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

(The estimates for July 1, 1950 and 1951, given in this report supersede the corresponding estimates published in Current Population Reports, Series P-25, No. 62. The estimates for July 1, 1952, shown in this report are made in the absence of data reflecting the most recent internal migration and will be revised when such data become available)

Thirty-eight 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, nine States lost population in this period, and one State remained virtually unchanged, according to provisional estimates of State population for July 1, 1952, announced today by Robert W. Burgess, Director, Bureau of the Census, Department of Commerce. Of the four regions, only the West with 6.8 percent exceeded the national average increase of 3.4 percent.

California experienced the largest increase for a single State with a gain of about 804,000. Other States with large numerical increases included Texas with a gain of about 477,000, New York with 348,000, Michigan with 337,000, and Florida with 329,000. Of the nine States that lost population, six were in the South (Alabama, Arkansas, Kentucky, Mississippi, Tennessee, and West Virginia), two were in the Northeastern Region (Maine and Vermont), and one was in the North Central Region (North Dakota).

The States with the greatest relative gains in population between 1950 and 1952 were scattered throughout the four regions. Arizona and Nevada in the West and Florida in the South had increases of more than 10 percent. Several States had increases of between 5 and 10 percent, namely, California, Colorado, New Mexico, Utah, and Wyoming in the West; Delaware, Maryland, Texas, and Virginia in the South; Kansas and Michigan in the North Central Region; and New Jersey in the Northeastern 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.

School statistics more recent than those for the end of the school year 1950-1951 were not yet available for all States when these estimates were prepared. To obtain the estimates of net civilian migration for 1951-1952, therefore, it was necessary to extend the series on net migration on the basis of past trends. Revised population estimates for July 1, 1952, will

be published later this year when school statistics for the school year 1951-1952 become available as a basis for more reliable estimates of net migration during the year.

The procedure used in preparing the second set of estimates was the "vital rates method."¹ 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 ending 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 ending 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 ending 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 ending 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 procedure similar in all details to that described, except that the vital rates were centered on the census date and the estimate dates. This centering could not be done in preparing the estimates for 1952 because birth and death statistics for the last half of 1952 were not available at the time the estimates were prepared. When these estimates are revised later this year, birth and death rates will be centered on the census date and July 1, 1952. The estimates for 1950 and 1951 presented here differ slightly from those published in Current Population Reports, Series P-25, No. 62, as a result of a minor refinement in the application of the "vital rates method."

¹Donald 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. (1950 and 1951 only) represent a further average with another estimate, involving use of public utility data and 1950 Census data on persons per household. The estimates for Kansas (1950 and 1951 only) represent interpolations and adjustments of the results of the Kansas State Censuses taken each year as of March 31. The estimate for California for 1950 is based on the "migration-and-natural-increase method" only.

The birth and death statistics available for preparing these estimates were provisional figures classified on an occurrence basis. For the present purpose, they were adjusted to a residence basis and 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 one 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, percentagewise the errors in the population estimates are considerably smaller than those in the estimates of total population change.

