

# CURRENT POPULATION REPORTS

## POPULATION ESTIMATES

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### ESTIMATES OF THE POPULATION OF STATES: JULY 1, 1950 TO 1952

Revised estimates of the population of regions, divisions, and States for July 1, 1950 to 1952 were released today by Robert W. Burgess, Director, Bureau of the Census, Department of Commerce. The figures in this report supersede the corresponding estimates published last March in Current Population Reports, Series P-25, No. 70. The revisions of the earlier figures are made possible by the receipt of later information, principally data on school enrollment. For the majority of the States, the percentage differences between the revised estimates for 1952 and the earlier figures are less than 1 percent; in only a small number of States do the differences run as high as 2 percent. The percentage differences between revised figures and earlier figures for 1950 and 1951 are even smaller.

The high lights of population change between 1950 and 1952 reported in Current Population Reports, Series P-25, No. 70, are in the main applicable to the new estimates. According to the present report, 38 States and the District of Columbia had a larger population on July 1, 1952, than on April 1, 1950, the date of the last decennial census, and 10 States lost population in this period. Of the 10 States that lost population, 5 were in the South (Arkansas, Mississippi, Oklahoma, Tennessee, and West Virginia), 3 were in the Northeast Region (Maine, New Hampshire, and Vermont), and 2 were in the North Central Region (Iowa and North Dakota). This list of States includes three States (Iowa, New Hampshire, and Oklahoma) previously reported as having gained population. Two States (Alabama and Kentucky), reported to have lost population in the earlier release, are now shown to have gained population between 1950 and 1952.

The States with large numerical increases include California with a gain of about 958,000, Texas with 472,000, Florida with 340,000, Ohio with 327,000, and Michigan with 319,000. One State, New York, which was previously listed with the leaders was replaced by Ohio. The

distribution of States with the greatest relative gains changed very little since it was first reported in Series P-25, No. 70. Arizona and Nevada in the West and Florida in the South had increases of more than 10 percent. States with increases of between 5 and 10 percent are the following: California, Colorado, New Mexico, Oregon (newly added to this group), Utah, and Wyoming in the West; Delaware, Maryland, Texas, and Virginia in the South; Indiana (replacing Kansas as previously reported) and Michigan in the North Central Region; and New Jersey in the Northeast Region.

The estimates for each State except Kansas, the District of Columbia, and California were prepared in the following manner. First, estimates of the civilian population of each State were prepared by two methods; the results were then averaged to obtain the final estimates of civilian population; and, finally, estimates of Armed Forces stationed in each State were added to obtain estimates of total population. The two methods used were the "migration-and-natural-increase method" and the "vital rates method," as described below.

The migration-and-natural-increase method as applied here consists of (1) adding to the civilian population on April 1, 1950, an estimate of births, (2) adding or subtracting an estimate of net civilian migration, and (3) subtracting estimates of civilian deaths and of the net movement of civilians into the Armed Forces, for the period between the census and the estimate date. The net movement of civilians into the Armed Forces for each State was estimated by (1) taking the difference between (a) the number of persons serving in the Armed Forces on the estimate date who reported the State as their preservice residence and (b) the number serving in the Armed Forces on April 1, 1950, who reported the State as their preservice residence, and (2) adding an allowance for former residents of the State who died during this period while serving in the Armed Forces.

Net civilian migration was estimated in the following manner. First, net migration rates for children of school age were developed on the basis of data from the 1950 Census and statistics on school enrollment in the elementary grades. These rates were then assumed to represent the migration rates for persons of all ages and applied to the population of all ages in each State in 1950 to obtain tentative estimates of net migration for each State for the period since the 1950 Census. Finally, these estimates of net migration were adjusted by a ratio method to add algebraically to the national estimate of net immigration for the same period. This general procedure has been described as "Method II" in Population--Special Reports, Series P-47, No. 4, and illustrated in Current Population Reports, Series P-25, No. 20.

The procedure used in preparing the second set of estimates was the "vital rates method."<sup>1</sup> The steps in applying this method to obtain estimates for July 1, 1952, are as follows:

1. Compute the crude birth rate for the United States and for each State using birth statistics for the 12-month period centering on April 1, 1950, and the civilian population on April 1, 1950, as estimated from decennial census counts.

