

Milk Production



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October Milk Production up 3 Percent

Milk production in the 21 major States during October totaled 10.7 billion pounds, 3 percent above production in these same States in October 1993. September revised production, at 10.5 billion pounds, was 4 percent more than September 1993.

Production per cow in the 21 major States averaged 1,330 pounds for October, 50 pounds above October 1993.

The number of cows on farms in the 21 major States was 8.03 million head, 41,000 head less than October 1993 and 9,000 head less than September 1994.

During the July-September period, the 21 major States produced 32.3 billion pounds of milk, 84.1 percent of the U.S. production. If the remaining 29 States not surveyed monthly followed the same pattern as the 21 States, the U.S. production would be 12.7 billion pounds for October 1994.

For information call Daniel Buckner at (202) 720-4448. Office hours are 8:00 a.m. to 4:30 p.m. ET.

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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	9,612	3,848	3,921	37,608	37,692	100
Apr-Jun	9,727	9,641	4,052	4,146	39,411	39,973	101
Jul-Sep	9,675	9,656	3,862	3,979	37,364	38,426	103
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 Month, 21 Selected States, 1993-94

Month	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	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	8,014	1,341	1,377	10,927	11,038	101
May	8,139	8,021	1,402	1,428	11,410	11,452	100
Jun	8,130	8,038	1,346	1,368	10,940	10,998	101
Jul	8,110	8,030	1,346	1,369	10,913	10,996	101
Aug	8,098	8,034	1,306	1,348	10,573	10,830	102
Sep	8,090	8,037	1,253	1,306	10,138	10,499	104
Oct	8,069	8,028	1,280	1,330	10,331	10,679	103
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.

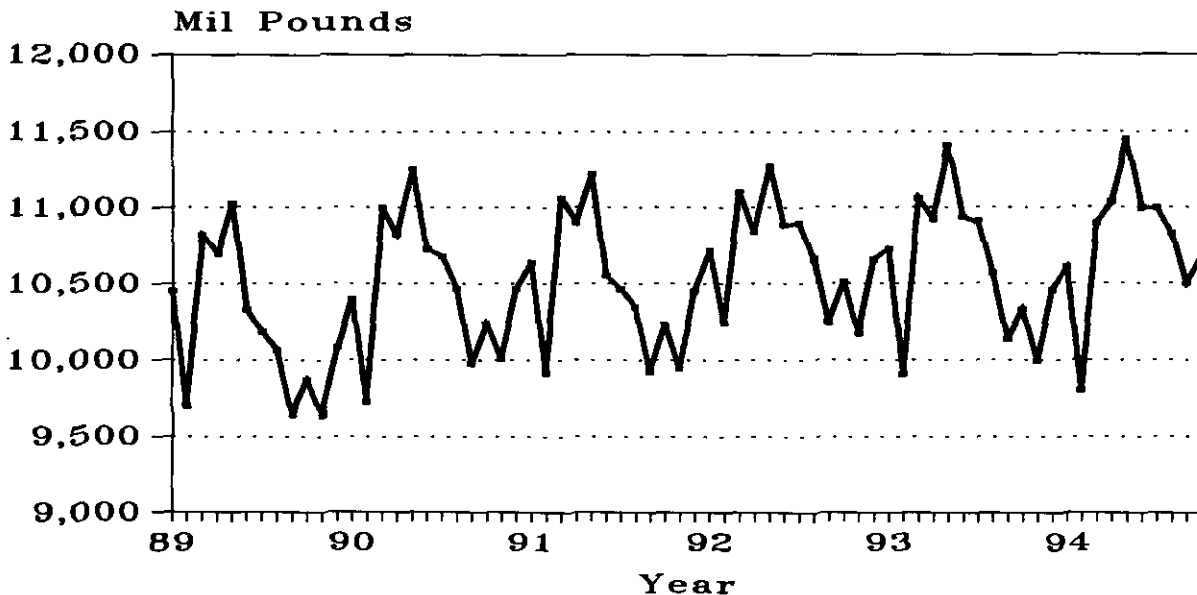
2/ Excludes milk sucked by calves.

Milk Cows and Production: By State, October 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	1,187	1,225	1,650	1,740	1,959	2,132	109
FL	177	174	1,065	1,095	189	191	101
ID	193	217	1,460	1,550	282	336	119
IL	175	176	1,190	1,250	208	220	106
IN	145	145	1,260	1,260	183	183	100
IA	293	282	1,140	1,180	334	333	100
KY	176	165	960	1,020	169	168	99
MD	96	91	1,165	1,260	112	115	103
MI	338	335	1,310	1,375	443	461	104
MN	640	620	1,160	1,205	742	747	101
MO	220	216	990	1,005	218	217	100
NY	750	734	1,230	1,250	923	918	99
NC	92	90	1,305	1,320	120	119	99
OH	302	293	1,255	1,300	379	381	101
PA	652	649	1,285	1,305	838	847	101
TN	181	164	970	1,030	176	169	96
TX	386	399	1,230	1,205	475	481	101
VT	162	159	1,250	1,250	203	199	98
VA	131	129	1,250	1,250	164	161	98
WA	258	263	1,625	1,640	419	431	103
WI	1,515	1,502	1,185	1,245	1,795	1,870	104
21 State Total	8,069	8,028	1,280	1,330	10,331	10,679	103

