Released November 18, 2020, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

October Milk Production up 2.5 Percent

Milk production in the 24 major States during October totaled 17.7 billion pounds, up 2.5 percent from October 2019. September revised production, at 17.2 billion pounds, was up 2.4 percent from September 2019. The September revision represented a decrease of 5 million pounds or less than 0.1 percent from last month's preliminary production estimate.

Production per cow in the 24 major States averaged 1,997 pounds for October, 35 pounds above October 2019.

The number of milk cows on farms in the 24 major States was 8.88 million head, 62,000 head more than October 2019, and 17,000 head more than September 2020.

October Milk Production in the United States up 2.3 Percent

Milk production in the United States during October totaled 18.6 billion pounds, up 2.3 percent from October 2019.

Production per cow in the United States averaged 1,977 pounds for October, 37 pounds above October 2019.

The number of milk cows on farms in the United States was 9.39 million head, 43,000 head more than October 2019, and 14,000 head more than September 2020.

Monthly Milk Production - 24 Selected States

Million pounds

[Graph showing monthly milk production for 2019 and 2020 in the 24 selected states, with data points for each month from January to December, indicating fluctuations in production.]
### Milk Cows and Production by Quarter - United States: 2019-2020

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

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Milk cows ¹</th>
<th>Milk per cow ²</th>
<th>Milk production ²</th>
<th>Change from 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019 (1,000 head)</td>
<td>2020 (1,000 head)</td>
<td>2019 (pounds)</td>
<td>2020 (pounds)</td>
</tr>
<tr>
<td>January-March</td>
<td>9,346</td>
<td>9,374</td>
<td>5,823</td>
<td>5,988</td>
</tr>
<tr>
<td>April-June</td>
<td>9,331</td>
<td>9,362</td>
<td>5,971</td>
<td>5,981</td>
</tr>
<tr>
<td>July-September</td>
<td>9,322</td>
<td>9,365</td>
<td>5,818</td>
<td>5,907</td>
</tr>
<tr>
<td>October-December</td>
<td>9,345</td>
<td>9,377</td>
<td>5,779</td>
<td>5,606</td>
</tr>
<tr>
<td>Annual</td>
<td>9,336</td>
<td>23,391</td>
<td></td>
<td>218,382</td>
</tr>
</tbody>
</table>

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

### Milk Cows and Production by Month – 24 Selected States: 2019-2020

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

<table>
<thead>
<tr>
<th>Month</th>
<th>Milk cows ¹</th>
<th>Milk per cow ²</th>
<th>Milk production ²</th>
<th>Change from 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019 (1,000 head)</td>
<td>2020 (1,000 head)</td>
<td>2019 (pounds)</td>
<td>2020 (pounds)</td>
</tr>
<tr>
<td>January</td>
<td>8,805</td>
<td>8,834</td>
<td>2,010</td>
<td>2,033</td>
</tr>
<tr>
<td>February</td>
<td>8,803</td>
<td>8,848</td>
<td>1,833</td>
<td>1,925</td>
</tr>
<tr>
<td>March</td>
<td>8,789</td>
<td>8,857</td>
<td>2,038</td>
<td>2,084</td>
</tr>
<tr>
<td>April</td>
<td>8,788</td>
<td>8,852</td>
<td>1,996</td>
<td>2,008</td>
</tr>
<tr>
<td>May</td>
<td>8,790</td>
<td>8,836</td>
<td>2,063</td>
<td>2,043</td>
</tr>
<tr>
<td>June</td>
<td>8,784</td>
<td>8,827</td>
<td>1,974</td>
<td>1,981</td>
</tr>
<tr>
<td>July</td>
<td>8,785</td>
<td>8,840</td>
<td>1,997</td>
<td>2,024</td>
</tr>
<tr>
<td>August</td>
<td>8,799</td>
<td>8,845</td>
<td>1,984</td>
<td>2,008</td>
</tr>
<tr>
<td>September</td>
<td>8,805</td>
<td>8,864</td>
<td>1,908</td>
<td>1,941</td>
</tr>
<tr>
<td>October</td>
<td>8,819</td>
<td>8,881</td>
<td>1,962</td>
<td>1,997</td>
</tr>
<tr>
<td>November</td>
<td>8,817</td>
<td>1,894</td>
<td></td>
<td></td>
</tr>
<tr>
<td>December</td>
<td>8,816</td>
<td>1,987</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Annual</td>
<td>8,799</td>
<td>23,646</td>
<td></td>
<td>208,062</td>
</tr>
</tbody>
</table>

