



Population Estimates and Projections

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ESTIMATES OF THE NUMBER OF HOUSEHOLDS FOR STATES: JULY 1, 1973 AND 1974

This report presents revised estimates of the total number of households and of husband-wife households (i.e., households headed by a married couple), for States for July 1, 1973, and provisional estimates for July 1, 1974. The 1974 figures are designated as provisional since they are based on 1974 provisional estimates of the population for States.

The number of households varies among the States approximately in the same way as the population of the States since the average size of household varies over a relatively narrow range. In 1974 California continued to lead all States in the total number of households, with an estimated 7.4 million. It was followed by New York, with 6.2 million. Alaska had the smallest estimated number of households in 1974 (93,000).

The largest percentage increase in the total number of households between 1970 and 1974 occurred for the State of Arizona. The number of households increased by 30 percent during this period, from 539,000 to 701,000. For most States the average annual percent of change in the number of households during the period 1970 to 1974 exceeded the annual rate of change during the 1960 to 1970 decade. This difference reflects both the greater national rate of increase in the population of adult ages (the ages where household formation occurs) in the more recent period and the increasing tendency among both young and old adults to establish households as primary individuals. Primary individuals are persons who maintain their own households while living entirely alone or with persons not related to them.

During the period 1970 to 1974 the number of households in the States tended to increase by about 5 to 9 percentage points more than the total population of the States. Nationally, the number of households increased by 11 percent while the U.S. resident population grew by 4 percent. During the same period the number of households in the States tended to increase by only about 1 to 4 percentage points (except for the District of Columbia) more than the adult population (18 years and over) of the States, the national average difference being 2.8 percentage points. Differences between States in the growth of households are largely attributable to differences in the growth of the population of adult ages therefore. Although Florida had the largest growth for the total population, the increase in the number of households between 1970 and 1974 for California surpassed that for Florida by 242,000. California's greater increase in households was caused primarily by a larger increase in the adult population, although the larger proportion of these adults who set up households as primary individuals also contributed to the increase.

METHOD OF ESTIMATION

The method of preparing the 1973 and 1974 estimates of households for States shown in this report was generally as follows: Percentages of persons who were household heads ("headship rates") and other relevant percentages were calculated from the 1970 census, by age, for each State. These percentages were applied to State population estimates for 1973 and 1974, by age, to obtain preliminary estimates of the

number of households for each State within each age group. These preliminary 1973 and 1974 estimates were then adjusted proportionately to the number of households in the United States on July 1, 1973 and 1974 (estimated from Current Population Survey figures), to yield the final 1973 and 1974 estimates for the States.

The specific steps involved are shown below:

1. Data for both sexes combined, by State, by age (under 14, 14 to 19, 20 to 24, 25 to 44, 45 to 64, and 65 and over) for the following categories were obtained from the 1970 census:

- (t) Total persons in age group
- (a) Heads of husband-wife families
- (b) Other family heads
- (c) Primary individuals
- (d) Household members not heads
- (e) Persons not in households

2. The following household headship rates and other proportions were calculated by State, by age, from these data:

$$\frac{(a)}{(t)}, \frac{(b)}{(t)}, \frac{(c)}{(t)}, \frac{(d)}{(t)}, \frac{(e)}{(t)}$$

3. Previously available State population estimates for 1973 and 1974 by age (as above) were then recorded.

4. Preliminary estimates of the 1973 and 1974 population in each class, (a) to (e), by age, by State, were calculated (step 2 x step 3).

5. The preliminary estimates (step 4) were summed over all States to United States totals, for each age, for each class, (a) to (e).

6. Estimates for the United States for 1973 and 1974, by age, for each class, (a) to (e), were recorded. These estimates were basically the statistics obtained from the Current Population Surveys for March 1973 and March 1974 (with an allowance added to include resident Armed Forces in military barracks and the institutional population), converted to represent July data by a proportional adjustment on the basis of the change in the resident population between March 1973 and July 1973 and between March 1974 and July 1974.

7. Adjustment factors by age, for each class, (a) to (e), were calculated (step 6 ÷ step 5). These factors

correspond to a difference of +2.3 percent for 1973 and +2.8 percent for 1974 in the total number of households estimated in step 5 and in step 6.

8. The adjustment factors derived in step 7 were applied to the preliminary estimates of the 1973 and 1974 population in each class, (a) to (e), by age, by State (step 7 x step 4).

