Small Area
Income and Poverty
Estimates (SAIPE):
2011 Highlights
Issued December 2012

U.S. Census Bureau
Social, Economic, and Housing Statistics Division
Small Area Estimates Branch
CONTENTS

TEXT

Introduction ............................................................................................................................................. 4
Highlights.................................................................................................................................................. 4
Small Area Income and Poverty Estimates (SAIPE). ............................................................................. 4

County-Level Median Household Income ............................................................................................... 5
Metropolitan and Micropolitan Statistical Areas................................................................................. 6
National Top Quartile ............................................................................................................................ 7
Change in Median Household Income .................................................................................................. 8

County-Level Poverty ............................................................................................................................. 9
How Poverty Is Measured ....................................................................................................................... 10
Concentration of Poverty ....................................................................................................................... 12
Share of People in Poverty ..................................................................................................................... 12
Change in Poverty Rates ....................................................................................................................... 14

County-Level Poverty for School-Age Children ................................................................................... 14
Poverty Comparisons by School-Age Population .................................................................................. 16

School District Poverty .......................................................................................................................... 19
Variation in School District Poverty ....................................................................................................... 21
Distribution of School District Poverty .................................................................................................. 24
Census Bureau Income and Poverty Data Sources ................................................................................ 24

TEXT TABLES

1. County Summary by Region and Place of Residence: 2011 ............................................................. 13

FIGURES

1. Median Household Income, 2011 ....................................................................................................... 5
2. Range and Middle Value of County-Level Median Household Income
   By Region: 2011 ................................................................................................................................. 6
3. Range and Middle Value of County-Level Median Household Income
   By Place of Residence: 2011 .............................................................................................................. 7
4. Counties in the National Top Quartile Based on Median Household Income: 2011 ..................... 8
5. County Changes in Median Household Income: 2007 to 2011 ...................................................... 9
6. County Poverty Rates, 2011 ............................................................................................................. 10
7. Range and Middle Value of County-Level Poverty Rates for All Ages
   By Region: 2011 ................................................................................................................................. 11
8. Range and Middle Value of County-Level Poverty Rates for All Ages
   By Place of Residence: 2011 .............................................................................................................. 11
9. Counties with Poverty Rates 20 Percent or Above by Region: 2011 ................................................ 12
11. County Changes in Poverty Rates: 2007 to 2011 ........................................................................... 14
12. Range of School-Age County-Level Poverty Rates by Region: 2011 .......................................... 15
13. Range of School-Age County-Level Poverty Rates by Place of Residence: 2011 ..................... 15
14. County Poverty Rates Above and Below the U.S. Poverty Rate: 2011 ........................................ 16
15. County Changes in Poverty Rates for the School-Age Population: 2007 to 2011 ................................................................. 17
16. Counties Above and Below the School-Age Aggregate Poverty Rate for the 25 Largest Counties by Population: 2011 .................. 18
17. Counties Above and Below the School-Age Aggregate Poverty Rate for the 25 Smallest Counties by Population: 2011 ............... 19
18. Distribution of Numbers of School Districts, Number of School-Age Children and Number of School-Age Children in Families in Poverty by School District Population Size: 2011 ................................................................. 20
19. School Age Children in Poverty by School District - SAIPE 2011 ................................................................. 20
20. Range of School-Age School District-Level Poverty Rates by Region: 2011 ................................................................. 21
21. Range of School-Age School District Poverty Rates by Region and Geographical Type: 2011 ................................................................. 22

APPENDIX

1. Census Regions and Divisions in the United States ................................................................. 26
2. Counties by Metro/Micro Area Status .................................................................................. 27
3. Supplemental Information for School Districts .................................................................... 27
4. Counties Published in the 2011 ACS 1-Year Estimates ........................................................ 28
Small Area Income and Poverty Estimates (SAIPE): 2011 Highlights

Introduction

This document presents 2011 data from the Small Area Income and Poverty Estimates (SAIPE) program of the U.S. Census Bureau. The SAIPE program produces poverty estimates for the total population and median household income estimates annually for all counties and states. SAIPE data also produces single-year poverty estimates for the school-age population (age 5-17) for all school districts in the U.S.

The main objective of the SAIPE program is to provide timely, reliable estimates of income and poverty statistics for the administration of federal programs and the allocation of federal funds to local jurisdictions. Some state and local programs also use SAIPE income and poverty estimates to distribute funds and manage programs.

