

Milk Production



National
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Department of
Agriculture

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March Milk Production

Milk production in the 21 major States during March totaled 11.0 billion pounds, 1 percent less than production in these same States in March 1993. February revised production at 9.80 billion pounds was 1 percent below February 1993.

Production per cow in the 21 major States averaged 1,374 pounds for March, 21 pounds more than March 1993.

The number of cows on farms in the 21 major States was 8.00 million head, 175,000 head less than March 1993 and 20,000 less than February 1994.

During the January-March period, the 21 major States produced 31.4 billion pounds of milk, 83.7 percent of the U.S. production. If producers in the remaining 29 States not surveyed monthly followed the same pattern as the 21 States, the U.S. production would be 12.7 billion pounds for January, 11.7 billion pounds for February, and 13.1 billion pounds for March.

January-March Production Down Slightly

The quarterly production of milk for the U.S. was 37.5 billion pounds, slightly below the January-March period last year. The average number of milk cows in the U.S. during the January-March quarter was 9.61 million head, 168,000 less than the same period last year.

Grain and Other Concentrates Fed

Grain and other concentrates fed to milk cows on April 1, 1994, averaged 19.0 pounds per cow, 0.8 of a pound more than on April 1, 1993.

Value of Grain and Other Concentrates

The value of grain and other concentrates fed to cows on April 1, averaged \$8.23 per hundredweight, \$0.62 more than the price on April 1, 1993.

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

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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	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	7,998	1,353	1,374	11,060	10,988	99
Apr	8,148		1,341		10,927		
May	8,139		1,402		11,410		
Jun	8,130		1,346		10,940		
Jul	8,110		1,346		10,913		
Aug	8,098		1,306		10,573		
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, March 1993-94

State	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
CA	1,174	1,198	1,630	1,700	1,914	2,037	106
FL	179	177	1,385	1,410	248	250	101
ID	185	196	1,390	1,460	257	286	111
IL	178	174	1,280	1,270	228	221	97
IN	143	144	1,330	1,350	190	194	102
IA	298	287	1,170	1,170	349	336	96
KY	182	171	1,000	1,005	182	172	95
MD	100	93	1,230	1,320	123	123	100
MI	340	339	1,370	1,400	466	475	102
MN	655	630	1,345	1,310	881	825	94
MO	221	215	1,140	1,085	252	233	92
NY	748	742	1,315	1,330	984	987	100
NC	95	91	1,425	1,450	135	132	98
OH	308	301	1,310	1,280	403	385	96
PA	650	647	1,355	1,355	881	877	100
TN	190	171	940	1,100	179	188	105
TX	382	392	1,405	1,505	537	590	110
VT	163	160	1,325	1,320	216	211	98
VA	133	130	1,345	1,260	179	164	92
WA	254	257	1,660	1,685	422	433	103
WI	1,595	1,483	1,275	1,260	2,034	1,869	92
21 State:							
Total	8,173	7,998	1,353	1,374	11,060	10,988	99

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

2/ Excludes milk sucked by calves.

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

Quarter	Milk Cows ^{1/}		Milk per Cow ^{2/}		Milk Production ^{2/}		1994 as % of 1993
	1993	1994	1993	1994	1993	1994	
	---- 1,000 ----		Pounds		Million Pounds		Percent
Jan-Mar	9,773	9,605	3,848	3,907	37,608	37,531	100
Apr-Jun	9,727		4,052		39,411		
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 State, February 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	1,172	1,195	1,440	1,525	1,688	1,822	108
FL	179	176	1,265	1,290	226	227	100
ID	184	196	1,250	1,280	230	251	109
IL	180	175	1,180	1,160	212	203	96
IN	143	145	1,230	1,210	176	175	99
IA	298	287	1,130	1,075	337	309	92
KY	183	172	905	885	166	152	92
MD	100	95	1,140	1,270	114	111	97
MI	340	339	1,250	1,235	425	419	99
MN	660	635	1,200	1,160	792	737	93
MO	223	218	1,010	950	225	207	92
NY	748	744	1,165	1,170	871	870	100
NC	96	91	1,310	1,320	126	120	95
OH	310	302	1,175	1,200	364	362	99
PA	651	647	1,220	1,220	794	789	99
TN	190	173	870	980	165	170	103
TX	380	390	1,245	1,295	473	505	107
VT	164	160	1,175	1,175	193	188	97
VA	133	130	1,235	1,160	164	151	92
WA	252	256	1,490	1,505	375	385	103
WI	1,607	1,492	1,115	1,105	1,792	1,649	92
21 State: Total	8,193	8,018	1,209	1,222	9,908	9,802	99

^{1/} 1993 and 1994 revised.

