

# Milk Production



United States  
Department of  
Agriculture

Washington, D.C.

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## September Milk Production Up 1 Percent

Milk production in the 22 major States during September totaled 10.8 billion pounds, 1 percent above production in these same States in September 1994. August revised production, at 11.1 billion pounds was slightly more than August 1994.

Production per cow in the 22 major States averaged 1,331 pounds for September, 13 pounds above September 1994.

The number of cows on farms in the 22 major States was 8.11 million head, up 4,000 head from both September 1994 and August 1995.

During the July-September period, the 22 major States produced 33.3 billion pounds of milk, 86.6 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 13.2 billion pounds for July, 12.8 billion pounds for August, and 12.5 billion pounds for September.

## U.S. July-September Milk Production Up 1 Percent

The quarterly production of milk for the U.S. was 38.5 billion, 1 percent above the July-September period last year. The average number of milk cows in the U.S. during the July-September quarter was 9.52 million head 19,000 head less than the same period last year.

## Grain and Other Concentrates

Grain and other concentrates fed to milk cows on October 1, 1995, averaged 18.4 pounds per cow, 0.3 pound less than October 1, 1994.

## Value of Grain and Other Concentrates

The value of grain and other concentrates fed to cows on October 1, averaged \$7.97 per hundredweight, \$0.10 more than October 1, 1994.

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	9,516	4,188	4,254	39,916	40,484	101
Jul-Sep	9,539	9,520	4,007	4,043	38,217	38,485	101
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	8,106	1,389	1,408	11,260	11,412	101
Aug	8,108	8,109	1,369	1,372	11,102	11,128	100
Sep	8,109	8,113	1,318	1,331	10,689	10,798	101
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.

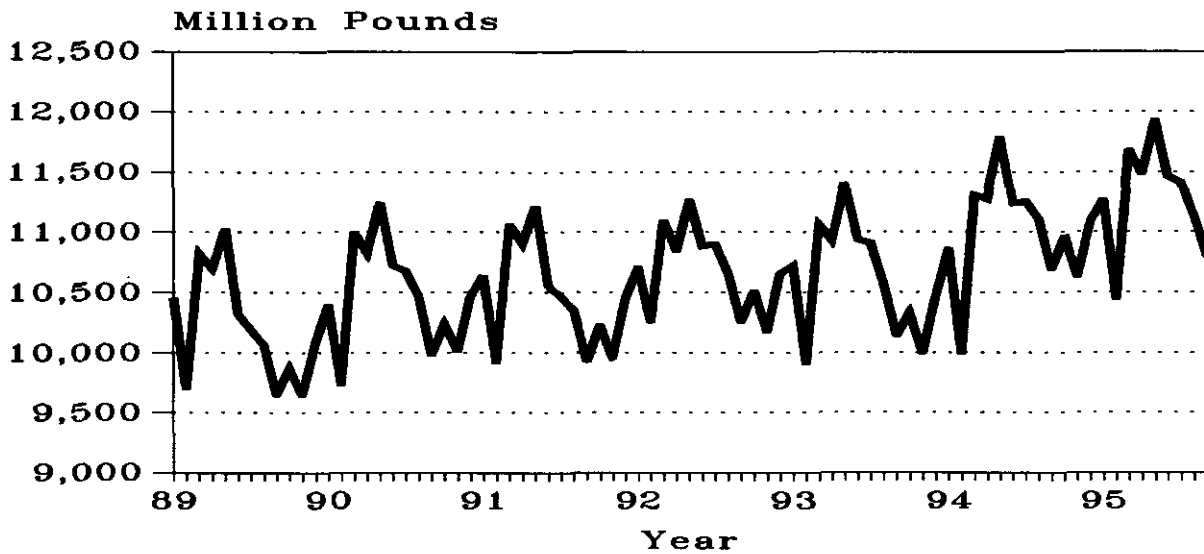
2/ Excludes milk sucked by calves.