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

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	July 1, 1952	April 1, 1950 (census)	Increase (+) or decrease (-), April 1, 1950 to July 1, 1952		Region, division, and State	July 1, 1952	April 1, 1950 (census)	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	WEST NORTH CENTRAL:				
REGIONS:					Minnesota.....	3,021,000	2,982,483	+38,000	+1.3
Northeastern States..	40,458,000	39,477,986	+980,000	+2.5	Iowa.....	2,645,000	2,621,073	+24,000	+0.9
North Central States..	45,803,000	44,460,762	+1,342,000	+3.0	Missouri.....	4,056,000	3,954,653	+102,000	+2.6
The South.....	48,616,000	47,197,088	+1,419,000	+3.0	North Dakota.....	600,000	619,636	-20,000	-3.2
The West.....	20,891,000	19,561,525	+1,329,000	+6.8	South Dakota.....	664,000	652,740	+11,000	+1.7
NORTHEASTERN STATES:					Nebraska.....	1,371,000	1,325,510	+46,000	+3.5
New England.....	9,509,000	9,314,453	+195,000	+2.1	Kansas.....	2,002,000	1,905,299	+97,000	+5.1
Middle Atlantic.....	30,949,000	30,163,533	+785,000	+2.6	SOUTH ATLANTIC:				
NORTH CENTRAL STATES:					Delaware.....	338,000	318,085	+20,000	+6.1
East North Central...	31,444,000	30,399,368	+1,045,000	+3.4	Maryland.....	2,526,000	2,343,001	+183,000	+7.8
West North Central...	14,359,000	14,061,394	+297,000	+2.1	Dist. of Columbia...	835,000	802,178	+33,000	+4.1
THE SOUTH:					Virginia.....	3,498,000	3,318,680	+180,000	+5.4
South Atlantic.....	22,073,000	21,182,335	+890,000	+4.2	West Virginia.....	1,951,000	2,005,552	-55,000	-2.7
East South Central...	11,397,000	11,477,181	-80,000	-0.7	North Carolina.....	4,180,000	4,061,929	+118,000	+2.9
West South Central...	15,146,000	14,537,572	+609,000	+4.2	South Carolina.....	2,130,000	2,117,027	+13,000	+0.6
THE WEST:					Georgia.....	3,515,000	3,444,578	+70,000	+2.0
Mountain.....	5,440,000	5,074,998	+365,000	+7.2	Florida.....	3,100,000	2,771,305	+329,000	+11.9
Pacific.....	15,451,000	14,486,527	+965,000	+6.7	EAST SOUTH CENTRAL:				
NEW ENGLAND:					Kentucky.....	2,916,000	2,944,806	-29,000	-1.0
Maine.....	884,000	913,774	-30,000	-3.3	Tennessee.....	3,257,000	3,291,718	-34,000	-1.0
New Hampshire.....	538,000	533,242	+5,000	+0.9	Alabama.....	3,051,000	3,061,743	-11,000	-0.4
Vermont.....	372,000	377,747	-6,000	-1.6	Mississippi.....	2,173,000	2,178,914	-6,000	-0.3
Massachusetts.....	4,795,000	4,690,514	+104,000	+2.2	WEST SOUTH CENTRAL:				
Rhode Island.....	817,000	791,896	+25,000	+3.2	Arkansas.....	1,876,000	1,909,511	-33,000	-1.7
Connecticut.....	2,103,000	2,007,280	+96,000	+4.8	Louisiana.....	2,816,000	2,683,516	+133,000	+4.9
MIDDLE ATLANTIC:					Oklahoma.....	2,265,000	2,233,351	+32,000	+1.4
New York.....	15,179,000	14,830,192	+348,000	+2.3	Texas.....	8,189,000	7,711,194	+477,000	+6.2
New Jersey.....	5,103,000	4,835,329	+267,000	+5.5	MOUNTAIN:				
Pennsylvania.....	10,667,000	10,498,012	+169,000	+1.6	Montana.....	591,000	591,024	(²)	(³)
EAST NORTH CENTRAL:					Idaho.....	608,000	588,637	+20,000	+3.3
Ohio.....	8,174,000	7,946,627	+228,000	+2.9	Wyoming.....	308,000	290,529	+17,000	+6.0
Indiana.....	4,104,000	3,934,224	+170,000	+4.3	Colorado.....	1,431,000	1,325,089	+106,000	+8.0
Illinois.....	8,918,000	8,712,176	+206,000	+2.4	New Mexico.....	725,000	681,187	+44,000	+6.5
Michigan.....	6,708,000	6,371,766	+337,000	+5.3	Arizona.....	859,000	749,587	+109,000	+14.6
Wisconsin.....	3,539,000	3,434,575	+105,000	+3.0	Utah.....	737,000	688,862	+49,000	+7.0
					Nevada.....	180,000	160,083	+20,000	+12.4
					PACIFIC:				
					Washington.....	2,467,000	2,378,963	+88,000	+3.7
					Oregon.....	1,594,000	1,521,341	+73,000	+4.8
					California.....	11,390,000	10,586,223	+804,000	+7.6

¹ Estimated total population of the United States including armed forces overseas, for July 1, 1952, is 156,981,000.

² Less than 1,000.

³ Less than 0.1.

