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June Milk Production up 1.6 Percent

Milk production in the 23 major States during June totaled 16.7 billion pounds, up 1.6 percent from June 2015. May revised production at 17.4 billion pounds, was up 1.2 percent from May 2015. The May 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 1,926 pounds for June, 26 pounds above June 2015. This is the highest production per cow for the month of June since the 23 State series began in 2003.

The number of milk cows on farms in the 23 major States was 8.65 million head, 17,000 head more than June 2015, and 3,000 head more than May 2016.

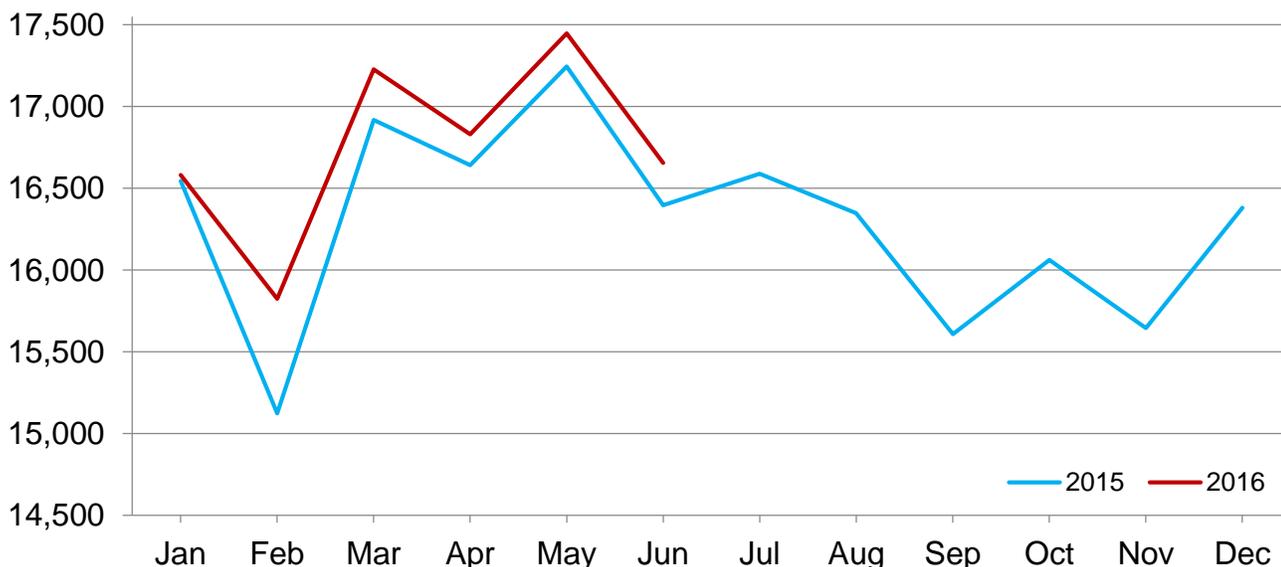
April-June Milk Production up 1.2 Percent

Milk production in the United States during the April - June quarter totaled 54.4 billion pounds, up 1.2 percent from the April - June quarter last year.

The average number of milk cows in the United States during the quarter was 9.33 million head, 8,000 head more than the January - March quarter, and 6,000 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]

Quarter	Milk cows ¹		Milk per 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)
January-March	9,309	9,319	5,579	5,692	51,936	53,041	2.1
April-June	9,321	9,327	5,763	5,827	53,720	54,351	1.2
July-September	9,315		5,549		51,685		
October-December	9,321		5,503		51,292		
Annual	9,317		22,393		208,633		

¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

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

Month	Milk cows ¹		Milk per 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)
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	1,926	16,397	16,655	1.6
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		

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

Month	Milk cows ¹		Milk per 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)
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	1,925	17,788	17,959	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	17,770	1.5
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		

¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

Milk Cows and Production – 23 Selected States: June 2015 and 2016

[May not add due to rounding]

