

MILK PRODUCTION

NOVEMBER 1969

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November milk production slightly below a year earlier

U. S. milk production during November is estimated at 8,688 million pounds, 0.4 percent below a year earlier. Daily average production in November was down 2 percent from October compared with a 1 percent decrease a year earlier. November output provided 1.42 pounds of milk per person for all uses--compared with 1.45 pounds a month earlier and 1.44 pounds a year earlier. Daily average production January through November 1969 was 0.7 percent less than in 1968.

November production equaled or exceeded a year earlier in most North and South Atlantic States except New Jersey where it was down 3 percent and Delaware, down 4 percent. In the North Central Region, production advanced slightly in Ohio but declined in all other States. In the South Central and West, production was up in 11 States, unchanged in 2 States and down elsewhere.

November rate per cow up 2 percent from a year earlier

November milk output per cow was 2 percent above a year earlier, a smaller gain than in September and October which were 4 and 3 percent above a year earlier. Daily output per cow in November was 23.1 pounds, 2 percent less than October compared with a 1 percent decrease from October to November in 1968. November production per cow was record high in 42 States--highest in California at 925 pounds; followed by Arizona, 890 pounds; Hawaii, 840 pounds; Connecticut, 835 pounds and Massachusetts, 830 pounds.

Milk-feed price ratio 1 percent above a year earlier

The November milk-feed price ratio at 1.87 was 1 percent above a year earlier. The seasonal increase from October to November was 1 percent, this year, the same gain as a year earlier. The ratio was highest in the South Atlantic Region and lowest in the North Atlantic Region.

Grain and concentrate feeding up 5 percent from a year earlier

Grain and concentrates fed on December 1 averaged 11.1 pounds per milk cow--up 5 percent from a year earlier and a record high for the date. Feeding rates were above a year earlier in 37 States and averaged 11 or more pounds per cow in 24 States. Eighteen States were feeding 11 or more pounds of grain and concentrate per cow a year earlier.

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| Special in this issue FORAGE FED TO MILK COWS --- 1969 SUMMER FEEDING SEASON |
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FORAGE FED TO MILK COWS, 1969 SUMMER FEEDING SEASON

Summer feeding of forage up from 1968

Feeding of forage to milk cows in the 1969 summer season (June-September) averaged 1.23 tons of hay equivalent per cow compared to 1.11 tons a year earlier. Summer forage feeding increased from a year ago except in the West and continued heaviest in the Western and Eastern North Central Regions. These feeding rates represent averages per milk cow on farms that fed some forage in the summer. Rates are based differently for the winter feeding season, when nearly all milk cows are fed forage.

Summer feeding of silage was 1.11 tons per cow, up from the 0.94 ton fed a year earlier. Feeding rates for silage were highest in the East North Central and South Atlantic States, and were above a year earlier in all regions. Use of green feed increased this year--0.86 ton per cow compared with 0.71 ton a year earlier. Hay feeding was about the same as a year earlier--0.57 ton compared with 0.56 ton in 1968. Hay feeding rates were down in the West, unchanged in the South Central and North Atlantic Regions, but up elsewhere.

Alfalfa leading kind of hay

Alfalfa or alfalfa mixtures accounted for 82 percent of the hay fed to milk cows in the summer of 1969--up two percentage points from a year earlier. Alfalfa hay predominated in all regions. Highest share of alfalfa hay was fed

(Comments continued on page 7)

