

Milk Production



United States
Department of
Agriculture

Washington, D.C.

Released on February 16, 1994, by the Agricultural Statistics Board.

January Milk Production

Milk production in the 21 major States during January totaled 10.6 billion pounds, 1 percent less than production in these same States in January 1993. December revised production at 10.5 billion pounds was 2 percent below December 1992.

Production per cow in the 21 major States averaged 1,319 pounds for January, 14 pounds more than January 1993.

The number of cows on farms in the 21 major States was 8.04 million head, 178,000 head less than January 1993 and 13,000 less than December 1993.

During the October-December period, the 21 major States produced 30.8 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 12.6 billion pounds for January 1994.

Special this issue:

Annual Revisions, 1992-93 Inventory and operations by size group, and Milk Production by Size Group.

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		3,848		37,608		
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 States, December 1992-93 1/

State	Milk Cows <u>2/</u>		Milk per Cow <u>3/</u>		Milk Production <u>3/</u>		1994 as % of 1993
	1992	1993	1992	1993	1992	1993	
	---- 1,000 ----		---- Pounds ----		Million Pounds		Percent
CA	1,161	1,190	1,610	1,635	1,869	1,946	104
FL	180	177	1,270	1,275	229	226	99
ID	185	193	1,410	1,440	261	278	107
IL	182	175	1,240	1,170	226	205	91
IN	143	145	1,330	1,280	190	186	98
IA	301	290	1,190	1,130	358	328	92
KY	186	175	995	980	185	172	93
MD	100	96	1,230	1,240	123	119	97
MI	340	338	1,320	1,340	449	453	101
MN	660	635	1,255	1,230	828	781	94
MO	226	218	1,090	1,020	246	222	90
NY	755	751	1,245	1,255	940	943	100
NC	96	91	1,375	1,390	132	126	95
OH	315	302	1,220	1,255	384	379	99
PA	659	654	1,290	1,295	850	847	100
TN	190	178	940	1,000	179	178	99
TX	380	390	1,280	1,300	486	507	104
VT	167	161	1,245	1,285	208	207	100
VA	135	130	1,310	1,290	177	168	95
WA	254	257	1,605	1,600	408	411	101
WI	1,628	1,508	1,185	1,180	1,929	1,779	92
21 State:							
Total	8,243	8,054	1,293	1,299	10,657	10,461	98

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, 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	8,041	1,305	1,319	10,728	10,606	99
Feb	8,193		1,209		9,908		
Mar	8,173		1,353		11,060		
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, January 1993-94

State	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
CA	1,171	1,192	1,555	1,619	1,821	1,930	106
FL	180	176	1,340	1,360	241	239	99
ID	184	194	1,390	1,430	256	277	108
IL	180	175	1,270	1,210	229	212	93
IN	143	145	1,340	1,310	192	190	99
IA	300	290	1,150	1,125	345	326	94
KY	184	173	1,005	990	185	171	92
MD	100	95	1,240	1,240	124	118	95
MI	340	339	1,350	1,345	459	456	99
MN	660	635	1,295	1,280	855	813	95
MO	225	220	1,085	1,040	244	229	94
NY	747	750	1,290	1,265	964	949	98
NC	96	91	1,410	1,440	135	131	97
OH	312	302	1,265	1,285	395	388	98
PA	656	650	1,290	1,320	846	858	101
TN	190	175	900	990	171	173	101
TX	380	390	1,330	1,385	505	540	107
VT	166	161	1,285	1,305	213	210	99
VA	134	130	1,345	1,285	180	167	93
WA	251	258	1,625	1,630	408	421	103
WI	1,620	1,500	1,210	1,205	1,960	1,808	92
21 State: Total	8,219	8,041	1,305	1,319	10,728	10,606	99

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

2/ Excludes milk sucked by calves.

Milk Cows and Milk Production: United States, 1986-93

Year	Milk Cows <u>1/</u>		Production per Cow <u>2/</u>		Milk Production <u>2/</u>
	1.000		Pounds		Million Pounds
1986	10,773		13,285		143,124
1987	10,327		13,819		142,709
1988	10,262		14,145		145,152
1989	10,126		14,245		144,239
1990	10,127		14,645		148,313
1991	9,992		14,860		148,477
1992 <u>3/</u>	9,835		15,419		151,647
1993 <u>3/</u>	9,705		15,554		150,954

1/ Average number during year, excluding heifers not yet fresh.

2/ Excludes milk sucked by calves.

3/ Revised.

