

# Milk Production



National  
Agricultural  
Statistics  
Service

United States  
Department of  
Agriculture

Washington, D.C.

---

Released April 15, 1993, by the Agricultural Statistics Board.

## March Milk Production Unchanged

Milk production in the 21 major States during March totaled 11.1 billion pounds, slightly below production in these same States in March 1992. February revised production, at 10.0 billion pounds was 3 percent less than February 1992 (which had 29 days).

Production per cow in the 21 major States averaged 1,356 pounds for March, 12 pounds above March 1992.

The number of cows on farms in the 21 major States was 8.18 million head, 80,000 below March 1992 and 19,000 below February 1993.

During the January-March period, the 21 major States produced 31.8 billion pounds of milk, 84.2 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 for January, 11.8 billion pounds for February, and 13.2 billion for March.

## January-March Milk Production Down 1 Percent

The quarterly production of milk for the U.S. was 37.8 billion pounds, 1 percent below the January-March period last year. The average number of milk cows in the U.S. during the January-March quarter was 9.78 million head, 88,000 less than the same period last year.

## Grain and Other Concentrates Fed

Grain and other concentrates fed to milk cows on April 1 1993, averaged 18.2 pounds per cow, 1 tenth of a pound more than on April 1 1992.

## Value of Grain and Other Concentrates

The value of grain and other concentrates fed to cows on April 1, averaged \$7.61 per hundredweight, \$0.15 less than the April 1, 1992 price.

---

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, 1992-93

Month	Milk Cows <u>1/</u>		Milk per Cow <u>2/</u>		Milk Production <u>2/</u>		1993 as % of 1992
	1992	1993	1992	1993	1992	1993	
	--- 1,000 ---		--- Pounds ---		Million Pounds		Percent
Jan-Mar	9,863	9,775	3,852	3,863	37,989	37,766	99
Apr-Jun	9,841		3,971		39,077		
Jul-Sep	9,826		3,818		37,515		
Oct-Dec	9,827		3,782		37,166		
Annual	9,839		15,423		151,747		

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

2/ Excludes milk sucked by calves.

Milk Cows and Production: By State, February, 1992-93 1/

State	Milk Cows <u>2/</u>		Milk per Cow <u>3/</u>		Milk Production <u>3/</u>		1993 as % of 1992
	1992	1993	1992	1993	1992	1993	
	--- 1,000 ---		--- Pounds ---		Million Pounds		Percent
CA	1,160	1,161	1,470	1,455	1,705	1,689	99
FL	182	179	1,260	1,265	229	226	99
ID	176	184	1,290	1,250	227	230	101
IL	187	180	1,160	1,180	217	212	98
IN	144	143	1,280	1,170	184	167	91
IA	302	305	1,170	1,160	353	354	100
KY	183	183	955	905	175	166	95
MD	99	101	1,200	1,140	119	115	97
MI	338	340	1,270	1,250	429	425	99
MN	670	660	1,220	1,200	817	792	97
MO	225	225	1,050	1,035	236	233	99
NY	745	748	1,245	1,175	928	879	95
NC	98	96	1,315	1,310	129	126	98
OH	330	313	1,140	1,215	376	380	101
PA	665	651	1,290	1,220	858	794	93
TN	195	190	880	870	172	165	96
TX	377	380	1,225	1,245	462	473	102
VT	163	165	1,240	1,165	202	192	95
VA	139	133	1,235	1,235	172	164	95
WA	241	252	1,535	1,490	370	375	101
WI	1,659	1,607	1,140	1,125	1,891	1,808	96
21 State:							
Total	8,278	8,196	1,238	1,216	10,251	9,965	97

1/ 1992 and 1993 revised.

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

3/ Excludes milk sucked by calves.

