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Population Estimates and Projections

U.S. DEPARTMENT OF COMMERCE/Bureau of the Census

ESTIMATES OF THE NUMBER OF HOUSEHOLDS BY STATE JULY 1, 1968

(Household estimates for States for 1967 are presented in Current Population Reports, Series P-25, No. 425)

In July 1968, there were an estimated 60.7 million households in the United States. California led all the States in total number of households with about 6.2 million, and in husband-wife households with about 4.2 million. Alaska had the smallest number of both total households (66,000) and husband-wife households (47,000).

Differences between States with respect to increase in the number of households between 1960 and 1968 are largely attributable to differences in population growth. California, with the largest population increase, led all States with a gain of about 1.3 million households for the 8-year period. For the majority of States, the average annual percent of increase in the number of households was smaller in the period 1960-1968 than in the period 1950-1960.

METHOD OF ESTIMATION

The method of preparing the 1968 estimates of households by State shown in this report was generally as follows: Percentages of persons who were household heads ("headship rates") and other relevant percentages were developed from the 1960 census, by age, by State. These percentages were applied to 1968 State population estimates, by age, to obtain preliminary estimates of the number of households by State within each age group. These preliminary 1968 estimates were then adjusted to the number of households in the United States on July 1, 1968 (estimated from

Current Population Survey figures), to yield the final 1968 estimates by States.

The specific steps involved are shown below:

1. Data for both sexes combined from the 1960 census were posted 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:

- (t) Total persons in age group
- (a) Heads of husband-wife primary families
- (b) Other primary 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:

$\frac{(a)}{(t)}$	$\frac{(b)}{(t)}$	$\frac{(c)}{(t)}$	$\frac{(d)}{(t)}$	$\frac{(e)}{(t)}$
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3. State population estimates for 1968 by age (as above) were posted.

4. Preliminary estimates of the 1968 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 by age, for each class, (a) to (e).

6. Estimates for the United States for 1968, by age, for each class, (a) to (e), were posted. These estimates were basically the statistics obtained from the March 1968 Current Population Survey (with an allowance added to include resident Armed Forces in military barracks) which were converted to the July date by ratio adjustment to the July 1, 1968 population estimates.

7. Adjustment factors by age, for each class, (a) to (e), were calculated (step 6 ÷ step 5). The effect of this step was an upward adjustment of 4.1 percent in the total number of households estimated in step 5.

8. Adjustment factors derived in step 7 were applied to preliminary estimates of the 1968 population in each class, (a) to (e), by age, by State (step 7 x step 4).

The data for 1960 used in the preparation of this report are from the 1960 Census of Population, Vol. 1, Characteristics of the Population, Parts 2 through 52, tables 96, 105, and 106. The 1968 estimates of population by States are consistent with Current Population Reports, Series P-25, No. 437, Estimates of the Population of States, by Age: 1968. The 1968 estimates of the number of households for the United States for July 1 used to develop adjustment factors were derived by adjusting data from Current Population Reports, Series P-20, No. 187, Marital Status and Family Status: March 1968, to the total resident population for July 1968.

EVALUATION OF THE METHOD

The accuracy of the estimates depends on the accuracy of the data on which they are based (that is, the national household estimates and State population estimates), and on the validity of the assumptions inherent in the method by which these data were joined to produce the estimates. The assumptions are: (1) that the interstate differences in household headship rates in the 1960 census persisted over the 1960 to 1968 period; (2) that changes in headship rates by States occurred uniformly, that is, that between 1960 and 1968 the trends in the headship rates, by age, were the same for each State as for the United States. The validity of these assumptions was subjected to indirect and direct checks, as follows:

A study was made of the success with which the number of households by States in 1960, as given by the Census, could be estimated from the information on the 1960 census population by States and the 1950 census headship rates, by States, using a method corresponding to the method described

above. The 1950 headship rates were applied to the 1960 census State population figures to obtain preliminary estimates of the number of households by State, within each age group. These preliminary 1960 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 1960 census. (This step involves the assumption of uniform changes in headship rates.) The effect of this step was an upward adjustment of 9.9 percent in the preliminary estimates of the number of households with the adjustment varying according to age of head and type of household.

