

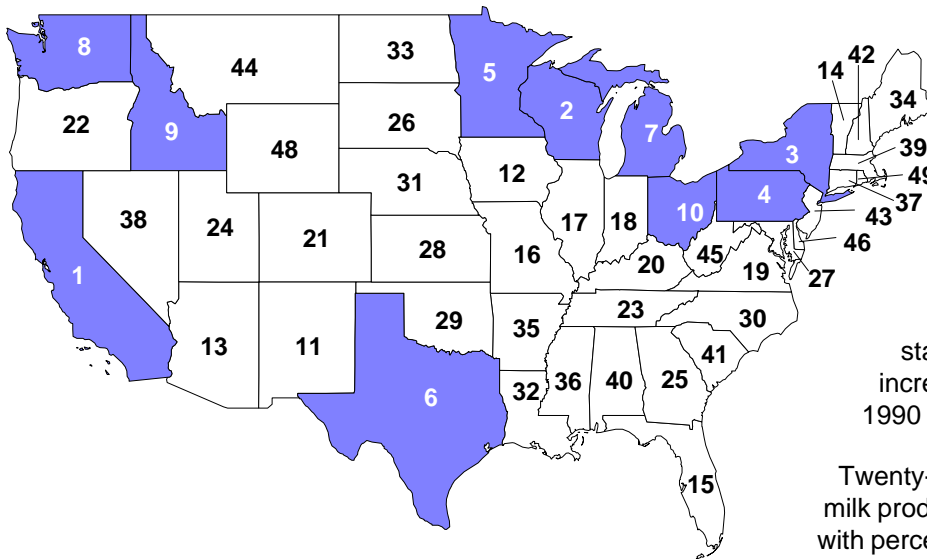
MARKETING SERVICE

BULLETIN

1997 Milk Production

1997 U.S. milk production registered a record 156.6 billion pounds -- a 1.1% increase compared with the previous year's production of 154.8 billion pounds. Comparing 1997 with 1990, milk production in the U.S. has increased by 8.3 billion pounds, a gain of 5.6%. For the second consecutive year Alaska recorded the largest annual percentage gain (+11.1%), and was the only state to post a double digit percentage increase comparing 1997 with 1996. Idaho and Delaware posted the next two largest annual percentage increases during 1997, with milk production increasing by 9.7% and 9.3%, respectively. North Dakota recorded the largest annual percentage decrease

1997 Milk Production Ranking Top Ten States Highlighted



during 1997, with production declining by 12.7%. Following North Dakota were Arkansas and South Dakota, with milk production declines of 6.7% and 6.1%, respectively.

The map to the left details each state's ranking in milk production for 1997. The top ten milk producing states have been shaded. The graphics on page 4 depict the states with the largest percentage increases and decreases from 1990 to 1997.

Twenty-nine states registered annual milk production increases during 1997, with percentage increases averaging 3.4%. The remaining twenty-one states

posted production decreases, with percentage decreases averaging 3.6%. Nine states registered gains of more than 5% during 1997, while only five states recorded decreases in milk production of 5% or more. Comparing 1997 with 1990, 19 states recorded milk production increases, led by New Mexico's 163.2% gain. The average percentage increase for these states was 27.7%; however, only five states posted increases larger than the 19-state average. These five were New Mexico (+163.2%), Idaho (+76.1%), Arizona (+61.9%), Nevada (+45.4%), and California (+31.9%). Colorado (+26.9%), Delaware (+24.4%), Utah (+21.5%), and Washington (+20.8%) were the remaining states that posted double digit percentage increases compared with 1990.

Thirty-one states recorded production declines between 1990 and 1997, with an average percentage decline of 13.3%. Fifteen of these states recorded decreases greater than the average percentage loss. These states were:

North Dakota	-36.1%	Wyoming	-35.2%	Tennessee	-27.4%	Nebraska	-22.7%
Missouri	-22.2%	Arkansas	-21.5%	Kentucky	-19.5%	South Dakota	-19.3%
Alabama	-18.5%	Hawaii	-18.5%	Illinois	-18.2%	North Carolina	-17.3%
Louisiana	-15.5%	Mississippi	-15.4%	New Jersey	-14.8%		

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The graph at the right depicts annual milk production over the last eight years for the nation's top five milk producing states. During 1997 California, Pennsylvania, and New York recorded increases of 6.8%, 1.0%, and 0.3%, respectively. California was the only state to record a production increase each year during this period -- increasing production by 31.9%. Pennsylvania (+8.1%) and New York (+4.3%) also posted increases compared with 1990. Conversely, Wisconsin (-2.5%) and Minnesota (-2.4%) both recorded decreased milk production versus 1996, and both states also registered declines compared with 1990 (Wisconsin: -8.3%; Minnesota: -8.2%).

The map on page 6 provides a ranking of states based on milk production per cow. California, Washington, and Idaho are the only states ranked in the top ten in both total milk production and milk production per cow. California is the only one among the top five milk producing states with production per cow above the national average of 16,916 pounds.

1997 Per Capita Milk Production

Per capita milk production is a data series examined annually in this Bulletin. A comparison of this series to per capita consumption data may reflect the aggregate supply and demand balance for individual states and regions throughout the U.S. The table on page 7 details and compares per capita milk production by state for 1997, 1996, and 1990. This table lists the states in descending order based on 1997 per capita production.