2. Compute the crude birth rate for the United States using birth statistics for the 12-month period centering on July 1, 1952, and the estimated civilian population on July 1, 1952, derived from the 1950 Census counts and statistics on births, deaths, Armed Forces strength and distribution, and civilian migration since April 1, 1950.

3. Prepare an estimate of the crude birth rate for each State for the 12-month period centering on July 1, 1952, on the assumption that the change in the rate for each State from the 1949-1950 period was the same as for the United States as a whole.

4. Compute the estimated civilian population for each State on July 1, 1952, from the crude birth rates for the 12-month period centering on July 1, 1952, as obtained above, and preliminary figures on the number of births for this period.

5. Adjust these State population figures so that they add exactly to the figure for the United States as a whole.

6. Compute a corresponding set of State estimates based on statistics of civilian deaths and estimated crude civilian death rates.

7. Compute a composite estimate of the civilian population of each State by averaging the separate figures based on births and deaths.

"Vital rates" estimates for July 1, 1950 and 1951, were developed by a similar procedure.

<sup>1</sup> Donald J. Bogue, "A Vital Statistics Technique for Making Postcensal Population Estimates," Journal of the American Statistical Association 45(250): 149-163, June 1950.

The estimates based on vital rates were averaged in turn with the estimates based on school data to yield the estimates presented in this report for most of the States. The estimates for Washington, D. C., represent a further average with another estimate, involving use of public utility data, 1950 Census data on persons per household, and other local data. The estimates for Kansas represent interpolations and adjustments of the results of the Kansas State Censuses taken each year as of March 31. The estimates for California are based on the averages of the results of the "migration-and-natural-increase method," the vital rates method, and the age-specific-death-rates method.

The birth and death statistics available for preparing these estimates include final figures classified on a residence basis for 1950 and provisional figures classified on an occurrence basis for 1951 and 1952. For the present purpose, the 1951 and 1952 figures were adjusted to a residence basis. All figures were corrected for underregistration. The factors used in correcting the births for underregistration represent the preliminary results of the 1950 Birth Registration Test conducted by the National Office of Vital Statistics in conjunction with the 1950 Census of Population. The adjustment of the death statistics for underregistration was confined to infants under 1 year of age. It is expected that the final figures on births and deaths will differ only slightly from those used.

Many of the data used to prepare the population estimates given in this report were obtained from other agencies. The National Office of Vital Statistics, United States Public Health Service, provided the vital statistics. The Immigration and Naturalization Service, Department of Justice, provided statistics on immigration and emigration. The Department of Defense provided the figures relating to the Armed Forces. State Departments of Education and parochial school systems throughout the country provided the data on school enrollment used in developing estimates of net internal migration.

As has been indicated, total population change in a State between the census date and a given estimate date consists of the net contribution of births, deaths, net movement of Armed Forces, and net civilian migration. The estimates of net migration implied in the population estimates shown in this report are subject to considerably greater percentage error than the other components of population change. Since net migration is frequently an important component of change, the estimates of total population change between the census date and each of the estimate dates are also subject to substantial error, and small changes should be interpreted with particular care. Although the estimates of total population change and the population estimates themselves have the same absolute errors, percentage-wise the errors in the population estimates are considerably smaller than those in the estimates of total population change.

Table 1.—ESTIMATES OF THE TOTAL AND CIVILIAN POPULATION OF REGIONS, DIVISIONS, AND STATES: JULY 1, 1952

(Total population figures include persons in the Armed Forces stationed in each State and exclude members of the Armed Forces overseas. Each population estimate has been independently rounded to the nearest thousand from figures computed to the last digit; hence, the sums of parts shown may differ slightly from the totals shown. Amounts and percentages of change are based on the unrounded numbers)

