

# Milk Production



National  
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Statistics  
Service

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Department of  
Agriculture

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## June Milk Production

Milk production in the 21 major States during June totaled 11.0 billion pounds, 1 percent more than production in these same States in June 1993. May revised production, at 11.5 billion pounds, was slightly above May 1993.

Production per cow in the 21 major States averaged 1,369 pounds for June, 23 pounds more than June 1993.

The number of cows on farms in the 21 major States was 8.04 million head, 93,000 head less than June 1993 but 16,000 head more than May 1994.

During the April-June period, the 21 major States produced 33.5 billion pounds of milk, 83.8 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 13.2 billion pounds for April, 13.7 billion pounds for May, and 13.1 billion pounds for June.

## April-June Milk Production Up 1 Percent

The quarterly production of milk for the U.S. was 40.0 billion pounds, 1 percent above the April-June period last year. The average number of milk cows in the U.S. during the April-June quarter was 9.64 million head, 89,000 less than the same period last year.

## Grain and Other Concentrates Fed

Grain and other concentrates fed to milk cows on July 1, 1994, averaged 18.2 pounds per cow, 0.6 of a pound more than July 1, 1993.

## Value of Grain and Other Concentrates

The value of grain and other concentrates fed to cows on July 1, averaged \$8.10 per hundredweight, \$0.39 more than the price on July 1, 1993.

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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, 1993-94

Quarter	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-Mar	9,773	9,612	3,848	3,921	37,608	37,692	100
Apr-Jun	9,727	9,638	4,052	4,147	39,411	39,965	101
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 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	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	8,037	1,346	1,369	10,940	11,003	101
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.

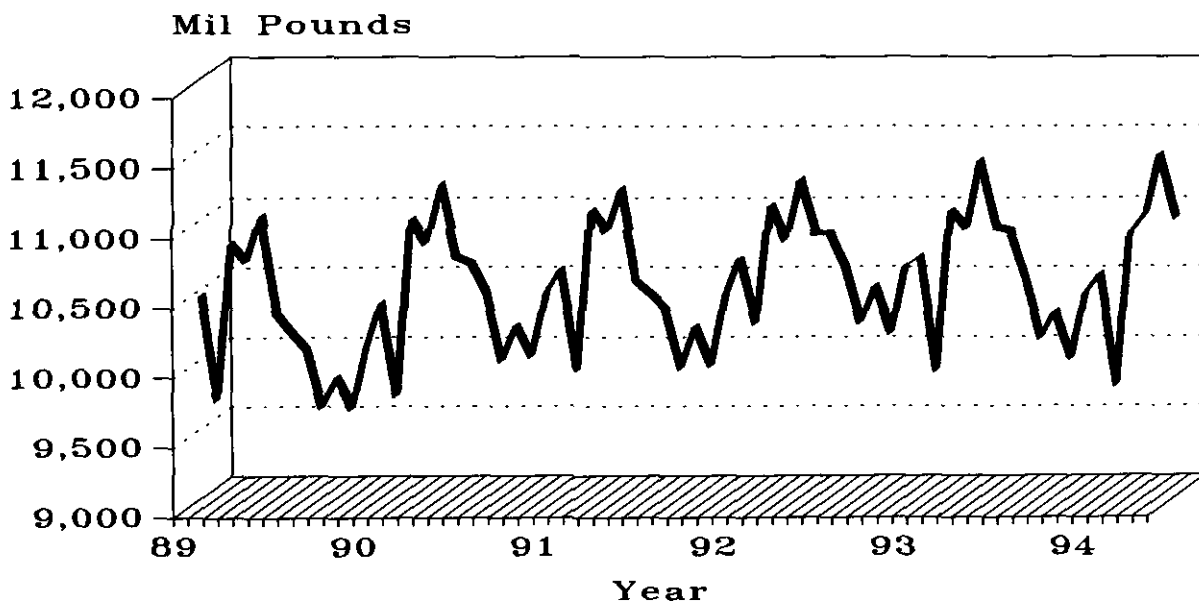
Milk Cows and Production: By State, June 1993-94

