EDUCATIONAL ATTAINMENT IN 30 SELECTED STANDARD METROPOLITAN STATISTICAL AREAS: 1969

Figure 1.-Years of School Completed by Persons 25 Years Old and Over, Living Inside and Outside the Central Cities of 30 Selected SMSA's: 1969

<table>
<thead>
<tr>
<th>Years of School Completed</th>
<th>In Central Cities</th>
<th>Outside Central Cities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than 4 years of high school</td>
<td>47.5%</td>
<td>34.1%</td>
</tr>
<tr>
<td>4 years of high school or more</td>
<td>65.9%</td>
<td>52.5%</td>
</tr>
<tr>
<td>1 year of college or more</td>
<td>21.3%</td>
<td>27.9%</td>
</tr>
<tr>
<td>4 years of college or more</td>
<td>11.0%</td>
<td>15.0%</td>
</tr>
</tbody>
</table>
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Educational Attainment in 30 Selected Standard Metropolitan Statistical Areas: 1969

The educational attainment of persons 25 years old and over living in 30 of the Nation’s large standard metropolitan statistical areas in 1969 differed by residence and race. Persons living outside the central cities had a higher level of educational attainment than did those living inside the central cities and whites were likely to have completed more years of school than persons of Negro and other races.  

The data in this report on the educational attainment of the population 25 years old and over in each of these SMSA’s are based on the annual average of the 1969 monthly statistics on years of school completed collected in the Current Population Survey conducted by the Bureau of the Census. The SMSA’s included in this report are:

Atlanta, Ga.  
Baltimore, Md.  
Boston, Mass.  
Buffalo, N.Y.  
Chicago, Ill.  
Cincinnati, Ohio-Ky.  
Cleveland, Ohio  
Columbus, Ohio  
Dallas, Tex.  
Denver, Colo.  
Detroit, Mich.  
Houston, Tex.  
Indianapolis, Ind.  
Kansas City, Mo.-Kans.  
Los Angeles-Long Beach, Calif.  
Memphis, Tenn.  
Milwaukee, Wis.  
Minneapolis-St. Paul, Minn.  
New Orleans, La.  
New York, N.Y.  
Norfolk, N.J.  
Philadelphia, Pa.-N.J.  
Phoenix, Ariz.  
Pittsburgh, Pa.  
St. Louis, Mo.-Ill.  
San Antonio, Tex.  
San Diego, Calif.  
San Francisco-Oakland, Calif.  
Seattle, Wash.  

RESIDENCE AND EDUCATIONAL ATTAINMENT

Persons living outside the central cities of these 30 SMSA’s had higher levels of educational attainment than did those living inside the central cities. About 66 percent of these metropolitan adults living outside the central cities had completed 4 years of high school or more as compared with 52 percent of those living inside central cities. Moreover, about 28 percent of those living outside central cities had completed 1 year of college or more as compared with 21 percent of those living in the central cities. Furthermore, about 15 percent of those living outside the central cities had completed 4 years of college or more as compared with 11 percent of those living inside central cities (table A).

RACE AND EDUCATIONAL ATTAINMENT

Persons of Negro and other races living in these 30 SMSA’s in 1969 were more likely to have a low level of educational attainment than were whites. Two out of every five persons of Negro and other races had completed 4 years of high school or more as compared with about three out of every five white persons. About 15 percent of persons of Negro and other races had completed some college and about 7 percent had completed 4 years of college or more as compared with 26 percent and 14 percent of whites, respectively.

RESIDENCE, RACE, AND EDUCATIONAL ATTAINMENT

Metropolitan adults of Negro and other races were more likely to live in the central cities than were whites. These central city residents of Negro and other races were also more likely to have a low level of educational attainment than were whites. About 81 percent of persons of Negro and other races in these 30 SMSA’s lived in the central cities in 1969 as compared with 42 percent of the whites. About 41 percent of the persons of Negro and other races living in the central cities had completed 4 years of high school or more as compared with 56 percent of white persons living in the central cities. Of these central city residents, 13 percent of persons of Negro and other races had completed some college as compared with 24 percent of whites. The percent of white persons living in the central cities who had completed 4 years of college or more was about twice the percent for persons of Negro and other races living in the central cities (12 percent and 6 percent, respectively).

