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June Milk Production up 1.7 Percent

Milk production in the 23 major States during June totaled 16.9 billion pounds, up 1.7 percent from June 2016. May revised production at 17.8 billion pounds, was up 1.9 percent from May 2016. The May revision represented an increase of 17 million pounds or 0.1 percent from last month's preliminary production estimate.

Production per cow in the 23 major States averaged 1,939 pounds for June, 13 pounds above June 2016. 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 8.73 million head, 83,000 head more than June 2016, and 4,000 head more than May 2017.

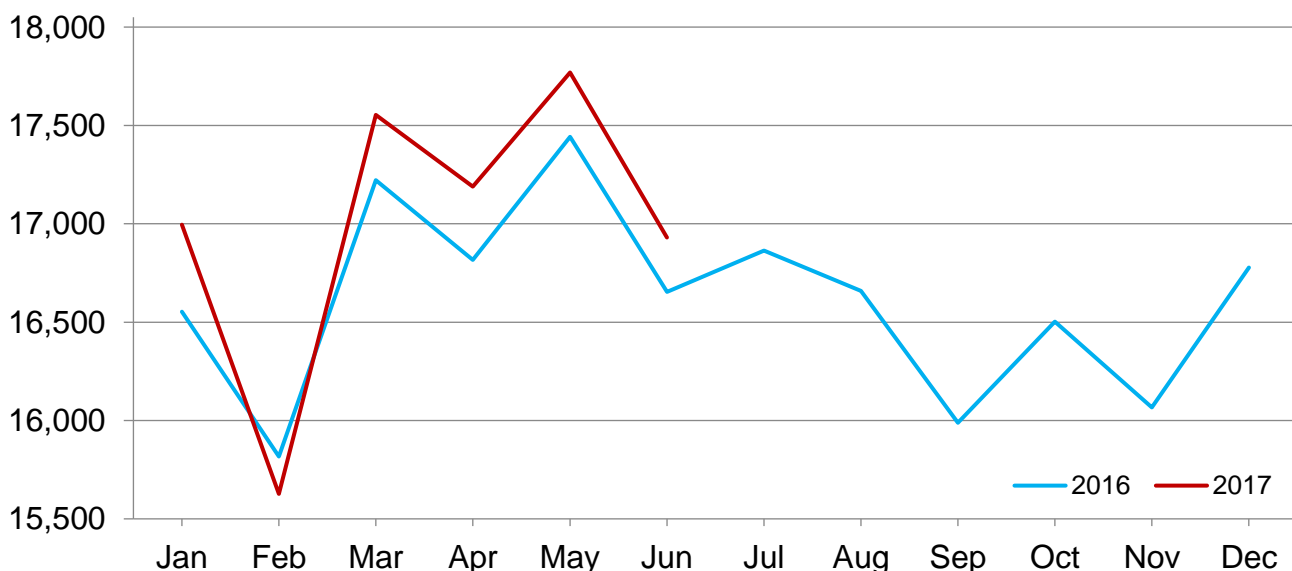
April-June Milk Production up 1.8 Percent

Milk production in the United States during the April - June quarter totaled 55.3 billion pounds, up 1.8 percent from the April - June quarter last year.

The average number of milk cows in the United States during the quarter was 9.40 million head, 29,000 head more than the January - March quarter, and 76,000 head more than the same period last year.

Monthly Milk Production – 23 Selected States

Million pounds



Milk Cows and Production by Quarter – United States: 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	53,568	1.1
April-June	9,323	9,399	5,828	5,884	54,331	55,308	1.8
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	8,727	2,019	2,036	17,442	17,769	1.9
June	8,648	8,731	1,926	1,939	16,654	16,930	1.7
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	16,684	-1.3
March	9,321	9,382	1,974	1,997	18,401	18,739	1.8
April	9,321	9,392	1,925	1,950	17,947	18,319	2.1
May	9,322	9,400	1,997	2,015	18,613	18,942	1.8
June	9,326	9,404	1,906	1,919	17,771	18,047	1.6
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: June 2016 and 2017

