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June Milk Production up 0.5 Percent

Milk production in the 24 major States during June totaled 17.4 billion pounds, up 0.5 percent from June 2019. May revised production, at 18.0 billion pounds, was down 0.5 percent from May 2019. The May revision represented an increase of 93 million pounds or 0.5 percent from last month's preliminary production estimate.

Production per cow in the 24 major States averaged 1,974 pounds for June, unchanged from June 2019.

The number of milk cows on farms in the 24 major States was 8.83 million head, 43,000 head more than June 2019, but 9,000 head less than May 2020.

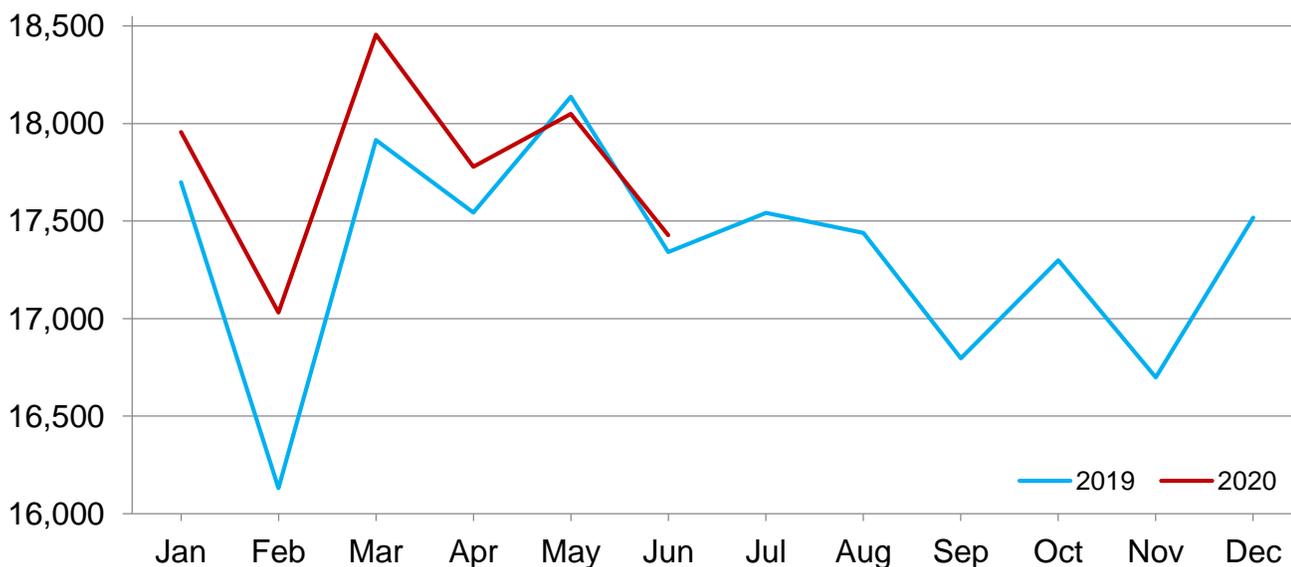
April-June Milk Production up 0.4 Percent

Milk production in the United States during the April - June quarter totaled 55.9 billion pounds, up 0.4 percent from the April - June quarter last year.

The average number of milk cows in the United States during the quarter was 9.36 million head, 12,000 head less than the January - March quarter, but 31,000 head more than the same period last year.

