

# Milk Production



United States  
Department of  
Agriculture

Washington, D.C.

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Released August 16, 1995, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, U.S. Department of Agriculture. For information on "Milk Production" call Kevin Hintzman at (202) 720-4448, office hours 8:00 a.m. to 4:30 p.m. ET. For assistance with general agricultural statistics, information about NASS, its products or services, contact the NASS Information Hotline at 1-800-727-9540 or E-mail: NASS@AG.GOV.

## July Milk Production Up 1 Percent

Milk production in the 22 major States during July totaled 11.4 billion pounds, 1 percent above production in these same States in July 1994. June revised production, at 11.5 billion pounds was 2 percent more than June 1994.

Production per cow in the 22 major States averaged 1,409 pounds for July, 20 pounds above July 1994.

The number of cows on farms in the 22 major States was 8.10 million head, unchanged from both July 1994 and June 1995.

During the April-June period, the 22 major States produced 34.9 billion pounds of milk, 86.1 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 13.3 billion pounds for July 1995.

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### Note

Page 6 contains corrections to the "Grain and Other Concentrates" table published in the July Milk Production report. The corrections affected the U.S. estimates only.

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

Quarter	Milk Cows 1/		Milk per Cow 2/		Milk Production 2/		1995 as % of 1994
	1994	1995	1994	1995	1994	1995	
	-----	1,000	-----		Pounds	Million Pounds	Percent
Jan-Mar	9,506	9,517	3,951	4,093	37,560	38,950	104
Apr-Jun	9,530	9,517	4,188	4,254	39,916	40,487	101
Jul-Sep	9,539		4,007		38,217		
Oct-Dec	9,524		3,983		37,933		
Annual	9,525		16.129		153.626		

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 1/		Milk per Cow 2/		Milk Production 2/		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	8,088	1,236	1,291	9,990	10,441	105
Mar	8,074	8,103	1,401	1,444	11,315	11,698	103
Apr	8,080	8,097	1,396	1,417	11,282	11,477	102
May	8,097	8,093	1,457	1,475	11,799	11,936	101
Jun	8,107	8,104	1,388	1,414	11,249	11,461	102
Jul	8,104	8,104	1,389	1,409	11,260	11,415	101
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, July 1994-95

State	Milk Cows 1/		Milk per Cow 2/		Milk Production 2/		
	1994	1995	1994	1995	1994	1995	1995 as % of 1994
	---- 1,000 ----		Pounds		Million Pounds		Percent
CA	1,237	1,254	1,745	1,745	2,159	2,188	101
FL	176	162	1,155	1,140	203	185	91
ID	211	234	1,610	1,580	340	370	109
IL	165	162	1,300	1,330	215	215	100
IN	145	144	1,340	1,300	194	187	96
IA	264	262	1,270	1,305	335	342	102
KY	167	163	970	1,025	162	167	103
MD	92	94	1,140	1,160	105	109	104
MI	328	327	1,470	1,490	482	487	101
MN	605	600	1,305	1,325	790	795	101
MO	198	188	1,115	1,190	221	224	101
NM	170	198	1,694	1,610	288	319	111
NY	715	700	1,355	1,390	969	973	100
NC	91	86	1,285	1,325	117	114	97
OH	294	288	1,290	1,330	379	383	101
PA	640	640	1,330	1,375	851	880	103
TN	156	154	1,020	1,060	159	163	103
TX	402	402	1,215	1,190	488	478	98
VT	157	157	1,305	1,300	205	204	100
VA	129	129	1,170	1,210	151	156	103
WA	262	268	1,725	1,725	452	462	102
WI	1,500	1,492	1,330	1,350	1,995	2,014	101
22 State:							
Total	8,104	8,104	1,389	1,409	11,260	11,415	101

1/ Includes dry cows, excludes heifers not yet fresh.

2/ Excludes milk sucked by calves.

Milk Cows and Production: By State. June 1994-95 1/

State	Milk Cows 2/		Milk per Cow 3/		Milk Production 3/		1995 as % of 1994
	1994	1995	1994	1995	1994	1995	
	---- 1,000 ----		Pounds		Million Pounds		Percent
CA	1,235	1,254	1,715	1,680	2,118	2,105	99
FL	178	162	1,245	1,220	222	198	89
ID	208	232	1,560	1,520	324	353	109
IL	165	163	1,300	1,340	215	218	101
IN	145	144	1,280	1,290	186	186	100
IA	264	262	1,260	1,310	333	343	103
KY	167	163	975	1,050	163	171	105
MD	92	94	1,175	1,200	108	113	105
MI	328	327	1,450	1,470	476	481	101
MN	610	600	1,335	1,370	814	822	101
MO	198	190	1,110	1,200	220	228	104
NM	169	196	1,657	1,585	280	311	111
NY	718	702	1,380	1,430	991	1,004	101
NC	91	86	1,330	1,365	121	117	97
OH	295	288	1,235	1,340	364	386	106
PA	640	639	1,360	1,400	870	895	103
TN	157	154	1,030	1,110	162	171	106
TX	404	402	1,240	1,255	501	505	101
VT	156	157	1,320	1,370	206	215	104
VA	130	129	1,145	1,240	149	160	107
WA	262	268	1,700	1,700	445	456	102
WI	1,495	1,492	1,325	1,355	1,981	2,023	102
22 State:							
Total	8,107	8,104	1,388	1,414	11,249	11,461	102

1/ 1995 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. 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 1.1 percent. This means that chances are 2 out of 3 that the final April-June estimate will not be above or below the current estimate of 9.52 million head by more than 1.1 percent, or about 105,000 head. Chances are 9 out of 10 that the difference will not exceed 2.1 percent, or about 200,000 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	First Above Final	First Below Final	
Milk Production	0.6	1.1	445	204	38	426	8	2
All Milk Cows	1.1	2.1	200	97	12	188	10	0

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

Grain and Other Concentrates: Quantity Fed Annually and Value United States

Year	Annual Quantity Fed to Milk Cows			Annual Average Value of Feed per Cwt	Annual Average Feed Value per Cwt of Milk
	Total	Per Cow	Per Cwt of Milk		
	: 1,000 Tons	: Pounds		: Dollars	
1993	31,952	6,664	42.4*	7.78	3.30*
1994	32,584	6,846	42.4*	7.98	3.39*

\* Corrected estimates.

The next "Milk Production" report will be released at 3 p.m. ET on September 15, 1995.

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