[May not add due to rounding]

State	Milk cows ¹		Milk per cow ²		Milk production ²		Change from 2016 (percent)
	2016	2017	2016	2017	2016	2017	
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	
Arizona	196	202	2,030	2,045	398	413	3.8
California	1,763	1,750	1,905	1,880	3,359	3,290	-2.1
Colorado	150	160	2,140	2,170	321	347	8.1
Florida	122	124	1,730	1,725	211	214	1.4
Idaho	594	602	2,090	2,100	1,241	1,264	1.9
Illinois	94	93	1,670	1,750	157	163	3.8
Indiana	184	186	1,830	1,860	337	346	2.7
Iowa	213	217	1,965	1,965	419	426	1.7
Kansas	145	151	1,855	1,855	269	280	4.1
Michigan	419	427	2,200	2,220	922	948	2.8
Minnesota	462	458	1,755	1,795	811	822	1.4
New Mexico	310	332	2,045	2,095	634	696	9.8
New York	620	624	2,015	2,010	1,249	1,254	0.4
Ohio	266	262	1,750	1,785	466	468	0.4
Oregon	125	124	1,760	1,720	220	213	-3.2
Pennsylvania	530	525	1,710	1,725	906	906	-
South Dakota	115	117	1,820	1,840	209	215	2.9
Texas	475	515	1,860	1,975	884	1,017	15.0
Utah	91	95	1,970	2,000	179	190	6.1
Vermont	131	129	1,750	1,765	229	228	-0.4
Virginia	90	87	1,590	1,625	143	141	-1.4
Washington	275	273	2,010	2,000	553	546	-1.3
Wisconsin	1,278	1,278	1,985	1,990	2,537	2,543	0.2
23-State Total	8,648	8,731	1,926	1,939	16,654	16,930	1.7

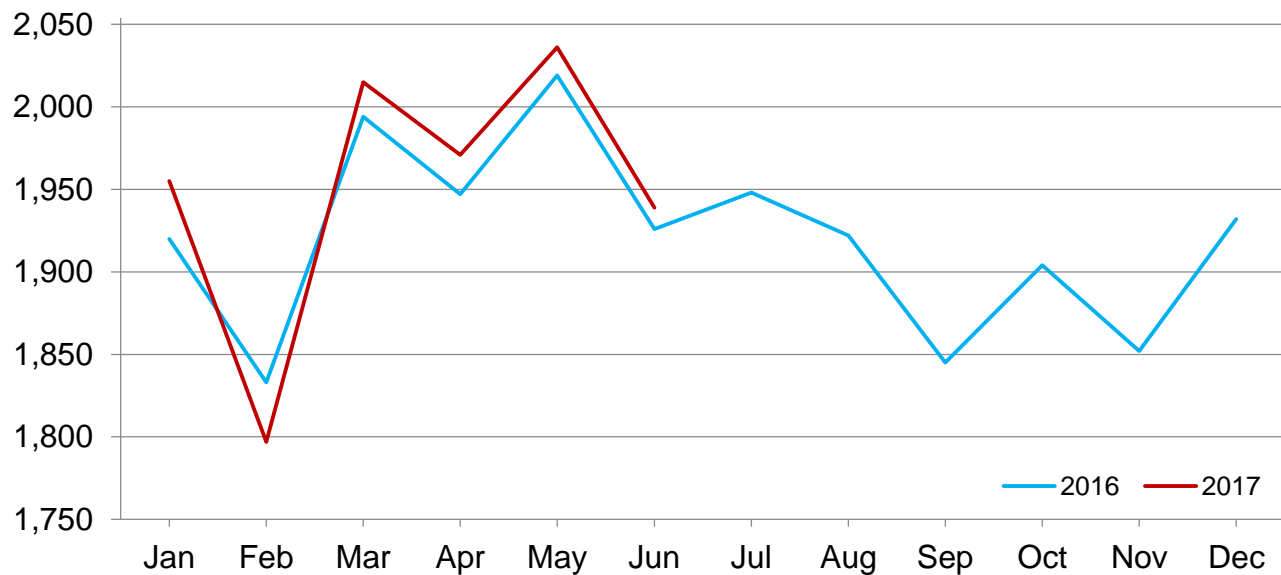
- Represents zero.

