

# MILK PRODUCTION

April 12, 1965

Special in this issue  
INTERSTATE MOVEMENT OF DAIRY CATTLE,  
SELECTED STATES, 1964, page 6

## SUMMARY

Milk production in the United States during March is estimated at 11,155 million pounds, one-half percent above a year earlier and 3 percent more than the 1959-63 average for the month. On a daily average basis, production increased 3 percent from February to March this year compared with a seasonal increase of 4 percent a year earlier. Milk production amounted to 1.85 pounds per person daily compared with 1.87 pounds in March 1964. Output per cow averaged 706 pounds in March, 3 percent above a year earlier and 14 percent more than the 1959-63 average for the month.

On April 1, reported condition of dairy pastures averaged 73 percent of normal for the United States -- 1 point above the same date last year but 3 points below the April 1 1959-63 average. As a result of heavy grazing and moisture shortages last fall, pastures entered winter in poor condition in many areas. Winter and early-spring precipitation has restored topsoil moisture but unusually cold weather in March delayed growth. On April 1 the reported rate of grain and concentrates fed per milk cow averaged 9.9 pounds, 5 percent more than a year earlier.

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

| Month          | Milk per cow       |        |        | Milk production    |                   |                   |                     |
|----------------|--------------------|--------|--------|--------------------|-------------------|-------------------|---------------------|
|                | Average<br>1959-63 | 1964   | 1965   | Average<br>1959-63 | 1964              | 1965              | Change<br>from 1964 |
|                | Pounds             | Pounds | Pounds | Million<br>Pounds  | Million<br>Pounds | Million<br>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    |        | 11,125             | 11,383            |                   |                     |
| May.....       | 710                | 767    |        | 12,314             | 12,356            |                   |                     |
| June.....      | 685                | 735    |        | 11,857             | 11,820            |                   |                     |
| July.....      | 629                | 678    |        | 10,869             | 10,874            |                   |                     |
| August.....    | 586                | 639    |        | 10,107             | 10,235            |                   |                     |
| September..... | 552                | 603    |        | 9,490              | 9,636             |                   |                     |
| October.....   | 555                | 608    |        | 9,536              | 9,700             |                   |                     |
| November.....  | 532                | 591    |        | 9,121              | 9,419             |                   |                     |
| December.....  | 564                | 628    |        | 9,651              | 9,991             |                   |                     |
| Annual.....    | 7,192              | 7,880  |        | 124,313            | 126,598           |                   |                     |

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

| State               | Monthly milk per cow <sup>1/</sup> |              |              | Milk production                   |                   |                   |                     |
|---------------------|------------------------------------|--------------|--------------|-----------------------------------|-------------------|-------------------|---------------------|
|                     | Mar. av.<br>1959-63 <sup>2/</sup>  | Mar.<br>1964 | Mar.<br>1965 | Mar. av.<br>1959-63 <sup>2/</sup> | Mar.<br>1964      | Mar.<br>1965      | Change<br>from 1964 |
|                     | Pounds                             | Pounds       | Pounds       | Million<br>pounds                 | Million<br>pounds | Million<br>pounds | Percent             |
| Maine.....          | -                                  | 725          | 730          | -                                 | 64                | 61                | - 5                 |
| New Hampshire.....  | -                                  | 740          | 745          | -                                 | 33                | 33                | 0                   |
| Vermont.....        | -                                  | 720          | 750          | -                                 | 175               | 177               | + 1                 |
| Massachusetts.....  | -                                  | 845          | 885          | -                                 | 71                | 71                | 0                   |
| Rhode Island.....   | -                                  | 825          | 865          | -                                 | 9.4               | 9.2               | - 2                 |
| Connecticut.....    | -                                  | 825          | 865          | -                                 | 61                | 63                | + 3                 |
| New York.....       | 749                                | 820          | 861          | 934                               | 984               | 1,024             | + 4                 |
| New Jersey.....     | 816                                | 885          | 905          | 104                               | 100               | 100               | 0                   |
| Pennsylvania.....   | 705                                | 780          | 795          | 618                               | 644               | 639               | - 1                 |
| Ohio.....           | 659                                | 763          | 760          | 441                               | 464               | 439               | - 5                 |
| Indiana.....        | 636                                | 735          | 740          | 270                               | 287               | 280               | - 2                 |
| Illinois.....       | 644                                | 755          | 780          | 361                               | 367               | 356               | - 3                 |
| Michigan.....       | 698                                | 780          | 760          | 447                               | 484               | 470               | - 3                 |
| Wisconsin.....      | 771                                | 826          | 855          | 1,654                             | 1,747             | 1,808             | + 3                 |
| Minnesota.....      | 826                                | 882          | 890          | 1,051                             | 1,116             | 1,126             | + 1                 |
| Iowa.....           | 609                                | 685          | 685          | 514                               | 536               | 527               | - 2                 |
| Missouri.....       | 445                                | 475          | 465          | 290                               | 276               | 259               | - 6                 |
| North Dakota.....   | 560                                | 610          | 585          | 153                               | 150               | 139               | - 7                 |
| South Dakota.....   | 512                                | 560          | 580          | 126                               | 130               | 135               | + 4                 |
| Nebraska.....       | 516                                | 555          | 550          | 164                               | 155               | 149               | - 4                 |
| Kansas.....         | 493                                | 545          | 555          | 163                               | 157               | 154               | - 2                 |
| Delaware.....       | -                                  | 665          | 660          | -                                 | 15.3              | 14.5              | - 5                 |
| Maryland.....       | 591                                | 635          | 640          | 128                               | 133               | 130               | - 2                 |
| Virginia.....       | 453                                | 490          | 500          | 149                               | 145               | 142               | - 2                 |
| West Virginia.....  | 402                                | 420          | 458          | 51                                | 46                | 48                | + 4                 |
| North Carolina..... | 475                                | 524          | 550          | 127                               | 128               | 130               | + 2                 |
| South Carolina..... | 432                                | 475          | 490          | 47                                | 45                | 44                | - 2                 |
| Georgia.....        | 407                                | 450          | 490          | 86                                | 83                | 85                | + 2                 |
| Florida.....        | 627                                | 685          | 690          | 117                               | 123               | 122               | - 1                 |
| Kentucky.....       | 386                                | 440          | 460          | 193                               | 203               | 203               | 0                   |
| Tennessee.....      | 339                                | 340          | 360          | 167                               | 157               | 163               | + 4                 |
| Alabama.....        | 308                                | 330          | 350          | 74                                | 69                | 69                | 0                   |
| Mississippi.....    | 280                                | 310          | 330          | 98                                | 89                | 90                | + 1                 |
| Arkansas.....       | 316                                | 350          | 375          | 68                                | 62                | 63                | + 2                 |
| Louisiana.....      | -                                  | 380          | 425          | -                                 | 81                | 88                | + 9                 |
| Oklahoma.....       | 469                                | 535          | 540          | 116                               | 108               | 104               | - 4                 |
| Texas.....          | 471                                | 530          | 575          | 267                               | 264               | 269               | + 2                 |
| Montana.....        | 463                                | 485          | 480          | 35                                | 33                | 32                | - 3                 |
| Idaho.....          | 689                                | 685          | 715          | 138                               | 127               | 130               | + 2                 |
| Wyoming.....        | 490                                | 510          | 520          | 14.5                              | 13.6              | 13.5              | - 1                 |
| Colorado.....       | 596                                | 670          | 660          | 72                                | 72                | 72                | 0                   |
| New Mexico.....     | -                                  | 600          | 600          | -                                 | 24                | 24                | 0                   |
| Arizona.....        | -                                  | 885          | 905          | -                                 | 46                | 48                | + 4                 |
| Utah.....           | 701                                | 700          | 720          | 66                                | 61                | 61                | 0                   |
| Nevada.....         | 634                                | 735          | 785          | 9.6                               | 10.3              | 11.2              | + 9                 |
| Washington.....     | 679                                | 700          | 710          | 158                               | 150               | 154               | + 3                 |
| Oregon.....         | 563                                | 580          | 580          | 88                                | 80                | 79                | - 1                 |
| California.....     | 858                                | 893          | 930          | 699                               | 707               | 732               | + 4                 |
| Alaska.....         | -                                  | 710          | 780          | -                                 | 1.85              | 1.79              | - 3                 |
| Hawaii.....         | -                                  | 800          | 880          | -                                 | 11.2              | 12.6              | +12                 |
| United States.....  | 622                                | 686          | 706          | 10,832                            | 11,099            | 11,155            | + 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.

