

MILK PRODUCTION

ALBERT R. MANN
LIBRARY
ITHACA, N. Y. 14850

NOV 10 1969

August 11, 1966

Special in this issue
JUNE MILK COW NUMBERS, page 6

SUMMARY

Milk production in the United States during July is estimated at 10,506 million pounds, down 3 percent from July 1965. The estimate for June has been revised to 11,397 million pounds, which is also 3 percent below a year earlier. July milk production provided 1.72 pounds per person daily, 4 percent less than per capita production in July a year ago. Milk output per cow averaged 722 pounds in July, up 3 percent from a year earlier.

Reported condition of dairy pasture feed averaged 67 percent of normal on August 1, the lowest U. S. average for the date since 1954. Condition of dairy pastures dropped 15 points from July 1, compared with the 5-year average decline during July of 6 points. August 1 condition of dairy pastures was 8 points below a year earlier and 10 points below average for the date. Reported grain and concentrates fed to milk cows on August 1 averaged 8.4 pounds per cow, 8 percent more than a year earlier.

Table 1.-Milk per cow and milk production, by months, United States, 1966, with comparisons

Month	Milk per cow			Milk production			
	Average 1960-64	1965	1966	Average 1960-64	1965	1966	Change from 1965
	Pounds	Pounds	Pounds	Million Pounds	Million Pounds	Million Pounds	Percent
January.....	587	658	658	10,028	10,419	9,865	-5.3
February.....	565	622	620	9,634	9,820	9,254	-5.8
March.....	642	709	716	10,932	11,155	10,645	-4.6
April.....	659	722	735	11,197	11,305	10,874	-3.8
May.....	728	782	794	12,347	12,206	11,707	-4.1
June.....	701	756	1/780	11,872	11,742	1/11,397	-2.9
July.....	644	702	722	10,888	10,856	10,506	-3.2
August.....	602	653		10,158	10,046		
September....	567	615		9,555	9,404		
October.....	573	621		9,634	9,446		
November.....	551	602		9,252	9,106		
December.....	584	635		9,788	9,556		
Annual.....	7,407	8,080		125,285	125,061		

1/ Revised.

