# Milk Production

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## September Milk Production up 4.2 Percent

**Milk production** in the 24 major States during September totaled 18.3 billion pounds, up 4.2 percent from September 2024. August revised production, at 18.8 billion pounds, was up 3.6 percent from August 2024. The August revision represented an increase of 44 million pounds or 0.2 percent from last month's preliminary production estimate.

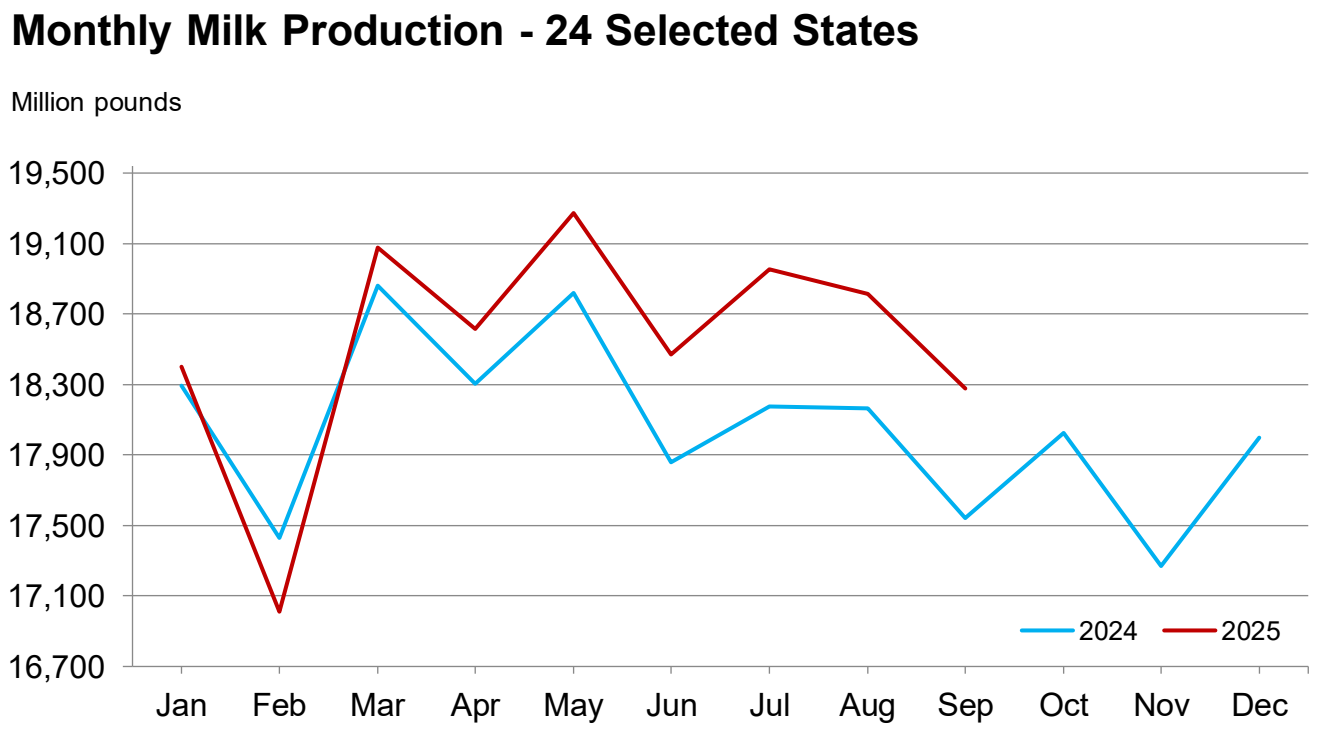
**Production per cow** in the 24 major States averaged 1,999 pounds for September, 30 pounds above September 2024.

**The number of milk cows** on farms in the 24 major States was 9.15 million head, 235,000 head more than September 2024, and 38,000 head more than August 2025.

## July-September Milk Production up 3.8 Percent

**Milk production** in the United States during the July - September quarter totaled 58.2 billion pounds, up 3.8 percent from the July - September quarter last year.

**The average number of milk cows** in the United States during the quarter was 9.54 million head, 82,000 head more than the April - June quarter, and 199,000 head more than the same period last year.