### Cold March weather slowed milk production

Milk production in the United States during March is estimated at 11,155 million pounds, one-half percent above a year earlier and 3 percent more than the 1959-63 average for the month. The increase from a year earlier (daily basis) was the smallest in 8 months -- largely because of unusually cold, stormy weather in March. On a daily average basis, milk production increased 3 percent from February to March this year, compared with a seasonal advance of 4 percent a year earlier. Milk production amounted to 1.85 pounds per person daily compared with 1.87 pounds in March last year. For the first quarter of 1965, average daily milk production was about 1 percent above the corresponding period of 1964.

March milk production was above a year earlier in 4 of the 10 leading States-- New York, Wisconsin, Minnesota, and California, each with record high production for the month. New record highs for March were also set in Vermont, Louisiana, Arizona, Nevada, and Hawaii. Production declined from March 1964 in 22 States, but was unchanged in 8.

### March milk output per cow up 3 percent

During March 706 pounds of milk were produced per cow -- up 3 percent from the 686 pounds produced during March last year and 14 percent above the average for the month. Below normal temperatures during March limited milk output even though the grain feeding rate was up sharply. The 3-percent increase in daily output per cow from a year earlier was the smallest in several months. Seasonally, the daily rate of 22.8 pounds per cow was up 3 percent compared with a 5-percent gain from February to March last year. Production rates were at record high levels in 40 States during March. California with 930 pounds per cow was the leading State, followed by Arizona, New Jersey, Minnesota, and Massachusetts.

### Increased grain and concentrate feeding

On April 1 the reported rate of grain and concentrates fed per milk cow averaged 9.9 pounds. This is 5 percent more than the 9.4 pounds fed a year earlier and compares with the April 1 1959-63 average of 8.1 pounds. The feeding rate averaged 10 or more pounds per cow in 22 States compared with 15 States feeding 10 or more pounds on April 1 last year.

### Milk-feed price ratio slightly above March 1964

The March milk-feed price ratio averaged 1.37 -- up 1 percent from the 1.36 ratio for March 1964 but below the 1959-63 average for the month of 1.40. The ratio was down 4 percent from February compared with 3 percent decline a year earlier and the average seasonal decline of 3 percent. Compared with March a year ago, the more favorable ratio resulted from slightly higher wholesale milk prices with no change in the average value of concentrate rations. In cream-producing areas, the milkfat-feed price ratio averaged 22.6 compared with 23.1 for March last year and the average of 24.7 for the month.

### Prospects for dairy pastures below average on April 1

National prospects for pasture feed were relatively poor on April 1. Generally, pastures were heavily grazed in the fall months when unusually mild open weather persisted later than usual. As a result of heavy grazing, combined with moisture shortages in many areas, pastures went into the winter in poor condition. In most areas of the country, winter and early spring precipitation has restored topsoil

Table 3.-Grain and other concentrates fed daily per milk cow in herds kept by reporters, April 1, 1965, with comparisons