Region, division, and State	Total population				Civilian population			
	July 1, 1952	April 1, 1950 (census)	Increase (+) or decrease (-), April 1, 1950, to July 1, 1952		July 1, 1952	April 1, 1950	Increase (+) or decrease (-), April 1, 1950, to July 1, 1952	
			Amount	Percent			Amount	Percent
United States.....	155,767,000	150,697,361	+5,070,000	+3.4	153,324,000	149,634,000	+3,691,000	+2.5
<b>REGIONS:</b>								
Northeast.....	40,248,000	39,477,986	+770,000	+2.0	39,927,000	39,344,000	+583,000	+1.5
North Central.....	45,780,000	44,460,762	+1,319,000	+3.0	45,523,000	44,369,000	+1,155,000	+2.6
South.....	48,678,000	47,197,088	+1,481,000	+3.1	47,462,000	46,653,000	+810,000	+1.7
West.....	21,061,000	19,561,525	+1,499,000	+7.7	20,411,000	19,269,000	+1,143,000	+5.9
<b>NORTHEAST:</b>								
New England.....	9,476,000	9,314,453	+161,000	+1.7	9,357,000	9,261,000	+96,000	+1.0
Middle Atlantic.....	30,772,000	30,163,533	+609,000	+2.0	30,570,000	30,083,000	+487,000	+1.6
<b>NORTH CENTRAL:</b>								
East North Central.....	31,603,000	30,399,368	+1,203,000	+4.0	31,433,000	30,337,000	+1,097,000	+3.6
West North Central.....	14,177,000	14,061,394	+116,000	+0.8	14,090,000	14,032,000	+58,000	+0.4
<b>SOUTH:</b>								
South Atlantic.....	22,203,000	21,182,335	+1,020,000	+4.8	21,499,000	20,860,000	+639,000	+3.1
East South Central.....	11,466,000	11,477,181	-12,000	-0.1	11,294,000	11,412,000	-119,000	-1.0
West South Central.....	15,010,000	14,537,572	+472,000	+3.2	14,670,000	14,380,000	+290,000	+2.0
<b>WEST:</b>								
Mountain.....	5,453,000	5,074,998	+378,000	+7.4	5,330,000	5,021,000	+309,000	+6.2
Pacific.....	15,608,000	14,486,527	+1,122,000	+7.7	15,081,000	14,248,000	+833,000	+5.8
<b>NEW ENGLAND:</b>								
Maine.....	892,000	913,774	-22,000	-2.4	883,000	912,000	-29,000	-3.1
New Hampshire.....	532,000	533,242	-1,000	-0.2	528,000	531,000	-3,000	-0.6
Vermont.....	371,000	377,747	-7,000	-1.9	369,000	378,000	-8,000	-2.2
Massachusetts.....	4,761,000	4,690,524	+70,000	+1.5	4,695,000	4,665,000	+30,000	+0.6
Rhode Island.....	815,000	791,896	+23,000	+2.9	782,000	774,000	+8,000	+1.0
Connecticut.....	2,106,000	2,007,280	+99,000	+4.9	2,100,000	2,001,000	+99,000	+4.9
<b>MIDDLE ATLANTIC:</b>								
New York.....	15,111,000	14,830,192	+281,000	+1.9	15,034,000	14,801,000	+233,000	+1.6
New Jersey.....	5,103,000	4,835,329	+268,000	+5.5	5,026,000	4,802,000	+224,000	+4.7
Pennsylvania.....	10,558,000	10,498,012	+60,000	+0.6	10,511,000	10,480,000	+31,000	+0.3
<b>EAST NORTH CENTRAL:</b>								
Ohio.....	8,273,000	7,946,627	+327,000	+4.1	8,251,000	7,938,000	+313,000	+3.9
Indiana.....	4,148,000	3,934,224	+213,000	+5.4	4,118,000	3,932,000	+185,000	+4.7
Illinois.....	8,983,000	8,712,176	+271,000	+3.1	8,906,000	8,672,000	+234,000	+2.7
Michigan.....	6,690,000	6,371,766	+319,000	+5.0	6,667,000	6,361,000	+306,000	+4.8
Wisconsin.....	3,508,000	3,434,575	+74,000	+2.1	3,492,000	3,433,000	+59,000	+1.7