Due to the comprehensive geographic coverage and one-year focus, SAIPE data can be used to analyze geographic variation in poverty and income, as well as changes over time. The purpose of this document is to highlight several key aspects of such analysis.

Highlights

- County-level median household income ranged from $20,990 to $119,525 with a middle value of $41,974.1,2
- The 2011 data showed that 923 counties had a school-age poverty rate significantly above and 909 significantly below the national poverty rate of 20.8 percent.
- Based on poverty rate estimates for all ages, 950 counties, or 30.2 percent of all counties, had a statistically significant increase in poverty between 2007 and 2011.3 Less than one percent of counties had a decrease in poverty between the four years.
- In 2011, there were 53.8 million school-age children in 13,529 school districts. Of these, 49.2 percent of all school-age children resided in districts with School District poverty rates greater than 20 percent.

Small Area Income and Poverty Estimates (SAIPE) Program

The SAIPE estimates improve upon survey estimates by borrowing strength from administrative records, postcensal population estimates, and decennial census data. Modeling techniques allow SAIPE to annually publish single-year estimates for all school districts and counties. The SAIPE estimates are broadly consistent with the direct survey estimates, but with help of other timely information, the SAIPE estimates are more precise than the one-year survey estimates for most counties and school districts. One-year American Community Survey (ACS) estimates are not available for most of these areas. Nonetheless, SAIPE estimates are subject to several types of uncertainty. Further information on SAIPE methodology is available at:


A related program to SAIPE is the Small Area Health Insurance Estimates (SAHIE) program, which produces estimates of health insurance coverage for all counties and states. Information about the SAHIE program is available at:

http://www.census.gov/did/www/sahie/index.html

1 All data shown are estimates containing uncertainty. Apparent differences among the estimates may not be statistically significant, unless specifically noted. All direct comparisons cited in the text have been statistically tested at the 90% significance level.
2 $41,974 is the middle value among the distribution of counties, not the U.S. median. The legend in Figure 1 shows the U.S. median ($50,502) which is the median household income for the nation.
3 2007 was chosen in this time series because it was the year before the most recent recession. The National Bureau of Economic Research (NBER) is the official source for recession timing with the most recent recession beginning in December 2007 and ending in June 2009.
County-Level Median Household Income

The 2011 SAIPE data provide estimates for nearly all counties in the U.S (3,142 counties). According to the data, the median household income estimates ranged from $20,990 to $119,525 with a middle value of $41,974.

Figure 1 is a county-level map highlighting the range of median household income throughout the U.S. Counties with estimates within the highest range marked on the map ($73,206 to $119,525) were mostly located in the Northeast, as well as in Wyoming, Colorado, and the California coastline. Counties with estimates within the lowest range marked on the map ($20,990 to $34,457) were mostly located in the South as well as parts of Arizona, Idaho, Montana and New Mexico.

Figure 1. Median Household Income: 2011

---

4 Kalawao County, Hawaii was omitted from the estimates due to a lack of children ages 5 to 17.
5 Geographic distribution of economic concepts, like income and poverty, were limited by the geographic unit of analysis. All maps and distributional charts in this document use legal entities, such as counties and school districts, which display a wide range of total population, population density, and other demographic characteristics. Thus, caution is advised when interpreting the results.
Highlighting the range of income throughout the U.S., Figure 2 displays some of the highest and lowest county estimates by region. The box and whisker graph shows the range with the box representing the 25th quartile, the 50th quartile (middle or median value), and the 75th quartile. The lines extending from the box represent the minimum and maximum values. Looking at the range of median household income throughout the regions, ordered alphabetically, the Midwest had a middle estimate of $44,705, the Northeast a middle value of $49,033, the South a middle value of $38,138, and the West a middle estimate of $44,183.

Figure 2. Range and Middle Value of County-Level Median Household Income by Region: 2011

Appendix 2 is a map depicting metropolitan and micropolitan area status by county. Information about metropolitan and micropolitan areas, which are also known as “Core Based Statistical Areas”, is available at: http://www.census.gov/population/www/metroareas/metroarea.html.

