

# Milk Production



United States  
Department of  
Agriculture

Washington, D.C.

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## April Milk Production

**Milk production** in the 21 major States during April totaled 11.0 billion pounds, 1 percent more than production in these same States in April 1993. March revised production at 11.1 billion pounds was slightly above March 1993.

**Production per cow** in the 21 major States averaged 1.372 pounds for April, 31 pounds more than April 1993.

**The number of cows** on farms in the 21 major States was 8.01 million head, 138,000 head less than April 1993 but 5,000 head more than March 1994.

**During the January-March period**, the 21 major States produced 31.5 billion pounds of milk, 83.8 percent of the U.S. production. If producers in the remaining 29 States not surveyed monthly followed the same pattern as the 21 States, the U.S. production would be 13.1 billion pounds for April 1994.

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Milk Cows and Production: By Month, 21 Selected States, 1993-94

Month	Milk Cows <u>1/</u>		Milk per Cow <u>2/</u>		Milk Production <u>2/</u>		
	1993	1994	1993	1994	1993	1994	1994 as % of 1993
	---- 1,000 ----		---- Pounds ----		Million Pounds		Percent
Jan	8,219	8,042	1,305	1,323	10,728	10,637	99
Feb	8,193	8,018	1,209	1,222	9,908	9,802	99
Mar	8,173	8,005	1,353	1,384	11,060	11,079	100
Apr	8,148	8,010	1,341	1,372	10,927	10,990	101
May	8,139		1,402		11,410		
Jun	8,130		1,346		10,940		
Jul	8,110		1,346		10,913		
Aug	8,098		1,306		10,573		
Sep	8,090		1,253		10,138		
Oct	8,069		1,280		10,331		
Nov	8,065		1,239		9,994		
Dec	8,054		1,299		10,461		
Annual	8,124		15,680		127,383		

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

2/ Excludes milk sucked by calves by calves.

Milk Cows and Production: By State, April 1993-94

State	Milk Cows <u>1/</u>		Milk per Cow <u>2/</u>		Milk Production <u>2/</u>		1994 as % of 1993
	1993	1994	1993	1994	1993	1994	
	---- 1,000 ----		---- Pounds ----		Million Pounds		Percent
CA	1,176	1,204	1,620	1,715	1,905	2,065	108
FL	177	178	1,320	1,410	234	251	107
ID	185	199	1,380	1,470	255	293	115
IL	178	174	1,270	1,270	226	221	98
IN	143	145	1,320	1,330	189	193	102
IA	297	287	1,160	1,150	345	330	96
KY	180	171	1,055	1,050	190	180	95
MD	100	93	1,210	1,290	121	120	99
MI	339	339	1,340	1,390	454	471	104
MN	650	630	1,310	1,285	852	810	95
MO	223	217	1,155	1,140	258	247	96
NY	748	739	1,305	1,330	976	983	101
NC	95	91	1,385	1,450	132	132	100
OH	306	301	1,300	1,300	398	391	98
PA	647	645	1,345	1,335	870	861	99
TN	190	170	990	1,140	188	194	103
TX	383	394	1,390	1,495	532	589	111
VT	162	160	1,310	1,305	212	209	99
VA	132	130	1,310	1,260	173	164	95
WA	256	260	1,630	1,660	417	432	104
WI	1,581	1,483	1,265	1,250	2,000	1,854	93
21 State:							
Total	8,148	8,010	1,341	1,372	10,927	10,990	101

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

2/ Excludes milk sucked by calves.

Milk Cows and Production: By Quarter, United States, 1993-94

Quarter	Milk Cows <u>1/</u>		Milk per Cow <u>2/</u>		Milk Production <u>2/</u>		1994 as % of 1993
	1993	1994	1993	1994	1993	1994	
	---- 1,000 ----		---- Pounds ----		Million Pounds		Percent
Jan-Mar	9,773	9,607	3,848	3,916	37,608	37,622	100
Apr-Jun	9,727		4,052		39,411		
Jul-Sep	9,675		3,862		37,364		
Oct-Dec	9,644		3,792		36,571		
Annual	9,705		15,554		150,954		

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

2/ Excludes milk sucked by calves.

Milk Cows and Production: By State, March 1993-94 1/

State	Milk Cows <u>2/</u>		Milk per Cow <u>3/</u>		Milk Production <u>3/</u>		1994 as % of 1993
	1993	1994	1993	1994	1993	1994	
	---- 1,000 ----		---- Pounds ----		Million Pounds		Percent
CA	1,174	1,200	1,630	1,745	1,914	2,094	109
FL	179	178	1,385	1,485	248	264	106
ID	185	198	1,390	1,460	257	289	112
IL	178	174	1,280	1,270	228	221	97
IN	143	145	1,330	1,360	190	197	104
IA	298	287	1,170	1,170	349	336	96
KY	182	171	1,000	1,005	182	172	95
MD	100	93	1,230	1,320	123	123	100
MI	340	339	1,370	1,400	466	475	102
MN	655	630	1,345	1,310	881	825	94
MO	221	215	1,140	1,100	252	237	94
NY	748	742	1,315	1,330	984	987	100
NC	95	91	1,425	1,475	135	134	99
OH	308	301	1,310	1,280	403	385	96
PA	650	647	1,355	1,355	881	877	100
TN	190	171	940	1,100	179	188	105
TX	382	393	1,405	1,510	537	593	110
VT	163	160	1,325	1,325	216	212	98
VA	133	130	1,345	1,290	179	168	94
WA	254	257	1,660	1,685	422	433	103
WI	1,595	1,483	1,275	1,260	2,034	1,869	92
21 State Total	8,173	8,005	1,353	1,384	11,060	11,079	100

1/ 1993 and 1994 revised.

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

3/ Excludes milk sucked by calves.

**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 0.4 percent. This means that chances are 2 out of 3 that the final estimate will not be above or below the current estimate of 9.61 million head by more than 0.4 percent, or about 38,000 head. Chances are 9 out of 10 that the difference will not exceed 0.8 percent, or about 76,800 head (the 90 percent confidence level).

Reliability of January-March 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	First Above Final	First Below Final
	- Percent -		----- Mil Lbs. -----			- Number -	
Milk Production	0.4	0.7	262	119	7	271	8 2
			----- 1,000 Head -----				
All Milk Cows	0.4	0.8	77	31	1	90	9 1

1/ Based on records for the past 10 January-March quarters.

The next "Milk Production" report will be released at 3 p.m. ET on June 15, 1994.

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