## Milk Cows and Production by Quarter – United States: 2024-2025

[May not add due to rounding. Blank data cells indicate estimation period has not yet begun]

| Quarter | Milk cows [1] | | Milk per cow [2] | | Milk production [2] | | |
|---|---|---|---|---|---|---|---|
| | 2024 | 2025 | 2024 | 2025 | 2024 | 2025 | Change from 2024 |
| | (1,000 head) | (1,000 head) | (pounds) | (pounds) | (million pounds) | (million pounds) | (percent) |
| January-March | 9,338 | 9,401 | 6,098 | 6,039 | 56,943 | 56,773 | -0.3 |
| April-June | 9,330 | 9,458 | 6,145 | 6,206 | 57,333 | 58,697 | 2.4 |
| July-September | 9,341 | 9,540 | 6,004 | 6,103 | 56,085 | 58,221 | 3.8 |
| October-December | 9,360 | | 5,930 | | 55,507 | | |
| Annual | 9,342 | | 24,178 | | 225,868 | | |

[1] Includes dry cows. Excludes heifers not yet fresh.
[2] Excludes milk sucked by calves.

## Milk Cows and Production by Month – 24 Selected States: 2024-2025

[May not add due to rounding. Blank data cells indicate estimation period has not yet begun]

| Month | Milk cows [1] | | Milk per cow [2] | | Milk production [2] | | |
|---|---|---|---|---|---|---|---|
| | 2024 | 2025 | 2024 | 2025 | 2024 | 2025 | Change from 2024 |
| | (1,000 head) | (1,000 head) | (pounds) | (pounds) | (million pounds) | (million pounds) | (percent) |
| January | 8,871 | 8,950 | 2,062 | 2,056 | 18,293 | 18,401 | 0.6 |
| February | 8,888 | 8,955 | 1,961 | 1,900 | 17,432 | 17,011 | -2.4 |
| March | 8,892 | 8,976 | 2,121 | 2,125 | 18,861 | 19,075 | 1.1 |
| April | 8,890 | 8,998 | 2,059 | 2,069 | 18,305 | 18,618 | 1.7 |
| May | 8,886 | 9,026 | 2,118 | 2,135 | 18,821 | 19,273 | 2.4 |
| June | 8,878 | 9,032 | 2,012 | 2,045 | 17,861 | 18,470 | 3.4 |
| July | 8,886 | 9,068 | 2,045 | 2,090 | 18,175 | 18,951 | 4.3 |
| August | 8,903 | 9,108 | 2,040 | 2,065 | 18,164 | 18,812 | 3.6 |
| September | 8,911 | 9,146 | 1,969 | 1,999 | 17,544 | 18,279 | 4.2 |
| October | 8,927 | | 2,019 | | 18,025 | | |
| November | 8,919 | | 1,936 | | 17,270 | | |
| December | 8,916 | | 2,018 | | 17,996 | | |
| Annual | 8,897 | | 24,362 | | 216,747 | | |

[1] Includes dry cows. Excludes heifers not yet fresh.
[2] Excludes milk sucked by calves.

## Estimated Milk Cows and Production by Month – United States: 2024-2025

[May not add due to rounding. Blank data cells indicate estimation period has not yet begun]

| Month | Milk cows [1] | | Milk per cow [2] | | Milk production [2] | | |
|---|---|---|---|---|---|---|---|
| | 2024 | 2025 | 2024 | 2025 | 2024 | 2025 | Change from 2024 |
| | (1,000 head) | (1,000 head) | (pounds) | (pounds) | (million pounds) | (million pounds) | (percent) |
| January | 9,324 | 9,390 | 2,047 | 2,042 | 19,083 | 19,173 | 0.5 |
| February | 9,343 | 9,395 | 1,946 | 1,887 | 18,185 | 17,726 | -2.5 |
| March | 9,347 | 9,417 | 2,105 | 2,110 | 19,675 | 19,874 | 1.0 |
| April | 9,336 | 9,436 | 2,044 | 2,055 | 19,082 | 19,390 | 1.6 |
| May | 9,331 | 9,466 | 2,103 | 2,120 | 19,624 | 20,071 | 2.3 |
| June | 9,323 | 9,472 | 1,998 | 2,031 | 18,627 | 19,236 | 3.3 |
| July | 9,326 | 9,499 | 2,029 | 2,073 | 18,918 | 19,688 | 4.1 |
| August | 9,344 | 9,541 | 2,023 | 2,048 | 18,906 | 19,543 | 3.4 |
| September | 9,353 | 9,581 | 1,952 | 1,982 | 18,261 | 18,990 | 4.0 |
| October | 9,367 | | 2,004 | | 18,775 | | |
| November | 9,359 | | 1,922 | | 17,988 | | |
| December | 9,355 | | 2,004 | | 18,744 | | |
| Annual | 9,342 | | 24,178 | | 225,868 | | |

[1] Includes dry cows. Excludes heifers not yet fresh.
[2] Excludes milk sucked by calves.