---

6 Census regions are defined as Midwest, Northeast, South, and West. For a map of the regions, see Appendix 1.
It is also possible to view median household income by place of residence, as shown in Figure 3. The estimates for median household incomes in metropolitan area counties ranged from $24,738 to $119,525, with a midpoint of $48,180. The estimates for median household incomes in micropolitan area counties ranged from $23,240 to $110,204, with a midpoint of $40,782. The median household incomes in the non-metropolitan areas ranged from $20,990 to $75,935 with a midpoint of $38,865.

**National Top Quartile**

Figure 4 presents the counties above the 75th percentile (top quartile) by county median household income. The top quartile had median household income of more than $48,954. Sixty-seven percent of the counties (526 counties) in the national top quartile were located in metropolitan areas. This was also where the population was most concentrated: 161,305,384 of the 168,894,996 people (95.5%) living in counties in the top national quartile lived in metropolitan areas.

Median household incomes in 177 of the 227 counties (78.0 percent) in the country’s 25 largest metropolitan areas were above the national 75th percentile. In 8 of the 25 largest Metropolitan areas (Phoenix, Arizona; Los Angeles, California; Riverside-San Bernardino, California; Sacramento, California; San Francisco, California; Minneapolis-St. Paul, Minnesota; Portland-Vancouver, Oregon; Seattle, Washington), all counties that comprised the metropolitan areas were in the national top quartile.

---

7 For place of residence, we use metropolitan and micropolitan statistical areas for county-level data. Metropolitan and micropolitan area status is described in the text box on page 6 and is shown by map in Appendix 2.

8 Many of the other counties in the top quartile were located around smaller metropolitan and micropolitan areas.
Change in Median Household Income

Recently developed methodology has allowed the analysis and statistical testing of SAIPE county trends at the 90 percent significance level. Figure 5 shows the statistically significant county-level change in median household income rates for the total population for the period between 2007, the year before the most recent recession, and 2011, the second year after the recession ended. The changes were adjusted for inflation using the national Consumer Price Index before testing. Of the 3,142 counties in the U.S., 1079 counties, or 34.3 percent, had a statistically significant change over the four-year period. Of the counties with statistically significant changes, 985 counties had decreases in median household income. Areas with clusters of significant decreases in median household income include the Southwest and Northwest, parts of the

---

Northeast, Georgia, Florida, and many of the states surrounding the Great Lakes. In contrast, only 94 or 8.7 percent of the counties with significant change had an increase in median household income between 2007 and 2011.

Figure 5. **County Changes in Median Household Income: 2007 to 2011**

---

**County-Level Poverty**

The 2011 SAIPE provides poverty estimates for all counties. According to these estimates, county poverty rates for all ages ranged from 2.9 percent to 49.9 percent. Figure 6 indicates how poverty rates varied among counties throughout the U.S. Counties with higher poverty estimates were concentrated mostly in the South, predominately in Louisiana, Mississippi, Arkansas, Kentucky, and South Texas; and Eastern Arizona and New Mexico in the West. Conversely, counties with lower poverty rates were mostly located in the Northeast, Midwest, and portions of the West.

---

10 Information on poverty, including how it is defined is located in the text box on page 10. Further information on poverty is available at: [http://www.census.gov/hhes/www/poverty/poverty.html](http://www.census.gov/hhes/www/poverty/poverty.html).
How Poverty is Measured

Poverty status is determined by comparing total annual income to a set of dollar values called thresholds that vary by family size, number of related children, and age of householder. If a family’s before tax money income is less than the dollar value of their thresholds, then that family and every individual in it are considered to be in poverty. For people not living in families, poverty status is determined by comparing the individual’s total income to his or her threshold.

The poverty thresholds are updated annually to allow for changes in the cost of living using the Consumer Price Index (CPI-U). They do not vary geographically.

SAIPE’s dependent variable is the estimates of poverty from the American Community Survey (ACS), a continuous survey with people responding throughout the year. Since income is reported for the previous 12 months, the appropriate poverty threshold for each family is determined by multiplying the base-year poverty threshold (1982) by the average of monthly CPI values for the 12 months preceding the survey.

For more information, see “How Poverty is Calculated in the American Community Survey” at:
Figures 7 and 8 show the distribution of county poverty rates by region and place of residence. According to Figure 7, the median estimates for county-level poverty rates in the four regions were 13.5 percent (Midwest), 13.1 percent (Northeast), 19.7 percent (South), and 15.9 percent (West). Among place of residence, counties in metropolitan areas had a median estimated poverty rate of 14.8 percent, 17.5 percent in micropolitan areas, and 17.3 percent in counties that were neither metropolitan nor micropolitan areas (Figure 8).