Milk Cows and Milk Production: By Month and 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	8,298	8,219	1,291	1,305	10,716	10,728	100
Feb	8,278	8,193	1,238	1,209	10,250	9,908	97
Mar	8,256	8,173	1,344	1,353	11,098	11,060	100
Jan-Mar	9,862	9,773	3,851	3,848	37,985	37,608	99
Apr	8,245	8,148	1,315	1,341	10,842	10,927	101
May	8,246	8,139	1,367	1,402	11,275	11,410	101
Jun	8,245	8,130	1,320	1,346	10,887	10,940	100
Apr-Jun	9,835	9,727	3,971	4,052	39,050	39,411	101
Jul	8,243	8,110	1,322	1,346	10,900	10,913	100
Aug	8,239	8,098	1,294	1,306	10,658	10,573	99
Sep	8,232	8,090	1,245	1,253	10,251	10,138	99
Jul-Sep	9,820	9,675	3,817	3,862	37,481	37,364	100
Oct	8,234	8,069	1,277	1,280	10,515	10,331	98
Nov	8,231	8,065	1,236	1,239	10,174	9,994	98
Dec	8,243	8,054	1,293	1,299	10,657	10,461	98
Oct-Dec	9,823	9,644	3,780	3,792	37,132	36,571	98
Annual	9,835	9,705	15,419	15,554	151,647	150,954	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, 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
AL	41	39	12,268	13,205	503	515	102
AK	0.7	0.7	17,429	17,000	12.2	11.9	98
AZ	98	102	18,235	18,402	1,787	1,877	105
AR	65	63	12,108	12,206	787	769	98
CA	1,158	1,180	19,080	19,425	22,095	22,921	104
CO	80	80	17,700	18,175	1,416	1,454	103
CT	34	34	15,912	15,294	541	520	96
DE	9.6	10.0	14,396	14,590	138.2	145.9	106
FL	181	178	14,249	14,371	2,579	2,558	99
GA	102	101	14,882	15,198	1,518	1,535	101
HI	11.0	10.9	13,182	13,028	145.0	142.0	98
ID	183	189	17,148	17,085	3,138	3,229	103
IL	185	177	14,497	14,836	2,682	2,626	98
IN	144	144	15,896	15,660	2,289	2,255	99
IA	302	295	14,010	13,742	4,231	4,054	96
KS	89	81	13,708	13,333	1,220	1,080	89
KY	184	179	11,685	11,844	2,150	2,120	99
LA	80	79	12,000	11,835	960	935	97
ME	41	41	15,659	16,171	642	663	103
MD	99	98	14,586	14,327	1,444	1,404	97
MA	30	30	15,967	15,900	479	477	100
MI	339	339	15,920	16,032	5,397	5,435	101
MN	660	648	14,930	14,977	9,854	9,705	98
MS	60	59	12,600	12,627	756	745	99
MO	227	222	13,088	12,743	2,971	2,829	95
MT	23	22	14,217	13,955	327	307	94
NE	97	92	12,680	12,228	1,230	1,125	91
NV	20.0	20.0	17,650	17,550	353.0	351.0	99
NH	21	20	15,810	16,200	332	324	98
NJ	25	25	14,280	14,000	357	350	98
NM	111	136	19,586	19,272	2,174	2,621	121
NY	749	748	15,430	15,274	11,557	11,425	99
NC	97	94	15,577	15,798	1,511	1,485	98
ND	78	71	12,679	13,211	989	938	95
OH	324	305	14,491	15,164	4,695	4,625	99
OK	96	98	12,823	12,827	1,231	1,257	102
OR	102	100	16,784	16,920	1,712	1,692	99
PA	655	650	15,823	15,677	10,364	10,190	98
RI	2.3	2.3	14,478	14,000	33.3	32.2	97
SC	30	28	13,133	13,429	394	376	95
SD	130	125	12,769	12,952	1,660	1,619	98
TN	192	185	11,344	11,492	2,178	2,126	98
TX	376	385	14,867	15,351	5,590	5,910	106
UT	82	81	16,402	16,444	1,345	1,332	99
VT	164	162	15,305	15,414	2,510	2,497	99
VA	137	132	14,956	15,114	2,049	1,995	97
WA	249	257	19,422	19,377	4,836	4,980	103
WV	23	23	12,087	12,043	278	277	100
WI	1,645	1,557	14,652	14,781	24,103	23,014	95
WY	7.9	7.3	13,190	13,658	104.2	99.7	96
US <u>3/</u>	9.835	9.705	15,419	15,554	151,647	150,954	100

1/ Average number during year, excluding heifers not yet fresh.

2/ Excludes milk sucked by calves. 3/ Will not add due to rounding.

Milk Cows: Number by Month, State, and United States, 1992 1/

State	Jan	Feb	Mar	Apr	May	Jun	
	1,000						
CA	1,160	1,160	1,158	1,158	1,157	1,156	
FL	180	182	182	182	182	182	
ID	177	176	175	178	184	186	
IL	187	187	185	185	187	185	
IN	146	144	143	143	144	145	
IA	302	302	302	302	303	302	
KY	187	183	183	182	182	181	
MD	100	99	98	98	98	98	
MI	338	338	338	338	338	339	
MN	670	670	665	660	660	660	
MO	224	225	225	226	228	229	
NY	750	745	748	743	740	745	
NC	98	98	98	97	97	96	
OH	329	330	329	329	329	329	
PA	669	665	657	656	651	650	
TN	195	195	195	195	194	192	
TX	375	377	377	376	376	375	
VT	162	163	163	164	163	163	
VA	140	139	138	137	137	136	
WA	241	241	244	246	249	251	
WI	1,668	1,659	1,653	1,650	1,647	1,645	
21 States	8,298	8,278	8,256	8,245	8,246	8,245	
	Jul	Aug	Sep	Oct	Nov	Dec	Annual Avg. <u>2/</u>
CA	1,157	1,157	1,158	1,159	1,160	1,161	1,158
FL	181	180	180	181	181	180	181
ID	187	186	186	186	185	185	183
IL	185	185	183	183	182	182	185
IN	146	146	144	144	143	143	144
IA	303	302	302	302	301	301	302
KY	181	184	184	184	186	186	184
MD	98	99	100	100	100	100	99
MI	340	340	340	340	340	340	339
MN	660	655	655	655	655	660	660
MO	229	229	228	228	226	226	227
NY	747	750	755	753	753	755	749
NC	96	96	96	96	96	96	97
OH	327	323	319	318	315	315	324
PA	646	650	648	650	655	659	655
TN	190	190	188	190	190	190	192
TX	375	375	375	376	378	380	376
VT	164	164	164	164	164	167	164
VA	136	136	136	135	135	135	137
WA	252	251	252	253	253	254	249
WI	1,643	1,641	1,639	1,637	1,633	1,628	1,645
21 States	8,243	8,239	8,232	8,234	8,231	8,243	8,249

1/ Includes dry cows, excludes heifers not yet fresh.