Milk Cows and Production: By Month, 21 Selected States, 1992-93

Month	Milk Cows <u>1/</u>		Milk per Cow <u>2/</u>		Milk Production <u>2/</u>		1993 as % of 1992
	1992	1993	1992	1993	1992	1993	
	--- 1,000 ---		Pounds		Million Pounds		Percent
Jan	8,298	8,215	1,291	1,310	10,715	10,760	100
Feb	8,278	8,196	1,238	1,216	10,251	9,965	97
Mar	8,257	8,177	1,344	1,356	11,096	11,089	100
Apr	8,255		1,314		10,850		
May	8,250		1,367		11,280		
Jun	8,250		1,321		10,897		
Jul	8,247		1,322		10,900		
Aug	8,243		1,295		10,673		
Sep	8,237		1,246		10,263		
Oct	8,238		1,278		10,532		
Nov	8,235		1,237		10,184		
Dec	8,247		1,292		10,659		
Annual	8,253		15,546		128,300		

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

2/ Excludes milk sucked by calves.

Milk Cows and Production: By State, March 1992-93

State	Milk Cows <u>1/</u>		Milk per Cow <u>2/</u>		Milk Production <u>2/</u>		
	1992	1993	1992	1993	1992	1993	1993 as % of 1992
	--- 1,000 ---		--- Pounds ---		Million Pounds		Percent
CA	1,158	1,161	1,620	1,645	1,876	1,910	102
FL	182	179	1,375	1,385	250	248	99
ID	175	185	1,430	1,390	250	257	103
IL	185	178	1,240	1,280	229	228	100
IN	143	143	1,390	1,310	199	187	94
IA	302	305	1,210	1,200	365	366	100
KY	183	182	1,020	1,015	187	185	99
MD	98	101	1,285	1,200	126	121	96
MI	338	340	1,360	1,370	460	466	101
MN	665	655	1,315	1,345	874	881	101
MO	225	225	1,160	1,190	261	268	103
NY	749	748	1,350	1,330	1,011	995	98
NC	98	95	1,400	1,425	137	135	99
OH	329	312	1,230	1,270	405	396	98
PA	657	650	1,380	1,355	907	881	97
TN	195	190	940	940	183	179	98
TX	377	381	1,360	1,400	513	533	104
VT	163	165	1,340	1,305	218	215	99
VA	138	133	1,325	1,360	183	181	99
WA	244	254	1,655	1,665	404	423	105
WI	1,653	1,595	1,245	1,275	2,058	2,034	99
21 State:							
Total	8,257	8,177	1,344	1,356	11,096	11,089	100

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

2/ Excludes milk sucked by calves.

Milk Cows and Production: By State and United States,  
Revised October-December 1991-92

State	Oct-Dec Milk Cows <u>1/</u>		Oct-Dec Milk Production <u>2/</u>		1992 as % of 1991
	1991	1992	1991	1992	
	----- 1,000 -----		Million Pounds		Percent
AL	42	40	129	128	99
AK	0.8	0.7	2.83	2.89	102
AZ	96	98	441	453	103
AR	66	64	186	188	101
CA	1,158	1,160	5,286	5,556	105
CO	77	80	332	357	108
CT	33	35	130	132	102
DE	9.4	9.8	32.3	36.2	112
FL	177	181	600	621	104
GA	104	102	361	378	105
HI	10.7	11.1	32.7	32.7	100
ID	178	185	714	784	110
IL	188	182	686	666	97
IN	145	143	554	561	101
IA	303	305	1,019	1,084	106
KS	96	86	305	295	97
KY	191	185	524	540	103
LA	79	80	224	230	103
ME	41	40	153	158	103
MD	103	100	354	359	101
MA	30	30	113	117	104
MI	339	340	1,281	1,324	103
MN	677	657	2,338	2,377	102
MS	60	60	175	182	104
MO	221	227	695	721	104
MT	24	23	81	80	99
NE	99	97	316	306	97
NV	19.0	20.0	86.0	87.0	101
NH	21	20	82	80	98
NJ	25	25	86	95	110
NM	101	120	502	558	111
NY	755	754	2,765	2,767	100
NC	98	96	378	384	102
ND	79	76	241	236	98
OH	334	316	1,128	1,128	100
OK	99	95	304	309	102
OR	100	102	409	420	103
PA	672	655	2,536	2,514	99
RI	2.2	2.3	8.2	7.4	90
SC	33	29	102	99	97
SD	134	128	405	390	96
TN	196	190	535	539	101
TX	374	378	1,312	1,393	106
UT	78	82	312	339	109
VT	164	165	600	609	102
VA	140	135	513	516	101
WA	236	253	1,112	1,210	109
WV	23	23	66	70	106
WI	1,683	1,633	5,697	5,722	100
WY	8.5	7.6	26.4	24.5	93
U S <u>3/</u>	9.923	9.827	36,270	37,166	102