## Milk Cows and Production – 24 Selected States: September 2024 and 2025

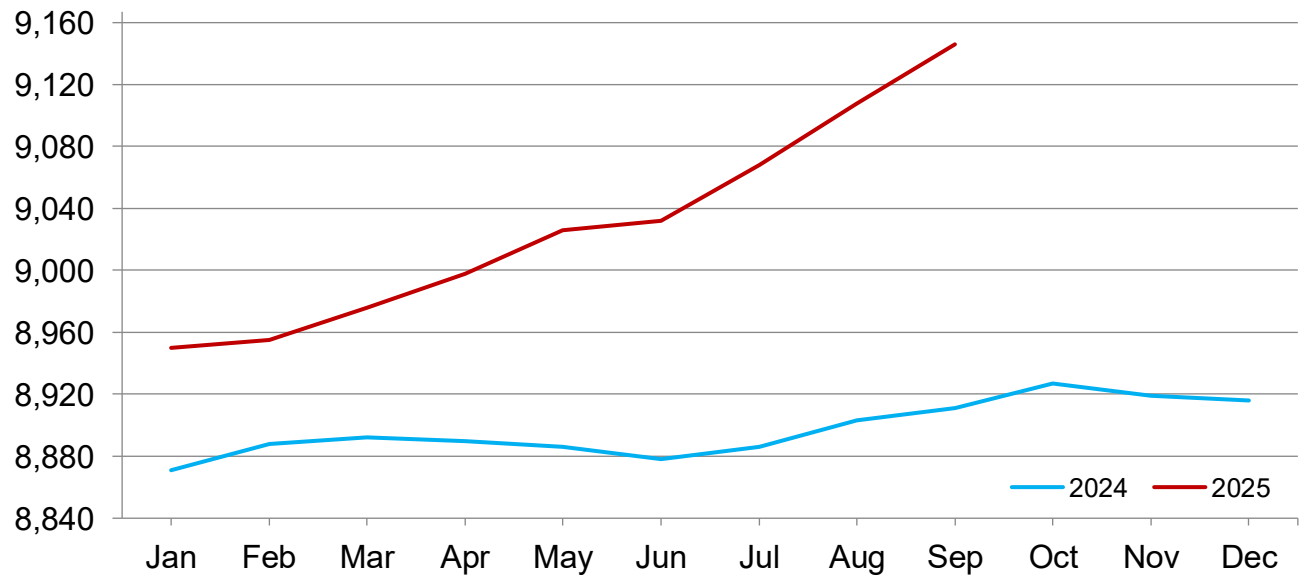
[May not add due to rounding]

