Milk Production



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December Milk Production up 2.4 Percent

Milk production in the 23 major States during December totaled 16.8 billion pounds, up 2.4 percent from December 2015. November revised production at 16.1 billion pounds, was up 2.8 percent from November 2015. The November revision represented an increase of 27 million pounds or 0.2 percent from last month's preliminary production estimate.

Production per cow in the 23 major States averaged 1,931 pounds for December, 35 pounds above December 2015. This is the highest production per cow for the month of December since the 23 State series began in 2003.

The number of milk cows on farms in the 23 major States was 8.69 million head, 53,000 head more than December 2015, and 10,000 head more than November 2016.

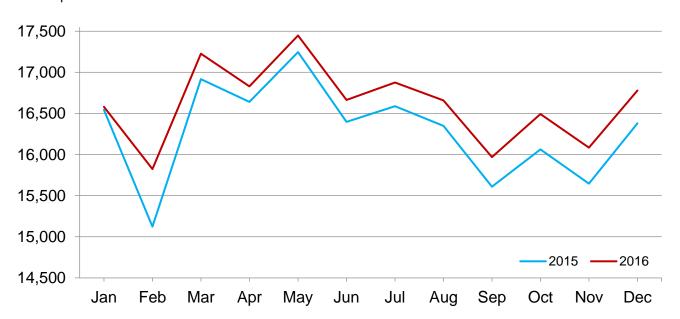
October-December Milk Production up 2.4 Percent

Milk production in the United States during the October - December quarter totaled 52.5 billion pounds, up 2.4 percent from the October - December quarter last year.

The average number of milk cows in the United States during the quarter was 9.35 million head, 10,000 head more than the July - September quarter, and 26,000 head more than the same period last year.

Monthly Milk Production – 23 Selected States

Million pounds



Milk Cows and Production by Quarter - United States: 2015-2016

[May not add due to rounding]

	Milk cows 1		Milk pe	r cow ²	Milk production ²		
Quarter	2015	2016	2015	2016	2015	2016	Change from 2015
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January-March	9,309 9,321 9,315 9,321	9,319 9,327 9,337 9,347	5,579 5,763 5,549 5,503	5,692 5,828 5,632 5,620	51,936 53,720 51,685 51,292	53,041 54,360 52,582 52,529	2.1 1.2 1.7 2.4
Annual	9,317	9,333	22,393	22,770	208,633	212,512	1.9

¹ Includes dry cows. Excludes heifers not yet fresh.

Milk Cows and Production By Month - 23 Selected States: 2015-2016

	Milk cows ¹		Milk pe	er cow ²	Milk production ²		
Month	2015	2016	2015	2016	2015	2016	Change from 2015
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January	8,621	8,627	1,919	1,922	16,544	16,581	0.2
February	8,621	8,633	1,754	1,833	15,124	15,824	4.6
March	8,623	8,644	1,962	1,993	16,918	17,227	1.8
April	8,627	8,644	1,929	1,947	16,641	16,830	1.1
May	8,633	8,644	1,998	2,019	17,246	17,448	1.2
June	8,630	8,647	1,900	1,927	16,397	16,664	1.6
July	8,630	8,661	1,922	1,949	16,589	16,876	1.7
August	8,633	8,674	1,894	1,920	16,349	16,658	1.9
September	8,636	8,671	1,807	1,842	15,609	15,969	2.3
October	8,638	8,669	1,860	1,903	16,063	16,493	2.7
November	8,640	8,681	1,811	1,853	15,646	16,084	2.8
December	8,638	8,691	1,896	1,931	16,381	16,779	2.4
Annual	8,631	8,657	22,652	23,037	195,507	199,433	2.0

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

Estimated Milk Cows and Production By Month - United States: 2015-2016

	Milk cows ¹		Milk pe	er cow ²	Milk production ²		
Month	2015	2016	2015	2016	2015	2016	Change from 2015
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January	9,308	9,310	1,900	1,903	17,685	17,718	0.2
February	9,308	9,317	1,737	1,815	16,166	16,912	4.6
March	9,311	9,329	1,942	1,974	18,085	18,411	1.8
April	9,316	9,327	1,909	1,926	17,788	17,964	1.0
May	9,324	9,327	1,976	1,997	18,428	18,622	1.1
June	9,323	9,328	1,878	1,905	17,504	17,774	1.5
July	9,314	9,332	1,897	1,921	17,665	17,928	1.5
August	9,315	9,341	1,868	1,894	17,403	17,693	1.7
September	9,317	9,337	1,784	1,817	16,617	16,961	2.1
October	9,320	9,335	1,838	1,880	17,130	17,550	2.5
November	9,322	9,347	1,790	1,832	16,689	17,120	2.6
December	9,320	9,358	1,875	1,908	17,473	17,859	2.2
Annual	9,317	9,333	22,393	22,770	208,633	212,512	1.9

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

² Excludes milk sucked by calves.