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 1992-93

State	Jan-Mar Milk Cows <u>1/</u>		Jan-Mar Milk Production <u>2/</u>		1993
	1992	1993	1992	1993	as % of 1992
	----- 1,000 -----		Million Pounds		Percent
AL	42	39	142	142	100
AK	0.7	0.7	2.82	2.77	98
AZ	97	98	476	461	97
AR	65	64	202	196	97
CA	1,159	1,161	5,367	5,422	101
CO	79	80	342	354	104
CT	33	35	138	131	95
DE	9.2	9.8	35.9	34.3	96
FL	181	179	721	715	99
GA	104	100	418	420	100
HI	10.7	10.9	37.6	36.1	96
ID	176	184	718	743	103
IL	186	179	680	669	98
IN	144	143	576	540	94
IA	302	305	1,068	1,083	101
KS	93	84	315	285	90
KY	184	183	545	536	98
LA	80	80	268	264	99
ME	41	40	160	160	100
MD	99	101	370	357	96
MA	30	30	121	121	100
MI	338	340	1,339	1,350	101
MN	668	658	2,545	2,531	99
MS	60	60	209	209	100
MO	225	225	745	744	100
MT	23	23	81	78	96
NE	98	96	305	307	101
NV	20	20.0	87	86.0	99
NH	21	20	86	83	97
NJ	25	25	92	95	103
NM	104	127	506	596	118
NY	748	748	2,922	2,841	97
NC	98	96	401	396	99
ND	78	73	246	237	96
OH	329	313	1,176	1,180	100
OK	95	95	304	309	102
OR	100	100	408	420	103
PA	664	652	2,641	2,521	95
RI	2.2	2.3	8.8	7.5	85
SC	31	28	113	106	94
SD	131	127	410	398	97
TN	195	190	529	515	97
TX	376	380	1,455	1,511	104
UT	81	81	317	320	101
VT	163	165	633	619	98
VA	139	133	536	525	98
WA	242	252	1,161	1,206	104
WV	23	23	69	69	100
WI	1,660	1,607	5,934	5,810	98
WY	8.3	7.4	26.4	24.0	91
US <u>3/</u>	9,863	9,775	37,989	37,766	99