| State | Milk cows [1] | | Milk per cow [2] | | Milk production [2] | | |
|---|---|---|---|---|---|---|---|
| | 2024 | 2025 | 2024 | 2025 | 2024 | 2025 | Change from 2024 |
| | (1,000 head) | (1,000 head) | (pounds) | (pounds) | (million pounds) | (million pounds) | (percent) |
| Arizona | 192 | 202 | 1,850 | 1,860 | 355 | 376 | 5.9 |
| California | 1,708 | 1,713 | 1,880 | 1,920 | 3,211 | 3,289 | 2.4 |
| Colorado | 202 | 211 | 2,140 | 2,135 | 432 | 450 | 4.2 |
| Florida | 98 | 98 | 1,520 | 1,630 | 149 | 160 | 7.4 |
| Georgia | 85 | 89 | 1,800 | 1,885 | 153 | 168 | 9.8 |
| Idaho | 672 | 725 | 2,105 | 2,130 | 1,415 | 1,544 | 9.1 |
| Illinois | 77 | 75 | 1,700 | 1,715 | 131 | 129 | -1.5 |
| Indiana | 189 | 193 | 1,930 | 1,950 | 365 | 376 | 3.0 |
| Iowa | 243 | 246 | 2,000 | 2,015 | 486 | 496 | 2.1 |
| Kansas | 181 | 219 | 1,960 | 1,965 | 355 | 430 | 21.1 |
| Michigan | 438 | 457 | 2,250 | 2,260 | 986 | 1,033 | 4.8 |
| Minnesota | 442 | 456 | 1,920 | 1,945 | 849 | 887 | 4.5 |
| New Mexico | 240 | 237 | 1,970 | 1,970 | 473 | 467 | -1.3 |
| New York | 630 | 655 | 2,080 | 2,120 | 1,310 | 1,389 | 6.0 |
| Ohio | 251 | 250 | 1,820 | 1,820 | 457 | 455 | -0.4 |
| Oregon | 118 | 123 | 1,710 | 1,740 | 202 | 214 | 5.9 |
| Pennsylvania | 465 | 460 | 1,675 | 1,700 | 779 | 782 | 0.4 |
| South Dakota | 215 | 234 | 1,935 | 1,945 | 416 | 455 | 9.4 |
| Texas | 670 | 706 | 2,085 | 2,125 | 1,397 | 1,500 | 7.4 |
| Utah | 91 | 98 | 1,910 | 1,920 | 174 | 188 | 8.0 |
| Vermont | 113 | 116 | 1,750 | 1,785 | 198 | 207 | 4.5 |
| Virginia | 66 | 67 | 1,645 | 1,665 | 109 | 112 | 2.8 |
| Washington | 259 | 236 | 1,990 | 1,995 | 515 | 471 | -8.5 |
| Wisconsin | 1,266 | 1,280 | 2,075 | 2,110 | 2,627 | 2,701 | 2.8 |
| 24-State Total | 8,911 | 9,146 | 1,969 | 1,999 | 17,544 | 18,279 | 4.2 |

[1] Includes dry cows. Excludes heifers not yet fresh.
[2] Excludes milk sucked by calves.

## Monthly Milk Cows - 24 Selected States

Thousand head



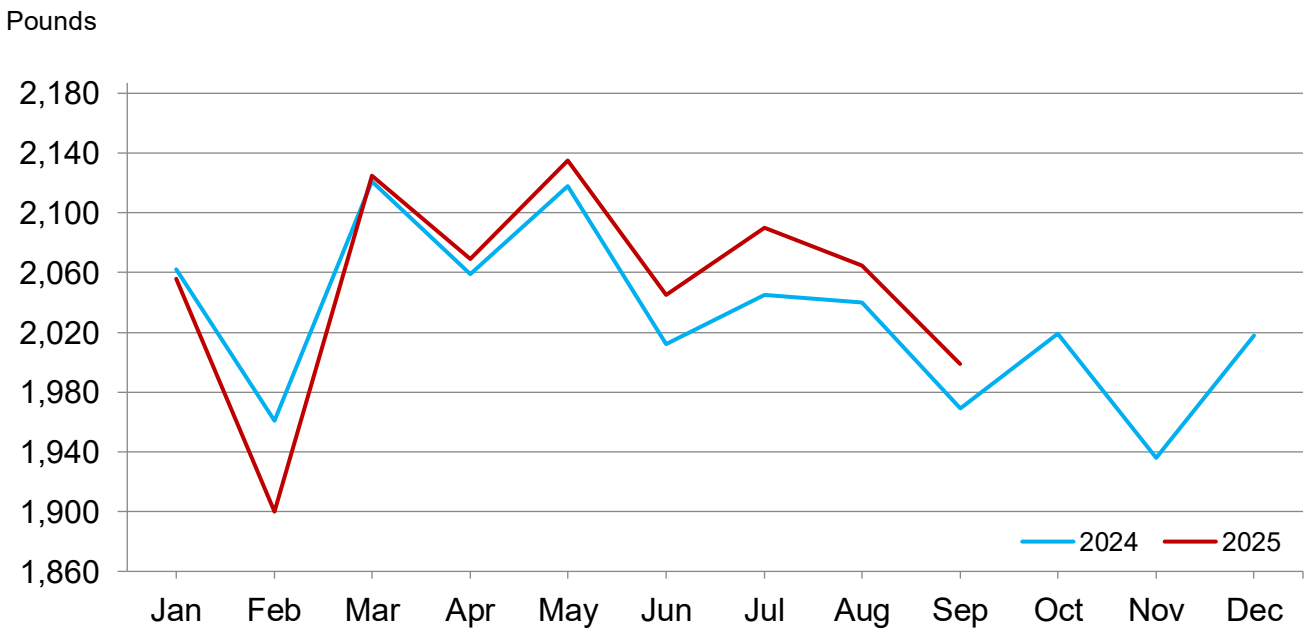
## Milk Cows and Production – 24 Selected States: August 2024 and 2025