State	Milk Cows <sup>1/</sup>		Milk per Cow <sup>2/</sup>		Milk Production <sup>2/</sup>		1994 as % of 1993
	1993	1994	1993	1994	1993	1994	
	----- 1,000 -----		Pounds		Million Pounds		Percent
CA	1,179	1,218	1,620	1,708	1,910	2,080	109
FL	177	178	1,175	1,260	208	224	108
ID	190	205	1,450	1,560	276	320	116
IL	178	176	1,280	1,280	228	225	99
IN	145	145	1,360	1,280	197	186	94
IA	295	287	1,140	1,150	336	330	98
KY	178	170	1,015	940	181	160	88
MD	99	93	1,190	1,195	118	111	94
MI	339	337	1,360	1,420	461	479	104
MN	650	625	1,320	1,325	858	828	97
MO	223	220	1,105	1,040	246	229	93
NY	743	735	1,345	1,360	999	1,000	100
NC	94	91	1,245	1,330	117	121	103
OH	304	300	1,280	1,235	389	371	95
PA	647	650	1,355	1,335	877	868	99
TN	185	165	990	1,040	183	172	94
TX	385	398	1,275	1,295	491	515	105
VT	161	159	1,335	1,325	215	211	98
VA	132	130	1,205	1,175	159	153	96
WA	258	260	1,630	1,690	421	439	104
WI	1,568	1,495	1,320	1,325	2,070	1,981	96
21 State Total	8,130	8,037	1,346	1,369	10,940	11,003	101

<sup>1/</sup> Includes dry cows. Excludes heifers not yet fresh.

<sup>2/</sup> Excludes milk sucked by calves.

## Milk Production, 1989-1994 21 States

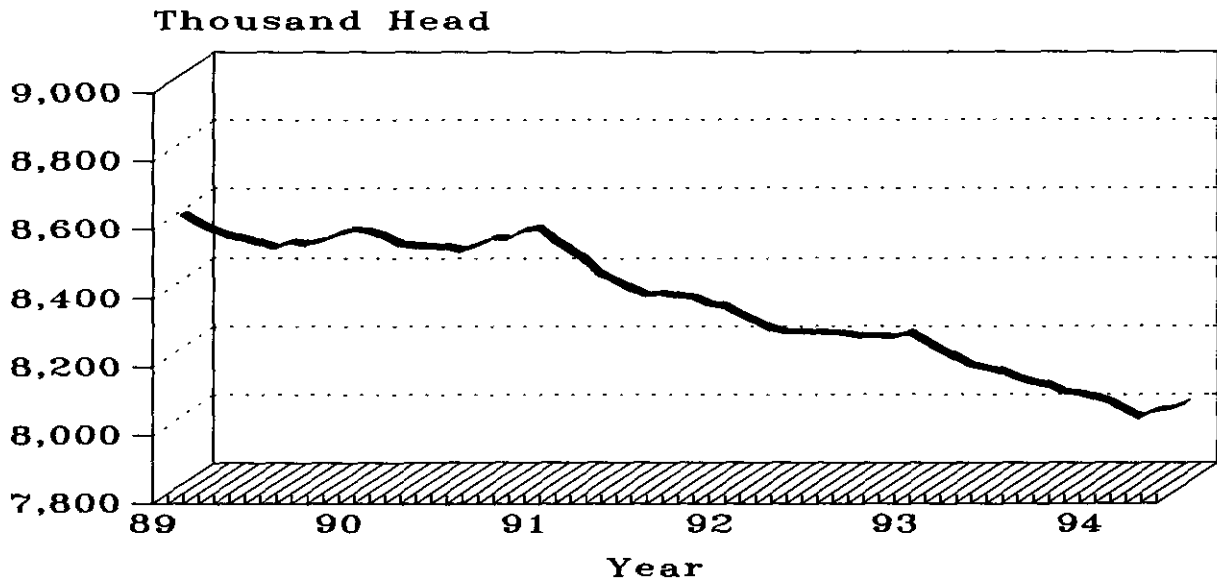


Milk Cows and Production: By State, May 1993-94 1/

State	Milk Cows <u>2/</u>		Milk per Cow <u>3/</u>		Milk Production <u>3/</u>		1994 as % of 1993
	1993	1994	1993	1994	1993	1994	
	1,000		Pounds		Million Pounds		Percent
CA	1,177	1,210	1,690	1,750	1,989	2,118	106
FL	177	178	1,315	1,400	233	249	107
ID	188	204	1,460	1,580	274	322	118
IL	178	174	1,310	1,300	233	226	97
IN	144	145	1,410	1,370	203	199	98
IA	295	285	1,160	1,170	342	333	97
KY	180	170	1,100	1,035	198	176	89
MD	100	93	1,270	1,320	127	123	97
MI	339	337	1,400	1,440	475	485	102
MN	650	625	1,375	1,360	894	850	95
MO	222	218	1,210	1,160	269	253	94
NY	744	737	1,385	1,400	1,030	1,032	100
NC	95	91	1,395	1,475	133	134	101
OH	305	301	1,350	1,345	412	405	98
PA	644	647	1,420	1,410	914	912	100
TN	190	170	1,000	1,110	190	189	99
TX	385	397	1,395	1,460	537	580	108
VT	162	159	1,385	1,380	224	219	98
VA	132	130	1,320	1,275	174	166	95
WA	257	260	1,685	1,750	433	455	105
WI	1,575	1,490	1,350	1,360	2,126	2,026	95
21 State Total	8,139	8,021	1,402	1,428	11,410	11,452	100

