

Milk Production



USDA
Washington, D.C.

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September Milk Production Down 1 Percent

Milk production in the 22 major States during September totaled 10.7 billion pounds, 1 percent below production in these same States in September 1995. August revised production, at 11.0 billion pounds was 1 percent less than August 1995. On a daily basis, milk production has been below 1995 levels every month this year.

Production per cow in the 22 major States averaged 1,341 pounds for September, 10 pounds above September 1995.

The number of cows on farms in the 22 major States was 7.96 million head, 100,000 head less than September 1995 and 8,000 head less than August 1996. This is the thirteenth consecutive month of decline.

During the July-September period, the 22 major States produced 32.8 billion pounds of milk, 86.7 percent of the U.S. production. If the remaining 28 States not surveyed monthly followed the same pattern as the 22 States, the U.S. production would be 12.8 billion pounds for July 1996, 12.7 billion pounds for August 1996, 12.3 billion pounds for September 1996.

U.S. July-September Milk Production Down 1 Percent

The quarterly production of milk for the U.S. was 37.8 billion, 1 percent below the July-September period last year. The average number of milk cows in the U.S. during the July-September quarter was 9.35 million head 120,000 head less than the same period last year.

Grain and Other Concentrates

Grain and other concentrates fed to milk cows on October 1, 1996, averaged 18.0 pounds per cow, 0.4 pound less than October 1, 1995.

Value of Grain and Other Concentrates

The value of grain and other concentrates fed to cows on October 1, averaged \$9.53 per hundredweight, \$1.56 more than October 1, 1995.

Note:

NASS is planning to change the States that are included in the monthly milk production estimating program starting January 1997. The last major change was in 1986. We plan to drop Maryland, North Carolina, and Tennessee while adding Arizona.

Historic monthly estimates have been created for Arizona back to 1994. Therefore, data users will have a comparable data set for 1994, 1995, and 1996 for the 20 State monthly total. The 20 States in the monthly estimating program account for 85 percent of the U.S. milk production.

Milk Cows and Production: By Quarter, United States, 1995-96

Quarter	Milk Cows 1/		Milk per Cow 2/		Milk Production 2/		
	1995	1996	1995	1996	1995	1996	1996 as % of 1995
	---- 1,000 ----		Pounds		Million Pounds		Percent
Jan-Mar	9,470	9,402	4,112	4,160	38,941	39,111	100
Apr-Jun	9,477	9,375	4,276	4,236	40,520	39,706	98
Jul-Sep	9,465	9,345	4,049	4,046	38,325	37,813	99
Oct-Dec	9,432		4,014		37,857		
Annual	9,461		16,451		155,644		

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

2/ Excludes milk sucked by calves.

Milk Cows and Production: By Month, 22 Selected States, 1995-96

Month	Milk Cows 1/		Milk per Cow 2/		Milk Production 2/		
	1995	1996	1995	1996	1995	1996	1996 as % of 1995
	---- 1,000 ----		Pounds		Million Pounds		Percent
Jan	8,046	8,026	1,404	1,406	11,296	11,285	100
Feb	8,050	8,010	1,295	1,338	10,423	10,719	103
Mar	8,061	7,998	1,453	1,459	11,709	11,671	100
Apr	8,058	7,988	1,427	1,434	11,501	11,451	100
May	8,056	7,987	1,484	1,470	11,959	11,740	98
Jun	8,066	7,984	1,421	1,387	11,465	11,075	97
Jul	8,062	7,977	1,414	1,397	11,397	11,142	98
Aug	8,062	7,969	1,375	1,377	11,086	10,970	99
Sep	8,061	7,961	1,331	1,341	10,729	10,675	99
Oct	8,050		1,364		10,978		
Nov	8,043		1,320		10,616		
Dec	8,034		1,380		11,088		
Annual	8,054		16,668		134,247		

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

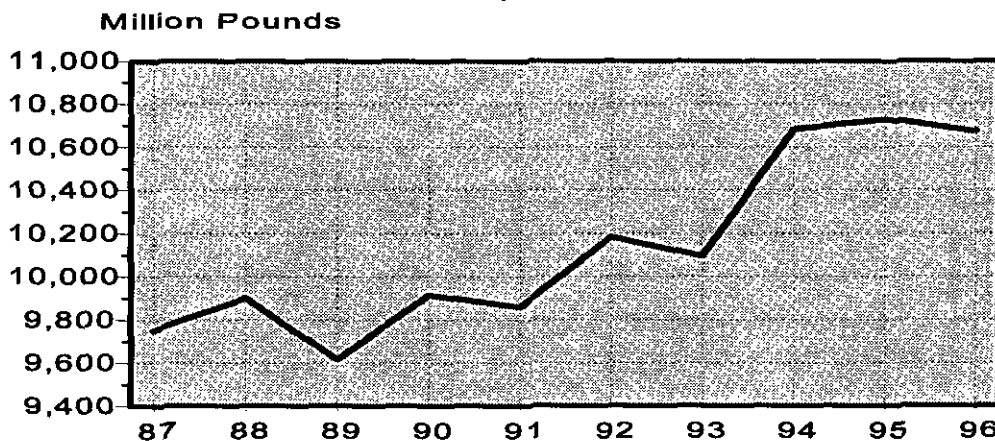
2/ Excludes milk sucked by calves.