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

State	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
CA	1,241	1,256	1,685	1,675	2,091	2,102	101
FL	175	162	1,010	1,000	177	162	92
ID	215	239	1,520	1,500	327	359	110
IL	164	162	1,270	1,260	208	204	98
IN	145	143	1,250	1,250	181	179	99
IA	266	262	1,230	1,250	327	328	100
KY	167	162	980	1,010	164	164	100
MD	91	93	1,130	1,110	103	103	100
MI	327	327	1,380	1,385	451	453	100
MN	605	600	1,190	1,225	720	735	102
MO	196	189	1,100	1,065	216	201	93
NM	172	199	1,599	1,525	275	303	110
NY	715	702	1,285	1,340	919	941	102
NC	90	86	1,245	1,220	112	105	94
OH	292	287	1,260	1,270	368	364	99
PA	641	646	1,260	1,330	808	859	106
TN	159	153	1,000	1,030	159	158	99
TX	402	401	1,145	1,105	460	443	96
VT	157	158	1,265	1,315	199	208	105
VA	129	129	1,220	1,195	157	154	98
WA	262	268	1,650	1,620	432	434	100
WI	1,498	1,489	1,225	1,235	1,835	1,839	100
22 State Total	8,109	8,113	1,318	1,331	10,689	10,798	101

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

## Milk Production, 1989-1995 22 States

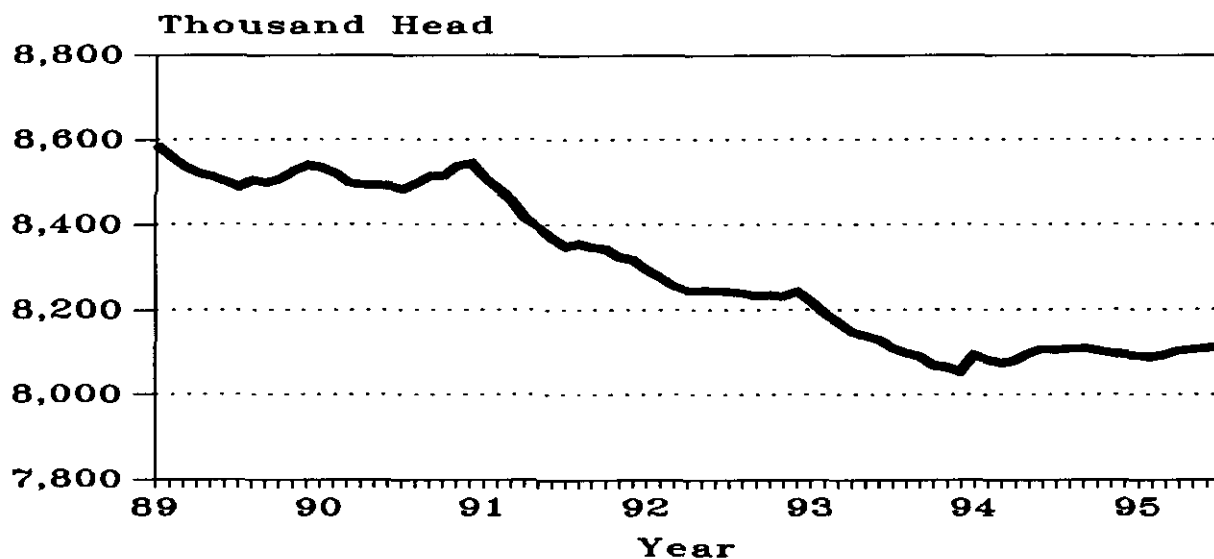


Milk Cows and Production: By State, August 1994-95 1/

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	1,239	1,255	1,730	1,715	2,143	2,152	100
FL	176	162	1,075	1,060	189	172	91
ID	213	237	1,590	1,580	339	374	110
IL	164	162	1,300	1,270	213	206	97
IN	145	143	1,330	1,300	193	186	96
IA	265	262	1,270	1,285	337	337	100
KY	167	162	1,000	1,025	167	166	99
MD	91	94	1,165	1,140	106	107	101
MI	327	326	1,460	1,440	477	469	98
MN	605	600	1,255	1,270	759	762	100
MO	196	188	1,120	1,095	220	206	94
NM	171	198	1,667	1,545	285	306	107
NY	716	700	1,325	1,390	949	973	103
NC	90	86	1,265	1,245	114	107	94
OH	294	288	1,255	1,250	369	360	98
PA	641	643	1,310	1,345	840	865	103
TN	157	154	1,030	1,050	162	162	100
TX	402	402	1,190	1,115	478	448	94
VT	157	158	1,300	1,360	204	215	105
VA	129	129	1,210	1,195	156	154	99
WA	263	270	1,720	1,720	452	464	103
WI	1,500	1,490	1,300	1,300	1,950	1,937	99
22 State Total	8,108	8,109	1,369	1,372	11,102	11,128	100