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 January-March 1993-94

State	Jan-Mar Milk Cows <u>1/</u>		Jan-Mar Milk Production <u>2/</u>		1994 as % of 1993
	1993	1994	1993	1994	
	---- 1,000 ----		-- Million Pounds --		Percent
AL	39	37	141	143	101
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	1,196	5,423	5,902	109
CO	80	80	354	367	104
CT	35	33	132	130	98
DE	10.0	10.0	38.2	38.5	101
FL	179	176	715	726	102
GA	100	102	420	430	102
HI	11.0	10.7	36.6	35.7	98
ID	184	196	743	819	110
IL	179	175	669	636	95
IN	143	145	558	562	101
IA	299	288	1,031	971	94
KS	84	76	285	265	93
KY	183	172	533	495	93
LA	80	79	268	256	96
ME	41	40	159	159	100
MD	100	94	361	352	98
MA	30	30	120	115	96
MI	340	339	1,350	1,350	100
MN	658	633	2,528	2,365	94
MS	60	58	209	203	97
MO	223	218	721	670	93
MT	22	21	75	72	96
NE	95	91	281	291	104
NV	20.0	21	84.0	92	110
NH	20	20	84	82	98
NJ	25	24	89	90	101
NM	127	154	595	771	130
NY	748	745	2,819	2,806	100
NC	96	91	396	383	97
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	8.1	105
SC	28	28	104	111	107
SD	127	122	398	393	99
TN	190	173	515	531	103
TX	381	391	1,515	1,632	108
UT	81	80	321	328	102
VT	164	160	622	608	98
VA	133	130	523	486	93
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	9,612	37,608	37,692	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.

Milk Cows and Production: By State and United States  
Preliminary April-June 1993-94

State	Apr-Jun Milk Cows <u>1/</u>		Apr-Jun Milk Production <u>2/</u>		1994 as % of 1993
	1993	1994	1993	1994	
	---- 1,000 ----		-- Million Pounds --		Percent
AL	39	36	137	135	99
AK	0.7	0.7	3.16	3.43	109
AZ	102	120	486	569	117
AR	64	61	204	201	99
CA	1,177	1,211	5,804	6,287	108
CO	80	81	371	398	107
CT	34	33	134	133	99
DE	10.0	10.0	38.6	38.9	101
FL	177	178	675	727	108
GA	100	102	401	426	106
HI	10.9	10.9	38.8	37.6	97
ID	188	203	805	936	116
IL	178	175	687	672	98
IN	144	145	589	578	98
IA	296	286	1,023	993	97
KS	83	77	280	290	104
KY	179	170	569	512	90
LA	80	80	255	254	100
ME	42	40	177	164	93
MD	100	93	366	354	97
MA	30	30	124	120	97
MI	339	338	1,390	1,435	103
MN	650	627	2,604	2,488	96
MS	60	58	205	201	98
MO	223	218	773	732	95
MT	22	21	80	78	98
NE	93	91	294	309	105
NV	20.0	21.0	90.0	95.6	106
NH	20	20	85	83	98
NJ	25	24	90	91	101
NM	132	161	660	840	127
NY	745	737	3,005	3,015	100
NC	95	91	382	387	101
ND	73	69	252	228	90
OH	305	301	1,199	1,167	97
OK	98	100	319	330	103
OR	100	100	434	443	102
PA	646	647	2,661	2,641	99
RI	2.3	2.3	8.8	8.3	94
SC	28	28	98	104	106
SD	126	121	426	428	100
TN	188	168	561	555	99
TX	384	397	1,560	1,686	108
UT	83	86	347	367	106
VT	162	159	651	639	98
VA	132	130	506	484	96
WA	257	260	1,271	1,326	104
WV	23	23	70	71	101
WI	1,575	1,490	6,196	5,879	95
WY	7.4	7.1	25.8	24.8	96
US <u>3/</u>	9,727	9,638	39,411	39,965	101

