



Milk Production

Released July 15, 1999, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, U.S. Department of Agriculture. For information on "Milk Production" call James Hand at 202-690-3236, office hours 7:00 a.m. to 4:30 p.m. ET.

June Milk Production Up 3.4 Percent

Milk production in the 20 major States during June totaled 11.8 billion pounds, up 3.4 percent from production in these same States in June 1998. May revised production, at 12.4 billion pounds, was up 3.5 percent from May 1998.

Production per cow in the 20 major States averaged 1,525 pounds for June, 48 pounds above June 1998.

The number of cows on farms in the 20 major States was 7.73 million head, 11,000 head more than June 1998, and 4,000 head more than May 1999.

April-June Milk Production Up 3.0 Percent

The quarterly production of milk for the U.S. was 42.0 billion pounds, 3.0 percent above the April-June period last year. The average number of milk cows in the U.S. during the April-June quarter was 9.15 million head, 20,000 head less than the same period last year.

Milk Cows and Production: By Quarter, United States, 1998-99 ¹

Quarter	Milk Cows ²		Milk Per Cow ³		Milk Production ³		
	1998	1999	1998	1999	1998	1999	Change From 1998
	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Percent</i>
Jan-Mar	9,176	9,136	4,268	4,437	39,164	40,540	3.5
Apr-Jun	9,171	9,151	4,451	4,593	40,821	42,034	3.0
Jul-Sep	9,149		4,210		38,519		
Oct-Dec	9,137		4,261		38,937		
Annual	9,158		17,192		157,441		

¹ May not add due to rounding.

² Includes dry cows, excludes heifers not yet fresh.

³ Excludes milk sucked by calves.

Milk Cows and Production: By Month, 20 Selected States, 1998-99

Month	Milk Cows ¹		Milk Per Cow ²		Milk Production ²		
	1998	1999	1998	1999	1998	1999	Change From 1998
	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Percent</i>
Jan	7,728	7,704	1,466	1,521	11,327	11,720	3.5
Feb	7,716	7,702	1,347	1,403	10,394	10,809	4.0
Mar	7,709	7,708	1,515	1,584	11,678	12,212	4.6
Apr	7,713	7,714	1,501	1,554	11,579	11,989	3.5
May	7,719	7,725	1,556	1,609	12,011	12,430	3.5
Jun	7,718	7,729	1,477	1,525	11,396	11,785	3.4
Jul	7,709		1,468		11,314		
Aug	7,708		1,443		11,124		
Sep	7,701		1,386		10,672		
Oct	7,695		1,446		11,125		
Nov	7,697		1,407		10,829		
Dec	7,708		1,489		11,481		
Annual	7,710		17,501		134,930		

¹ Includes dry cows, excludes heifers not yet fresh.

² Excludes milk sucked by calves.

Estimated Milk Production: United States, 1998-99

Month	By Month			Cumulative		
	1998	1999	Change From 1998	1998	1999	Change From 1998
	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Percent</i>	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Percent</i>
Jan	13,282	13,676	3.0	13,282	13,676	3.0
Feb	12,188	12,613	3.5	25,470	26,289	3.2
Mar	13,694	14,251	4.1	39,164	40,540	3.5
Apr	13,510	13,920	3.0	52,674	54,460	3.4
May	14,015	14,431	3.0	66,689	68,891	3.3
Jun	13,296	13,683	2.9	79,985	82,574	3.2
Jul	13,162			93,147		
Aug	12,942			106,089		
Sep	12,415			118,504		
Oct	12,956			131,460		
Nov	12,611			144,071		
Dec	13,370			157,441		

