



ISSN: 1949-1557

Released June 21, 2016, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

## May Milk Production up 1.2 Percent

**Milk production** in the 23 major States during May totaled 17.5 billion pounds, up 1.2 percent from May 2015. April revised production, at 16.8 billion pounds, was up 1.1 percent from April 2015. The April revision represented a decrease of 13 million pounds or 0.1 percent from last month's preliminary production estimate.

**Production per cow** in the 23 major States averaged 2,019 pounds for May, 21 pounds above May 2015. This is the highest production per cow for the month of May since the 23 State series began in 2003.

**The number of milk cows** on farms in the 23 major States was 8.64 million head, 11,000 head more than May 2015, but unchanged from April 2016.

## May Milk Production in the United States up 1.2 Percent

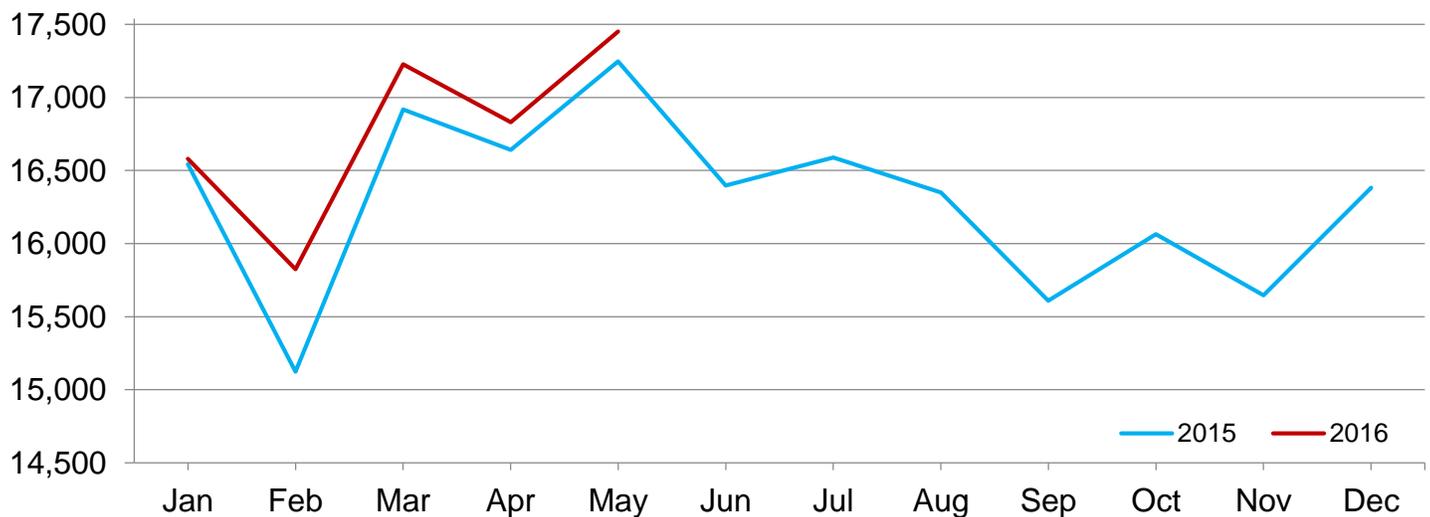
**Milk production** in the United States during May totaled 18.6 billion pounds, up 1.2 percent from May 2015.

**Production per cow** in the United States averaged 1,999 pounds for May, 23 pounds above May 2015.

**The number of milk cows** on farms in the United States was 9.33 million head, 3,000 head more than May 2015, but unchanged from April 2016.

## Monthly Milk Production – 23 Selected States

Million pounds



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

[May not add due to rounding]

Quarter	Milk cows <sup>1</sup>		Milk per cow <sup>2</sup>		Milk production <sup>2</sup>		
	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	9,317	5,579	5,693	51,936	53,045	2.1
April-June .....	9,321		5,763		53,720		
July-September .....	9,315		5,549		51,685		
October-December .....	9,321		5,503		51,292		
Annual .....	9,317		22,393		208,633		

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

<sup>2</sup> Excludes milk sucked by calves.

