

# Milk Production



National  
Agricultural  
Statistics  
Service

United States  
Department of  
Agriculture

Washington, D.C.

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Released October 16, 1992, by the Agricultural Statistics Board.

## September Milk Production up 4 Percent

Milk production in the 21 major States during September totaled 10.3 billion pounds, up 4 percent from production in these same States in September 1991. August revised production, at 10.8 billion pounds was up 4 percent from August 1991.

Production per cow in the 21 major States averaged 1,248 pounds for September, 59 pounds above September 1991.

The number of cows on farms in the 21 major States was 8.26 million head, 92 thousand below September 1991 and 7 thousand below August 1992.

During the July-September period, the 21 major States produced 32.0 billion pounds of milk, 84.9 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 July, 12.7 billion pounds for August, and 12.1 billion for September.

## July-September Milk Production up 4 percent

The quarterly production of milk for the U.S. was 37.7 billion pounds, 4 percent above the July-September period last year. The average number of milk cows in the U.S. during the July-September quarter was 9.85 million head, 94 thousand less than the same period last year.

## Grain and Other Concentrates Fed

Grain and other concentrates fed to milk cows on October 1 1992, averaged 17.4 pounds per cow, 1 tenth of a pound more than on October 1, 1991.

## Value of Grain and Other Concentrates

The value of grain and other concentrates fed to cows on October 1, averaged \$7.65 per hundredweight, \$0.15 less than the October 1, 1991 price.

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

Milk Cows and Production: By Quarter, United States, 1991-92

Month	Milk Cows <u>1/</u>		Milk per Cow <u>2/</u>		Milk Production <u>2/</u>		
	1991	1992	1991	1992	1991	1992	1992 as % of 1991
	---- 1,000 ----		---- Pounds ----		Million Pounds		Percent
Jan-Mar	10,101	9,858	3,705	3,850	37,425	37,958	101
Apr-Jun	9,999	9,743	3,864	4,010	38,633	39,067	101
Jul-Sep	9,940	9,846	3,647	3,829	36,255	37,704	104
Oct-Dec	9,918		3,651		36,212		
Annual	9,990		14,867		148,526		

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

2/ Excludes milk sucked by calves.

Milk Cows and Production: By States, August 1991-92 1/

State	Milk Cows <u>2/</u>		Milk per Cow <u>3/</u>		Milk Production <u>3/</u>		
	1991	1992	1991	1992	1991	1992	1992 as % of 1991
	---- 1,000 ----		---- Pounds ----		Million Pounds		Percent
CA	1,156	1,157	1,605	1,610	1,855	1,863	100
FL	178	180	990	1,020	176	184	105
ID	178	186	1,480	1,520	263	283	108
IL	191	185	1,230	1,330	235	246	105
IN	146	146	1,270	1,320	186	193	104
IA	305	306	1,110	1,160	339	355	105
KY	193	184	905	940	175	173	99
MD	101	99	1,130	1,170	114	116	102
MI	340	340	1,310	1,360	445	462	104
MN	680	655	1,115	1,205	758	789	104
MO	225	229	1,015	1,070	228	245	107
NY	753	750	1,210	1,280	911	960	105
NC	97	96	1,190	1,200	115	115	100
OH	336	328	1,160	1,240	390	407	104
PA	664	650	1,230	1,310	817	852	104
TN	194	190	930	970	180	184	102
TX	377	376	1,065	1,145	402	431	107
VT	165	164	1,200	1,270	198	208	105
VA	139	136	1,175	1,200	163	163	100
WA	237	249	1,620	1,655	384	412	107
WI	1,703	1,659	1,185	1,275	2,018	2,115	105
21 State:							
Total	8,358	8,265	1,239	1,301	10,352	10,756	104

1/ 1991 and 1992 revised.

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

3/ Excludes milk sucked by calves.

Milk Cows and Production: By Months, 21 Selected States, 1991-92

Month	Milk Cows <sup>1/</sup>		Milk per Cow <sup>2/</sup>		Milk Production <sup>2/</sup>		
	1991	1992	1991	1992	1991	1992	1992 as % of 1991
	----- 1,000 -----		---- Pounds ----		Million Pounds		Percent
Jan	8,510	8,296	1,251	1,288	10,645	10,684	100
Feb	8,484	8,273	1,169	1,237	9,922	10,230	103
Mar	8,460	8,262	1,310	1,343	11,084	11,092	100
Apr	8,416	8,254	1,297	1,316	10,918	10,866	100
May	8,396	8,262	1,339	1,363	11,240	11,258	100
Jun	8,372	8,260	1,262	1,316	10,567	10,868	103
Jul	8,353	8,259	1,254	1,324	10,472	10,939	104
Aug	8,358	8,265	1,239	1,301	10,352	10,756	104
Sep	8,350	8,258	1,189	1,248	9,927	10,310	104
Oct	8,346		1,224		10,212		
Nov	8,329		1,192		9,926		
Dec	8,322		1,252		10,418		
Annual	8,392		14,977		125,683		