Table 2.-Monthly milk per cow and milk production,
July 1966, with comparisons

State	Monthly milk per cow ^{1/}				Milk production				
	July av., 1960-64 ^{2/}	July 1965	June 1966 ^{3/}	July 1966	July av., 1960-64 ^{2/}	July 1965	June 1966 ^{3/}	July 1966	Change from July 1965
	Pounds	Pounds	Pounds	Pounds	Million pounds	Million pounds	Million pounds	Million pounds	Percent
Maine.....	-	830	880	845	-	67	68	65	- 3
New Hampshire...	-	760	850	790	-	33	34	32	- 3
Vermont.....	-	730	845	760	-	172	184	165	- 4
Massachusetts...	-	835	895	865	-	65	66	64	- 2
Rhode Island....	-	830	895	860	-	8.6	8.4	8.0	- 7
Connecticut.....	-	790	855	825	-	56	58	56	0
New York.....	692	752	895	765	853	881	995	846	- 4
New Jersey.....	748	805	890	840	92	85	88	83	- 2
Pennsylvania....	661	715	815	735	568	561	611	550	- 2
Ohio.....	716	775	850	815	461	439	456	435	- 1
Indiana.....	736	795	840	850	300	288	280	280	- 3
Illinois.....	716	790	850	800	378	353	348	326	- 8
Michigan.....	739	790	880	810	467	477	493	452	- 5
Wisconsin.....	725	785	920	785	1,545	1,633	1,840	1,568	- 4
Minnesota.....	656	680	860	700	833	838	981	794	- 5
Iowa.....	671	705	800	755	548	518	533	498	- 4
Missouri.....	575	635	660	635	359	344	330	315	- 8
North Dakota....	651	725	768	727	170	165	154	145	-12
South Dakota....	571	620	655	645	137	139	136	134	- 4
Nebraska.....	600	630	650	655	181	170	164	164	- 4
Kansas.....	521	600	630	615	163	160	154	149	- 7
Delaware.....	-	640	680	660	-	14.1	14.3	13.9	- 1
Maryland.....	604	640	670	660	129	129	132	130	+ 1
Virginia.....	568	615	615	625	180	172	165	168	- 2
West Virginia...	483	490	515	495	57	50	49	47	- 6
North Carolina..	531	590	600	600	137	137	136	136	- 1
South Carolina..	426	485	500	515	43	42	41	42	0
Georgia.....	441	500	530	550	88	85	84	87	+ 2
Florida.....	562	625	640	640	103	111	115	115	+ 4
Kentucky.....	536	615	660	640	260	264	269	260	- 2
Tennessee.....	477	510	515	515	229	225	218	217	- 4
Alabama.....	379	435	465	460	85	84	85	84	0
Mississippi.....	350	390	415	415	114	104	103	103	- 1
Arkansas.....	433	495	540	520	87	80	80	76	- 5
Louisiana.....	-	385	395	410	-	78	77	80	+ 3
Oklahoma.....	555	610	655	645	127	115	117	115	0
Texas.....	478	545	610	590	255	250	265	254	+ 2
Montana.....	585	600	635	590	42	39	39	37	- 5
Idaho.....	764	785	830	795	149	140	139	133	- 5
Wyoming.....	664	710	735	720	18.6	18.1	18.0	17.6	- 3
Colorado.....	656	670	700	695	76	71	72	71	0
New Mexico.....	-	620	630	620	-	25	26	26	+ 4
Arizona.....	-	825	870	845	-	42	45	44	+ 5
Utah.....	716	780	820	800	65	66	66	65	- 2
Nevada.....	706	855	870	900	10.7	11.9	11.8	12.1	+ 2
Washington.....	786	850	940	870	179	180	195	179	- 1
Oregon.....	721	770	830	790	108	99	101	96	- 3
California.....	913	966	960	980	734	756	738	754	0
Alaska.....	766	815	785	795	2.05	1.87	1.57	1.59	-15
Hawaii.....	758	860	840	850	10.6	13.0	13.3	13.1	+ 1
United States...	644	702	780	722	10,888	10,856	11,397	10,506	- 3.2

^{1/} Monthly rate based on all milk cows on farms (in milk or dry).

^{2/} Five-year averages not available for States where not shown.

^{3/} Revised.

July milk production continues 3 percent below year earlier

Milk production in the United States during July is estimated at 10,506 million pounds. This is 3 percent below a year earlier, the same year-to-year change as in June. The estimate for June has been revised to 11,397 million pounds. Average daily production declined 11 percent from June to July this year, a slightly larger decrease than in 1965. July milk production provided 1.72 pounds per person daily, 4 percent less than per-capita production in July 1965.

Milk output in July continued below a year earlier in all North Atlantic and North Central States except Connecticut, where production was unchanged. Relative to a year earlier, the 10 leading States show about the same change in July as in June. Only 9 States reported production above July last year.

Milk per cow up 3 percent

Milk output per cow in July averaged 722 pounds, up 3 percent from a year earlier. This was the fifth consecutive month that the rate has held above a year earlier. On a daily basis, the July rate of 23.3 pounds per cow was 10 percent less than in June, about the usual seasonal decline. Production per cow was at a record level in all States except West Virginia, Montana, Alaska, and Hawaii.

July production per cow in California, at 980 pounds, led the Nation, followed by Nevada with 900 pounds, Washington with 870 pounds, Massachusetts with 865, and Rhode Island with 860 pounds.

Grain fed up 8 percent

Grain and concentrates fed to milk cows on August 1 averaged 8.4 pounds per cow. This is 8 percent more than the 7.8 pounds reported fed on August 1 a year ago. Feeding rates averaged 10 or more pounds per cow in 11 States, compared with 9 States at that level or higher on August 1 last year.

Milk-feed price ratio up 13 percent

The milk-feed price ratio, at 1.49 for July, was up 13 percent from a year earlier. Most of this increase resulted from a 16-percent gain in wholesale milk prices, while the value of concentrate rations rose 2 percent. The ratio advanced 5 percent from June while the usual gain between these months is 3 percent. In cream-selling areas, the milkfat-feed price ratio was 25.1 compared with 22.5 in July a year ago.