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

Month	Milk cows <sup>1</sup>		Milk per cow <sup>2</sup>		Milk production <sup>2</sup>		
	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	17,450	1.2
June .....	8,630		1,900		16,397		
July .....	8,630		1,922		16,589		
August .....	8,633		1,894		16,349		
September .....	8,636		1,807		15,609		
October .....	8,638		1,860		16,063		
November .....	8,640		1,811		15,646		
December .....	8,638		1,896		16,381		
Annual .....	8,631		22,652		195,507		

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

<sup>2</sup> Excludes milk sucked by calves.

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

Month	Milk cows <sup>1</sup>		Milk per cow <sup>2</sup>		Milk production <sup>2</sup>		
	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	9,309	1,900	1,903	17,685	17,719	0.2
February .....	9,308	9,315	1,737	1,816	16,166	16,913	4.6
March .....	9,311	9,327	1,942	1,974	18,085	18,413	1.8
April .....	9,316	9,327	1,909	1,928	17,788	17,987	1.1
May .....	9,324	9,327	1,976	1,999	18,428	18,645	1.2
June .....	9,323		1,878		17,504		
July .....	9,314		1,897		17,665		
August .....	9,315		1,868		17,403		
September .....	9,317		1,784		16,617		
October .....	9,320		1,838		17,130		
November .....	9,322		1,790		16,689		
December .....	9,320		1,875		17,473		
Annual .....	9,317		22,393		208,633		

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

<sup>2</sup> Excludes milk sucked by calves.

## Milk Cows and Production – 23 Selected States: May 2015 and 2016

[May not add due to rounding]

State	Milk cows <sup>1</sup>		Milk per cow <sup>2</sup>		Milk production <sup>2</sup>		Change from 2015 (percent)
	2015	2016	2015	2016	2015	2016	
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	
Arizona .....	195	198	2,210	2,225	431	441	2.3
California .....	1,778	1,772	2,055	2,005	3,654	3,553	-2.8
Colorado .....	145	149	2,200	2,225	319	332	4.1
Florida .....	125	123	1,920	1,895	240	233	-2.9
Idaho .....	586	591	2,105	2,125	1,234	1,256	1.8
Illinois .....	95	94	1,810	1,820	172	171	-0.6
Indiana .....	181	184	1,960	1,965	355	362	2.0
Iowa .....	212	211	2,015	2,070	427	437	2.3
Kansas .....	144	144	1,965	1,970	283	284	0.4
Michigan .....	407	418	2,195	2,285	893	955	6.9
Minnesota .....	460	460	1,795	1,835	826	844	2.2
New Mexico .....	323	310	2,190	2,195	707	680	-3.8
New York .....	618	620	1,990	2,080	1,230	1,290	4.9
Ohio .....	267	266	1,815	1,830	485	487	0.4
Oregon .....	124	126	1,800	1,810	223	228	2.2
Pennsylvania .....	530	530	1,815	1,820	962	965	0.3
South Dakota .....	105	114	1,905	1,920	200	219	9.5
Texas .....	462	465	1,975	1,990	912	925	1.4
Utah .....	96	93	2,030	2,000	195	186	-4.6
Vermont .....	132	131	1,775	1,810	234	237	1.3
Virginia .....	92	90	1,730	1,705	159	153	-3.8
Washington .....	276	276	2,090	2,090	577	577	-
Wisconsin .....	1,280	1,279	1,975	2,060	2,528	2,635	4.2
23-State Total .....	8,633	8,644	1,998	2,019	17,246	17,450	1.2