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

### Estimated Milk Cows and Production by Month – United States: 2019-2020

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

<table>
<thead>
<tr>
<th>Month</th>
<th>Milk cows ¹</th>
<th>Milk per cow ²</th>
<th>Milk production ²</th>
<th>Change from 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019 (1,000 head)</td>
<td>2020 (1,000 head)</td>
<td>2019 (pounds)</td>
<td>2020 (pounds)</td>
</tr>
<tr>
<td>January</td>
<td>9,354</td>
<td>9,361</td>
<td>1,990</td>
<td>2,015</td>
</tr>
<tr>
<td>February</td>
<td>9,352</td>
<td>9,375</td>
<td>1,814</td>
<td>1,908</td>
</tr>
<tr>
<td>March</td>
<td>9,333</td>
<td>9,385</td>
<td>2,019</td>
<td>2,065</td>
</tr>
<tr>
<td>April</td>
<td>9,332</td>
<td>9,375</td>
<td>1,975</td>
<td>1,992</td>
</tr>
<tr>
<td>May</td>
<td>9,333</td>
<td>9,360</td>
<td>2,042</td>
<td>2,025</td>
</tr>
<tr>
<td>June</td>
<td>9,327</td>
<td>9,350</td>
<td>1,954</td>
<td>1,964</td>
</tr>
<tr>
<td>July</td>
<td>9,315</td>
<td>9,357</td>
<td>1,973</td>
<td>2,001</td>
</tr>
<tr>
<td>August</td>
<td>9,318</td>
<td>9,361</td>
<td>1,960</td>
<td>1,986</td>
</tr>
<tr>
<td>September</td>
<td>9,333</td>
<td>9,376</td>
<td>1,885</td>
<td>1,920</td>
</tr>
<tr>
<td>October</td>
<td>9,347</td>
<td>9,390</td>
<td>1,940</td>
<td>1,977</td>
</tr>
<tr>
<td>November</td>
<td>9,345</td>
<td>1,873</td>
<td></td>
<td></td>
</tr>
<tr>
<td>December</td>
<td>9,343</td>
<td>1,966</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Annual</td>
<td>9,336</td>
<td>23,391</td>
<td></td>
<td>218,382</td>
</tr>
</tbody>
</table>

¹ Includes dry cows. Excludes heifers not yet fresh.
² Excludes milk sucked by calves.
## Monthly Milk Cows - 24 Selected States

<table>
<thead>
<tr>
<th>State</th>
<th>Milk cows</th>
<th>Milk per cow</th>
<th>Milk production</th>
<th>Change from 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arizona</td>
<td>197</td>
<td>196</td>
<td>1,985</td>
<td>1,965</td>
</tr>
<tr>
<td>California</td>
<td>1,725</td>
<td>1,720</td>
<td>1,940</td>
<td>1,970</td>
</tr>
<tr>
<td>Colorado</td>
<td>190</td>
<td>200</td>
<td>2,160</td>
<td>2,185</td>
</tr>
<tr>
<td>Florida</td>
<td>118</td>
<td>113</td>
<td>1,515</td>
<td>1,560</td>
</tr>
<tr>
<td>Georgia</td>
<td>81</td>
<td>80</td>
<td>1,715</td>
<td>1,725</td>
</tr>
<tr>
<td>Idaho</td>
<td>632</td>
<td>646</td>
<td>2,095</td>
<td>2,105</td>
</tr>
<tr>
<td>Illinois</td>
<td>81</td>
<td>84</td>
<td>1,690</td>
<td>1,760</td>
</tr>
<tr>
<td>Indiana</td>
<td>176</td>
<td>191</td>
<td>1,920</td>
<td>1,960</td>
</tr>
<tr>
<td>Iowa</td>
<td>217</td>
<td>219</td>
<td>2,040</td>
<td>2,085</td>
</tr>
<tr>
<td>Kansas</td>
<td>164</td>
<td>171</td>
<td>1,975</td>
<td>1,965</td>
</tr>
<tr>
<td>Michigan</td>
<td>428</td>
<td>431</td>
<td>2,230</td>
<td>2,280</td>
</tr>
<tr>
<td>Minnesota</td>
<td>447</td>
<td>444</td>
<td>1,845</td>
<td>1,905</td>
</tr>
<tr>
<td>New Mexico</td>
<td>330</td>
<td>332</td>
<td>2,040</td>
<td>2,065</td>
</tr>
<tr>
<td>New York</td>
<td>626</td>
<td>626</td>
<td>2,015</td>
<td>2,035</td>
</tr>
<tr>
<td>Ohio</td>
<td>252</td>
<td>256</td>
<td>1,790</td>
<td>1,850</td>
</tr>
<tr>
<td>Oregon</td>
<td>126</td>
<td>124</td>
<td>1,745</td>
<td>1,735</td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>485</td>
<td>482</td>
<td>1,705</td>
<td>1,760</td>
</tr>
<tr>
<td>South Dakota</td>
<td>127</td>
<td>140</td>
<td>1,900</td>
<td>1,945</td>
</tr>
<tr>
<td>Texas</td>
<td>575</td>
<td>603</td>
<td>2,035</td>
<td>2,100</td>
</tr>
<tr>
<td>Utah</td>
<td>97</td>
<td>94</td>
<td>1,945</td>
<td>1,940</td>
</tr>
<tr>
<td>Vermont</td>
<td>125</td>
<td>120</td>
<td>1,790</td>
<td>1,765</td>
</tr>
<tr>
<td>Virginia</td>
<td>74</td>
<td>74</td>
<td>1,620</td>
<td>1,660</td>
</tr>
<tr>
<td>Washington</td>
<td>281</td>
<td>279</td>
<td>2,025</td>
<td>2,030</td>
</tr>
<tr>
<td>Wisconsin</td>
<td>1,265</td>
<td>1,256</td>
<td>2,010</td>
<td>2,060</td>
</tr>
<tr>
<td>24-State Total</td>
<td>8,819</td>
<td>8,881</td>
<td>1,962</td>
<td>1,997</td>
</tr>
</tbody>
</table>