Figure 7. Range and Median Value of County-Level Poverty Rates for All Ages by Region: 2011

Figure 8. Range and Median Value of County-Level Poverty Rates for All Ages by Place of Residence: 2011
Concentration of Poverty

In addition to the percent of people in poverty, it is possible to analyze the concentration of poverty at the county-level. Figure 9 depicts county poverty data for all ages by region and the largest 25 metropolitan areas. According to this figure, counties with a poverty rate more than 20 percent were concentrated in the South. The Northeast and Midwest regions had fewer counties with poverty rates 20 percent or higher. This map also shows few counties in the largest 25 metropolitan area had poverty rates for 20 percent or higher.

Figure 9. Counties with Poverty Rates 20 Percent or Above by Region: 2011

Share of People in Poverty

Table 1 shows the numbers and percentages of counties, total population, and people in poverty by region and place of residence. Among the regions, 33.6 percent of all counties were located in the Midwest, 6.9 percent in the Northeast, 45.3 percent in the South, and 14.2 percent in the West. By place of residence, 35.0 percent of all counties were located in metropolitan areas, 21.9 percent in micropolitan areas, and 43.1 percent of the counties were in neither metropolitan nor micropolitan.

Of the 311.6 million people, approximately 21.5 percent reside in the Midwest, while 17.8 percent reside in the Northeast, 37.2 percent reside in the South, and 23.4 percent reside in the West region. Among place of residence, 83.8 percent of the population lived in metropolitan areas, 10.0 percent in micropolitan areas, and 6.2 percent in counties that were neither in metropolitan nor micropolitan areas.
Table 1. **County Summary, by Region and Place of Residence: 2011**

<table>
<thead>
<tr>
<th>Category</th>
<th>Counties</th>
<th>Total Population</th>
<th>Persons in Poverty</th>
<th>Counties</th>
<th>Total Population</th>
<th>Persons in Poverty</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number</td>
<td></td>
<td>Percent of Total</td>
<td>Number</td>
<td></td>
<td>Percent of Total</td>
</tr>
<tr>
<td>Total Counties</td>
<td>3,142</td>
<td>311,591,917</td>
<td>100.0</td>
<td>3,142</td>
<td>48,452,035</td>
<td>100.0</td>
</tr>
<tr>
<td>Midwest</td>
<td>1,055</td>
<td>67,158,835</td>
<td>33.6</td>
<td>1,055</td>
<td>9,845,187</td>
<td>21.6</td>
</tr>
<tr>
<td>Northeast</td>
<td>217</td>
<td>55,521,598</td>
<td>6.9</td>
<td>217</td>
<td>7,263,255</td>
<td>17.8</td>
</tr>
<tr>
<td>South</td>
<td>1,423</td>
<td>116,046,736</td>
<td>45.3</td>
<td>1,423</td>
<td>19,831,563</td>
<td>37.2</td>
</tr>
<tr>
<td>West</td>
<td>447</td>
<td>72,864,658</td>
<td>14.2</td>
<td>447</td>
<td>11,512,016</td>
<td>23.4</td>
</tr>
<tr>
<td>Metropolitan Areas</td>
<td>1,100</td>
<td>261,103,595</td>
<td>35.0</td>
<td>1,100</td>
<td>39,558,676</td>
<td>83.8</td>
</tr>
<tr>
<td>Micropolitan Areas</td>
<td>688</td>
<td>31,035,144</td>
<td>21.9</td>
<td>688</td>
<td>5,363,888</td>
<td>10.0</td>
</tr>
<tr>
<td>Not in Metro or Micro Areas</td>
<td>1,354</td>
<td>19,453,088</td>
<td>43.1</td>
<td>1,354</td>
<td>3,529,457</td>
<td>6.2</td>
</tr>
</tbody>
</table>

Notes: The data shown are estimates containing uncertainty. Apparent differences among the estimates may not be statistically significant. The poverty universe is a subset of the total population. Specifically, poverty status excludes children younger than 15 who are not related to the householder, people living in institutional group homes, and those living in college dormitories or military barracks. Estimates are rounded and do not add to 100 percent.