| State            | Apr. 1, av.<br>1959-63 | Apr. 1,<br>1964 | Apr. 1,<br>1965 | State              | Apr. 1, av.<br>1959-63 | Apr. 1,<br>1964 | Apr. 1,<br>1965 |
|------------------|------------------------|-----------------|-----------------|--------------------|------------------------|-----------------|-----------------|
|                  | Lb.                    | Lb.             | Lb.             |                    | Lb.                    | Lb.             | Lb.             |
| Maine.....       | 8.7                    | 9.9             | 10.8            | West Virginia..... | 5.7                    | 6.5             | 7.0             |
| New Hampshire... | 8.3                    | 9.9             | 11.5            | North Carolina.... | 7.9                    | 9.2             | 10.1            |
| Vermont.....     | 8.2                    | 8.8             | 10.0            | South Carolina.... | 6.7                    | 7.3             | 7.7             |
| Massachusetts... | 8.5                    | 10.0            | 11.7            | Georgia.....       | 7.2                    | 10.5            | 11.0            |
| Rhode Island.... | 9.7                    | 10.0            | 11.5            | Florida.....       | 6.1                    | 7.5             | 8.0             |
| Connecticut..... | 9.6                    | 10.0            | 12.3            | Kentucky.....      | 7.6                    | 8.5             | 8.8             |
| New York.....    | 9.7                    | 10.8            | 11.5            | Tennessee.....     | 6.5                    | 7.6             | 8.2             |
| New Jersey.....  | 9.9                    | 11.5            | 12.6            | Alabama.....       | 6.9                    | 8.0             | 9.0             |
| Pennsylvania.... | 10.1                   | 12.4            | 12.7            | Mississippi.....   | 5.7                    | 5.9             | 7.4             |
| Ohio.....        | 9.4                    | 11.6            | 11.2            | Arkansas.....      | 6.4                    | 7.4             | 8.9             |
| Indiana.....     | 8.7                    | 10.4            | 11.2            | Louisiana.....     | 5.7                    | 7.5             | 9.0             |
| Illinois.....    | 8.5                    | 9.5             | 10.2            | Oklahoma.....      | 7.3                    | 9.3             | 8.8             |
| Michigan.....    | 9.4                    | 11.2            | 10.9            | Texas.....         | 6.3                    | 6.5             | 6.5             |
| Wisconsin.....   | 8.8                    | 9.2             | 10.1            | Montana.....       | 5.7                    | 5.5             | 6.8             |
| Minnesota.....   | 9.4                    | 10.8            | 10.9            | Idaho.....         | 5.7                    | 6.3             | 6.8             |
| Iowa.....        | 9.3                    | 10.0            | 10.4            | Wyoming.....       | 5.5                    | 5.0             | 5.4             |
| Missouri.....    | 7.7                    | 8.9             | 8.9             | Colorado.....      | 6.7                    | 7.5             | 8.3             |
| North Dakota.... | 7.8                    | 9.2             | 9.9             | New Mexico.....    | 6.2                    | 8.0             | 8.3             |
| South Dakota.... | 6.6                    | 7.3             | 7.9             | Arizona.....       | 6.1                    | 8.0             | 8.5             |
| Nebraska.....    | 8.0                    | 8.9             | 10.0            | Utah.....          | 6.4                    | 7.6             | 7.6             |
| Kansas.....      | 8.1                    | 8.7             | 9.1             | Nevada.....        | 5.8                    | 7.6             | 8.2             |
| Delaware.....    | 9.3                    | 11.0            | 11.5            | Washington.....    | 7.3                    | 8.0             | 8.0             |
| Maryland.....    | 9.3                    | 10.9            | 10.8            | Oregon.....        | 5.8                    | 6.0             | 6.2             |
| Virginia.....    | 7.9                    | 10.0            | 10.2            | California.....    | 7.2                    | 8.5             | 9.0             |
|                  |                        |                 |                 | United States..... | 8.1                    | 9.4             | 9.9             |

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

| Region                    | Milk price per 100 pounds |              |              |              | Ration value per 100 pounds |              |              |              |
|---------------------------|---------------------------|--------------|--------------|--------------|-----------------------------|--------------|--------------|--------------|
|                           | Mar. av.<br>1959-63       | Mar.<br>1964 | Feb.<br>1965 | Mar.<br>1965 | Mar. av.<br>1959-63         | Mar.<br>1964 | Feb.<br>1965 | Mar.<br>1965 |
|                           | Dol.                      | Dol.         | Dol.         | Dol.         | Dol.                        | Dol.         | Dol.         | Dol.         |
| N. Atl. ....              | 4.64                      | 4.60         | 4.75         | 4.54         | 3.59                        | 3.54         | 3.58         | 3.57         |
| E. N. Cent. ..            | 3.70                      | 3.69         | 3.86         | 3.74         | 2.71                        | 2.79         | 2.81         | 2.83         |
| W. N. Cent. ..            | 3.39                      | 3.40         | 3.51         | 3.45         | 2.33                        | 2.47         | 2.52         | 2.52         |
| S. Atl. ....              | 5.54                      | 5.43         | 5.68         | 5.58         | 3.32                        | 3.43         | 3.38         | 3.39         |
| S. Cent. ....             | 4.73                      | 4.73         | 5.00         | 4.74         | 3.08                        | 3.16         | 3.12         | 3.13         |
| West. ....                | 4.41                      | 4.36         | 4.54         | 4.35         | 3.15                        | 3.20         | 3.17         | 3.17         |
| U. S.                     |                           |              |              |              |                             |              |              |              |
| Milk areas....            | 4.14                      | 4.12         | 4.29         | 4.15         | 2.97                        | 3.03         | 3.03         | 3.03         |
| Cream areas...            | -                         | -            | -            | -            | 2.45                        | 2.54         | 2.59         | 2.59         |
| Milk and cream areas..... | -                         | -            | -            | -            | 2.93                        | 3.01         | 3.01         | 3.02         |

Table 5.-Milk-feed and milkfat-feed price ratios, by regions, March 1965, with comparisons

| Region         | Milk-feed ratio 1/  |              |              |              | Milkfat-feed ratio 2/ |              |              |              |
|----------------|---------------------|--------------|--------------|--------------|-----------------------|--------------|--------------|--------------|
|                | Mar. av.<br>1959-63 | Mar.<br>1964 | Feb.<br>1965 | Mar.<br>1965 | Mar. av.<br>1959-63   | Mar.<br>1964 | Feb.<br>1965 | Mar.<br>1965 |
| N. Atl. ....   | 1.30                | 1.30         | 1.33         | 1.27         | -                     | -            | -            | -            |
| E. N. Cent. .. | 1.36                | 1.32         | 1.37         | 1.32         | 20.7                  | 19.5         | 19.8         | 19.6         |
| W. N. Cent. .. | 1.46                | 1.38         | 1.39         | 1.37         | 26.6                  | 24.2         | 23.7         | 23.6         |
| S. Atl. ....   | 1.67                | 1.58         | 1.68         | 1.65         | -                     | -            | -            | -            |
| S. Cent. ....  | 1.53                | 1.50         | 1.60         | 1.51         | 16.8                  | 16.4         | 16.5         | 16.5         |
| West. ....     | 1.40                | 1.36         | 1.43         | 1.37         | 18.9                  | 18.0         | 18.2         | 18.2         |
| U. S. ....     | 1.40                | 1.36         | 1.42         | 1.37         | 24.7                  | 23.1         | 22.7         | 22.6         |

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

2/ Pounds of concentrate ration equal in value to 1 pound of milkfat in cream sold by farmers.

