

Milk Production



National
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Statistics
Service

United States
Department of
Agriculture

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March Milk Production Up 4 Percent

Milk production in the 22 major States during March totaled 11.8 billion pounds, 4 percent above production in these same States in March 1994. February revised production, at 10.4 billion pounds, was 5 percent more than February 1994.

Production per cow in the 22 major States averaged 1,454 pounds for March, 53 pounds above March 1994.

The number of cows on farms in the 22 major States was 8.11 million head, 34,000 head more than March 1994 and 20,000 head more than February 1995.

During the January-March period, the 22 major States produced 33.5 billion pounds of milk, 85.8 percent of the U.S. production. If the remaining 28 States not surveyed monthly followed the same pattern as the 22 States, the U.S. production would be 13.1 billion pounds for January 1995, 12.2 billion pounds for February 1995, and 13.8 billions pounds for March 1995.

January-March Milk Production Up 4 Percent

The quarterly production of milk for the U.S. was 39.1 billion pounds, 4 percent above the January-March period last year. The average number of milk cows in the U.S. during the January-March quarter was 9.52 million head, 12,000 head more than the same period last year.

Grain and Other Concentrates Fed

Grain and other concentrates fed to milk cows on April 1, 1995, averaged 18.6 pounds per cow, 0.4 of a pound less than on April 1, 1994.

Value of Grain and Other Concentrates

The value of grain and other concentrates fed to cows on April 1 averaged \$7.57 per hundredweight, \$0.66 less than the price on April 1, 1994.

Notice

Monthly estimates are published for New Mexico beginning with the February 1995 issue. To facilitate year to year comparisons, monthly estimates for both 1994 and 1995 include New Mexico.

For information call Kevin Hintzman at (202) 720-4448. Office hours are 8:00 a.m. to 4:30 p.m. ET.

Milk Cows and Production: By Quarter, United States, 1994-95

| Quarter | Milk Cows <u>1/</u> | | Milk per Cow <u>2/</u> | | Milk Production <u>2/</u> | | |
|---------|---------------------|-------|------------------------|-------|---------------------------|--------|-------------------|
| | 1994 | 1995 | 1994 | 1995 | 1994 | 1995 | 1995 as % of 1994 |
| | ---- 1,000 ---- | | Pounds | | Million Pounds | | Percent |
| Jan-Mar | 9,506 | 9,518 | 3,951 | 4,104 | 37,560 | 39,064 | 104 |
| Apr-Jun | 9,530 | | 4,188 | | 39,916 | | |
| Jul-Sep | 9,539 | | 4,007 | | 38,217 | | |
| Oct-Dec | 9,524 | | 3,983 | | 37,933 | | |
| Annual | 9,525 | | 16,129 | | 153,626 | | |

1/ Includes dry cows, excludes heifers not yet fresh.

2/ Excludes milk sucked by calves.

Milk Cows and Production: By Month, 22 Selected States, 1994-95

| Month | Milk Cows <u>1/</u> | | Milk per Cow <u>2/</u> | | Milk Production <u>2/</u> | | |
|--------|---------------------|-------|------------------------|-------|---------------------------|--------|-------------------|
| | 1994 | 1995 | 1994 | 1995 | 1994 | 1995 | 1995 as % of 1994 |
| | ---- 1,000 ---- | | Pounds | | Million Pounds | | Percent |
| Jan | 8,092 | 8,090 | 1,343 | 1,394 | 10,870 | 11,280 | 104 |
| Feb | 8,082 | 8,088 | 1,236 | 1,291 | 9,990 | 10,441 | 105 |
| Mar | 8,074 | 8,108 | 1,401 | 1,454 | 11,315 | 11,791 | 104 |
| Apr | 8,080 | | 1,396 | | 11,282 | | |
| May | 8,097 | | 1,457 | | 11,799 | | |
| Jun | 8,107 | | 1,388 | | 11,249 | | |
| Jul | 8,104 | | 1,389 | | 11,260 | | |
| Aug | 8,108 | | 1,369 | | 11,102 | | |
| Sep | 8,109 | | 1,318 | | 10,689 | | |
| Oct | 8,104 | | 1,354 | | 10,970 | | |
| Nov | 8,098 | | 1,312 | | 10,624 | | |
| Dec | 8,094 | | 1,370 | | 11,090 | | |
| Annual | 8,096 | | 16,334 | | 132,240 | | |

1/ Includes dry cows, excludes heifers not yet fresh.