Monthly Milk Production - 24 Selected States

Million pounds



Milk Cows and Production by Quarter - United States: 2019-2020

[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		
	2019	2020	2019	2020	2019	2020	Change from 2019
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January-March	9,346	9,374	5,823	5,988	54,423	56,130	3.1
April-June	9,331	9,362	5,971	5,975	55,716	55,938	0.4
July-September	9,322		5,818		54,237		
October-December	9,345		5,779		54,006		
Annual	9,336		23,391		218,382		

¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

Milk Cows and Production by Month – 24 Selected States: 2019-2020

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

Month	Milk cows ¹		Milk per cow ²		Milk production ²		
	2019	2020	2019	2020	2019	2020	Change from 2019
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January	8,805	8,834	2,010	2,033	17,699	17,956	1.5
February	8,803	8,848	1,833	1,925	16,132	17,031	5.6
March	8,789	8,857	2,038	2,084	17,916	18,455	3.0
April	8,788	8,852	1,996	2,008	17,544	17,778	1.3
May	8,790	8,836	2,063	2,043	18,137	18,049	-0.5
June	8,784	8,827	1,974	1,974	17,342	17,427	0.5
July	8,785		1,997		17,542		
August	8,789		1,984		17,439		
September	8,805		1,908		16,796		
October	8,819		1,962		17,299		
November	8,817		1,894		16,699		
December	8,816		1,987		17,517		
Annual	8,799		23,646		208,062		

¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

Estimated Milk Cows and Production by Month – United States: 2019-2020

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

Month	Milk cows ¹		Milk per cow ²		Milk production ²		
	2019	2020	2019	2020	2019	2020	Change from 2019
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January	9,354	9,361	1,990	2,015	18,612	18,860	1.3
February	9,352	9,375	1,814	1,908	16,966	17,890	5.4
March	9,333	9,385	2,019	2,065	18,845	19,380	2.8
April	9,332	9,375	1,975	1,992	18,433	18,675	1.3
May	9,333	9,360	2,042	2,025	19,058	18,955	-0.5
June	9,327	9,350	1,954	1,958	18,225	18,308	0.5
July	9,315		1,973		18,375		
August	9,318		1,960		18,267		
September	9,333		1,885		17,595		
October	9,347		1,940		18,135		
November	9,345		1,873		17,506		
December	9,343		1,966		18,365		
Annual	9,336		23,391		218,382		

¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

Milk Cows and Production – 24 Selected States: June 2019 and 2020

[May not add due to rounding]

State	Milk cows ¹		Milk per cow ²		Milk production ²		Change from 2019
	2019	2020	2019	2020	2019	2020	
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
Arizona	194	197	1,960	1,965	380	387	1.8
California	1,726	1,721	1,900	1,925	3,279	3,313	1.0
Colorado	186	197	2,165	2,155	403	425	5.5
Florida	115	111	1,730	1,685	199	187	-6.0
Georgia	82	81	1,770	1,765	145	143	-1.4
Idaho	621	644	2,115	2,110	1,313	1,359	3.5
Illinois	84	82	1,750	1,800	147	148	0.7
Indiana	179	176	1,940	1,960	347	345	-0.6
Iowa	219	217	2,020	2,020	442	438	-0.9
Kansas	162	167	1,940	1,930	314	322	2.5
Michigan	425	427	2,285	2,260	971	965	-0.6
Minnesota	447	442	1,885	1,880	843	831	-1.4
New Mexico	324	327	2,130	1,980	690	647	-6.2
New York	627	626	2,040	2,050	1,279	1,283	0.3
Ohio	249	253	1,835	1,840	457	466	2.0
Oregon	123	124	1,755	1,745	216	216	-
Pennsylvania	490	482	1,720	1,775	843	856	1.5
South Dakota	123	135	1,885	1,885	232	254	9.5
Texas	565	590	2,030	2,030	1,147	1,198	4.4
Utah	97	96	1,960	1,955	190	188	-1.1
Vermont	126	123	1,795	1,740	226	214	-5.3
Virginia	74	74	1,645	1,700	122	126	3.3
Washington	278	278	2,050	2,030	570	564	-1.1
Wisconsin	1,268	1,257	2,040	2,030	2,587	2,552	-1.4
24-State Total	8,784	8,827	1,974	1,974	17,342	17,427	0.5