August 1 pasture condition lowest since 1954

Reported condition of dairy pasture feed averaged 67 percent of normal on August 1, the lowest U. S. average for the date since 1954. Unusually hot weather during most of July dried up pastures rapidly. July rainfall was spotty and was considerably below normal in all Atlantic and Gulf Coast States and large areas of the West. U. S. dairy pasture condition dropped 15 points from July 1, compared with the 5-year average decline during July of 6 points. August 1 condition of dairy pastures was 8 points below a year earlier and 10 points below the 1960-64 average for the date.

In New England, pasture feed condition declined sharply during July but was considerably better than a year earlier in all States. Pastures in large areas of New England and New York benefitted from general rains in the last half of July. Rainfall in July was very light in New Jersey and Pennsylvania and there was little pasture feed available during the month. Most dairy herds received all their roughage in supplemental feeding of hay, silage, and green chop.

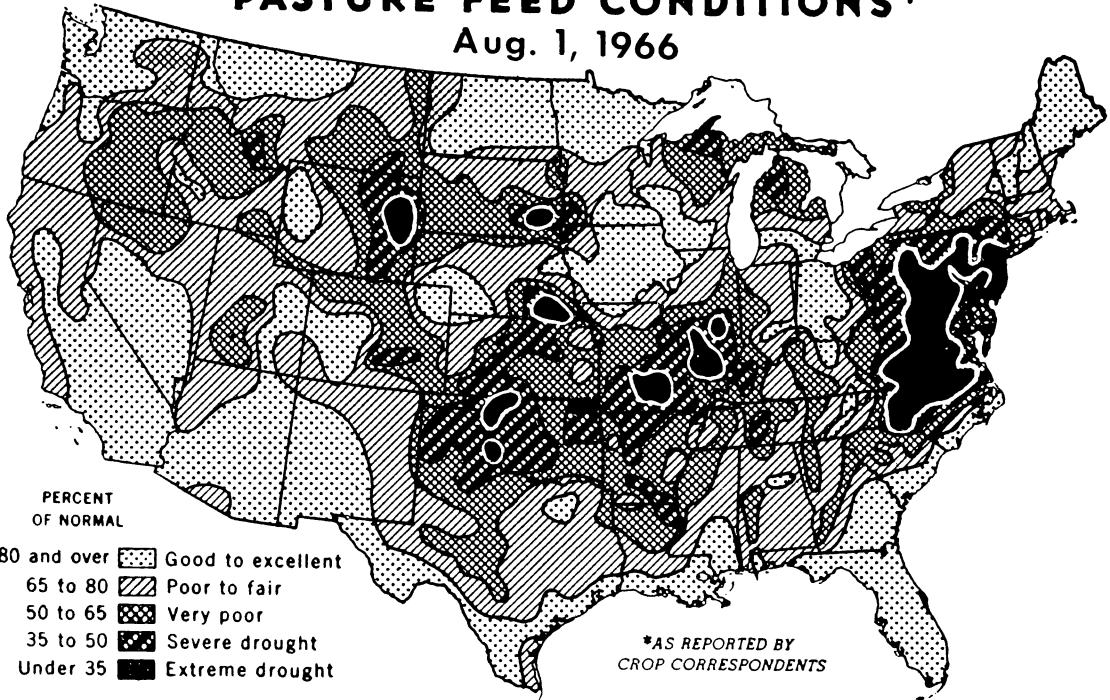
Pasture condition declined during July in all of the North Central States, as a result of high temperatures and spotty rainfall. The sharpest drops in condition from July 1 were 35 points in Illinois and 31 points in Missouri. However, late July rains relieved the dry conditions in parts of these two States. August 1 condition was better than a year earlier in Ohio, Michigan, Wisconsin, and Iowa.

Drought conditions intensified and expanded during July in Delaware, Maryland, Virginia, and West Virginia, and the affected area extended southward into North Carolina. Heavy supplemental feeding was necessary in this area. In the last week of July, general rains relieved the dry soil situation from central Virginia southward through Georgia. Pasture conditions declined further during July in each of the South Central States. August 1 condition was 20 or more points below a year earlier in Kentucky, Tennessee, Arkansas, and Oklahoma.