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

| Month | Milk per cow | | | Milk production | | | Change :from 1968 |
|-----------------------|--------------|-------|------|-----------------|---------|---------|----------------------|
| | 1967 | 1968 | 1969 | 1967 | 1968 | 1969 | |
| | Pounds | | | Million pounds | | | Percent |
| January | 713 | 721 | 735 | 9,802 | 9,546 | 9,407 | - 1.5 |
| February | 667 | 698 | 689 | 9,150 | 9,207 | 8,795 | - 4.5 |
| March | 762 | 773 | 784 | 10,407 | 10,169 | 9,983 | - 1.8 |
| April | 784 | 797 | 807 | 10,675 | 10,457 | 10,261 | - 1.9 |
| May..... | 837 | 858 | 869 | 11,360 | 11,227 | 11,046 | - 1.6 |
| June | 817 | 832 | 850 | 11,038 | 10,840 | 10,766 | - 0.7 |
| July | 767 | 785 | 804 | 10,326 | 10,201 | 10,165 | - 0.4 |
| August | 722 | 738 | 761 | 9,688 | 9,567 | 9,612 | + 0.5 |
| September | 681 | 699 | 724 | 9,114 | 9,035 | 9,126 | + 1.0 |
| October | 687 | 707 | 727 | 9,169 | 9,120 | 9,150 | + 0.3 |
| November | 660 | 678 | 692 | 8,781 | 8,721 | 8,688 | - 0.4 |
| Jan.-Nov. Total | --- | --- | --- | 109,510 | 108,090 | 106,999 | - 1.0 |
| December | 698 | 716 | | 9,259 | 9,191 | | |
| Annual | 8,797 | 9,006 | | 118,769 | 117,281 | | |

Table 2.--November milk per cow and milk production, by States

| State | Milk per cow ^{1/} | | | Milk production | | | |
|----------------------|----------------------------|------|------|-----------------|-------|-------|------------------|
| | 1967 | 1968 | 1969 | 1967 | 1968 | 1969 | Change from 1968 |
| | Pounds | | | Million pounds | | | Percent |
| Maine | 660 | 655 | 695 | 46 | 45 | 47 | + 4 |
| New Hampshire | 725 | 730 | 765 | 28 | 28 | 29 | + 4 |
| Vermont | 645 | 675 | 705 | 136 | 140 | 145 | + 4 |
| Massachusetts | 780 | 800 | 830 | 56 | 54 | 55 | + 2 |
| Rhode Island | 750 | 760 | 780 | 6.5 | 6.0 | 6.0 | 0 |
| Connecticut | 795 | 825 | 835 | 54 | 54 | 54 | 0 |
| New York | 730 | 750 | 755 | 772 | 768 | 769 | 0 |
| New Jersey | 785 | 790 | 805 | 65 | 61 | 59 | - 3 |
| Pennsylvania | 715 | 740 | 760 | 526 | 537 | 551 | + 3 |
| Ohio | 720 | 730 | 750 | 348 | 343 | 344 | 0 |
| Indiana | 710 | 735 | 745 | 186 | 182 | 180 | - 1 |