[May not add due to rounding]

| State | Milk cows [1] | | Milk per cow [2] | | Milk production [2] | | |
|---|---|---|---|---|---|---|---|
| | 2024 | 2025 | 2024 | 2025 | 2024 | 2025 | Change from 2024 |
| | (1,000 head) | (1,000 head) | (pounds) | (pounds) | (million pounds) | (million pounds) | (percent) |
| Arizona | 192 | 202 | 1,860 | 1,890 | 357 | 382 | 7.0 |
| California | 1,707 | 1,715 | 1,980 | 1,990 | 3,380 | 3,413 | 1.0 |
| Colorado | 200 | 211 | 2,205 | 2,210 | 441 | 466 | 5.7 |
| Florida | 98 | 97 | 1,590 | 1,675 | 156 | 162 | 3.8 |
| Georgia | 85 | 89 | 1,850 | 1,930 | 157 | 172 | 9.6 |
| Idaho | 672 | 722 | 2,200 | 2,220 | 1,478 | 1,603 | 8.5 |
| Illinois | 77 | 75 | 1,740 | 1,750 | 134 | 131 | -2.2 |
| Indiana | 189 | 190 | 1,985 | 1,990 | 375 | 378 | 0.8 |
| Iowa | 241 | 244 | 2,060 | 2,065 | 496 | 504 | 1.6 |
| Kansas | 178 | 218 | 2,005 | 2,010 | 357 | 438 | 22.7 |
| Michigan | 437 | 454 | 2,320 | 2,340 | 1,014 | 1,062 | 4.7 |
| Minnesota | 442 | 450 | 1,965 | 2,005 | 869 | 902 | 3.8 |
| New Mexico | 239 | 237 | 2,010 | 2,020 | 480 | 479 | -0.2 |
| New York | 630 | 648 | 2,160 | 2,205 | 1,361 | 1,429 | 5.0 |
| Ohio | 252 | 250 | 1,910 | 1,905 | 481 | 476 | -1.0 |
| Oregon | 118 | 123 | 1,785 | 1,800 | 211 | 221 | 4.7 |
| Pennsylvania | 465 | 460 | 1,725 | 1,755 | 802 | 807 | 0.6 |
| South Dakota | 214 | 234 | 1,990 | 1,995 | 426 | 467 | 9.6 |
| Texas | 670 | 699 | 2,155 | 2,190 | 1,444 | 1,531 | 6.0 |
| Utah | 92 | 98 | 1,980 | 1,995 | 182 | 196 | 7.7 |
| Vermont | 113 | 115 | 1,825 | 1,870 | 206 | 215 | 4.4 |
| Virginia | 66 | 66 | 1,720 | 1,735 | 114 | 115 | 0.9 |
| Washington | 260 | 237 | 2,055 | 2,050 | 534 | 486 | -9.0 |
| Wisconsin | 1,266 | 1,274 | 2,140 | 2,180 | 2,709 | 2,777 | 2.5 |
| 24-State Total | 8,903 | 9,108 | 2,040 | 2,065 | 18,164 | 18,812 | 3.6 |

[1] Includes dry cows. Excludes heifers not yet fresh.
[2] Excludes milk sucked by calves.

