## Milk Production



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#### **October Milk Production up 1.0 Percent**

**Milk production** in the 23 major States during October totaled 16.9 billion pounds, up 1.0 percent from October 2017. September revised production, at 16.4 billion pounds, was up 1.5 percent from September 2017. The September revision represented a decrease of 2 million pounds or less than 0.1 percent from last month's preliminary production estimate.

**Production per cow** in the 23 major States averaged 1,934 pounds for October, 20 pounds above October 2017. This is the highest production per cow for the month of October since the 23 State series began in 2003.

**The number of milk cows** on farms in the 23 major States was 8.72 million head, 8,000 head less than October 2017, and 1,000 head less than September 2018.

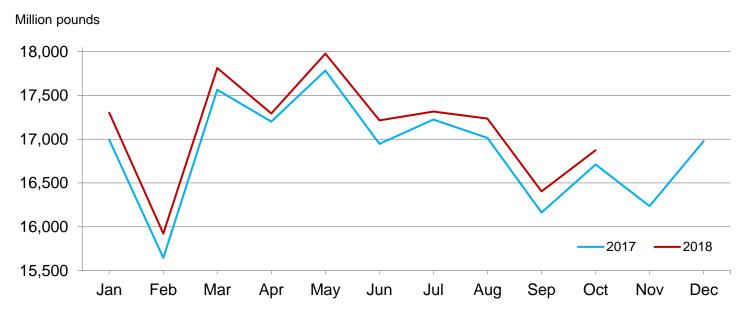
#### October Milk Production in the United States up 0.8 Percent

Milk production in the United States during October totaled 17.9 billion pounds, up 0.8 percent from October 2017.

**Production per cow** in the United States averaged 1,912 pounds for October, 21 pounds above October 2017.

**The number of milk cows** on farms in the United States was 9.37 million head, 30,000 head less than October 2017, and 2,000 head less than September 2018.

## Monthly Milk Production - 23 Selected States



## Milk Cows and Production by Quarter - United States: 2017-2018

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

	Milk cows 1		Milk pe	r cow <sup>2</sup>	Milk production <sup>2</sup>		
Quarter	2017	2018	2017	2018	2017	2018	Change from 2017
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January-March	9,399	9,406 9,402 9,375	5,717 5,888 5,687 5,649	5,780 5,936 5,756	53,562 55,344 53,473 53,087	54,367 55,808 53,964	1.5 0.8 0.9
Annual	9,392		22,941		215,466		

<sup>&</sup>lt;sup>1</sup> Includes dry cows. Excludes heifers not yet fresh.

#### Milk Cows and Production by Month - 23 Selected States: 2017-2018

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

	Milk c	ows 1	Milk pe	r cow <sup>2</sup>			
Month	2017	2018	2017	2018	2017	2018	Change from 2017
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January February March April	8,691 8,696 8,714 8,722	8,744 8,745 8,738 8,738	1,955 1,799 2,016 1,972	1,979 1,821 2,038 1,979	16,993 15,645 17,564 17,200	17,302 15,922 17,812 17,294	1.8 1.8 1.4 0.5
May June July August September October	8,730 8,733 8,734 8,741 8,737 8,731	8,745 8,743 8,734 8,736 8,724 8,723	2,037 1,941 1,972 1,946 1,850 1,914	2,056 1,969 1,982 1,973 1,880 1,934	17,783 16,947 17,224 17,014 16,162 16,710	17,976 17,214 17,315 17,235 16,403 16.874	1.1 1.6 0.5 1.3 1.5
November December	8,734 8,736 8,725	0,723	1,859 1,943 23,204	1,934	16,710 16,235 16,978 202,455	10,074	1.0

<sup>&</sup>lt;sup>1</sup> Includes dry cows. Excludes heifers not yet fresh.

#### Estimated Milk Cows and Production by Month - United States: 2017-2018

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

	Milk c	ows <sup>1</sup>	Milk pe	r cow <sup>2</sup>			
Month	2017	2018	2017	2018	2017	2018	Change from 2017
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January	9,359	9,408	1,937	1,959	18,128	18,431	1.7
February	9,365	9,408	1,783	1,803	16,694	16,961	1.6
March	9,383	9,401	1,997	2,018	18,740	18,975	1.3
April	9,392	9,400	1,952	1,956	18,332	18,390	0.3
May	9,401	9,404	2,016	2,033	18,952	19,114	0.9
June	9,404	9,402	1,920	1,947	18,060	18,304	1.4
July	9,404	9,378	1,943	1,955	18,268	18,338	0.4
August	9,404	9,379	1,919	1,946	18,049	18,252	1.1
September	9,399	9,367	1,825	1,855	17,156	17,374	1.3
October	9,395	9,365	1,891	1,912	17,769	17,905	0.8
November	9,398	·	1,837		17,260		
December	9,400		1,921		18,058		
Annual	9,392		22,941		215,466		

<sup>&</sup>lt;sup>1</sup> Includes dry cows. Excludes heifers not yet fresh.

<sup>&</sup>lt;sup>2</sup> Excludes milk sucked by calves.