2/ Average based on monthly totals.

Milk Cows: Number by Month, State, and United States, 1993 1/

State	Jan	Feb	Mar	Apr	May	Jun		
	1,000							
CA	1,171	1,172	1,174	1,176	1,177	1,179		
FL	180	179	179	177	177	177		
ID	184	184	185	185	188	190		
IL	180	180	178	178	178	178		
IN	143	143	143	143	144	145		
IA	300	298	298	297	295	295		
KY	184	183	182	180	180	178		
MD	100	100	100	100	100	99		
MI	340	340	340	339	339	339		
MN	660	660	655	650	650	650		
MO	225	223	221	223	222	223		
NY	747	748	748	748	744	743		
NC	96	96	95	95	95	94		
OH	312	310	308	306	305	304		
PA	656	651	650	647	644	647		
TN	190	190	190	190	190	185		
TX	380	380	382	383	385	385		
VT	166	164	163	162	162	161		
VA	134	133	133	132	132	132		
WA	251	252	254	256	257	258		
WI	1,620	1,607	1,595	1,581	1,575	1,568		
21 States	8,219	8,193	8,173	8,148	8,139	8,130		
	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
							Avg. <u>2/</u>	
CA	1,181	1,182	1,184	1,187	1,188	1,190	1,180	
FL	178	179	179	177	177	177	178	
ID	192	192	192	193	193	193	189	
IL	176	176	175	175	175	175	177	
IN	145	145	145	145	145	145	144	
IA	294	294	293	293	292	290	295	
KY	178	177	176	176	176	175	179	
MD	97	97	96	96	96	96	98	
MI	339	339	339	338	338	338	339	
MN	650	645	645	640	640	635	648	
MO	223	223	222	220	220	218	222	
NY	744	751	749	750	753	751	748	
NC	94	94	93	92	92	91	94	
OH	304	303	302	302	302	302	305	
PA	649	649	651	652	650	654	650	
TN	183	182	182	181	180	178	185	
TX	386	386	386	386	386	390	385	
VT	161	160	161	162	162	161	162	
VA	131	132	131	131	131	130	132	
WA	260	261	260	258	257	257	257	
WI	1,545	1,531	1,529	1,515	1,512	1,508	1,557	
21 States	8,110	8,098	8,090	8,069	8,065	8,054	8,124	

1/ Includes dry cows, excludes heifers not yet fresh.

2/ Average based on monthly totals.

Milk: Milk Produced per Cow, by Month, State, and United States, 1992 ^{1/}

State	Jan	Feb	Mar	Apr	May	Jun		
Pounds								
CA	1,540	1,470	1,620	1,590	1,650	1,610		
FL	1,345	1,260	1,375	1,315	1,320	1,135		
ID	1,360	1,290	1,430	1,420	1,490	1,460		
IL	1,250	1,160	1,240	1,170	1,220	1,200		
IN	1,320	1,280	1,390	1,360	1,425	1,335		
IA	1,160	1,170	1,210	1,150	1,160	1,140		
KY	980	955	1,020	1,010	1,045	945		
MD	1,250	1,200	1,300	1,265	1,295	1,195		
MI	1,330	1,270	1,360	1,310	1,370	1,350		
MN	1,275	1,220	1,315	1,275	1,320	1,280		
MO	1,100	1,060	1,160	1,170	1,210	1,100		
NY	1,310	1,240	1,350	1,325	1,390	1,335		
NC	1,375	1,315	1,400	1,350	1,340	1,215		
OH	1,210	1,140	1,230	1,205	1,280	1,230		
PA	1,310	1,290	1,380	1,370	1,410	1,340		
TN	890	880	940	980	1,000	960		
TX	1,280	1,225	1,360	1,330	1,330	1,200		
VT	1,315	1,240	1,340	1,300	1,350	1,315		
VA	1,295	1,235	1,325	1,275	1,285	1,185		
WA	1,605	1,535	1,655	1,625	1,685	1,625		
WI	1,190	1,140	1,245	1,215	1,295	1,300		
21 States	1,291	1,238	1,344	1,315	1,367	1,320		
	Jul	Aug	Sep	Oct	Nov	Dec	Annual	Average
CA	1,640	1,590	1,570	1,620	1,565	1,610	19,080	
FL	1,060	1,020	970	1,060	1,105	1,270	14,249	
ID	1,540	1,520	1,430	1,440	1,380	1,410	17,148	
IL	1,220	1,210	1,200	1,220	1,190	1,240	14,497	
IN	1,340	1,300	1,260	1,280	1,250	1,330	15,896	
IA	1,170	1,160	1,150	1,180	1,180	1,190	14,010	
KY	945	955	940	985	935	995	11,685	
MD	1,175	1,190	1,130	1,180	1,170	1,230	14,586	
MI	1,370	1,350	1,310	1,315	1,260	1,320	15,920	
MN	1,265	1,205	1,145	1,190	1,175	1,255	14,930	
MO	1,075	1,055	995	1,050	1,030	1,090	13,088	
NY	1,320	1,280	1,225	1,240	1,175	1,245	15,430	
NC	1,185	1,210	1,230	1,315	1,310	1,375	15,577	
OH	1,230	1,200	1,180	1,200	1,150	1,220	14,491	
PA	1,330	1,310	1,250	1,290	1,260	1,290	15,823	
TN	950	950	950	950	940	940	11,344	
TX	1,175	1,150	1,120	1,210	1,195	1,280	14,867	
VT	1,300	1,265	1,225	1,250	1,195	1,245	15,305	
VA	1,160	1,205	1,200	1,265	1,245	1,310	14,956	
WA	1,680	1,640	1,595	1,615	1,555	1,605	19,422	
WI	1,300	1,275	1,185	1,190	1,130	1,185	14,652	
21 States	1,322	1,294	1,245	1,277	1,236	1,293	15,544	

