

Milk Production



National
Agricultural
Statistics
Service

United States
Department of
Agriculture

Washington, D.C.

Released January 17, 1995, by the Agricultural Statistics Board.

December Milk Production Up 3 Percent

Milk production in the 21 major States during December totaled 10.8 billion pounds, 3 percent above production in these same States in December 1993. November revised production, at 10.4 billion pounds, was 4 percent more than November 1993.

Production per cow in the 21 major States averaged 1,355 pounds for December, 56 pounds above December 1993.

The number of cows on farms in the 21 major States was 7.99 million head, 63,000 head less than December 1993 and 9,000 head less than November 1994.

During the October-December period, the 21 major States produced 31.9 billion pounds of milk, 83.9 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 12.8 billion pounds for October, 12.4 billion pounds for November, and 12.9 billion pounds for December 1994.

October-December Milk Production Up 4 Percent

The quarterly production of milk for the U.S. was 38.1 billion pounds, 4 percent above the October-December period in 1993. The average number of milk cows in the U.S. during the October-December quarter was 9.60 million head 43,000 less than the same period a year earlier.

Grain and Other Concentrates Fed

Grain and other concentrates fed to milk cows on January 1, 1995, averaged 18.9 pounds per cow, 0.4 pound more than January 1, 1994.

Value of Grain and Other Concentrates

The value of grain and other concentrates fed to cows on January 1, averaged \$7.66 per hundredweight, \$0.52 less than January 1, 1994.

For information call Doyle Fuchs at (202) 720-4447. 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>		
	1993	1994	1993	1994	1993	1994	1994 as % of 1993
	---- 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	9,642	3,862	3,979	37,364	38,365	103
Oct-Dec	9,644	9,601	3,792	3,964	36,571	38,063	104
Annual	9,705	9,624	15,554	16,010	150,954	154,093	102

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>		
	1993	1994	1993	1994	1993	1994	1994 as % of 1993
	---- 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	8,038	1,253	1,303	10,138	10,471	103
Oct	8,069	8,010	1,280	1,337	10,331	10,707	104
Nov	8,065	8,000	1,239	1,298	9,994	10,383	104
Dec	8,054	7,991	1,299	1,355	10,461	10,826	103
Annual	8,124	8,020	15,680	16,112	127,383	129,219	101

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

2/ Excludes milk sucked by calves.

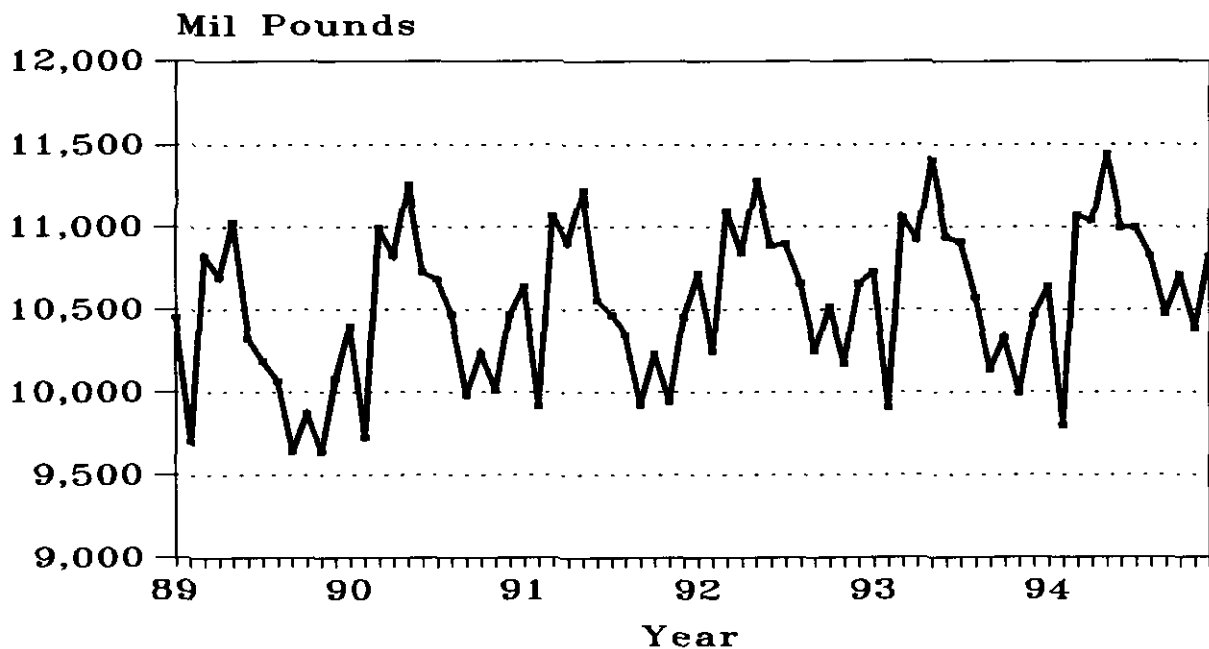
Milk Cows and Production: By State, December 1993-94

