

# Milk Production



National  
Agricultural  
Statistics  
Service

United States  
Department of  
Agriculture

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## February Milk Production Up 4 Percent

Milk production in the 22 major States during February totaled 10.4 billion pounds, 4 percent above production in these same States in February 1994. January revised production, at 11.3 billion pounds, was 4 percent more than January 1994.

Production per cow in the 22 major States averaged 1,287 pounds for February, 51 pounds above February 1994.

The number of cows on farms in the 22 major States was 8.09 million head, 7,000 head more than February 1994 but 1,000 head less than January 1995.

During the October-December period, the 22 major States produced 32.7 billion pounds of milk, 86.2 percent of the U.S. production. If the remaining 28 States not surveyed monthly followed the same pattern as the 22 States, the U.S. production would be 12.1 billion pounds for February 1995.

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### Notice

Monthly estimates are published for New Mexico beginning with the February 1995 issue. To facilitate year to year comparisons, monthly estimates for both 1994 and 1995 include New Mexico.

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Milk Cows and Production: By Quarter, United States, 1994-95

Quarter	Milk Cows <u>1/</u>		Milk per Cow <u>2/</u>		Milk Production <u>2/</u>		1995 as % of 1994
	1994	1995	1994	1995	1994	1995	
	---- 1,000 ----		Pounds		Million Pounds		Percent
Jan-Mar	9,506		3,951		37,560		
Apr-Jun	9,530		4,188		39,916		
Jul-Sep	9,539		4,007		38,217		
Oct-Dec	9,524		3,982		37,928		
Annual	9,525		16,128		153,622		

1/ Includes dry cows. Excludes heifers not yet fresh.

2/ Excludes milk sucked by calves.

Milk Cows and Production: By Month, 22 Selected States, 1994-95

Month	Milk Cows <u>1/</u>		Milk per Cow <u>2/</u>		Milk Production <u>2/</u>		1995 as % of 1994
	1994	1995	1994	1995	1994	1995	
	---- 1,000 ----		Pounds		Million Pounds		Percent
Jan	8,092	8,090	1,343	1,394	10,870	11,280	104
Feb	8,082	8,089	1,236	1,287	9,990	10,413	104
Mar	8,074		1,401		11,315		
Apr	8,080		1,396		11,282		
May	8,097		1,457		11,799		
Jun	8,107		1,388		11,249		
Jul	8,104		1,389		11,260		
Aug	8,108		1,369		11,102		
Sep	8,109		1,318		10,689		
Oct	8,104		1,354		10,970		
Nov	8,098		1,312		10,624		
Dec	8,094		1,370		11,090		
Annual	8,096		16,334		132,240		

1/ Includes dry cows. Excludes heifers not yet fresh.

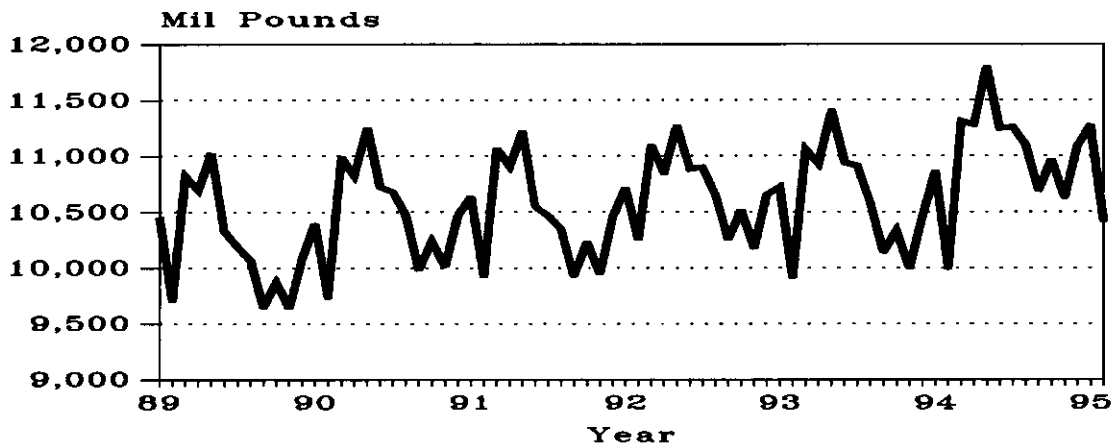
2/ Excludes milk sucked by calves.

Milk Cows and Production: By State, February 1994-95

State	Milk Cows <u>1/</u>		Milk per Cow <u>2/</u>		Milk Production <u>2/</u>		1995 as % of 1994
	1994	1995	1994	1995	1994	1995	
	---- 1,000 ----		Pounds		Million Pounds		Percent
CA	1,223	1,252	1,490	1,520	1,822	1,903	104
FL	176	168	1,290	1,320	227	222	98
ID	197	221	1,280	1,360	252	301	119
IL	165	163	1,210	1,260	200	205	103
IN	145	145	1,210	1,200	175	174	99
IA	264	262	1,175	1,195	310	313	101
KY	172	163	885	965	152	157	103
MD	95	92	1,115	1,195	106	110	104
MI	329	326	1,245	1,305	410	425	104
MN	620	600	1,195	1,245	741	747	101
MO	198	193	1,040	1,115	206	215	104
NM	155	174	1,555	1,569	241	273	113
NY	722	706	1,200	1,240	866	875	101
NC	91	89	1,320	1,340	120	119	99
OH	299	289	1,175	1,260	351	364	104
PA	637	641	1,240	1,280	790	820	104
TN	159	159	970	1,030	154	164	106
TX	400	398	1,260	1,280	504	509	101
VT	160	156	1,180	1,240	189	193	102
VA	130	129	1,160	1,285	151	166	110
WA	256	263	1,505	1,560	385	410	106
WI	1,489	1,500	1,100	1,165	1,638	1,748	107
22-State:							
Total	8,082	8,089	1,236	1,287	9,990	10,413	104

1/ Includes dry cows. Excludes heifers not yet fresh.  
2/ Excludes milk sucked by calves.