Milk Cows and Production: By State, June 1998-99

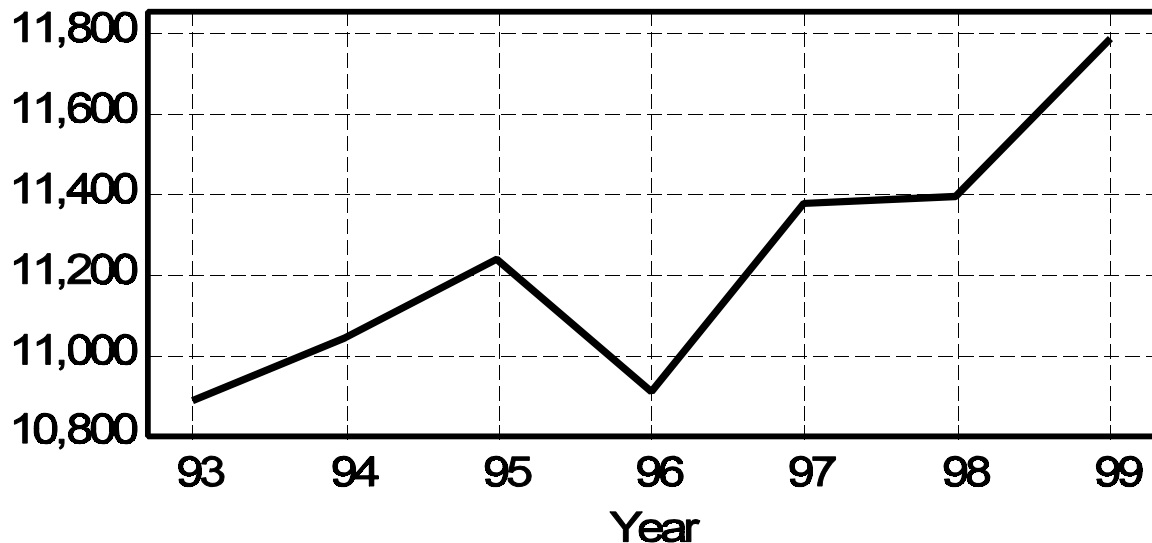
Month	Milk Cows ¹		Milk Per Cow ²		Milk Production ²		Change From 1998
	1998	1999	1998	1999	1998	1999	
	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Percent</i>
AZ	131	134	1,780	1,830	233	245	5.2
CA	1,417	1,464	1,635	1,725	2,317	2,525	9.0
FL	160	159	1,170	1,295	187	206	10.2
ID	293	316	1,660	1,670	486	528	8.6
IL	128	122	1,360	1,420	174	173	-0.6
IN	137	136	1,340	1,390	184	189	2.7
IA	222	215	1,433	1,460	318	314	-1.3
KY	141	133	1,000	1,000	141	133	-5.7
MI	303	291	1,515	1,530	459	445	-3.1
MN	555	545	1,425	1,485	791	809	2.3
MO	171	160	1,135	1,095	194	175	-9.8
NM	217	234	1,755	1,730	381	405	6.3
NY	701	702	1,430	1,470	1,002	1,032	3.0
OH	264	260	1,420	1,460	375	380	1.3
PA	623	614	1,435	1,495	894	918	2.7
TX	353	346	1,320	1,325	466	458	-1.7
VT	162	162	1,420	1,450	230	235	2.2
VA	125	121	1,185	1,225	148	148	
WA	247	247	1,835	1,875	453	463	2.2
WI	1,368	1,368	1,435	1,465	1,963	2,004	2.1
20-State Total	7,718	7,729	1,477	1,525	11,396	11,785	3.4

¹ Includes dry cows, excludes heifers not yet fresh.

² Excludes milk sucked by calves.

June Milk Production, 1993-1999 20 States

Million Pounds



Milk Cows and Production: By State, May 1998-99 ¹

State	Milk Cows ²		Milk per Cow ³		Milk Production ³		Change From 1998
	1998	1999	1998	1999	1998	1999	
	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Percent</i>
AZ	130	134	1,945	2,060	253	276	9.1
CA	1,414	1,460	1,720	1,820	2,432	2,657	9.3
FL	162	160	1,350	1,405	219	225	2.7
ID	293	314	1,680	1,710	492	537	9.1
IL	128	123	1,510	1,490	193	183	-5.2
IN	137	136	1,420	1,400	195	190	-2.6
IA	223	215	1,520	1,550	339	333	-1.8
KY	141	133	1,115	1,120	157	149	-5.1
MI	299	293	1,560	1,600	466	469	0.6
MN	555	545	1,490	1,550	827	845	2.2
MO	172	161	1,285	1,305	221	210	-5.0
NM	217	232	1,795	1,795	390	416	6.7
NY	701	702	1,490	1,530	1,044	1,074	2.9
OH	265	260	1,485	1,540	394	400	1.5
PA	623	615	1,550	1,605	966	987	2.2
TX	356	345	1,480	1,515	527	523	-0.8
VT	162	162	1,480	1,515	240	245	2.1
VA	125	122	1,310	1,345	164	164	
WA	248	247	1,885	1,935	467	478	2.4
WI	1,368	1,366	1,480	1,515	2,025	2,069	2.2
20-State Total	7,719	7,725	1,556	1,609	12,011	12,430	3.5

