Milk Production



United States Department of Agriculture

Washington, D.C.

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September Milk Production up 3 Percent

Milk production in the 21 major States during September totaled 10.5 billion pounds, 3 percent above production in these same States in September 1993. August revised production, at 10.8 billion pounds, was 2 percent more than August 1993.

Production per cow in the 21 major States averaged 1,301 pounds for September. 48 pounds above September 1993.

The number of cows on farms in the 21 major States was 8.04 million head, 54,000 head less than September 1993 but 2,000 head more than August 1994.

During the July-September period, the 21 major States produced 32.3 billion pounds of milk, 84.1 percent of the U.S. production. If the remaining 29 States not surveyed monthly followed the same pattern as the 21 States, the U.S. production would be 13.1 billion pounds for July, 12.9 billion pounds for August, and 12.4 billion pounds for September.

U.S. July-September Milk Up 3 Percent

The quarterly production of milk for the U.S. was 38.4 billion. 3 percent above the July-September period last year. The average number of milk cows in the U.S. during the July-September quarter was 9.66 million head 19.000 head less than the same period last year.

Grain and Other Concentrates

Grain and other concentrates fed to milk cows on October 1, 1994, averaged 18.7 pounds per cow, 0.9 pound more than October 1, 1993.

Value of Grain and Other Concentrates

The value of grain and other concentrates fed to cows on October 1, averaged \$7.87 per hundredweight, \$0.05 less than October 1, 1993.

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
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	: Milk Co	ows $1/$:	Milk per	Cow <u>2</u> /	: Milk	Production	2/
Quarter	1993	1994	1993 :	1994	: : 1993	: 1994 :	A C
	1,	000	Poun	ds	Million	Pounds	Percent
Jan-Mar Apr-Jun Jul-Sep Oct-Dec	9,727 9,675	9.612 9.641 9.656	3.848 4.052 3.862 3.792	3.921 4.146 3.975	37.608 39.411 37.364 36.571	37.692 39.973 38.378	100 101 103
Annual :	9,705		15.554		150,954		

 $[\]frac{1}{2}$ Includes dry cows. Excludes heifers not yet fresh. Excludes milk sucked by calves.

Milk Cows and Production: By Month, 21 Selected States, 1993-94

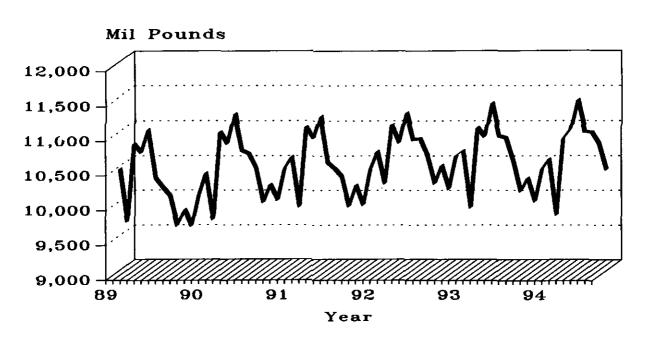
	: Milk (Cows <u>1</u> / :	Milk per	Cow <u>2</u> /	: Milk	Productio	n <u>2</u> /
Month	1993	: : 1994 :	1993	1994	: : 1993	: 1994 :	: 1994 as : % of : 1993
*	:	1,000	Poun	ds	Million	Pounds	Percent
Jan Feb Mar Apr Jun Jug Oct Noc Dec	8.219 8.193 8.173 8.148 8.139 8.130 8.110 8.098 8.069 8.065 8.054	8.042 8.018 8,005 8,014 8.021 8,038 8.030 8,034 8.036	1.305 1,209 1.353 1.341 1.402 1.346 1.346 1.306 1.253 1.280 1.239	1.323 1.222 1.384 1.377 1.428 1.368 1.369 1.348 1.301	10.728 9.908 11.060 10.927 11.410 10.940 10.573 10.573 10.138 10.331 9.994 10.461	10.637 9.802 11.079 11.038 11.452 10.998 10.996 10.830 10.451	99 99 100 101 100 101 101 102 103
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 Produc	tion: By S	State, Se	ptember 19	93-94	
	: Milk C	ows $\underline{1}/$:	Milk per	Cow <u>2</u> / :	Milk	Production	<u>2</u> /
State	1993	1994	1993	1994	1993 :	1994	1994 as % of 1993
•	: 1	,000	Poun	ds	Million P	ounds	Percent
CA FL ID IN IN KY MD MI MN MO NYC OH PA TN TX VA WI	,	1.219 176 2176 1457 1657 2877 2877 3320 2184 2951 4000 1293 1.503	990 1,430 1,2335 1,235 1,1340 1,13125 1,12705 1,2235 1,2235 1,2235 1,245 1,185	1,095 1,0520 1,0520 1,2500 1,2500 1,2500 1,23500 1,23500 1,2450 1,22450 1,22450 1,22450 1,22450 1,22450 1,2055 1,2	177 275 210 178 333 165 106 444 7215 918 112 371 797 173 450 155 411	2.066 180 324 224 181 330 164 111 452 719 215 918 112 372 807 168 476 193 152 423 1.864	108 102 118 107 109 995 1002 1000 1001 1001 1001 1007 1003 1003
21 State: Total :		8,036	1,253	1,301	10,138	10,451	103