| Illinois | 685 | 700 | 720 | 233 | 228 | 222 | - 3 |
| Michigan | 725 | 770 | 760 | 353 | 359 | 356 | - 1 |
| Wisconsin | 680 | 680 | 680 | 1,303 | 1,271 | 1,246 | - 2 |
| Minnesota | 665 | 670 | 700 | 717 | 699 | 695 | - 1 |
| Iowa | 650 | 670 | 655 | 385 | 371 | 342 | - 8 |
| Missouri | 590 | 600 | 600 | 230 | 225 | 218 | - 3 |
| North Dakota | 455 | 460 | 450 | 75 | 69 | 63 | - 9 |
| South Dakota | 520 | 540 | 535 | 108 | 107 | 103 | - 4 |
| Nebraska | 555 | 575 | 590 | 121 | 118 | 116 | - 2 |
| Kansas | 615 | 640 | 640 | 133 | 134 | 130 | - 3 |
| Delaware | 680 | 720 | 740 | 10.9 | 10.8 | 10.4 | - 4 |
| Maryland | 690 | 750 | 760 | 119 | 127 | 128 | + 1 |
| Virginia | 585 | 590 | 610 | 139 | 135 | 136 | + 1 |
| West Virginia | 485 | 500 | 530 | 34 | 33 | 33 | 0 |
| North Carolina | 620 | 640 | 660 | 122 | 122 | 125 | + 2 |
| South Carolina | 555 | 585 | 600 | 41 | 42 | 42 | 0 |
| Georgia | 605 | 615 | 660 | 85 | 85 | 93 | + 9 |
| Florida | 685 | 655 | 660 | 125 | 119 | 120 | + 1 |
| Kentucky | 465 | 480 | 495 | 175 | 173 | 172 | - 1 |
| Tennessee | 450 | 475 | 515 | 154 | 153 | 159 | + 4 |
| Alabama | 455 | 470 | 490 | 67 | 66 | 67 | + 2 |
| Mississippi | 400 | 415 | 425 | 86 | 85 | 83 | - 2 |
| Arkansas | 500 | 530 | 530 | 53 | 53 | 51 | - 4 |
| Louisiana | 440 | 470 | 505 | 82 | 83 | 87 | + 5 |
| Oklahoma | 665 | 665 | 700 | 104 | 102 | 105 | + 3 |
| Texas | 645 | 660 | 720 | 244 | 232 | 242 | + 4 |
| Montana..... | 570 | 580 | 610 | 28 | 26 | 26 | 0 |
| Idaho | 685 | 690 | 680 | 106 | 108 | 105 | - 3 |
| Wyoming | 620 | 635 | 650 | 12.4 | 12.1 | 12.4 | + 2 |
| Colorado | 670 | 670 | 680 | 66 | 67 | 69 | + 3 |
| New Mexico | 685 | 685 | 675 | 26 | 26 | 25 | - 4 |
| Arizona | 865 | 870 | 890 | 44 | 45 | 46 | + 2 |
| Utah | 760 | 790 | 800 | 57 | 60 | 62 | + 3 |
| Nevada | 760 | 790 | 785 | 10.3 | 10.9 | 10.9 | 0 |
| Washington | 750 | 800 | 810 | 146 | 148 | 149 | + 1 |
| Oregon | 620 | 630 | 655 | 71 | 71 | 70 | - 1 |
| California | 870 | 915 | 925 | 679 | 715 | 717 | 0 |
| Alaska | 755 | 790 | 795 | 1.36 | 1.34 | 1.35 | + 1 |
| Hawaii | 820 | 810 | 840 | 11.8 | 10.8 | 11.0 | + 2 |
| United States | 660 | 678 | 692 | 8,781 | 8,721 | 8,688 | - 0.4 |