In the West, there was little change in pasture condition from July 1. Dryland pastures matured early in many areas. General rains in the last half of July stimulated new growth in eastern Colorado and parts of New Mexico and Arizona.

PASTURE FEED CONDITIONS*

Aug. 1, 1966



PERCENT
OF NORMAL

- 80 and over Good to excellent
- 65 to 80 Poor to fair
- 50 to 65 Very poor
- 35 to 50 Severe drought
- Under 35 Extreme drought

*AS REPORTED BY
CROP CORRESPONDENTS

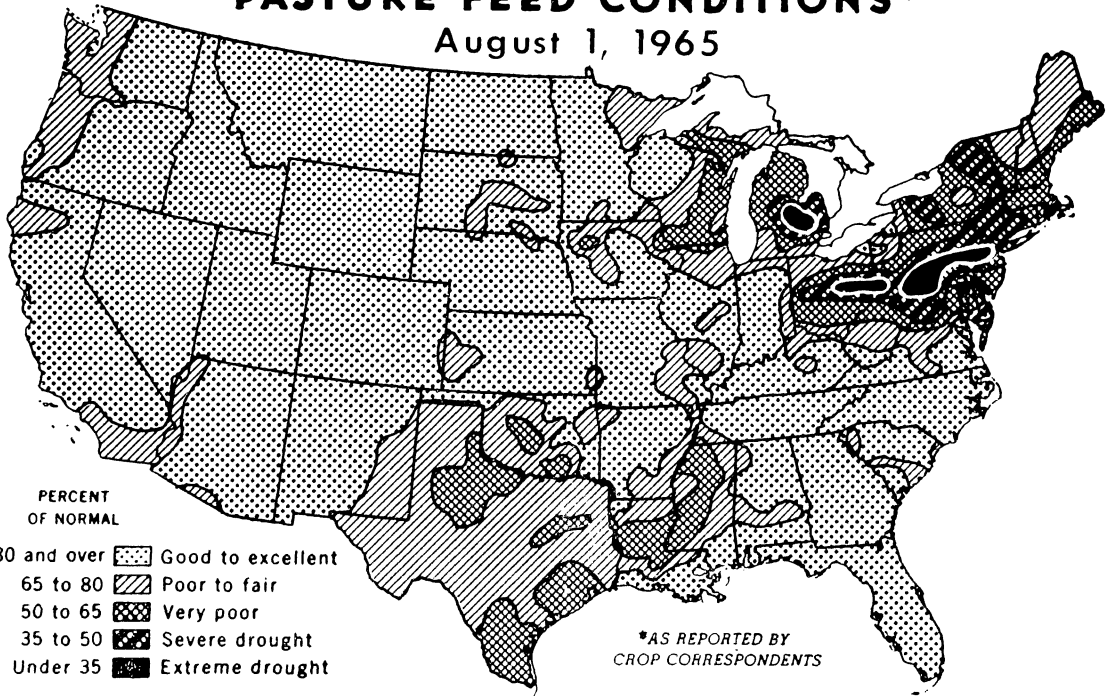
*INDICATES CURRENT SUPPLY OF PASTURE FEED FOR GRAZING RELATIVE TO THAT EXPECTED FROM EXISTING STANDS UNDER VERY FAVORABLE WEATHER CONDITIONS

U. S. DEPARTMENT OF AGRICULTURE

NEG. SRS 189-66(8) STATISTICAL REPORTING SERVICE

PASTURE FEED CONDITIONS*

August 1, 1965



PERCENT
OF NORMAL

- 80 and over Good to excellent
- 65 to 80 Poor to fair
- 50 to 65 Very poor
- 35 to 50 Severe drought
- Under 35 Extreme drought

*AS REPORTED BY
CROP CORRESPONDENTS

*INDICATES CURRENT SUPPLY OF PASTURE FEED FOR GRAZING RELATIVE TO THAT EXPECTED FROM EXISTING STANDS UNDER VERY FAVORABLE WEATHER CONDITIONS

