

Milk Production



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Department of
Agriculture

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August Milk Production Up 2 Percent

Milk production in the 21 major States during August totaled 10.8 billion pounds, 2 percent above production in these same States in August 1993. July revised production, at 11.0 billion pounds was 1 percent more than July 1993.

Production per cow in the 21 major States averaged 1,344 pounds for August, 38 pounds above August 1993.

The number of cows on farms in the 21 major States was 8.03 million head, 65,000 head less than August 1993 but 3,000 head more than July 1994.

During the April-June period, the 21 major States produced 33.5 billion pounds of milk, 83.8 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 12.9 billion for August 1994.

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

Quarter % of	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		
Jan-Mar	9,773	9,612	3,848	3,921	37,608	37,692	100
Apr-Jun	9,727	9,638	4,052	4,146	39,411	39,960	101
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 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		
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	8,033	1,306	1,344	10,573	10,793	102
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.

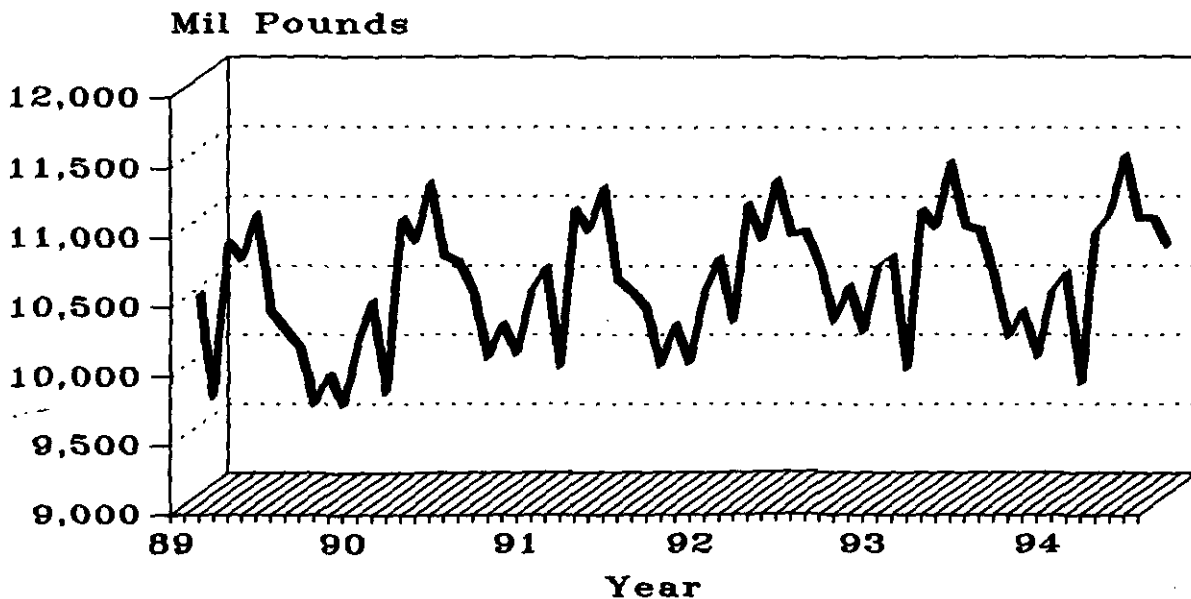
2/ Excludes milk sucked by calves.

Milk Cows and Production: By State. August 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	1,182	1,219	1,680	1,755	1,986	2,139	108
FL	179	176	1,035	1,075	185	189	102
ID	192	210	1,490	1,580	286	332	116
IL	176	175	1,270	1,270	224	222	99
IN	145	145	1,290	1,330	187	193	103
IA	294	287	1,145	1,170	337	336	100
KY	177	167	990	1,000	175	167	95
MD	97	92	1,165	1,215	113	112	99
MI	339	335	1,350	1,390	458	466	102
MN	645	620	1,190	1,210	768	750	98
MO	223	220	1,015	1,005	226	221	98
NY	751	733	1,260	1,270	946	931	98
NC	94	91	1,200	1,265	113	115	102
OH	303	297	1,245	1,255	377	373	99
PA	649	651	1,295	1,285	840	837	100
TN	182	163	950	1,050	173	171	99
TX	386	398	1,170	1,195	452	476	105
VT	160	159	1,295	1,260	207	200	97
VA	132	129	1,225	1,150	162	148	91
WA	261	263	1,645	1,725	429	454	106
WI	1,531	1,503	1,260	1,305	1,929	1,961	102
21 State Total	8,098	8,033	1,306	1,344	10,573	10,793	102

