

# Milk Production



United States  
Department of  
Agriculture

Washington, D.C.

---

Released May 14, 1993, by the Agricultural Statistics Board.

## April Milk Production

Milk production in the 21 major States during April totaled 11.0 billion pounds, 1 percent more than production in these same States in April 1992. March revised production at 11.1 billion pounds was slightly below March 1992.

Production per cow in the 21 major States averaged 1.344 pounds for April, 30 pounds more than April 1992.

The number of cows on farms in the 21 major States was 8.16 million head, 97,000 head less than April 1992 and 20,000 less than March 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 producers in the remaining 29 States not surveyed monthly followed the same pattern as the 21 States, the U.S. production would be 13.0 billion pounds for April 1993.

---

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

Da 1-1 (5-93)

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	37,764	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, March 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	1,158	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	1,000	187	182	97
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	382	1,360	1,405	513	537	105
VT	163	165	1,340	1,300	218	215	99
VA	138	133	1,325	1,345	183	179	98
WA	244	254	1,655	1,660	404	422	104
WI	1,653	1,595	1,245	1,275	2,058	2,034	99
21 State:							
Total	8,257	8,178	1,344	1,356	11,096	11,087	100

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 State Total, 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	8,178	1,344	1,356	11,096	11,087	100
Apr	8,255	8,158	1,314	1,344	10,850	10,967	101
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, April 1992-93

State	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
CA	1,158	1,162	1,590	1,635	1,841	1,900	103
FL	182	177	1,315	1,320	239	234	98
ID	178	185	1,420	1,380	253	255	101
IL	185	178	1,170	1,270	216	226	105
IN	143	143	1,360	1,320	194	189	97
IA	306	305	1,150	1,170	352	357	101
KY	182	180	1,010	1,030	184	185	101
MD	98	100	1,265	1,190	124	119	96
MI	338	340	1,310	1,340	443	456	103
MN	660	655	1,275	1,310	842	858	102
MO	226	225	1,170	1,230	264	277	105
NY	743	748	1,330	1,320	988	987	100
NC	97	95	1,350	1,385	131	132	101
OH	329	312	1,205	1,275	396	398	101
PA	656	647	1,370	1,345	899	870	97
TN	195	190	980	990	191	188	98
TX	376	383	1,330	1,395	500	534	107
VT	164	164	1,300	1,285	213	211	99
VA	137	132	1,275	1,320	175	174	99
WA	246	256	1,625	1,630	400	417	104
WI	1,656	1,581	1,215	1,265	2,005	2,000	100
21 State:							
Total	8,255	8,158	1,314	1,344	10,850	10,967	101

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

**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	Above Final	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 at 3:00 p.m. ET on June 15, 1993.

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

**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.**