The states with per capita production of more than 600 pounds are inside the shaded area of the table. Five of the top ten states in total production are also in the top ten in per capita production. These five are Wisconsin, Pennsylvania, Minnesota, Washington, and Idaho.

Per capita production for 1997 was up 1.2 pounds (+0.2%) compared with 1996. Twenty-five states reported per capita increases during 1997, the largest being Alaska with a gain of 10.3%. Delaware, Idaho, Kansas, West Virginia, New Mexico, California, and Iowa were other states with increases of more than 5 percent. North Dakota recorded the largest per capita production decline during 1997, with a loss of 12.4%. Texas, Arkansas, South Dakota, and Louisiana were the only other states to post declines of 5 percent or more.

Per capita production for the U.S. declined by 11.2 pounds, or 1.9%, between 1990 and 1997. Fourteen states recorded increases in per capita milk production during this time frame, led by New Mexico's gain of 130.5%. Wyoming, North Dakota, and Tennessee recorded the largest decreases, with per capita production falling by 38.8%, 36.3, and 34.1%, respectively. Ten other states posted declines of 20 percent or more compared with 1990, while 11 more states reported decreases between 10 and 20 percent.

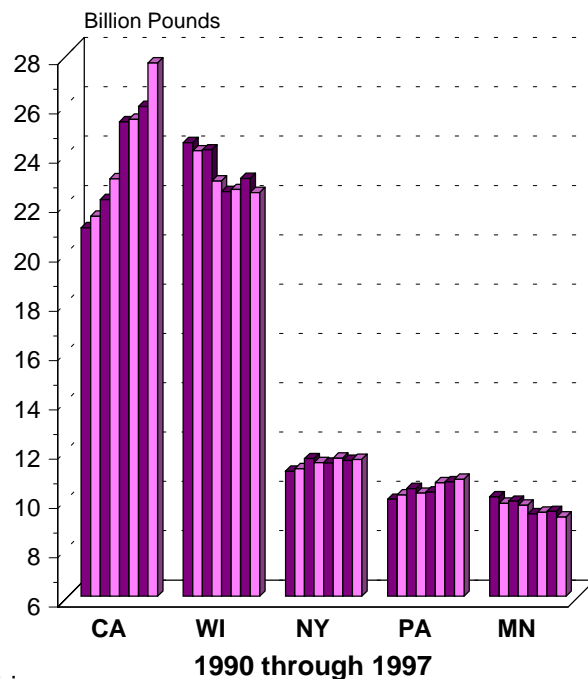
The map on the top of page 3 depicts per capita milk production by state for 1997. The 300 and 600-pound levels of per capita production are arbitrary divisions selected for the categories used in this map. These levels reflect average annual fluid and total per capita dairy consumption, plus reserve requirements. A cursory analysis of regional milk supply conditions can be performed by examining the shading patterns prevalent in the individual regions.

The map at the bottom of page 3 displays the percentage change in per capita milk production by state between 1990 and 1997. The data represented by this map reflects changes in production combined with population changes that have transpired since 1990. The West and Northeast regions are dominated by states with increases in milk production per capita, while the remainder of the states posted decreases. The graphics on page 5 depict the states with the largest percentage increases/decreases from 1990 to 1997.

The graph on page 6 provides a ranking of the top five milk producing states in total milk production, production per cow, and production per capita. The graph on the last page of this Bulletin depicts milk production per capita for the U.S. over the last 18 years.

