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May Milk Production up 1.8 Percent

Milk production in the 23 major States during May totaled 17.8 billion pounds, up 1.8 percent from May 2016. April revised production, at 17.2 billion pounds, was up 2.2 percent from April 2016. The April revision represented an increase of 36 million pounds or 0.2 percent from last month's preliminary production estimate.

Production per cow in the 23 major States averaged 2,035 pounds for May, 16 pounds above May 2016. 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 8.72 million head, 81,000 head more than May 2016, and 2,000 head more than April 2017.

May Milk Production in the United States up 1.8 Percent

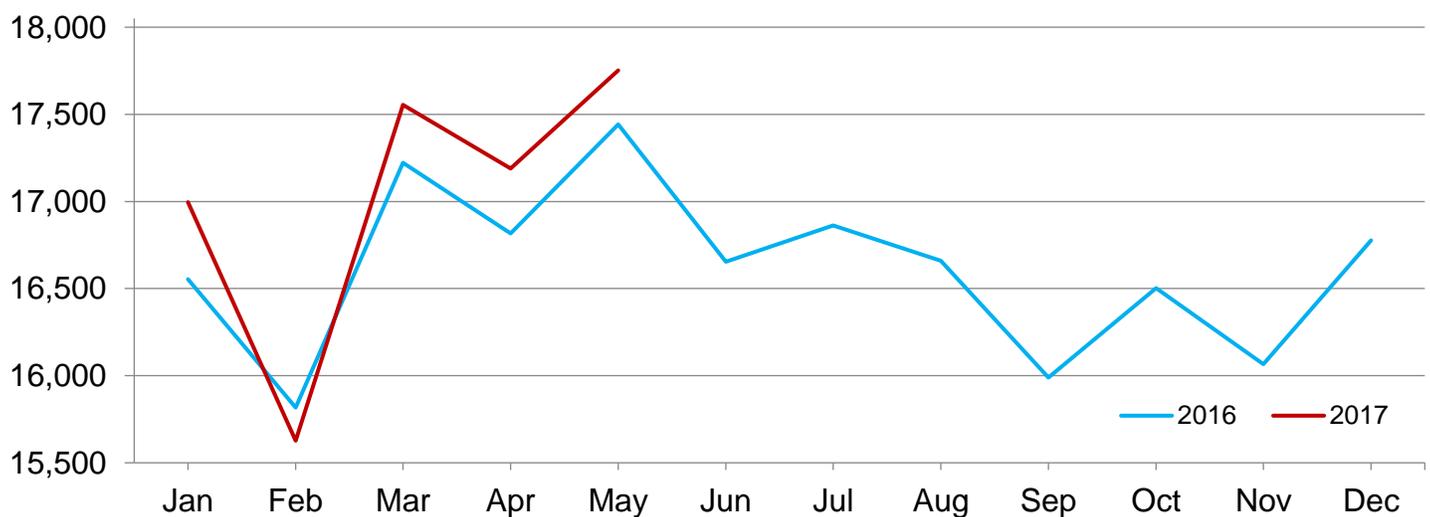
Milk production in the United States during May totaled 18.9 billion pounds, up 1.8 percent from May 2016.

Production per cow in the United States averaged 2,016 pounds for May, 19 pounds above May 2016.

The number of milk cows on farms in the United States was 9.39 million head, 71,000 head more than May 2016, and 2,000 head more than April 2017.

Monthly Milk Production – 23 Selected States

Million pounds



Milk Cows and Production by Quarter – United States: 2016-2017

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

Quarter	Milk cows ¹		Milk per cow ²		Milk production ²		
	2016	2017	2016	2017	2016	2017	Change from 2016
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January-March	9,312	9,370	5,691	5,717	52,998	53,570	1.1
April-June	9,323		5,828		54,331		
July-September	9,331		5,636		52,590		
October-December	9,344		5,620		52,517		
Annual	9,328		22,774		212,436		

¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

Milk Cows and Production By Month – 23 Selected States: 2016-2017

[Blank data cells indicate estimation period has not yet begun]

Month	Milk cows ¹		Milk per cow ²		Milk production ²		
	2016	2017	2016	2017	2016	2017	Change from 2016
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January	8,621	8,691	1,920	1,955	16,553	16,995	2.7
February	8,628	8,694	1,833	1,797	15,817	15,627	-1.2
March	8,637	8,711	1,994	2,015	17,222	17,554	1.9
April	8,638	8,720	1,947	1,971	16,817	17,189	2.2
May	8,641	8,722	2,019	2,035	17,442	17,752	1.8
June	8,648		1,926		16,654		
July	8,658		1,948		16,863		
August	8,666		1,922		16,659		
September	8,664		1,845		15,989		
October	8,668		1,904		16,503		
November	8,675		1,852		16,066		
December	8,683		1,932		16,777		
Annual	8,652		23,042		199,362		

¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

Estimated Milk Cows and Production By Month – United States: 2016-2017

[Blank data cells indicate estimation period has not yet begun]

Month	Milk cows ¹		Milk per cow ²		Milk production ²		
	2016	2017	2016	2017	2016	2017	Change from 2016
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January	9,304	9,362	1,902	1,938	17,693	18,145	2.6
February	9,311	9,365	1,815	1,782	16,904	16,685	-1.3
March	9,321	9,382	1,974	1,997	18,401	18,740	1.8
April	9,321	9,391	1,925	1,953	17,947	18,341	2.2
May	9,322	9,393	1,997	2,016	18,613	18,940	1.8
June	9,326		1,906		17,771		
July	9,329		1,920		17,908		
August	9,334		1,895		17,692		
September	9,331		1,821		16,990		
October	9,335		1,882		17,565		
November	9,344		1,830		17,100		
December	9,354		1,908		17,852		
Annual	9,328		22,774		212,436		

¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

Milk Cows and Production – 23 Selected States: May 2016 and 2017

[May not add due to rounding]

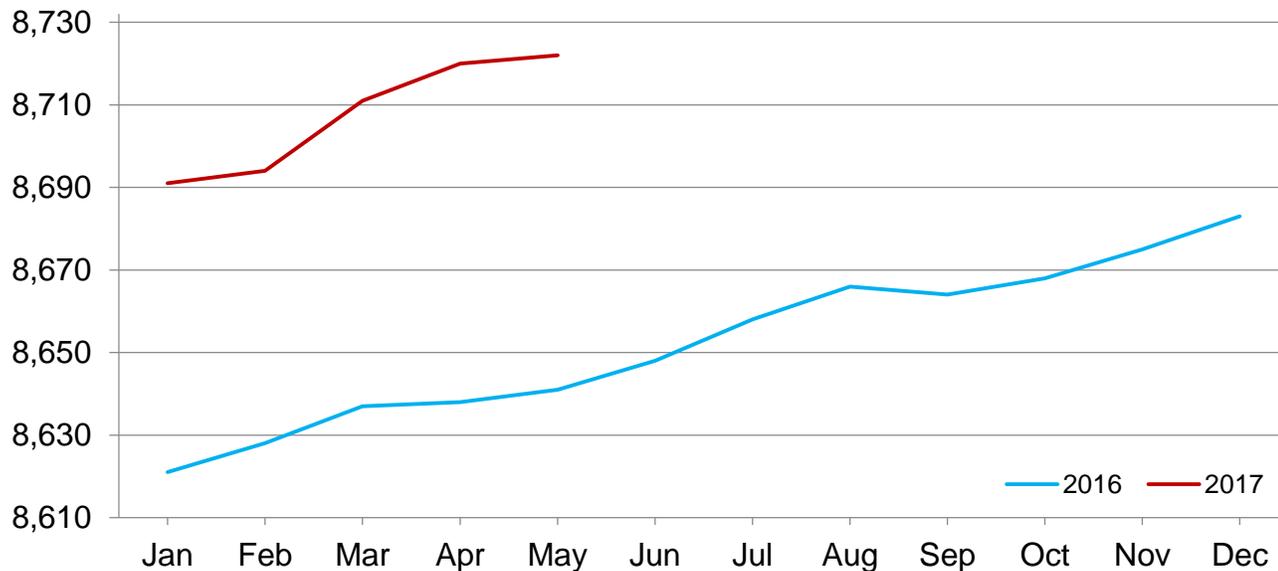
State	Milk cows ¹		Milk per cow ²		Milk production ²		Change from 2016
	2016	2017	2016	2017	2016	2017	
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
Arizona	196	203	2,210	2,235	433	454	4.8
California	1,764	1,753	2,015	2,005	3,554	3,515	-1.1
Colorado	149	159	2,200	2,215	328	352	7.3
Florida	123	124	1,870	1,850	230	229	-0.4
Idaho	592	596	2,125	2,105	1,258	1,255	-0.2
Illinois	94	93	1,820	1,850	171	172	0.6
Indiana	184	186	1,965	1,990	362	370	2.2
Iowa	213	217	2,075	2,065	442	448	1.4
Kansas	145	152	1,970	1,955	286	297	3.8
Michigan	418	427	2,285	2,325	955	993	4.0
Minnesota	461	459	1,835	1,890	846	868	2.6
New Mexico	310	328	2,195	2,215	680	727	6.9
New York	620	624	2,085	2,120	1,293	1,323	2.3
Ohio	266	262	1,830	1,885	487	494	1.4
Oregon	126	124	1,825	1,790	230	222	-3.5
Pennsylvania	530	525	1,805	1,860	957	977	2.1
South Dakota	114	117	1,915	1,915	218	224	2.8
Texas	470	513	1,975	2,075	928	1,064	14.7
Utah	91	93	1,990	2,020	181	188	3.9
Vermont	131	129	1,810	1,855	237	239	0.8
Virginia	90	87	1,705	1,785	153	155	1.3
Washington	275	272	2,080	2,075	572	564	-1.4
Wisconsin	1,279	1,279	2,065	2,050	2,641	2,622	-0.7
23-State Total	8,641	8,722	2,019	2,035	17,442	17,752	1.8

¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

Monthly Milk Cows – 23 Selected States

Thousand head



Milk Cows and Production – 23 Selected States: April 2016 and 2017

[May not add due to rounding]

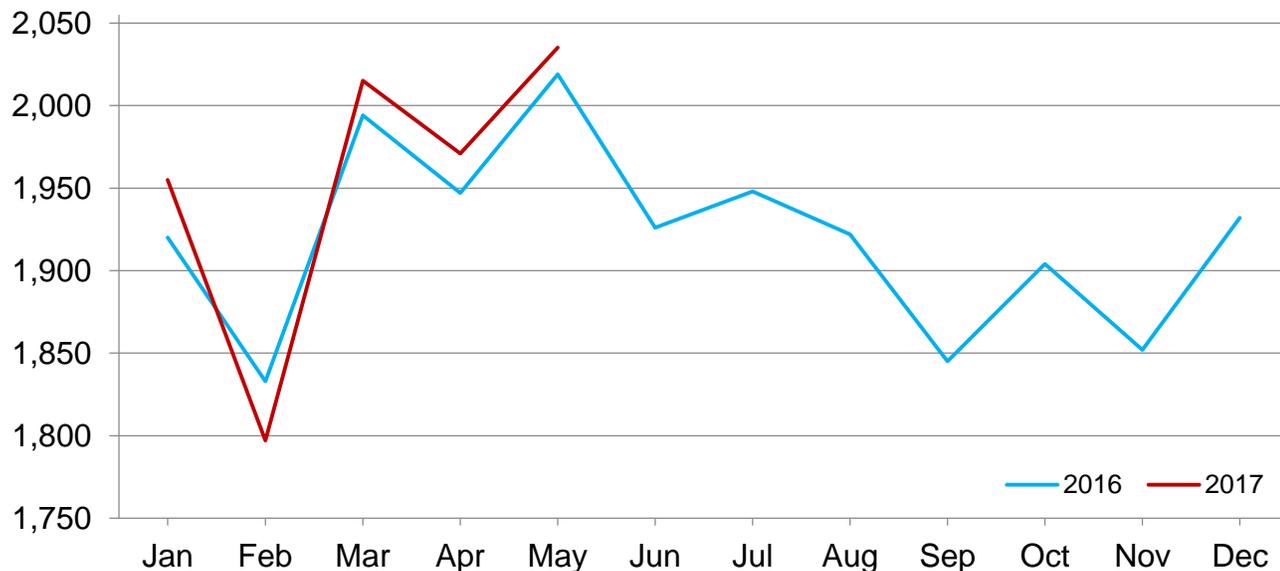
	Milk cows ¹		Milk per cow ²		Milk production ²		Change from 2016
	2016	2017	2016	2017	2016	2017	
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
Arizona	197	203	2,160	2,215	426	450	5.6
California	1,766	1,755	1,970	1,960	3,479	3,440	-1.1
Colorado	149	159	2,155	2,165	321	344	7.2
Florida	124	124	1,855	1,830	230	227	-1.3
Idaho	591	596	2,025	2,000	1,197	1,192	-0.4
Illinois	94	93	1,780	1,790	167	166	-0.6
Indiana	184	186	1,920	1,955	353	364	3.1
Iowa	212	217	1,990	1,995	422	433	2.6
Kansas	144	152	1,940	1,955	279	297	6.5
Michigan	417	426	2,165	2,225	903	948	5.0
Minnesota	460	459	1,760	1,810	810	831	2.6
New Mexico	311	328	2,110	2,150	656	705	7.5
New York	620	623	1,965	2,035	1,218	1,268	4.1
Ohio	266	262	1,770	1,835	471	481	2.1
Oregon	126	124	1,760	1,725	222	214	-3.6
Pennsylvania	530	525	1,745	1,805	925	948	2.5
South Dakota	114	117	1,840	1,855	210	217	3.3
Texas	465	510	1,955	2,010	909	1,025	12.8
Utah	92	93	1,885	1,935	173	180	4.0
Vermont	131	129	1,740	1,785	228	230	0.9
Virginia	90	87	1,665	1,765	150	154	2.7
Washington	276	273	2,010	1,990	555	543	-2.2
Wisconsin	1,279	1,279	1,965	1,980	2,513	2,532	0.8
23-State Total	8,638	8,720	1,947	1,971	16,817	17,189	2.2

¹ Includes dry cows. Excludes heifers not yet fresh.

² 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 17.8 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	20	1	70	14	10
All Milk cows	0.1	0.1	4	0	10	9	14

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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Mike Miller – Milk Production and Milk Cows	(202) 720-3278
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