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

Table 3.--Grain and other concentrates fed daily per milk cow in herd kept by reporters, December 1, by States

| State | 1967 | 1968 | 1969 | State | 1967 | 1968 | 1969 |
|---------------|--------|------|------|----------------|--------|------|------|
| | Pounds | | | | Pounds | | |
| Maine | 11.0 | 11.5 | 12.2 | West Virginia | 7.6 | 7.5 | 7.6 |
| New Hampshire | 11.0 | 10.8 | 11.0 | North Carolina | 9.8 | 9.5 | 10.3 |
| Vermont | 10.5 | 10.2 | 10.6 | South Carolina | 9.0 | 10.0 | 11.4 |
| Massachusetts | 11.5 | 12.2 | 12.9 | Georgia | 11.0 | 12.5 | 12.0 |
| Rhode Island | 11.5 | 12.2 | 12.5 | Florida | 10.0 | 10.0 | 11.0 |
| Connecticut | 12.2 | 12.9 | 13.5 | | | | |
| New York | 10.9 | 11.3 | 11.6 | Kentucky | 8.7 | 9.7 | 8.3 |
| New Jersey | 11.6 | 12.1 | 12.3 | Tennessee | 7.3 | 8.4 | 9.2 |
| Pennsylvania | 12.4 | 13.2 | 13.5 | Alabama | 11.0 | 10.5 | 11.0 |
| | | | | Mississippi | 9.0 | 9.0 | 11.0 |
| Ohio | 11.9 | 11.8 | 13.0 | Arkansas | 9.0 | 10.7 | 10.2 |
| Indiana | 11.7 | 11.8 | 12.6 | Louisiana | 10.1 | 10.5 | 10.8 |
| Illinois | 10.1 | 11.0 | 11.5 | Oklahoma | 11.0 | 11.2 | 12.6 |
| Michigan | 11.2 | 11.6 | 10.8 | Texas | 9.0 | 9.8 | 13.0 |
| Wisconsin | 9.2 | 10.0 | 10.2 | | | | |
| | | | | Montana | 6.7 | 7.4 | 8.5 |
| Minnesota | 10.4 | 10.6 | 10.9 | Idaho | 7.6 | 8.1 | 8.0 |
| Iowa | 9.0 | 10.6 | 10.2 | Wyoming | 5.1 | 6.5 | 7.5 |
| Missouri | 8.6 | 9.7 | 10.9 | Colorado | 10.2 | 10.5 | 9.7 |
| North Dakota | 9.2 | 9.5 | 9.9 | New Mexico | 11.0 | 11.0 | 10.5 |
| South Dakota | 8.0 | 8.6 | 3.9 | Arizona | 10.5 | 9.0 | 11.0 |
| Nebraska | 8.4 | 8.5 | 3.0 | Utah | 8.5 | 8.6 | 9.3 |
| Kansas | 9.8 | 10.5 | 11.4 | Nevada | 10.0 | 11.0 | 10.0 |
| | | | | Washington | 9.8 | 10.3 | 11.4 |
| Delaware | 12.5 | 12.7 | 13.4 | Oregon | 8.0 | 9.7 | 8.9 |
| Maryland | 12.4 | 12.8 | 13.4 | California | 11.5 | 12.0 | 12.5 |
| Virginia | 10.4 | 10.0 | 10.7 | United States | 10.1 | 10.6 | 11.1 |

Table 4.--Milk-feed price ratios, milk prices, and ration values, by regions 1/

| Region | Milk-feed price ratio 2/ | | | All milk price per cwt. | | | Ration value 3/ | | |
|-------------|--------------------------|-----------|-----------|-------------------------|-----------|-----------|-----------------|-----------|-----------|
| | Nov. 1968 | Oct. 1969 | Nov. 1969 | Nov. 1968 | Oct. 1969 | Nov. 1969 | Nov. 1968 | Oct. 1969 | Nov. 1969 |
| | Pounds | | | Dollars | | | | | |
| N. Atl. | 1.78 | 1.80 | 1.78 | 6.41 | 6.52 | 6.53 | 3.61 | 3.63 | 3.66 |
| E. N. Cent. | 1.86 | 1.85 | 1.88 | 5.33 | 5.47 | 5.54 | 2.86 | 2.96 | 2.95 |
| W. N. Cent. | 1.92 | 1.90 | 1.94 | 4.81 | 5.00 | 5.07 | 2.51 | 2.63 | 2.62 |
| S. Atl. | 2.03 | 1.97 | 2.00 | 6.82 | 6.81 | 6.95 | 3.36 | 3.46 | 3.48 |
| S. Cent. | 1.99 | 1.93 | 1.98 | 6.38 | 6.40 | 6.58 | 3.21 | 3.31 | 3.32 |
| West. | 1.72 | 1.73 | 1.79 | 5.39 | 5.46 | 5.66 | 3.13 | 3.16 | 3.16 |
| U. S. | 1.86 | 1.85 | 1.87 | 5.68 | 5.80 | 5.88 | 3.05 | 3.13 | 3.14 |

1/ Data for current month are preliminary.

2/ Pounds of concentrate ration equal in value to 1 pound wholesale milk.

3/ Value per 100 pounds of concentrate ration fed to milk cows.