^{1/} Excludes milk sucked by calves.

Milk: Milk Produced per Cow, by Month, State, and United States, 1993 1/

State	Jan	Feb	Mar	Apr	May	Jun	
	Pounds						
CA	1,555	1,440	1,630	1,620	1,690	1,620	
FL	1,340	1,265	1,385	1,320	1,315	1,175	
ID	1,390	1,250	1,390	1,380	1,460	1,450	
IL	1,270	1,180	1,280	1,270	1,310	1,280	
IN	1,340	1,230	1,330	1,320	1,410	1,360	
IA	1,150	1,130	1,170	1,160	1,160	1,140	
KY	1,005	905	1,000	1,055	1,100	1,015	
MD	1,240	1,140	1,230	1,210	1,270	1,190	
MI	1,350	1,250	1,370	1,340	1,400	1,360	
MN	1,295	1,200	1,345	1,310	1,375	1,320	
MO	1,085	1,010	1,140	1,155	1,210	1,105	
NY	1,290	1,165	1,315	1,305	1,385	1,345	
NC	1,410	1,310	1,425	1,385	1,395	1,245	
OH	1,265	1,175	1,310	1,300	1,350	1,280	
PA	1,290	1,220	1,355	1,345	1,420	1,355	
TN	900	870	940	990	1,000	990	
TX	1,330	1,245	1,405	1,390	1,395	1,275	
VT	1,285	1,175	1,325	1,310	1,385	1,335	
VA	1,345	1,235	1,345	1,310	1,320	1,205	
WA	1,625	1,490	1,660	1,630	1,685	1,630	
WI	1,210	1,115	1,275	1,265	1,350	1,320	
21 States	1,305	1,209	1,353	1,341	1,402	1,346	
	Jul	Aug	Sep	Oct	Nov	Dec	Annual Average
CA	1,690	1,680	1,620	1,650	1,590	1,635	19,425
FL	1,110	1,035	990	1,065	1,090	1,275	14,371
ID	1,510	1,490	1,430	1,460	1,400	1,440	17,085
IL	1,280	1,270	1,200	1,190	1,130	1,170	14,836
IN	1,360	1,290	1,230	1,260	1,220	1,280	15,660
IA	1,170	1,145	1,135	1,140	1,110	1,130	13,742
KY	985	990	940	960	920	980	11,844
MD	1,145	1,165	1,105	1,165	1,210	1,240	14,327
MI	1,380	1,350	1,310	1,310	1,270	1,340	16,032
MN	1,270	1,190	1,125	1,160	1,140	1,230	14,977
MO	1,080	1,015	970	990	970	1,020	12,743
NY	1,320	1,260	1,225	1,230	1,180	1,255	15,274
NC	1,225	1,200	1,205	1,305	1,310	1,390	15,798
OH	1,275	1,245	1,230	1,255	1,225	1,255	15,164
PA	1,345	1,295	1,225	1,285	1,250	1,295	15,677
TN	950	950	950	970	980	1,000	11,492
TX	1,255	1,170	1,165	1,230	1,210	1,300	15,351
VT	1,310	1,295	1,240	1,250	1,210	1,285	15,414
VA	1,185	1,225	1,185	1,250	1,235	1,290	15,114
WA	1,675	1,645	1,580	1,625	1,550	1,600	19,377
WI	1,310	1,260	1,180	1,185	1,125	1,180	14,781
21 States	1,346	1,306	1,253	1,280	1,239	1,299	15,680

1/ Excludes milk sucked by calves.