U. S. DEPARTMENT OF AGRICULTURE

NEG. SRS 130-68(8) STATISTICAL REPORTING SERVICE

Table 3.-Grain and other concentrates fed daily per milk cow in herds kept by reporters, August 1, 1966, with comparisons

State	Aug. 1, av. 1960-64	Aug. 1, 1965	Aug. 1, 1966	State	Aug. 1, av. 1960-64	Aug. 1, 1965	Aug. 1, 1966
	Lb.	Lb.	Lb.		Lb.	Lb.	Lb.
Maine.....	7.6	10.0	9.8	West Virginia.....	4.1	5.7	5.9
New Hampshire...	7.5	9.9	10.3	North Carolina....	7.0	8.2	8.9
Vermont.....	6.4	8.5	8.4	South Carolina....	5.5	6.6	6.6
Massachusetts...	8.1	10.6	11.2	Georgia.....	6.9	9.8	10.2
Rhode Island....	8.5	10.5	11.4	Florida.....	4.8	6.5	7.0
Connecticut.....	8.7	10.0	11.0				
New York.....	7.5	8.8	8.8	Kentucky.....	5.5	6.5	7.4
New Jersey.....	9.0	10.7	10.9	Tennessee.....	5.2	5.8	6.7
Pennsylvania....	9.0	10.8	11.7	Alabama.....	5.2	7.0	7.5
				Mississippi.....	3.8	4.9	6.5
Ohio.....	8.2	9.8	10.2	Arkansas.....	5.2	7.4	8.4
Indiana.....	7.3	9.2	8.7	Louisiana.....	4.6	7.0	7.9
Illinois.....	7.1	7.8	8.7	Oklahoma.....	6.5	7.4	9.3
Michigan.....	8.1	9.4	9.2	Texas.....	4.6	5.5	5.7
Wisconsin.....	5.9	7.1	7.2				
				Montana.....	4.3	5.0	5.0
Minnesota.....	5.9	6.6	8.3	Idaho.....	5.0	6.1	5.9
Iowa.....	7.0	7.5	8.4	Wyoming.....	4.2	4.5	6.6
Missouri.....	6.5	7.3	7.9	Colorado.....	6.1	8.5	7.6
North Dakota....	5.0	7.1	8.1	New Mexico.....	5.6	8.0	9.2
South Dakota....	4.4	5.7	5.8	Arizona.....	5.6	7.8	9.8
Nebraska.....	5.9	6.2	6.7	Utah.....	6.1	7.7	7.8
Kansas.....	6.3	7.4	8.1	Nevada.....	6.0	8.5	9.5
				Washington.....	6.3	7.6	7.1
Delaware.....	8.4	10.8	12.0	Oregon.....	5.4	7.0	7.0
Maryland.....	9.0	10.6	12.5	California.....	8.0	10.0	10.5
Virginia.....	7.5	9.1	9.2	United States.....	6.5	7.8	8.4

Table 4.-Average milk price received by farmers and value of concentrate ration fed to milk cows, by regions, July 1966, with comparisons

Region	Milk price per 100 pounds				Ration value per 100 pounds			
	July av. 1960-64	July 1965	June 1966	July 1966	July av. 1960-64	July 1965	June 1966	July 1966
	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.
N. Atl.	4.52	4.56	4.60	5.14	3.52	3.56	3.54	3.58
E. N. Cent. ..	3.52	3.61	4.15	4.38	2.74	2.88	2.92	3.00
W. N. Cent. ..	3.30	3.37	3.83	4.12	2.38	2.56	2.53	2.60
S. Atl.	5.18	5.28	5.45	5.66	3.36	3.36	3.42	3.45
S. Cent.	4.26	4.39	4.76	5.04	3.09	3.16	3.16	3.22
West.	4.08	4.19	4.43	4.54	3.19	3.20	3.21	3.24
U. S.								
Milk areas....	3.94	4.03	4.36	4.66	2.98	3.06	3.07	3.13
Cream areas...	-	-	-	-	2.49	2.63	2.61	2.68
Milk and cream areas.....	-	-	-	-	2.95	3.05	3.06	3.12

Table 5.-Milk-feed and milkfat-feed price ratios, by regions, July 1966, with comparisons