The data for 1970 used in the preparation of this report are from the 1970 Census of Population, Vol. 1, Characteristics of the Population, Parts 2 through 52, tables 138, 152, and 153. The 1973 and 1974 estimates of the population of States are consistent with Current Population Reports, Series P-25, No. 539, Estimates of the Population of States, by Age: 1973 and 1974. The 1973 and 1974 estimates of the number of households for the United States for March 1973 and 1974 are given in Current Population Reports, Series P-20, Nos. 258 and 276.

EVALUATION OF THE METHOD

The accuracy of the estimates depends on the accuracy of the data on which they are based (that is, the 1970 census data for States, the postcensal national household estimates, and the postcensal State population estimates), and on the validity of the assumptions inherent in the method by which these data were combined to produce the estimates. The assumptions are: (1) that the interstate differences in household headship rates in the 1970 census persisted over the 1970-to-1974 period; (2) that changes in headship rates for States occurred uniformly between 1970 and 1974, that is, changes in the headship rates, by age, were the same for each State as for the United States. The validity of these assumptions were subjected to indirect and direct checks, as follows:

A study was made of the success with which the number of households for States in 1970, as given by the Census, could be estimated from the 1970 census population for States and the 1960 census headship rates for States, using a method corresponding basically to the method described above. Note that postcensal population estimates were not used in this test, as was done in the current calculations. The 1960 headship rates were applied to the 1970 census State population figures to obtain preliminary estimates of the number of households for States within each age group. These preliminary 1970 estimates were then adjusted proportionately so that they added to the total number of households for the United States (by age of head) as given in the 1970 census. (This step involves the

assumption of uniform changes in headship rates.) The effect of this step was an upward adjustment of 5.9 percent in the preliminary estimates of the total number of households, with variations according to age of head and type of household.

The adjusted 1970 estimates were then compared with the 1970 census figures on households for States. The results of this study are shown in table A. The differences between the adjusted 1970 estimates and the 1970 census figures were less than 4 percent in all but a few States. The average (mean) deviation disregarding sign was 1.9 percent over all States. These results suggest that, for most States, the assumptions inherent in the estimating method held reasonably true for the 1960-to-1970 period.

Comparison of the preliminary 1970 estimate and the adjusted 1970 estimate with the number of households for each State given in the 1970 census indicated that making the adjustment to national household totals provided an improved estimate for the great majority of States. For 42 out of 50 States, and for the District of Columbia, the adjusted 1970 estimate was closer to the 1970 census figure for the State than was the preliminary estimate. For seven States, the adjusted estimate was worse than the preliminary estimate and for one other State the adjusted estimate was about the same as the preliminary estimate. However, for none of

these eight States did the adjusted estimate differ by more than 5.2 percent from the number of households given in the 1970 census.

The accuracy of the estimates as indicated by the results shown in table A reflects only the effect on the estimates of the assumptions that were made concerning changes in household headship rates. Table A does not measure the additional effect of using postcensal estimates of age groups, by States, which themselves are subject to a fair degree of error. A priori, it is to be expected that the use of such age estimates would tend to increase the average error of the household estimates, but the exact contribution of this component to the error is not known.

A direct check for the current time period was made by comparing the distribution of households by regions shown in the present "nonsurvey" estimates with figures based on the Current Population Survey. A distribution of households by regions was computed from Current Population Survey data for 1973 and 1974. This percentage distribution was then applied to the estimated total number of households for July 1, 1973 and 1974, and the resulting Current Population Survey estimates of households by regions were compared with the corresponding figures obtained from the nonsurvey household estimates for States. The results of

Table A. PERCENT DEVIATION OF 1970 POSTCENSAL ESTIMATES OF HOUSEHOLDS FROM 1970 CENSUS COUNTS OF HOUSEHOLDS FOR STATES

Percent deviation of estimate from census figure ¹	Total households	Husband-wife households
Total, 50 States and the District of Columbia.....	51	51
0 to 1.9.....	31	44
2.0 to 3.9.....	16	4
4.0 to 5.9.....	4	1
6.0 to 7.9.....	-	1
8.0 and over.....	-	1
Mean deviation.....	1.91	1.32

¹ Represents zero.
Without regard to sign.

this comparison are shown in table B. The distribution of households by regions is quite similar in the non-survey estimates and in the Current Population Survey data. Table B includes the effect of errors in both the

postcensal population estimates for regions and (partly) the assumptions concerning changes in household headship rates.