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

Milk Production, 1989-1994 21 States

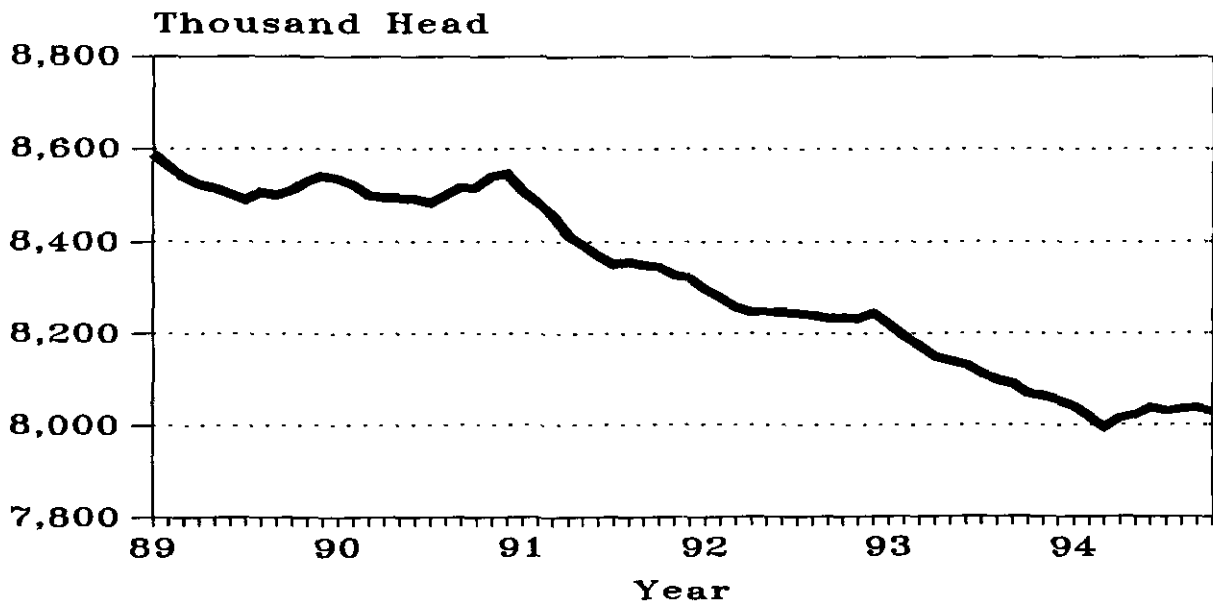


Milk Cows and Production: By State, September 1993-94 ^{1/}

State	Milk Cows ^{2/}		Milk per Cow ^{3/}		Milk Production ^{3/}		1994 as % of 1993
	1993	1994	1993	1994	1993	1994	
	----- 1,000 -----		Pounds		Million Pounds		Percent
CA	1,184	1,222	1,620	1,710	1,918	2,090	109
FL	179	175	990	1,010	177	177	100
ID	192	214	1,430	1,520	275	325	118
IL	175	176	1,200	1,270	210	224	107
IN	145	145	1,230	1,250	178	181	102
IA	293	287	1,135	1,150	333	330	99
KY	176	167	940	980	165	164	99
MD	96	92	1,105	1,210	106	111	105
MI	339	335	1,310	1,350	444	452	102
MN	645	620	1,125	1,160	726	719	99
MO	222	218	970	985	215	215	100
NY	749	733	1,225	1,290	918	946	103
NC	93	90	1,205	1,245	112	112	100
OH	302	295	1,230	1,260	371	372	100
PA	651	651	1,225	1,240	797	807	101
TN	182	163	950	1,030	173	168	97
TX	386	400	1,165	1,150	450	460	102
VT	161	159	1,240	1,235	200	196	98
VA	131	129	1,185	1,200	155	155	100
WA	260	263	1,580	1,540	411	431	105
WI	1,529	1,503	1,180	1,240	1,804	1,864	103
21 State:							
Total	8,090	8,037	1,253	1,306	10,138	10,499	104

^{1/} 1993 and 1994 revised. ^{2/} Includes dry cows. Excludes heifers not yet fresh. ^{3/} Excludes milk sucked by calves.

All Milk Cows, 1989-1994 21 States



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 estimate will not be above or below the current estimate of 9.66 million head by more than 0.6 percent, or about 58,000 head. Chances are 9 out of 10 that the difference will not exceed 1.1 percent, or about 106,000 head (the 90 percent confidence level).

Reliability of July-September 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	0.7	1.3	499	204	15	538	10	0
			----- 1,000 Head -----					
All Milk Cows	0.6	1.1	106	46	1	135	10	0

1/ Based on records for the past 10 July-September quarters.

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

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