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

## All Milk Cows, 1989-1995 22 States



Milk Cows and Production: By State and United States  
Revised April-June 1994-1995

State	Apr-Jun Milk Cows 1/		Apr-Jun Milk Production 2/		1995 as % of 1994
	1994	1995	1994	1995	
	---- 1,000 ----		-- Million Pounds --		Percent
AL	36	34	133	130	98
AK	0.7	0.7	3.44	2.98	87
AZ	120	115	569	596	105
AR	61	61	201	195	97
CA	1,232	1,254	6,393	6,419	100
CO	81	83	400	397	99
CT	33	31	139	134	96
DE	10	10.5	37.6	40.0	106
FL	178	163	725	633	87
GA	102	101	426	417	98
HI	10.9	10.6	37.4	39.5	106
ID	205	229	945	1,046	111
IL	165	163	659	666	101
IN	145	144	578	575	99
IA	264	262	996	1,038	104
KS	77	81	280	300	107
KY	169	163	515	540	105
LA	80	80	250	244	98
ME	40	39	165	165	100
MD	92	93	342	353	103
MA	30	29	118	116	98
MI	328	326	1,440	1,444	100
MN	610	597	2,476	2,485	100
MS	57	56	198	195	98
MO	198	193	720	729	101
MT	21	21	77	83	108
NE	77	76	279	280	100
NV	23	23	108	106	98
NH	20	20	82	84	102
NJ	24	23	90	94	104
NM	164	190	855	929	109
NY	721	704	3,008	3,019	100
NC	91	87	387	376	97
ND	69	63	228	211	93
OH	296	288	1,150	1,178	102
OK	100	98	330	343	104
OR	100	99	443	435	98
PA	637	639	2,645	2,741	104
RI	2.2	2.2	8.2	8.5	104
SC	28	27	106	104	98
SD	118	118	418	422	101
TN	158	156	507	520	103
TX	403	401	1,672	1,617	97
UT	86	88	368	378	103
VT	157	156	630	650	103
VA	130	129	481	506	105
WA	261	267	1,335	1,371	103
WV	22	22	68	70	103
WI	1,490	1,494	5,871	6,039	103
WY	7.1	6.1	23.4	20.4	87
US 3/	9,530	9,516	39,916	40,484	101

1/ Includes dry cows, excludes heifers not yet fresh.  
2/ Excludes milk sucked by calves.  
3/ Milk cows will not add due to rounding.

Milk Cows and Production: By State and United States  
Preliminary July-September 1994-95

State	Jul-Sep Milk Cows 1/		Jul-Sep Milk Production 2/		1995 as % of 1994
	1994	1995	1994	1995	
	---- 1,000 ----		-- Million Pounds --		Percent
AL	36	33	102	101	99
AK	0.7	0.7	3.29	3.05	93
AZ	118	114	472	484	103
AR	61	61	183	183	100
CA	1,239	1,255	6,393	6,417	100
CO	82	83	405	392	97
CT	33	31	129	126	98
DE	10	10.5	32.6	32.6	100
FL	176	162	569	518	91
GA	102	99	348	327	94
HI	10.5	10.2	33.3	35.1	105
ID	213	237	1,006	1,103	110
IL	164	162	636	625	98
IN	145	143	568	552	97
IA	265	262	999	1,007	101
KS	79	82	275	275	100
KY	167	162	493	498	101
LA	79	79	197	192	97
ME	40	40	161	163	101
MD	91	94	314	319	102
MA	28	29	109	113	104
MI	327	327	1,410	1,409	100
MN	605	600	2,269	2,292	101
MS	57	55	156	158	101
MO	197	188	657	631	96
MT	21	21	79	82	104
NE	76	77	281	279	99
NV	23	23	106	106	100
NH	19	20	74	80	108
NJ	24	23	81	80	99
NM	171	198	848	923	109
NY	715	701	2,837	2,901	102
NC	90	86	343	326	95
ND	68	63	222	209	94
OH	293	288	1,116	1,107	99
OK	98	96	309	326	106
OR	100	98	440	427	97
PA	641	643	2,499	2,604	104
RI	2.1	2.1	7.7	7.9	103
SC	28	27	90	94	104
SD	119	118	403	404	100
TN	157	154	480	483	101
TX	402	402	1,426	1,369	96
UT	88	88	377	380	101
VT	157	158	608	638	105
VA	129	129	464	464	100
WA	262	269	1,336	1,362	102
WV	22	21	67	66	99
WI	1,499	1,490	5,780	5,790	100
WY	7.2	5.9	23.2	21	91
U S 3/	9,539	9,520	38,217	38,485	101