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	1,190	1,225	1,635	1,725	1,946	2,113	109
FL	177	170	1,275	1,330	226	226	100
ID	193	220	1,440	1,490	278	328	118
IL	175	176	1,170	1,280	205	225	110
IN	145	145	1,280	1,300	186	189	102
IA	290	280	1,130	1,190	328	333	102
KY	175	165	980	1,055	172	174	101
MD	96	91	1,240	1,275	119	116	97
MI	338	333	1,340	1,410	453	470	104
MN	635	600	1,230	1,275	781	765	98
MO	218	215	1,020	1,060	222	228	103
NY	751	730	1,255	1,300	943	949	101
NC	91	89	1,390	1,420	126	126	100
OH	302	291	1,255	1,330	379	387	102
PA	654	649	1,295	1,340	847	870	103
TN	178	165	1,000	1,060	178	175	98
TX	390	400	1,300	1,305	507	522	103
VT	161	156	1,285	1,315	207	205	99
VA	130	129	1,290	1,265	168	163	97
WA	257	263	1,600	1,645	411	433	105
WI	1,508	1,499	1,180	1,220	1,779	1,829	103
21 State Total	8,054	7,991	1,299	1,355	10,461	10,826	103

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

2/ Excludes milk sucked by calves.

Milk Production, 1989-1994 21 States

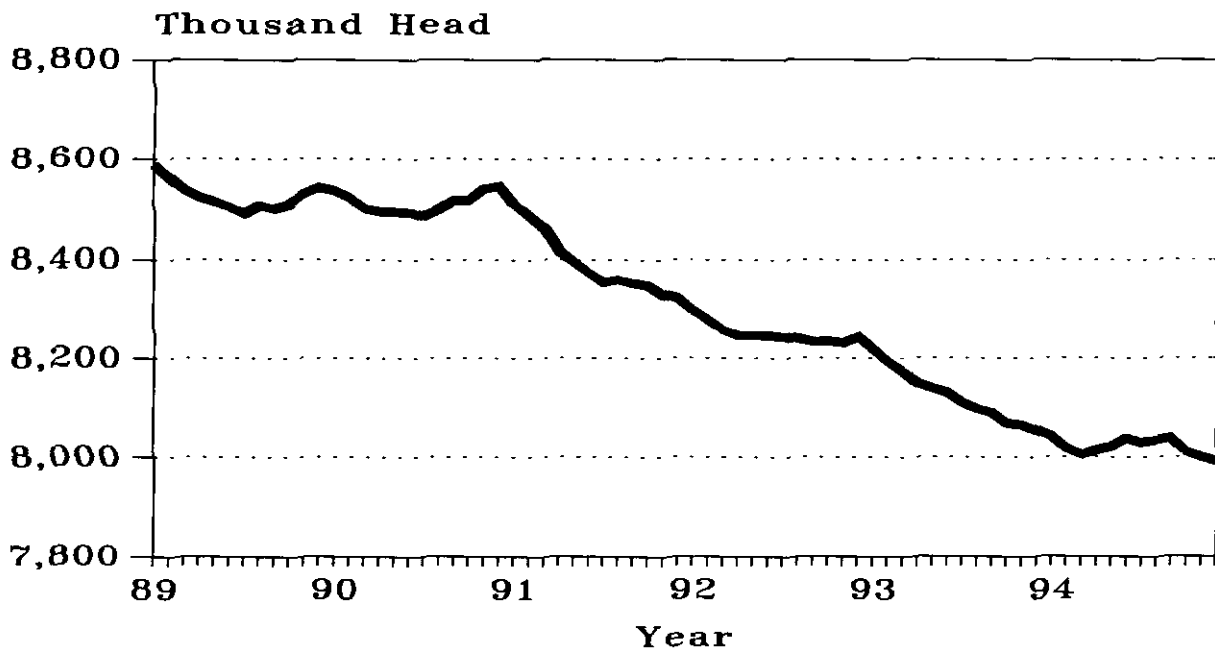


Milk Cows and Production: By State, November 1993-94 ^{1/}

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	1,188	1,225	1,590	1,680	1,889	2,058	109
FL	177	173	1,090	1,140	193	197	102
ID	193	217	1,400	1,470	270	319	118
IL	175	176	1,130	1,250	198	220	111
IN	145	145	1,220	1,240	177	180	102
IA	292	282	1,110	1,170	324	330	102
KY	176	165	920	995	162	164	101
MD	96	91	1,210	1,230	116	112	97
MI	338	334	1,270	1,325	429	443	103
MN	640	605	1,140	1,185	730	717	98
MO	220	215	970	1,020	213	219	103
NY	753	730	1,180	1,225	889	894	101
NC	92	90	1,310	1,335	121	120	99
OH	302	293	1,225	1,290	370	378	102
PA	650	651	1,250	1,285	813	837	103
TN	180	164	980	1,050	176	172	98
TX	386	399	1,210	1,215	467	485	104
