

Milk Production



**United States
Department of
Agriculture**

Washington, D.C.

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January Milk Production

Milk production in the 21 major States during January totaled 10.8 billion pounds, 1 percent more than production in these same States in January 1992. December revised production at 10.7 billion pounds was 2 percent above December 1991.

Production per cow in the 21 major States averaged 1,315 pounds for January, 24 pounds more than January 1992.

The number of cows on farms in the 21 major States was 8.22 million head, 79,000 head less than January 1992 and 28,000 less than December 1992.

During the October-December period, the 21 major States produced 31.4 billion pounds of milk, 84.4 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 12.8 billion pounds for January 1993.

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

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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>		
	1992	1993	1992	1993	1992	1993	1993 as % of 1992
	-----	1,000	-----	Pounds	-----	Million Pounds	Percent
Jan-Mar	9,863		3,852		37,989		
Apr-Jun	9,841		3,971		39,077		
Jul-Sep	9,826		3,818		37,515		
Oct-Dec	9,927		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 States, December 1991-92 1/

State	Milk Cows <u>1/</u>		Milk per Cow <u>2/</u>		Milk Production <u>2/</u>		
	1991	1992	1991	1992	1991	1992	1993 as % of 1992
	-----	1,000	-----	Pounds	-----	Million Pounds	Percent
CA	1,159	1,161	1,540	1,605	1,785	1,863	104
FL	179	180	1,240	1,270	222	229	103
ID	178	185	1,330	1,410	237	261	110
IL	189	182	1,230	1,240	232	226	97
IN	146	143	1,290	1,310	188	187	99
IA	302	305	1,090	1,190	329	363	110
KY	190	186	940	995	179	185	103
MD	102	100	1,215	1,230	124	123	99
MI	338	340	1,280	1,320	433	449	104
MN	675	660	1,210	1,255	817	828	101
MO	220	226	1,070	1,080	235	244	104
NY	755	755	1,270	1,255	959	948	99
NC	98	96	1,330	1,375	130	132	102
OH	330	315	1,160	1,220	383	384	100
PA	673	659	1,275	1,290	858	850	99
TN	196	190	910	940	178	179	101
TX	375	380	1,240	1,280	465	486	105
VT	163	167	1,275	1,245	208	208	100
VA	140	135	1,265	1,310	177	177	100
WA	238	254	1,590	1,605	378	408	108
WI	1,676	1,628	1,155	1,185	1,936	1,929	100
21 State:							
Total	8,322	8,247	1,256	1,292	10,453	10,659	102

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

2/ 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	8,219	1,291	1,315	10,715	10,804	101
Feb	8,278		1,238		10,251		
Mar	8,257		1,344		11,096		
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, January 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	1,160	1,161	1,540	1,570	1,786	1,823	102
FL	180	180	1,345	1,365	242	246	102
ID	177	184	1,360	1,380	241	254	105
IL	187	180	1,250	1,270	234	229	98
IN	146	143	1,320	1,300	193	186	96
IA	302	305	1,160	1,190	350	363	104
KY	187	184	980	1,040	183	191	104
MD	100	100	1,250	1,210	125	121	97
MI	338	340	1,330	1,350	450	459	102
MN	670	660	1,275	1,320	854	871	102
MO	224	225	1,105	1,080	248	243	98
NY	750	749	1,310	1,305	983	977	99
NC	98	95	1,375	1,410	135	134	99
OH	329	313	1,200	1,290	395	404	102
PA	669	656	1,310	1,280	876	840	96
TN	195	190	890	930	174	177	102
TX	375	380	1,280	1,330	480	505	105
VT	162	167	1,315	1,280	213	214	100
VA	140	134	1,295	1,345	181	180	99
WA	241	251	1,605	1,625	387	408	105
WI	1,668	1,622	1,190	1,220	1,985	1,979	100
21 State:							
Total	8,298	8,219	1,291	1,315	10,715	10,804	101

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

2/ Excludes milk sucked by calves.

Milk Cows and Production: United States, 1985-92

Year	Milk Cows <u>1/</u>	Production per Cow: <u>2/</u>		Milk Production <u>2/</u>
		Milk	Total	Total
	1,000	Pounds	Million Pounds	
1985	10,981	13,024	143,012	
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	14,642	148,284	
1991 <u>3/</u>	9,990	14,867	148,525	
1992 <u>3/</u>	9,839	15,423	151,747	

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

2/ Excludes milk sucked by calves.

3/ Revised.