(Continued from page 3)

moisture. However, temperatures averaged below normal for most of the Nation during March, slowing new growth in southern areas and delaying growth in the North.

On April 1, reported condition of dairy pastures averaged 73 percent of normal for the United States. This is 1 point above the same date last year, but 3 points below the April 1 1959-63 average. In northern areas, reported pasture condition on April 1 represents mainly prospects based on the current soil-moisture and weather situation.

In the South, pastures had begun to grow by April 1, but were generally late because of below normal temperatures. Pasture feed also was short because of drought conditions and heavy grazing last fall which left pastures in weakened condition. However, with adequate to abundant soil moisture in most areas rapid growth is expected this spring when temperatures moderate.

Pasture feed prospects varied sharply in the West, from areas where moisture shortages continued from last fall to areas of near ideal moisture conditions. However, spring growth has been delayed by lower than normal March temperatures. Roughage shortages and heavy supplemental feeding were reported in some areas.

In the North Central States, pasture grasses were generally dormant on April 1. Below normal temperatures persisted during most of March along with above normal precipitation. Spring pasture feed is expected later than usual.

In the North Atlantic States, farmers generally are looking forward to pasture feed as some areas report shortages of hay and silage. Pastures entered the winter with soil moisture shortages and a rather open winter resulted in some winter kill of improved pastures. Above normal precipitation was received in March, but below normal temperatures delayed development in the southern-most States of this region.

Table 6.-Dairy pasture feed condition, as percentage of normal, April 1, 1965, with comparisons <sup>1/</sup>

| State and division | Apr. 1, av. 1959-63 | Apr. 1, 1964 | Apr. 1, 1965 | State and division | Apr. 1, av. 1959-63 | Apr. 1, 1964 | Apr. 1, 1965 |
|--------------------|---------------------|--------------|--------------|--------------------|---------------------|--------------|--------------|
|                    | Percent             | Percent      | Percent      |                    | Percent             | Percent      | Percent      |
| Me. ....           | 94                  | 90           | 77           | N. C. ....         | 80                  | 81           | 82           |
| N. H. ....         | 93                  | 88           | 79           | S. C. ....         | 73                  | 76           | 79           |
| Vt. ....           | 97                  | 91           | 84           | Ga. ....           | 74                  | 76           | 79           |
| Mass. ....         | 94                  | 91           | 84           | Fla. ....          | 75                  | 78           | 83           |
| R. I. ....         | 95                  | 90           | 84           | S. Atl. ..         | 76                  | 78           | 80           |
| Conn. ....         | 91                  | 85           | 83           | Ky. ....           | 76                  | 74           | 72           |
| N. Y. ....         | 90                  | 91           | 84           | Tenn. ....         | 76                  | 75           | 72           |
| N. J. ....         | 80                  | 81           | 78           | Ala. ....          | 67                  | 65           | 69           |
| Pa. ....           | 83                  | 81           | 80           | Miss. ....         | 63                  | 67           | 65           |
| N. Atl. ....       | -                   | -            | -            | Ark. ....          | 71                  | 70           | 62           |
| Ohio.....          | 83                  | 77           | 79           | La. ....           | 67                  | 68           | 67           |
| Ind. ....          | 87                  | 83           | 78           | Okla. ....         | 76                  | 64           | 69           |
| Ill. ....          | 87                  | 82           | 78           | Tex. ....          | 68                  | 70           | 65           |
| Mich. ....         | 93                  | 89           | 91           | S. Cent. .         | 70                  | 68           | 67           |
| Wis. ....          | 91                  | 80           | 88           | Mont. ....         | 74                  | 78           | 80           |
| E. N. Cent. .      | -                   | -            | -            | Idaho.....         | 89                  | 86           | 84           |
| Minn. ....         | 88                  | 87           | 87           | Wyo. ....          | 80                  | 73           | 67           |
| Iowa.....          | 93                  | 84           | 85           | Colo. ....         | 84                  | 71           | 61           |
| Mo. ....           | 80                  | 71           | 72           | N. Mex. ....       | 78                  | 60           | 52           |
| N. Dak. ....       | 66                  | 68           | 72           | Ariz. ....         | 85                  | 74           | 90           |
| S. Dak. ....       | 77                  | 79           | 65           | Utah.....          | 83                  | 80           | 84           |
| Nebr. ....         | 87                  | 82           | 73           | Nev. ....          | 77                  | 80           | 86           |
| Kans. ....         | 86                  | 72           | 76           | Wash. ....         | 87                  | 86           | 78           |
| W. N. Cent. .      | 83                  | 72           | 74           | Oreg. ....         | 87                  | 85           | 73           |
| Del. ....          | 81                  | 84           | 80           | Calif. ....        | 77                  | 70           | 83           |
| Md. ....           | 81                  | 78           | 80           | West. ....         | 82                  | 76           | 79           |
| Va. ....           | 76                  | 78           | 80           | U. S. ....         | 76                  | 72           | 73           |
| W. Va. ....        | 76                  | 76           | 74           |                    |                     |              |              |

<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.

INTERSTATE MOVEMENT OF DAIRY CATTLE,  
SELECTED STATES, 1964

Dairy cattle inshipments to Northeastern States up 4 percent

Shipments of dairy cattle between and into 11 Northeastern States during 1964 totaled 86,908. This is 4 percent above the 83,441 received in 1963. Movement between States within the area totaled 45,139 in 1964, compared with 47,207 a year earlier. Nearly one-fourth of the in-area shipments in 1964 went to Massachusetts -- while Pennsylvania, Connecticut, and Vermont also received significant numbers from other Northeastern States. Inshipments from Canada to 11 Northeastern States totaled 23,956, up 17 percent from 1963. New York, Pennsylvania, and Vermont received the largest portions of the Canadian dairy cattle. Ohio, Michigan, Wisconsin, and Minnesota were important sources of dairy cattle moving into the Northeastern States -- shipping 12,911 in 1964 compared with 10,415 in 1963. Wisconsin was the primary source of the 4-State total.