Table B. DISTRIBUTION OF HOUSEHOLDS BY REGIONS IN THE NONSURVEY ESTIMATES AND IN THE CURRENT POPULATION SURVEY: 1973 AND 1974

(Numbers in thousands)

Region	1974		1973		Deviation of nonsurvey estimate from CPS			
	Nonsurvey estimates (provisional)	CPS ¹	Non survey estimates	CPS ¹	1974		1973	
					Number	Percent	Number	Percent
United States..	70,236	70,236	68,737	68,737	-	-	-	-
Northeast.....	16,535	16,366	16,374	16,329	+169	+1.0	+45	+0.3
North Central.....	18,943	19,007	18,660	18,644	-64	-0.3	+16	+0.1
South.....	21,916	21,961	21,306	21,284	-45	-0.2	+22	+0.1
West.....	12,841	12,902	12,398	12,479	-61	-0.5	-81	-0.6

- Represents zero.

¹See text for methodological note.

RELATED REPORTS

Statistics on households in 1973 and 1974 for the United States based on current surveys are presented in Current Population Reports, Series P-20, Nos. 258 and 276. Population estimates for States are presented in Current Population Reports, Series P-25, No. 539.

DEFINITIONS AND EXPLANATIONS

Household. A household consists of all the persons who occupy a housing unit. A house, an apartment or other group of rooms, or a single room, is regarded as a housing unit when it is occupied or intended for occupancy as separate living quarters; that is, when the occupants do not live and eat with any other persons in the structure and there is either (1) direct access from the outside or through a common hall or (2) a kitchen or cooking equipment for the exclusive use of the occupants.

A household includes the related family members and all the unrelated persons, if any, such as lodgers, foster children, wards, or employees who share the housing unit. A person living alone in a housing unit, or a group of unrelated persons sharing a housing unit as partners, is also counted as a household. The count of households excludes group quarters, such as rooming houses, military barracks, and institutions.

A "husband-wife" household is a household in which the head is a married man whose wife lives with him.

ROUNDING OF ESTIMATES

Estimates presented in the tables of this report have been rounded to the nearest thousand without being adjusted to group totals which are independently rounded. Percentages are based on unrounded numbers.

Table 1. ESTIMATES OF THE NUMBER OF HOUSEHOLDS IN THE UNITED STATES, BY STATES, JULY 1, 1973 AND 1974, WITH COMPARABLE FIGURES FOR APRIL 1, 1970 AND 1960