Milk Cows and Production: By Month and Quarter, United States, 1991-92

Month	Milk Cows <u>1/</u>		Milk per Cow <u>2/</u>		Milk Production <u>2/</u>		1992 as % of 1991
	1991	1992	1991	1992	1991	1992	
	--- 1,000 ---		--- Pounds ---		Million Pounds		Percent
Jan	8,510	8,298	1,250	1,291	10,639	10,715	101
Feb	8,485	8,278	1,169	1,238	9,915	10,251	103
Mar	8,459	8,257	1,308	1,344	11,067	11,096	100
Jan-Mar	10,100	9,863	3,702	3,852	37,389	37,989	102
Apr	8,416	8,255	1,296	1,314	10,906	10,850	99
May	8,395	8,250	1,337	1,367	11,223	11,280	101
Jun	8,371	8,250	1,261	1,321	10,555	10,897	103
Apr-Jun	10,000	9,841	3,859	3,971	38,586	39,077	101
Jul	8,351	8,247	1,253	1,322	10,465	10,900	104
Aug	8,357	8,243	1,238	1,295	10,349	10,673	103
Sep	8,350	8,237	1,189	1,246	9,925	10,263	103
Jul-Sep	9,944	9,826	3,643	3,818	36,232	37,515	104
Oct	8,346	8,238	1,226	1,278	10,230	10,532	103
Nov	8,328	8,235	1,194	1,237	9,944	10,184	102
Dec	8,322	8,247	1,256	1,292	10,453	10,659	102
Oct-Dec	9,923	9,827	3,648	3,782	36,199	37,166	103
Annual	9,992	9,839	14,853	15,423	148,406	151,747	102

1/ Includes Dry Cows. Excludes Heifers Not Yet Fresh.

2/ Excludes Milk Sucked By Calves.

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

State	Milk Cows <u>1/</u>		Milk per Cow <u>2/</u>		Milk Production <u>2/</u>		
	1991	1992	1991	1992	1991	1992	1992/1991
	--- 1,000 ---		---- Pounds ----		- Million Pounds -		Percent
AL	41	41	12,707	12,268	521	503	97
AK	1.0	0.7	13,300	17,429	13.3	12.2	92
AZ	95	98	18,032	18,235	1,713	1,787	104
AR	67	65	11,687	12,108	783	787	101
CA	1,155	1,158	18,534	19,071	21,407	22,084	103
CO	77	80	17,338	17,700	1,335	1,416	106
CT	33	34	15,848	15,912	523	541	103
DE	9.2	9.4	14,130	15,213	130.0	143.0	110
FL	180	181	13,933	14,249	2,508	2,579	103
GA	107	102	13,523	14,882	1,447	1,518	105
HI	10.9	11.0	12,936	13,182	141.0	145.0	103
ID	178	183	16,399	17,148	2,919	3,138	108
IL	191	185	14,717	14,497	2,811	2,682	95
IN	148	144	15,439	15,993	2,285	2,303	101
IA	303	305	13,700	14,020	4,151	4,276	103
KS	97	89	12,680	13,708	1,230	1,220	99
KY	195	184	11,231	11,685	2,190	2,150	98
LA	80	80	11,675	12,000	934	960	103
ME	42	41	14,786	15,854	621	650	105
MD	103	99	13,777	14,586	1,419	1,444	102
MA	31	30	15,000	15,967	465	479	103
MI	341	339	15,413	15,920	5,256	5,397	103
MN	683	660	14,307	14,930	9,772	9,854	101
MS	61	60	12,098	12,600	738	756	102
MO	226	227	12,677	13,128	2,865	2,980	104
MT	24	23	13,750	14,217	330	327	99
NE	100	97	12,800	12,680	1,280	1,230	96
NV	19.3	20.0	17,668	17,650	341.0	353.0	104
NH	20	21	15,900	15,810	318	332	104
NJ	25	25	14,160	14,760	354	369	104
NM	98	111	19,561	19,568	1,917	2,172	113
NY	756	749	14,787	15,463	11,179	11,582	104
NC	99	97	15,424	15,577	1,527	1,511	99
ND	82	78	12,622	12,679	1,035	989	96
OH	337	324	13,932	14,475	4,695	4,690	100
OK	99	96	12,354	12,823	1,223	1,231	101
OR	100	102	16,590	16,784	1,659	1,712	103
PA	669	655	15,106	15,823	10,106	10,364	103
RI	2.3	2.3	14,957	14,478	34.4	33.3	97
SC	33	30	12,273	13,133	405	394	97
SD	136	130	12,309	12,769	1,674	1,660	99
TN	194	192	11,263	11,344	2,185	2,178	100
TX	380	376	14,258	14,867	5,418	5,590	103
UT	79	82	15,975	16,402	1,262	1,345	107
VT	164	164	14,683	15,305	2,408	2,510	104
VA	140	137	14,614	14,956	2,046	2,049	100
WA	237	249	18,814	19,422	4,459	4,836	108
WV	23	23	11,739	12,087	270	278	103
WI	1,714	1,646	14,040	14,643	24,065	24,103	100
WY	8.7	7.9	12,563	13,190	109.3	104.2	95
US <u>3/</u>	9,992	9,839	14,860	15,423	148,477	151,747	102