Milk Production: Total by Month, State, and United States, 1992 1/

State	Jan	Feb	Mar	Apr	May	Jun							
Million Pounds													
CA	1,786	1,705	1,876	1,841	1,909	1,861							
FL	242	229	250	239	240	207							
ID	241	227	250	253	274	272							
IL	234	217	229	216	228	222							
IN	193	184	199	194	205	194							
IA	350	353	365	347	351	344							
KY	183	175	187	184	190	171							
MD	125	119	128	124	127	117							
MI	450	429	460	443	463	458							
MN	854	817	874	842	871	845							
MO	246	239	261	264	276	252							
NY	983	924	1,011	985	1,029	995							
NC	135	129	137	131	130	117							
OH	398	376	405	396	421	405							
PA	876	858	907	899	918	871							
TN	174	172	183	191	194	184							
TX	480	462	513	500	500	450							
VT	213	202	218	213	220	214							
VA	181	172	183	175	176	161							
WA	387	370	404	400	420	408							
WI	1,985	1,891	2,058	2,005	2,133	2,139							
21 States	10,716	10,250	11,098	10,842	11,275	10,887							
							Annual						
							Jul	Aug	Sep	Oct	Nov	Dec	Total
CA	1,897	1,840	1,818	1,878	1,815	1,869	22,095						
FL	192	184	175	192	200	229	2,579						
ID	288	283	266	268	255	261	3,138						
IL	226	224	220	223	217	226	2,682						
IN	196	190	181	184	179	190	2,289						
IA	355	350	347	356	355	358	4,231						
KY	171	176	173	181	174	185	2,150						
MD	115	118	113	118	117	123	1,444						
MI	466	459	445	447	428	449	5,397						
MN	835	789	750	779	770	828	9,854						
MO	246	242	227	239	233	246	2,971						
NY	986	960	925	934	885	940	11,557						
NC	114	116	118	126	126	132	1,511						
OH	402	388	376	382	362	384	4,695						
PA	859	852	810	839	825	850	10,364						
TN	181	181	179	181	179	179	2,178						
TX	441	431	420	455	452	486	5,590						
VT	213	207	201	205	196	208	2,510						
VA	158	164	163	171	168	177	2,049						
WA	423	412	402	409	393	408	4,836						
WI	2,136	2,092	1,942	1,948	1,845	1,929	24,103						
21 States	10,900	10,658	10,251	10,515	10,174	10,657	128,223						

1/ Excludes milk sucked by calves.

Milk Production: Total by Month, State, and United States, 1993 1/

State	Jan	Feb	Mar	Apr	May	Jun		
Million Pounds								
CA	1,821	1,688	1,914	1,905	1,989	1,910		
FL	241	226	248	234	233	208		
ID	256	230	257	255	274	276		
IL	229	212	228	226	233	228		
IN	192	176	190	189	203	197		
IA	345	337	349	345	342	336		
KY	185	166	182	190	198	181		
MD	124	114	123	121	127	118		
MI	459	425	466	454	475	461		
MN	855	792	881	852	894	858		
MO	244	225	252	258	269	246		
NY	964	871	984	976	1,030	999		
NC	135	126	135	132	133	117		
OH	395	364	403	398	412	389		
PA	846	794	881	870	914	877		
TN	171	165	179	188	190	183		
TX	505	473	537	532	537	491		
VT	213	193	216	212	224	215		
VA	180	164	179	173	174	159		
WA	408	375	422	417	433	421		
WI	1,960	1,792	2,034	2,000	2,126	2,070		
21 States	10,728	9,908	11,060	10,927	11,410	10,940		
	Jul	Aug	Sep	Oct	Nov	Dec	Annual Total	
CA	1,996	1,986	1,918	1,959	1,889	1,946	22,921	
FL	198	185	177	189	193	226	2,558	
ID	290	286	275	282	270	278	3,229	
IL	225	224	210	208	198	205	2,626	
IN	197	187	178	183	177	186	2,255	
IA	344	337	333	334	324	328	4,054	
KY	175	175	165	169	162	172	2,120	
MD	111	113	106	112	116	119	1,404	
MI	468	458	444	443	429	453	5,435	
MN	826	768	726	742	730	781	9,705	
MO	241	226	215	218	213	222	2,829	
NY	982	946	918	923	889	943	11,425	
NC	115	113	112	120	121	126	1,485	
OH	388	377	371	379	370	379	4,625	
PA	873	840	797	838	813	847	10,190	
TN	174	173	173	176	176	178	2,126	
TX	484	452	450	475	467	507	5,910	
VT	211	207	200	203	196	207	2,497	
VA	155	162	155	164	162	168	1,995	
WA	436	429	411	419	398	411	4,980	
WI	2,024	1,929	1,804	1,795	1,701	1,779	23,014	
21 States	10,913	10,573	10,138	10,331	9,994	10,461	127,383	

1/ Excludes milk sucked by calves.

Milk Cows and Production: Number and Total Produced
by Quarter, State, and United States, 1992

State	Milk Cows <u>1/</u>				Milk Production <u>2/</u>			
	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
	1,000 Head				Million Pounds			
AL	42	40	40	40	142	129	104	128
AK	0.7	0.7	0.7	0.7	2.82	3.21	3.28	2.89
AZ	97	98	99	98	476	464	394	453
AR	65	65	65	64	202	207	190	188
CA	1,159	1,157	1,157	1,160	5,367	5,611	5,555	5,562
CO	79	80	79	80	342	360	357	357
CT	33	34	34	35	138	139	132	132
DE	9.2	9.3	9.6	10.3	32.9	32.0	32.6	40.7
FL	181	182	180	181	721	686	551	621
GA	104	101	102	102	418	392	330	378
HI	10.7	11.0	11.1	11.1	37.6	39.7	35.0	32.7
ID	176	183	186	185	718	799	837	784
IL	186	186	184	182	680	666	670	666
IN	144	144	145	143	576	593	567	553
IA	302	302	302	301	1,068	1,042	1,052	1,069
KS	93	90	88	86	315	315	295	295
KY	184	182	183	185	545	545	520	540
LA	80	80	79	80	268	252	210	230
ME	41	41	40	40	158	165	163	156
MD	99	98	99	100	372	368	346	358
MA	30	30	30	30	121	122	119	117
MI	338	338	340	340	1,339	1,364	1,370	1,324
MN	668	660	657	657	2,545	2,558	2,374	2,377
MS	60	59	59	60	209	199	166	182
MO	225	228	229	227	746	792	715	718
MT	23	23	23	23	81	84	82	80
NE	98	97	96	97	305	312	307	306
NV	20	20.0	20	20.0	87	90.0	89	87.0
NH	21	21	20	20	86	86	80	80
NJ	25	25	25	25	91	92	88	86
NM	104	108	113	120	506	551	557	560
NY	748	743	751	754	2,918	3,009	2,871	2,759
NC	98	97	96	96	401	378	348	384
ND	78	79	77	76	246	261	246	236
OH	329	329	323	316	1,179	1,222	1,166	1,128
OK	95	98	95	95	304	319	299	309
OR	100	102	102	102	408	442	442	420
PA	664	652	648	655	2,641	2,688	2,521	2,514
RI	2.2	2.3	2.3	2.3	8.8	9.1	8	7.4
SC	31	30	29	29	113	98	84	99
SD	131	131	130	128	410	440	420	390
TN	195	194	189	190	529	569	541	539
TX	376	376	375	378	1,455	1,450	1,292	1,393
UT	81	83	83	82	317	345	344	339
VT	163	163	164	165	633	647	621	609
VA	139	137	136	135	536	512	485	516
WA	242	249	252	253	1,161	1,228	1,237	1,210
WV	23	23	23	23	69	70	69	70
WI	1,660	1,647	1,641	1,633	5,934	6,277	6,170	5,722
WY	8.3	7.9	7.7	7.6	26.4	27.5	25.8	24.5
US <u>3/</u>	9,862	9,835	9,820	9,823	37,985	39,050	37,481	37,132