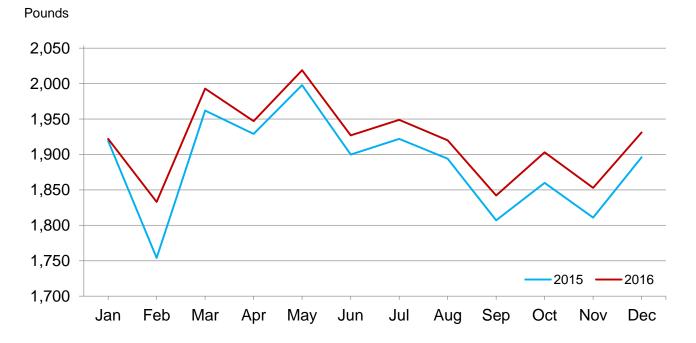
Milk Cows and Production - 23 Selected States: December 2015 and 2016

[May not add due to rounding]

	Milk c	cows 1	s ¹ Milk per cow ² Milk product			Milk production ²	on ²	
State	2015	2016	2015	2016	2015	2016	Change from 2015	
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)	
Arizona	195 1,775 148 125 587 94 184 210	196 1,765 155 122 600 93 185 214 150	2,100 1,895 2,130 1,745 1,985 1,720 1,890 1,955 1,855	2,095 1,915 2,180 1,785 1,995 1,720 1,890 1,980 1,920	410 3,364 315 218 1,165 162 348 411 263	411 3,380 338 218 1,197 160 350 424 288	0.2 0.5 7.3 - 2.7 -1.2 0.6 3.2 9.5	
Michigan	412	425	2,125	2,140	876	910	3.9	
Minnesota	460 319 620 266 126 530 110 461 95 131	461 325 620 262 124 525 116 490 92 129	1,755 1,955 1,940 1,720 1,690 1,705 1,900 1,850 1,895 1,725	1,770 2,055 2,010 1,750 1,670 1,750 1,875 1,945 1,920 1,775	807 624 1,203 458 213 904 209 853 180 226	816 668 1,246 459 207 919 218 953 177 229	1.1 7.1 3.6 0.2 -2.8 1.7 4.3 11.7 -1.7	
Virginia	91 277 1,280 8,638	88 275 1,279 8,691	1,620 1,980 1,935 1,896	1,640 1,990 1,970 1,931	147 548 2,477 16,381	144 547 2,520 16,779	-2.0 -0.2 1.7	

⁻ Represents zero.

Monthly Milk per Cow - 23 Selected States



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

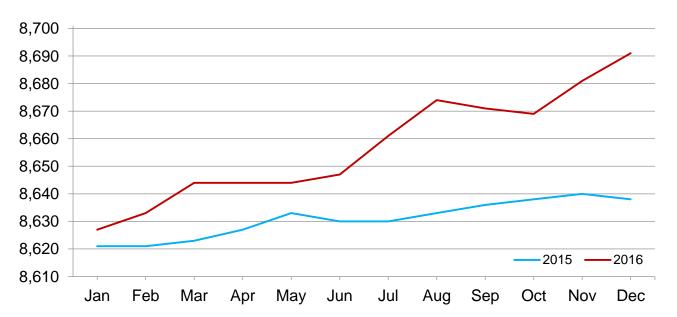
Milk Cows and Production - 23 Selected States: November 2015 and 2016

[May not add due to rounding]