Table 5.--Hay, silage, and green feed fed per milk cow in herds kept by dairy reporters, summer feeding season, 1968 and 1969 1/

| State and division | Hay | | Silage | | Green feed 2/ | | Hay equiv. of all forage fed 3/ | |
|------------------------|------|------|--------|------|---------------|------|---------------------------------|------|
| | 1968 | 1969 | 1968 | 1969 | 1968 | 1969 | 1968 | 1969 |
| | Tons | | | | | | | |
| Me., N. H., & Vt. ... | .3 | .3 | .4 | .5 | .7 | .7 | .7 | .7 |
| Mass., R. I., & Conn.: | .3 | .3 | 1.0 | 1.2 | .5 | .7 | .8 | .9 |
| N. Y. | .3 | .3 | 1.0 | 1.1 | .5 | .5 | .8 | .8 |
| N. J. | .5 | .4 | 1.2 | 1.4 | 1.8 | 2.0 | 1.5 | 1.5 |
| Pa. | .6 | .6 | 1.2 | 1.2 | .8 | 1.0 | 1.3 | 1.3 |
| N. Atl. | .41 | .41 | 1.01 | 1.08 | .67 | .76 | .97 | 1.02 |
| Ohio | .3 | .5 | 1.2 | 1.6 | .8 | 1.1 | 1.0 | 1.4 |
| Ind. | .3 | .4 | 1.0 | 1.6 | a/ | a/ | .9 | 1.2 |
| Ill. | .3 | .5 | 1.2 | 1.6 | .7 | .7 | .9 | 1.3 |
| Mich. | .5 | .6 | 1.4 | 1.6 | 1.4 | 1.1 | 1.4 | 1.5 |
| Wis. | .3 | .4 | 1.3 | 1.5 | 1.0 | 1.6 | 1.1 | 1.4 |
| E. N. Cent. | .33 | .45 | 1.27 | 1.54 | .98 | 1.35 | 1.08 | 1.41 |
| Minn. | .5 | .5 | .8 | .9 | .5 | .5 | .9 | 1.0 |
| Iowa | .4 | .5 | .9 | 1.2 | .7 | .8 | .9 | 1.2 |
| Mo. | .4 | .4 | .8 | .8 | .5 | a/ | .8 | .8 |
| N. Dak. | .5 | .6 | a/ | a/ | a/ | a/ | .9 | 1.0 |
| S. Dak. | .5 | .6 | .8 | 1.3 | .7 | a/ | 1.0 | 1.3 |
| Nebr. | .6 | .4 | .8 | 1.3 | a/ | a/ | 1.1 | 1.0 |
| Kans. | .3 | .3 | a/ | a/ | a/ | a/ | .6 | .7 |
| W. N. Cent. | .46 | .47 | .78 | .95 | .55 | .58 | .90 | .98 |
| Del. & Md. | .4 | .3 | 1.0 | 1.5 | 1.5 | 1.5 | 1.2 | 1.3 |
| Va. | .2 | .3 | 1.5 | 1.8 | .5 | .5 | .9 | 1.1 |
| W. Va. | .4 | .3 | a/ | a/ | a/ | a/ | .9 | .9 |
| N. C. | .3 | .3 | 1.7 | 2.0 | a/ | a/ | 1.0 | 1.2 |
| S. C. | .3 | .3 | 1.0 | 1.2 | .6 | .8 | .8 | 1.0 |
| Ga. | .3 | .5 | 1.1 | 1.5 | a/ | a/ | .9 | 1.3 |
| Fla. | a/ | a/ | a/ | a/ | a/ | a/ | a/ | a/ |
| S. Atl. | .31 | .33 | 1.09 | 1.35 | .71 | .79 | .91 | 1.04 |
| Ky. | .2 | .3 | 1.2 | 1.4 | .7 | a/ | .8 | 1.0 |
| Tenn. | .3 | .3 | 1.0 | 1.2 | a/ | a/ | .8 | .9 |
| Ala. | .3 | .4 | 1.2 | 1.4 | .5 | a/ | .9 | 1.1 |
| Miss. | .2 | .3 | a/ | a/ | 1.0 | a/ | .8 | .9 |
| Ark. | .3 | .3 | a/ | a/ | a/ | a/ | .5 | .7 |
| La. | .2 | .2 | a/ | a/ | a/ | a/ | .5 | .6 |
| Okla. | .6 | .6 | a/ | a/ | a/ | a/ | .9 | .9 |
| Texas | .7 | .6 | a/ | a/ | .6 | a/ | .9 | .9 |
| S. Cent. | .42 | .42 | .59 | .70 | .61 | .68 | .82 | .88 |
| Mont. | 1.0 | .8 | a/ | a/ | a/ | a/ | 1.3 | 1.2 |
| Idaho | 1.1 | 1.4 | a/ | a/ | a/ | a/ | 1.3 | 1.8 |
| Wyo. | 1.1 | 1.1 | a/ | a/ | -- | -- | 1.4 | 1.5 |
| Colo. | 1.2 | 1.5 | 1.2 | a/ | a/ | a/ | 1.7 | 1.8 |
| N. Mex. | 1.4 | 1.3 | a/ | a/ | 1.4 | a/ | 2.0 | 1.9 |
| Ariz. | 1.5 | 1.1 | a/ | a/ | a/ | a/ | 1.8 | 1.5 |
| Utah | 1.5 | 1.2 | .6 | a/ | a/ | a/ | 1.9 | 1.6 |
| Nev. | 1.1 | 1.5 | a/ | a/ | a/ | a/ | 1.2 | 1.7 |
| Wash. | .7 | .9 | .5 | a/ | .6 | a/ | 1.1 | 1.4 |
| Oreg. | .6 | .5 | a/ | a/ | a/ | a/ | .9 | .9 |
| Calif. | 2.0 | 1.7 | .5 | .5 | .5 | .5 | 2.3 | 2.0 |
| West. | 1.58 | 1.43 | .53 | .58 | .49 | .51 | 1.92 | 1.79 |
| U. S. | .56 | .57 | .94 | 1.11 | .71 | .86 | 1.11 | 1.23 |