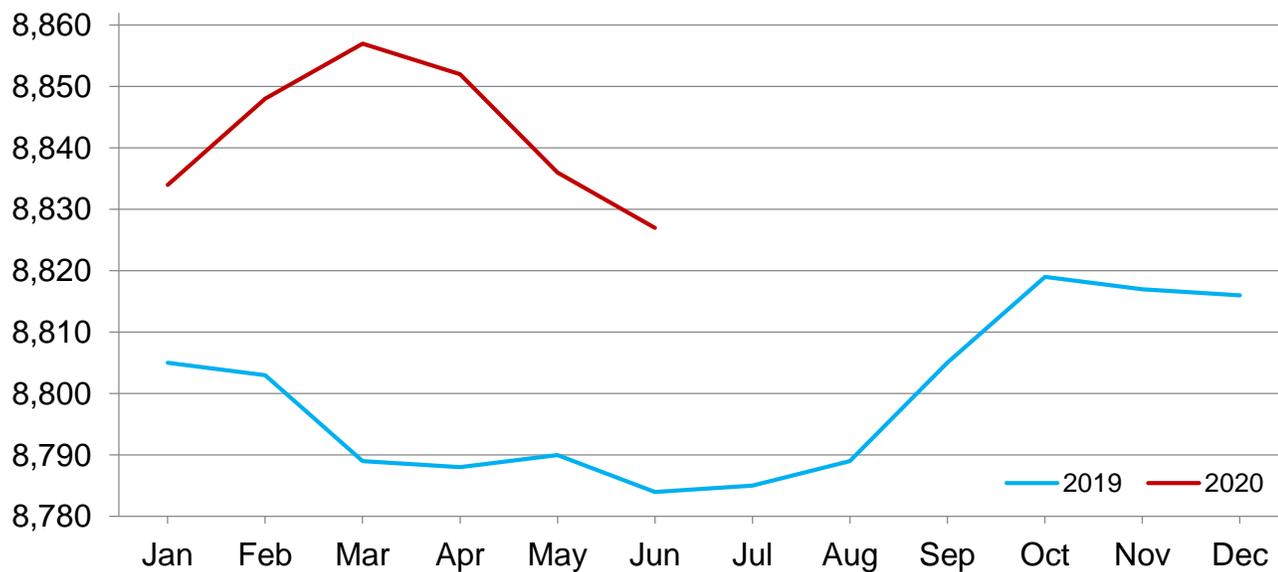
- Represents zero.

¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

Monthly Milk Cows - 24 Selected States

Thousand head



Milk Cows and Production – 24 Selected States: May 2019 and 2020

[May not add due to rounding]

	Milk cows ¹		Milk per cow ²		Milk production ²		Change from 2019
	2019	2020	2019	2020	2019	2020	
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
Arizona	195	197	2,125	2,120	414	418	1.0
California	1,726	1,722	2,060	2,070	3,556	3,565	0.3
Colorado	185	196	2,220	2,220	411	435	5.8
Florida	115	113	1,850	1,770	213	200	-6.1
Georgia	83	82	1,870	1,855	155	152	-1.9
Idaho	620	644	2,170	2,170	1,345	1,397	3.9
Illinois	84	82	1,860	1,870	156	153	-1.9
Indiana	179	176	2,030	2,030	363	357	-1.7
Iowa	219	217	2,100	2,095	460	455	-1.1
Kansas	162	168	2,020	1,975	327	332	1.5
Michigan	425	428	2,350	2,310	999	989	-1.0
Minnesota	448	443	1,925	1,930	862	855	-0.8
New Mexico	324	328	2,215	2,030	718	666	-7.2
New York	627	626	2,110	2,075	1,323	1,299	-1.8
Ohio	248	253	1,910	1,880	474	476	0.4
Oregon	122	124	1,835	1,805	224	224	-
Pennsylvania	493	483	1,810	1,815	892	877	-1.7
South Dakota	123	134	1,920	1,940	236	260	10.2
Texas	565	590	2,120	2,070	1,198	1,221	1.9
Utah	98	96	2,010	1,980	197	190	-3.6
Vermont	126	123	1,855	1,780	234	219	-6.4
Virginia	76	75	1,750	1,770	133	133	-
Washington	278	279	2,115	2,105	588	587	-0.2
Wisconsin	1,269	1,257	2,095	2,060	2,659	2,589	-2.6
24-State Total	8,790	8,836	2,063	2,043	18,137	18,049	-0.5