<b>WEST NORTH CENTRAL:</b>								
Minnesota.....	3,015,000	2,982,483	+33,000	+1.1	3,011,000	2,981,000	+30,000	+1.0
Iowa.....	2,608,000	2,621,073	-13,000	-0.5	2,606,000	2,621,000	-15,000	-0.6
Missouri.....	3,974,000	3,954,653	+19,000	+0.5	3,941,000	3,952,000	-11,000	-0.3
North Dakota.....	602,000	619,636	-17,000	-2.8	602,000	620,000	-18,000	-2.9
South Dakota.....	657,000	652,740	+5,000	+0.7	650,000	650,000	(?)	(?)
Nebraska.....	1,350,000	1,325,510	+25,000	+1.9	1,344,000	1,322,000	+22,000	+1.7
Kansas.....	1,971,000	1,905,299	+65,000	+3.4	1,938,000	1,887,000	+50,000	+2.7
<b>SOUTH ATLANTIC:</b>								
Delaware.....	346,000	318,085	+28,000	+8.6	342,000	318,000	+24,000	+7.6
Maryland.....	2,538,000	2,343,001	+195,000	+8.3	2,444,000	2,306,000	+138,000	+6.0
District of Columbia.....	828,000	802,178	+26,000	+3.3	789,000	769,000	+20,000	+2.6
Virginia.....	3,534,000	3,318,680	+215,000	+6.5	3,306,000	3,220,000	+86,000	+2.7
West Virginia.....	1,970,000	2,005,552	-36,000	-1.8	1,969,000	2,005,000	-36,000	-1.8
North Carolina.....	4,176,000	4,061,929	+114,000	+2.8	4,085,000	4,014,000	+70,000	+1.7
South Carolina.....	2,182,000	2,117,027	+64,000	+3.0	2,121,000	2,096,000	+25,000	+1.2
Georgia.....	3,518,000	3,444,578	+74,000	+2.1	3,426,000	3,402,000	+24,000	+0.7
Florida.....	3,112,000	2,771,305	+340,000	+12.3	3,017,000	2,729,000	+287,000	+10.5
<b>EAST SOUTH CENTRAL:</b>								
Kentucky.....	2,949,000	2,944,806	+4,000	+0.1	2,869,000	2,913,000	-45,000	-1.5
Tennessee.....	3,260,000	3,291,718	-32,000	-1.0	3,236,000	3,281,000	-45,000	-1.4
Alabama.....	3,093,000	3,061,743	+31,000	+1.0	3,053,000	3,053,000	-1,000	(?)
Mississippi.....	2,164,000	2,178,914	-15,000	-0.7	2,136,000	2,164,000	-28,000	-1.3
<b>WEST SOUTH CENTRAL:</b>								
Arkansas.....	1,844,000	1,909,511	-65,000	-3.4	1,825,000	1,908,000	-83,000	-4.4
Louisiana.....	2,758,000	2,683,516	+74,000	+2.8	2,708,000	2,670,000	+38,000	+1.4
Oklahoma.....	2,224,000	2,233,351	-9,000	-0.4	2,188,000	2,218,000	-30,000	-1.3
Texas.....	8,184,000	7,711,194	+472,000	+6.1	7,949,000	7,584,000	+365,000	+4.8
<b>MOUNTAIN:</b>								
Montana.....	597,000	591,024	+6,000	+1.1	592,000	589,000	+3,000	+0.5
Idaho.....	592,000	588,637	+3,000	+0.6	584,000	588,000	-4,000	-0.7
Wyoming.....	306,000	290,529	+16,000	+5.5	294,000	282,000	+12,000	+4.4
Colorado.....	1,427,000	1,325,089	+102,000	+7.7	1,387,000	1,307,000	+79,000	+6.1
New Mexico.....	738,000	681,187	+57,000	+8.4	712,000	668,000	+44,000	+6.6
Arizona.....	871,000	749,587	+121,000	+16.2	850,000	742,000	+108,000	+14.6
Utah.....	737,000	688,862	+48,000	+7.0	733,000	687,000	+46,000	+6.6
Nevada.....	184,000	160,083	+24,000	+14.9	178,000	157,000	+21,000	+13.2
<b>PACIFIC:</b>								
Washington.....	2,462,000	2,378,963	+83,000	+3.5	2,385,000	2,317,000	+68,000	+2.9
Oregon.....	1,604,000	1,521,341	+83,000	+5.4	1,598,000	1,519,000	+80,000	+5.2
California.....	11,542,000	10,586,223	+956,000	+9.0	11,098,000	10,413,000	+685,000	+6.6