The adjusted 1960 estimates were then compared with the 1960 census figures on households by State. The results of this study are shown in table A. The difference between the adjusted 1960 estimates and the 1960 census was less than 4 percent in all but a few States. The average (mean) deviation disregarding sign was 2.7 percent over all States. These results suggest that, for most States, the assumptions inherent in the estimating method held reasonably true for the 1950-to-1960 period.

Table A.--DISTRIBUTION OF STATES BY PERCENT DEVIATION OF 1960 ESTIMATE OF HOUSEHOLDS FROM 1960 CENSUS NUMBER OF HOUSEHOLDS

Percent deviation of 1960 estimate from 1960 Census figure	Total households	Husband-wife households
Total, 50 States and the District of Columbia...	51	51
0 to 1.9.....	24	22
2.0 to 3.9.....	15	17
4.0 to 5.9.....	7	8
6.0 to 7.9.....	4	2
8.0 and over.....	1	2
Mean deviation.....	2.68	2.91

Comparison of the preliminary 1960 estimate and the adjusted 1960 estimate with the number of households for each State given in the 1960 census indicated that making the adjustment to national household totals provided an improved estimate for the great majority of States. For 43 out of 50 States, and for the District of Columbia, the adjusted 1960 estimate was definitely better than the preliminary estimate; that is, the adjusted estimate was closer to the 1960 census figure for the State than was the preliminary estimate. For six States, the adjusted estimate was worse than the preliminary estimate and for one other State the adjusted estimate was not much better than the preliminary estimate. However, for none of these

seven States did the adjusted estimate differ by more than 7.4 percent from the number of households given in the 1960 census.

A direct check for the current time period was made by comparing the distribution of households by region shown in the present estimates with figures based on the Current Population Survey. A distribution of households by region was computed from an average of the Current Population Survey data for 1967 to 1969. This percentage distribution was then applied to the estimated total households for July 1, 1968, and the resulting estimates of households by region were compared with the corresponding figures obtained from the State household estimates. The results of this comparison are shown in table B. The distribution of households by region is quite similar in the estimates and in the Current Population Survey data.

Table B.--DISTRIBUTION OF HOUSEHOLDS BY REGION, IN THE 1968 ESTIMATES AND IN THE CURRENT POPULATION SURVEY

(Numbers in thousands)

Region	1968 estimates	Average of 1967-1969 CPS ¹	Difference between 1968 estimates and 3-year average	
			Number	Per cent
United States..	60,726	60,726	-	-
Northeast.....	14,873	15,082	-209	-1.4
North Central....	16,931	17,021	-90	-0.5
South.....	18,315	18,034	+281	+1.5
West.....	10,607	10,588	+19	+0.2

- Represent zero.

¹ See text.

The accuracy of the estimates as indicated by the results shown in tables A and B 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 State, 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.

An evaluation of the estimates by States for selected age groups in the 1950 decade is presented in "Accuracy of Methods of Preparing

Postcensal Population Estimates for States and Local Areas," Meyer Zitter and Henry S. Shryock, Jr., Demography, Vol. 1, No. 1, 1964, table 7.¹

RELATED REPORTS

Household estimates for States for 1967 are presented in Current Population Reports, Series P-25, No. 425, and household projections for States for 1970 and 1975 are presented in Current Population Reports, Series P-25, No. 387. Statistics on households in 1968 for the United States based on current surveys are presented in Current Population Reports, Series P-20, No. 191. Population estimates for States are presented in Current Population Reports, Series P-25, No. 437.

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.

¹ See also section "Accuracy of Estimates," Current Population Reports, Series P-25, No. 384.