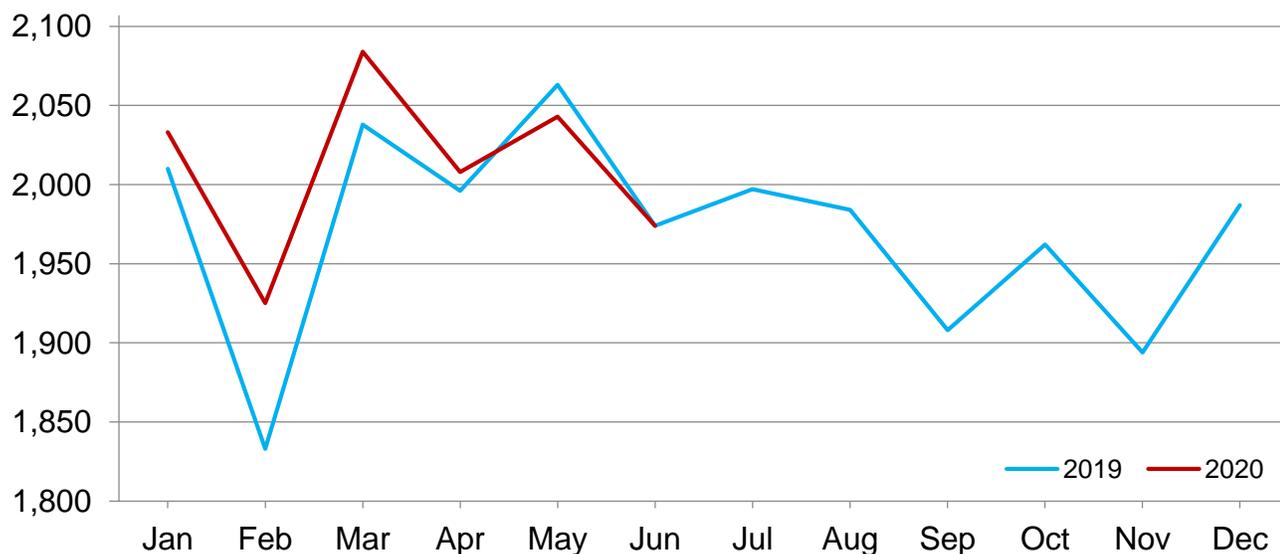
- Represents zero.

¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

Monthly Milk Per Cow - 24 Selected States

Pounds



Milk Cows and Production – States and United States: Revised January - March 2019 and 2020

[May not add due to rounding]