Source: U.S. Census Bureau, 2011 Small Area Income and Poverty Estimates

Figure 10 shows a comparative picture of the share of the total population with the proportion of people in poverty by region and place of residence. According to this figure, the South and West regions were the two regions with higher proportion of people in poverty (40.9 percent and 23.8 percent respectively) as compared with its share of total population (37.3 percent and 23.4 percent respectively). Among place of residence, micropolitan areas and areas in neither metropolitan nor micropolitan had higher share of people in poverty compared with their respective share of the total population. The distribution of people in poverty were 20.3 percent in the Midwest, 15.0 percent in the Northeast, 40.9 percent in the South, and 23.8 percent in the West. Approximately, 81.6 percent of those in poverty lived in metropolitan areas, while 11.1 percent in micropolitan areas, and 7.3 percent in neither metropolitan nor micropolitan areas.

Figure 10. **Percentage of Total Population and People in Poverty by Region and Place of Residence: 2011**

Notes: The data shown are estimates containing uncertainty. Apparent differences among the estimates may not be statistically significant. The 'total population' in this figure refers those people in the poverty universe. The poverty universe excludes children younger than 15 who are not related to the householder, people living in institutional group quarters, and those living in college dormitories or military barracks.

Source: U.S. Census Bureau, 2011 Small Area Income and Poverty Estimates
Change in Poverty Rates
Figure 11 shows the county-level change in poverty rates for the total population for the period between 2007 and 2011. Of the 3,142 counties in the U.S., 964 counties, or 30.7 percent, had a statistically significant difference between the 4 years. Of the counties with statistically significant changes, 950 counties had an increase in poverty rate. While, only 14 of the counties with significant change, or less than one percent, had a decrease in poverty rate between 2007 and 2011. Areas with significant increases in poverty include Florida, Georgia, South Carolina, Delaware, Connecticut, Maryland, California, Hawaii, Arizona and many of the Great Lakes states.

Country-Level Poverty of School-Age Children
SAIPE publishes annual poverty estimates for school-age children in families for all counties. ‘School-age children’ refers to the population of children ages 5 to 17. By region (Figure 12), the school-age median poverty rate was 17.5 percent in the Midwest, 17.0 percent in the Northeast, 26.7 percent in the South, and
20.3 percent in the West. Among place of residence (Figure 13), the median poverty rate in metropolitan areas was 19.1 percent, 23.2 percent in micropolitan areas, and 23.8 percent in areas that are neither metropolitan nor micropolitan.

Figure 12. Range and Median Value of School-Age County Level Poverty Rates by Region: 2011

Figure 13. Range and Median Value of School-Age County Level Poverty Rates by Place of Residence: 2011

Notes: The data shown are estimates containing uncertainty. Apparent differences among the estimates may not be statistically significant. In particular, counties identified as minimum and maximum may have several other counties that are statistically indistinguishable. The box and whisker plot shows the distribution of poverty by county. The whiskers indicate the minimum and maximum values, while the lower and upper borders of the box represent the interquartile range (25th and 75th percentile). The line inside the box indicates the location of the 50th percentile (median value).

Source: U.S. Census Bureau, 2011 Small Area Income and Poverty Estimates
Poverty Comparisons by School-Age Population

Figure 14 shows each county’s poverty rate for the school-age population with respect to the national average rate. In this map, the blue shade identifies counties with poverty rates for school-age children higher than the national average (20.8 percent), while the orange shaded area identifies those counties with school-age child poverty rates below the national average. Overall, there were 1,832 counties with rates that were significantly different from the national average with 923 counties above and 909 counties below the national poverty rate.

Large concentration of counties with poverty rates significantly above the national average for school-age children were observed in the South including Louisiana, Alabama, Mississippi, Arkansas, West Virginia, Kentucky, Georgia, South Carolina, Florida, and Texas. In the West region, Arizona, New Mexico, and Oregon had poverty rates higher than the national average. Large numbers of counties in the Northeast and Midwest regions, as well as counties in Nevada, Utah, Colorado and Wyoming in the West had poverty rates for school-age children lower than the national average.

