



# Milk Production

ISSN: 1949-1557

Released August 18, 2010, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

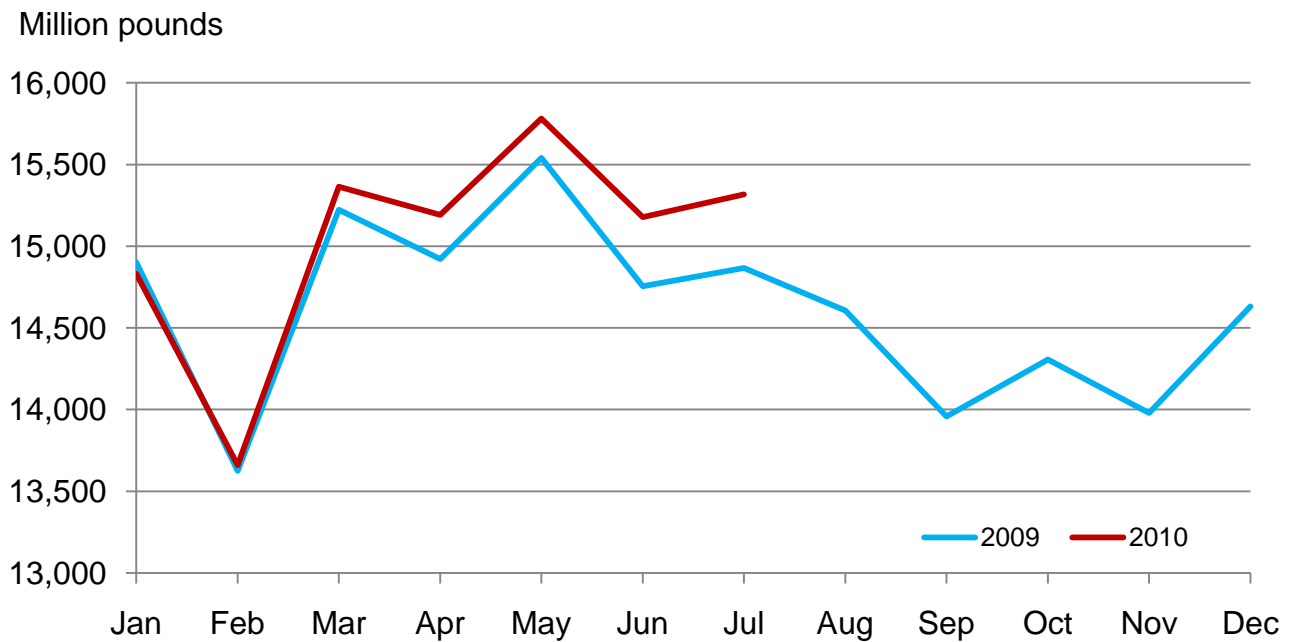
## July Milk Production up 3.0 Percent

**Milk production** in the 23 major States during July totaled 15.3 billion pounds, up 3.0 percent from July 2009. June revised production at 15.2 billion pounds, was up 2.9 percent from June 2009. The June revision represented an increase of 23 million pounds or 0.2 percent from last month's preliminary production estimate.

**Production per cow** in the 23 major States averaged 1,830 pounds for July, 59 pounds above July 2009.

**The number of milk cows** on farms in the 23 major States was 8.37 million head, 26,000 head less than July 2009, but 19,000 head more than June 2010.

## Monthly Milk Production – 23 Selected States



## Milk Cows and Production by Quarter – United States: 2009-2010

[May not add due to rounding]

Quarter	Milk cows <sup>1</sup>		Milk per cow <sup>2</sup>		Milk production <sup>2</sup>		
	2009	2010	2009	2010	2009	2010	Change from 2009
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January-March .....	9,295	9,091	5,097	5,209	47,374	47,352	1.8
April-June .....	9,262	9,112	5,278	5,460	48,888	49,747	
July-September .....	9,155		5,111		46,793		
October-December .....	9,090		5,090		46,265		
Annual .....	9,201		20,576		189,320		