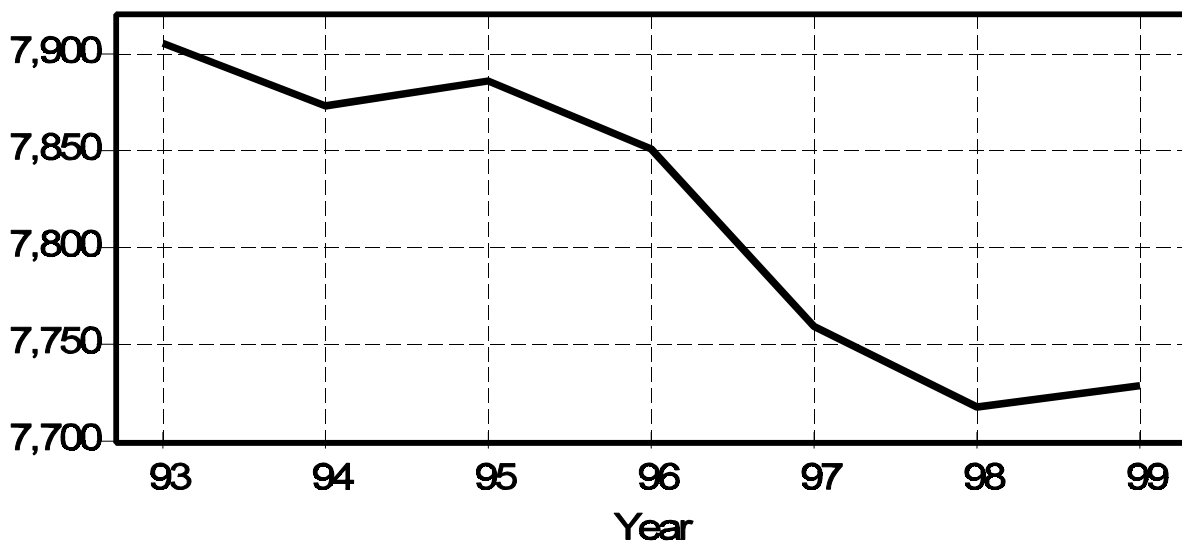
¹ 1999 revised.

² Includes dry cows, excludes heifers not yet fresh.

³ Excludes milk sucked by calves.

June Milk Cows, 1993-1999 20 States

Thousand Head



**Milk Cows and Production: By State and United States,
Revised January-March, 1998-99**

State	Jan-Mar Milk Cows ¹		Jan-Mar Milk Production ²		Change From 1998
	1998	1999	1998	1999	
	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Percent</i>
AL	28	27	109	106	-2.8
AK	0.9	1.0	3.52	3.47	-1.4
AZ	130	132	695	776	11.7
AR	51	45	164	130	-20.7
CA	1,405	1,448	6,764	7,289	7.8
CO	83	82	407	417	2.5
CT	30	29	136	134	-1.5
DE	11.0	11.0	44.0	43.9	-0.2
FL	161	158	657	679	3.3
GA	95	90	403	400	-0.7
HI	9.0	8.8	31.5	29.9	-5.1
ID	283	306	1,356	1,468	8.3
IL	129	125	546	528	-3.3
IN	134	136	546	547	0.2
IA	224	217	950	961	1.2
KS	80	85	335	350	4.5
KY	143	135	444	420	-5.4
LA	64	62	216	208	-3.7
ME	40	42	165	175	6.1
MD	87	86	348	350	0.6
MA	26	25	109	106	-2.8
MI	297	298	1,301	1,353	4.0
MN	555	545	2,334	2,425	3.9
MS	43	39	169	160	-5.3
MO	175	164	609	608	-0.2
MT	18	18	72	74	2.8
NE	70	72	259	292	12.7
NV	25	25	113	118	4.4
NH	19	19	83	82	-1.2
NJ	19	18	75	70	-6.7
NM	216	225	1,014	1,152	13.6
NY	698	701	2,863	2,981	4.1
NC	77	73	332	317	-4.5
ND	53	50	179	176	-1.7
OH	265	260	1,113	1,102	-1.0
OK	92	92	322	325	0.9
OR	88	88	384	403	4.9
PA	625	615	2,745	2,717	-1.0
RI	2.1	2.0	8.3	7.9	-4.8
SC	25	24	105	103	-1.9
SD	102	102	341	367	7.6
TN	108	100	401	379	-5.5
TX	365	341	1,498	1,547	3.3
UT	88	91	361	382	5.8
VT	162	162	664	684	3.0
VA	125	122	477	468	-1.9
WA	250	248	1,286	1,350	5.0
WV	18	18	71	71	
WI	1,376	1,367	5,537	5,686	2.7
WY	6.2	5.9	19.2	18.9	-1.6
US ³	9,176	9,136	39,164	40,540	3.5

¹ Includes dry cows, excludes heifers not yet fresh.