2/ Excludes milk sucked by calves.

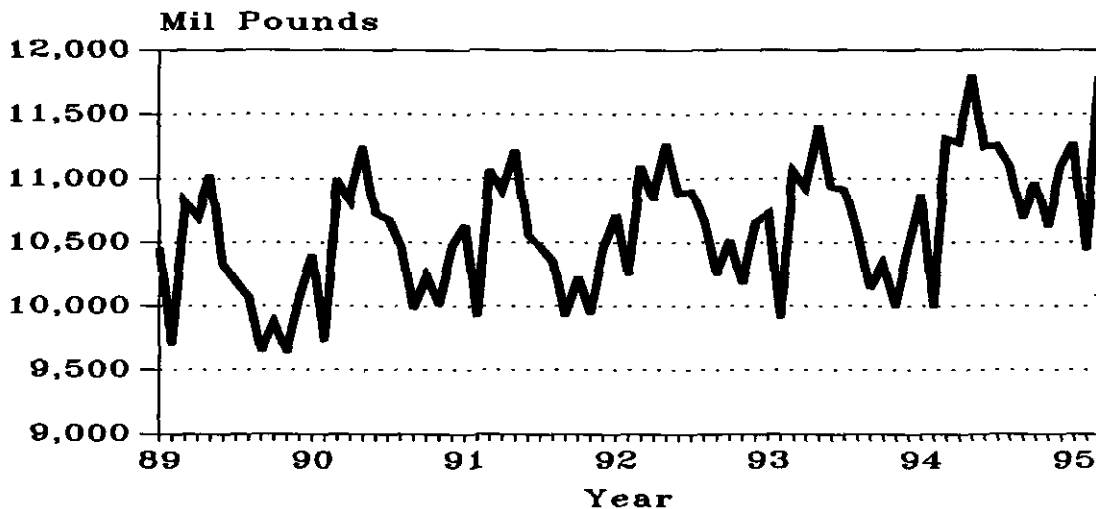
Milk Cows and Production: By State. March 1994-95

| State | Milk Cows <u>1/</u> | | Milk per Cow <u>2/</u> | | Milk Production <u>2/</u> | | 1995 as % of 1994 |
|----------------|---------------------|-------|------------------------|-------|---------------------------|--------|-------------------------|
| | 1994 | 1995 | 1994 | 1995 | 1994 | 1995 | |
| | ---- 1,000 ---- | | Pounds | | Million Pounds | | Percent |
| CA | 1,226 | 1,254 | 1,710 | 1,750 | 2,096 | 2,195 | 105 |
| FL | 178 | 166 | 1,485 | 1,435 | 264 | 238 | 90 |
| ID | 199 | 223 | 1,460 | 1,510 | 291 | 337 | 116 |
| IL | 165 | 163 | 1,340 | 1,380 | 221 | 225 | 102 |
| IN | 144 | 145 | 1,350 | 1,340 | 194 | 194 | 100 |
| IA | 263 | 262 | 1,240 | 1,320 | 326 | 346 | 106 |
| KY | 171 | 163 | 1,005 | 1,080 | 172 | 176 | 102 |
| MD | 93 | 93 | 1,215 | 1,290 | 113 | 120 | 106 |
| MI | 329 | 326 | 1,430 | 1,510 | 470 | 492 | 105 |
| MN | 615 | 600 | 1,340 | 1,395 | 824 | 837 | 102 |
| MO | 196 | 195 | 1,210 | 1,275 | 237 | 249 | 105 |
| NM | 157 | 185 | 1,758 | 1,705 | 276 | 315 | 114 |
| NY | 725 | 707 | 1,365 | 1,400 | 990 | 990 | 100 |
| NC | 91 | 89 | 1,475 | 1,510 | 134 | 134 | 100 |
| OH | 297 | 289 | 1,300 | 1,375 | 386 | 397 | 103 |
| PA | 637 | 641 | 1,380 | 1,440 | 879 | 923 | 105 |
| TN | 158 | 157 | 1,050 | 1,100 | 166 | 173 | 104 |
| TX | 401 | 400 | 1,480 | 1,525 | 593 | 610 | 103 |
| VT | 159 | 156 | 1,335 | 1,380 | 212 | 215 | 101 |
| VA | 130 | 129 | 1,290 | 1,350 | 168 | 174 | 104 |
| WA | 257 | 265 | 1,690 | 1,720 | 434 | 456 | 105 |
| WI | 1,483 | 1,500 | 1,260 | 1,330 | 1,869 | 1,995 | 107 |
| 22 State Total | 8,074 | 8,108 | 1,401 | 1,454 | 11,315 | 11,791 | 104 |