	Milk o	cows ¹	Milk pe	er cow ²		Milk production ²	
	2015	2016	2015	2016	2015	2016	Change from 2015
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
Arizona California Colorado	195 1,776 147	196 1,765 154	1,950 1,805 2,075	1,945 1,820 2,130	380 3,206 305	381 3,212 328	0.3 0.2 7.5
FloridaIdaho	125 587	121 599	1,530 1,935	1,595 1,970	191 1,136	193 1,180	1.0 3.9
IllinoisIndiana	94 184 210	93 185 213	1,600 1,800 1,850	1,610 1,815 1,905	150 331 389	150 336 406	1.5
Iowa Kansas Michigan	142 411	149 423	1,770 2,050	1,890 1,890 2,085	251 843	282 882	4.4 12.4 4.6
Minnesota	460	461	1,660	1,690	764	779	2.0
New Mexico New York	322 620	323 620	1,915 1,850	1,980 1,925	617 1,147	640 1,194	3.7 4.1
Ohio Oregon	266 126	262 124	1,635 1,620	1,670 1,615	435 204	438 200	0.7 -2.0
Pennsylvania South Dakota	530 110	525 116	1,615 1,810	1,670 1,820	856 199	877 211	2.5 6.0
Texas Utah Vermont	462 95 131	490 92 129	1,785 1,820 1,640	1,875 1,875 1,700	825 173 215	919 173 219	11.4 - 1.9
Virginia	90	88	1,545	1,535	139	135	-2.9
Washington Wisconsin	277 1,280	275 1,278	1,905 1,845	1,915 1,895	528 2,362	527 2,422	-0.2 2.5
23-State Total	8,640	8,681	1,811	1,853	15,646	16,084	2.8

Monthly Milk Cows - 23 Selected States

Thousand head



⁻ Represents zero.

¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

Milk Cows and Production - States and United States: Revised July - September 2015 and 2016

[May not add due to rounding]

	July - Septembe	r milk cows1	July - September milk production ²				
State	2015	2016	2015	2016	Change from 2015		
	(1,000 head)	(1,000 head)	(million pounds)	(million pounds)	(percent)		
Alabama	7.5	7.0	21.0	19.0	-9.5		
Alaska	0.3	0.3	0.9	0.9	-		
Arizona	195.0	197.0	1,102.0	1,105.0	0.3		
Arkansas	7.0	6.0	20.0	17.0	-15.0		
California	1,778.0	1,767.0	9,920.0	9,834.0	-0.9		
Colorado Connecticut	145.0 19.5	152.0 19.0	953.0 98.0	1,003.0 100.0	5.2 2.0		
Delaware	5.0	5.0	23.0	21.7	-5.7		
Florida	125.0	120.0	589.0	563.0	-4.4		
Georgia	84.0	83.0	421.0	415.0	-1.4		
Hawaii	2.2	2.4	8.6	8.6	-		
Idaho	586.0	599.0	3,624.0	3,813.0	5.2		
Illinois	94.0	93.0	448.0	446.0	-0.4		
Indiana	182.0	184.0	998.0	1,016.0	1.8		
lowa Kansas	211.0 143.0	211.0 146.0	1,188.0 779.0	1,233.0 821.0	3.8 5.4		
Kentucky	60.0	56.0	249.0	234.0	-6.0		
Louisiana	13.0	12.0	37.0	32.0	-13.5		
Maine	30.0	30.0	151.0	158.0	4.6		
Maryland	48.0	47.0	239.0	229.0	-4.2		
Massachusetts	12.0	11.5	54.0	53.0	-1.9		
Michigan	410.0	421.0	2,591.0	2,726.0	5.2		
Minnesota Mississippi	460.0 10.5	462.0 9.5	2,358.0 31.0	2,391.0 30.0	1.4 -3.2		
Missouri	88.0	88.0	324.0	324.0	-		
Montana	14.0	14.0	75.0	74.0	-1.3		
Nebraska	57.0	60.0	323.0	346.0	7.1		
Nevada	29.0	30.0	173.0	166.0	-4.0		
New Hampshire	14.0	13.5	70.0	70.0	-		
New Jersey	7.0	6.5	31.0	29.0	-6.5		
New Mexico	323.0	316.0	1,941.0	1,935.0	-0.3		
New York	619.0	620.0	3,576.0	3,729.0	4.3		
North Carolina North Dakota	46.0 16.0	45.0 16.0	235.0 84.0	227.0 87.0	-3.4 3.6		
Ohio	266.0	265.0	1,379.0	1,372.0	-0.5		
Oklahoma	38.0	36.0	166.0	155.0	-6.6		
Oregon	123.0	125.0	638.0	650.0	1.9		
Pennsylvania	530.0	529.0	2,674.0	2,684.0	0.4		
Rhode Island	0.9	0.8	4.0	3.5	-12.5		
South Carolina	15.0	14.5	58.0	54.0	-6.9		
South Dakota	107.0	115.0	605.0	638.0	5.5		
Tennessee	43.0	41.0	172.0	159.0	-7.6		
Texas	462.0	483.0	2,507.0	2,680.0	6.9		
Utah	96.0	92.0	564.0	537.0	-4.8		
Vermont Virginia	132.0 91.0	130.0 89.0	667.0 432.0	677.0 413.0	1.5 -4.4		
Washington	276.0	275.0	1,662.0	1,686.0	-4.4 1.4		
West Virginia	8.5	8.0	34.0	31.0	-8.8		
Wisconsin	1,280.0	1,278.0	7,352.0	7,551.0	2.7		
Wyoming	6.0	6.0	35.0	35.1	0.3		
United States	9,315.0	9,337.0	51,685.0	52,582.0	1.7		

⁻ Represents zero.

¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

Milk Cows and Production - States and United States: Preliminary October - December 2015 and 2016

[May not add due to rounding]

State	May not add due to roun	October - Decem	nber milk cows ¹	October - December milk production ²				
Alashara	State	2015	2016	2015	2016	from		
Alaşka 0.3 0.3 0.8 0.9 12.5 Arizona 195.0 196.0 1,166.0 1,174.0 0.7 Arizonas 7.0 6.0 20.0 18.0 -10.0 California 1,776.0 1,755.0 9.813.0 990.0 0.9 Colorado 147.0 153.0 939.0 997.0 6.2 Colorado 147.0 153.0 939.0 997.0 6.2 Delavare 5.0 5.0 23.6 22.1 -6.4 Florida 125.0 121.0 593.0 583.0 -0.8 Georgie 65.0 85.0 83.0 439.0 439.0 -0.8 Ilmois 94.0 93.0 468.0 3,614.0 3.4 1.0 3.0 1.0 1.0 3.0 1.0 1.0 3.0 1.0 1.0 1.0 1.0 3.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0		(1,000 head)	(1,000 head)	(million pounds)	(million pounds)	(percent)		
Alaska 0.3 0.3 0.8 0.9 12.5 Araizona 195.0 196.0 1,166.0 1,174.0 0.7 Arkansas 7.0 6.0 20.0 18.0 -10.0 California 1,776.0 1,765.0 9,813.0 9901.0 0.9 Colorado 147.0 153.0 939.0 997.0 6.2 Colorado 125.0 121.0 93.0 439.0 930.0 46.0 Gorgia 85.0 85.0 83.0 439.0 439.0 439.0 Idhaho 587.0 599.0 3,496.0 3614.0 34.0 Ilmost 94.0 93.0 436.0 3614.0 34.0 Ramea 142.0 143.0 175.0	Alabama	7.0	7.0	23.0	21.0	-8.7		
Arkansas	Alaska	0.3	0.3	0.8	0.9	12.5		
Arkansas	Arizona	195.0	196.0	1,166.0	1,174.0	0.7		
Colorado 147.0 153.0 930.0 997.0 6.2 Connecticut 19.0 19.0 98.0 100.0 20 Delaware 5.0 5.0 23.6 22.1 6.4 Florida 125.0 121.0 593.0 588.0 0.8 Gorgia 85.0 83.0 439.0 439.0 Hawaii 22 2.3 7.6 8.3 9.2 Idaho 587.0 589.0 3.496.0 3.614.0 3.4 Illinois 94.0 93.0 463.0 461.0 -0.4 Indiana 184.0 185.0 1,014.0 1,028.0 1.4 Iowa 210.0 213.0 1,199.0 1,244.0 3.8 Karasa 142.0 1481.0 775.0 266.0 252.0 -1.6 Louisiana 130.0 10.0 440.0 35.0 20.1 -1.8 Marsachusetts 12.0 11.5 53.0 52.0<	Arkansas				18.0	-10.0		
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	United States	9,321.0	9,347.0	51,292.0	52,529.0	2.4		

⁻ Represents zero.

1 Excludes 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. Indications of milk cow inventory are also obtained in the January Cattle Surveys.

Estimation Procedures: State 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 52.5 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]

		90 percent	Difference between first and latest estimate				
Item	Root mean square error	confidence	Averen	0 " .	1	Quarters	
	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	51	2	141	17	3
All milk cows	0.0	0.1	3	0	8	15	2

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.

Dan Kerestes, Chief, Livestock Branch	(202) 720-3570
Scott Hollis, Head, Livestock Section	(202) 690-2424
Sherry Bertramsen – Livestock Slaughter	(202) 720-3240
David Colwell – Sheep and Goats	(202) 720-8784
Donnie Fike – Dairy Products	(202) 690-3236
Michael Klamm – Cattle, Cattle on Feed	(202) 720-3040
Mike Miller – Milk Production and Milk Cows	(202) 720-3278
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
- ➤ 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 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.

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@nass.usda.gov.

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