1/ Quarterly average includes dry cows, excludes, heifers not yet fresh.
2/ Excludes milk sucked by calves. 3/ Will not add due to rounding.

Milk Cows and Production: Number and Total Produced
by Quarter, State, and United States, 1993

State	Milk Cows <u>1/</u>				Milk Production <u>2/</u>			
	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
	1,000 Head				Million Pounds			
AL	39	39	38	38	141	137	110	127
AK	0.7	0.7	0.7	0.7	2.73	3.16	3.13	2.88
AZ	98	102	104	105	464	486	435	492
AR	64	64	62	62	196	204	186	183
CA	1,172	1,177	1,182	1,188	5,423	5,804	5,900	5,794
CO	80	80	81	80	354	371	373	356
CT	35	34	33	33	132	134	127	127
DE	10.0	10.0	10.0	10.0	38.2	38.6	34.3	34.8
FL	179	177	179	177	715	675	560	608
GA	100	100	100	102	420	401	334	380
HI	11.0	10.9	10.9	10.9	36.6	38.8	34.3	32.3
ID	184	188	192	193	743	805	851	830
IL	179	178	176	175	669	687	659	611
IN	143	144	145	145	558	589	562	546
IA	299	296	294	292	1,031	1,023	1,014	986
KS	84	83	80	77	285	280	260	255
KY	183	179	177	176	533	569	515	503
LA	80	80	78	78	268	255	195	217
ME	41	42	41	40	159	177	167	160
MD	100	100	97	96	361	366	330	347
MA	30	30	30	30	120	124	118	115
MI	340	339	339	338	1,350	1,390	1,370	1,325
MN	658	650	647	638	2,528	2,604	2,320	2,253
MS	60	60	58	58	209	205	160	171
MO	223	223	223	219	721	773	682	653
MT	22	22	22	22	75	80	78	74
NE	95	93	90	90	281	294	283	267
NV	20.0	20.0	20.0	20.0	84.0	90.0	89.0	88.0
NH	20	20	20	20	84	85	78	77
NJ	25	25	25	24	89	90	88	83
NM	127	132	139	147	595	660	679	687
NY	748	745	748	751	2,819	3,005	2,846	2,755
NC	96	95	94	92	396	382	340	367
ND	73	73	70	69	237	252	235	214
OH	310	305	303	302	1,162	1,199	1,136	1,128
OK	95	98	98	100	309	319	309	320
OR	100	100	100	100	409	434	434	415
PA	652	646	650	652	2,521	2,661	2,510	2,498
RI	2.3	2.3	2.2	2.3	7.7	8.8	8	7.7
SC	28	28	28	28	104	98	82	92
SD	127	126	124	124	398	426	408	387
TN	190	188	182	180	515	561	520	530
TX	381	384	386	387	1,515	1,560	1,386	1,449
UT	81	83	81	80	321	347	338	326
VT	164	162	161	162	622	651	618	606
VA	133	132	131	131	523	506	472	494
WA	252	257	260	257	1,205	1,271	1,276	1,228
WV	23	23	23	23	69	70	68	70
WI	1,607	1,575	1,535	1,512	5,786	6,196	5,757	5,275
WY	7.4	7.4	7.3	7.1	24.0	25.8	25.8	24.1
US <u>3/</u>	9,773	9,727	9,675	9,644	37,608	39,411	37,364	36,571

1/ Quarterly average includes dry cows, excludes, heifers not yet fresh.
2/ Excludes milk sucked by calves. 3/ Will not add due to rounding.