Milk Cows and Production: By State, September 1995-96

State	Milk Cows 1/		Milk per Cow 2/		Milk Production 2/		1996 as % of 1995
	1995	1996	1995	1996	1995	1996	
	---- 1,000 ----		Pounds		Million Pounds		Percent
CA	1,256	1,264	1,645	1,680	2,066	2,124	103
FL	162	155	995	1,075	161	167	104
ID	238	262	1,500	1,550	357	406	114
IL	162	158	1,260	1,290	204	204	100
IN	143	140	1,250	1,250	179	175	98
IA	250	250	1,310	1,250	328	313	95
KY	161	151	980	955	158	144	91
MD	92	85	1,110	1,190	102	101	99
MI	326	326	1,375	1,365	448	445	99
MN	600	600	1,220	1,210	732	726	99
MO	187	175	1,090	1,055	204	185	91
NM	197	195	1,470	1,540	290	300	103
NY	702	703	1,350	1,330	948	935	99
NC	86	80	1,220	1,240	105	99	94
OH	288	285	1,260	1,230	363	351	97
PA	646	642	1,330	1,305	859	838	98
TN	124	111	1,070	1,040	133	115	86
TX	401	395	1,095	1,095	439	433	99
VT	158	158	1,315	1,315	208	208	100
VA	129	126	1,200	1,170	155	147	95
WA	268	265	1,620	1,650	434	437	101
WI	1,485	1,435	1,250	1,270	1,856	1,822	98
22 State:							
Total	8,061	7,961	1,331	1,341	10,729	10,675	99

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

September Milk Production, 1987-1996
 22 States 1/



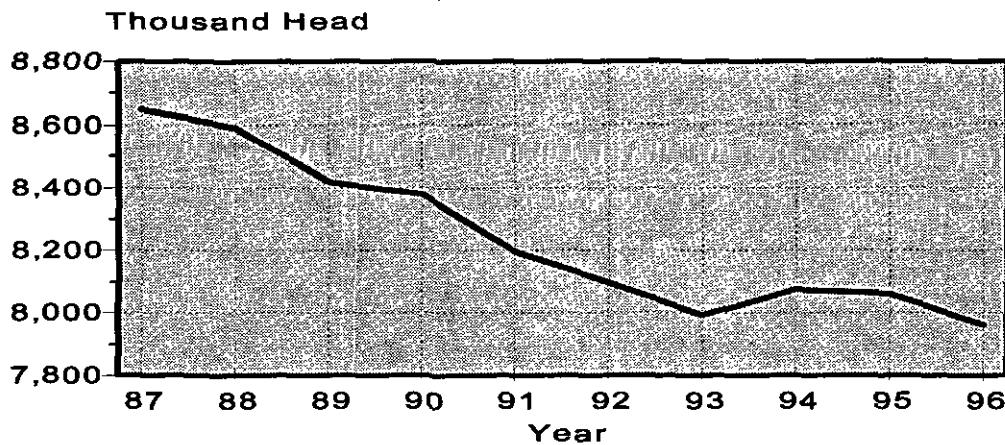
1/ Includes New Mexico beginning in 1994.

Milk Cows and Production: By State, August 1995-96 1/

State	Milk Cows 2/		Milk per Cow 3/		Milk Production 3/		1996 as % of 1995
	1995	1996	1995	1996	1995	1996	
	---- 1,000 ----		Pounds		Million Pounds		Percent
CA	1,255	1,263	1,715	1,690	2,152	2,134	99
FL	162	156	1,070	1,070	173	167	97
ID	237	260	1,580	1,630	374	424	113
IL	162	158	1,270	1,300	206	205	100
IN	143	140	1,260	1,260	180	176	98
IA	250	250	1,350	1,275	338	319	94
KY	161	151	995	965	160	146	91
MD	92	86	1,120	1,255	103	108	105
MI	326	327	1,425	1,405	465	459	99
MN	600	600	1,270	1,280	762	768	101
MO	187	175	1,105	1,085	207	190	92
NM	198	196	1,545	1,585	306	311	102
NY	700	703	1,395	1,370	977	963	99
NC	86	81	1,245	1,245	107	101	94
OH	289	285	1,275	1,240	368	353	96
PA	643	641	1,345	1,360	865	872	101
TN	124	112	1,050	1,060	130	119	92
TX	402	397	1,115	1,135	448	451	101
VT	158	158	1,355	1,360	214	215	100
VA	129	126	1,195	1,150	154	145	94
WA	270	264	1,715	1,735	463	458	99
WI	1,488	1,440	1,300	1,310	1,934	1,886	98
22 State:							
Total	8,062	7,969	1,375	1,377	11,086	10,970	99

1/ 1996 revised. 2/ Includes dry cows, excludes heifers not yet fresh.
3/ Excludes milk sucked by calves.