<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: 2009-2010

Month	Milk cows <sup>1</sup>		Milk per cow <sup>2</sup>		Milk production <sup>2</sup>		
	2009	2010	2009	2010	2009	2010	Change from 2009
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January .....	8,506	8,315	1,752	1,784	14,902	14,831	-0.5
February .....	8,486	8,319	1,605	1,642	13,624	13,660	0.3
March .....	8,482	8,322	1,795	1,846	15,222	15,364	0.9
April .....	8,480	8,328	1,760	1,824	14,922	15,192	1.8
May .....	8,475	8,337	1,834	1,893	15,541	15,781	1.5
June .....	8,434	8,352	1,749	1,817	14,754	15,177	2.9
July .....	8,397	8,371	1,771	1,830	14,867	15,316	3.0
August .....	8,372		1,745		14,606		
September .....	8,335		1,675		13,957		
October .....	8,316		1,720		14,306		
November .....	8,314		1,681		13,979		
December .....	8,311		1,761		14,632		
Annual .....	8,409		20,848		175,312		

<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: 2009-2010

Month	Milk cows <sup>1</sup>		Milk per cow <sup>2</sup>		Milk production <sup>2</sup>		
	2009	2010	2009	2010	2009	2010	Change from 2009
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January .....	9,312	9,087	1,733	1,763	16,135	16,016	-0.7
February .....	9,289	9,091	1,588	1,622	14,754	14,749	
March .....	9,283	9,094	1,776	1,824	16,485	16,587	0.6
April .....	9,282	9,101	1,740	1,801	16,148	16,389	1.5
May .....	9,274	9,111	1,812	1,867	16,805	17,011	1.2
June .....	9,230	9,125	1,726	1,791	15,935	16,347	2.6
July .....	9,187	9,145	1,744	1,802	16,018	16,480	2.9
August .....	9,159		1,718		15,737		
September .....	9,120		1,649		15,038		
October .....	9,096		1,695		15,420		
November .....	9,091		1,658		15,070		
December .....	9,082		1,737		15,775		
Annual .....	9,201		20,576		189,320		

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

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

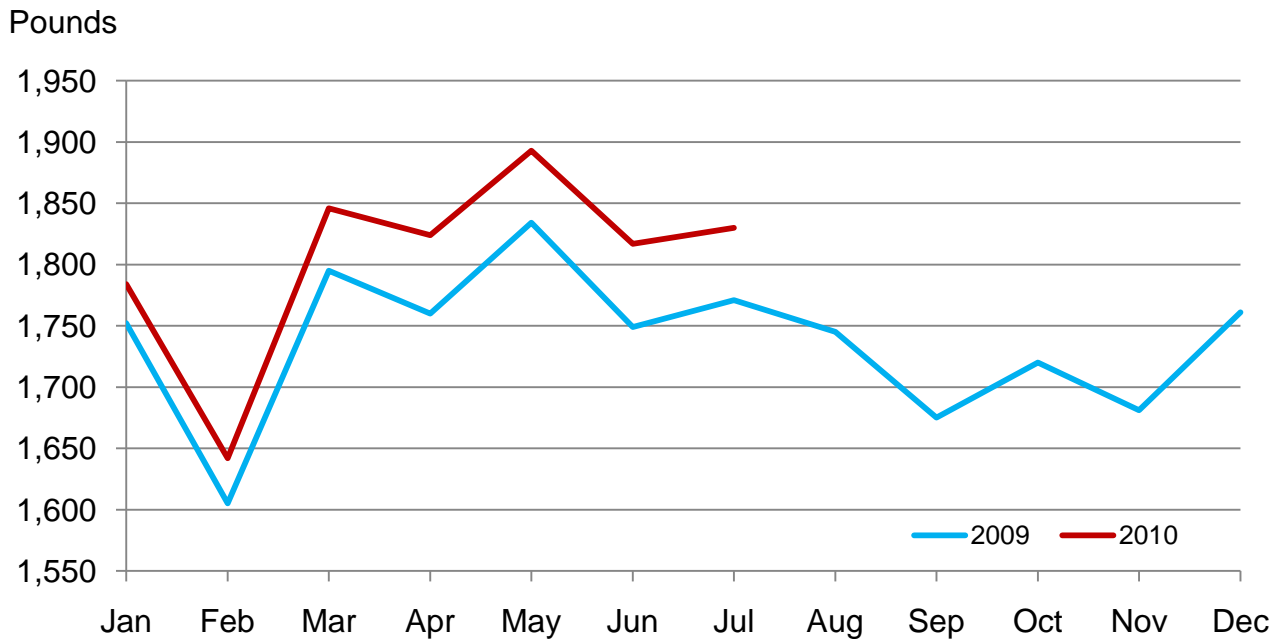
## Milk Cows and Production – 23 Selected States: July 2009 and 2010