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 2016 and 2017

[May not add due to rounding]

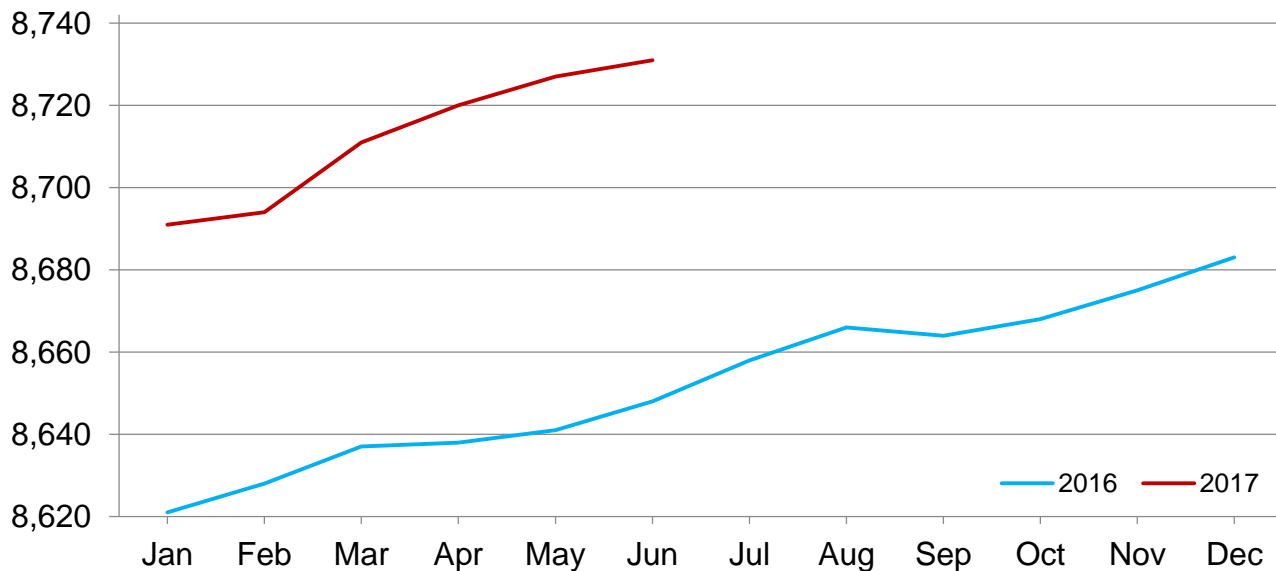
	Milk cows ¹		Milk per cow ²		Milk production ²		Change from 2016
	2016	2017	2016	2017	2016	2017	
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
Arizona	196	202	2,210	2,215	433	447	3.2
California	1,764	1,753	2,015	2,005	3,554	3,515	-1.1
Colorado	149	159	2,200	2,215	328	352	7.3
Florida	123	124	1,870	1,865	230	231	0.4
Idaho	592	600	2,125	2,130	1,258	1,278	1.6
Illinois	94	93	1,820	1,850	171	172	0.6
Indiana	184	186	1,965	2,010	362	374	3.3
Iowa	213	217	2,075	2,055	442	446	0.9
Kansas	145	150	1,970	1,930	286	290	1.4
Michigan	418	427	2,285	2,325	955	993	4.0
Minnesota	461	459	1,835	1,870	846	858	1.4
New Mexico	310	329	2,195	2,210	680	727	6.9
New York	620	624	2,085	2,120	1,293	1,323	2.3
Ohio	266	262	1,830	1,905	487	499	2.5
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	95	1,990	2,040	181	194	7.2
Vermont	131	129	1,810	1,855	237	239	0.8
Virginia	90	87	1,705	1,775	153	154	0.7
Washington	275	273	2,080	2,080	572	568	-0.7
Wisconsin	1,279	1,279	2,065	2,050	2,641	2,622	-0.7
23-State Total	8,641	8,727	2,019	2,036	17,442	17,769	1.9