**Milk Production, 1989-1995**  
 22 States 1/



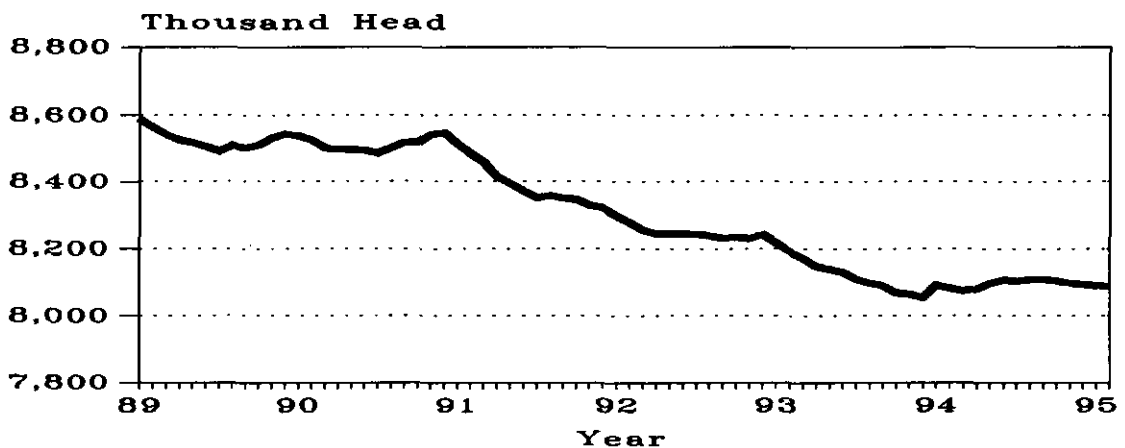
1/ New Mexico added, beginning January 1994

Milk Cows and Production: By State, January 1994-95 1/

State	Milk Cows <u>2/</u>		Milk per Cow <u>3/</u>		Milk Production <u>3/</u>		1995 as % of 1994
	1994	1995	1994	1995	1994	1995	
	---- 1,000 ----		Pounds		Million Pounds		Percent
CA	1,220	1,250	1,630	1,670	1,989	2,088	105
FL	175	168	1,340	1,375	235	231	98
ID	195	220	1,430	1,490	279	328	118
IL	166	163	1,290	1,270	214	207	97
IN	145	145	1,310	1,280	190	186	98
IA	265	265	1,230	1,295	326	343	105
KY	173	163	990	1,060	171	173	101
MD	95	92	1,240	1,305	115	120	104
MI	329	326	1,370	1,425	451	465	103
MN	620	600	1,295	1,345	803	807	100
MO	200	195	1,130	1,210	226	236	104
NM	150	174	1,693	1,695	254	295	116
NY	724	708	1,315	1,355	952	959	101
NC	91	89	1,420	1,440	129	128	99
OH	300	290	1,285	1,340	386	389	101
PA	640	639	1,340	1,390	858	888	103
TN	160	160	990	1,030	158	165	104
TX	400	399	1,335	1,370	534	547	102
VT	161	156	1,305	1,355	210	211	100
VA	130	129	1,285	1,350	167	174	104
WA	258	259	1,635	1,705	422	442	105
WI	1,495	1,500	1,205	1,265	1,801	1,898	105
22-State:							
Total	8,092	8,090	1,343	1,394	10,870	11,280	104

1/ 1994 and 1995 revised. 2/ Includes dry cows. Excludes heifers not yet fresh. 3/ Excludes milk sucked by calves.

**All Milk Cows, 1989-1995**  
22 States 1/



1/ New Mexico added, beginning January 1994.

**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. About 20,000 producers are sampled in January and data are collected from about 10,000 respondents. There are about 7,300 respondents in each of the remaining quarters. 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.

**Estimation Procedures:** State offices prepare these estimates using 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, conducted by the Department of Commerce, 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 milk cow inventory estimates over the past 10 quarters is 0.6 percent. This means that chances are 2 out of 3 that the final October-December estimate will not be above or below the current estimate of 9.52 million head by more than 0.6 percent, or about 57,000 head. Chances are 9 out of 10 that the difference will not exceed 1.0 percent, or about 95,000 head (the 90 percent confidence level).

Reliability of October-December Milk Estimates 1/

Item	Root Mean Square Error	90% Confidence Level	Difference Between First and Final Estimates <u>1/</u>			Number of Quarters		
			Average	Smallest	Largest	Above Final	Below Final	
Milk Production	0.7	1.2	455	172	7	565	9	1
All Milk Cows	0.6	1.0	95	44	4	126	10	0

----- 1,000 Head -----

1/ Based on records for the past 10 October-December quarters.