^{2/} Includes dry cows. Excludes heifers not yet fresh.

^{3/} Excludes milk sucked by calves.

Milk Cows and Production: By State and United States
Revised October-December 1992-93

State	Oct-Dec Milk Cows <u>1/</u>		Oct-Dec Milk Production <u>2/</u>		1993 as % of 1992
	1992	1993	1992	1993	
	----- 1,000 -----		-- Million Pounds --		Percent
AL	40	38	128	127	99
AK	0.7	0.7	2.89	2.88	100
AZ	98	105	453	492	109
AR	64	62	188	183	97
CA	1,160	1,188	5,562	5,794	104
CO	80	80	357	356	100
CT	35	33	132	127	96
DE	10.3	10.0	40.7	34.8	86
FL	181	177	621	608	98
GA	102	102	378	380	101
HI	11.1	10.9	32.7	32.3	99
ID	185	193	784	830	106
IL	182	175	666	611	92
IN	143	145	553	546	99
IA	301	292	1,069	986	92
KS	86	77	295	255	86
KY	185	176	540	503	93
LA	80	78	230	217	94
ME	40	40	156	160	103
MD	100	96	358	347	97
MA	30	30	117	115	98
MI	340	338	1,324	1,325	100
MN	657	638	2,377	2,253	95
MS	60	58	182	171	94
MO	227	219	718	653	91
MT	23	22	80	74	93
NE	97	90	306	267	87
NV	20.0	20.0	87.0	88.0	101
NH	20	20	80	77	96
NJ	25	24	86	83	97
NM	120	147	560	687	123
NY	754	751	2,759	2,755	100
NC	96	92	384	367	96
ND	76	69	236	214	91
OH	316	302	1,128	1,128	100
OK	95	100	309	320	104
OR	102	100	420	415	99
PA	655	652	2,514	2,498	99
RI	2.3	2.3	7.4	7.7	104
SC	29	28	99	92	93
SD	128	124	390	387	99
TN	190	180	639	530	98
TX	378	387	1,393	1,449	104
UT	82	80	339	326	96
VT	165	162	609	606	100
VA	135	131	516	494	96
WA	253	257	1,210	1,228	101
WV	23	23	70	70	100
WI	1,633	1,512	5,722	5,275	92
WY	7.6	7.1	24.5	24.1	98
US <u>3/</u>	9,823	9,644	37,132	36,571	98

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 January-March 1993-94

State	Jan-Mar Milk Cows <u>1/</u>		Jan-Mar Milk Production <u>2/</u>		1994
	1993	1994	1993	1994	as % of 1993
	---- 1,000 ----		-- Million Pounds --		Percent
AL	39	37	141	139	99
AK	0.7	0.7	2.73	3.01	110
AZ	98	111	464	558	120
AR	64	62	196	192	98
CA	1,172	1,195	5,423	5,845	108
CO	80	80	354	365	103
CT	35	33	132	129	98
DE	10.0	10.0	38.2	38.5	101
FL	179	176	715	712	100
GA	100	101	420	418	100
HI	11.0	10.7	36.6	35.7	98
ID	184	196	743	816	110
IL	179	175	669	636	95
IN	143	145	558	559	100
IA	299	288	1,031	971	94
KS	84	75	285	260	91
KY	183	172	533	495	93
LA	80	79	268	256	96
ME	41	40	159	160	101
MD	100	94	361	352	98
MA	30	30	120	116	97
MI	340	339	1,350	1,350	100
MN	658	633	2,528	2,365	94
MS	60	56	209	164	78
MO	223	218	721	666	92
MT	22	21	75	72	96
NE	95	91	281	291	104
NV	20.0	20.0	84.0	87.0	104
NH	20	20	84	82	98
NJ	25	24	89	90	101
NM	127	154	595	766	129
NY	748	745	2,819	2,806	100
NC	96	91	396	381	96
ND	73	68	237	211	89
OH	310	302	1,162	1,135	98
OK	95	100	309	330	107
OR	100	100	409	405	99
PA	652	648	2,521	2,524	100
RI	2.3	2.3	7.7	8.3	108
SC	28	28	104	111	107
SD	127	122	398	393	99
TN	190	173	515	531	103
TX	381	391	1,515	1,629	108
UT	81	80	321	329	102
VT	164	160	622	607	98
VA	133	130	523	482	92
WA	252	257	1,205	1,239	103
WV	23	23	69	71	103
WI	1,607	1,492	5,786	5,326	92
WY	7.4	7.0	24.0	23.4	98
US <u>3/</u>	9,773	9,605	37,608	37,531	100

