Milk Production



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October Milk Production down 0.4 Percent

Milk production in the 24 major States during October totaled 17.9 billion pounds, down 0.4 percent from October 2022. September revised production, at 17.5 billion pounds, was up 0.1 percent from September 2022. The September revision represented an increase of 17 million pounds or less than 0.1 percent from last month's preliminary production estimate.

Production per cow in the 24 major States averaged 2,013 pounds for October, 3 pounds below October 2022.

The number of milk cows on farms in the 24 major States was 8.91 million head, 19,000 head less than October 2022, and 5,000 head less than September 2023.

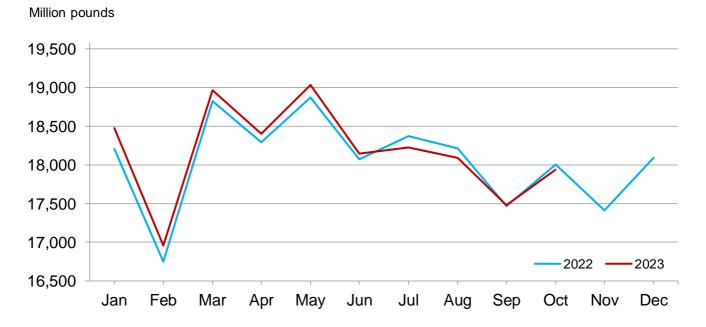
October Milk Production in the United States down 0.5 Percent

Milk production in the United States during October totaled 18.7 billion pounds, down 0.5 percent from October 2022.

Production per cow in the United States averaged 1,997 pounds for October, 1 pound below October 2022.

The number of milk cows on farms in the United States was 9.37 million head, 42,000 head less than October 2022, and 6,000 head less than September 2023.

Monthly Milk Production - 24 Selected States



Milk Cows and Production by Quarter - United States: 2022-2023

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

	Milk cows 1		Milk pe	r cow ²	Milk production ²		
Quarter	2022	2023	2022	2023	2022	2023	Change from 2022
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January-March April-June July-September October-December	9,411 9,408	9,427 9,416 9,377	6,000 6,144 5,999 5,944	6,031 6,165 5,981	56,305 57,822 56,438 55,897	56,855 58,054 56,083	1.0 0.4 -0.6
Annual	9,402		24,087		226,462		

¹ Includes dry cows. Excludes heifers not yet fresh.

Milk Cows and Production by Month - 24 Selected States: 2022-2023

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

	Milk cows 1		Milk pe	r cow ²	Milk production ²		
Month	2022	2023	2022	2023	2022	2023	Change from 2022
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January	8,876	8,927	2,051	2,069	18,205	18,474	1.5
February	8,885	8,946	1,885	1,896	16,750	16,958	1.2
March	8,908	8,959	2,113	2,117	18,827	18,962	0.7
April	8,908	8,945	2,053	2,057	18,291	18,401	0.6
May	8,921	8,949	2,115	2,127	18,871	19,033	0.9
June	8,915	8,927	2,027	2,033	18,074	18,148	0.4
July	8,920	8,911	2,060	2,046	18,373	18,228	-0.8
August	8,927	8,913	2,040	2,030	18,212	18,093	-0.7
September	8,927	8,917	1,957	1,961	17,470	17,482	0.1
October	8,931	8,912	2,016	2,013	18,005	17,936	-0.4
November	8,924		1,951		17,413		
December	8,918		2,029		18,093		
Annual	8,913		24,300		216,584		

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

Estimated Milk Cows and Production by Month - United States: 2022-2023

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

	Milk cows 1		Milk per	cow ²	Milk production ²		
Month	2022	2023	2022 2023		2022	2023	Change from 2022
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January	9,367	9,408	2,034	2,052	19,050	19,308	1.4
February	9,380	9,429	1,870	1,880	17,540	17,724	1.0
March	9,404	9,444	2,096	2,099	19,715	19,823	0.5
April	9,404	9,425	2,036	2,039	19,147	19,217	0.4
May	9,417	9,425	2,098	2,110	19,755	19,884	0.7
June	9,413	9,399	2,010	2,016	18,920	18,953	0.2
July	9,413	9,379	2,038	2,026	19,180	19,000	-0.9
August	9,406	9,376	2,022	2,011	19,016	18,856	-0.8
September	9,406	9,376	1,939	1,944	18,242	18,227	-0.1
October	9,412	9,370	1,998	1,997	18,809	18,710	-0.5
November	9,404		1,934	•	18,184		
December	9,396		2,012		18,904		
Annual	9,402		24,087		226,462		

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

² Excludes milk sucked by calves.

Milk Cows and Production - 24 Selected States: October 2022 and 2023

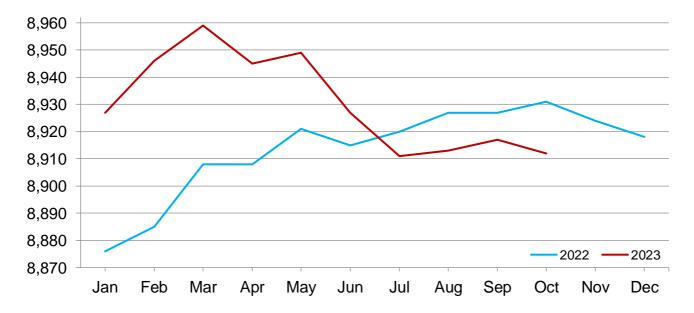
[May not add due to rounding]