From the 11-State area, outshipments totaled 62,580 in 1964 compared with 60,794 in 1963. Most of the outshipments were from New York, which accounted for nearly one-third of the total. Totals in this report do not include dairy-breed calves shipped to Italy, primarily for fattening as veal.

The difference between inshipments and outshipments resulted in net inshipments into the 11-State area in 1964, as well as in 1963. The resulting net total in 1964 was 24,328 compared with 22,647 in 1963. Pennsylvania had the largest net inshipments in 1964 -- 18,168 dairy cattle compared with 15,749 in 1963.

Cattle and calves shipped out of Wisconsin decline 17 percent

Cattle and calves shipped out of Wisconsin, primarily dairy breeds, totaled 138,762 during 1964. This is 17 percent below the year-earlier total of 168,036. The 11 Northeastern States received 12,064, compared with 9,148 in 1963. Iowa received 34,634 from Wisconsin in 1964, compared with 37,401 in 1963, and was by far the largest importer of Wisconsin cattle and calves. Nebraska, with 11,811, ranked second in importation of Wisconsin cattle and calves during 1964.

Dairy cattle inshipments to Florida down 11 percent

Shipments of dairy cattle into Florida totaled 27,025 during 1964. This is 11 percent below the 30,517 received in 1963. Tennessee provided the largest number of dairy cattle to Florida, with 1964 shipments of 6,515, down sharply from 8,801 in 1963. Dairy cattle shipped in from Mississippi totaled 4,589 in 1964 compared with 4,774 a year earlier. South Carolina's shipments to Florida were also less than in 1963. However, shipments to Florida from some other States increased sharply during 1964, with Wisconsin up 22 percent, Georgia up 38 percent, and Alabama up 17 percent.

Shipments of dairy cattle into California 25 percent larger

Dairy cattle shipped into California totaled 18,011 head -- 25 percent more than the 14,382 received in 1963. Shipments from Idaho totaled 4,809 and from Utah, 6,861. These two States supplied two-thirds of California's dairy cattle receipts. Other important sources were Arizona and Nevada.

Table 7.-Inshipments and outshipments of dairy cattle,  
11 Northeastern States, 1963-64

| State      | 1963             |                   |                    | 1964             |                   |                    |
|------------|------------------|-------------------|--------------------|------------------|-------------------|--------------------|
|            | Inship-<br>ments | Outship-<br>ments | Net<br>inshipments | Inship-<br>ments | Outship-<br>ments | Net<br>inshipments |
| Me. ....   | 634              | 4,128             | -3,494             | 1,077            | 3,969             | -2,892             |
| N. H. ...  | 3,029            | 3,992             | -963               | 2,281            | 3,672             | -1,391             |
| Vt. 1/...  | 8,119            | 6,042             | 2,077              | 8,180            | 3/7,001           | 1,179              |
| Mass. ...  | 14,723           | 4,729             | 9,994              | 13,572           | 4,631             | 8,941              |
| R. I. ...  | 2,873            | 836               | 2,037              | 2,954            | 820               | 2,134              |
| Conn. ...  | 6,458            | 4,861             | 1,597              | 6,590            | 4,290             | 2,300              |
| N. Y. ...  | 13,659           | 16,796            | -3,137             | 14,544           | 3/18,522          | -3,978             |
| N. J. .... | 9,974            | 4,739             | 5,235              | 11,212           | 3/4,700           | 6,512              |
| Pa. ....   | 19,330           | 3,581             | 15,749             | 21,999           | 3,831             | 18,168             |
| Md. ....   | 3,839            | 7,425             | -3,586             | 3,747            | 7,781             | -4,034             |
| Va. ....   | 803              | 3,665             | -2,862             | 752              | 3,363             | -2,611             |
| Total 2/   | 83,441           | 60,794            | 22,647             | 86,908           | 3/62,580          | 24,328             |

1/ Includes dairy cattle from Canada and other sources reshipped from Vermont to other States -- 800 in 1963, 600 in 1964.

2/ Includes movement between States within the Northeastern area, as well as movement into and out of the area.

3/ Does not include dairy-breed calves shipped to Italy, primarily for fattening as veal: Vermont 1,114, New York 5,287, New Jersey 1,485.

Table 8.-Dairy cattle shipped into each Northeastern State,  
by areas of origin, 1963-64

| State<br>where<br>received | 11<br>Northeastern<br>States 1/ |        | Canada |        | Ohio, Michigan,<br>Wisconsin, and<br>Minnesota |        | Other<br>sources |       | Total  |        |
|----------------------------|---------------------------------|--------|--------|--------|--|--------|------------------|-------|--------|--------|
|                            | 1963                            | 1964   | 1963   | 1964   | 1963   | 1964   | 1963             | 1964  | 1963   | 1964   |
| Me. ....                   | 223                             | 373    | 405    | 701    | 2  | 3      | 4                | -     | 634    | 1,077  |
| N. H. ...                  | 2,828                           | 2,008  | 198    | 150    | -  | -      | 3                | 123   | 3,029  | 2,281  |
| Vt. ....                   | 5,034                           | 4,602  | 2,940  | 3,505  | 8  | 2      | 137              | 71    | 8,119  | 8,180  |
| Mass. ...                  | 12,433                          | 11,363 | 1,660  | 1,534  | 380  | 333    | 250              | 342   | 14,723 | 13,572 |
| R. I. ...                  | 2,752                           | 2,765  | 107    | 157    | 10   | 12     | 4                | 20    | 2,873  | 2,954  |
| Conn. ...                  | 5,144                           | 5,407  | 1,066  | 1,003  | 82   | 96     | 166              | 84    | 6,458  | 6,590  |
| N. Y. ...                  | 3,914                           | 3,970  | 7,618  | 8,669  | 994  | 1,445  | 1,133            | 460   | 13,659 | 14,544 |
| N. J. ...                  | 3,707                           | 3,384  | 1,397  | 1,995  | 4,678  | 5,664  | 192              | 169   | 9,974  | 11,212 |
| Pa. ....                   | 8,453                           | 8,941  | 4,838  | 6,005  | 3,921  | 4,864  | 2,118            | 2,189 | 19,330 | 21,999 |
| Md. ....                   | 2,180                           | 1,908  | 101    | 124    | 330  | 406    | 1,228            | 1,309 | 3,839  | 3,747  |
| Va. ....                   | 539                             | 418    | 70     | 113    | 10   | 86     | 184              | 135   | 803    | 752    |
| Total...                   | 47,207                          | 45,139 | 20,400 | 23,956 | 10,415   | 12,911 | 5,419            | 4,902 | 83,441 | 86,908 |

1/ See footnote 1 -- Table 7.