Region, division, and State	Total households							Husband-wife households 1974 (provisional)	Husband-wife households, 1973	
	July 1, 1974 (provisional)	July 1, 1973	April 1, 1970 (census)	April 1, 1960 (census)	Change 1970 to 1974		Average annual percent of change ¹			
					Number	Percent	1970 to 1974			1960 to 1970
United States.....	70,236,000	68,737,000	63,449,747	53,021,061	+6,786,000	+10.7	+2.6	+1.8	47,021,000	46,651,000
REGIONS:										
Northeastern States.....	16,535,000	16,374,000	15,482,778	13,521,070	+1,053,000	+6.8	+1.7	+1.4	10,829,000	10,866,000
North Central States.....	18,943,000	18,660,000	17,537,256	15,377,361	+1,406,000	+8.0	+2.0	+1.3	12,997,000	12,965,000
South.....	21,916,000	21,306,000	19,258,163	15,503,321	+2,658,000	+13.8	+3.3	+2.2	14,902,000	14,656,000
West.....	12,841,000	12,398,000	11,171,550	8,619,309	+1,670,000	+14.9	+3.6	+2.6	8,294,000	8,164,000
NORTHEAST:										
New England.....	3,971,000	3,918,000	3,645,325	3,115,910	+325,000	+8.9	+2.2	+1.6	2,652,000	2,650,000
Middle Atlantic.....	12,565,000	12,456,000	11,837,453	10,406,160	+727,000	+6.1	+1.5	+1.3	8,177,000	8,216,000
NORTH CENTRAL:										
East North Central.....	13,334,000	13,148,000	12,382,927	10,709,659	+951,000	+7.7	+1.9	+1.5	9,155,000	9,145,000
West North Central.....	5,609,000	5,512,000	5,154,329	4,667,702	+455,000	+8.8	+2.2	+1.0	3,842,000	3,821,000
SOUTH:										
South Atlantic.....	10,910,000	10,561,000	9,438,213	7,267,832	+1,472,000	+15.6	+3.7	+2.6	7,350,000	7,204,000
East South Central.....	4,282,000	4,204,000	3,867,689	3,307,354	+414,000	+10.7	+2.6	+1.6	2,965,000	2,937,000
West South Central.....	6,724,000	6,541,000	5,952,261	4,928,135	+772,000	+13.0	+3.1	+1.9	4,588,000	4,516,000
WEST:										
Mountain.....	3,057,000	2,937,000	2,518,324	1,975,581	+539,000	+21.4	+5.0	+2.4	2,105,000	2,055,000
Pacific.....	9,784,000	9,461,000	8,653,226	6,643,728	+1,131,000	+13.1	+3.1	+2.6	6,189,000	6,109,000
NEW ENGLAND:										
Maine.....	337,000	332,000	302,923	280,355	+35,000	+11.4	+2.8	+0.8	233,000	232,000
New Hampshire.....	261,000	254,000	225,378	180,020	+35,000	+15.7	+3.7	+2.2	182,000	179,000
Vermont.....	150,000	146,000	132,098	110,732	+18,000	+13.6	+3.3	+1.8	103,000	101,000
Massachusetts.....	1,906,000	1,879,000	1,759,692	1,534,732	+146,000	+8.3	+2.0	+1.4	1,232,000	1,232,000
Rhode Island.....	307,000	312,000	291,965	257,335	+15,000	+5.0	+1.3	+1.3	203,000	210,000
Connecticut.....	1,010,000	995,000	933,269	752,736	+77,000	+8.2	+2.0	+2.2	697,000	696,000
MIDDLE ATLANTIC:										
New York.....	6,234,000	6,182,000	5,913,861	5,248,261	+320,000	+5.4	+1.3	+1.2	3,889,000	3,920,000
New Jersey.....	2,389,000	2,365,000	2,218,182	1,806,295	+170,000	+7.7	+1.9	+2.1	1,643,000	1,646,000
Pennsylvania.....	3,942,000	3,908,000	3,705,410	3,350,604	+237,000	+6.4	+1.6	+1.0	2,645,000	2,651,000
EAST NORTH CENTRAL:										
Ohio.....	3,515,000	3,473,000	3,289,432	2,852,321	+226,000	+6.9	+1.7	+1.4	2,434,000	2,434,000
Indiana.....	1,747,000	1,718,000	1,609,494	1,387,910	+137,000	+8.5	+2.1	+1.5	1,234,000	1,228,000
Illinois.....	3,705,000	3,674,000	3,502,138	3,084,738	+203,000	+5.8	+1.4	+1.3	2,448,000	2,464,000
Michigan.....	2,897,000	2,845,000	2,653,059	2,238,650	+244,000	+9.2	+2.2	+1.7	2,017,000	2,006,000
Wisconsin.....	1,470,000	1,438,000	1,328,804	1,146,040	+141,000	+10.6	+2.6	+1.5	1,022,000	1,013,000
WEST NORTH CENTRAL:										
Minnesota.....	1,276,000	1,244,000	1,153,946	991,981	+122,000	+10.6	+2.6	+1.5	876,000	867,000