## Monthly Milk Per Cow - 24 Selected States



## Milk Cows and Production – States and United States: Revised April - June 2024 and 2025

[May not add due to rounding]

| State | April - June milk cows [1] | | April - June milk production [2] | | |
|---|---|---|---|---|---|
| | 2024 | 2025 | 2024 | 2025 | Change from 2024 |
| | (1,000 head) | (1,000 head) | (million pounds) | (million pounds) | (percent) |
| Alabama | 2.5 | (D) | 7.5 | (D) | (NA) |
| Alaska | (D) | (D) | (D) | (D) | (NA) |
| Arizona | 192.0 | 191.0 | 1,224.0 | 1,224.0 | - |
| Arkansas | 2.0 | (D) | 7.0 | (D) | (NA) |
| California | 1,708.0 | 1,710.0 | 10,453.0 | 10,465.0 | 0.1 |
| Colorado | 203.0 | 210.0 | 1,316.0 | 1,378.0 | 4.7 |
| Connecticut | 17.5 | (D) | 108.0 | (D) | (NA) |
| Delaware | 2.6 | (D) | 12.3 | (D) | (NA) |
| Florida | 100.0 | 96.0 | 537.0 | 542.0 | 0.9 |
| Georgia | 85.0 | 87.0 | 490.0 | 528.0 | 7.8 |
| Hawaii | (D) | (D) | (D) | (D) | (NA) |
| Idaho | 667.0 | 705.0 | 4,248.0 | 4,573.0 | 7.7 |
| Illinois | 78.0 | 76.0 | 440.0 | 428.0 | -2.7 |
| Indiana | 189.0 | 191.0 | 1,139.0 | 1,158.0 | 1.7 |
| Iowa | 243.0 | 243.0 | 1,520.0 | 1,535.0 | 1.0 |
| Kansas | 173.0 | 201.0 | 1,036.0 | 1,223.0 | 18.1 |
| Kentucky | 43.0 | 40.0 | 225.0 | 214.0 | -4.9 |
| Louisiana | 7.5 | (D) | 25.0 | (D) | (NA) |
| Maine | 24.0 | 24.0 | 141.0 | 140.0 | -0.7 |
| Maryland | 38.0 | 39.0 | 199.0 | 210.0 | 5.5 |
| Massachusetts | 9.0 | (D) | 47.0 | (D) | (NA) |
| Michigan | 437.0 | 450.0 | 3,046.0 | 3,150.0 | 3.4 |
| Minnesota | 445.0 | 443.0 | 2,625.0 | 2,678.0 | 2.0 |
| Mississippi | 5.5 | (D) | 18.0 | (D) | (NA) |
| Missouri | 58.0 | 55.0 | 218.0 | 205.0 | -6.0 |
| Montana | 8.5 | (D) | 50.0 | (D) | (NA) |
| Nebraska | 50.0 | 50.0 | 314.0 | 314.0 | - |
| Nevada | 31.0 | 34.0 | 195.0 | 215.0 | 10.3 |
| New Hampshire | 9.5 | (D) | 52.0 | (D) | (NA) |
| New Jersey | 4.0 | (D) | 22.0 | (D) | (NA) |
| New Mexico | 237.0 | 239.0 | 1,495.0 | 1,510.0 | 1.0 |
| New York | 630.0 | 636.0 | 4,095.0 | 4,166.0 | 1.7 |
| North Carolina | 38.0 | 35.0 | 225.0 | 210.0 | -6.7 |
| North Dakota | 9.5 | (D) | 57.0 | (D) | (NA) |
| Ohio | 253.0 | 253.0 | 1,437.0 | 1,466.0 | 2.0 |
| Oklahoma | 40.0 | 43.0 | 190.0 | 206.0 | 8.4 |
| Oregon | 118.0 | 117.0 | 633.0 | 625.0 | -1.3 |
| Pennsylvania | 465.0 | 462.0 | 2,490.0 | 2,488.0 | -0.1 |
| Rhode Island | 0.5 | (D) | 2.2 | (D) | (NA) |
| South Carolina | 8.0 | (D) | 39.0 | (D) | (NA) |
| South Dakota | 212.0 | 232.0 | 1,230.0 | 1,357.0 | 10.3 |
| Tennessee | 24.0 | 22.0 | 115.0 | 105.0 | -8.7 |
| Texas | 645.0 | 693.0 | 4,180.0 | 4,584.0 | 9.7 |
| Utah | 91.0 | 95.0 | 541.0 | 564.0 | 4.3 |
| Vermont | 114.0 | 113.0 | 627.0 | 632.0 | 0.8 |
| Virginia | 67.0 | 67.0 | 357.0 | 361.0 | 1.1 |
| Washington | 260.0 | 243.0 | 1,603.0 | 1,492.0 | -6.9 |
| West Virginia | 4.0 | (D) | 15.0 | (D) | (NA) |
| Wisconsin | 1,271.0 | 1,265.0 | 8,225.0 | 8,234.0 | 0.1 |
| Wyoming | 9.0 | (D) | 59.4 | (D) | (NA) |
| Other States [3] | 0.9 | 98.3 | 2.1 | 517.2 | (NA) |
| United States | 9,330.0 | 9,458.0 | 57,333.0 | 58,697.0 | 2.4 |