1/ Includes dry cows, excludes heifers not yet fresh.  
2/ Excludes milk sucked by calves.  
3/ Milk cows will not add due to rounding.

Grain and Other Concentrates: Quantity Fed Daily and Value  
By State and United States, October 1, 1994-95

State	Grain and Other Concentrates : Fed Daily per Milk Cow		Value per 100 Pounds of Concentrate : Ration Fed to Milk Cows	
	1994	1995	1994	1995
	----- Pounds -----		----- Dollars -----	
AL	17.6	18.6	8.10	8.40
AK	19.5	19.5	13.80	13.80
AZ	23.3	21.6	7.10	7.80
AR	17.4	17.5	8.10	8.20
CA	21.9	20.5	7.80	8.00
CO	22.0	22.5	7.20	7.20
CT	16.0	17.0	8.90	9.10
DE	16.8	16.3	9.10	8.80
FL	25.0	24.0	7.20	7.80
GA	21.1	22.9	7.80	7.90
ID	21.0	21.0	6.60	7.30
IL	18.3	17.1	7.80	7.90
IN	25.5	17.0	8.80	7.60
IA	17.0	16.4	7.50	6.50
KS	18.2	19.0	7.10	7.50
KY	16.6	16.4	8.70	8.65
LA	18.0	19.0	8.25	8.35
ME	16.0	17.0	9.10	8.90
MD	15.9	14.4	9.00	8.35
MA	15.0	15.5	9.00	8.95
MI	16.2	18.5	7.15	7.30
MN	16.4	17.3	7.10	7.80
MS	15.6	17.4	8.30	8.20
MO	17.7	18.5	7.65	8.00
MT	17.3	16.2	7.30	7.25
NE	17.2	16.5	7.70	7.30
NV	21.0	21.0	8.40	8.20
NH	15.5	16.0	8.50	8.80
NJ	14.1	14.9	8.80	8.60
NM	26.0	26.0	6.60	6.60
NY	14.6	15.3	9.10	9.00
NC	17.8	17.5	8.55	8.95
ND	16.1	16.5	5.60	6.30
OH	18.3	16.3	8.30	8.10
OK	20.0	18.0	7.90	8.40
OR	19.0	20.0	9.25	9.30
PA	16.5	16.0	9.10	9.80
RI	15.0	16.0	8.70	9.05
SC	18.5	20.0	7.90	8.00
SD	16.4	17.0	6.55	6.75
TN	17.0	16.0	9.00	9.00
TX	23.4	22.2	7.40	7.90
UT	17.3	16.9	7.10	7.70
VT	15.0	16.0	8.80	8.90
VA	16.0	16.0	8.98	8.90
WA	22.5	20.0	7.80	8.20
WV	14.2	14.0	8.90	9.05
WI	16.6	17.1	7.60	7.20
WY	13.3	13.0	6.35	6.50
US	18.7	18.4	7.87	7.97

**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 1.3 percent. This means that chances are 2 out of 3 that the final July-September estimate will not be above or below the current estimate of 9.52 million head by more than 1.3 percent, or about 124,000 head. Chances are 9 out of 10 that the difference will not exceed 2.3 percent, or about 219,000 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 1/			Number of Quarters			
			Average	Smallest	Largest	Above Final	Below Final		
	- Percent -		----- Mil Lbs. -----			- Number -			
Milk Production	0.9	1.6	616	270	15	538	10	0	
			----- 1,000 Head -----						
All Milk Cows	1.3	2.3	219	113	15	179	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 November 16, 1995.

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