State	Milk cows <sup>1</sup>		Milk per cow <sup>2</sup>		Milk production <sup>2</sup>		
	2009	2010	2009	2010	2009	2010	Change from 2009
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
Arizona .....	171	179	1,800	1,870	308	335	8.8
California .....	1,790	1,749	1,815	1,945	3,249	3,402	4.7
Colorado .....	124	119	1,970	2,050	244	244	
Florida .....	115	115	1,450	1,500	167	173	3.6
Idaho .....	550	567	1,930	1,970	1,062	1,117	5.2
Illinois .....	102	101	1,580	1,575	161	159	-1.2
Indiana .....	168	169	1,725	1,750	290	296	2.1
Iowa .....	215	211	1,740	1,785	374	377	0.8
Kansas .....	117	119	1,735	1,750	203	208	2.5
Michigan .....	356	359	1,945	1,980	692	711	2.7
Minnesota .....	469	470	1,670	1,690	783	794	1.4
Missouri .....	108	100	1,195	1,190	129	119	-7.8
New Mexico .....	321	324	2,050	2,095	658	679	3.2
New York .....	621	611	1,735	1,800	1,077	1,100	2.1
Ohio .....	278	270	1,630	1,690	453	456	0.7
Oregon .....	114	120	1,695	1,745	193	209	8.3
Pennsylvania .....	545	541	1,640	1,680	894	909	1.7
Texas .....	423	415	1,700	1,775	719	737	2.5
Utah .....	83	85	1,840	1,850	153	157	2.6
Vermont .....	135	137	1,570	1,540	212	211	-0.5
Virginia .....	96	95	1,510	1,515	145	144	-0.7
Washington .....	239	252	2,015	2,030	482	512	6.2
Wisconsin .....	1,257	1,263	1,765	1,795	2,219	2,267	2.2
23-State Total .....	8,397	8,371	1,771	1,830	14,867	15,316	3.0