Milk Cows: Number of Operations by Size Groups, Selected States, and United States, 1992-93 1/ 2/

State	Operations Having					
	1-29 Head		30-49 Head		50-99 Head	
	1992	1993	1992	1993	1992	1993
Number						
AZ	390	390	0	0	0	0
CA	1,600	1,600	120	120	280	280
CO	1,100	1,100	50	50	110	110
FL	680	600	0	10	50	40
GA	600	600	50	50	150	150
ID	790	620	280	280	380	330
IL	690	670	690	590	1,200	1,120
IN	2,700	2,500	700	700	800	800
IA	2,200	1,600	2,000	1,700	1,900	1,850
KY	2,350	2,100	1,000	900	1,050	1,200
MD	350	320	250	210	490	480
MI	1,500	1,300	1,400	1,200	1,600	1,500
MN	3,500	3,300	5,500	5,400	4,200	4,000
MO	4,000	4,000	1,100	1,100	1,700	1,700
NM	1,080	970	0	0	10	10
NY	2,600	2,600	2,600	2,600	4,700	4,600
NC	460	460	80	80	260	260
OH	4,100	3,800	1,900	1,600	2,100	2,100
OR	810	780	80	90	210	200
PA	3,900	3,400	4,600	4,300	4,300	4,200
TN	1,700	1,600	440	440	750	610
TX	3,180	2,950	180	180	540	510
UT	740	660	120	100	310	290
VT	300	300	600	600	1,100	1,100
VA	1,230	1,150	210	200	570	570
WA	1,700	1,600	100	120	450	500
WI	7,100	6,300	10,900	10,300	10,600	10,800
Oth Sts	15,250	13,860	2,950	2,670	4,750	4,320
US	66,600	61,130	37,900	35,590	44,560	43,630

See footnotes at end of table.

--continued

Milk Cows: Number of Operations by Size Groups, Selected States, and United States, 1992-93 1/ 2/ (continued)

State	Operations Having			
	100-199 Head		200+ Head	
	1992 <u>3/</u>	1993	1992	1993
	Number			
AZ	110	10		100
CA	2,200	300		1,900
CO	240	110		130
FL	270	50		200
GA	400	250		150
ID	450	260		210
IL	420	380		40
IN	300	240		60
IA	500	400		50
KY	400	350		50
MD	310	230		60
MI	1,000	800		200
MN	800	730		70
MO	700	600		100
NM	110	10		110
NY	1,900	1,500		400
NC	400	300		100
OH	500	410		90
OR	400	240		190
PA	1,200	930		170
TN	510	450		100
TX	1,400	800		560
UT	330	220		130
VT	500	400		100
VA	490	370		110
WA	750	400		380
WI	2,400	2,300		300
Oth Sts	3,210	1,920		1,080
US	22,200	14,960		7,140

1/ An operation is any place having one or more head of milk cows on hand at any time during the year.

2/ Included in operations with cattle.

3/ These estimates are for 100+ head.

Milk Cows: Percent of Operations by Size Group, Selected States, and United States, 1992-93 1/

Inventory on Operations Having										
State	1-29 Head		30-49 Head		50-99 Head		100-199 Head		200+ Head	
	1992	1993	1992	1993	1992	1993	1992 <u>2/</u>	1993	1992	1993
	Percent									
AZ	0.5	0.5					99.5	1.5	98.0	
CA	0.2	0.2	0.4	0.4	1.7	1.7	97.7	3.8	93.9	
CO	1.9	2.0	2.0	1.8	11.7	10.0	84.4	20.0	66.2	
FL	0.6	0.4		0.2	1.7	1.1	97.7	3.9	94.4	
GA	1.4	1.5	1.5	1.5	9.8	9.8	87.3	32.3	54.9	
ID	2.2	2.2	6.5	6.5	13.5	10.8	77.8	20.0	60.5	
IL	3.7	4.3	16.4	15.0	48.2	48.4	31.7	26.9	5.4	
IN	15.9	13.3	17.2	16.8	40.7	38.4	26.2	19.6	11.9	
IA	11.2	9.7	25.9	25.0	41.3	42.3	21.6	18.7	4.3	
KY	8.9	8.1	21.6	20.0	38.4	41.1	31.1	22.7	8.1	
MD	5.0	4.0	11.0	9.0	34.0	36.0	50.0	31.0	20.0	
MI	4.7	4.7	14.1	12.9	33.8	32.4	47.4	30.9	19.1	
MN	9.5	9.6	32.9	32.9	40.9	40.9	16.7	13.9	2.7	
MO	6.6	6.5	15.2	15.2	39.1	39.1	39.1	29.6	9.6	
NM	1.5	1.2			0.5	0.4	98.0	0.8	97.6	
NY	3.7	3.4	13.2	13.4	41.1	39.1	42.0	26.1	18.0	
NC	1.0	1.0	3.1	3.2	19.8	20.0	76.1	44.2	31.6	
OH	14.3	14.3	19.1	19.0	42.2	42.2	24.4	17.8	6.7	
OR	3.0	2.0	3.0	3.0	15.0	14.0	79.0	30.0	51.0	
PA	7.1	7.1	25.3	25.2	42.2	42.3	25.4	17.9	7.5	
TN	7.9	7.9	10.0	11.1	29.5	26.8	52.6	37.9	16.3	
TX	1.1	1.1	1.8	1.8	10.8	10.8	86.3	27.1	59.2	
UT	2.6	1.8	5.3	4.2	23.7	21.7	68.4	28.9	43.4	
VT	1.8	1.8	12.0	12.0	41.9	41.9	44.3	27.5	16.8	
VA	3.3	3.3	5.6	5.6	29.6	29.6	61.5	38.5	23.0	
WA	2.0	2.4	1.6	2.0	11.9	13.9	84.5	23.9	57.8	
WI	7.7	6.5	28.7	27.7	42.5	43.1	21.1	17.8	4.9	
Oth Sts	6.4	6.4	12.0	12.0	31.0	31.0	50.6	19.3	31.3	
US	5.5	5.1	15.2	14.8	30.0	29.6	49.3	19.3	31.2	

1/ Percents reflect average distribution of various probability surveys conducted during the year but are primarily on beginning-of-year and mid-year surveys.
2/ These estimates are for 100+ head.

