00	26.50	27.50	90	88	4	8	6	4
Nev. ....	28.50	26.50	27.50	26.50	82	83	12	13	6	4
Wash. ....	27.50	28.00	27.00	28.00	94	93	3	2	3	5
Oreg. ....	27.00	27.00	26.50	27.00	88	87	5	5	7	8
Calif. ....	32.00	31.50	31.50	31.50	95	96	4	2	1	2
West. ....	29.26	28.68	28.91	28.47	89	90	4	3	7	7
U. S. ....	27.67	27.57	27.31	27.30	88.5	88.6	3.8	4.0	7.7	7.4

<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.

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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, 1965 and 1966 <sup>1/</sup>

State and division	1965	1966	State and division	1965	1966
	Percent	Percent		Percent	Percent
Me., N. H., Vt. ....	12	13	S. C. ....	23	8
Mass., R. I., Conn. ..	14	23	Ga. ....	37	12
N. Y. ....	9	9	S. Atl. ....	19	10
N. J. ....	19	14	Ky. ....	7	3
Pa. ....	9	9	Tenn. ....	13	7
N. Atl. ....	10	11	Ala. ....	23	13
Ohio.....	7	7	Miss. ....	8	9
Ind. ....	7	13	Ark. ....	48	45
Ill. ....	6	6	La. ....	31	18
Mich. ....	4	6	Okla. ....	35	40
Wis. ....	5	6	Tex. ....	67	45
E. N. Cent. ....	5	7	S. Cent. ....	32	24
Minn. ....	6	3	Mont. ....	27	34
Iowa.....	4	6	Idaho.....	25	23
Mo. ....	17	8	Wyo. ....	12	29
N. Dak. ....	5	4	Colo. ....	65	49
S. Dak. ....	9	5	N. Mex. ....	84	96
Nebr. ....	14	14	Ariz. ....	91	87
Kans. ....	10	12	Utah.....	34	39
W. N. Cent. ....	8	6	Nev. ....	49	40
Del., Md. ....	13	6	Wash. ....	51	55
Va. ....	12	5	Oreg. ....	58	47
W. Va. ....	30	16	Calif. ....	85	87
N. C. ....	12	6	West. ....	64	64
			U. S. ....	18.4	17.6

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