September Milk Cows, 1987-1996
22 States 1/



1/ Includes New Mexico beginning in 1994.

Milk Cows and Production: By State and United States
Revised April-June 1995-1996

State	Apr-Jun Milk Cows 1/		Apr-Jun Milk Production 2/		1996
	1995	1996	1995	1996	as % of 1995
	---- 1,000 ----		-- Million Pounds --		Percent
AL	34	32	131	114	87
AK	0.7	0.8	2.98	3.10	104
AZ	115	119	597	638	107
AR	61	58	195	174	89
CA	1,253	1,262	6,478	6,536	101
CO	83	84	391	413	106
CT	32	31	134	128	96
DE	10	10	37.7	38.6	102
FL	163	157	633	629	99
GA	101	96	420	379	90
HI	10.6	9.3	39.5	34.6	88
ID	229	250	1,050	1,162	111
IL	163	160	666	656	98
IN	144	140	575	556	97
IA	251	249	1,038	971	94
KS	81	83	305	300	98
KY	163	155	544	480	88
LA	79	78	243	225	93
ME	40	40	165	166	101
MD	93	87	353	334	95
MA	28	27	114	112	98
MI	326	326	1,439	1,406	98
MN	597	597	2,485	2,440	98
MS	56	52	195	176	90
MO	193	182	735	661	90
MT	21	20	81	77	95
NE	74	69	276	258	93
NV	24	25	110.4	117.5	106
NH	20	19	84	85	101
NJ	23	23	83	77	93
NM	190	194	942	975	104
NY	704	702	3,012	2,985	99
NC	87	83	376	346	92
ND	65	63	221	214	97
OH	289	285	1,210	1,163	96
OK	98	98	333	330	99
OR	98	93	436	415	95
PA	639	643	2,741	2,736	100
RI	2.2	2	8.5	7.9	93
SC	27	26	104	98	94
SD	118	112	422	377	89
TN	129	115	468	406	87
TX	401	400	1,617	1,640	101
UT	88	92	378	397	105
VT	156	156	654	648	99
VA	129	126	506	451	89
WA	267	262	1,367	1,342	98
WV	21	20	67	64	96
WI	1,494	1,456	6,036	5,743	95
WY	6.1	6.1	21.4	21.7	101
US 3/	9,477	9,375	40,520	39,706	98

- 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 July-September 1995-96

State	Jul-Sep Milk Cows 1/		Jul-Sep Milk Production 2/		1996
	1995	1996	1995	1996	as % of 1995
	---- 1,000 ----		-- Million Pounds --		Percent
AL	33	31	101	91	90
AK	0.7	0.8	3.05	3.56	117
AZ	114	119	488	515	106
AR	60	56	174	162	93
CA	1,255	1,263	6,400	6,441	101
CO	82	84	385	415	108
CT	31	30	126	121	96
DE	10	10	32.9	33.4	102
FL	162	156	518	513	99
GA	100	97	339	322	95
HI	10.2	9.3	34.5	32.4	94
ID	236	260	1,103	1,251	113
IL	162	158	625	619	99
IN	143	140	546	529	97
IA	250	250	1,009	955	95
KS	82	80	275	280	102
KY	162	151	487	436	90
LA	79	77	194	177	91
ME	40	40	163	164	101
MD	92	86	311	317	102
MA	28	27	112	109	97
MI	326	327	1,394	1,365	98
MN	600	600	2,289	2,289	100
MS	54	50	153	142	93
MO	188	176	625	568	91
MT	21	20	80	78	98
NE	74	69	274	255	93
NV	23	25.5	105.8	119.9	113
NH	20	18	81	78	96
NJ	23	23	77	71	92
NM	198	196	910	926	102
NY	701	703	2,916	2,875	99
NC	86	81	326	302	93
ND	64	62	212	198	93
OH	289	285	1,118	1,073	96
OK	96	96	317	300	95
OR	97	93	424	404	95
PA	643	642	2,604	2,594	100
RI	2.1	1.9	7.9	7.3	92
SC	26	26	85	85	100
SD	118	112	404	370	92
TN	124	112	401	354	88
TX	402	397	1,365	1,339	98
UT	88	92	379	410	108
VT	158	158	637	633	99
VA	129	126	465	434	93
WA	269	264	1,361	1,351	99
WV	21	20	65	60	92
WI	1,488	1,440	5,802	5,623	97
WY	6	6.2	21	22.3	106
U S 3/	9,465	9,345	38,325	37,813	99