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, July 1, 1993-94

State	Grain and Other Concentrates : Value per 100 Pounds of Concentrate Fed Daily per Milk Cow		Ration Fed to Milk Cows	
	1993	1994	1993	1994
	----- Pounds -----		----- Dollars -----	
AL	17.4	17.2	8.10	8.70
AK	19.0	19.5	13.50	13.50
AZ	21.0	22.4	7.10	7.70
AR	18.0	16.7	7.90	8.30
CA	19.5	21.0	7.35	7.65
CO	20.0	23.0	6.80	7.30
CT	16.3	17.0	8.40	9.00
DE	14.9	16.0	8.30	9.10
FL	26.0	25.0	7.00	7.80
GA	20.7	21.8	7.70	8.10
ID	21.0	21.0	6.50	6.70
IL	17.0	17.5	7.80	8.40
IN	17.0	16.4	7.50	7.75
IA	17.0	16.7	6.30	8.10
KS	19.2	19.8	7.30	7.80
KY	16.3	15.8	8.00	9.00
LA	17.0	18.5	8.20	8.65
ME	15.0	15.0	8.50	9.40
MD	16.5	13.0	8.90	8.90
MA	14.7	15.0	9.00	9.40
MI	16.6	16.5	6.95	7.15
MN	17.3	16.7	7.30	7.90
MS	17.4	16.6	7.90	8.50
MO	17.5	18.2	7.55	8.10
MT	17.3	17.4	7.55	7.50
NE	16.2	17.3	6.90	7.70
NV	20.0	20.0	7.60	8.00
NH	16.6	16.5	8.50	9.10
NJ	13.7	15.0	8.90	8.80
NM	25.0	24.0	6.30	6.60
NY	14.5	14.7	9.00	9.30
NC	17.4	17.6	8.80	8.90
ND	16.0	15.9	6.05	5.90
OH	16.0	17.2	8.10	8.10
OK	18.3	19.0	7.85	8.10
OR	18.0	19.0	8.60	9.05
PA	16.7	16.2	9.10	9.40
RI	13.3	15.5	7.80	9.10
SC	17.5	18.5	8.05	8.15
SD	16.0	16.5	6.40	6.75
TN	16.0	16.0	9.00	9.30
TX	22.3	22.1	7.40	7.90
UT	17.3	20.1	7.10	7.40
VT	14.3	14.5	8.60	9.00
VA	16.3	14.7	9.00	8.20
WA	20.5	20.5	7.95	8.15
WV	14.9	14.8	8.90	8.90
WI	16.0	16.6	7.40	8.00
WY	11.7	12.6	6.75	6.20
US	17.6	18.2	7.71	8.10

Grain and Other Concentrates: Quantity Fed Annually and Value  
by State and United States, 1992 <sup>1/</sup>

State	Annual Quantity Fed to Milk Cows			Annual Average Value of Feed per Cwt	Annual Average Feed Value per Cwt of Milk
	Total	Per Cow	Per Cwt of Milk		
	1,000 Tons	Pounds		Dollars	
AL	131	6,380	52	8.42	4.42
AK	3	6,970	40	13.10	5.30
AZ	403	8,210	45	6.92	3.10
AR	233	6,540	54	7.96	4.28
CA	4,088	7,060	37	7.33	2.71
CO	354	8,850	50	6.76	3.38
CT	103	6,050	38	8.79	3.30
DE	28	5,760	40	8.19	3.24
FL	851	9,400	66	7.14	4.69
GA	410	8,040	54	7.97	4.29
ID	643	7,030	41	6.56	2.68
IL	564	6,090	42	7.93	3.36
IN	447	6,200	39	7.51	2.96
IA	888	5,880	42	7.17	3.00
KS	318	7,130	52	7.58	3.92
KY	549	5,960	51	8.38	4.26
LA	255	6,360	53	8.27	4.42
ME	116	5,640	36	8.90	3.23
MD	282	5,690	39	8.73	3.38
MA	82	5,430	34	8.93	3.03
MI	1,026	6,050	38	7.06	2.71
MN	2,020	6,120	41	7.30	3.02
MS	185	6,170	49	8.08	3.93
MO	728	6,410	49	7.50	3.68
MT	69	5,970	42	7.12	3.00
NE	277	5,710	45	6.92	3.15
NV	78	7,770	44	7.98	3.48
NH	60	5,690	36	8.82	3.17
NJ	63	5,000	35	9.19	3.24
NM	500	9,010	46	6.22	2.85
NY	2,079	5,550	36	9.04	3.22
NC	310	6,390	41	8.69	3.55
ND	228	5,830	46	5.57	2.58
OH	987	6,090	42	8.18	3.47
OK	320	6,670	52	7.62	3.99
OR	308	6,040	36	8.68	3.16
PA	1,815	5,540	35	9.00	3.15
RI	7	5,790	40	9.05	3.62
SC	95	6,300	48	8.14	3.91
SD	366	5,620	44	6.28	2.76
TN	534	5,560	49	8.98	4.42
TX	1,510	8,030	54	7.52	4.10
UT	263	6,400	39	7.16	2.81
VT	440	5,360	35	8.86	3.10
VA	400	5,830	39	9.00	3.47
WA	895	7,190	37	7.83	2.93
WV	61	5,320	44	8.88	3.88
WI	5,182	6,300	43	7.23	3.09
WY	18	4,480	34	6.24	2.10
US	31,572	6,417	41.6	7.69	3.20