1/ Includes dry cows, excludes heifers not yet fresh.
2/ Excludes milk sucked by calves.

Milk Production, 1989-1995

22 States 1/



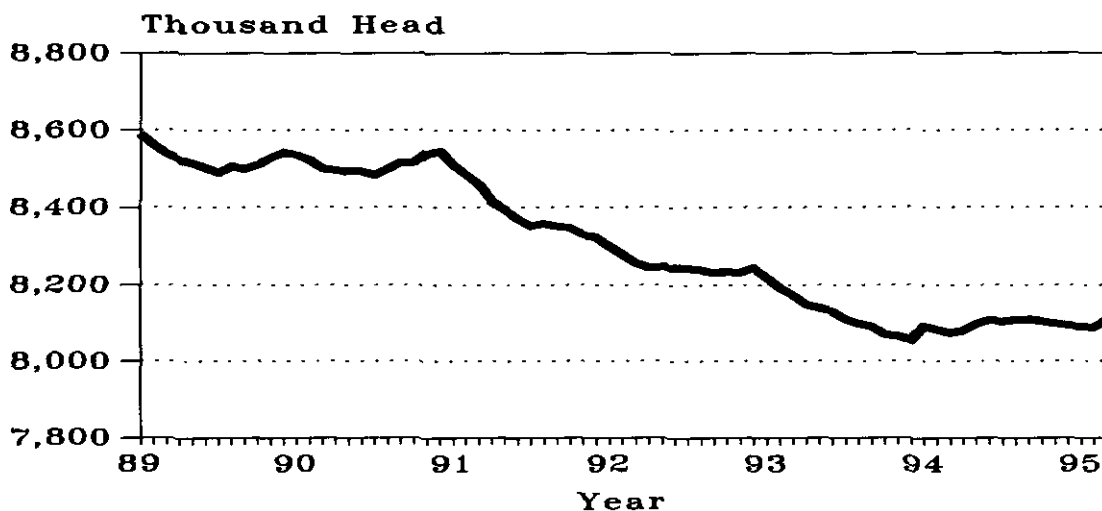
1/ New Mexico added, beginning January 1994.