Milk Cows: Number of Operations by State and United States, 1992-93 1/

State	Operations with Milk Cows <u>2/</u>	
	1992	1993
	Number	
AL	900	600
AK	30	30
AZ	500	500
AR	1,900	1,800
CA	4,200	4,200
CO	1,500	1,500
CT	500	400
DE	150	150
FL	1,000	900
GA	1,200	1,200
HI	80	80
ID	1,900	1,700
IL	3,000	2,800
IN	4,500	4,300
IA	6,600	5,600
KS	2,000	1,700
KY	4,800	4,600
LA	1,700	1,700
ME	900	900
MD	1,400	1,300
MA	700	600
MI	5,500	5,000
MN	14,000	13,500
MS	1,200	1,100
MO	7,500	7,500
MT	1,600	1,300
NE	3,000	2,900
NV	300	300
NH	400	400
NJ	450	400
NM	1,200	1,100
NY	11,800	11,700
NC	1,200	1,200
ND	2,000	1,900
OH	8,600	8,000
OK	2,800	2,600
OR	1,500	1,500
PA	14,000	13,000
RI	50	40
SC	500	450
SD	3,000	2,800
TN	3,400	3,200
TX	5,300	5,000
UT	1,500	1,400
VT	2,500	2,500
VA	2,500	2,400
WA	3,000	3,000
WV	1,500	1,200
WI	31,000	30,000
WY	500	500
US	171,260	162,450

1/ An operation is any place having one or more head of milk cows on hand at any time during the year. 2/ Included in operations with cattle.

Milk Production: Percent of Production by Size Groups, Selected
States, and United States, 1993

State	1-29 Head	30-49 Head	50-99 Head	100-199 Head	200+Head
	Percent				
AZ	0.1			1.3	98.6
CA	0.1	0.2	0.8	7.5	91.4
CO	1.4	1.4	8.6	17.9	70.7
FL	0.2	0.1	1.0	3.7	95.0
GA	1.1	1.1	8.7	32.1	57.0
ID	2.0	5.0	9.0	19.0	65.0
IL	4.0	14.0	49.0	27.5	5.5
IN	11.8	15.6	39.5	20.4	12.7
IA	8.7	23.6	43.2	19.7	4.8
KY	6.5	20.0	40.1	24.6	8.8
MD	3.2	8.4	35.3	32.1	21.0
MI	3.5	11.2	31.2	32.9	21.2
MN	7.9	32.1	42.3	14.6	3.1
MO	4.7	14.2	39.3	31.3	10.5
NM	0.2		0.3	0.7	98.8
NY	2.5	11.8	37.7	27.9	20.1
NC	0.3	1.7	19.0	45.0	34.0
OH	20.0	23.0	37.0	14.0	6.0
OR	1.1	2.1	12.0	30.5	54.3
PA	5.5	23.5	42.7	19.9	8.4
TN	5.5	9.4	27.0	40.8	17.3
TX	0.3	1.5	9.2	24.6	64.4
UT	1.2	3.4	19.6	27.0	48.8
VT	1.4	10.5	40.8	28.0	19.3
VA	2.2	4.2	31.1	39.4	23.1
WA	1.5	1.6	13.8	23.8	59.3
WI	5.3	25.5	44.2	19.3	5.7
Oth Sts	6.4	12.0	31.0	19.3	31.3
US	3.9	13.1	27.2	19.6	36.2

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 0.6 percent. This means that chances are 2 out of 3 that the final estimate will not be above or below the current estimate of 9.66 million head by more than 0.6 percent, or about 58,000 head. Chances are 9 out of 10 that the difference will not exceed 1.1 percent, or about 106,000 head (the 90 percent confidence level).

Reliability of October-December Milk Estimates 1/

Item	Root Mean Square Error	90% Confidence Level		Head (000)	Difference Between First and Final Estimates <u>1/</u>			Number of Quarters	
		Percent			Average	Smallest	Largest	Above Final	Below Final
	- Percent -			Mil Lbs.			- Number -		
Milk Production	0.7	1.2	439	-168	-7	-565	8	2	
				----- 1,000 Head -----					
All Milk Cows	0.6	1.1	106	-46	-4	-126	10	0	

1/ Based on records for the past 10 October-December quarters.

The next "Milk Production" report will be released at 3 p.m. ET on March 15, 1994.

The United States Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, and marital or familial status. Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotope, etc.) should contact the USDA Office of Communications at (202) 720-5881 (voice) or (202) 720-7808 (TDD).

To file a complaint, write the Secretary of Agriculture, USDA, Washington, D.C., 20250, or call (202) 720-7327 (voice) or (202) 720-1127 (TDD). USDA is an equal employment opportunity employer.

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 two formats: 1-PMP-2 (this means you have TWO issues remaining in your subscription) or APR95 (expiration date is April 1995). 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"/> \$26.00	<input type="checkbox"/> \$50.00	<input type="checkbox"/> \$75.00
Foreign	<input type="checkbox"/> \$32.50	<input type="checkbox"/> \$62.50	<input type="checkbox"/> \$93.75

New subscribers:

Name: _____
 Address: _____
 City, State, Zip: _____
 Daytime phone: (____) _____

Renewals:

ATTACH MAILING LABEL HERE

Payment method:

- Bill me (domestic orders only). 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.**