Region	Milk-feed ratio 1/				Milkfat-feed ratio 2/			
	July av. 1960-64	July 1965	June 1966	July 1966	July av. 1960-64	July 1965	June 1966	July 1966
N. Atl.	1.28	1.28	1.30	1.44	-	-	-	-
E. N. Cent. ..	1.29	1.25	1.42	1.46	20.3	19.6	20.4	20.9
W. N. Cent. ..	1.39	1.32	1.51	1.58	25.6	23.5	25.7	26.4
S. Atl.	1.54	1.57	1.59	1.64	-	-	-	-
S. Cent.	1.38	1.39	1.51	1.57	16.6	16.8	16.9	16.9
West.	1.28	1.31	1.38	1.40	18.3	18.1	19.0	19.5
U. S.	1.32	1.32	1.42	1.49	24.0	22.5	24.4	25.1

1/ Pounds of concentrate ration equal in value to 1 pound of whole milk sold by farmers.

2/ Pounds of concentrate ration equal in value to 1 pound of milkfat in cream sold by farmers.

Table 6.-Dairy pasture feed condition, as percentage of normal, August 1, 1966, with comparisons 1/

State and division	Aug. 1, av. 1960-64	Aug. 1, 1965	Aug. 1, 1966	State and division	Aug. 1, av. 1960-64	Aug. 1, 1965	Aug. 1, 1966
	Percent	Percent	Percent		Percent	Percent	Percent
Me.	83	60	87	N. C.	82	92	54
N. H.	77	67	78	S. C.	80	85	66
Vt.	80	65	83	Ga.	82	86	75
Mass.	73	54	73	Fla.	87	88	84
R. I.	80	50	82	S. Atl. ..	77	79	53
Conn.	77	46	63	Ky.	86	86	65
N. Y.	68	54	65	Tenn.	83	88	64
N. J.	58	43	30	Ala.	80	85	68
Pa.	68	48	40	Miss.	73	66	69
N. Atl.	70	53	60	Ark.	70	80	54
Ohio.....	78	57	77	La.	72	74	74
Ind.	88	84	67	Okla.	76	75	48
Ill.	83	81	53	Tex.	69	67	69
Mich.	78	52	63	S. Cent. .	76	77	63
Wis.	69	70	75	Mont.	78	98	72
E. N. Cent. .	77	68	69	Idaho.....	86	90	74
Minn.	78	87	79	Wyo.	77	92	62
Iowa.....	88	83	87	Colo.	73	93	69
Mo.	74	88	51	N. Mex.	70	77	73
N. Dak.	76	96	84	Ariz.	80	86	86
S. Dak.	77	87	59	Utah.....	75	91	75
Nebr.	80	93	67	Nev.	83	94	76
Kans.	79	89	56	Wash.	84	77	88
W. N. Cent. .	80	88	72	Oreg.	86	80	76
Del.	63	65	42	Calif.	79	87	76
Md.	68	55	40	West.	80	86	76
Va.	71	81	39	U. S.	77	75	67
W. Va.	79	64	44				

1/ Indicates current supply of feed for grazing relative to that expected from existing stands under very favorable weather conditions. U. S. averages may differ from those published in Crop Production in that States are combined with dairy rather than all livestock weights.

MILK COWS ON FARMS, JUNE 1966

The number of milk cows on U. S. farms in June is estimated at 14.6 million, down 6 percent from 15.5 million a year earlier. The year-to-year percentage decrease was the largest of record. Milk cow numbers have declined each year since 1953. The rate of decline was progressively greater from 1953 to 1958, but slowed from 1958 to 1961. Since 1961, the reduction accelerated again to the current high rate.

Regionally, the drop in milk cows from June 1965 ranged from 3 percent in the west to 9 percent in the West North Central. Numbers were off 6 percent in the North Atlantic, East North Central, and South Central Regions and 4 percent in the South Atlantic.

Of the three leading States in number of milk cows, Wisconsin was down 4 percent from a year earlier, Minnesota dropped 8 percent and third-ranked New York, was off 5 percent. The average decline in the 10 leading States was 6 percent, the same as the national average. These States accounted for 58 percent of the U. S. total number of milk cows, the same percentage as a year earlier. The largest percentage decline in milk cows was 13 percent in both North Dakota and Alaska. Increases from June 1965 occurred in Florida, New Mexico, Arizona, and Hawaii.