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

Milk Production, 1989-1994 21 States

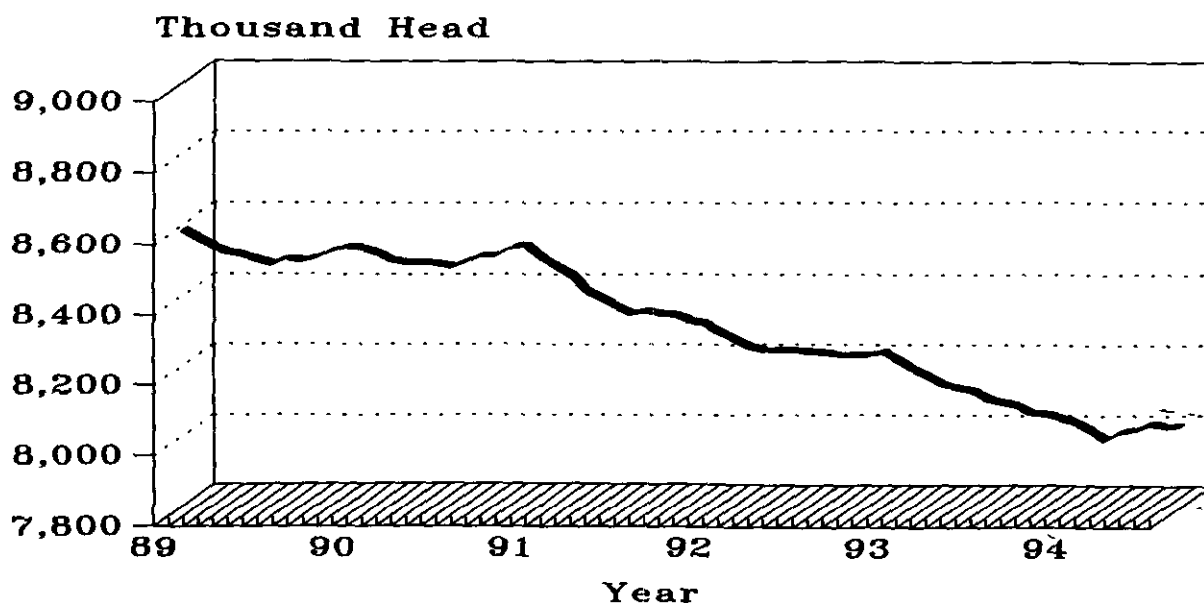


Milk Cows and Production: By State, July 1993-94 ^{1/}

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	1,181	1,219	1,690	1,770	1,996	2,158	108
FL	178	176	1,110	1,155	198	203	103
ID	192	208	1,510	1,610	290	335	116
IL	176	175	1,280	1,270	225	222	99
IN	145	145	1,360	1,340	197	194	98
IA	294	287	1,170	1,170	344	336	98
KY	178	167	985	970	175	162	93
MD	97	93	1,145	1,170	111	109	98
MI	339	335	1,380	1,400	468	469	100
MN	650	620	1,270	1,275	826	791	96
MO	223	220	1,080	1,010	241	222	92
NY	744	731	1,320	1,320	982	965	98
NC	94	91	1,225	1,285	115	117	102
OH	304	298	1,275	1,290	388	384	99
PA	649	650	1,345	1,310	873	852	98
TN	183	163	950	1,040	174	170	98
TX	386	398	1,255	1,225	484	488	101
VT	161	159	1,310	1,275	211	203	96
VA	131	129	1,185	1,155	155	149	96
WA	260	262	1,675	1,725	436	452	104
WI	1,545	1,504	1,310	1,340	2,024	2,015	100
21 State Total	8,110	8,030	1,346	1,369	10,913	10,996	101

^{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 0.5 percent. This means that chances are 2 out of 3 that the final estimate will not be above or below the current estimate of 9.64 million head by more than 0.5 percent, or about 48,000 head. Chances are 9 out of 10 that the difference will not exceed 0.8 percent, or about 77,100 head (the 90 percent confidence level).

Reliability of April-June Milk Estimates ^{1/}

Item	Root Mean Square Error	90% Confidence Level	Difference Between First and Final Estimates ^{1/}			Number of Quarters		
			Average	Smallest	Largest	Above Final	Below Final	
Milk Production	0.5	1.0	400	155	0	394	6	3
				----- 1,000 Head -----				
All Milk Cows	0.5	0.8	77	36	5	94	9	1

^{1/} Based on records for the past 10 April-June quarters.