1/ Based on tonnage fed during the June-September summer feeding season as reported on November 1, divided by number of milk cows on farms where some kind of forage was fed.

2/ Legumes, grasses, small grains, corn, sorghum, etc. cut and fed green.

3/ Using 3 tons of silage or green feed as equivalent to 1 ton of hay. Does not include pasture or grazing of crop residues.

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

Table 6.--Hay: Percentage, by kinds, fed to milk cows in herds kept by dairy reporters, summer feeding season, 1968 and 1969 1/

| State and division | Alfalfa or mixed alfalfa | | Clover or mixed clover | | Lespedeza | | Coastal Bermuda | | Other | |
|-------------------------|--------------------------|------|------------------------|------|-----------|------|-----------------|------|-------|------|
| | 1968 | 1969 | 1968 | 1969 | 1968 | 1969 | 1968 | 1969 | 1968 | 1969 |
| | Percent | | | | | | | | | |
| Me., N. H., Vt. | 47 | 45 | 46 | 51 | -- | -- | -- | -- | 7 | 4 |
| Mass., R. I., Conn. ... | 38 | 40 | 52 | 52 | -- | -- | -- | -- | 10 | 8 |
| N. Y. | 55 | 62 | 19 | 27 | -- | -- | -- | -- | 16 | 11 |
| N. J. | 81 | 82 | 12 | 8 | -- | -- | -- | -- | 7 | 10 |
| Pa. | 52 | 58 | 32 | 31 | -- | -- | -- | -- | 16 | 11 |
| N. Atl. | 57 | 58 | 29 | 32 | -- | -- | -- | -- | 14 | 10 |
| Ohio | 70 | 72 | 22 | 24 | -- | -- | -- | -- | 8 | 4 |
| Ind. | 81 | 89 | 18 | 7 | -- | -- | -- | -- | 1 | 4 |
| Ill. | 92 | 89 | 7 | 10 | -- | -- | -- | -- | 1 | 1 |
| Mich. | 90 | 96 | 8 | 4 | -- | -- | -- | -- | 2 | -- |
| Wis. | 93 | 89 | 6 | 8 | -- | -- | -- | -- | 1 | 3 |
| E. N. Cent. | 89 | 88 | 9 | 10 | -- | -- | -- | -- | 2 | 2 |
| Minn. | 83 | 92 | 12 | 2 | -- | -- | -- | -- | 5 | 6 |
| Iowa | 93 | 92 | 4 | 4 | -- | -- | -- | -- | 3 | 4 |
| Mo. | 85 | 87 | 2 | 1 | 1 | -- | -- | -- | 12 | 12 |
| N. Dak. | 86 | 84 | -- | -- | -- | -- | -- | -- | 14 | 16 |
| S. Dak. | 93 | 94 | -- | -- | -- | -- | -- | -- | 7 | 6 |