<sup>1</sup> Estimated total population of the United States including Armed Forces overseas, for July 1, 1952, is 156,981,000.

<sup>2</sup> Less than 1,000.

<sup>3</sup> Less than 0.1.

Table 2.--ESTIMATES OF THE TOTAL AND CIVILIAN POPULATION OF REGIONS, DIVISIONS, AND STATES: JULY 1, 1950 TO 1952

(Total population figures include persons in the Armed Forces stationed in each State and exclude members of the Armed Forces overseas. Each population estimate has been independently rounded to the nearest thousand from figures computed to the last digit; hence, the sums of parts shown may differ slightly from the totals shown)

Region, division, and State	Total population			Civilian population		
	July 1, 1952	July 1, 1951	July 1, 1950	July 1, 1952	July 1, 1951	July 1, 1950
United States.....	155,767,000	153,383,000	151,228,000	153,324,000	151,082,000	150,196,000
<b>REGIONS:</b>						
Northeast.....	40,248,000	39,765,000	39,576,000	39,927,000	39,479,000	39,451,000
North Central.....	45,780,000	45,135,000	44,696,000	45,523,000	44,882,000	44,601,000
South.....	48,678,000	48,202,000	47,346,000	47,462,000	47,010,000	46,822,000
West.....	21,061,000	20,281,000	19,613,000	20,411,000	19,710,000	19,323,000
<b>NORTHEAST:</b>						
New England.....	9,476,000	9,357,000	9,334,000	9,357,000	9,247,000	9,287,000
Middle Atlantic.....	30,772,000	30,409,000	30,243,000	30,570,000	30,233,000	30,163,000
<b>NORTH CENTRAL:</b>						
East North Central.....	31,603,000	30,960,000	30,573,000	31,433,000	30,791,000	30,507,000
West North Central.....	14,177,000	14,175,000	14,123,000	14,090,000	14,091,000	14,094,000
<b>SOUTH:</b>						
South Atlantic.....	22,203,000	21,714,000	21,239,000	21,499,000	21,038,000	20,936,000
East South Central.....	11,466,000	11,507,000	11,496,000	11,294,000	11,321,000	11,427,000
West South Central.....	15,010,000	14,982,000	14,613,000	14,670,000	14,651,000	14,459,000
<b>WEST:</b>						
Mountain.....	5,453,000	5,246,000	5,092,000	5,330,000	5,140,000	5,037,000
Pacific.....	15,608,000	15,036,000	14,518,000	15,081,000	14,570,000	14,285,000
<b>NEW ENGLAND:</b>						
Maine.....	892,000	895,000	914,000	883,000	888,000	913,000
New Hampshire.....	532,000	535,000	533,000	528,000	531,000	531,000
Vermont.....	371,000	373,000	378,000	369,000	372,000	378,000
Massachusetts.....	4,761,000	4,724,000	4,700,000	4,695,000	4,663,000	4,676,000
Rhode Island.....	815,000	792,000	789,000	782,000	765,000	776,000
Connecticut.....	2,106,000	2,038,000	2,019,000	2,100,000	2,027,000	2,014,000
<b>MIDDLE ATLANTIC:</b>						
New York.....	15,111,000	14,916,000	14,863,000	15,034,000	14,855,000	14,833,000
New Jersey.....	5,103,000	4,941,000	4,849,000	5,026,000	4,868,000	4,814,000
Pennsylvania.....	10,558,000	10,551,000	10,531,000	10,511,000	10,510,000	10,517,000
<b>EAST NORTH CENTRAL:</b>						
Ohio.....	8,273,000	8,063,000	7,984,000	8,251,000	8,047,000	7,975,000
Indiana.....	4,148,000	4,069,000	3,964,000	4,118,000	4,033,000	3,962,000