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, 1991 1/

State	Jan	Feb	Mar	Apr	May	Jun
			1,000			
CA	1,150	1,152	1,153	1,154	1,155	1,156
FL	184	184	185	182	181	178
ID	182	179	176	176	177	178
IL	193	195	193	193	193	191
IN	153	151	149	150	150	148
IA	302	302	302	302	303	303
KY	200	200	197	197	195	195
MD	108	106	104	103	102	102
MI	344	343	343	343	343	342
MN	690	690	690	685	685	680
MO	230	229	229	229	228	227
NY	768	768	765	755	751	749
NC	101	100	100	100	99	98
OH	340	339	338	337	337	337
PA	682	679	676	667	659	659
TN	194	194	194	193	194	192
TX	388	387	386	384	383	382
VT	164	164	165	163	164	163
VA	141	140	140	139	139	139
WA	239	236	236	235	235	237
WI	1,757	1,747	1,738	1,729	1,722	1,715
21 States	8,510	8,485	8,459	8,416	8,395	8,371

See footnotes on page 7.

Milk Cows: Number, by Month, State and United States,
1991 1/ (continued)

State	Jul	Aug	Sep	Oct	Nov	Dec	Annual Ave. <u>2</u> /
	1,000						
CA	1,156	1,157	1,157	1,157	1,158	1,159	1,155
FL	178	178	176	177	176	179	180
ID	178	178	178	178	178	178	178
IL	191	191	188	188	187	189	191
IN	146	146	145	144	144	146	148
IA	305	305	303	303	303	302	303
KY	193	193	192	191	191	190	195
MD	99	99	102	104	103	102	103
MI	340	340	340	340	340	338	341
MN	680	680	680	680	675	675	683
MO	226	225	224	224	220	220	226
NY	746	753	755	755	756	755	756
NC	97	97	97	98	98	98	99
OH	337	336	336	336	335	330	337
PA	658	664	670	672	670	673	669
TN	193	194	195	196	197	196	194
TX	379	377	375	374	374	375	380
VT	163	165	165	164	164	163	164
VA	139	139	139	140	140	140	140
WA	238	237	236	235	236	238	237
WI	1,709	1,703	1,697	1,690	1,683	1,676	1,714
21 States	8,351	8,357	8,350	8,346	8,328	8,322	8,391

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

2/ Average based on monthly totals.

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	306	307	307
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	749	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	1,656	1,647	1,645
21 States	8,298	8,278	8,257	8,255	8,250	8,250

See footnotes on page 9.

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

State	Jul	Aug	Sep	Oct	Nov	Dec	Annual Ave. <u>2</u> /
	1,000						
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	307	306	306	306	305	305	305
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	376	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	1,646
21 States	8,247	8,243	8,237	8,238	8,235	8,247	8,253

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, 1991 1/

State	Jan	Feb	Mar	Apr	May	Jun
	Pounds					
CA	1,535	1,430	1,585	1,555	1,620	1,560
FL	1,320	1,230	1,340	1,295	1,250	1,130
ID	1,300	1,180	1,350	1,350	1,430	1,420
IL	1,220	1,160	1,285	1,270	1,280	1,220
IN	1,270	1,185	1,365	1,355	1,415	1,290
IA	1,170	1,150	1,205	1,160	1,165	1,140
KY	975	880	1,005	1,030	1,030	900
MD	1,120	1,065	1,220	1,205	1,245	1,120
MI	1,285	1,195	1,320	1,290	1,330	1,300
MN	1,260	1,170	1,305	1,275	1,300	1,210
MO	1,065	975	1,120	1,165	1,160	1,040
NY	1,230	1,120	1,270	1,270	1,330	1,260
NC	1,380	1,280	1,420	1,390	1,365	1,210
OH	1,165	1,100	1,215	1,220	1,280	1,170
PA	1,225	1,190	1,310	1,310	1,345	1,270
TN	900	890	970	1,020	1,010	950
TX	1,240	1,170	1,345	1,310	1,295	1,160
VT	1,250	1,140	1,265	1,255	1,305	1,240
VA	1,275	1,185	1,305	1,300	1,290	1,165
WA	1,520	1,410	1,580	1,575	1,660	1,590
WI	1,150	1,070	1,220	1,210	1,275	1,210
21 States	1,250	1,169	1,308	1,296	1,337	1,261

See footnotes on page 11.