Table 7.-Number of milk cows on farms, by States, June 1966, with comparisons

State and division	1960	1961	1962	1963	1964	1965	1966	1966 as percent of 1965
	Thou.	Thou.	Thou.	Thou.	Thou.	Thou.	Thou.	Percent
Me.	95	95	92	90	87	82	77	94
N. H.	51	51	51	48	44	43	40	93
Vt.	258	260	257	252	241	235	218	93
Mass.	94	94	91	88	83	79	74	94
R. I.	15	14	12.4	12.1	11.1	10.5	9.4	90
Conn.	88	86	79	76	74	71	68	96
N. Y.	1,248	1,250	1,256	1,216	1,198	1,175	1,112	95
N. J.	132	128	124	117	112	107	99	93
Pa.	884	880	871	850	820	788	750	95
N. Atl.	2,865	2,858	2,833	2,749	2,670	2,590	2,447	94.5
Ohio.....	690	674	651	627	600	570	536	94
Ind.	431	421	411	398	386	365	333	91
Ill.	570	558	540	505	479	450	410	91
Mich.	640	638	637	627	619	608	560	92
Wis.	2,138	2,138	2,138	2,127	2,115	2,090	2,000	96
E. N. Cent. ...	4,469	4,429	4,377	4,284	4,199	4,083	3,839	94.0
Minn.	1,265	1,278	1,278	1,265	1,265	1,240	1,141	92
Iowa.....	850	846	828	798	777	743	666	90
Mo.	659	655	642	607	574	545	500	92
N. Dak.	277	271	265	256	245	230	201	87
S. Dak.	249	244	238	233	233	226	208	92
Nebr.	327	318	303	288	280	272	252	93
Kans.	337	330	317	300	285	269	245	91
W. N. Cent. ...	3,964	3,942	3,871	3,747	3,659	3,525	3,213	91.1
Del.	27	26	25	24	23	22	21	95
Md.	217	219	215	212	208	203	197	97
Va.	337	333	322	309	293	280	269	96
W. Va.	131	126	119	112	108	102	95	93
N. C.	275	266	256	250	242	233	226	97
S. C.	109	107	104	100	92	87	82	94
Ga.	216	210	202	193	181	171	159	93
Fla.	194	189	179	176	177	178	180	101
S. Atl.	1,506	1,476	1,422	1,376	1,324	1,276	1,229	96.3
Ky.	504	500	494	477	457	432	408	94
Tenn.	486	488	494	477	457	444	424	95
Ala.	244	237	230	217	205	194	183	94
Miss.	367	352	330	305	285	268	249	93
Ark.	216	214	207	191	176	163	148	91
La.	234	231	226	219	212	204	195	96
Okla.	257	248	230	215	200	190	179	94
Tex.	577	553	543	520	490	460	434	94
S. Cent.	2,885	2,823	2,754	2,621	2,482	2,355	2,220	94.3
Mont.	79	76	73	70	67	65	62	95
Idaho.....	202	200	199	192	185	178	168	94
Wyo.	31.0	29.0	27.5	26.6	26.5	25.5	24.5	96
Colo.	125	119	116	112	107	106	103	97
N. Mex.	42	40	39	40	40	40	42	105
Ariz.	50	50	50	51	52	51	52	102
Utah.....	95	94	93	90	86	85	81	95
Nev.	16	15	15	15.0	14.5	14.0	13.6	97
Wash.	233	237	233	224	216	212	207	98
Oreg.	162	158	154	145	136	128	122	95
Calif.	822	811	804	796	791	783	769	98
West.	1,857	1,829	1,804	1,762	1,721	1,688	1,644	97.4
Alaska.....	2.5	2.8	2.9	2.6	2.5	2.3	2.0	87
Hawaii.....	13.9	13.7	13.9	14.0	13.9	15.2	15.8	104
U. S.	17,562	17,374	17,078	16,555	16,072	15,534	14,610	94.1