Table 9.-Inshipments of dairy cattle by source and outshipments by destination, 11 Northeastern States, 1963 and 1964 1/

| State             | Inshipments |        |        | Outshipments |       |         |
|-------------------|-------------|--------|--------|--------------|-------|---------|
|                   | Source      | 1963   | 1964   | Destination  | 1963  | 1964    |
| Maine             | Canada..... | 405    | 701    | Mass. ....   | 2,336 | 2,058   |
|                   | N. H. ....  | 118    | 115    | Conn. ....   | 931   | 898     |
|                   | Mass. ....  | 31     | 71     | Vt. ....     | 321   | 301     |
|                   | Conn. ....  | 11     | 60     | Ga. ....     | 1     | 228     |
|                   | Vt. ....    | 30     | 59     | N. H. ....   | 225   | 157     |
|                   | N. Y. ....  | 10     | 44     | Canada.....  | 140   | 138     |
|                   | Other.....  | 29     | 27     | Other.....   | 174   | 189     |
|                   | Total.....  | 634    | 1,077  | Total.....   | 4,128 | 3,969   |
| New Hampshire     | N. Y. ....  | 1,159  | 830    | Vt. ....     | 1,399 | 1,449   |
|                   | Vt. ....    | 906    | 688    | Mass. ....   | 1,703 | 1,137   |
|                   | Mass. ....  | 384    | 269    | Conn. ....   | 439   | 579     |
|                   | Canada..... | 198    | 150    | Maine.....   | 129   | 128     |
|                   | Maine.....  | 239    | 147    | Ga. ....     | 6     | 110     |
|                   | Nebr. ....  | 0      | 60     | N. Y. ....   | 82    | 93      |
|                   | Other.....  | 143    | 137    | Other.....   | 234   | 176     |
|                   | Total.....  | 3,029  | 2,281  | Total.....   | 3,992 | 3,672   |
| Vermont <u>2/</u> | Canada..... | 2,940  | 3,505  | Mass. ....   | 1,892 | 2,071   |
|                   | N. Y. ....  | 3,010  | 2,587  | N. Y. ....   | 1,080 | 1,648   |
|                   | N. H. ....  | 1,160  | 1,130  | Conn. ....   | 1,510 | 1,475   |
|                   | Mass. ....  | 381    | 466    | N. H. ....   | 952   | 752     |
|                   | Maine.....  | 297    | 319    | Fla. ....    | 273   | 252     |
|                   | Ind. ....   | 115    | 68     | Canada.....  | 105   | 140     |
|                   | Other.....  | 216    | 105    | Other.....   | 230   | 663     |
|                   | Total.....  | 8,119  | 8,180  | Total.....   | 6,042 | 3,7,001 |
| Massachusetts     | N. Y. ....  | 4,354  | 4,350  | R. I. ....   | 1,852 | 1,503   |
|                   | Maine.....  | 2,191  | 2,034  | N. Y. ....   | 978   | 1,000   |
|                   | Vt. ....    | 1,872  | 1,875  | Conn. ....   | 573   | 744     |
|                   | Conn. ....  | 1,731  | 1,614  | Vt. ....     | 383   | 542     |
|                   | Canada..... | 1,660  | 1,534  | N. H. ....   | 393   | 297     |
|                   | N. H. ....  | 1,444  | 983    | Md. ....     | 25    | 154     |
|                   | Other.....  | 1,471  | 1,182  | Other.....   | 525   | 391     |
|                   | Total.....  | 14,723 | 13,572 | Total.....   | 4,729 | 4,631   |

See footnotes at end of table.



Table 9.-Inshipments of dairy cattle by source and outshipments by destination, 11 Northeastern States, 1963 and 1964 1/-- Con.