1 Includes dry cows. Excludes heifers not yet fresh.
2 Excludes milk sucked by calves.
### Milk Cows and Production – 24 Selected States: September 2019 and 2020

[May not add due to rounding]

<table>
<thead>
<tr>
<th>Milk cows ¹</th>
<th>Milk per cow ²</th>
<th>Milk production ²</th>
<th>Change from 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(1,000 head)</td>
<td>(1,000 head)</td>
<td>(pounds)</td>
</tr>
<tr>
<td>Arizona</td>
<td>196</td>
<td>196</td>
<td>1,825</td>
</tr>
<tr>
<td>California</td>
<td>1,725</td>
<td>1,721</td>
<td>1,860</td>
</tr>
<tr>
<td>Colorado</td>
<td>189</td>
<td>199</td>
<td>2,110</td>
</tr>
<tr>
<td>Florida</td>
<td>116</td>
<td>112</td>
<td>1,415</td>
</tr>
<tr>
<td>Georgia</td>
<td>80</td>
<td>80</td>
<td>1,640</td>
</tr>
<tr>
<td>Idaho</td>
<td>630</td>
<td>645</td>
<td>2,060</td>
</tr>
<tr>
<td>Indiana</td>
<td>175</td>
<td>190</td>
<td>1,835</td>
</tr>
<tr>
<td>Iowa</td>
<td>217</td>
<td>219</td>
<td>1,970</td>
</tr>
<tr>
<td>Kansas</td>
<td>163</td>
<td>171</td>
<td>1,910</td>
</tr>
<tr>
<td>Michigan</td>
<td>428</td>
<td>430</td>
<td>2,170</td>
</tr>
<tr>
<td>Minnesota</td>
<td>447</td>
<td>444</td>
<td>1,810</td>
</tr>
<tr>
<td>New Mexico</td>
<td>329</td>
<td>327</td>
<td>2,030</td>
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<tr>
<td>New York</td>
<td>627</td>
<td>626</td>
<td>1,970</td>
</tr>
<tr>
<td>Ohio</td>
<td>252</td>
<td>254</td>
<td>1,735</td>
</tr>
<tr>
<td>Oregon</td>
<td>124</td>
<td>124</td>
<td>1,700</td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>485</td>
<td>482</td>
<td>1,650</td>
</tr>
<tr>
<td>South Dakota</td>
<td>126</td>
<td>140</td>
<td>1,865</td>
</tr>
<tr>
<td>Texas</td>
<td>570</td>
<td>598</td>
<td>1,995</td>
</tr>
<tr>
<td>Utah</td>
<td>97</td>
<td>94</td>
<td>1,925</td>
</tr>
<tr>
<td>Vermont</td>
<td>125</td>
<td>120</td>
<td>1,750</td>
</tr>
<tr>
<td>Virginia</td>
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<td>74</td>
<td>1,555</td>
</tr>
<tr>
<td>Washington</td>
<td>281</td>
<td>279</td>
<td>2,005</td>
</tr>
<tr>
<td>Wisconsin</td>
<td>1,266</td>
<td>1,256</td>
<td>1,975</td>
</tr>
</tbody>
</table>

- Represents zero.

¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

### Monthly Milk Per Cow - 24 Selected States

<table>
<thead>
<tr>
<th>Pounds</th>
<th>2019</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan</td>
<td>2,000</td>
<td>2,020</td>
</tr>
<tr>
<td>Feb</td>
<td>1,950</td>
<td>1,970</td>
</tr>
<tr>
<td>Mar</td>
<td>1,900</td>
<td>1,920</td>
</tr>
<tr>
<td>Apr</td>
<td>1,850</td>
<td>1,870</td>
</tr>
<tr>
<td>May</td>
<td>1,800</td>
<td>1,820</td>
</tr>
<tr>
<td>Jun</td>
<td>1,750</td>
<td>1,770</td>
</tr>
<tr>
<td>Jul</td>
<td>1,700</td>
<td>1,720</td>
</tr>
<tr>
<td>Aug</td>
<td>1,650</td>
<td>1,670</td>
</tr>
<tr>
<td>Sep</td>
<td>1,600</td>
<td>1,620</td>
</tr>
<tr>
<td>Oct</td>
<td>1,550</td>
<td>1,570</td>
</tr>
<tr>
<td>Nov</td>
<td>1,500</td>
<td>1,520</td>
</tr>
<tr>
<td>Dec</td>
<td>1,450</td>
<td>1,470</td>
</tr>
</tbody>
</table>
**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 such as Agricultural Marketing Service (AMS) Dairy Market News. Indications of milk cow inventory are also obtained in the January Cattle Survey.

**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 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 the 24 State milk production estimates over the past 24 months is 0.3 percent. This means that chances are 2 out of 3 that the final estimate will not be above or below the current estimate of 17.7 billion pounds by more than 0.3 percent. Chances are 9 out of 10 that the difference will not exceed 0.5 percent.

**Reliability of Monthly Milk Production Estimates**

[Based on data for the past 24 months]

<table>
<thead>
<tr>
<th>Item</th>
<th>Root mean square error</th>
<th>90 percent confidence level</th>
<th>Difference between first and latest estimate</th>
<th>Months</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(percent)</td>
<td>(percent)</td>
<td>(1,000) (1,000) (1,000) (number) (number)</td>
<td></td>
</tr>
<tr>
<td>Milk production</td>
<td>0.3</td>
<td>0.5</td>
<td>36 0 115 15</td>
<td>8</td>
</tr>
<tr>
<td>All Milk cows</td>
<td>0.1</td>
<td>0.1</td>
<td>6 0 16 17</td>
<td>5</td>
</tr>
</tbody>
</table>
**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.

Travis Averill, Chief, Livestock Branch .......................................................................................... (202) 692-0069

Scott Hollis, Head, Livestock Section .................................................................................................. (202) 690-2424
  Sherry Bertramsen – Livestock Slaughter .................................................................................. (202) 690-8632
  Holly Brenize – Sheep and Goats .................................................................................................. (202) 720-0585
  Ryan Cowen – Cattle, Cattle on Feed .......................................................................................... (202) 720-3040
  Mike Miller – Milk Production and Milk Cows ........................................................................... (202) 720-3278
  Suzanne Richards – Dairy Products ............................................................................................... (202) 720-4448
  Seth Riggins – Hogs and Pigs ...................................................................................................... (202) 720-3106

**Access to NASS Reports**

For your convenience, you may access NASS reports and products the following ways:

- All reports are available electronically, at no cost, on the NASS web site: [www.nass.usda.gov](http://www.nass.usda.gov)

- Both national and state specific reports are available via a free e-mail subscription. To set-up this free subscription, visit [www.nass.usda.gov](http://www.nass.usda.gov) and click on “National” or “State” in upper right corner above “search” box to create an account and select the reports you would like to receive.

- Cornell’s Mann Library has launched a new website housing NASS’s and other agency’s archived reports. The new website, [https://usda.library.cornell.edu](https://usda.library.cornell.edu). All email subscriptions containing reports will be sent from the new website, [https://usda.library.cornell.edu](https://usda.library.cornell.edu). To continue receiving the reports via e-mail, you will have to go to the new website, create a new account and re-subscribe to the reports. If you need instructions to set up an account or subscribe, they are located at: [https://usda.library.cornell.edu/help](https://usda.library.cornell.edu/help). You should whitelist notifications@usda-esmis.library.cornell.edu in your email client to avoid the emails going into spam/junk folders.

For more information on NASS surveys and reports, call the NASS Agricultural Statistics Hotline at (800) 727-9540, 7:30 a.m. to 4:00 p.m. ET, or e-mail: nass@usda.gov.

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