Milk: Milk Produced per Cow by Month, State,
and United States, 1991 ^{1/} (continued)

State	Jul	Aug	Sep	Oct	Nov	Dec	Annual Average
	Pounds						
CA	1,585	1,595	1,500	1,530	1,495	1,540	18,534
FL	1,050	990	940	1,040	1,100	1,240	13,933
ID	1,480	1,480	1,400	1,380	1,300	1,330	16,399
IL	1,215	1,230	1,190	1,230	1,190	1,230	14,717
IN	1,275	1,270	1,220	1,290	1,250	1,290	15,439
IA	1,130	1,110	1,110	1,150	1,130	1,090	13,700
KY	900	905	875	920	885	940	11,231
MD	1,150	1,160	1,080	1,115	1,105	1,215	13,777
MI	1,330	1,310	1,265	1,275	1,220	1,280	15,413
MN	1,155	1,115	1,070	1,125	1,120	1,210	14,307
MO	1,030	1,015	970	1,045	1,025	1,070	12,677
NY	1,240	1,220	1,180	1,210	1,180	1,270	14,787
NC	1,200	1,190	1,195	1,270	1,270	1,330	15,424
OH	1,165	1,160	1,095	1,130	1,090	1,160	13,932
PA	1,250	1,230	1,200	1,260	1,240	1,275	15,106
TN	930	930	920	930	890	910	11,263
TX	1,105	1,065	1,040	1,135	1,130	1,240	14,258
VT	1,215	1,190	1,165	1,205	1,185	1,275	14,683
VA	1,150	1,175	1,145	1,205	1,195	1,265	14,614
WA	1,635	1,620	1,560	1,590	1,525	1,590	18,814
WI	1,205	1,185	1,130	1,140	1,090	1,155	14,040
21 States	1,253	1,238	1,189	1,226	1,194	1,256	14,977

^{1/} Excludes milk sucked by calves.

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	1,285	1,265	1,295	1,205
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	1,105	1,050	1,160	1,170	1,205	1,100
NY	1,310	1,245	1,350	1,330	1,395	1,340
NC	1,375	1,315	1,400	1,350	1,340	1,215
OH	1,200	1,140	1,230	1,205	1,275	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	1,314	1,367	1,321

See footnotes on page 13.

Milk: Milk Produced per Cow by Month, State,
and United States, 1992 1/ (continued)

State	Jul	Aug	Sep	Oct	Nov	Dec	Annual Average
	Pounds						
CA	1,635	1,590	1,570	1,620	1,565	1,605	19,071
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	1,320	1,280	1,330	1,270	1,310	15,993
IA	1,170	1,160	1,150	1,180	1,180	1,190	14,020
KY	945	955	940	985	935	995	11,685
MD	1,175	1,190	1,130	1,180	1,180	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	1,080	1,070	1,015	1,065	1,035	1,080	13,128
NY	1,320	1,285	1,225	1,240	1,175	1,255	15,463
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	14,475
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	1,117	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	14,643
21 States	1,322	1,295	1,246	1,278	1,237	1,292	15,546

1/ Excludes milk sucked by calves.

Milk Production: Total by Month, State,
and United States, 1991 1/

State	Jan	Feb	Mar	Apr	May	Jun
	Million Pounds					
CA	1,765	1,647	1,828	1,794	1,871	1,803
FL	243	226	248	236	226	201
ID	237	211	238	238	253	253
IL	235	226	248	245	247	233
IN	194	179	203	203	212	191
IA	353	347	364	350	353	345
KY	195	176	198	203	201	176
MD	121	113	127	124	127	114
MI	442	410	453	442	456	445
MN	869	807	900	873	891	823
MO	245	223	257	267	264	236
NY	945	860	972	959	999	944
NC	139	128	142	139	135	119
OH	396	373	411	411	431	394
PA	835	808	886	874	886	837
TN	175	173	188	197	196	182
TX	481	453	519	503	496	443
VT	205	187	209	205	214	202
VA	180	166	183	181	179	162
WA	363	333	373	370	390	377
WI	2,021	1,869	2,120	2,092	2,196	2,075
21 States	10,639	9,915	11,067	10,906	11,223	10,555

See footnotes on page 15.