| State        | Inshipments |        |        | Outshipments |        |          |
|--------------|-------------|--------|--------|--------------|--------|----------|
|              | Source      | 1963   | 1964   | Destination  | 1963   | 1964     |
| Rhode Island | Mass. ....  | 1,903  | 1,487  | Mass. ....   | 476    | 385      |
|              | Conn. ....  | 584    | 956    | Conn. ....   | 201    | 210      |
|              | N. Y. ....  | 145    | 229    | Fla. ....    | 15     | 86       |
|              | Canada..... | 107    | 157    | Ga. ....     | 0      | 27       |
|              | Vt. ....    | 21     | 46     | Vt. ....     | 9      | 21       |
|              | N. H. ....  | 16     | 28     | Maine.....   | 15     | 18       |
|              | Other.....  | 97     | 51     | Other.....   | 120    | 73       |
|              | Total.....  | 2,873  | 2,954  | Total.....   | 836    | 820      |
| Connecticut  | Vt. ....    | 1,389  | 1,377  | Mass. ....   | 2,249  | 1,839    |
|              | N. Y. ....  | 978    | 1,158  | R. I. ....   | 650    | 926      |
|              | Mass. ....  | 884    | 1,044  | N. Y. ....   | 639    | 461      |
|              | Canada..... | 1,066  | 1,003  | Pa. ....     | 145    | 165      |
|              | Maine.....  | 969    | 931    | S. C. ....   | 9      | 85       |
|              | N. H. ....  | 434    | 547    | Ohio.....    | 73     | 80       |
|              | Other.....  | 738    | 530    | Other.....   | 1,096  | 734      |
|              | Total.....  | 6,458  | 6,590  | Total.....   | 4,861  | 4,290    |
| New York     | Canada..... | 7,618  | 8,669  | Mass. ....   | 4,344  | 4,904    |
|              | Vt. ....    | 1,085  | 1,486  | Vt. ....     | 2,917  | 2,600    |
|              | Wis. ....   | 908    | 1,080  | N. J. ....   | 2,499  | 2,548    |
|              | Mass. ....  | 877    | 860    | Pa. ....     | 1,631  | 2,191    |
|              | Pa. ....    | 509    | 739    | Puerto Rico. | 738    | 1,201    |
|              | Conn. ....  | 599    | 300    | Conn. ....   | 971    | 1,071    |
|              | Other.....  | 2,063  | 1,410  | Other.....   | 3,696  | 4,007    |
|              | Total.....  | 13,659 | 14,544 | Total.....   | 16,796 | 3/18,522 |
| New Jersey   | Wis. ....   | 4,169  | 4,971  | Pa. ....     | 1,949  | 2,081    |
|              | N. Y. ....  | 2,383  | 2,424  | N. C. ....   | 328    | 645      |
|              | Canada..... | 1,397  | 1,995  | Md. ....     | 401    | 346      |
|              | Pa. ....    | 792    | 735    | N. Y. ....   | 634    | 267      |
|              | Mich. ....  | 350    | 481    | Fla. ....    | 14     | 249      |
|              | Ohio.....   | 69     | 198    | Va. ....     | 285    | 248      |
|              | Other.....  | 814    | 408    | Other.....   | 1,128  | 864      |
|              | Total.....  | 9,974  | 11,212 | Total.....   | 4,739  | 3/4,700  |

See footnotes at end of table.

Table 9.-Inshipments of dairy cattle by source and outshipments by destination, 11 Northeastern States, 1963, and 1964 1-- Con.

| State        | Inshipments |        |        | Outshipments |       |       |
|--------------|-------------|--------|--------|--------------|-------|-------|
|              | Source      | 1963   | 1964   | Destination  | 1963  | 1964  |
| Pennsylvania | Canada..... | 4,838  | 6,005  | N. J. ....   | 867   | 774   |
|              | Md. ....    | 4,384  | 4,336  | Md. ....     | 537   | 768   |
|              | Wis. ....   | 3,388  | 4,232  | N. Y. ....   | 651   | 724   |
|              | N. Y. ....  | 1,629  | 1,983  | S. C. ....   | 149   | 187   |
|              | N. J. ....  | 1,875  | 1,826  | N. C. ....   | 135   | 185   |
|              | Del. ....   | 1,214  | 1,206  | W. Va. ....  | 84    | 174   |
|              | Other.....  | 2,002  | 2,411  | Other.....   | 1,158 | 1,019 |
|              | Total.....  | 19,330 | 21,999 | Total.....   | 3,581 | 3,831 |
| Maryland     | Pa. ....    | 581    | 801    | Pa. ....     | 4,441 | 4,735 |
|              | Del. ....   | 866    | 779    | Del. ....    | 458   | 591   |
|              | Va. ....    | 1,106  | 699    | Ohio.....    | 34    | 488   |
|              | W. Va. .... | 234    | 445    | W. Va. ....  | 237   | 405   |
|              | Wis. ....   | 310    | 380    | S. C. ....   | 561   | 309   |
|              | N. J. ....  | 380    | 272    | Va. ....     | 253   | 250   |
|              | Other.....  | 362    | 371    | Other.....   | 1,441 | 1,003 |
|              | Total.....  | 3,839  | 3,747  | Total.....   | 7,425 | 7,781 |
| Virginia     | Md. ....    | 295    | 255    | Md. ....     | 969   | 822   |
|              | Pa. ....    | 125    | 122    | N. C. ....   | 1,114 | 807   |
|              | Canada..... | 70     | 113    | Pa. ....     | 382   | 616   |
|              | Wis. ....   | 0      | 81     | W. Va. ....  | 346   | 390   |
|              | W. Va. .... | 48     | 37     | S. C. ....   | 194   | 276   |
|              | N. C. ....  | 81     | 28     | N. Y. ....   | 134   | 125   |
|              | Other.....  | 184    | 116    | Other.....   | 526   | 327   |
|              | Total.....  | 803    | 752    | Total.....   | 3,665 | 3,363 |

1/ Data for both inshipments and outshipments are from records of the State shown at the left side of the table. Outshipments recorded by the State of origin may differ somewhat from inshipments recorded by the State where received.

2/ Includes dairy cattle from Canada and other sources reshipped from Vermont to other States -- 800 in 1963, 600 in 1964.

3/ Does not include dairy-breed calves shipped to Italy, primarily for fattening as veal: Vermont 1,114, New York 5,287, New Jersey 1,485.

Table 10.-Dairy cattle shipped out of continental United States from 11 Northeastern States, by destination, 1955-64

| Destination          | 1955  | 1956  | 1957  | 1958  | 1959  | 1960  | 1961  | 1962  | 1963  | 1964    |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| Canada.....          | 408   | 730   | 502   | 238   | 624   | 1,218 | 1,300 | 1,148 | 713   | 1,012   |
| Puerto Rico.....     | 569   | 445   | 460   | 276   | 125   | 165   | 359   | 877   | 762   | 1,283   |
| Mexico.....          | 20    | 17    | 5     | 477   | 197   | 2     | 31    | 91    | 46    | 140     |
| Central America..... | 89    | 32    | 32    | 67    | 99    | 103   | 44    | 45    | 15    | 98      |
| South America.....   | 910   | 602   | 218   | 205   | 375   | 146   | 295   | 149   | 148   | 348     |
| Europe.....          | 240   | 292   | 332   | 106   | 150   | 251   | 128   | 32    | 15    | 8       |
| Other.....           | 145   | 280   | 254   | 213   | 105   | 88    | 95    | 70    | 40    | 206     |
| Total.....           | 2,381 | 2,398 | 1,803 | 1,582 | 1,675 | 1,973 | 2,252 | 2,412 | 1,739 | 1,3,095 |

1/ Does not include dairy-breed calves shipped to Italy, primarily for fattening as veal.