	Milk c	ows 1	Milk pe	r cow ²		Milk production ²	
State	2022	2023	2022	2023	2022	2023	Change from 2022
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
Arizona	195	201	1,935	1,945	377	391	3.7
California	1,724	1,714	1,975	1,935	3,405	3,317	-2.6
Colorado	205	198	2,170	2,170	445	430	-3.4
Florida	94	100	1,550	1,550	146	155	6.2
Georgia	92	94	1,810	1,810	167	170	1.8
Idaho	662	664	2,120	2,085	1,403	1,384	-1.4
Illinois	79	79	1,735	1,745	137	138	0.7
Indiana	186	191	1,980	1,975	368	377	2.4
lowa	239	240	2,065	2,060	494	494	-
Kansas	175	173	2,015	2,010	353	348	-1.4
Michigan	428	439	2,300	2,300	984	1,010	2.6
Minnesota	453	451	1,940	1,955	879	882	0.3
New Mexico	284	260	2,030	2,020	577	525	-9.0
New York	627	630	2,105	2,140	1,320	1,348	2.1
Ohio	250	255	1,830	1,845	458	470	2.6
Oregon	124	120	1,755	1,740	218	209	-4.1
Pennsylvania	468	466	1,730	1,730	810	806	-0.5
South Dakota	185	198	1,955	1,950	362	386	6.6
Texas	655	635	2,150	2,175	1,408	1,381	-1.9
Utah	92	92	1,930	1,935	178	178	-
Vermont	117	116	1,810	1,805	212	209	-1.4
Virginia	69	69	1,670	1,715	115	118	2.6
Washington	257	257	2,025	2,015	520	518	-0.4
Wisconsin	1,271	1,270	2,100	2,120	2,669	2,692	0.9
24-State Total	8,931	8,912	2,016	2,013	18,005	17,936	-0.4

⁻ Represents zero.

Monthly Milk Cows - 24 Selected States

Thousand head



¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

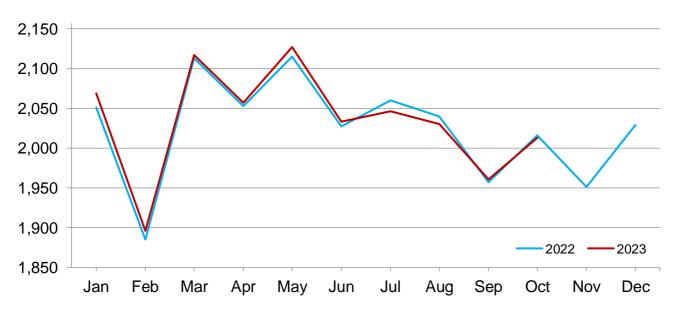
Milk Cows and Production - 24 Selected States: September 2022 and 2023

[May not add due to rounding]

	Milk c	cows 1	Milk pei	r cow ²	Milk production ²			
State	2022	2023	2022	2023	2022	2023	Change from 2022	
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)	
Arizona	195	201	1,790	1,835	349	369	5.7	
California	1,723	1,714	1,900	1,875	3,274	3,214	-1.8	
Colorado	206	198	2,130	2,125	439	421	-4.1	
Florida	93	100	1,430	1,510	133	151	13.5	
Georgia	92	94	1,695	1,745	156	164	5.1	
Idaho	660	665	2,105	2,065	1,389	1,373	-1.2	
Illinois	80	79	1,650	1,705	132	135	2.3	
Indiana	186	191	1,900	1,910	353	365	3.4	
lowa	238	240	2,000	2,010	476	482	1.3	
Kansas	175	172	1,955	1,955	342	336	-1.8	
Michigan	428	439	2,235	2,240	957	983	2.7	
Minnesota	453	451	1,895	1,905	858	859	0.1	
New Mexico	284	265	1,970	1,960	559	519	-7.2	
New York	625	630	2,055	2,070	1,284	1,304	1.6	
Ohio	250	255	1,770	1,795	443	458	3.4	
Oregon	125	120	1,710	1,715	214	206	-3.7	
Pennsylvania	468	466	1,680	1,685	786	785	-0.1	
South Dakota	185	198	1,920	1,925	355	381	7.3	
Texas	655	635	2,050	2,095	1,343	1,330	-1.0	
Utah	92	92	1,905	1,905	175	175	-	
Vermont	117	116	1,770	1,750	207	203	-1.9	
Virginia	69	69	1,615	1,650	111	114	2.7	
Washington	257	257	2,010	1,995	517	513	-0.8	
Wisconsin	1,271	1,270	2,060	2,080	2,618	2,642	0.9	
24-State Total	8,927	8,917	1,957	1,961	17,470	17,482	0.1	

Monthly Milk Per Cow - 24 Selected States





Represents zero.
 ¹ Includes dry cows. Excludes heifers not yet fresh.
 ² 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 24 State milk production estimates over the past 24 months is 0.2 percent. This means that chances are 2 out of 3 that the final estimate will not be above or below the current estimate of 17.9 billion pounds by more than 0.2 percent. Chances are 9 out of 10 that the difference will not exceed 0.4 percent.

Reliability of Monthly Milk Production Estimates

[Based on data for the past 24 months]

ltem	Root mean square error	90 percent confidence level	Difference between first and latest estimate					
			Averege	Smallest	Largest	Months		
	Square crioi		Average			Below latest	Above latest	
	(percent)	(percent)	(1,000)	(1,000)	(1,000)	(number)	(number)	
Milk production	0.2	0.4	34	3	93	11	13	
All Milk cows	0.1	0.1	5	0	15	10	10	

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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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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