VT	162	156	1,210	1,250	196	195	99
VA	131	129	1,235	1,240	162	160	99
WA	257	263	1,550	1,585	398	417	105
WI	1,512	1,497	1,125	1,180	1,701	1,766	104
21 State:							
Total	8,065	8,000	1,239	1,298	9,994	10,383	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



Milk Cows and Production: By State and United States
Revised July-September, 1993-94

State	Jul-Sep Milk Cows <u>1/</u>		Jul-Sep Milk Production <u>2/</u>		1994 as % of 1993
	1993	1994	1993	1994	
	----- 1,000 -----		-- Million Pounds --		Percent
AL	38	36	110	102	93
AK	0.7	0.7	3.13	3.29	105
AZ	104	118	435	472	109
AR	62	61	186	183	98
CA	1,182	1,220	5,900	6,387	108
CO	81	82	373	405	109
CT	33	33	127	129	102
DE	10.0	10.0	34.3	37.5	109
FL	179	176	560	569	102
GA	100	102	334	348	104
HI	10.9	10.5	34.3	33.5	98
ID	192	211	851	995	117
IL	176	175	659	668	101
IN	145	145	562	568	101
IA	294	287	1,014	1,002	99
KS	80	79	260	275	106
KY	177	167	515	493	96
LA	78	79	195	200	103
ME	41	40	167	161	96
MD	97	92	330	332	101
MA	30	28	118	109	92
MI	339	335	1,370	1,387	101
MN	647	620	2,320	2,270	98
MS	58	57	160	157	98
MO	223	219	682	658	96
MT	22	21	78	80	103
NE	90	79	283	283	100
NV	20.0	22.0	89.0	101.2	114
NH	20	19	78	74	95
NJ	25	24	88	91	103
NM	139	171	679	848	125
NY	748	733	2,846	2,829	99
NC	94	90	340	343	101
ND	70	68	235	222	94
OH	303	297	1,136	1,129	99
OK	98	99	309	317	103
OR	100	100	434	455	105
PA	650	651	2,510	2,496	99
RI	2.2	2.1	8	7.7	96
SC	28	28	82	92	112
SD	124	120	408	410	100
TN	182	163	520	509	98
TX	386	399	1,386	1,426	103
UT	81	88	338	377	112
VT	161	159	618	595	96
VA	131	129	472	459	97
WA	260	263	1,276	1,334	105
WV	23	23	68	70	103
WI	1,535	1,504	5,757	5,848	102
WY	7.3	7.2	25.8	25.3	98
US <u>3/</u>	9,675	9,642	37,364	38,365	103