Illinois.....	8,983,000	8,806,000	8,752,000	8,906,000	8,733,000	8,708,000
Michigan.....	6,690,000	6,540,000	6,426,000	6,667,000	6,519,000	6,416,000
Wisconsin.....	3,508,000	3,481,000	3,447,000	3,492,000	3,458,000	3,446,000
<b>WEST NORTH CENTRAL:</b>						
Minnesota.....	3,015,000	3,006,000	2,997,000	3,011,000	3,002,000	2,995,000
Iowa.....	2,698,000	2,619,000	2,636,000	2,606,000	2,618,000	2,636,000
Missouri.....	3,974,000	4,006,000	3,963,000	3,941,000	3,968,000	3,960,000
North Dakota.....	602,000	602,000	601,000	602,000	601,000	620,000
South Dakota.....	657,000	647,000	655,000	650,000	641,000	652,000
Nebraska.....	1,350,000	1,343,000	1,329,000	1,344,000	1,337,000	1,325,000
Kansas.....	1,971,000	1,951,000	1,923,000	1,938,000	1,923,000	1,906,000
<b>SOUTH ATLANTIC:</b>						
Delaware.....	346,000	330,000	321,000	342,000	325,000	321,000
Maryland.....	2,558,000	2,437,000	2,356,000	2,444,000	2,357,000	2,319,000
District of Columbia.....	828,000	810,000	803,000	789,000	771,000	771,000
Virginia.....	3,534,000	3,437,000	3,316,000	3,306,000	3,234,000	3,228,000
West Virginia.....	1,970,000	1,989,000	2,009,000	1,969,000	1,988,000	2,009,000
North Carolina.....	4,176,000	4,146,000	4,076,000	4,085,000	4,046,000	4,029,000
South Carolina.....	2,182,000	2,159,000	2,116,000	2,121,000	2,080,000	2,101,000
Georgia.....	3,518,000	3,481,000	3,443,000	3,426,000	3,394,000	3,403,000
Florida.....	3,112,000	2,925,000	2,798,000	3,017,000	2,843,000	2,756,000
<b>EAST SOUTH CENTRAL:</b>						
Kentucky.....	2,949,000	2,910,000	2,957,000	2,869,000	2,821,000	2,923,000
Tennessee.....	3,260,000	3,302,000	3,304,000	3,236,000	3,282,000	3,293,000
Alabama.....	3,093,000	3,102,000	3,059,000	3,053,000	3,054,000	3,050,000
Mississippi.....	2,164,000	2,192,000	2,175,000	2,136,000	2,164,000	2,161,000
<b>WEST SOUTH CENTRAL:</b>						
Arkansas.....	1,844,000	1,895,000	1,918,000	1,825,000	1,878,000	1,917,000
Louisiana.....	2,758,000	2,747,000	2,708,000	2,708,000	2,711,000	2,695,000
Oklahoma.....	2,224,000	2,262,000	2,236,000	2,188,000	2,226,000	2,223,000
Texas.....	8,184,000	8,077,000	7,749,000	7,949,000	7,836,000	7,625,000
<b>MOUNTAIN:</b>						
Montana.....	597,000	588,000	591,000	592,000	583,000	589,000
Idaho.....	592,000	590,000	589,000	584,000	588,000	588,000
Wyoming.....	306,000	298,000	291,000	294,000	287,000	284,000
Colorado.....	1,427,000	1,381,000	1,333,000	1,387,000	1,339,000	1,314,000
New Mexico.....	738,000	709,000	684,000	712,000	689,000	671,000
Arizona.....	871,000	804,000	754,000	850,000	788,000	746,000
Utah.....	737,000	706,000	691,000	733,000	701,000	687,000
Nevada.....	184,000	170,000	160,000	178,000	165,000	157,000
<b>PACIFIC:</b>						
Washington.....	2,462,000	2,420,000	2,378,000	2,385,000	2,338,000	2,319,000
Oregon.....	1,604,000	1,553,000	1,532,000	1,598,000	1,546,000	1,529,000
California.....	11,542,000	11,062,000	10,609,000	11,098,000	10,686,000	10,438,000