Figure 14. County Poverty Rates Above and Below the U.S. Poverty Rate: 2011
Figure 15 shows the change in county poverty rates for school-age population, between 2007 and 2011 highlighting the areas where poverty increased or decreased during the three year period. According to the figure, most of the counties in the U.S. did not experience significant change in the poverty rate for school-age children during the same time period. Counties with an increase in poverty were clustered around Southern California, Southern Nevada, Minnesota, Wisconsin, Iowa, Ohio, Michigan, Florida and parts of Arizona and Illinois.
Figure 16 and 17 show school-age children in poverty rates for the 25 largest and the 25 smallest counties in the nation and compare them with the national average and the aggregate average. Figure 16 shows school-age poverty rates for the largest 25 counties. The aggregate average for these counties was 23.5 percent (+/- 0.4) with a national average of 20.8 percent (+/-0.4). Among the 25 largest counties, school-age poverty rate ranged from 8.3 percent in Suffolk County, New York to 38.6 percent in Philadelphia County, Pennsylvania. Seventeen of the 25 counties had a statistically significant difference from the aggregate average, with eight counties below and nine counties above both rates.

Conversely, among the smallest counties, Figure 17 displays poverty rates for those counties that had a statistically significant difference from the aggregate of the 25 smallest counties (19.4 percent, +/- 1.0) and the national average. Poverty rates for these counties ranged from 8.8 percent in King, Texas to 32.6 percent for Keya Paha, Nebraska. Nine counties had poverty rates that were significantly different from the aggregate poverty rate of the 25 smallest counties. Of these counties, 7 counties, Billings, Montana, Borden, Texas, Hooker, Nebraska, King, Texas, McMullen, Texas, Roberts, Texas, and Slope, North Dakota had a poverty rate below both the aggregate average and the national average.

Figure 16. Counties Above and Below the School-Age National and Aggregate Poverty Rate for the 25 Largest Counties by Population: 2011

---

11 The aggregate poverty rate is based on the aggregate average of the 25 largest or smallest counties weighted proportionately to their school-age population. Each of the individual counties has been tested against the aggregate for statistical significance at the 90 percent confidence level. The school-age aggregate poverty rate for the largest counties is statistically different than the national poverty rate.

12 For the smaller counties, fewer counties are different from the aggregate average due to higher uncertainty in their estimated poverty rates.

13 There is no statistical difference between the school-age aggregate poverty rate for the smallest 25 counties and the national poverty rate (19.8 percent).
School District Poverty

The 2011 SAIPE data contain estimates for all school districts in the Title I universe (13,544 school districts).\textsuperscript{15} \textsuperscript{16} Figure 18 shows the number of school districts by population size (with school district populations less than 20,000 and populations with 20,000 or more). According to this figure, school-age children, as well as school-age children in families in poverty, tend to be concentrated in school districts with a population of 20,000 or more.\textsuperscript{17} \textsuperscript{18} In 2011, an estimated 24.9 percent of school districts have a total population size of 20,000 or more. These school districts contain an estimated 80.8 percent of all school-age children in the nation and an estimated 82.1 percent of school-age children in poverty.

\textsuperscript{15} When interpreting the maps and other compilations of school district SAIPE estimates, additional sources of uncertainty exist, as compared to county-level estimates. For further information see http://www.census.gov/did/www/saipe/methods/schooldistrictuncertainty.html.

\textsuperscript{16} The Title I universe is the set of U.S. school districts for which Title I of the No Child Left Behind Act of 2001 pertains. There are 13,544 such school districts as of January 1, 2012.

\textsuperscript{17} Supplemental information for school district administrators is available in Appendix 3.

\textsuperscript{18} The term ‘children in families’ denotes children who are related to the household by birth, marriage or adoption. Foster children are not included in families.
Figure 18. **Distribution of Numbers of School Districts, Number of School-Age Children and Number of School-Age Children in Families in Poverty by School District Population**

![Bar chart showing distribution of school districts by population and poverty status.]

**Notes:** There are 13,528 Title 1 eligible school districts used in this graph. Fifteen school districts were removed for having zero population. The terms 'in families' or 'related' refer to individuals age 6-17 related by birth, marriage, or adoption to the householder of the housing unit in which they reside; foster children; other unrelated individuals, and members of group quarters are not related children.


Figure 19. **Percentage of School-Age Children in Families in Poverty by School District: 2011**

![Map showing percentage of school-age children in poverty by school district.]