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 October-December, 1993-94

State	Oct-Dec Milk Cows ^{1/}		Oct-Dec Milk Production ^{2/}		1994 as % of 1993
	1993	1994	1993	1994	
	----- 1,000 -----		-- Million Pounds --		Percent
AL	38	37	127	123	97
AK	0.7	0.7	2.88	2.85	99
AZ	105	114	492	534	109
AR	62	61	183	177	97
CA	1,188	1,225	5,794	6,315	109
CO	80	82	356	394	111
CT	33	32	127	129	102
DE	10.0	10.0	34.8	35.0	101
FL	177	172	608	611	100
GA	102	102	380	390	103
HI	10.9	10.5	32.3	32.9	102
ID	193	218	830	983	118
IL	175	176	611	665	109
IN	145	145	546	552	101
IA	292	281	986	996	101
KS	77	81	255	285	112
KY	176	165	503	506	101
LA	78	79	217	217	100
ME	40	39	160	155	97
MD	96	91	347	343	99
MA	30	28	115	109	95
MI	338	334	1,325	1,374	104
MN	638	605	2,253	2,223	99
MS	58	57	171	173	101
MO	219	215	653	672	103
MT	22	21	74	80	108
NE	90	78	267	276	103
NV	20.0	23.0	88.0	101.2	115
NH	20	19	77	75	97
NJ	24	24	83	91	110
NM	147	171	687	849	124
NY	751	730	2,755	2,771	101
NC	92	90	367	365	99
ND	69	66	214	208	97
OH	302	292	1,128	1,146	102
OK	100	98	320	316	99
OR	100	100	415	440	106
PA	652	650	2,498	2,554	102
RI	2.3	2.1	7.7	7.7	100
SC	28	28	92	101	110
SD	124	120	387	391	101
TN	180	164	530	516	97
TX	387	399	1,449	1,496	103
UT	80	89	326	362	111
VT	162	156	606	601	99
VA	131	129	494	484	98
WA	257	263	1,228	1,288	105
WV	23	22	70	69	99
WI	1,512	1,499	5,275	5,455	103
WY	7.1	6.8	24.1	23.5	98
US ^{3/}	9,644	9,601	36,571	38,063	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.