| Nebr. | 97 | 94 | -- | -- | -- | -- | -- | -- | 3 | 6 |
| Kans. | 95 | 92 | -- | -- | -- | -- | -- | -- | 5 | 8 |
| W. N. Cent. | 87 | 91 | 7 | 2 | -- | -- | -- | -- | 6 | 7 |
| Del., Md. | 61 | 63 | 39 | 31 | -- | -- | -- | -- | -- | 6 |
| Va. | 57 | 54 | 26 | 31 | 1 | 2 | -- | -- | 16 | 13 |
| W. Va. | 25 | 23 | 59 | 58 | -- | -- | -- | -- | 16 | 19 |
| N. C. | 25 | 20 | 36 | 37 | 11 | 12 | 10 | 10 | 18 | 21 |
| S. C. | 6 | 2 | 1 | -- | 3 | 2 | 75 | 68 | 15 | 28 |
| Ga. | 7 | 1 | -- | 2 | 6 | 5 | 61 | 65 | 26 | 27 |
| Fla. | a/ | a/ | a/ | a/ | a/ | a/ | a/ | a/ | a/ | a/ |
| S. Atl. | 36 | 30 | 28 | 23 | 4 | 4 | 19 | 25 | 13 | 18 |
| Ky. | 57 | 49 | 37 | 34 | 3 | 9 | -- | -- | 3 | 8 |
| Tenn. | 56 | 49 | 23 | 25 | 16 | 13 | -- | -- | 5 | 13 |
| Ala. | 6 | 6 | 1 | -- | 4 | 11 | 38 | 35 | 51 | 48 |
| Miss. | 11 | 8 | 15 | 21 | 38 | 21 | 6 | 18 | 30 | 32 |
| Ark. | 33 | 31 | 18 | 19 | 18 | 18 | 2 | 1 | 29 | 31 |
| La. | 37 | 29 | 5 | 1 | 5 | 5 | 18 | 24 | 35 | 41 |
| Okla. | 83 | 78 | 4 | -- | 4 | 4 | -- | -- | 9 | 18 |
| Texas | 67 | 62 | -- | -- | -- | -- | 4 | 10 | 29 | 28 |
| S. Cent. | 59 | 52 | 7 | 8 | 6 | 6 | 5 | 9 | 23 | 25 |
| Mont. | 100 | 100 | -- | -- | -- | -- | -- | -- | -- | -- |
| Idaho | 99 | 99 | 1 | 1 | -- | -- | -- | -- | -- | -- |
| Wyo. | 100 | 100 | -- | -- | -- | -- | -- | -- | -- | -- |
| Colo. | 98 | 100 | -- | -- | -- | -- | -- | -- | 2 | -- |
| N. Mex. | 97 | 98 | -- | -- | -- | -- | -- | -- | 3 | 2 |
| Ariz. | 95 | 99 | -- | -- | -- | -- | -- | -- | 5 | 1 |
| Utah | 98 | 100 | -- | -- | -- | -- | -- | -- | 2 | -- |
| Nev. | 100 | 100 | -- | -- | -- | -- | -- | -- | -- | -- |
| Wash. | 79 | 73 | 13 | 16 | -- | -- | -- | -- | 8 | 11 |
| Oreg. | 69 | 65 | 27 | 32 | -- | -- | -- | -- | 4 | 3 |
| Calif. | 93 | 98 | 4 | 1 | -- | -- | -- | -- | 3 | 1 |
| West. | 93 | 96 | 4 | 2 | -- | -- | -- | -- | 3 | 2 |
| U. S. | 80 | 82 | 11 | 10 | 1 | 1 | 1 | 1 | 7 | 6 |