Milk Cows and Production: By State. February 1994-95 ^{1/}

| State | Milk Cows ^{2/} | | Milk per Cow ^{3/} | | Milk Production ^{3/} | | 1995 as % of 1994 |
|----------------|-------------------------|-------|----------------------------|-------|-------------------------------|--------|-------------------------|
| | 1994 | 1995 | 1994 | 1995 | 1994 | 1995 | |
| | ---- 1,000 ---- | | Pounds | | Million Pounds | | Percent |
| CA | 1,223 | 1,252 | 1,490 | 1,520 | 1,822 | 1,903 | 104 |
| FL | 176 | 166 | 1,290 | 1,290 | 227 | 214 | 94 |
| ID | 197 | 221 | 1,280 | 1,360 | 252 | 301 | 119 |
| IL | 165 | 163 | 1,210 | 1,260 | 200 | 205 | 103 |
| IN | 145 | 145 | 1,210 | 1,200 | 175 | 174 | 99 |
| IA | 264 | 262 | 1,175 | 1,195 | 310 | 313 | 101 |
| KY | 172 | 163 | 885 | 965 | 152 | 157 | 103 |
| MD | 95 | 92 | 1,115 | 1,195 | 106 | 110 | 104 |
| MI | 329 | 326 | 1,245 | 1,305 | 410 | 425 | 104 |
| MN | 620 | 600 | 1,195 | 1,245 | 741 | 747 | 101 |
| MO | 198 | 193 | 1,040 | 1,115 | 206 | 215 | 104 |
| NM | 155 | 174 | 1,555 | 1,695 | 241 | 295 | 122 |
| NY | 722 | 707 | 1,200 | 1,250 | 866 | 884 | 102 |
| NC | 91 | 89 | 1,320 | 1,340 | 120 | 119 | 99 |
| OH | 299 | 289 | 1,175 | 1,260 | 351 | 364 | 104 |
| PA | 637 | 641 | 1,240 | 1,280 | 790 | 820 | 104 |
| TN | 159 | 159 | 970 | 1,030 | 154 | 164 | 106 |
| TX | 400 | 399 | 1,260 | 1,300 | 504 | 519 | 103 |
| VT | 160 | 156 | 1,180 | 1,245 | 189 | 194 | 103 |
| VA | 130 | 129 | 1,160 | 1,295 | 151 | 167 | 111 |
| WA | 256 | 262 | 1,505 | 1,540 | 385 | 403 | 105 |
| WI | 1,489 | 1,500 | 1,100 | 1,165 | 1,638 | 1,748 | 107 |
| 22 State Total | 8,082 | 8,088 | 1,236 | 1,291 | 9,990 | 10,441 | 105 |

^{1/} 1995 revised. ^{2/} Includes dry cows. Excludes heifers not yet fresh.
^{3/} Excludes milk sucked by calves.

All Milk Cows, 1989-1995 22 States ^{1/}



^{1/} New Mexico added, beginning January 1994.

Milk Cows and Production: By State and United States
Revised October-December 1993-1994

| State | Oct-Dec Milk Cows ^{1/} | | Oct-Dec Milk Production ^{2/} | | 1994 as % of 1993 |
|------------------|---------------------------------|-------|---------------------------------------|--------|-------------------------|
| | 1993 | 1994 | 1993 | 1994 | |
| | ----- 1,000 ----- | | -- Million Pounds -- | | Percent |
| AL | 38 | 37 | 127 | 122 | 96 |
| AK | 0.7 | 0.7 | 2.88 | 2.85 | 99 |
| AZ | 105 | 114 | 492 | 536 | 109 |
| AR | 62 | 61 | 183 | 177 | 97 |
| CA | 1,219 | 1,245 | 5,794 | 6,326 | 109 |
| CO | 80 | 82 | 356 | 391 | 110 |
| CT | 33 | 32 | 132 | 128 | 97 |
| DE | 10 | 10 | 35.5 | 34.1 | 96 |
| FL | 177 | 172 | 608 | 603 | 99 |
| GA | 102 | 102 | 380 | 389 | 102 |
| HI | 10.9 | 10.5 | 32.3 | 32.8 | 102 |
| ID | 193 | 217 | 830 | 981 | 118 |
| IL | 166 | 163 | 590 | 619 | 105 |
| IN | 145 | 145 | 546 | 552 | 101 |
| IA | 265 | 265 | 987 | 1,005 | 102 |
| KS | 77 | 81 | 255 | 290 | 114 |
| KY | 176 | 165 | 503 | 504 | 100 |
| LA | 78 | 79 | 217 | 220 | 101 |
| ME | 41 | 39 | 160 | 155 | 97 |
| MD | 96 | 91 | 343 | 328 | 96 |
| MA | 30 | 28 | 115 | 108 | 94 |
| MI | 327 | 326 | 1,324 | 1,364 | 103 |
| MN | 623 | 603 | 2,253 | 2,229 | 99 |
| MS | 58 | 57 | 171 | 174 | 102 |
| MO | 203 | 196 | 655 | 674 | 103 |
| MT | 22 | 21 | 74 | 79 | 107 |
| NE | 81 | 75 | 273 | 276 | 101 |
| NV | 20 | 23 | 87 | 106 | 122 |
| NH | 20 | 19 | 78 | 76 | 97 |
| NJ | 24 | 24 | 87 | 84 | 97 |
| NM | 147 | 171 | 687 | 851 | 124 |
| NY | 726 | 712 | 2,751 | 2,767 | 101 |
| NC | 92 | 89 | 370 | 360 | 97 |
| ND | 69 | 66 | 210 | 208 | 99 |
| OH | 301 | 289 | 1,125 | 1,131 | 101 |
| OK | 100 | 98 | 320 | 300 | 94 |
| OR | 100 | 100 | 415 | 417 | 100 |
| PA | 642 | 640 | 2,498 | 2,559 | 102 |
| RI | 2.2 | 2.1 | 7.7 | 7.6 | 99 |
| SC | 28 | 28 | 106 | 103 | 97 |
| SD | 124 | 120 | 387 | 384 | 99 |
| TN | 160 | 160 | 485 | 495 | 102 |
| TX | 399 | 401 | 1,447 | 1,496 | 103 |
| UT | 79 | 88 | 326 | 359 | 110 |
| VT | 162 | 157 | 608 | 603 | 99 |
| VA | 131 | 129 | 494 | 493 | 100 |
| WA | 257 | 263 | 1,228 | 1,291 | 105 |
| WV | 22 | 22 | 70 | 69 | 99 |
| WI | 1,507 | 1,498 | 5,260 | 5,453 | 104 |
| WY | 7.1 | 6.8 | 24.1 | 20.8 | 86 |
| US ^{3/} | 9,537 | 9,524 | 36,509 | 37,933 | 104 |