Milk Production: Total by Month, State,
and United States, 1991 1/ (continued)

State	Jul	Aug	Sep	Oct	Nov	Dec	Annual Total
Million Pounds							
CA	1,832	1,845	1,736	1,770	1,731	1,785	21,407
FL	187	176	165	184	194	222	2,508
ID	263	263	249	246	231	237	2,919
IL	232	235	224	231	223	232	2,811
IN	186	186	177	186	180	188	2,285
IA	345	339	336	348	342	329	4,151
KY	174	175	168	176	169	179	2,190
MD	114	115	110	116	114	124	1,419
MI	452	445	430	434	414	433	5,256
MN	785	758	728	765	756	817	9,772
MO	233	228	217	235	225	235	2,865
NY	925	919	891	914	892	959	11,179
NC	116	115	116	124	124	130	1,527
OH	393	390	368	380	365	383	4,695
PA	823	817	804	847	831	858	10,106
TN	180	180	179	182	175	178	2,185
TX	419	402	390	424	423	465	5,418
VT	198	196	192	198	194	208	2,408
VA	160	163	159	169	167	177	2,046
WA	389	384	368	374	360	378	4,459
WI	2,059	2,018	1,918	1,927	1,834	1,936	24,065
21 States	10,465	10,349	9,925	10,230	9,944	10,453	125,671

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	352	356	350
KY	183	175	187	184	190	171
MD	125	119	126	124	127	118
MI	450	429	460	443	463	458
MN	854	817	874	842	871	845
MO	248	236	261	264	275	252
NY	983	928	1,011	988	1,032	998
NC	135	129	137	131	130	117
OH	395	376	405	396	419	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	10,715	10,251	11,096	10,850	11,280	10,897

See footnotes on page 17.

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

State	Jul	Aug	Sep	Oct	Nov	Dec	Annual Total
Million Pounds							
CA	1,892	1,840	1,818	1,878	1,815	1,863	22,084
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	193	184	192	182	187	2,303
IA	359	355	352	361	360	363	4,276
KY	171	176	173	181	174	185	2,150
MD	115	118	113	118	118	123	1,444
MI	466	459	445	447	428	449	5,397
MN	835	789	750	779	770	828	9,854
MO	247	245	231	243	234	244	2,980
NY	986	964	925	934	885	948	11,582
NC	114	116	118	126	126	132	1,511
OH	402	388	376	382	362	384	4,690
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	10,673	10,263	10,532	10,184	10,659	128,300

1/ Excludes milk sucked by calves.

Milk Cows and Milk Production: Number and Total Produced
by Quarter, State, and United States, 1991

State	Milk Cows ^{1/}				Milk Production ^{2/}			
	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
	1,000 Head				Million Pounds			
AL	42	41	40	42	148	137	107	129
AK	1.1	1.0	0.9	0.8	3.65	3.71	3.11	2.83
AZ	96	94	93	96	445	442	385	441
AR	67	67	67	66	204	208	185	186
CA	1,152	1,155	1,157	1,158	5,240	5,468	5,413	5,286
CO	77	78	77	77	325	345	333	332
CT	33	33	33	33	133	134	126	130
DE	9.1	9.2	9.2	9.4	34.9	33.4	29.4	32.3
FL	184	180	177	177	717	663	528	600
GA	112	108	104	104	412	372	302	361
HI	11.0	10.9	10.8	10.7	35.7	37.8	34.8	32.7
ID	179	177	178	178	686	744	775	714
IL	194	192	190	188	709	725	691	686
IN	151	149	146	145	576	606	549	554
IA	302	303	304	303	1,064	1,048	1,020	1,019
KS	98	98	97	96	315	315	295	305
KY	199	196	193	191	569	580	517	524
LA	81	80	79	79	265	245	200	224
ME	41	42	42	41	153	159	156	153
MD	106	102	100	103	361	365	339	348
MA	31	31	30	30	120	120	112	113
MI	343	343	340	339	1,305	1,343	1,327	1,281
MN	690	683	680	677	2,576	2,587	2,271	2,338
MS	63	62	60	60	207	197	159	175
MO	229	228	225	221	725	767	678	695
MT	24	24	24	24	81	85	83	81
NE	102	100	99	99	319	325	320	316
NV	20.0	19.0	19.0	19.0	80.0	88.0	87.0	86.0
NH	20	20	20	21	79	80	77	82
NJ	25	25	25	25	91	92	85	86
NM	93	98	101	101	422	493	500	502
NY	767	752	751	755	2,777	2,902	2,735	2,700
NC	100	99	97	98	409	393	347	378
ND	85	84	81	79	264	275	255	241
OH	339	337	336	334	1,180	1,236	1,151	1,128
OK	99	98	99	99	307	308	304	304
OR	100	100	100	100	391	430	429	409
PA	679	662	664	672	2,529	2,597	2,444	2,536
RI	2.3	2.3	2.2	2.2	8.9	9.1	8.2	8.2
SC	34	32	31	33	114	102	87	102
SD	137	137	136	134	416	444	409	405
TN	194	193	194	196	536	575	539	535
TX	387	383	377	374	1,453	1,442	1,211	1,312
UT	79	80	80	78	298	325	327	312
VT	164	163	164	164	601	621	586	600
VA	140	139	139	140	529	522	482	513
WA	237	236	237	236	1,069	1,137	1,141	1,112
WV	24	23	23	23	68	69	67	66
WI	1,747	1,722	1,703	1,683	6,010	6,363	5,995	5,697
WY	9.0	8.6	8.6	8.5	27.9	27.5	27.5	26.4
US ^{3/}	10,100	10,000	9,944	9,923	37,389	38,586	36,232	36,199