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 2016 and 2017

[May not add due to rounding]

State	January - March milk cows ¹		January - March milk production ²		
	2016	2017	2016	2017	Change from 2016
	(1,000 head)	(1,000 head)	(million pounds)	(million pounds)	(percent)
Alabama	7.0	6.5	26.0	26.0	-
Alaska	0.3	0.3	0.8	0.9	12.5
Arizona	196.0	199.0	1,269.0	1,279.0	0.8
Arkansas	6.5	6.0	22.0	21.0	-4.5
California	1,768.0	1,755.0	10,336.0	10,038.0	-2.9
Colorado	148.0	156.0	952.0	1,003.0	5.4
Connecticut	19.0	19.0	103.0	104.0	1.0
Delaware	5.0	5.0	26.0	24.8	-4.6
Florida	126.0	123.0	681.0	678.0	-0.4
Georgia	85.0	84.0	493.0	502.0	1.8
Hawaii	2.4	2.4	8.5	9.3	9.4
Idaho	589.0	597.0	3,530.0	3,477.0	-1.5
Illinois	94.0	93.0	492.0	489.0	-0.6
Indiana	184.0	186.0	1,047.0	1,058.0	1.1
Iowa	211.0	216.0	1,246.0	1,267.0	1.7
Kansas	143.0	152.0	820.0	876.0	6.8
Kentucky	59.0	56.0	278.0	271.0	-2.5
Louisiana	13.0	12.0	53.0	47.0	-11.3
Maine	30.0	30.0	155.0	155.0	-
Maryland	48.0	47.0	247.0	247.0	-
Massachusetts	11.5	11.5	54.0	54.0	-
Michigan	414.0	425.0	2,669.0	2,757.0	3.3
Minnesota	460.0	460.0	2,420.0	2,445.0	1.0
Mississippi	10.0	9.0	42.0	40.0	-4.8
Missouri	88.0	88.0	356.0	350.0	-1.7
Montana	14.0	13.5	74.0	72.0	-2.7
Nebraska	60.0	60.0	351.0	355.0	1.1
Nevada	29.0	31.0	161.0	166.0	3.1
New Hampshire	13.5	13.5	72.0	71.0	-1.4
New Jersey	6.5	6.5	31.0	31.0	-
New Mexico	311.0	326.0	1,846.0	2,042.0	10.6
New York	620.0	621.0	3,596.0	3,697.0	2.8
North Carolina	47.0	45.0	253.0	251.0	-0.8
North Dakota	16.0	15.5	83.0	83.0	-
Ohio	266.0	262.0	1,381.0	1,385.0	0.3
Oklahoma	38.0	38.0	187.0	188.0	0.5
Oregon	126.0	124.0	652.0	619.0	-5.1
Pennsylvania	530.0	525.0	2,711.0	2,751.0	1.5
Rhode Island	0.8	0.8	3.6	3.0	-16.7
South Carolina	15.0	15.0	69.0	68.0	-1.4
South Dakota	113.0	117.0	627.0	645.0	2.9
Tennessee	44.0	41.0	187.0	184.0	-1.6
Texas	457.0	500.0	2,576.0	2,988.0	16.0
Utah	93.0	92.0	508.0	516.0	1.6
Vermont	131.0	129.0	679.0	680.0	0.1
Virginia	91.0	87.0	446.0	442.0	-0.9
Washington	277.0	274.0	1,659.0	1,582.0	-4.6
West Virginia	9.0	8.0	36.0	33.0	-8.3
Wisconsin	1,280.0	1,280.0	7,449.0	7,462.0	0.2
Wyoming	6.0	6.0	34.4	34.8	1.2
United States	9,312.0	9,370.0	52,998.0	53,568.0	1.1