Table 2.—ESTIMATES OF THE TOTAL AND CIVILIAN POPULATION OF REGIONS, DIVISIONS, AND STATES: JULY 1, 1950 AND 1951
 (Total population figures include persons in the armed forces stationed in each State and exclude members of the armed forces overseas. If 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, 1951	July 1, 1950	July 1, 1951	July 1, 1950	April 1, 1950
United States.....	153,383,000	151,228,000	151,082,000	150,196,000	149,634,000
REGIONS:					
Northeastern States.....	39,826,000	39,590,000	39,540,000	39,464,000	39,344,000
North Central States.....	45,050,000	44,670,000	44,797,000	44,576,000	44,369,000
The South.....	48,202,000	47,328,000	47,011,000	46,804,000	46,653,000
The West.....	20,305,000	19,640,000	19,734,000	19,352,000	19,269,000
NORTHEASTERN STATES:					
New England.....	9,351,000	9,321,000	9,242,000	9,274,000	9,261,000
Middle Atlantic.....	30,474,000	30,269,000	30,298,000	30,190,000	30,083,000
NORTH CENTRAL STATES:					
East North Central.....	30,866,000	30,553,000	30,697,000	30,488,000	30,337,000
West North Central.....	14,184,000	14,117,000	14,100,000	14,088,000	14,032,000
THE SOUTH:					
South Atlantic.....	21,760,000	21,236,000	21,084,000	20,933,000	20,860,000
East South Central.....	11,490,000	11,479,000	11,304,000	11,411,000	11,412,000
West South Central.....	14,952,000	14,612,000	14,622,000	14,460,000	14,380,000
THE WEST:					
Mountain.....	5,245,000	5,091,000	5,139,000	5,037,000	5,021,000
Pacific.....	15,060,000	14,549,000	14,595,000	14,316,000	14,248,000
NEW ENGLAND:					
Maine.....	891,000	909,000	884,000	907,000	912,000
New Hampshire.....	532,000	532,000	529,000	530,000	531,000
Vermont.....	372,000	377,000	371,000	378,000	378,000
Massachusetts.....	4,729,000	4,704,000	4,668,000	4,680,000	4,665,000
Rhode Island.....	795,000	789,000	769,000	775,000	774,000
Connecticut.....	2,031,000	2,011,000	2,020,000	2,005,000	2,001,000
MIDDLE ATLANTIC:					
New York.....	14,977,000	14,882,000	14,915,000	14,852,000	14,801,000
New Jersey.....	4,973,000	4,854,000	4,899,000	4,819,000	4,802,000
Pennsylvania.....	10,525,000	10,533,000	10,484,000	10,519,000	10,480,000
EAST NORTH CENTRAL:					
Ohio.....	8,034,000	7,967,000	8,018,000	7,959,000	7,938,000
Indiana.....	4,036,000	3,961,000	4,000,000	3,959,000	3,932,000
Illinois.....	8,800,000	8,767,000	8,722,000	8,722,000	8,672,000
Michigan.....	6,524,000	6,416,000	6,503,000	6,406,000	6,361,000
Wisconsin.....	3,472,000	3,442,000	3,449,000	3,441,000	3,433,000
WEST NORTH CENTRAL:					
Minnesota.....	2,984,000	2,974,000	2,980,000	2,973,000	2,981,000
Iowa.....	2,615,000	2,637,000	2,614,000	2,637,000	2,621,000
Missouri.....	4,042,000	3,990,000	4,005,000	3,988,000	3,952,000
North Dakota.....	603,000	619,000	603,000	619,000	620,000
South Dakota.....	646,000	655,000	640,000	650,000	650,000
Nebraska.....	1,343,000	1,332,000	1,338,000	1,328,000	1,322,000
Kansas.....	1,950,000	1,910,000	1,922,000	1,893,000	1,887,000
SOUTH ATLANTIC:					
Delaware.....	330,000	321,000	326,000	321,000	318,000
Maryland.....	2,453,000	2,359,000	2,373,000	2,322,000	2,306,000
Dist. of Columbia.....	811,000	806,000	771,000	774,000	769,000
Virginia.....	3,426,000	3,308,000	3,223,000	3,220,000	3,220,000
West Virginia.....	1,987,000	2,014,000	1,987,000	2,013,000	2,005,000
North Carolina.....	4,146,000	4,067,000	4,046,000	4,020,000	4,014,000
South Carolina.....	2,146,000	2,090,000	2,066,000	2,075,000	2,096,000
Georgia.....	3,494,000	3,451,000	3,408,000	3,411,000	3,402,000
Florida.....	2,968,000	2,820,000	2,885,000	2,777,000	2,729,000
EAST SOUTH CENTRAL:					
Kentucky.....	2,940,000	2,945,000	2,850,000	2,911,000	2,913,000
Tennessee.....	3,310,000	3,313,000	3,289,000	3,302,000	3,281,000
Alabama.....	3,049,000	3,049,000	3,001,000	3,041,000	3,053,000
Mississippi.....	2,191,000	2,172,000	2,163,000	2,157,000	2,164,000
WEST SOUTH CENTRAL:					
Arkansas.....	1,910,000	1,922,000	1,893,000	1,920,000	1,908,000
Louisiana.....	2,757,000	2,716,000	2,722,000	2,704,000	2,670,000
Oklahoma.....	2,268,000	2,235,000	2,231,000	2,221,000	2,218,000
Texas.....	8,017,000	7,739,000	7,776,000	7,615,000	7,584,000
MOUNTAIN:					
Montana.....	588,000	592,000	583,000	590,000	589,000
Idaho.....	589,000	589,000	587,000	588,000	588,000
Wyoming.....	295,000	290,000	285,000	283,000	282,000
Colorado.....	1,383,000	1,329,000	1,341,000	1,310,000	1,307,000
New Mexico.....	706,000	684,000	685,000	671,000	668,000
Arizona.....	806,000	755,000	790,000	747,000	742,000
Utah.....	708,000	693,000	702,000	689,000	687,000
Nevada.....	171,000	161,000	166,000	158,000	157,000
PACIFIC:					
Washington.....	2,427,000	2,381,000	2,345,000	2,322,000	2,317,000
Oregon.....	1,554,000	1,530,000	1,547,000	1,527,000	1,519,000
California.....	11,080,000	10,638,000	10,703,000	10,467,000	10,413,000