Iowa.....	967,000	956,000	896,311	841,357	+70,000	+7.8	+1.9	+0.6	674,000	674,000
Missouri.....	1,639,000	1,617,000	1,520,567	1,359,826	+119,000	+7.8	+1.9	+1.1	1,095,000	1,093,000
North Dakota.....	201,000	197,000	181,613	173,362	+19,000	+10.5	+2.6	+0.5	142,000	141,000
South Dakota.....	220,000	216,000	200,807	194,821	+19,000	+9.5	+2.3	+0.3	153,000	152,000
Nebraska.....	523,000	512,000	473,721	433,448	+49,000	+10.3	+2.5	+0.9	358,000	355,000
Kansas.....	784,000	771,000	727,364	672,907	+57,000	+7.8	+1.9	+0.8	543,000	540,000
SOUTH ATLANTIC:										
Delaware.....	183,000	180,000	164,804	128,582	+418,000	+11.0	+2.7	+2.5	126,000	126,000
Maryland.....	1,307,000	1,282,000	1,175,073	863,003	+132,000	+11.3	+2.7	+3.1	893,000	889,000
District of Columbia.....	277,000	272,000	262,538	252,066	+14,000	+5.4	+1.3	+0.4	110,000	113,000
Virginia.....	1,559,000	1,518,000	1,390,636	1,074,442	+169,000	+12.1	+2.9	+2.6	1,078,000	1,064,000
West Virginia.....	595,000	589,000	547,214	521,142	+48,000	+8.8	+2.1	+0.5	413,000	411,000
North Carolina.....	1,699,000	1,659,000	1,509,564	1,204,715	+189,000	+12.5	+3.0	+2.3	1,195,000	1,179,000
South Carolina.....	844,000	816,000	734,373	603,551	+109,000	+14.9	+3.5	+2.0	578,000	564,000
Georgia.....	1,541,000	1,504,000	1,369,225	1,070,287	+171,000	+12.5	+3.0	+2.5	1,044,000	1,032,000
Florida.....	2,906,000	2,741,000	2,284,786	1,550,044	+621,000	+27.2	+6.1	+3.9	1,913,000	1,826,000
EAST SOUTH CENTRAL:										
Kentucky.....	1,082,000	1,062,000	983,665	851,867	+99,000	+10.0	+2.4	+1.4	760,000	752,000
Tennessee.....	1,353,000	1,327,000	1,213,187	1,003,301	+140,000	+11.5	+2.8	+1.9	942,000	933,000
Alabama.....	1,139,000	1,117,000	1,034,113	884,116	+105,000	+10.2	+2.5	+1.6	787,000	778,000
Mississippi.....	707,000	697,000	636,724	568,070	+70,000	+11.1	+2.7	+1.1	476,000	473,000
WEST SOUTH CENTRAL:										
Arkansas.....	696,000	680,000	615,424	523,552	+80,000	+13.0	+3.1	+1.6	482,000	475,000
Louisiana.....	1,161,000	1,141,000	1,052,038	892,344	+109,000	+10.4	+2.5	+1.6	771,000	766,000
Oklahoma.....	952,000	926,000	850,803	734,593	+101,000	+11.9	+2.9	+1.5	644,000	633,000
Texas.....	3,915,000	3,793,000	3,433,996	2,777,646	+481,000	+14.0	+3.3	+2.1	2,691,000	2,642,000
MOUNTAIN:										
Montana.....	247,000	241,000	217,304	202,240	+30,000	+13.7	+3.3	+0.7	168,000	166,000
Idaho.....	258,000	248,000	218,960	193,839	+39,000	+17.7	+4.2	+1.2	186,000	181,000
Wyoming.....	120,000	116,000	104,600	99,187	+16,000	+14.8	+3.5	+0.5	85,000	83,000
Colorado.....	838,000	810,000	690,928	529,424	+147,000	+21.3	+4.9	+2.7	563,000	555,000
New Mexico.....	346,000	333,000	289,389	251,209	+57,000	+19.6	+4.6	+1.4	238,000	233,000
Arizona.....	701,000	663,000	539,157	366,630	+162,000	+30.0	+6.7	+3.9	482,000	463,000
Utah.....	348,000	337,000	297,934	241,532	+50,000	+16.8	+4.0	+2.1	255,000	250,000
Nevada.....	200,000	188,000	160,052	91,520	+40,000	+24.7	+5.6	+5.6	128,000	124,000
PACIFIC:										
Washington.....	1,212,000	1,173,000	1,105,587	894,168	+107,000	+9.7	+2.4	+2.1	805,000	793,000
Oregon.....	802,000	773,000	691,631	558,222	+111,000	+16.0	+3.8	+2.1	542,000	530,000
California.....	7,437,000	7,191,000	6,573,861	4,981,024	+863,000	+13.1	+3.2	+2.8	4,608,000	4,553,000
Alaska.....	93,000	90,000	79,059	57,250	+14,000	+17.2	+4.1	+3.2	67,000	67,000
Hawaii.....	239,000	234,000	203,088	153,064	+36,000	+17.9	+4.2	+2.8	166,000	166,000

¹Computed by the formula for continuous compounding.