1/ For June-September summer feeding period as reported November 1.

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

Table 7.-Silage: Percentage, by kinds, fed to milk cows in herds kept by dairy reporters, summer feeding season, 1968 and 1969 ^{1/}

| State and division | Corn Silage | | Grass Silage | | Sorghum Silage | | Other Silage | |
|-------------------------|---------------------|------|--------------|------|----------------|------|--------------|------|
| | 1968 | 1969 | 1968 | 1969 | 1968 | 1969 | 1968 | 1969 |
| | ----- Percent ----- | | | | | | | |
| Me., N.H., Vt. | 57 | 57 | 31 | 32 | -- | -- | 12 | 11 |
| Mass., R.I., Conn. | 53 | 57 | 30 | 29 | -- | -- | 17 | 14 |
| N. Y. | 57 | 53 | 39 | 44 | -- | -- | 4 | 3 |
| N. J. | 61 | 61 | 33 | 29 | -- | 2 | 6 | 8 |
| Pa. | 64 | 64 | 28 | 27 | -- | -- | 8 | 9 |
| N. Atl. | 60 | 58 | 33 | 35 | -- | -- | 7 | 7 |
| Ohio | 33 | 35 | 64 | 61 | -- | 1 | 3 | 3 |
| Ind. | 34 | 34 | 66 | 65 | -- | 1 | -- | -- |
| Ill. | 27 | 37 | 66 | 59 | 5 | -- | 2 | 4 |
| Mich. | 46 | 39 | 48 | 56 | 3 | -- | 3 | 5 |
| Wis. | 50 | 44 | 45 | 55 | -- | -- | 5 | 1 |
| E. N. Cent. | 44 | 41 | 51 | 57 | 1 | -- | 4 | 2 |
| Minn. | 67 | 53 | 28 | 41 | 2 | 3 | 3 | 3 |
| Iowa | 50 | 43 | 30 | 39 | -- | -- | 20 | 18 |
| S. Dak. | 58 | 59 | 28 | 22 | 3 | 12 | 11 | 7 |
| W. N. Cent. | 58 | 49 | 29 | 38 | 5 | 5 | 8 | 8 |
| S. Atl. | 59 | 65 | 23 | 18 | 2 | 5 | 16 | 12 |
| S. Cent. | 57 | 58 | 18 | 24 | 10 | 9 | 15 | 9 |
| West. | 67 | 68 | 20 | 21 | 3 | 3 | 10 | 8 |
| U. S. | 54 | 51 | 37 | 41 | 2 | 2 | 7 | 6 |

^{1/} For June-September summer feeding season, as reported on November 1. Data are shown only for those States where the reported amount fed was sufficient to provide a stable breakdown by kinds.

(Comments continued from page 2)

in the West, 96 percent; and was next highest in West North Central at 91 percent. Clover or clover mixtures represented 10 percent of all hay, down 1 percentage point from a year earlier. Lespedeza was relatively important in Tennessee, Mississippi and Arkansas but Coastal Bermuda predominated in South Carolina and Georgia. Six percent of the summer-fed hay fed was classified "other hay."

Corn silage most important

Corn silage accounted for 51 percent of all summer silage fed to milk cows, down 3 percentage points from a year earlier. Corn was the leading summer-fed silage except in the East North Central, where grass was the most important. Nationally, sorghum silage made up 2 percent and other silage 6 percent of the total.

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