^{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 Milk Production: Number and Total Milk Produced
by Quarter, by 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	5,550	5,556
CO	79	80	79	80	342	360	357	357
CT	33	34	34	35	138	139	132	132
DE	9.2	9.1	9.5	9.8	35.9	35.5	35.4	36.2
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	573	561
IA	302	307	306	305	1,068	1,058	1,066	1,084
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	160	167	165	158
MD	99	98	99	100	370	369	346	359
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	745	791	723	721
MT	23	23	23	23	81	84	82	80
NE	98	97	96	97	305	312	307	306
NV	20.0	20.0	20.0	20.0	87.0	90.0	89.0	87.0
NH	21	21	21	20	86	86	80	80
NJ	25	25	25	25	92	91	91	95
NM	104	108	113	120	506	551	557	558
NY	748	743	751	754	2,922	3,018	2,875	2,767
NC	98	97	96	96	401	378	348	384
ND	78	79	77	76	246	261	246	236
OH	329	329	323	316	1,176	1,220	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	1,649	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>	9,863	9,841	9,826	9,827	37,989	39,077	37,515	37,166

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

Number of Operations with Milk Cows 1991-92 1/

State	Operations with Milk Cows	
	1991	1992
	Number	
AL	1,100	900
AK	30	30
AZ	500	500
AR	2,000	1,900
CA	4,200	4,200
CO	1,600	1,500
CT	500	500
DE	160	150
FL	1,000	1,000
GA	1,400	1,200
HI	80	80
ID	1,900	1,900
IL	3,000	3,000
IN	4,700	4,500
IA	7,000	6,600
KS	2,300	2,300
KY	5,500	4,800
LA	1,800	1,700
ME	900	900
MD	1,600	1,400
MA	700	700
MI	6,000	5,500
MN	15,000	14,000
MS	1,300	1,100
MO	7,500	7,500
MT	1,800	1,600
NE	3,200	3,000
NV	300	300
NH	400	400
NJ	450	450
NM	1,300	1,300
NY	12,200	11,800
NC	1,500	1,200
ND	2,100	2,000
OH	8,900	8,600
OK	3,000	2,800
OR	1,900	1,500
PA	14,500	14,000
RI	50	50
SC	800	500
SD	3,300	3,000
TN	4,000	3,400
TX	5,300	5,300
UT	1,500	1,500
VT	2,600	2,500
VA	2,800	2,500
WA	3,000	3,000
WV	2,000	1,500
WI	32,000	31,000
WY	600	500
US	181,270	171,560

1/ An operation is any place having one or more milk cows on hand during year.

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 7300 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 9.84 million head by more than 0.6 percent, or about 59,000 head. Chances are 9 out of 10 that the difference will not exceed 1.1 percent, or about 108,000 head (the 90 percent confidence level).

Reliability of October-December 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	0.7	1.2	448	-132	0	-565	7	2
			----- 1,000 Head -----					
All Milk Cows	0.6	1.1	108	-45	0	-126	9	0

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

The next "Milk Production" report will be released at 3:00 p.m. ET on March 15, 1993 .