- Represents zero.
(D) Withheld to avoid disclosing data for individual operations.
(NA) Not available.
[1] Includes dry cows. Excludes heifers not yet fresh.
[2] Excludes milk sucked by calves.
[3] Other States includes Alaska and Hawaii.

## Milk Cows and Production – States and United States: Preliminary July - September 2024 and 2025

[May not add due to rounding]

| State | July - September milk cows [1] | | July - September milk production [2] | | |
|---|---|---|---|---|---|
| | 2024 | 2025 | 2024 | 2025 | Change from 2024 |
| | (1,000 head) | (1,000 head) | (million pounds) | (million pounds) | (percent) |
| Alabama | 2.0 | (D) | 5.5 | (D) | (NA) |
| Alaska | (D) | (D) | (D) | (D) | (NA) |
| Arizona | 191.0 | 200.0 | 1,074.0 | 1,140.0 | 6.1 |
| Arkansas | 2.0 | (D) | 6.0 | (D) | (NA) |
| California | 1,707.0 | 1,714.0 | 9,903.0 | 10,209.0 | 3.1 |
| Colorado | 201.0 | 211.0 | 1,304.0 | 1,384.0 | 6.1 |
| Connecticut | 17.5 | (D) | 105.0 | (D) | (NA) |
| Delaware | 2.6 | (D) | 10.8 | (D) | (NA) |
| Florida | 98.0 | 97.0 | 471.0 | 493.0 | 4.7 |
| Georgia | 85.0 | 89.0 | 467.0 | 514.0 | 10.1 |
| Hawaii | (D) | (D) | (D) | (D) | (NA) |
| Idaho | 670.0 | 723.0 | 4,360.0 | 4,755.0 | 9.1 |
| Illinois | 77.0 | 75.0 | 405.0 | 394.0 | -2.7 |
| Indiana | 189.0 | 191.0 | 1,121.0 | 1,134.0 | 1.2 |
| Iowa | 242.0 | 244.0 | 1,484.0 | 1,508.0 | 1.6 |
| Kansas | 179.0 | 217.0 | 1,066.0 | 1,296.0 | 21.6 |
| Kentucky | 41.0 | 38.0 | 198.0 | 184.0 | -7.1 |
| Louisiana | 6.5 | (D) | 18.0 | (D) | (NA) |
| Maine | 24.0 | 24.0 | 136.0 | 138.0 | 1.5 |
| Maryland | 38.0 | 37.0 | 197.0 | 191.0 | -3.0 |
| Massachusetts | 9.0 | (D) | 45.0 | (D) | (NA) |
| Michigan | 437.0 | 455.0 | 3,029.0 | 3,162.0 | 4.4 |
| Minnesota | 442.0 | 450.0 | 2,593.0 | 2,692.0 | 3.8 |
| Mississippi | 5.0 | (D) | 13.5 | (D) | (NA) |
| Missouri | 56.0 | 53.0 | 186.0 | 177.0 | -4.8 |
| Montana | 8.5 | (D) | 49.0 | (D) | (NA) |
| Nebraska | 50.0 | 50.0 | 309.0 | 305.0 | -1.3 |
| Nevada | 31.0 | 34.0 | 196.0 | 217.0 | 10.7 |
| New Hampshire | 9.5 | (D) | 50.0 | (D) | (NA) |
| New Jersey | 3.9 | (D) | 20.0 | (D) | (NA) |
| New Mexico | 239.0 | 237.0 | 1,444.0 | 1,433.0 | -0.8 |
| New York | 630.0 | 647.0 | 4,044.0 | 4,240.0 | 4.8 |
| North Carolina | 37.0 | 35.0 | 201.0 | 197.0 | -2.0 |
| North Dakota | 9.5 | (D) | 57.0 | (D) | (NA) |
| Ohio | 252.0 | 250.0 | 1,422.0 | 1,412.0 | -0.7 |
| Oklahoma | 41.0 | 44.0 | 176.0 | 190.0 | 8.0 |
| Oregon | 118.0 | 122.0 | 624.0 | 653.0 | 4.6 |
| Pennsylvania | 465.0 | 460.0 | 2,388.0 | 2,399.0 | 0.5 |
| Rhode Island | 0.5 | (D) | 2.0 | (D) | (NA) |
| South Carolina | 8.0 | (D) | 32.0 | (D) | (NA) |
| South Dakota | 214.0 | 234.0 | 1,265.0 | 1,391.0 | 10.0 |
| Tennessee | 24.0 | 22.0 | 109.0 | 97.0 | -11.0 |
| Texas | 667.0 | 701.0 | 4,263.0 | 4,572.0 | 7.2 |
| Utah | 92.0 | 98.0 | 541.0 | 582.0 | 7.6 |
| Vermont | 113.0 | 115.0 | 611.0 | 636.0 | 4.1 |
| Virginia | 66.0 | 66.0 | 337.0 | 342.0 | 1.5 |
| Washington | 260.0 | 237.0 | 1,579.0 | 1,448.0 | -8.3 |
| West Virginia | 4.0 | (D) | 14.5 | (D) | (NA) |
| Wisconsin | 1,267.0 | 1,274.0 | 8,088.0 | 8,253.0 | 2.0 |
| Wyoming | 9.0 | (D) | 63.9 | (D) | (NA) |
| Other States [3] | 0.9 | 95.8 | 2.1 | 483.0 | (NA) |
| United States | 9,341.0 | 9,540.0 | 56,085.0 | 58,221.0 | 3.8 |