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

Milk Cows and Production: By States, September 1991-92

State	Milk Cows <sup>1/</sup>		Milk per Cow <sup>2/</sup>		Milk Production <sup>2/</sup>		
	1991	1992	1991	1992	1991	1992	1992 as % of 1991
	----- 1,000 -----		---- Pounds ----		Million Pounds		Percent
CA	1,156	1,157	1,510	1,550	1,746	1,793	103
FL	176	180	940	970	165	175	106
ID	178	186	1,400	1,430	249	266	107
IL	188	183	1,190	1,280	224	234	104
IN	145	144	1,290	1,280	177	184	104
IA	303	306	1,110	1,150	336	352	105
KY	192	184	875	940	168	173	103
MD	103	100	1,060	1,130	109	113	104
MI	340	340	1,265	1,300	430	442	103
MN	680	655	1,070	1,145	728	750	103
MO	224	230	970	1,030	217	237	109
NY	755	755	1,170	1,230	883	929	105
NC	97	97	1,195	1,200	116	116	100
OH	336	325	1,095	1,230	368	400	109
PA	670	648	1,200	1,250	804	810	101
TN	195	188	920	970	179	182	102
TX	375	376	1,040	1,125	390	423	108
VT	165	164	1,170	1,250	193	205	106
VA	139	136	1,145	1,170	159	159	100
WA	236	249	1,560	1,600	368	398	108
WI	1,697	1,655	1,130	1,190	1,918	1,969	103
21 State Total	8,350	8,258	1,189	1,248	9,927	10,310	104

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

Milk Cows and Production: By State and United States,  
Revised April-June 1991-92

State	Apr-Jun Milk Cows 1/		Apr-Jun Milk Production 2/		1992 as % of 1991
	1991	1992	1991	1992	
	----- 1,000 -----		----- Million Pounds -----		Percent
AL	41	40	137	129	94
AK	1.0	0.7	3.71	3.21	87
AZ	94	98	442	463	105
AR	68	66	211	209	99
CA	1,155	1,157	5,509	5,600	102
CO	78	80	345	360	104
CT	33	34	134	140	104
DE	9.2	9.1	33.4	34.1	102
FL	180	182	663	686	103
GA	108	101	372	392	105
HI	10.9	10.9	37.8	40.0	106
ID	177	182	747	793	106
IL	192	186	725	666	92
IN	149	144	606	593	98
IA	303	307	1,048	1,058	101
KS	98	90	315	320	102
KY	196	182	580	542	93
LA	80	80	245	252	103
ME	42	41	159	165	104
MD	103	98	364	354	97
MA	31	30	120	123	103
MI	343	338	1,343	1,364	102
MN	685	660	2,587	2,555	99
MS	62	59	197	199	101
MO	228	227	767	790	103
MT	24	24	87	88	101
NE	100	97	325	329	101
NV	19.0	19.0	88.0	81.3	92
NH	20	21	80	86	108
NJ	25	25	91	91	100
NM	94	0	493	550	112
NY	752	743	2,902	3,012	104
NC	99	97	393	375	95
ND	84	79	275	261	95
OH	337	330	1,236	1,230	100
OK	98	98	308	319	104
OR	100	104	430	451	105
PA	662	652	2,597	2,688	104
RI	2.3	2.3	9	9	100
SC	32	30	102	98	96
SD	137	131	444	440	99
TN	193	196	575	579	101
TX	383	376	1,442	1,449	100
UT	80	83	325	345	106
VT	163	163	622	647	104
VA	139	137	522	514	98
WA	236	245	1,137	1,228	108
WV	23	23	69	70	101
WI	1,722	1,656	6,363	6,269	99
WY	8.6	7.9	27.5	27.5	100
US 3/	9,999	9,743	38,633	39,067	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 1991-92