<sup>1/</sup> Estimates for all places where milk produced, either for sale or for home use. Calculations to produce these estimates were modified for the 1993 summary. To assure comparability between years 1992 uses the same modifications.



Grain and Other Concentrates: Quantity Fed Annually and Value  
by State and United States, 1993 <sup>1/</sup>

State	Annual Quantity Fed to Milk Cows			Annual Average	Annual Average
	Total	Per Cow	Per Cwt	Value of Feed per Cwt	Feed Value per Cwt of Milk
	1,000 Tons	Pounds		Dollars	
AL	126	6,470	49	8.40	4.11
AK	3	6,970	41	13.50	5.56
AZ	413	8,100	44	7.27	3.22
AR	208	6,590	54	7.95	4.30
CA	4,354	7,380	38	7.40	2.84
CO	313	7,820	43	6.68	2.90
CT	104	6,120	40	8.62	3.42
DE	28	5,540	38	8.18	3.12
FL	883	9,920	69	7.24	5.03
GA	399	7,900	52	7.96	4.16
ID	727	7,690	45	6.58	2.97
IL	578	6,530	44	8.37	3.64
IN	451	6,260	40	7.60	3.04
IA	912	6,180	45	7.32	3.28
KS	281	6,930	52	7.21	3.73
KY	552	6,160	52	8.42	4.37
LA	257	6,510	55	8.36	4.62
ME	120	5,820	36	8.81	3.16
MD	281	5,730	40	8.81	3.49
MA	86	5,720	36	8.91	3.17
MI	1,033	6,090	38	6.94	2.65
MN	2,087	6,440	43	7.42	3.17
MS	198	6,690	53	8.14	4.29
MO	722	6,500	51	7.71	3.96
MT	69	6,280	45	7.34	3.28
NE	270	5,870	48	6.94	3.36
NV	76	7,550	43	8.02	3.49
NH	60	5,990	37	8.73	3.24
NJ	65	5,180	37	8.89	3.26
NM	616	9,060	47	6.42	3.04
NY	2,057	5,500	36	9.12	3.32
NC	305	6,480	41	8.91	3.68
ND	207	5,810	44	5.87	2.60
OH	972	6,370	42	8.12	3.41
OK	340	6,930	54	7.79	4.20
OR	330	6,600	39	8.82	3.45
PA	1,937	5,960	38	9.09	3.42
RI	7	5,600	40	8.31	3.32
SC	92	6,580	49	8.14	3.97
SD	373	5,960	46	6.48	3.01
TN	553	5,980	52	9.10	4.70
TX	1,625	8,440	55	7.62	4.18
UT	260	6,410	39	7.20	2.82
VT	450	5,550	36	8.73	3.17
VA	400	6,050	40	8.90	3.52
WA	972	7,560	39	8.00	3.13
WV	65	5,660	47	8.83	4.17
WI	4,952	6,360	43	7.44	3.20
WY	16	4,370	32	6.29	2.03
US	32,185	6,637	42.7	7.78	3.32

<sup>1/</sup> Estimates for all places where milk produced, either for sale or for home use. Calculations to produce these estimates were modified for the 1993 summary. To assure comparability between years 1992 uses the same modifications.

**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 0.5 percent. This means that chances are 2 out of 3 that the final estimate will not be above or below the current estimate of 9.64 million head by more than 0.5 percent, or about 48,000 head. Chances are 9 out of 10 that the difference will not exceed 0.8 percent, or about 77,100 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 Final Estimates <u>1/</u>			Number of Quarters		
			Average	Smallest	Largest	Above Final	Below Final	
Milk Production	0.5	1.0	400	155	0	394	6	3
All Milk Cows	0.5	0.8	77	36	5	94	9	1

----- 1,000 Head -----

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, 1994.

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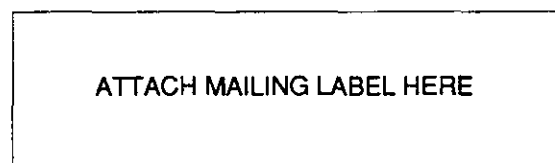
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