Annual Milk Production

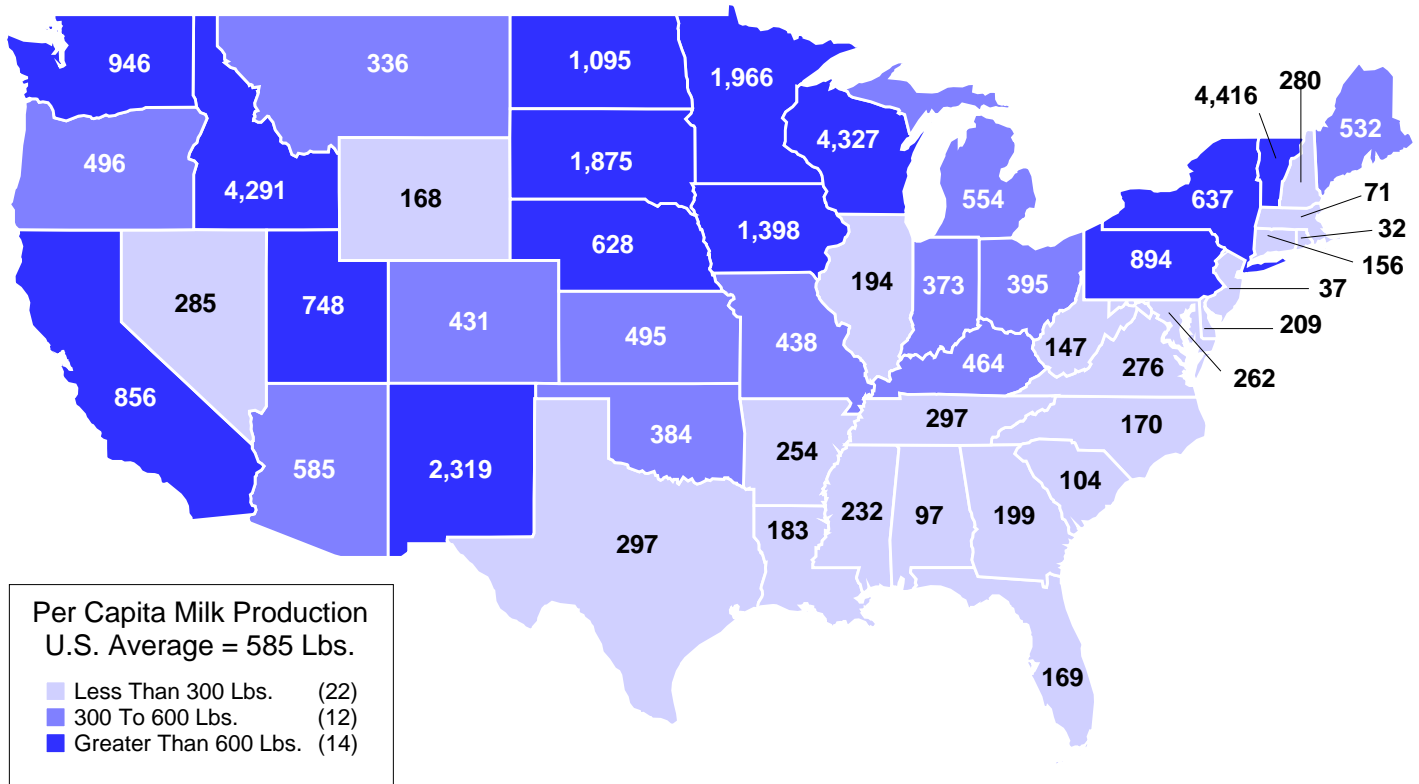
Top Five Dairy States



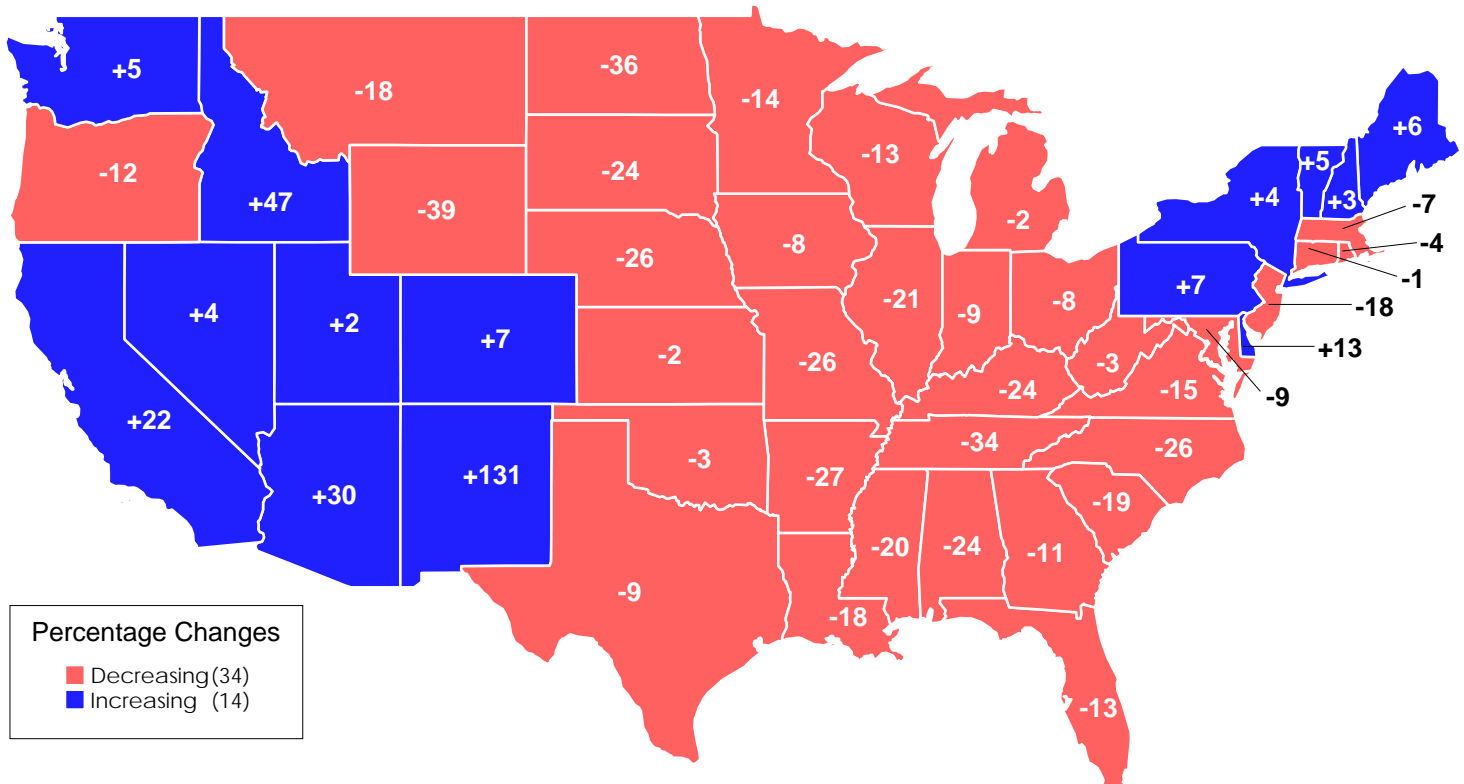
Percentage Of 1997 U.S. Totals

	Milk Production	Population Estimate
California	17.64	12.06
Wisconsin	14.28	1.93
New York	7.37	6.78
Pennsylvania	6.86	4.49
Minnesota	5.88	1.75
5-State Total	52.04	27.01