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, April 1, 1993-94

State	Grain and Other Concentrates : Fed Daily per Milk Cow		Value per 100 Pounds of Concentrate : Ration Fed to Milk Cows	
	1993	1994	1993	1994
	----- Pounds -----		----- Dollars -----	
AL	18.8	17.6	8.30	8.70
AK	19.0	19.2	13.50	13.50
AZ	21.0	23.5	7.10	8.15
AR	18.3	17.4	7.75	8.40
CA	19.5	21.0	7.10	7.75
CO	22.0	23.0	6.40	7.30
CT	16.5	17.0	8.55	9.20
DE	14.6	15.7	8.15	9.10
FL	26.0	30.0	7.10	7.30
GA	22.4	24.0	7.80	8.20
ID	21.0	21.0	6.50	6.80
IL	17.8	18.5	8.20	8.40
IN	17.1	16.7	7.30	7.90
IA	17.1	16.4	7.40	7.50
KS	18.5	19.1	7.05	7.55
KY	17.1	17.3	8.60	8.70
LA	18.0	18.2	8.20	8.50
ME	16.5	16.0	8.70	9.40
MD	15.6	16.4	8.50	9.30
MA	15.5	16.0	8.65	9.70
MI	17.3	16.5	7.60	7.20
MN	17.3	18.1	6.80	8.30
MS	18.2	18.5	8.00	8.70
MO	18.0	19.0	7.50	8.10
MT	16.5	16.5	7.10	7.55
NE	15.8	17.0	6.60	7.60
NV	22.0	20.0	7.80	9.00
NH	16.5	17.0	8.55	9.10
NJ	14.9	13.5	8.80	8.90
NM	25.0	25.0	6.20	6.70
NY	15.7	15.7	9.00	9.40
NC	17.7	18.6	8.80	9.45
ND	15.5	16.0	5.75	6.00
OH	17.5	16.4	8.20	9.20
OK	19.0	18.9	7.60	8.30
OR	18.0	18.0	8.70	9.00
PA	16.0	17.6	8.70	9.45
RI	16.5	15.0	8.00	9.20
SC	17.5	18.5	8.00	8.35
SD	16.2	16.9	6.55	7.00
TN	16.0	17.0	9.00	9.50
TX	24.8	24.0	7.50	8.20
UT	17.6	18.2	7.30	7.70
VT	16.0	16.0	8.70	9.20
VA	16.9	16.7	8.90	9.50
WA	20.5	20.5	7.85	8.35
WV	16.3	16.4	8.70	8.90
WI	17.4	17.5	7.05	8.00
WY	12.0	12.5	6.20	6.40
US	18.2	19.0	7.61	8.23

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, 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 0.4 percent. This means that chances are 2 out of 3 that the final estimate will not be above or below the current estimate of 9.61 million head by more than 0.4 percent, or about 38,000 head. Chances are 9 out of 10 that the difference will not exceed 0.8 percent, or about 76,800 head (the 90 percent confidence level).

Reliability of January-March 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	0.4	0.7	262	119	7	271	8	2	
			----- 1,000 Head -----						
All Milk Cows	0.4	0.8	77	31	1	90	9	1	

1/ Based on records for the past 10 January-March quarters.

The next "Milk Production" report will be released at 3 p.m. ET on May 13, 1994.

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