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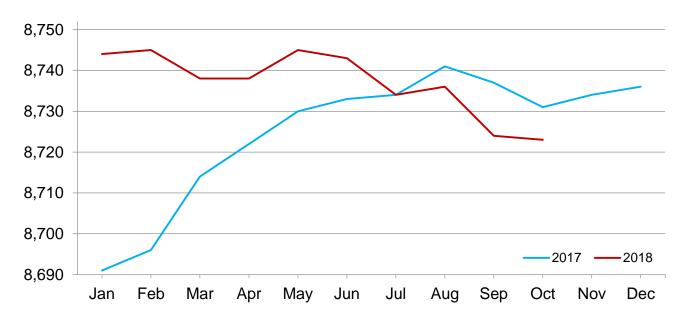
Milk Cows and Production - 23 Selected States: October 2017 and 2018

[May not add due to rounding]

	Milk c	ows 1	Milk pe	r cow <sup>2</sup>		Milk production <sup>2</sup>	
State	2017	2018	2017	2018	2017	2018	Change from 2017
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
Arizona	205 1,743 163 124 600 93 187 219	204 1,733 179 118 607 90 182 220 161	1,910 1,870 2,175 1,460 2,045 1,680 1,910 1,995 1,935	1,905 1,940 2,185 1,450 2,065 1,660 1,870 1,965 1,940	392 3,259 355 181 1,227 156 357 437 294	389 3,362 391 171 1,253 149 340 432 312	-0.8 3.2 10.1 -5.5 2.1 -4.5 -4.8 -1.1 6.1
Michigan	428	422	2,185	2,195	935	926	-1.0
Minnesota	457 329 624 264 123 525 117 515 97 128	451 327 621 254 122 516 121 539 100 126	1,790 2,000 1,980 1,745 1,700 1,700 1,870 1,890 1,930 1,765	1,805 2,015 2,010 1,740 1,715 1,665 1,885 1,940 1,935 1,760	818 658 1,236 461 209 893 219 973 187 226	814 659 1,248 442 209 859 228 1,046 194 222	-0.5 0.2 1.0 -4.1 -3.8 4.1 7.5 3.7 -1.8
Virginia	87 274 1,277 8,731	80 277 1,273 8,723	1,630 1,995 1,995	1,590 2,025 1,995	142 547 2,548 16,710	127 561 2,540 16,874	-10.6 2.6 -0.3

## Monthly Milk Cows - 23 Selected States

Thousand head



<sup>-</sup> Represents zero.

1 Includes dry cows. Excludes heifers not yet fresh.

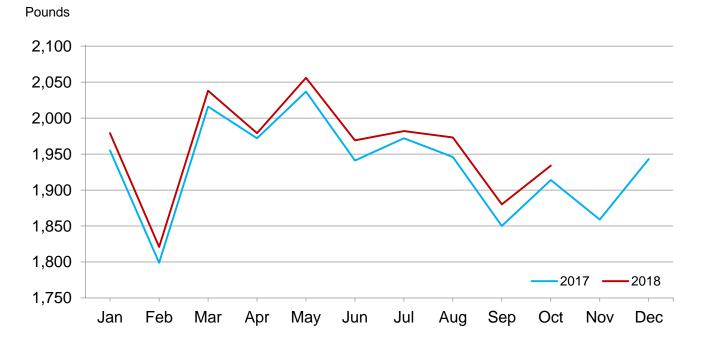
<sup>&</sup>lt;sup>2</sup> Excludes milk sucked by calves.

## Milk Cows and Production - 23 Selected States: September 2017 and 2018

[May not add due to rounding]

	Milk c	cows 1	Milk pe	r cow <sup>2</sup>		Milk production <sup>2</sup>	
	2017	2018	2017	2018	2017	2018	Change from 2017
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
Arizona	205	204	1,820	1,760	373	359	-3.8
California	1,745	1,733	1,760	1,860	3,071	3,223	4.9
Colorado	162	177	2,135	2,125	346	376	8.7
Florida	123	118	1,400	1,375	172	162	-5.8
Idaho	603	607	2,025	2,040	1,221	1,238	1.4
Illinois	93	90	1,600	1,575	149	142	-4.7
Indiana	187	183	1,820	1,760	340	322	-5.3
lowa	219	220	1,915	1,880	419	414	-1.2
Kansas	152	160	1,880	1,870	286	299	4.5
Michigan	428	422	2,100	2,115	899	893	-0.7
Minnesota	457	451	1,740	1,770	795	798	0.4
New Mexico	331	327	1,965	2,005	650	656	0.9
New York	624	621	1,925	1,950	1,201	1,211	0.8
Ohio	264	255	1,710	1,660	451	423	-6.2
Oregon	123	122	1,675	1,690	206	206	-
Pennsylvania	525	517	1,655	1,610	869	832	-4.3
South Dakota	118	121	1,820	1,840	215	223	3.7
Texas	515	539	1,855	1,930	955	1,040	8.9
Utah	97	100	1,910	1,920	185	192	3.8
Vermont	128	126	1,710	1,720	219	217	-0.9
Virginia	87	81	1,580	1,520	137	123	-10.2
Washington	274	277	1,965	1,995	538	553	2.8
Wisconsin	1,277	1,273	1,930	1,965	2,465	2,501	1.5
23-State Total	8,737	8,724	1,850	1,880	16,162	16,403	1.5

## Monthly Milk per Cow - 23 Selected States



<sup>-</sup> Represents zero.

1 Includes dry cows. Excludes heifers not yet fresh.

<sup>&</sup>lt;sup>2</sup> Excludes milk sucked by calves.

## **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 23 State milk production estimates over the past 24 months 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 16.9 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 Monthly Milk Production Estimates**

[Based on data for the past 24 months]

Item	Root mean square error	90 percent	Difference between first and latest estimate				
		confidence	Averege	Consultant	Laureat	Months	
	oquare error	level	Average	Smallest	Largest	Below latest	Above latest
	(percent)	(percent)	(1,000)	(1,000)	(1,000)	(number)	(number)
Milk production	0.1	0.2	20	2	48	14	10
All Milk cows	0.0	0.1	3	0	9	13	8

#### **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@nass.usda.gov.

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