1/ Includes dry cows, excludes heifers not yet fresh.
2/ Excludes milk sucked by calves.
3/ Milk cows will not add due to rounding.

Milk Cows and Production: By State and United States
Preliminary January-March 1994-95

| State | Jan-Mar Milk Cows <u>1/</u> | | Jan-Mar Milk Production <u>2/</u> | | 1995 |
|---------------|-----------------------------|-------|-----------------------------------|--------|-----------------|
| | 1994 | 1995 | 1994 | 1995 | as % of 1994 |
| | ---- 1,000 ---- | | -- Million Pounds -- | | Percent |
| AL | 37 | 35 | 143 | 139 | 97 |
| AK | 0.7 | 0.7 | 3 | 2.80 | 93 |
| AZ | 111 | 113 | 557 | 588 | 106 |
| AR | 62 | 61 | 192 | 189 | 98 |
| CA | 1,223 | 1,252 | 5,907 | 6,186 | 105 |
| CO | 80 | 83 | 367 | 390 | 106 |
| CT | 33 | 33 | 135 | 137 | 101 |
| DE | 10 | 10.5 | 37.6 | 40 | 106 |
| FL | 176 | 167 | 726 | 683 | 94 |
| GA | 102 | 102 | 432 | 437 | 101 |
| HI | 10.7 | 10.4 | 35.5 | 36 | 101 |
| ID | 197 | 221 | 822 | 966 | 118 |
| IL | 165 | 163 | 635 | 637 | 100 |
| IN | 145 | 145 | 559 | 554 | 99 |
| IA | 264 | 263 | 962 | 1,002 | 104 |
| KS | 76 | 82 | 265 | 295 | 111 |
| KY | 172 | 163 | 495 | 506 | 102 |
| LA | 79 | 80 | 258 | 264 | 102 |
| ME | 40 | 39 | 158 | 157 | 99 |
| MD | 94 | 92 | 334 | 350 | 105 |
| MA | 30 | 29 | 115 | 113 | 98 |
| MI | 329 | 326 | 1,331 | 1,382 | 104 |
| MN | 618 | 600 | 2,368 | 2,391 | 101 |
| MS | 58 | 57 | 203 | 205 | 101 |
| MO | 198 | 194 | 669 | 700 | 105 |
| MT | 21 | 21 | 72 | 79 | 110 |
| NE | 79 | 76 | 274 | 277 | 101 |
| NV | 21 | 23 | 93 | 98.9 | 106 |
| NH | 20 | 19 | 81 | 79 | 98 |
| NJ | 25 | 23 | 88 | 92 | 105 |
| NM | 154 | 178 | 771 | 905 | 117 |
| NY | 724 | 707 | 2,808 | 2,833 | 101 |
| NC | 91 | 89 | 383 | 381 | 99 |
| ND | 68 | 64 | 211 | 204 | 97 |
| OH | 299 | 289 | 1,123 | 1,150 | 102 |
| OK | 100 | 98 | 330 | 333 | 101 |
| OR | 100 | 100 | 414 | 445 | 107 |
| PA | 638 | 640 | 2,527 | 2,631 | 104 |
| RI | 2.3 | 2.2 | 8.1 | 8.3 | 102 |
| SC | 28 | 27 | 112 | 108 | 96 |
| SD | 121 | 120 | 384 | 394 | 103 |
| TN | 159 | 159 | 478 | 502 | 105 |
| TX | 400 | 399 | 1,631 | 1,676 | 103 |
| UT | 80 | 85 | 327 | 350 | 107 |
| VT | 160 | 156 | 611 | 620 | 101 |
| VA | 130 | 129 | 486 | 515 | 106 |
| WA | 257 | 262 | 1,241 | 1,301 | 105 |
| WV | 22 | 22 | 68 | 70 | 103 |
| WI | 1,489 | 1,500 | 5,308 | 5,641 | 106 |
| WY | 7 | 6.4 | 22 | 21 | 95 |
| U S <u>3/</u> | 9,506 | 9,518 | 37,560 | 39,064 | 104 |