1997 Per Capita Milk Production

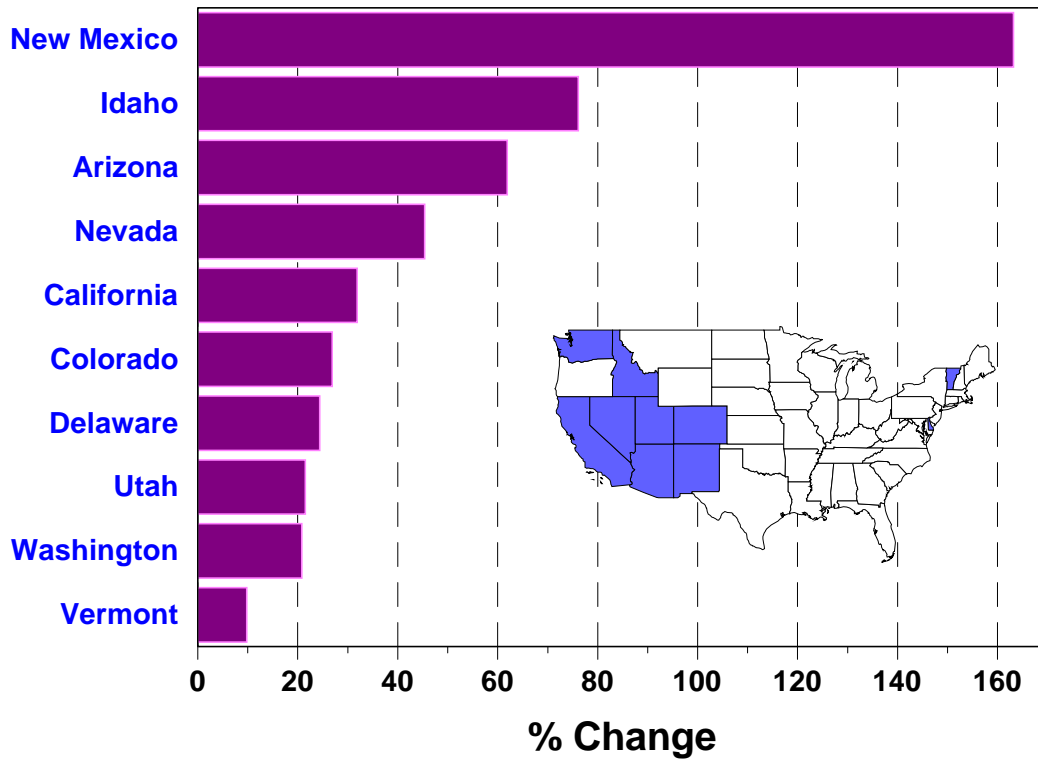


Percent Change In Per Capita Milk Production 1997 vs 1990

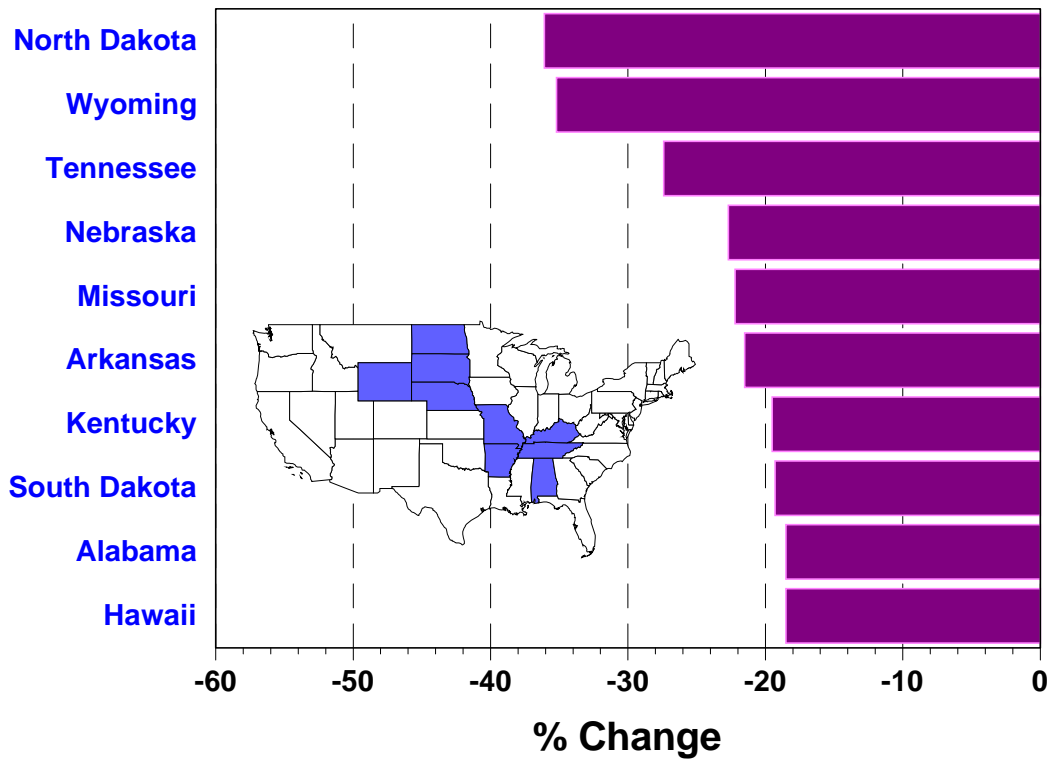


U.S. Milk Production: 1997 vs 1990

Largest Production Increases

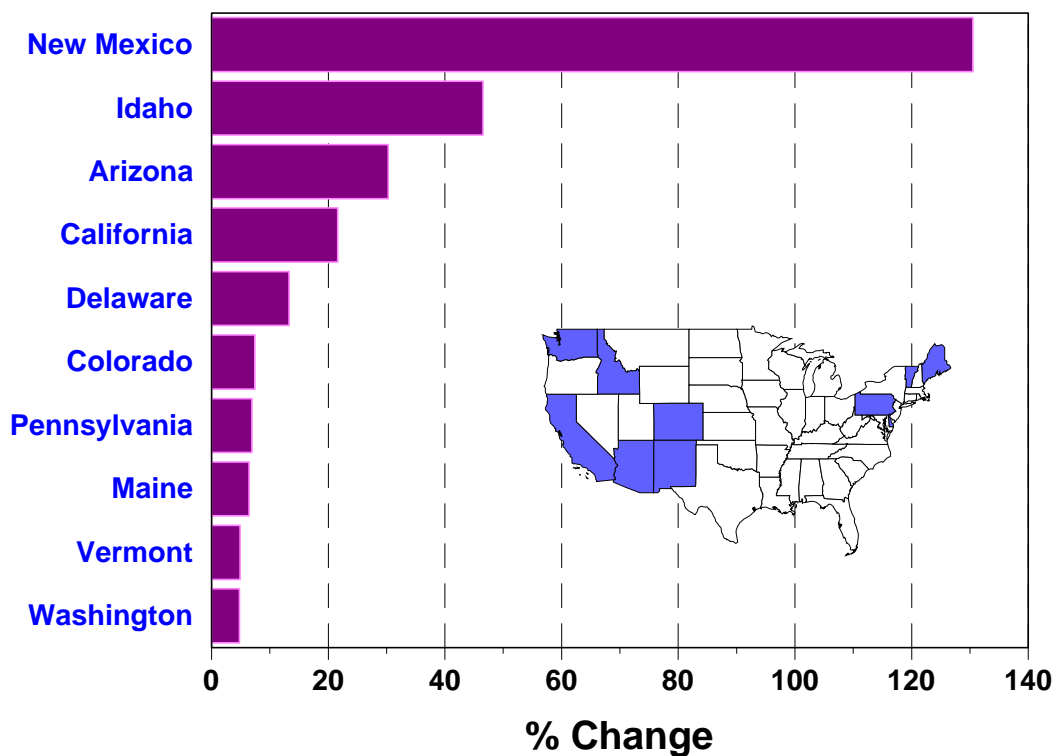


Largest Production Decreases

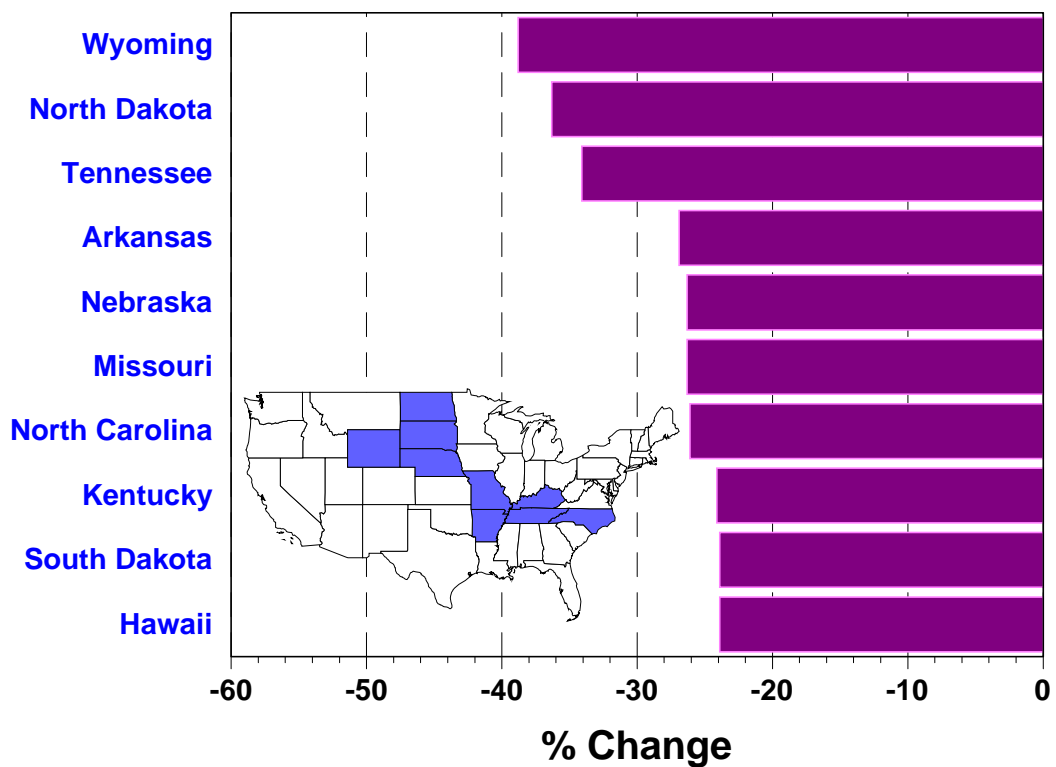


U.S. Per Capita Milk Production: 1997 vs 1990

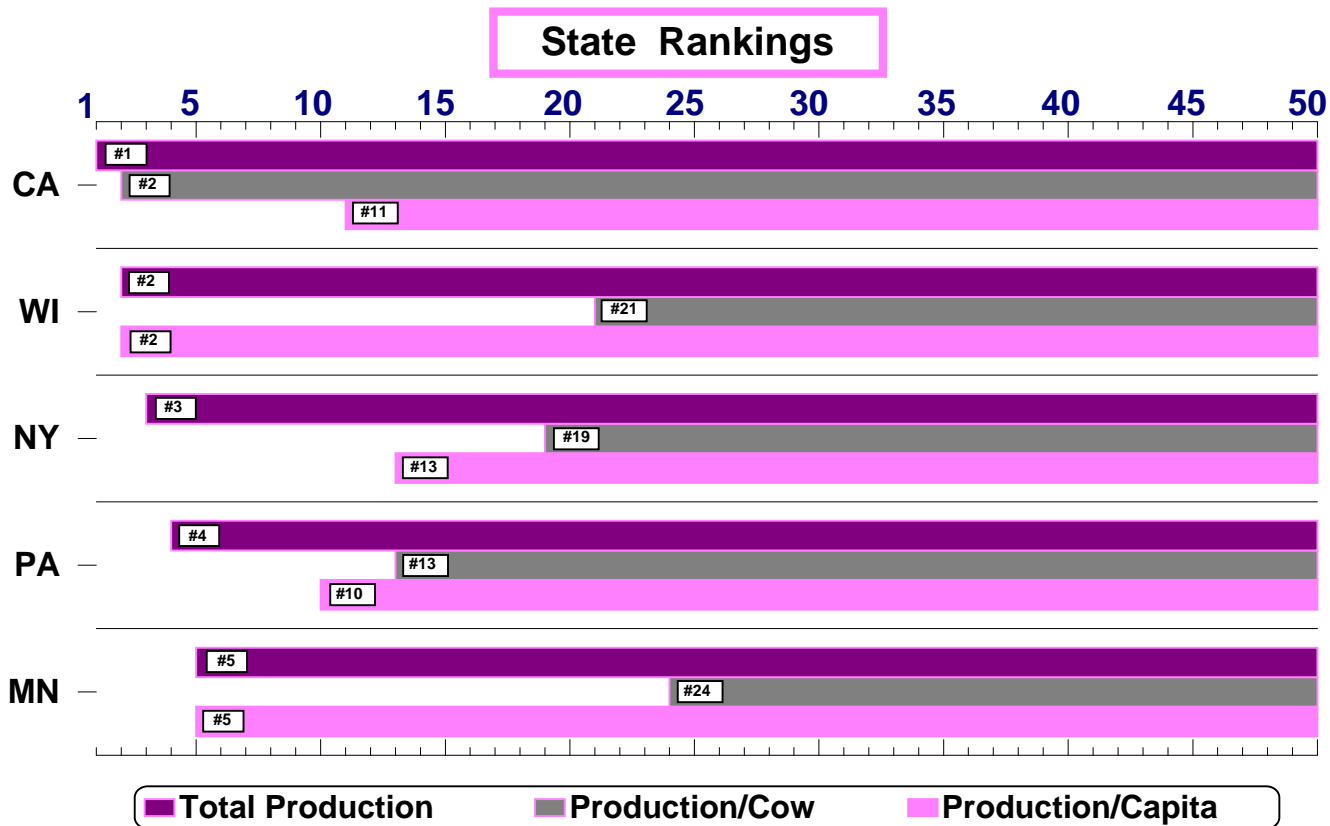
Largest Per Capita Increases



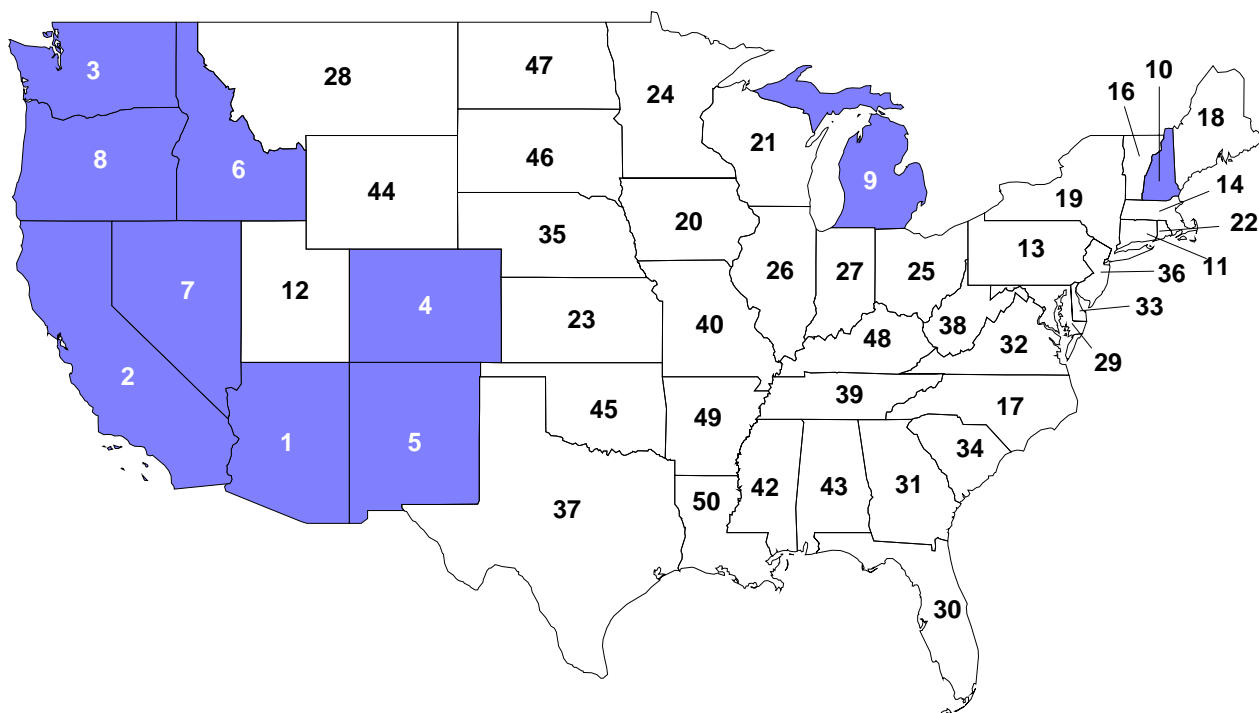
Largest Per Capita Decreases



1997 Milk Production - Top 5 States



1997 Milk Production Per Cow Ranking Top Ten States Highlighted



Per Capita Milk Production

1997 versus 1996 & 1990 - By State

States	Per Capita Milk Production			Change In Per Capita Milk Production			
	1997	1996 (Revised)	1990	1997 vs 1996		1997 vs 1990	
				Pounds	Percent	Pounds	Percent