Table 1.--ESTIMATES OF THE NUMBER OF HOUSEHOLDS BY STATES, FOR THE UNITED STATES, JULY 1, 1968, WITH COMPARABLE FIGURES FOR APRIL 1, 1960 AND 1950

Region, division, and State	Total households							Husband-wife households, 1968
	July 1, 1968	April 1, 1960 (census)	April 1, 1950 (census) ¹	Change, 1960 to 1968		Average annual percent of change		
				Number	Percent	1960 to 1968	1950 to 1960	
United States.....	60,726,000	53,021,061	43,000,477	+7,705,000	+14.5	+1.6	+2.1	43,442,000
REGIONS:								
Northeast.....	14,873,000	13,521,070	11,239,605	+1,352,000	+10.0	+1.2	+1.8	10,451,000
North Central.....	16,931,000	15,377,361	12,982,709	+1,554,000	+10.1	+1.2	+1.7	12,366,000
South.....	18,315,000	15,503,321	12,635,623	+2,812,000	+18.1	+2.0	+2.0	13,316,000
West.....	10,607,000	8,619,309	6,142,540	+1,987,000	+23.1	+2.5	+3.4	7,309,000
NORTHEAST:								
New England.....	3,437,000	3,115,910	2,616,797	+321,000	+10.3	+1.2	+1.7	2,434,000
Middle Atlantic.....	11,437,000	10,405,160	8,622,808	+1,031,000	+9.9	+1.1	+1.9	8,017,000
NORTH CENTRAL:								
East North Central.....	11,901,000	10,709,659	8,829,542	+1,191,000	+11.1	+1.3	+1.9	8,734,000
West North Central.....	5,030,000	4,667,702	4,153,167	+363,000	+7.8	+0.9	+1.2	3,632,000
SOUTH:								
South Atlantic.....	8,760,000	7,267,832	5,540,342	+1,492,000	+20.5	+2.3	+2.7	6,336,000
East South Central.....	3,758,000	3,307,354	2,991,927	+451,000	+13.6	+1.5	+1.0	2,783,000
West South Central.....	5,796,000	4,928,135	4,103,354	+868,000	+17.6	+2.0	+1.8	4,197,000
WEST:								
Mountain.....	2,379,000	1,975,581	1,446,725	+403,000	+20.4	+2.2	+3.1	1,728,000
Pacific.....	8,228,000	6,643,728	4,695,815	+1,585,000	+23.8	+2.6	+3.5	5,581,000
NEW ENGLAND:								
Maine.....	291,000	280,355	254,668	+10,000	+3.7	+0.4	+1.0	210,000
New Hampshire.....	212,000	180,020	155,174	+32,000	+17.5	+2.0	+1.5	154,000
Vermont.....	126,000	110,732	103,538	+15,000	+14.0	+1.6	+0.7	92,000
Massachusetts.....	1,648,000	1,534,732	1,307,450	+113,000	+7.4	+0.9	+1.6	1,134,000
Rhode Island.....	278,000	257,335	225,558	+21,000	+8.0	+0.9	+1.3	193,000
Connecticut.....	883,000	752,736	570,409	+130,000	+17.3	+1.9	+2.8	651,000
MIDDLE ATLANTIC:								
New York.....	5,749,000	5,248,261	4,329,699	+500,000	+9.5	+1.1	+1.9	3,886,000
New Jersey.....	2,102,000	1,806,295	1,374,477	+296,000	+16.4	+1.8	+2.7	1,554,000
Pennsylvania.....	3,586,000	3,350,604	2,918,632	+235,000	+7.0	+0.8	+1.4	2,577,000
EAST NORTH CENTRAL:								
Ohio.....	3,187,000	2,852,321	2,314,629	+335,000	+11.7	+1.3	+2.1	2,366,000
Indiana.....	1,544,000	1,387,910	1,169,306	+156,000	+11.3	+1.3	+1.7	1,158,000
Illinois.....	3,283,000	3,084,728	2,585,772	+298,000	+9.7	+1.1	+1.8	2,391,000
Michigan.....	2,540,000	2,238,690	1,791,651	+302,000	+13.5	+1.5	+2.2	1,898,000
Wisconsin.....	1,246,000	1,146,040	968,184	+100,000	+8.8	+1.0	+1.7	921,000
WEST NORTH CENTRAL:								
Minnesota.....	1,096,000	991,981	845,733	+104,000	+10.5	+1.2	+1.6	790,000