1 As measured by the proportion who completed high school, some college, and 4 or more years of college.

This report was prepared by Charlotte D. Fitzgerald, Jerry T. Jennings, and Charles E. Johnson, Jr., Education and Social Stratification Branch, Population Division, Bureau of the Census.
Table A. YEARS OF SCHOOL COMPLETED BY PERSONS 25 YEARS OLD AND OVER LIVING INSIDE AND OUTSIDE THE CENTRAL CITIES OF 30 SELECTED STANDARD METROPOLITAN STATISTICAL AREAS, BY RACE: 1969
(Civilian noninstitutional population)

<table>
<thead>
<tr>
<th>Residence and race</th>
<th>Total</th>
<th>Less than 4 years of high school</th>
<th>4 years of high school or more</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Total</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>40.4</td>
<td>59.6</td>
</tr>
<tr>
<td>In central cities</td>
<td>100.0</td>
<td>47.5</td>
<td>52.5</td>
</tr>
<tr>
<td>Outside central cities</td>
<td>100.0</td>
<td>34.1</td>
<td>65.9</td>
</tr>
<tr>
<td>White</td>
<td></td>
<td>37.8</td>
<td>62.2</td>
</tr>
<tr>
<td>In central cities</td>
<td>100.0</td>
<td>44.2</td>
<td>55.8</td>
</tr>
<tr>
<td>Outside central cities</td>
<td>100.0</td>
<td>33.2</td>
<td>66.7</td>
</tr>
<tr>
<td>Negro and other races</td>
<td>100.0</td>
<td>57.8</td>
<td>42.1</td>
</tr>
<tr>
<td>In central cities</td>
<td>100.0</td>
<td>59.2</td>
<td>40.7</td>
</tr>
<tr>
<td>Outside central cities</td>
<td>100.0</td>
<td>52.1</td>
<td>48.0</td>
</tr>
</tbody>
</table>

Table B. YEARS OF SCHOOL COMPLETED BY PERSONS 25 YEARS OLD AND OVER LIVING IN THE WASHINGTON, D.C.-MD.-VA., SMSA AND IN THE BALTIMORE, MD., SMSA, BY RACE: 1969
(Civilian noninstitutional population)

<table>
<thead>
<tr>
<th>Area and race</th>
<th>Total</th>
<th>Less than 4 years of high school</th>
<th>4 years of high school or more</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Total</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>27.0</td>
<td>72.9</td>
</tr>
<tr>
<td>In central city</td>
<td>100.0</td>
<td>46.3</td>
<td>54.0</td>
</tr>
<tr>
<td>Outside central city</td>
<td>100.0</td>
<td>18.4</td>
<td>81.6</td>
</tr>
<tr>
<td>White</td>
<td></td>
<td>18.5</td>
<td>81.2</td>
</tr>
<tr>
<td>In central city</td>
<td>100.0</td>
<td>27.6</td>
<td>75.4</td>
</tr>
<tr>
<td>Outside central city</td>
<td>100.0</td>
<td>17.1</td>
<td>82.1</td>
</tr>
<tr>
<td>Negro and other races</td>
<td>100.0</td>
<td>53.8</td>
<td>46.2</td>
</tr>
<tr>
<td>In central city</td>
<td>100.0</td>
<td>55.6</td>
<td>43.2</td>
</tr>
</tbody>
</table>

WASHINGTON, D.C.-MD.-VA., SMSA

BALTIMORE, MD., SMSA
A comparison of two SMSA's with relatively high proportions of central city residents of Negro and other races (Baltimore, Md., and Washington, D.C.-Md.-Va.) shows differences in educational attainment levels by race (table B). About 44 percent of the residents in the Baltimore central city and 67 percent of the residents in the Washington, D.C. central city were of Negro and other races. Among persons of Negro and other races residing in the Baltimore central city, 26 percent had completed 4 years of high school or more, 7 percent had completed 1 year of college or more, and 4 percent had completed 4 years of college or more. However, among persons of Negro and other races living in the Washington, D.C. central city, 43 percent had completed 4 years of high school or more, 15 percent had completed 1 year of college or more, and 7 percent had completed 4 years of college or more. Among white persons in the Baltimore central city, 39 percent had completed 4 years of high school or more, 14 percent had completed 1 year of college or more, and 7 percent had completed 4 years of college or more. However, among white persons living in the Washington, D.C. central city, 75 percent had completed 4 years of high school or more, 52 percent had completed 1 year of college or more, and 36 percent had completed 4 years of college or more.