<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



## Milk Cows and Production – 23 Selected States: June 2009 and 2010

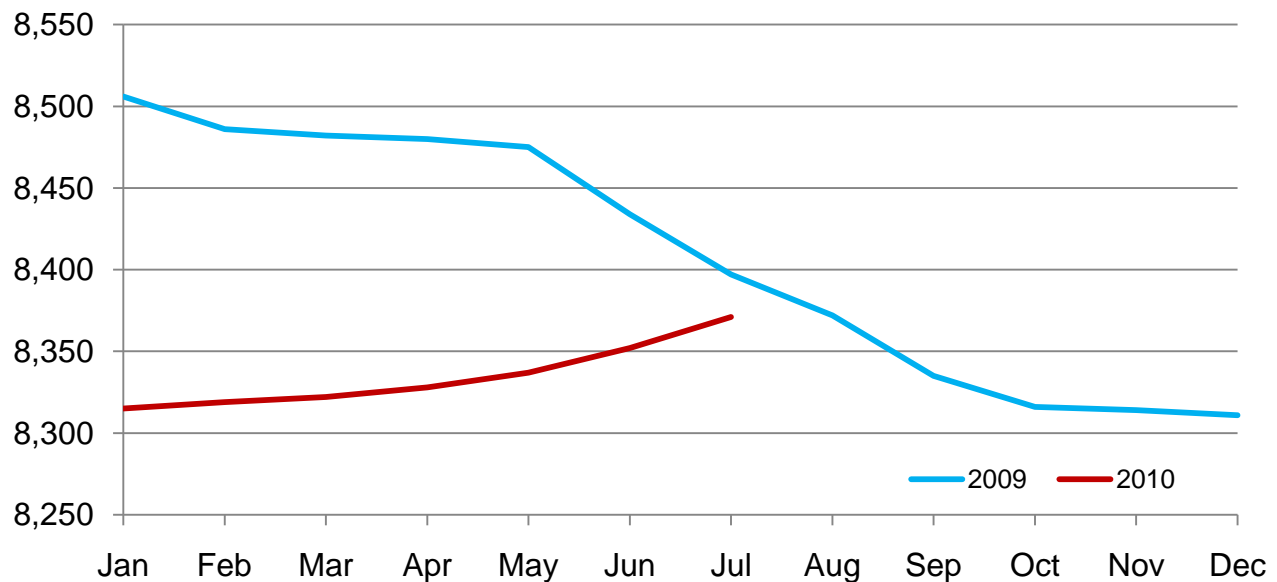
State	Milk cows <sup>1</sup>		Milk per cow <sup>2</sup>		Milk production <sup>2</sup>		Change from 2009
	2009	2010	2009	2010	2009	2010	
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
Arizona .....	176	176	1,940	2,025	341	356	4.4
California .....	1,804	1,750	1,820	1,940	3,283	3,395	3.4
Colorado .....	126	118	1,940	2,010	244	237	-2.9
Florida .....	116	115	1,535	1,600	178	184	3.4
Idaho .....	549	562	1,880	1,910	1,032	1,073	4.0
Illinois .....	102	101	1,570	1,615	160	163	1.9
Indiana .....	168	170	1,685	1,735	283	295	4.2
Iowa .....	215	212	1,710	1,760	368	373	1.4
Kansas .....	118	118	1,735	1,755	205	207	1.0
Michigan .....	357	359	1,890	1,970	675	707	4.7
Minnesota .....	469	470	1,630	1,670	764	785	2.7
Missouri .....	109	100	1,195	1,230	130	123	-5.4
New Mexico .....	327	325	2,050	2,080	670	676	0.9
New York .....	623	610	1,700	1,770	1,059	1,080	2.0
Ohio .....	278	270	1,590	1,660	442	448	1.4
Oregon .....	114	116	1,675	1,715	191	199	4.2
Pennsylvania .....	545	541	1,630	1,660	888	898	1.1
Texas .....	428	410	1,710	1,775	732	728	-0.5
Utah .....	83	85	1,785	1,810	148	154	4.1
Vermont .....	135	137	1,550	1,555	209	213	1.9
Virginia .....	96	95	1,500	1,515	144	144	
Washington .....	239	250	1,970	1,970	471	493	4.7
Wisconsin .....	1,257	1,262	1,700	1,780	2,137	2,246	5.1
23-State Total .....	8,434	8,352	1,749	1,817	14,754	15,177	2.9

<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



## 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, rather than conduct a monthly or quarterly survey, 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 and July 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, rate per cow, and number of cows are subject to revision the following month for monthly States or the following quarter for the quarterly States. Normally, Federal Market Order sales are the main basis for revisions. However, data for all orders are not available in time for this revision. 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 the 23 State milk cow inventory estimates over the past 24 months is 0.3 percent. This means that chances are 2 out of 3 that the final estimate will not be above or below the current estimate of 8.37 million head by more than 0.3 percent. Chances are 9 out of 10 that the difference will not exceed 0.5 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	Years	
						Below latest	Above latest
	(percent)	(percent)	(1,000)	(1,000)	(1,000)	(number)	(number)
Milk production .....	0.2	0.3	22	4	58	22	2
All milk cows .....	0.3	0.5	15	0	55	14	6

## 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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Joe Gaynor – Dairy Products Prices .....	(202) 690-2168
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Sherry Bertramsen – Livestock Slaughter .....	(515) 284-4340
Everett Olbert – Sheep and Goats .....	(202) 720-4751
Mike Miller – Milk Production and Milk Cows .....	(202) 720-3278
Nick Streff – Hogs and Pigs .....	(202) 720-3106

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- Printed reports may be purchased from the National Technical Information Service (NTIS) by calling toll-free (800) 999-6779, or (703) 605-6220 if calling from outside the United States or Canada. Accepted methods of payment are Visa, MasterCard, check, or money order.

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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