State	January - March milk cows ¹		January - March milk production ²		
	2019	2020	2019	2020	Change from 2019
	(1,000 head)	(1,000 head)	(million pounds)	(million pounds)	(percent)
Alabama	5.0	4.0	19.0	14.0	-26.3
Alaska	(D)	(D)	(D)	(D)	(NA)
Arizona	202.0	196.0	1,264.0	1,264.0	-
Arkansas	5.5	5.0	18.0	18.0	-
California	1,727.0	1,723.0	10,291.0	10,582.0	2.8
Colorado	181.0	193.0	1,160.0	1,253.0	8.0
Connecticut	19.5	19.5	109.0	114.0	4.6
Delaware	4.5	3.8	21.6	19.0	-12.0
Florida	116.0	116.0	625.0	639.0	2.2
Georgia	82.0	82.0	472.0	476.0	0.8
Hawaii	(D)	(D)	(D)	(D)	(NA)
Idaho	618.0	646.0	3,737.0	4,000.0	7.0
Illinois	85.0	82.0	457.0	459.0	0.4
Indiana	181.0	176.0	1,030.0	1,036.0	0.6
Iowa	220.0	217.0	1,329.0	1,343.0	1.1
Kansas	163.0	169.0	934.0	1,014.0	8.6
Kentucky	52.0	49.0	253.0	250.0	-1.2
Louisiana	11.0	10.0	40.0	39.0	-2.5
Maine	29.0	27.0	155.0	151.0	-2.6
Maryland	43.0	42.0	218.0	225.0	3.2
Massachusetts	10.5	10.0	48.0	52.0	8.3
Michigan	424.0	427.0	2,800.0	2,887.0	3.1
Minnesota	449.0	445.0	2,455.0	2,483.0	1.1
Mississippi	8.5	8.5	35.0	37.0	5.7
Missouri	79.0	77.0	285.0	280.0	-1.8
Montana	11.5	12.0	64.0	64.0	-
Nebraska	59.0	59.0	355.0	367.0	3.4
Nevada	33.0	31.0	190.0	185.0	-2.6
New Hampshire	11.5	11.0	60.0	61.0	1.7
New Jersey	5.0	4.7	26.0	26.0	-
New Mexico	323.0	333.0	2,036.0	2,114.0	3.8
New York	627.0	626.0	3,705.0	3,830.0	3.4
North Carolina	43.0	41.0	236.0	239.0	1.3
North Dakota	14.5	14.5	80.0	80.0	-
Ohio	252.0	253.0	1,343.0	1,395.0	3.9
Oklahoma	41.0	42.0	190.0	200.0	5.3
Oregon	124.0	126.0	637.0	650.0	2.0
Pennsylvania	498.0	483.0	2,565.0	2,606.0	1.6
Rhode Island	0.7	0.6	2.6	2.8	7.7
South Carolina	13.0	11.0	59.0	55.0	-6.8
South Dakota	124.0	129.0	688.0	740.0	7.6
Tennessee	33.0	31.0	150.0	145.0	-3.3
Texas	553.0	587.0	3,372.0	3,714.0	10.1
Utah	99.0	97.0	558.0	554.0	-0.7
Vermont	126.0	124.0	674.0	674.0	-
Virginia	77.0	76.0	387.0	398.0	2.8
Washington	278.0	281.0	1,640.0	1,701.0	3.7
West Virginia	6.5	6.0	24.0	23.0	-4.2
Wisconsin	1,270.0	1,260.0	7,588.0	7,630.0	0.6
Wyoming	6.0	6.5	35.9	40.0	11.4
Other States ³	1.3	1.0	2.1	1.5	-28.6
United States	9,346.0	9,374.0	54,423.0	56,130.0	3.1

- Represents zero.

(D) Withheld to avoid disclosing data for individual operations.

(NA) Not available.

¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

³ Other States includes Alaska and Hawaii.

Milk Cows and Production – States and United States: Preliminary April - June 2019 and 2020

[May not add due to rounding]