State	Milk cows ¹		Milk per cow ²		Milk production ²		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	2,045	2,070	399	410	2.8
California	1,778	1,770	1,910	1,900	3,396	3,363	-1.0
Colorado	145	149	2,140	2,130	310	317	2.3
Florida	125	122	1,790	1,755	224	214	-4.5
Idaho	586	591	2,040	2,070	1,195	1,223	2.3
Illinois	94	94	1,690	1,700	159	160	0.6
Indiana	181	184	1,825	1,830	330	337	2.1
Iowa	212	211	1,910	1,955	405	413	2.0
Kansas	143	145	1,810	1,845	259	268	3.5
Michigan	408	419	2,135	2,190	871	918	5.4
Minnesota	460	463	1,730	1,755	796	813	2.1
New Mexico	323	310	2,035	2,045	657	634	-3.5
New York	618	620	1,940	2,015	1,199	1,249	4.2
Ohio	266	266	1,730	1,750	460	466	1.3
Oregon	124	126	1,735	1,740	215	219	1.9
Pennsylvania	530	530	1,715	1,725	909	914	0.6
South Dakota	106	115	1,860	1,830	197	210	6.6
Texas	462	468	1,835	1,880	848	880	3.8
Utah	96	92	1,990	1,950	191	179	-6.3
Vermont	132	131	1,710	1,750	226	229	1.3
Virginia	91	90	1,620	1,590	147	143	-2.7
Washington	275	275	2,010	2,010	553	553	-
Wisconsin	1,280	1,278	1,915	1,990	2,451	2,543	3.8
23-State Total	8,630	8,647	1,900	1,926	16,397	16,655	1.6

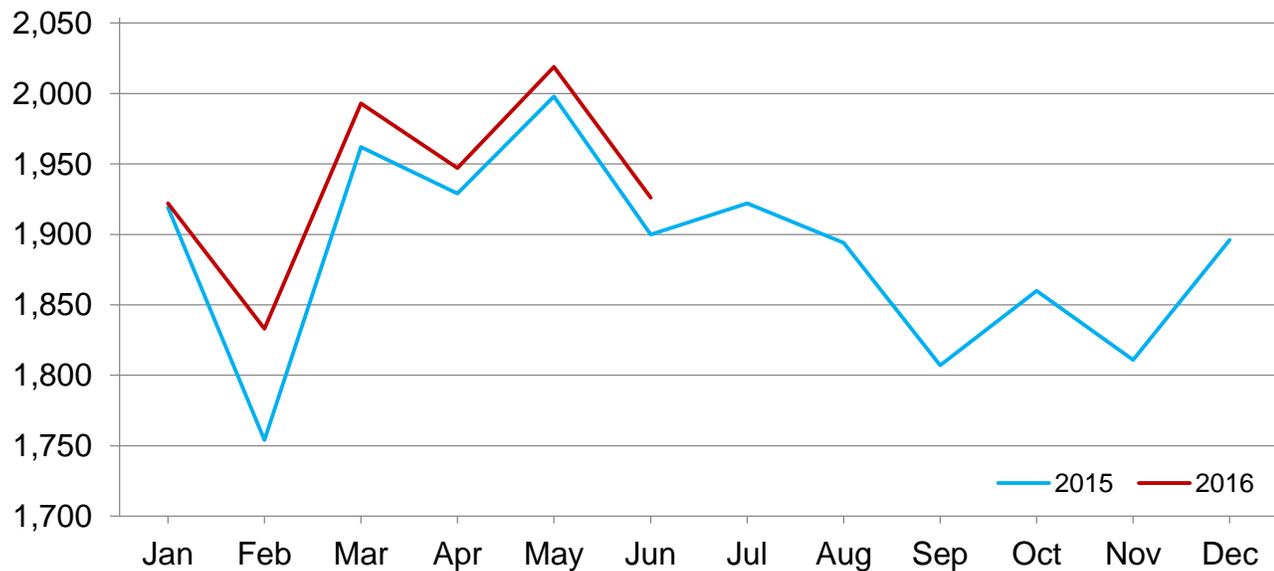
- Represents zero.

¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

Monthly Milk per Cow – 23 Selected States

Pounds



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

[May not add due to rounding]

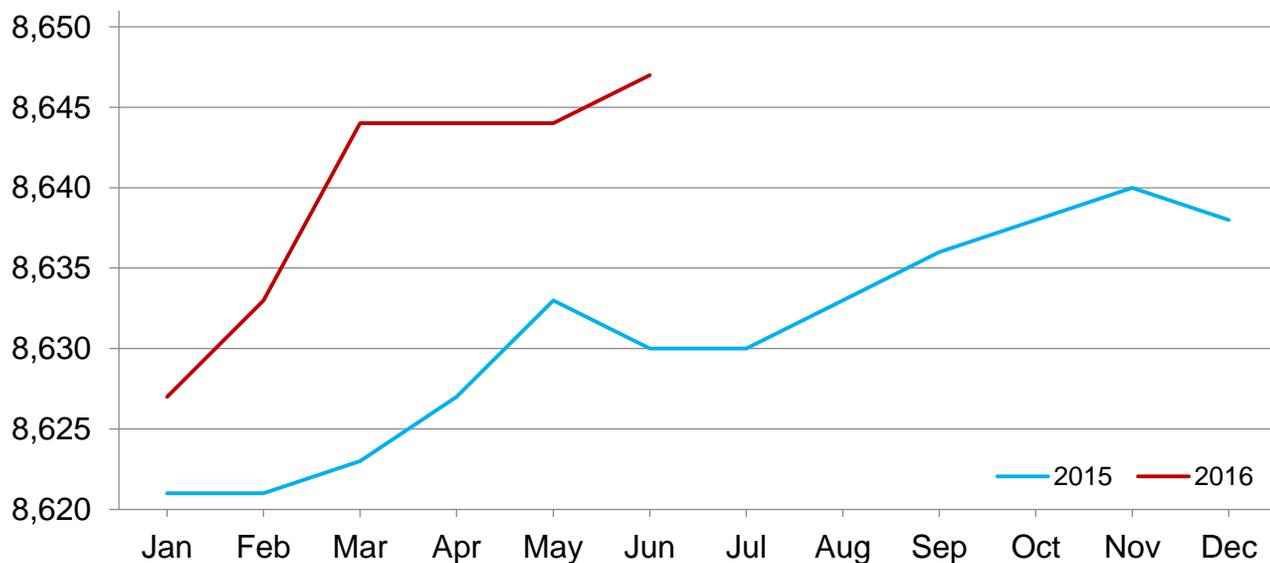
	Milk cows ¹		Milk per cow ²		Milk production ²		Change from 2015
	2015	2016	2015	2016	2015	2016	
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
Arizona	195	198	2,210	2,225	431	441	2.3
California	1,778	1,771	2,055	2,005	3,654	3,551	-2.8
Colorado	145	149	2,200	2,200	319	328	2.8
Florida	125	123	1,920	1,870	240	230	-4.2
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	2,075	427	438	2.6
Kansas	144	145	1,965	1,970	283	286	1.1
Michigan	407	418	2,195	2,285	893	955	6.9
Minnesota	460	461	1,795	1,835	826	846	2.4
New Mexico	323	310	2,190	2,195	707	680	-3.8
New York	618	620	1,990	2,085	1,230	1,293	5.1
Ohio	267	266	1,815	1,830	485	487	0.4
Oregon	124	126	1,800	1,805	223	227	1.8
Pennsylvania	530	530	1,815	1,820	962	965	0.3
South Dakota	105	114	1,905	1,915	200	218	9.0
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	275	2,090	2,080	577	572	-0.9
Wisconsin	1,280	1,279	1,975	2,065	2,528	2,641	4.5
23-State Total	8,633	8,644	1,998	2,019	17,246	17,448	1.2