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Grain and Other Concentrates: Quantity Fed Daily and Value
By State and United States, January 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	17.4	18.7	9.10	8.40
AK	19.0	19.5	13.50	13.80
AZ	21.8	23.5	7.55	7.35
AR	17.9	18.4	8.35	7.90
CA	21.0	21.2	7.75	8.00
CO	22.0	22.5	7.00	6.70
CT	18.0	17.0	8.50	8.45
DE	15.8	16.1	8.40	9.00
FL	30.0	24.0	7.30	7.10
GA	22.6	24.0	8.20	7.60
ID	20.0	21.0	6.60	6.70
IL	18.3	17.8	8.80	7.70
IN	16.8	18.5	8.05	7.50
IA	16.6	17.2	8.20	7.10
KS	19.0	19.3	7.55	7.70
KY	17.3	15.9	8.80	8.40
LA	18.0	17.0	8.65	8.15
ME	16.5	16.0	9.15	8.85
MD	15.3	15.8	8.90	8.40
MA	14.5	16.0	9.20	8.75
MI	16.5	17.5	6.50	6.95
MN	17.7	17.7	8.20	7.20
MS	18.2	17.1	8.55	8.35
MO	18.5	18.8	8.15	7.35
MT	18.3	18.0	7.70	7.05
NE	17.3	17.1	7.30	7.20
NV	20.0	21.0	8.30	8.00
NH	15.5	17.0	8.90	8.65
NJ	14.5	14.1	8.80	8.40
NM	25.0	26.0	6.60	6.40
NY	14.9	15.3	9.30	9.10
NC	18.4	19.0	9.15	8.90
ND	15.8	15.8	6.05	6.10
OH	17.0	18.0	8.50	8.30
OK	19.5	20.0	8.30	8.10
OR	18.5	19.0	9.00	8.90
PA	15.2	16.5	9.25	8.90
RI	15.5	15.0	8.50	8.75
SC	18.0	18.5	8.35	7.70
SD	16.9	16.7	6.85	6.35
TN	17.0	17.0	9.30	8.80
TX	23.3	24.1	8.10	7.50
UT	18.1	17.9	7.20	7.30
VT	15.0	16.0	9.00	8.70
VA	17.2	16.5	8.80	8.85
WA	21.0	22.5	8.20	8.20
WV	16.8	15.4	9.15	9.00
WI	18.0	17.7	8.10	6.50
WY	12.3	12.8	6.40	6.25
US	18.5	18.9	8.18	7.66

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 9.60 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 1.0 percent, or about 96,000 head (the 90 percent confidence level).

Reliability of October-December 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	457	172	7	565	9	1	
			----- 1,000 Head -----						
All Milk Cows	0.6	1.0	96	44	4	126	10	0	

1/ Based on records for the past 10 October-December quarters.

Statistical Bulletin Order Form

The U.S. Department of Agriculture's National Agricultural Statistics Service will publish a series of 18 Statistical Bulletins (SB895-SB912) containing final estimates for the 1987-1993 period. Data previously published during the 1987-1993 period have been reviewed against survey indications and administrative data such as those from exports, imports, slaughter, crushings, and the 1992 Census of Agriculture. These bulletins are a continuation of Statistical Bulletins (SB792-SB802) published in 1988 and 1989.

QUANTITY (\$10 each)		BULLETIN NUMBER	STATISTICAL BULLETIN	RELEASE DATE
PAPER	DISKETTES			
		SB-904	Hogs and Pigs, 1988-1992	12/16/94
		SB-896	Field Crops, 1987-1992	12/19/94
		SB-897	Stocks of Grains, Oilseeds, and Hay, 1988-1993	12/19/94
		SB-898	Rice Stocks, 1988-1993	12/19/94
		SB-902	Vegetables, 1987-1992	01/06/95
		SB-906	Sheep and Goats, 1989-1993	01/13/95
		SB-908	Chicken and Eggs, 1988-1993	01/18/95
		SB-905	Cattle, 1989-1993	01/20/95
		SB-909	Milk, 1988-1992	02/02/95
		SB-911	Turkeys, 1988-1993	03/23/95
		SB-912	Honey, 1986-1992	03/28/95
		SB-907	Meat Animals, PDI, 1988-1992	03/30/95
		SB-910	Poultry Production and Value, 1988-1993	05/12/95
		SB-900	Noncitrus Fruits and Nuts, 1987-1992	06/05/95
		SB-895	Farms and Land in Farms, 1987-1993	07/28/95
		SB-899	Citrus Fruits, 1987-1992	08/07/95
		SB-901	Potatoes and Sweetpotatoes, 1987-1992	08/17/95
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February 22 and 23, 1995 in Arlington, Virginia