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, 1992-93

State	Grain and other concentrates : Fed Daily per Milk Cow		Value per 100 Pounds of Concentrate : Ration Fed to Milk Cows	
	1992	1993	1992	1993
	----- Pounds -----		----- Dollars -----	
AL	18.9	18.8	8.50	8.30
AK	18.0	19.0	13.00	13.50
AZ	24.9	21.0	6.80	7.10
AR	18.5	18.3	7.80	7.75
CA	19.5	19.5	7.30	7.10
CO	24.5	22.0	6.90	6.40
CT	15.7	16.5	8.80	8.55
DE	14.2	14.6	8.00	8.15
FL	26.0	26.0	7.30	7.10
GA	23.0	22.4	7.90	7.80
ID	18.0	21.0	6.60	6.50
IL	17.0	17.8	7.90	8.20
IN	17.3	17.1	7.60	7.30
IA	16.4	17.1	7.05	7.40
KS	20.2	18.5	7.55	7.05
KY	17.0	17.1	8.25	8.60
LA	18.0	18.0	8.20	8.20
ME	15.1	16.5	9.20	8.70
MD	15.3	15.6	9.00	8.50
MA	14.8	15.5	9.20	8.65
MI	16.0	17.3	7.50	7.60
MN	17.5	17.3	7.20	6.80
MS	18.4	18.2	8.10	8.00
MO	19.5	18.0	7.40	7.50
MT	16.0	16.5	7.15	7.10
NE	15.5	15.8	7.20	6.60
NV	22.0	22.0	8.00	7.80
NH	16.5	16.5	8.90	8.55
NJ	13.8	14.9	9.10	8.80
NM	22.0	25.0	5.80	6.20
NY	15.4	15.7	9.20	9.00
NC	17.4	17.7	8.80	8.80
ND	16.4	15.5	5.50	5.75
OH	17.0	17.5	8.20	8.20
OK	17.5	19.0	7.50	7.60
OR	17.0	18.0	8.80	8.70
PA	15.6	16.0	9.25	8.70
RI	16.0	16.5	8.80	8.00
SC	18.5	17.5	8.20	8.00
SD	15.4	16.2	6.40	6.55
TN	16.0	16.0	9.00	9.00
TX	23.5	24.8	7.50	7.50
UT	17.0	17.6	7.20	7.30
VT	14.7	16.0	8.90	8.70
VA	16.6	16.9	9.10	8.90
WA	19.0	20.5	7.55	7.85
WV	14.8	16.3	9.00	8.70
WI	18.0	17.4	7.30	7.05
WY	11.9	12.0	6.30	6.20
US	18.1	18.2	7.76	7.61

**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 9.78 million head by more than 0.4 percent, or about 39,000 head. Chances are 9 out of 10 that the difference will not exceed 0.8 percent, or about 78,000 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	0.8	302	-70	-7	-271	7	3
			----- 1,000 Head -----					
All Milk Cows	0.4	0.8	78	-32	-1	-90	9	1

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

The next "Milk Production" report will be released on May 14, 1993 at 3:00 p.m. ET.

# **Want to subscribe?** **Time to renew?**

Subscribe to **Milk Production** today! If you already subscribe to this timely periodical, note that expiration information about your subscription appears on the top line of your mailing label. **Expiration information will appear in one of three formats:** 1-PMP-2 (this means you have TWO issues remaining in your subscription) or 940430 (expiration date is April 30, 1994) or APR94 (expiration date is April 1994). Disregard this notice if no renewal information appears. **Call toll free, 1-800-999-6779**, and tell us whether you want to subscribe or renew, or return this form to: **ERS-NASS, 341 Victory Drive, Herndon, VA 22070.**

## **Milk Production**

- Yes! I want to **start** my subscription.  
 Yes! I want to **renew** my subscription.

	1 Year	2 Years	3 Years
Domestic	<input type="checkbox"/> \$22.00	<input type="checkbox"/> \$42.00	<input type="checkbox"/> \$62.00
Foreign	<input type="checkbox"/> \$27.50	<input type="checkbox"/> \$52.50	<input type="checkbox"/> \$77.50

### **New subscribers:**

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

Daytime phone: (\_\_\_\_) \_\_\_\_\_

### **Renewals:**

ATTACH MAILING LABEL HERE

### **Payment method:**

- Bill me. Use purchase orders, checks drawn on U.S. banks, cashier's checks, or international money orders. **Make payable to ERS-NASS.**  
 Enclosed is \$\_\_\_\_\_.

**Credit card orders:**  MasterCard  Visa Total charges \$\_\_\_\_\_.

Credit card number:

Card expiration date:      
Month/Year

**For fastest service, call our toll-free order desk 1-800-999-6779, in the U.S. and Canada; other areas please call 703-834-0125, or FAX this page to 703-834-0110.**