(D) Withheld to avoid disclosing data for individual operations.
(NA) Not available.
[1] Includes dry cows. Excludes heifers not yet fresh.
[2] Excludes milk sucked by calves.
[3] Other States includes states not published.

## Statistical Methodology

**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. 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. Where feasible, States utilize state and federal administrative data to estimate milk production. This eliminates duplication of data gathering by different government agencies. Indications of milk cow inventory are also obtained in the January Cattle Surveys.

**Estimation Procedures**: Regional Field Offices prepare these estimates by using a combination of 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, milk per cow, and number of milk cows are subject to revision the following month after initial publication for monthly States or the following quarter for the quarterly States. Normally, administrative data from Federal Market Orders, State Departments of Agriculture, or other sources are the main basis for revisions. However, administrative data for all States may not be available in time for these revisions. 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 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 on the next page. 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 production estimates over the past 20 quarters is 0.1 percent. This means that chances are 2 out of 3 that the final estimate will not be above or below the current estimate of 58.2 billion pounds by more than 0.1 percent. Chances are 9 out of 10 that the difference will not exceed 0.2 percent.

## Reliability of Quarterly Milk Production Estimates

[Based on data for the past 20 quarters]

| Item | Root mean square error | 90 percent confidence level | Difference between first and latest estimate | | | | |
|---|---|---|---|---|---|---|---|
| | | | Average | Smallest | Largest | Quarters | |
| | | | | | | Below latest | Above latest |
| | (percent) | (percent) | (1,000) | (1,000) | (1,000) | (number) | (number) |
| Milk production | 0.1 | 0.2 | 65 | 1 | 184 | 10 | 10 |
| All milk cows | 0.1 | 0.2 | 8 | 1 | 29 | 9 | 11 |

## Information Contacts

Listed below are the commodity specialists in the Livestock Branch of the National Agricultural Statistics Service to contact for additional information. E-mail inquiries may be sent to nass@usda.gov.

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Ryan Cowen – Cattle, Cattle on Feed..... (202) 720-3040
Kim DaPra – Milk Production..... (202) 720-3278
Fatema Haque – Poultry Slaughter, Turkey Hatchery, Turkeys Raised..... (202) 720-3244
Derron Martin – Catfish, Census of Aquaculture, Egg Products, Mink, Trout ..... (202) 690-3237
Ralph Mondesir – Hogs and Pigs ..... (202) 720-3106
Suzanne Richards – Cost of Pollination, Honey, Honey Bee Colonies, Sheep and Goats ..... (202) 720-4448
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