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 – States and United States: Revised January - March 2015 and 2016

[May not add due to rounding]

State	January - March milk cows ¹		January - March milk production ²		
	2015	2016	2015	2016	Change from 2015
	(1,000 head)	(1,000 head)	(million pounds)	(million pounds)	(percent)
Alabama	8.0	7.0	29.0	26.0	-10.3
Alaska	0.3	0.3	0.9	0.8	-11.1
Arizona	195.0	197.0	1,246.0	1,278.0	2.6
Arkansas	7.0	6.5	25.0	22.0	-12.0
California	1,779.0	1,774.0	10,513.0	10,341.0	-1.6
Colorado	145.0	148.0	914.0	952.0	4.2
Connecticut	19.0	19.0	98.0	103.0	5.1
Delaware	5.0	5.0	26.0	26.0	-
Florida	124.0	126.0	699.0	681.0	-2.6
Georgia	81.0	85.0	468.0	493.0	5.3
Hawaii	2.2	2.4	8.8	8.5	-3.4
Idaho	581.0	589.0	3,392.0	3,530.0	4.1
Illinois	95.0	94.0	483.0	492.0	1.9
Indiana	181.0	184.0	994.0	1,044.0	5.0
Iowa	211.0	210.0	1,211.0	1,236.0	2.1
Kansas	143.0	143.0	803.0	820.0	2.1
Kentucky	63.0	59.0	280.0	278.0	-0.7
Louisiana	14.0	13.0	58.0	53.0	-8.6
Maine	30.0	30.0	144.0	155.0	7.6
Maryland	49.0	48.0	248.0	250.0	0.8
Massachusetts	12.0	11.5	54.0	54.0	-
Michigan	403.0	414.0	2,470.0	2,675.0	8.3
Minnesota	460.0	460.0	2,344.0	2,420.0	3.2
Mississippi	12.0	10.0	53.0	42.0	-20.8
Missouri	89.0	88.0	345.0	356.0	3.2
Montana	14.0	14.0	74.0	74.0	-
Nebraska	55.0	60.0	315.0	351.0	11.4
Nevada	28.0	29.0	158.0	161.0	1.9
New Hampshire	14.0	13.5	70.0	72.0	2.9
New Jersey	7.0	6.5	33.0	31.0	-6.1
New Mexico	323.0	311.0	1,962.0	1,846.0	-5.9
New York	616.0	620.0	3,404.0	3,596.0	5.6
North Carolina	47.0	47.0	254.0	253.0	-0.4
North Dakota	16.0	16.0	80.0	83.0	3.8
Ohio	268.0	266.0	1,358.0	1,364.0	0.4
Oklahoma	40.0	38.0	188.0	187.0	-0.5
Oregon	125.0	126.0	629.0	649.0	3.2
Pennsylvania	530.0	530.0	2,695.0	2,732.0	1.4
Rhode Island	0.9	0.8	4.1	3.6	-12.2
South Carolina	15.0	15.0	72.0	69.0	-4.2
South Dakota	101.0	113.0	553.0	627.0	13.4
Tennessee	46.0	44.0	196.0	187.0	-4.6
Texas	467.0	456.0	2,602.0	2,572.0	-1.2
Utah	96.0	95.0	550.0	544.0	-1.1
Vermont	132.0	131.0	657.0	679.0	3.3
Virginia	93.0	91.0	448.0	446.0	-0.4
Washington	277.0	277.0	1,631.0	1,659.0	1.7
West Virginia	9.0	9.0	36.0	36.0	-
Wisconsin	1,275.0	1,280.0	7,028.0	7,449.0	6.0
Wyoming	6.0	6.0	32.0	34.4	7.5
United States	9,309.0	9,319.0	51,936.0	53,041.0	2.1

- 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 April - June 2015 and 2016

[May not add due to rounding]