1 Vermont	4,416.1	4,380.5	4,207.8	35.6	0.8	208.3	5.0
2 Wisconsin	4,326.8	4,458.0	4,988.0	(131.2)	(2.9)	(661.2)	(13.3)
3 Idaho	4,290.9	3,987.0	2,929.3	303.9	7.6	1,361.6	46.5
4 New Mexico	2,318.8	2,193.1	1,005.9	125.7	5.7	1,312.9	130.5
5 Minnesota	1,965.6	2,030.7	2,292.2	(65.1)	(3.2)	(326.6)	(14.2)
6 South Dakota	1,875.4	1,998.5	2,465.5	(123.1)	(6.2)	(590.1)	(23.9)
7 Iowa	1,397.8	1,328.6	1,524.4	69.2	5.2	(126.6)	(8.3)
8 North Dakota	1,095.4	1,251.1	1,718.8	(155.7)	(12.4)	(623.4)	(36.3)
9 Washington	945.6	956.4	902.5	(10.8)	(1.1)	43.1	4.8
10 Pennsylvania	893.7	883.7	835.9	10.0	1.1	57.8	6.9
11 California	856.2	811.8	703.9	44.4	5.5	152.3	21.6
12 Utah	747.9	766.8	735.4	(18.9)	(2.5)	12.5	1.7
13 New York	636.6	634.7	615.1	1.9	0.3	21.5	3.5
14 Nebraska	627.7	636.9	852.1	(9.2)	(1.4)	(224.4)	(26.3)
15 Arizona	584.9	557.9	448.8	27.0	4.8	136.1	30.3
16 Michigan	553.5	558.0	563.0	(4.5)	(0.8)	(9.5)	(1.7)
17 Maine	532.2	523.2	500.0	9.0	1.7	32.2	6.4