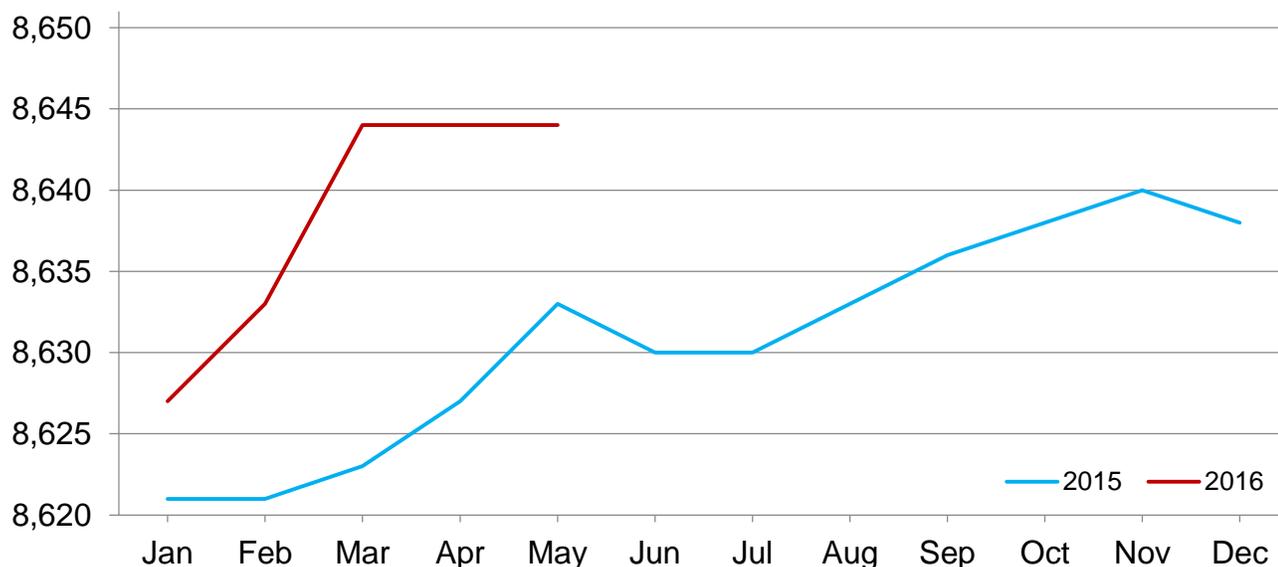
- Represents zero.

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

<sup>2</sup> Excludes milk sucked by calves.

## Monthly Milk Cows – 23 Selected States

Thousand head



## Milk Cows and Production – 23 Selected States: April 2015 and 2016

[May not add due to rounding]

	Milk cows <sup>1</sup>		Milk per cow <sup>2</sup>		Milk production <sup>2</sup>		Change from 2015
	2015	2016	2015	2016	2015	2016	
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
Arizona .....	195	198	2,200	2,190	429	434	1.2
California .....	1,779	1,772	2,025	1,965	3,602	3,482	-3.3
Colorado .....	145	149	2,170	2,150	315	320	1.6
Florida .....	125	124	1,895	1,855	237	230	-3.0
Idaho .....	585	591	2,005	2,025	1,173	1,197	2.0
Illinois .....	95	94	1,760	1,780	167	167	-
Indiana .....	181	184	1,875	1,900	339	350	3.2
Iowa .....	212	211	1,940	1,990	411	420	2.2
Kansas .....	144	144	1,945	1,940	280	279	-0.4
Michigan .....	404	417	2,100	2,165	848	903	6.5
Minnesota .....	460	460	1,720	1,765	791	812	2.7
New Mexico .....	323	311	2,105	2,110	680	656	-3.5
New York .....	617	620	1,875	1,965	1,157	1,218	5.3
Ohio .....	268	266	1,730	1,750	464	466	0.4
Oregon .....	125	126	1,735	1,740	217	219	0.9
Pennsylvania .....	530	530	1,745	1,755	925	930	0.5
South Dakota .....	103	114	1,840	1,840	190	210	10.5
Texas .....	462	463	1,940	1,965	896	910	1.6
Utah .....	96	94	1,950	1,925	187	181	-3.2
Vermont .....	131	131	1,695	1,740	222	228	2.7
Virginia .....	92	90	1,680	1,665	155	150	-3.2
Washington .....	277	276	2,020	2,010	560	555	-0.9
Wisconsin .....	1,278	1,279	1,875	1,965	2,396	2,513	4.9
23-State Total .....	8,627	8,644	1,929	1,947	16,641	16,830	1.1