² Excludes milk sucked by calves.

³ May not add due to rounding.

**Milk Cows and Production: By State and United States,
Preliminary April-June, 1998-99**

State	Apr-Jun Milk Cows ¹		Apr-Jun Milk Production ²		Change From 1998
	1998	1999	1998	1999	
	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Percent</i>
AL	28	27	104	100	-3.8
AK	0.9	1.0	3.67	3.57	-2.7
AZ	130	133	731	794	8.6
AR	49	45	167	132	-21.0
CA	1,414	1,460	7,061	7,759	9.9
CO	83	81	432	405	-6.3
CT	30	29	136	137	0.7
DE	11.0	11.0	44.4	43.6	-1.8
FL	161	160	629	660	4.9
GA	95	90	381	386	1.3
HI	8.8	8.6	35.7	32.5	-9.0
ID	291	314	1,445	1,577	9.1
IL	128	123	559	533	-4.7
IN	137	136	571	561	-1.8
IA	223	215	984	970	-1.4
KS	81	86	345	360	4.3
KY	141	133	458	431	-5.9
LA	63	61	203	189	-6.9
ME	41	42	173	180	4.0
MD	86	86	348	337	-3.2
MA	26	25	112	109	-2.7
MI	300	293	1,371	1,367	-0.3
MN	555	545	2,414	2,469	2.3
MS	42	39	157	150	-4.5
MO	172	161	641	595	-7.2
MT	18	18	74	77	4.1
NE	69	73	263	304	15.6
NV	25	25	120	128	6.7
NH	20	19	87	83	-4.6
NJ	19	18	75	67	-10.7
NM	217	232	1,143	1,223	7.0
NY	701	701	3,040	3,128	2.9
NC	76	73	325	311	-4.3
ND	52	49	181	181	
OH	265	260	1,159	1,149	-0.9
OK	92	92	316	317	0.3
OR	89	88	404	440	8.9
PA	623	615	2,815	2,855	1.4
RI	2.1	2.0	8.6	8.3	-3.5
SC	25	24	100	101	1.0
SD	102	102	362	380	5.0
TN	106	99	399	373	-6.5
TX	356	344	1,528	1,509	-1.2
UT	90	91	388	406	4.6
VT	162	162	698	714	2.3
VA	125	122	477	473	-0.8
WA	248	247	1,366	1,405	2.9
WV	18	18	70	69	-1.4
WI	1,368	1,366	5,896	6,032	2.3
WY	6.1	5.9	20.7	20.1	-2.9
US ³	9,171	9,151	40,821	42,034	3.0

¹ Includes dry cows, excludes heifers not yet fresh.

² Excludes milk sucked by calves.

³ May not add due to rounding.

Reliability Statement

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. 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 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 on the next page. 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 1.1 percent. This means that chances are 2 out of 3 that the final April-June estimate will not be above or below the current estimate of 9.15 million head by more than 1.1 percent, or about 101,000 head. Chances are 9 out of 10 that the difference will not exceed 2.1 percent, or about 192,000 head (the 90 percent confidence level).

Reliability of April-June Milk Estimates ¹

Item	Root Mean Square Error	90% Confidence Level		Difference Between First and Latest Estimates			Quarters	
				Average	Smallest	Largest	First Above Latest	First Below Latest
				<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Number</i>	<i>Number</i>
Milk Production	<i>Percent</i>	<i>Percent</i>	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Million Pounds</i>	<i>Number</i>	<i>Number</i>
	0.6	1.0	420	179	3	426	10	0
All Milk Cows	<i>Percent</i>	<i>Percent</i>	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>Number</i>	<i>Number</i>
	1.1	2.1	192	92	11	188	8	2

¹ Based on records for the past 10 April-June quarters.

The next "Milk Production" report will be released at 3 p.m. ET on August 16, 1999.

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