RELATED REPORTS


Apart from the different dates at which the statistics were collected, the education data from the Current Population Survey may differ from those from the census and from projections based on the census for the following reasons: (1) Members of the Armed Forces and inmates of institutions are excluded from the survey. All members of the Armed Forces in the United States and inmates of institutions are included in the census data. (2) Statistics from both the census and the CPS are subject to sampling and response errors. There are differences in coverage, enumeration techniques (self-enumeration versus direct enumeration), and the methods of allocating nonresponses.

The Content Evaluation Study of the 1960 census is a major source of information about the accuracy of census data on educational attainment. A comparison by detailed categories of years of school reported for each level suggests a net overreporting on years of school completed for about 6 percent of the population 25 years old and over. A comparison of CPS with census figures shows that the CPS figures include more persons with 12 years or more of school completed and fewer with less than 12 years. If the Content Evaluation Study is taken as a standard, the 1960 census figures on educational attainment show a slight upward bias. The CPS figures are still higher than the census figures and may, therefore, be more biased in the direction of high educational attainment.

Because of the differences mentioned above, care should be exercised in comparing the data for 1969 with those from the 1960 census.

DEFINITIONS AND EXPLANATIONS

Population coverage. The figures in this report for 1969 are sample survey data and relate to the civilian noninstitutional population.

Age. The age classification is based on the age of the person at his last birthday.

Race. The term "race" in this report refers to the division of population into three groups, white, Negro, and other races. The group designated as "other races" consists of Indians, Japanese, Chinese, and any other race except white and Negro.

Years of school completed. Data on years of school completed in this report were derived from the combination of answers to two questions: (a) "What is the highest grade of school he has ever attended?" and (b) "Did he finish this grade?"

The questions on educational attainment apply only to progress in "regular" schools. Such schools include graded public, private, and parochial elementary and high schools (both junior and senior high), colleges, universities, and professional schools, whether day schools or night schools. Thus, regular schooling is that which may advance a person toward an elementary school certificate or high school diploma, or a college, university, or professional school degree. Schooling in other than regular schools was counted only if the credits obtained were regarded as transferable to a school in the regular school system.

The median years of school completed is defined as the value which divides the population into two equal parts—one-half having completed more schooling and one-half having completed less schooling than the median. This median was computed after the statistics on years of school completed had been converted to a continuous series of numbers (e.g., completion of the first year of high school was treated as completion of the 9th year and the completion of the first year of college as completion of the 13th year). The persons completing a given school year were assumed to be distributed evenly within the interval from .0 to .9 of the year (for example, persons completing the 12th year were assumed to be distributed evenly between 12.0 and 12.9). Because of the inexact assumption as to the distribution within an interval, this median is more appropriately used for comparing groups and the same group at different dates than as an absolute measure of educational attainment.
Assignment of educational attainment for those not reporting. When information on either the highest grade attended or completion of the grade was not reported in the survey, entries for the items were assigned using an edit in the computer. The general procedure was to assign an entry for a person that was consistent with entries for other persons with similar characteristics. The specific technique used in the survey was as follows:

1. The computer stored reported data on highest grade attended by color and age, and on completion of the grade by age and highest grade attended, for persons 14 years old and over in the population.

2. Each stored value was retained in the computer only until a succeeding person having the same characteristics (e.g., same color and age, in the case of assignments for highest grade attended) and having the item reported, was processed through the computer. Then the reported data for the succeeding person were stored in place of the one previously stored.

3. When one or both of the education items for a person 14 years old and over was not reported, the entry assigned to this person was that stored for the last person who had the same characteristics.

Metropolitan-nonmetropolitan residence. The population residing in standard metropolitan statistical areas (SMSA’s) constitutes the metropolitan population. Except in New England, an SMSA is a county or group of contiguous counties which contains at least one city of 50,000 inhabitants or more, or "twin cities" with a combined population of at least 50,000. In addition to the county, or counties, containing such a city or cities, contiguous counties are included in an SMSA if, according to certain criteria, they are essentially metropolitan in character and are socially and economically integrated with the central city. In New England, SMSA’s consist of towns and cities, rather than counties. The metropolitan population in this report is based on SMSA’s as defined in the 1960 census and does not include any subsequent additions or changes.