Table 11.-Cattle and calves shipped out of Wisconsin, by destination, 1955-64

| Destination             | 1955   | 1956    | 1957    | 1958    | 1959    | 1960    | 1961    | 1962    | 1963    | 1964    |
|-------------------------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 11 N. East. States..... | 8,987  | 10,508  | 12,264  | 22,117  | 27,993  | 25,850  | 18,472  | 10,889  | 9,148   | 12,064  |
| Illinois.....           | 11,963 | 14,821  | 14,767  | 15,965  | 13,931  | 10,617  | 10,429  | 8,999   | 8,107   | 6,340   |
| Minnesota.....          | 2,378  | 2,973   | 3,412   | 5,069   | 4,016   | 3,269   | 6,659   | 5,333   | 7,019   | 7,261   |
| Iowa.....               | 7,771  | 14,444  | 20,604  | 31,549  | 28,925  | 15,943  | 36,336  | 27,165  | 37,401  | 34,634  |
| Missouri.....           | 2,852  | 7,044   | 4,826   | 10,326  | 12,965  | 4,415   | 5,445   | 4,564   | 10,223  | 8,722   |
| North Dakota.....       | 6,609  | 6,326   | 5,933   | 7,765   | 6,151   | 6,415   | 11,230  | 9,638   | 10,993  | 4,937   |
| South Dakota.....       | 10,831 | 8,246   | 8,561   | 8,092   | 10,323  | 10,412  | 13,316  | 17,282  | 10,824  | 5,630   |
| Nebraska.....           | 10,509 | 11,905  | 14,154  | 14,949  | 12,708  | 9,792   | 19,003  | 13,338  | 10,345  | 11,811  |
| Kansas.....             | 985    | 1,909   | 3,696   | 6,843   | 5,405   | 3,039   | 9,144   | 10,546  | 9,708   | 7,814   |
| Other N. C. States..... | 4,063  | 7,237   | 13,276  | 21,004  | 15,887  | 10,807  | 13,296  | 8,906   | 10,548  | 9,184   |
| S. Central States.....  | 10,597 | 18,418  | 24,320  | 31,443  | 28,849  | 16,001  | 14,103  | 15,260  | 12,354  | 11,142  |
| Other U. S.....         | 5,541  | 6,911   | 10,856  | 22,030  | 16,519  | 9,357   | 7,298   | 17,508  | 27,112  | 14,642  |
| Outside U. S.....       | 3,242  | 3,063   | 3,305   | 1,960   | 1,788   | 3,129   | 2,921   | 2,831   | 4,254   | 4,581   |
| Total.....              | 86,328 | 113,805 | 139,974 | 199,112 | 185,460 | 129,046 | 167,652 | 152,259 | 168,036 | 138,762 |

Table 12.-Dairy cows and heifers shipped into Florida, by source, 1955-64 1/

| Source              | 1955   | 1956   | 1957   | 1958   | 1959   | 1960   | 1961   | 1962   | 1963   | 1964   |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Wisconsin.....      | 1,045  | 1,729  | 4,483  | 5,212  | 4,211  | 3,310  | 1,760  | 1,840  | 2,125  | 2,589  |
| South Carolina..... | 2,254  | 3,066  | 2,642  | 800    | 773    | 1,794  | 1,393  | 1,736  | 1,902  | 1,162  |
| Georgia.....        | 9,844  | 6,887  | 9,355  | 5,286  | 4,802  | 4,431  | 3,482  | 3,590  | 2,604  | 3,599  |
| Tennessee.....      | 2,279  | 1,897  | 3,725  | 8,107  | 10,645 | 8,641  | 7,115  | 8,285  | 8,801  | 6,515  |
| Alabama.....        | 5,243  | 5,439  | 7,059  | 4,399  | 5,073  | 5,126  | 3,344  | 3,630  | 2,441  | 2,862  |
| Mississippi.....    | 3,336  | 4,221  | 4,671  | 4,393  | 6,692  | 6,749  | 5,065  | 6,701  | 4,774  | 4,589  |
| Other.....          | 5,203  | 5,383  | 8,665  | 6,635  | 7,999  | 7,296  | 4,056  | 5,235  | 7,870  | 5,709  |
| Total.....          | 29,204 | 28,622 | 40,600 | 34,832 | 40,195 | 37,347 | 26,215 | 31,017 | 30,517 | 27,025 |

1/ Truck shipments into area east and south of Suwannee River.

Table 13.-Dairy cattle shipped into California, by source, 1955-64

| Source          | 1955   | 1956   | 1957   | 1958   | 1959   | 1960   | 1961   | 1962   | 1963   | 1964   |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Montana.....    | 578    | 792    | 1,241  | 1,479  | 894    | 1,225  | 519    | 656    | 892    | 358    |
| Idaho.....      | 7,963  | 12,877 | 12,802 | 8,822  | 5,946  | 5,016  | 4,167  | 5,140  | 4,342  | 4,809  |
| Colorado.....   | 2,482  | 2,291  | 4,884  | 4,326  | 3,778  | 4,483  | 1,893  | 589    | 383    | 84     |
| Arizona.....    | 391    | 348    | 214    | 313    | 773    | 1,298  | 1,111  | 598    | 425    | 1,296  |
| Utah.....       | 11,956 | 11,432 | 12,983 | 10,192 | 8,425  | 10,435 | 6,765  | 5,869  | 5,226  | 6,861  |
| Nevada.....     | 747    | 932    | 1,723  | 1,677  | 1,089  | 1,788  | 2,316  | 1,074  | 953    | 1,511  |
| Washington..... | 867    | 2,748  | 2,453  | 2,704  | 1,746  | 1,196  | 1,068  | 1,030  | 699    | 987    |
| Oregon.....     | 433    | 355    | 502    | 320    | 460    | 458    | 601    | 358    | 220    | 664    |
| Other.....      | 2,810  | 1,738  | 2,305  | 4,220  | 3,088  | 679    | 484    | 483    | 1,242  | 1,441  |
| Total.....      | 28,227 | 33,513 | 39,107 | 34,053 | 26,199 | 26,578 | 18,924 | 15,797 | 14,382 | 18,011 |

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