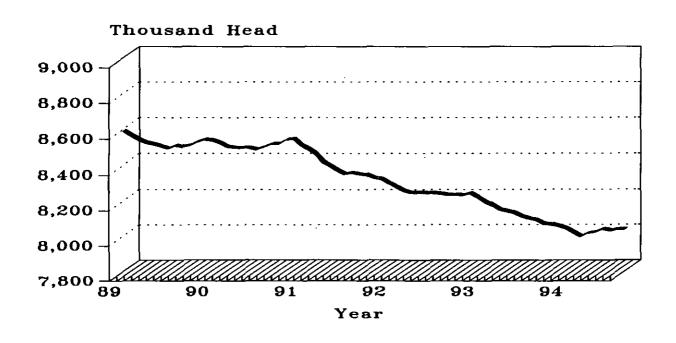
 $[\]frac{1}{2}$ / Includes dry cows. Excludes heifers not yet fresh. Excludes milk sucked by calves.

Milk Production, 1989-1994 21 States



	M ⁻	ilk Cows	and Produ	ction:	By State	e, August 1	.993-94 <u>1</u> /	
	: !	Milk Cows	<u>2</u> / :	Milk p	er Cow 3	<u>}</u> / : Mil	k Production	1 <u>3</u> /
Stat	e : : 199	93	1994 :	1993	1994	: 1993 :	1994	1994 as % of 1993
	: -	1,00	0	Po	unds	Millior	Pounds	Percent
CFLDLINAYDINOYCHANXTAAI 1.	te:	182 179 1792 1745 1745 1777 3395 1757 3039 1386 1386 1386 1381	·	1.680 1.490 1.270 1.2145 1.350 1.350 1.2260 1.2260 1.2295 1.225 1.645 1.645	1.05 1.23 1.23 1.021 1.22 1.22 1.22 1.23 1.23 1.23 1.23 1.	175 113 105 105 105 105 105 105 105 107 107 107 107 107 107 107 107 107 107	189 3352 193 161 160 160 160 173 173 174 195 195 195 195 195 195 195 195 195 195	117 99 103 100 95 99 102 98 100 101 99 106 95 102
Total	: 8	.098	8,034	1,306	1,34	8 10,573	10,830	102
<u>1</u> / 19 fr	93 and 19 esh. <u>3</u> /	994 revi: Exclude	sed. <u>2</u> / : es milk si	Include: ucked b	s dry cow y calves.	s. Exclude	s heifers no	ot yet