State	April - June milk cows ¹		April - June milk production ²		
	2019	2020	2019	2020	Change from 2019
	(1,000 head)	(1,000 head)	(million pounds)	(million pounds)	(percent)
Alabama	5.0	3.5	17.0	12.0	-29.4
Alaska	(D)	(D)	(D)	(D)	(NA)
Arizona	196.0	197.0	1,217.0	1,228.0	0.9
Arkansas	5.5	5.0	19.0	18.0	-5.3
California	1,726.0	1,722.0	10,330.0	10,382.0	0.5
Colorado	184.0	196.0	1,206.0	1,279.0	6.1
Connecticut	19.5	19.0	108.0	109.0	0.9
Delaware	4.2	3.8	19.2	18.7	-2.6
Florida	115.0	113.0	619.0	595.0	-3.9
Georgia	83.0	82.0	457.0	449.0	-1.8
Hawaii	(D)	(D)	(D)	(D)	(NA)
Idaho	620.0	645.0	3,937.0	4,108.0	4.3
Illinois	84.0	82.0	455.0	454.0	-0.2
Indiana	179.0	176.0	1,061.0	1,052.0	-0.8
Iowa	219.0	218.0	1,344.0	1,340.0	-0.3
Kansas	162.0	168.0	961.0	987.0	2.7
Kentucky	51.0	48.0	252.0	251.0	-0.4
Louisiana	10.5	10.0	37.0	37.0	-
Maine	30.0	27.0	162.0	152.0	-6.2
Maryland	43.0	42.0	217.0	223.0	2.8
Massachusetts	10.5	10.0	49.0	50.0	2.0
Michigan	425.0	428.0	2,920.0	2,919.0	-
Minnesota	448.0	443.0	2,527.0	2,509.0	-0.7
Mississippi	8.5	8.5	34.0	36.0	5.9
Missouri	79.0	76.0	303.0	301.0	-0.7
Montana	11.5	11.5	65.0	64.0	-1.5
Nebraska	58.0	59.0	354.0	362.0	2.3
Nevada	33.0	31.0	195.0	190.0	-2.6
New Hampshire	11.5	11.0	62.0	60.0	-3.2
New Jersey	4.8	4.7	26.0	25.0	-3.8
New Mexico	323.0	328.0	2,103.0	2,006.0	-4.6
New York	627.0	626.0	3,869.0	3,862.0	-0.2
North Carolina	43.0	41.0	236.0	233.0	-1.3
North Dakota	14.5	14.5	83.0	82.0	-1.2
Ohio	249.0	253.0	1,389.0	1,408.0	1.4
Oklahoma	42.0	42.0	192.0	194.0	1.0
Oregon	122.0	124.0	655.0	657.0	0.3
Pennsylvania	493.0	483.0	2,604.0	2,616.0	0.5
Rhode Island	0.7	0.5	2.7	2.6	-3.7
South Carolina	12.0	10.5	55.0	52.0	-5.5
South Dakota	123.0	134.0	694.0	761.0	9.7
Tennessee	32.0	30.0	145.0	141.0	-2.8
Texas	564.0	590.0	3,520.0	3,652.0	3.8
Utah	98.0	96.0	576.0	563.0	-2.3
Vermont	126.0	123.0	687.0	656.0	-4.5
Virginia	75.0	75.0	386.0	391.0	1.3
Washington	278.0	279.0	1,722.0	1,719.0	-0.2
West Virginia	6.0	6.0	23.0	23.0	-
Wisconsin	1,269.0	1,258.0	7,784.0	7,661.0	-1.6
Wyoming	6.0	7.5	36.5	46.5	27.4
Other States ³	1.0	0.9	0.9	1.3	44.4
United States	9,331.0	9,362.0	55,716.0	55,938.0	0.4

- Represents zero.

(D) Withheld to avoid disclosing data for individual operations.

(NA) Not available.

¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

³ Other States includes Alaska and Hawaii.

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: Regional Field 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 55.9 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	51	3	184	12	8
All milk cows	0.1	0.2	8	0	26	15	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@usda.gov.

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Scott Hollis, Head, Livestock Section	(202) 690-2424
Sherry Bertramsen – Livestock Slaughter	(202) 690-8632
Holly Brenize – Sheep and Goats	(202) 720-0585
Ryan Cowen – Cattle, Cattle on Feed	(202) 720-3040
Mike Miller – Milk Production and Milk Cows	(202) 720-3278
Suzanne Richards – Dairy Products	(202) 720-4448
Seth Riggins – Hogs and Pigs	(202) 720-3106

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