18 Oregon	496.4	503.1	566.8	(6.7)	(1.3)	(70.4)	(12.4)
19 Kansas	495.2	465.3	502.5	29.9	6.4	(7.3)	(1.5)
20 Kentucky	464.4	479.1	611.6	(14.7)	(3.1)	(147.2)	(24.1)
21 Missouri	437.8	455.8	594.1	(18.0)	(3.9)	(156.3)	(26.3)
22 Colorado	431.3	427.9	401.6	3.4	0.8	29.7	7.4
23 Ohio	394.7	390.6	430.3	4.1	1.0	(35.6)	(8.3)
24 Oklahoma	384.4	380.8	395.8	3.6	0.9	(11.4)	(2.9)
25 Indiana	373.3	371.6	410.5	1.7	0.5	(37.2)	(9.1)
26 Montana	335.7	350.2	406.7	(14.5)	(4.1)	(71.0)	(17.5)
27 Tennessee	296.9	304.7	450.5	(7.8)	(2.6)	(153.6)	(34.1)
28 Texas	296.7	320.6	326.1	(23.9)	(7.5)	(29.4)	(9.0)
29 Nevada	284.5	293.6	273.0	(9.1)	(3.1)	11.5	4.2
30 New Hampshire	279.7	279.3	272.3	0.4	0.1	7.4	2.7
31 Virginia	276.1	270.8	323.8	5.3	2.0	(47.7)	(14.7)
32 Maryland	261.5	261.1	287.2	0.4	0.2	(25.7)	(8.9)
33 Arkansas	254.1	274.1	347.6	(20.0)	(7.3)	(93.5)	(26.9)
34 Mississippi	232.2	242.7	290.8	(10.5)	(4.3)	(58.6)	(20.2)