All Milk Cows, 1989-1994



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

State :	Apr-Jun Milk	Cows <u>1</u> / :	'Apr-Jun Milk Pro	oduction <u>2</u> /	1994 as % of
state:	1993 :	1994 :	1993	1994	1993
:]	000	Millio	n Pounds	Percent
AAAACCCCDFGHIIIIIKKLMMMMMMMNNNNNNNNNNNOOOPRSSSTTUVVWWWWW	39 0.7 1024 1.1770 10.98 10.77 10.98 1790 10.98 1790 10.98 1790 10.98 1790 10.98 1790 10.98 10.98 10.99 10.98 10.99 10.98 10.98 10.99 10.99 10.98 10.9	367000 367000 367000 3670	1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1377	13539910003955667283074444955298074431731874273187479858932163374337883747316881455769881168812893213344434855298801168128137888	9991079998911799910011999100119991001199911099110
US <u>3</u> /	9,727	9.641	39.411	39,973	101

^{1/} Includes dry cows, excludes heifers not yet fresh. $\overline{2}/$ Excludes milk sucked by calves. $\overline{3}/$ Milk cows will not add due to rounding.

Milk Cows and Production: By State and United States Preliminary July-September 1993-94

State	: Jul-Sep Milk Cows <u>1</u> /			1994
	1993 : 1994	: 1993	: 1994	as % of 1993
		Mil		Percent
AAKZRAOTELAIDLINASYAEDAINNSOTEVHJMYCDHKRAICDNXTTAAVIY S 3/	81 33 10.0 179 10.9 196 145 294 80 177 78 41 97 30 339 647 528 222 20.0 20.2 20.0 20.2 139 748 94 70 303 908 100 650 2.2 28 124 182 386 81 161 131 263 1.7 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	36 0.7 118 3.13 135 161 .219 .219 .373 .370 .373 .370 .373 .370	1029 3.47233 4.7833 6.4024 1029 1029 1029 10363 1037 1040 1057	93599888889258871119966337166188861247335914993596208842674328 10199109911099 10199911099911099 10199911099 10199911099 10199911099 10199911099 101999110999911099991109991109991109991109991109991109991109991109991109991109991109999110999110999110999110999110999110999110999110999110999110999911099991109999110999911099991109999110999911099991109999110999911099991109999110999911099991109999110999991109999911099999110999999

^{1/} Includes dry cows, excludes heifers not yet fresh. $\overline{2}/$ Excludes milk sucked by calves. $\overline{3}/$ Milk cows will not add due to rounding.

Grain and Other Concentrates: Quantity Fed Daily and Value By State and United States, October 1, 1993-94

State	:Grain and Other : Fed Daily per	Concentrates : Milk Cow :	Value.per 100 Pounds Ration Fed to Milk 1993 :	of Concentrate Cows
	1993 :	1994 :	1993 :	1994
	: Pc	ounds	D	ollars
AAAACCCDFGILIAKKLMMMMMMMMNNNNNNNOOOPRSSTTUVVWWWW AAAACCCDFGILIAKKLMMMMMMMNNNNNNNNOOOPRSSTTUVVWWWW	30065052880503054456300503428707557024570050 179570065000528805030544563005034287075570244570050 12122217768665030544563005034287075570244570050 11217550050	65349008010350260099024673205106813005054043005263 17937122665511857868655566657777154647680965586737562463 1121112111111111111111111111111111111	00000005000555500000555500000500500050	8.1000000000000000000000000000000000000
US	17.8	18.7	7.92	7.87

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 0.6 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 July-September Milk Estimates 1/

Item		Root	: 90	%	: Fir.	rence Betwe st and Fina Estimates	1 :		per of rters
		: Mean : Confi : Square : Lev : Error : : :		el	: Average:	: Smallest:L	argest:	First Above Final	: Below
	:	- Per	cent -		Mil	Lbs		- Nu	mber -
Milk Production	:	0.7	1.3	499	204	15	538	10	0
	:				1,000	Head			
All Milk Cows	: :	0.6	1.1	106	46	1	135	10	0

 $[\]underline{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 16, 1994.

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