State	April - June milk cows ¹		April - June milk production ²		
	2015	2016	2015	2016	Change from 2015
	(1,000 head)	(1,000 head)	(million pounds)	(million pounds)	(percent)
Alabama	8.0	7.0	28.0	26.0	-7.1
Alaska	0.3	0.3	0.9	0.9	-
Arizona	195.0	198.0	1,259.0	1,285.0	2.1
Arkansas	7.0	6.5	26.0	22.0	-15.4
California	1,778.0	1,771.0	10,652.0	10,396.0	-2.4
Colorado	145.0	149.0	944.0	965.0	2.2
Connecticut	19.5	19.0	102.0	105.0	2.9
Delaware	5.0	5.0	25.9	25.7	-0.8
Florida	125.0	123.0	701.0	674.0	-3.9
Georgia	82.0	85.0	469.0	483.0	3.0
Hawaii	2.3	2.5	10.0	9.7	-3.0
Idaho	586.0	591.0	3,602.0	3,676.0	2.1
Illinois	95.0	94.0	498.0	498.0	-
Indiana	181.0	184.0	1,024.0	1,049.0	2.4
Iowa	212.0	211.0	1,243.0	1,271.0	2.3
Kansas	144.0	145.0	822.0	833.0	1.3
Kentucky	62.0	58.0	289.0	284.0	-1.7
Louisiana	14.0	12.5	52.0	49.0	-5.8
Maine	30.0	30.0	150.0	163.0	8.7
Maryland	49.0	48.0	255.0	244.0	-4.3
Massachusetts	12.0	11.5	56.0	56.0	-
Michigan	406.0	418.0	2,612.0	2,776.0	6.3
Minnesota	460.0	461.0	2,413.0	2,471.0	2.4
Mississippi	12.0	10.0	47.0	40.0	-14.9
Missouri	88.0	88.0	370.0	360.0	-2.7
Montana	14.0	14.0	77.0	75.0	-2.6
Nebraska	56.0	61.0	328.0	354.0	7.9
Nevada	29.0	30.0	168.0	164.0	-2.4
New Hampshire	14.0	13.5	72.0	73.0	1.4
New Jersey	7.0	6.5	33.0	32.0	-3.0
New Mexico	323.0	310.0	2,044.0	1,970.0	-3.6
New York	618.0	620.0	3,586.0	3,760.0	4.9
North Carolina	46.0	47.0	256.0	252.0	-1.6
North Dakota	16.0	16.0	85.0	88.0	3.5
Ohio	267.0	266.0	1,409.0	1,419.0	0.7
Oklahoma	40.0	38.0	191.0	185.0	-3.1
Oregon	124.0	126.0	655.0	665.0	1.5
Pennsylvania	530.0	530.0	2,796.0	2,809.0	0.5
Rhode Island	0.9	0.8	4.0	3.7	-7.5
South Carolina	15.0	15.0	71.0	68.0	-4.2
South Dakota	105.0	114.0	587.0	638.0	8.7
Tennessee	46.0	43.0	199.0	184.0	-7.5
Texas	462.0	465.0	2,656.0	2,715.0	2.2
Utah	96.0	93.0	573.0	546.0	-4.7
Vermont	132.0	131.0	682.0	694.0	1.8
Virginia	92.0	90.0	461.0	446.0	-3.3
Washington	276.0	275.0	1,690.0	1,680.0	-0.6
West Virginia	9.0	9.0	37.0	36.0	-2.7
Wisconsin	1,279.0	1,279.0	7,375.0	7,697.0	4.4
Wyoming	6.0	6.0	34.0	34.6	1.8
United States	9,321.0	9,327.0	53,720.0	54,351.0	1.2

- 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 54.4 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]

Item	Root mean square error	90 percent confidence level	Difference between first and latest estimate				
			Average	Smallest	Largest	Quarters	
						Below latest	Above latest
	(percent)	(percent)	(1,000)	(1,000)	(1,000)	(number)	(number)
Milk production	0.1	0.2	53	2	141	17	3
All milk cows	0.0	0.1	3	0	8	14	4

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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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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