1/ Includes dry cows, excludes heifers not yet fresh.

2/ Excludes milk sucked by calves.

3/ Milk cows will not add due to rounding.

Grain and Other Concentrates: Quantity Fed Daily and Value
By State and United States, April 1, 1994-95

| State | Grain and Other Concentrates : Value per 100 Pounds of Concentrate | | Fed Daily per Milk Cow : Ration Fed to Milk Cows | |
|-------|--|------|--|-------|
| | 1994 | 1995 | 1994 | 1995 |
| | ----- Pounds ----- | | ----- Dollars ----- | |
| AL | 17.6 | 19.0 | 8.70 | 8.10 |
| AK | 19.2 | 19.5 | 13.50 | 13.80 |
| AZ | 23.5 | 23.9 | 8.15 | 7.70 |
| AR | 17.4 | 18.0 | 8.40 | 10.90 |
| CA | 21.0 | 20.0 | 7.75 | 7.60 |
| CO | 23.0 | 22.5 | 7.30 | 7.00 |
| CT | 17.0 | 18.0 | 9.20 | 8.40 |
| DE | 15.7 | 15.1 | 9.10 | 9.00 |
| FL | 30.0 | 25.0 | 7.30 | 7.20 |
| GA | 24.0 | 23.4 | 8.20 | 7.50 |
| ID | 21.0 | 22.5 | 6.80 | 6.80 |
| IL | 18.5 | 16.9 | 8.40 | 8.20 |
| IN | 16.7 | 17.2 | 7.90 | 7.80 |
| IA | 16.4 | 17.6 | 7.50 | 6.80 |
| KS | 19.1 | 19.3 | 7.55 | 7.00 |
| KY | 17.3 | 16.7 | 8.70 | 8.60 |
| LA | 18.2 | 18.1 | 8.50 | 8.00 |
| ME | 16.0 | 16.0 | 9.40 | 9.00 |
| MD | 16.4 | 15.0 | 9.30 | 9.20 |
| MA | 16.0 | 16.5 | 9.70 | 8.55 |
| MI | 16.5 | 17.0 | 7.20 | 7.20 |
| MN | 18.1 | 18.0 | 8.30 | 7.00 |
| MS | 18.5 | 17.1 | 8.70 | 7.95 |
| MO | 19.0 | 19.0 | 8.10 | 7.60 |
| MT | 16.5 | 17.1 | 7.55 | 7.30 |
| NE | 17.0 | 17.2 | 7.60 | 7.10 |
| NV | 20.0 | 20.0 | 9.00 | 8.10 |
| NH | 17.0 | 17.0 | 9.10 | 8.85 |
| NJ | 13.5 | 15.4 | 8.90 | 8.40 |
| NM | 25.0 | 26.0 | 6.70 | 6.20 |
| NY | 15.7 | 15.6 | 9.40 | 9.10 |
| NC | 18.6 | 18.9 | 9.45 | 8.75 |
| ND | 16.0 | 16.2 | 6.00 | 5.60 |
| OH | 16.4 | 17.5 | 9.20 | 8.00 |
| OK | 18.9 | 19.8 | 8.30 | 7.80 |
| OR | 18.0 | 19.5 | 9.00 | 8.75 |
| PA | 17.6 | 16.0 | 9.45 | 8.80 |
| RI | 15.0 | 16.0 | 9.20 | 8.25 |
| SC | 18.5 | 19.5 | 8.35 | 7.65 |
| SD | 16.9 | 17.4 | 7.00 | 6.35 |
| TN | 17.0 | 18.0 | 9.50 | 8.90 |
| TX | 24.0 | 19.5 | 8.20 | 6.30 |
| UT | 18.2 | 19.5 | 7.70 | 7.00 |
| VT | 16.0 | 16.0 | 9.20 | 8.65 |
| VA | 16.7 | 15.0 | 9.50 | 8.60 |
| WA | 20.5 | 21.0 | 8.35 | 7.90 |
| WV | 16.4 | 15.6 | 8.90 | 8.90 |
| WI | 17.5 | 18.0 | 8.00 | 6.70 |
| WY | 12.5 | 12.5 | 6.40 | 6.70 |
| US | 19.0 | 18.6 | 8.23 | 7.57 |