35 Delaware	209.1	193.5	184.6	15.6	8.1	24.5	13.3
36 Georgia	198.8	202.6	222.3	(3.8)	(1.9)	(23.5)	(10.6)
37 Illinois	193.9	197.1	246.7	(3.2)	(1.6)	(52.8)	(21.4)
38 Louisiana	182.5	193.1	222.7	(10.6)	(5.5)	(40.2)	(18.1)
39 North Carolina	169.6	176.2	229.5	(6.6)	(3.7)	(59.9)	(26.1)
40 Florida	169.0	166.5	195.2	2.5	1.5	(26.2)	(13.4)
41 Wyoming	168.2	175.6	274.7	(7.4)	(4.2)	(106.5)	(38.8)
42 Connecticut	155.7	152.7	156.7	3.0	2.0	(1.0)	(0.6)
43 West Virginia	146.5	138.4	150.5	8.1	5.9	(4.0)	(2.7)
44 South Carolina	104.3	102.5	128.2	1.8	1.8	(23.9)	(18.6)
45 Hawaii	103.7	109.0	136.2	(5.3)	(4.9)	(32.5)	(23.9)
46 Alabama	96.8	101.2	127.0	(4.4)	(4.3)	(30.2)	(23.8)
47 Massachusetts	71.1	72.3	76.6	(1.2)	(1.7)	(5.5)	(7.2)
48 New Jersey	37.3	37.1	45.5	0.2	0.5	(8.2)	(18.0)
49 Rhode Island	32.4	31.6	33.9	0.8	2.5	(1.5)	(4.4)
50 Alaska	24.6	22.3	30.5	2.3	10.3	(5.9)	(19.3)
U.S. Totals	585.1	583.9	596.3	1.2	0.2	(11.2)	(1.9)