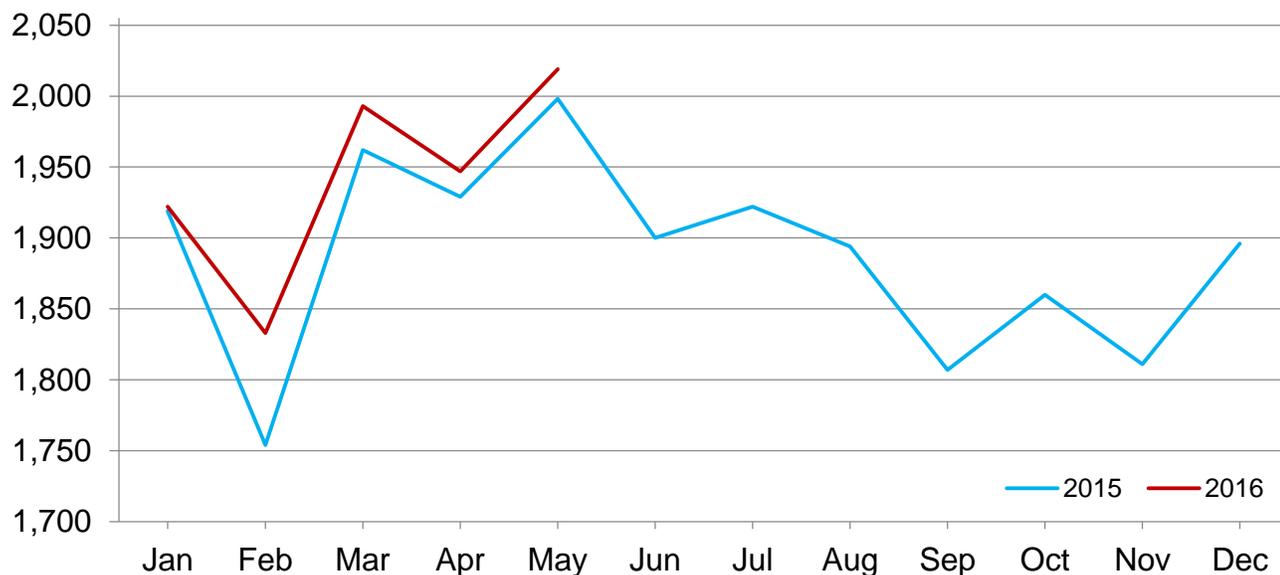
- Represents zero.

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

<sup>2</sup> Excludes milk sucked by calves.

## Monthly Milk per Cow – 23 Selected States

Pounds



## 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 Survey.

**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 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 0.2 percent. This means that chances are 2 out of 3 that the final estimate will not be above or below the current estimate of 17.5 billion pounds by more than 0.2 percent. Chances are 9 out of 10 that the difference will not exceed 0.3 percent.

### Reliability of Monthly Milk Production Estimates

[Based on data for the past 24 months]

Item	Root mean square error	90 percent confidence level	Difference between first and latest estimate				
			Average	Smallest	Largest	Months	
						Below latest	Above latest
	(percent)	(percent)	(1,000)	(1,000)	(1,000)	(number)	(number)
Milk production .....	0.2	0.3	25	4	71	19	5
All Milk cows .....	0.0	0.1	3	0	8	18	3

## 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](mailto:nass@nass.usda.gov).

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Sherry Bertramsen – Livestock Slaughter .....	(202) 720-3240
Doug Bounds – Hogs and Pigs .....	(202) 720-3106
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

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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@nass.usda.gov](mailto:nass@nass.usda.gov).

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