Survey Procedures: Primary data used to determine these estimates were obtained from a sample of producers. Individual States maintain a list of all known milk producers and information on the size of their herd. States use all known sources of producers to ensure that their lists are as complete as possible. About 20,000 producers are sampled in January and data are collected from about 10,000 respondents. There are about 7,300 respondents in each of the remaining quarters. Generally, all large producers and a sample of small producers are included in the survey. Questionnaires are mailed to producers near the end of the month to obtain data for the first day of the month. Additional reports are obtained by telephone, as needed, to supplement the mail response.

Estimation Procedures: State offices prepare these estimates using survey indications, historic trends, and any available administrative data. Individual State estimates are reviewed by the Agricultural Statistics Board for reasonableness.

Revision Policy: Milk production, rate per cow, and number of cows are subject to revision the following month for monthly States or the following quarter for the quarterly States. Normally, Federal Market Order sales are the main basis for revisions. However, data for all orders are not available in time for this revision. Estimates are again subject to revisions in February each year based on additional administrative data. In the event that additional changes are necessary, a third revision is possible in February the following year. Estimates are again reviewed after data from the five-year Census of Agriculture, conducted by the Department of Commerce, are available. No revisions are made after that date.

Reliability: Since all operations with dairy animals are not included in the sample, survey estimates are subject to sampling variability. Survey results are also subject to non-sampling errors such as omissions, duplications, and mistakes in reporting, recording, and processing the data. The effects of these errors cannot be measured directly. They are minimized through rigid quality controls in the data collection process and through a careful review of all reported data for consistency and reasonableness.

To assist users in evaluating the reliability of the estimates in this report, the "Root Mean Square Error" is shown for selected items in the table below. The "Root Mean Square Error" is a statistical measure based on past performance and is computed using the differences between first and final estimates. The "Root Mean Square Error" for milk cow inventory estimates over the past 10 quarters is 1.1 percent. This means that chances are 2 out of 3 that the final January-March estimate will not be above or below the current estimate of 9.52 million head by more than 1.1 percent, or about 105,000 head. Chances are 9 out of 10 that the difference will not exceed 2.0 percent, or about 190,000 head (the 90 percent confidence level).

Reliability of January-March Milk Estimates 1/

| Item | Root Mean Square Error | 90% Confidence Level | Difference Between First and Final Estimates <u>1/</u> | | | Number of Quarters | |
|-----------------|------------------------|----------------------|--|----------|---------|--------------------|-------------|
| | | | Average | Smallest | Largest | Above Final | Below Final |
| | - Percent - | | ----- Mil Lbs. ----- | | | - Number - | |
| Milk Production | 0.5 1.0 | 391 | 163 | 7 | 315 | 8 | 2 |
| | | | ----- 1,000 Head ----- | | | | |
| All Milk Cows | 1.1 2.0 | 190 | 96 | 5 | 187 | 10 | 0 |

1/ Based on records for the past 10 January-March quarters.