- 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 2016 and 2017

[May not add due to rounding]

State	April - June milk cows ¹		April - June milk production ²		
	2016	2017	2016	2017	Change from 2016
	(1,000 head)	(1,000 head)	(million pounds)	(million pounds)	(percent)
Alabama	7.0	6.5	26.0	26.0	-
Alaska	0.3	0.3	0.9	0.7	-22.2
Arizona	196.0	202.0	1,257.0	1,310.0	4.2
Arkansas	6.5	6.0	22.0	21.0	-4.5
California	1,764.0	1,753.0	10,392.0	10,245.0	-1.4
Colorado	149.0	159.0	970.0	1,043.0	7.5
Connecticut	19.0	18.5	105.0	106.0	1.0
Delaware	5.0	5.0	25.7	24.3	-5.4
Florida	123.0	124.0	671.0	672.0	0.1
Georgia	85.0	84.0	483.0	489.0	1.2
Hawaii	2.5	2.3	9.7	10.4	7.2
Idaho	592.0	599.0	3,696.0	3,734.0	1.0
Illinois	94.0	93.0	495.0	501.0	1.2
Indiana	184.0	186.0	1,052.0	1,084.0	3.0
Iowa	213.0	217.0	1,283.0	1,305.0	1.7
Kansas	145.0	151.0	834.0	867.0	4.0
Kentucky	58.0	56.0	284.0	277.0	-2.5
Louisiana	12.5	12.0	49.0	44.0	-10.2
Maine	30.0	30.0	163.0	161.0	-1.2
Maryland	48.0	48.0	246.0	248.0	0.8
Massachusetts	11.5	11.5	56.0	55.0	-1.8
Michigan	418.0	427.0	2,780.0	2,889.0	3.9
Minnesota	461.0	459.0	2,467.0	2,511.0	1.8
Mississippi	10.0	9.0	40.0	38.0	-5.0
Missouri	88.0	88.0	360.0	356.0	-1.1
Montana	14.0	13.5	75.0	73.0	-2.7
Nebraska	60.0	60.0	351.0	360.0	2.6
Nevada	30.0	32.0	164.0	182.0	11.0
New Hampshire	13.5	13.5	73.0	72.0	-1.4
New Jersey	6.5	6.5	32.0	31.0	-3.1
New Mexico	310.0	330.0	1,970.0	2,128.0	8.0
New York	620.0	624.0	3,760.0	3,845.0	2.3
North Carolina	47.0	45.0	252.0	249.0	-1.2
North Dakota	16.0	15.5	88.0	88.0	-
Ohio	266.0	262.0	1,424.0	1,448.0	1.7
Oklahoma	38.0	39.0	185.0	187.0	1.1
Oregon	126.0	124.0	672.0	649.0	-3.4
Pennsylvania	530.0	525.0	2,788.0	2,831.0	1.5
Rhode Island	0.8	0.8	3.7	3.3	-10.8
South Carolina	15.0	15.0	68.0	66.0	-2.9
South Dakota	114.0	117.0	637.0	656.0	3.0
Tennessee	43.0	40.0	185.0	183.0	-1.1
Texas	470.0	513.0	2,721.0	3,106.0	14.1
Utah	91.0	94.0	533.0	564.0	5.8
Vermont	131.0	129.0	694.0	697.0	0.4
Virginia	90.0	87.0	446.0	449.0	0.7
Washington	275.0	273.0	1,680.0	1,657.0	-1.4
West Virginia	9.0	8.0	36.0	34.0	-5.6
Wisconsin	1,279.0	1,279.0	7,691.0	7,697.0	0.1
Wyoming	6.0	6.0	34.6	34.8	0.6
United States	9,323.0	9,399.0	54,331.0	55,308.0	1.8

- 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. 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 55.3 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	46	2	118	15	5
All milk cows	0.0	0.1	3	0	6	10	8

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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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

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