The population inside SMSA’s is further classified as "in central cities" and "outside central cities." With a few exceptions, central cities are determined according to the following criteria:

1. The largest city in an SMSA is always a central city.

2. One or two additional cities may be secondary central cities on the basis and in the order of the following criteria:
   a. The additional city or cities have at least 250,000 inhabitants.
   b. The additional city or cities have a population of one-third or more of that of the largest city and a minimum population of 25,000.

SOURCE AND RELIABILITY OF THE ESTIMATES

Source of data. The estimated percentages shown in this report are based on an annual average of 1969 monthly data from a subset (i.e., 30 selected standard metropolitan statistical areas) of the Current Population Survey of the Bureau of the Census. The national sample is spread over 449 areas comprising 863 counties and independent cities with coverage in each of the 50 States and the District of Columbia. Approximately 50,000 occupied housing units are designated for interview each month. Of this number, 2,250 occupied units, on the average, are visited but interviews are not obtained because the occupants are not found at home after repeated calls, or are unavailable for some other reason. In addition to the 50,000 there are also about 8,500 sample units in an average month which are visited but are found to be vacant or otherwise not to be interviewed.

The estimating procedure used in this survey involved the inflation of the weighted sample results to independent estimates of the civilian noninstitutional population of the United States by age, race, and sex. These independent estimates were based on statistics from the 1960 Census of Population; statistics of births, deaths, immigration, and emigration; and statistics on the strength of the Armed Forces.

Reliability of the estimates. Since the estimates are based on a sample, they may differ somewhat from figures obtained if a complete census had been taken using the same schedules, instructions, and enumerators. As in any survey work, the results are subject to errors of response and of reporting as well as being subject to sampling variability.

The standard error is primarily a measure of sampling variability, that is, of the variations that occur by chance because a sample rather than the whole of the population is surveyed. As calculated for this report, the standard error also partially measures the effect of response and enumeration errors but does not measure any systematic biases in the data. The chances are about 68 out of 100 that an estimate from the sample would differ from a complete census figure by less than the
standard error. The chances are about 95 out of 100 that the difference would be less than twice the standard error.

The reliability of an estimated percentage, computed by using sample data for both numerator and denominator, depends upon both the size of the percentage and the size of the total upon which the percentage is based. Estimated percentages are relatively more reliable than the corresponding estimates of the numerators of the percentages, particularly if the percentages are 50 percent or more. Table C contains the standard errors of estimated percentages. The detailed table contains the base numbers of the percentages to be used in conjunction with table C.

Illustration of use of table of standard errors. The detailed table of this report shows that in 1969, 28.9 percent of total persons 25 years old and over in the Minneapolis-St. Paul SMSA finished 1 year of college or more. The detailed table shows that in the Minneapolis-St. Paul SMSA there were approximately 800,000 persons 25 years old and over in 1969. Table C shows the standard error of 28.9 percent on a base of 800,000 to be approximately 0.7 percent. Consequently, chances are 68 out of 100 that the estimated 28.9 percent would be within 0.7 percentage points of a complete census figure, and chances are 95 out of 100 that the estimate would be within 1.4 percentage points of a census figure, i.e., this 95 percent confidence interval would be from 27.5 to 30.3.

Table C. STANDARD ERRORS FOR ESTIMATED PERCENTAGES IN 30 SELECTED STANDARD METROPOLITAN STATISTICAL AREAS

(68 chances out of 100)

<table>
<thead>
<tr>
<th>Estimated percentage of persons</th>
<th>Base of percentage (thousands)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>50</td>
</tr>
<tr>
<td>2 or 98.......................</td>
<td>0.41</td>
</tr>
<tr>
<td>5 or 95.......................</td>
<td>0.93</td>
</tr>
<tr>
<td>10 or 90.....................</td>
<td>1.7</td>
</tr>
<tr>
<td>25 or 75.....................</td>
<td>2.8</td>
</tr>
<tr>
<td>50............................</td>
<td>3.7</td>
</tr>
</tbody>
</table>