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, October 1, 1995-96

State	: Grain and Other Concentrates : Value per 100 Pounds of Concentrate		: Fed Daily per Milk Cow : Ration Fed to Milk Cows	
	: 1995	: 1996	: 1995	: 1996
	: Pounds		: Dollars	
AL	18.6	16.7	8.40	10.50
AK	19.5	19.5	13.80	14.50
AZ	21.6	21.0	7.80	8.70
AR	17.5	17.7	8.20	10.10
CA	20.5	20.0	8.00	9.00
CO	22.5	20.5	7.20	9.50
CT	17.0	17.5	9.10	11.55
DE	16.3	13.2	8.80	9.70
FL	24.0	25.0	7.80	8.40
GA	22.9	22.0	7.90	9.90
ID	21.0	21.5	7.30	8.30
IL	17.1	16.1	7.90	9.15
IN	17.0	16.6	7.60	10.35
IA	16.4	17.2	6.50	9.90
KS	19.0	18.0	7.50	10.80
KY	16.4	16.1	8.65	10.50
LA	19.0	18.5	8.35	10.70
ME	17.0	15.5	8.90	11.60
MD	14.4	13.0	8.35	10.20
MA	15.5	16.0	8.95	11.65
MI	18.5	18.5	7.30	8.75
MN	17.3	15.7	7.80	9.00
MS	17.4	17.6	8.20	9.80
MO	18.5	17.0	8.00	10.00
MT	16.2	16.5	7.25	8.40
NE	16.5	16.2	7.30	8.30
NV	21.0	21.0	8.20	10.50
NH	16.0	17.0	8.80	11.20
NJ	14.9	14.5	8.60	12.60
NM	26.0	26.0	6.60	7.80
NY	15.3	14.8	9.00	11.70
NC	17.5	17.7	8.95	10.90
ND	16.5	15.0	6.30	7.10
OH	16.3	17.5	8.10	10.10
OK	18.0	18.8	8.40	10.00
OR	20.0	18.6	9.30	10.50
PA	16.0	16.2	9.80	11.00
RI	16.0	15.0	9.05	11.00
SC	20.0	22.0	8.00	9.65
SD	17.0	16.5	6.75	8.20
TN	16.0	17.0	9.00	11.10
TX	22.2	20.1	7.90	9.40
UT	16.9	16.4	7.70	9.20
VT	16.0	15.0	8.90	11.40
VA	16.0	14.5	8.90	10.10
WA	20.0	20.0	8.20	9.65
WV	14.0	14.0	9.05	10.80
WI	17.1	16.0	7.20	8.70
WY	13.0	13.4	6.50	7.80
US	18.4	18.0	7.97	9.53

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, 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 1.3 percent. This means that chances are 2 out of 3 that the final July-September estimate will not be above or below the current estimate of 9.35 million head by more than 1.3 percent, or about 121,000 head. Chances are 9 out of 10 that the difference will not exceed 2.4 percent, or about 224,000 head (the 90 percent confidence level).

Reliability of July-September Milk Estimates 1/

Item	Root Mean Square Error	90% Confidence Level	Difference Between First and Final Estimates 1/				Number of Quarters	
			Average	Smallest	Largest	First Above Final	First Below Final	
	- Percent -		----- Mil Lbs. -----				- Number -	
Milk Production	0.9	1.6	605	286	157	538	10	0
			----- 1,000 Head -----					
All Milk Cows	1.3	2.4	224	117	15	179	10	0

1/ Based on records for the past 10 July-September quarters.

The next **"Milk Production"** report will be released at 3 P.M. ET on November 14, 1996.

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You are invited to a *public meeting* on October 21 in Chicago, Illinois, to comment on USDA statistics, market reports, and economic information. Suggestions are invited on data and reports produced by USDA's National Agricultural Statistics Service, Economic Research Service, World Agricultural Outlook Board, Foreign Agricultural Service, and Agricultural Marketing Service. Officials from each agency will be present at the meeting to discuss current data programs and possible changes.

Written comments are also welcome. Direct comments or questions to Rich Allen, USDA-NASS, Room 4117 South Building, Washington, DC 20250-2000. Phone (202) 720-4333, fax (202) 720-9013, or E-mail rallen@nass.usda.gov.

Data User Feedback Forum □ October 21, 1996 □ 12:30-5:00 p.m.

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