State	Jul-Sep Milk Cows <u>1/</u>		Jul-Sep Milk Production <u>2/</u>		1992 as % of 1991
	1991	1992	1991	1992	
	----- 1,000 -----		---- Million Pounds ----		Percent
AL	40	40	107	105	98
AK	0.9	0.7	3.11	3.28	105
AZ	93	99	385	393	102
AR	68	65	198	192	97
CA	1,156	1,157	5,445	5,553	102
CO	77	79	333	357	107
CT	33	34	127	134	106
DE	9.2	9.5	29.4	31.4	107
FL	177	180	528	551	104
GA	104	102	302	330	109
HI	10.8	11.0	34.8	35.1	101
ID	178	186	775	835	108
IL	190	184	691	724	105
IN	145	145	546	573	105
IA	304	306	1,020	1,066	105
KS	97	88	295	300	102
KY	193	183	517	514	99
LA	79	79	200	209	105
ME	42	41	156	165	106
MD	102	99	336	343	102
MA	30	30	112	118	105
MI	340	340	1,327	1,377	104
MN	680	657	2,271	2,374	105
MS	60	59	159	170	107
MO	225	229	678	729	108
MT	24	24	87	86	99
NE	99	97	320	327	102
NV	19.0	19.0	87.0	81.7	94
NH	20	21	77	81	105
NJ	25	25	81	91	112
NM	95	111	500	551	110
NY	751	751	2,715	2,868	106
NC	97	96	347	344	99
ND	81	77	255	246	96
OH	336	328	1,151	1,216	106
OK	99	95	304	299	98
OR	100	104	429	442	103
PA	664	648	2,444	2,521	103
RI	2.2	2.3	8.1	8.1	100
SC	31	29	87	87	100
SD	136	130	409	420	103
TN	194	189	539	548	102
TX	377	376	1,211	1,294	107
UT	80	83	327	342	105
VT	164	164	589	626	106
VA	139	136	482	480	100
WA	237	248	1,141	1,232	108
WV	23	23	67	69	103
WI	1,703	1,657	5,995	6,237	104
WY	8.6	7.7	27.5	25.8	94
US <u>3/</u>	9,940	9,846	36,255	37,704	104

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, 1991-92

State	: Grain and other concentrates : Value per 100 Pounds of Concentrate		: Fed Daily per Milk Cow : Ration Fed to Milk Cows	
	1991	1992	1991	1992
	----- Pounds -----		----- Dollars -----	
AL	17.1	17.3	8.30	8.20
AK	18.0	19.0	13.00	13.00
AZ	21.0	21.8	7.25	7.10
AR	17.1	17.6	7.80	7.85
CA	19.4	19.5	7.54	7.35
CO	21.5	24.0	7.25	6.60
CT	15.1	17.1	8.50	8.70
DE	17.7	15.2	7.70	7.86
FL	28.0	25.0	7.25	6.70
GA	21.2	20.6	7.85	7.85
ID	17.7	21.0	6.40	6.50
IL	16.2	16.7	8.10	7.20
IN	16.6	17.0	7.50	7.19
IA	15.6	16.1	7.90	7.55
KS	21.0	19.2	7.55	7.45
KY	15.4	15.5	8.50	8.55
LA	16.5	17.0	8.20	8.30
ME	15.4	16.2	8.80	8.90
MD	15.1	15.3	8.60	8.55
MA	14.7	15.2	8.70	8.90
MI	16.5	16.4	7.00	6.90
MN	16.3	16.9	7.20	7.30
MS	15.9	16.4	8.20	8.10
MO	17.5	17.0	7.40	7.35
MT	16.0	16.5	7.00	7.15
NE	15.6	16.1	6.90	7.00
NV	20.0	19.0	7.80	7.50
NH	15.4	15.3	8.80	8.80
NJ	14.3	14.0	9.00	9.15
NM	23.0	25.0	6.50	6.10
NY	15.1	14.9	8.90	8.90
NC	17.0	17.7	8.95	8.50
ND	14.0	15.9	5.10	5.10
OH	15.4	16.3	8.30	7.90
OK	18.0	17.9	7.30	7.45
OR	17.2	18.0	9.00	8.55
PA	14.8	14.2	9.21	8.90
RI	15.2	15.4	8.50	8.90
SC	17.0	18.0	8.10	8.10
SD	15.0	15.0	6.10	6.20
TN	15.0	15.0	9.00	9.00
TX	21.1	21.4	7.50	7.40
UT	18.4	17.5	6.70	7.00
VT	14.8	14.2	8.90	8.70
VA	15.5	16.1	8.80	9.20
WA	19.4	19.5	7.85	7.70
WV	13.8	14.0	8.70	8.90
WI	16.2	16.4	7.45	7.30
WY	10.7	12.2	6.00	6.25
US	17.3	17.4	7.80	7.65

**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 larger producers and a sample of smaller 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, January 1, February 1, etc. Toward the end of the data collection period, statisticians review mail returns to ensure that each size group is adequately represented. If additional reports are needed in some size groups, statisticians obtain these by telephone.

**Estimation Procedures:** Each state statistician prepares their estimate by plotting survey estimates and averages on time series charts. The 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 reason for revisions, however, not all orders have data available in time for this revision. A second revision is made in February each year based on additional administrative data. In the event that some additional changes are necessary, a third revision is made in February the following year. Estimates are again reviewed after data for the five-year Census of Agriculture, conducted by the Department of Commerce are available.

**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, 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 9.84 million head by more than 0.6 percent, or about 59,000 head. Chances are 9 out of 10 that the difference will not exceed 1.0 percent, or about 98,000 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	1.2	452	-158	0	-538	1	8
			----- 1,000 Head -----					
All Milk Cows	0.6	1.0	98.5	-43	0	-135	0	9

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

The next "Milk Production" report will be released on November 16, 1992 at 3:00 p.m. ET.



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