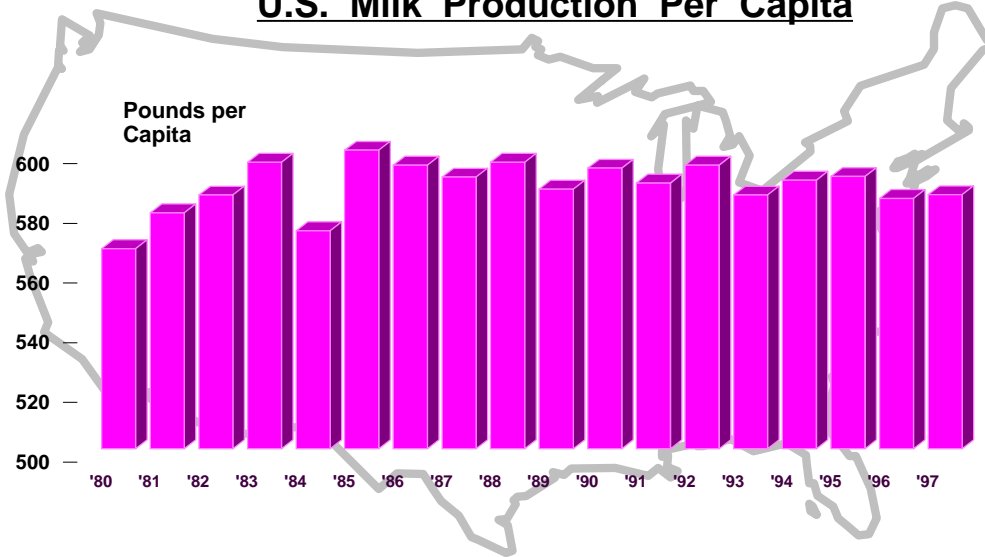
Data Sources:

Milk production Data: [Milk Production](#), February 1998, National Agricultural Statistics Service, Agriculture Statistics Board, USDA.
 Population Data : [Estimates of the Population of States: Annual Time Series, July 1, 1990 to July 1, 1997](#),
 Population Estimates Program, Population Division, US Bureau of the Census,
 Department of Commerce.

A comparison of Blend Prices for milk of 3.5% butterfat content is provided for selected Federal milk marketing orders:

	Jan 1998	Dec 1997	Jan 1997
Southeast (Zone 7)	\$15.46	\$15.43	\$14.08
Chicago Regional (Zone I)	13.62	13.62	12.31
Greater Kansas City	14.76	14.76	13.64
Indiana	14.33	14.21	13.00
Iowa (Zone I)	13.64	13.65	12.38
Southwest Plains (Zone I)	14.68	14.63	13.30
Central Illinois (Zone I)	14.39	14.27	13.12
Southern Illinois - Eastern Missouri (Base Zone)	14.31	14.21	12.95

U.S. Milk Production Per Capita



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