Iowa.....	879,000	841,357	780,999	+37,000	+4.5	+0.5	+0.7	644,000
Missouri.....	1,486,000	1,359,826	1,198,977	+126,000	+9.3	+1.1	+1.3	1,046,000
North Dakota.....	180,000	173,362	162,184	+7,000	+4.1	+0.5	+0.7	134,000
South Dakota.....	198,000	194,821	182,981	+3,000	+1.8	+0.2	+0.6	146,000
Nebraska.....	457,000	433,448	394,615	+24,000	+5.5	+0.7	+0.9	334,000
Kansas.....	734,000	672,907	587,678	+61,000	+9.0	+1.0	+1.4	538,000
SOUTH ATLANTIC:								
Delaware.....	152,000	128,582	90,361	+24,000	+18.6	+2.1	+3.5	112,000
Maryland.....	1,041,000	863,003	640,526	+178,000	+20.6	+2.3	+3.0	775,000
District of Columbia.....	263,000	252,066	224,099	+11,000	+4.5	+0.5	+1.2	130,000
Virginia.....	1,290,000	1,074,442	845,716	+216,000	+20.1	+2.2	+2.4	952,000
West Virginia.....	550,000	521,142	518,736	+28,000	+5.5	+0.6	(2)	404,000
North Carolina.....	1,441,000	1,204,715	994,441	+236,000	+19.6	+2.2	+1.9	1,091,000
South Carolina.....	721,000	603,551	514,672	+118,000	+19.5	+2.2	+1.6	527,000
Georgia.....	1,287,000	1,070,287	889,809	+216,000	+20.2	+2.2	+1.8	942,000
Florida.....	2,015,000	1,550,044	821,982	+465,000	+30.0	+3.2	+6.3	1,403,000
EAST SOUTH CENTRAL:								
Kentucky.....	944,000	851,867	779,669	+92,000	+10.9	+1.2	+0.9	704,000
Tennessee.....	1,169,000	1,003,301	871,277	+166,000	+16.6	+1.9	+1.4	873,000
Alabama.....	1,006,000	884,116	786,205	+122,000	+13.8	+1.6	+1.2	744,000
Mississippi.....	638,000	568,070	554,776	+70,000	+12.4	+1.4	+0.2	462,000
WEST SOUTH CENTRAL:								
Arkansas.....	604,000	523,552	524,708	+81,000	+15.4	+1.7	(2)	443,000
Louisiana.....	1,047,000	892,344	724,534	+155,000	+17.4	+1.9	+2.1	740,000
Oklahoma.....	845,000	734,593	663,292	+110,000	+15.0	+1.7	+1.0	601,000
Texas.....	3,300,000	2,777,646	2,190,820	+522,000	+18.8	+2.1	+2.4	2,413,000
MOUNTAIN:								
Montana.....	218,000	202,240	175,614	+15,000	+7.5	+0.9	+1.4	154,000
Idaho.....	220,000	193,839	169,264	+26,000	+13.3	+1.5	+1.4	166,000
Wyoming.....	102,000	99,187	84,288	+3,000	+3.0	+0.4	+1.6	74,000
Colorado.....	648,000	529,424	391,577	+118,000	+22.3	+2.4	+3.0	461,000
New Mexico.....	272,000	251,209	177,216	+21,000	+8.2	+1.0	+3.5	203,000
Arizona.....	487,000	366,630	210,403	+120,000	+32.8	+3.4	+5.6	351,000
Utah.....	293,000	241,532	188,075	+52,000	+21.3	+2.3	+2.5	224,000
Nevada.....	140,000	91,520	50,288	+48,000	+52.9	+5.1	+6.0	95,000
PACIFIC:								
Washington.....	1,073,000	894,168	736,988	+179,000	+20.0	+2.2	+1.9	752,000
Oregon.....	665,000	558,222	479,294	+107,000	+19.1	+2.1	+1.5	476,000
California.....	6,232,000	4,981,024	3,336,391	+1,251,000	+25.1	+2.7	+4.0	4,171,000
Alaska.....	66,000	57,250	31,047	+9,000	+15.1	+1.7	+6.1	47,000
Hawaii.....	193,000	153,064	112,095	+40,000	+26.0	+2.8	+3.1	135,000

² Less than 500 or 0.05 percent.

¹ Alaska and Hawaii have been added to the totals for the United States, the West, and the Pacific Division for the purpose of comparability.