[Map legend and data scale provided for interpretation.]
Variation in School District Poverty

Figure 19 shows the distribution of school-age 5 to 17 children in poverty by school district. This map provides an overview of the variation in poverty throughout the school districts in the U.S. The white area shows the school districts with the lowest poverty (0.0 to 10.2 percent) and the dark blue highlights the areas with the highest poverty (43.1 to 100.0 percent). Both high and low poverty school districts are scattered throughout the nation, with some areas of concentration. Higher poverty rates noted on the map include school districts in Arizona, South Dakota, and Montana in the West region; and in the South, in South Texas, Alabama, Louisiana, and Mississippi. Many of the states in the Northeast and Mid-Atlantic regions, as well as Wyoming in the West, were observed in the lowest range of poverty.

Figure 20. Range and Median Value of School-Age School District Level Poverty Rates by Region: 2011

![Chart showing the range and median value of school-age school district level poverty rates by region.]

Notes: The data shown are estimates containing uncertainty. Apparent differences among the estimates may not be statistically significant. In particular, school districts identified as minimum and maximum may have several other school districts that are statistically indistinguishable. The box and whisker plot shows the distribution of poverty by school district. The whiskers indicate the minimum and maximum values, while the lower and upper borders of the box represent the interquartile range (25th and 75th percentiles). The line inside the box indicates the location of the 50th percentile (median value).


Figure 20 displays the median and the highest and lowest poverty rate estimates for the school-aged population at the school district level by region. The median poverty rate ranges for 11.5 percent in the Northeast to 24.8 percent in the South. The median poverty rates for the Midwest and the West were 15.6 percent and 20.1 percent, respectively.

School districts are often smaller entities than counties and can be within a metropolitan area, but still composed of entirely rural blocks. For this reason, it is more useful to analyze place of residence as a geographical type (urban, rural, or mixed urban and rural), rather than metropolitan or micropolitan. Figure 21 presents school-age poverty rates at the school district level by geographical type and region. Among the geographical types, the Midwest region has similar median poverty rates – urban (16.1 percent), rural (15.6 percent) and mixed urban and rural (15.1 percent). The Northeast region shows more diversity among the

---

19 The term ‘children ages 5 to 17’ refers to an estimate of the number of children who live within the geographic boundaries of the school district and who are in the appropriate grade range. It is not a measure of school district enrollment.


21 The rural percentage of any geographic area is calculated as the percentage of Census 2010 total population within blocks designated as rural by their Census 2010 population density. The categories used in this report are: ‘Urban’ – a school district with less than 34 percent of the population in rural blocks; ‘Mixed Urban and Rural’ – a school district with 34 to 66 percent of the population in rural blocks; and ‘Rural’ – a school district with 67 percent of more of the population in rural blocks.
geographical types with a large variation in the range of school district poverty in rural areas. Similar to the Midwest region, the South region has similar median poverty rates for urban (25.5 percent), rural (24.6 percent) and mixed urban and rural (25.0 percent). The South region also has similar variation in range for each of the three geographical types. The West region has large variation in the range of poverty for rural areas and smaller variation in the range for both urban and mixed urban and rural.

Figure 21. Range and Median Value of School-Age School District –Level Poverty Rates by Region and Geographic Type: 2011

Notes: The data shown are estimates containing uncertainty. Apparent differences among the estimates may not be statistically significant. In particular, school districts identified as extension and maximum may have several other school districts that are statistically indistinguishable. The school-age poverty rate refers to children ages 5 to 17 in families. The rural percentage of the geographic area is calculated as the percentage of Census 2010 total population within blocks designated as rural by their Census 2010 population density. The categories used in this report are “urban” – a school district with less than 25 percent of the population in rural blocks, “rural” – a school district with 25 to 69 percent of the population in rural blocks, and “mixed” – a district with 70 percent or more of the population in rural blocks. The boxes and whisker plots show the distribution of poverty by school district. The whiskers indicate the minimum and maximum values, while the lower and upper bounds of the box represent the interquartile range (25th and 75th percentiles). The line inside the box indicates the location of the 50th percentile (median value).

Source: U.S. Census Bureau, 2011 Small Area Income and Poverty Estimates
## Table 2. Percent of School-Age Population by School District Poverty Rate by State: 2011

<table>
<thead>
<tr>
<th>Name</th>
<th>Number of Districts</th>
<th>School-Age Population</th>
<th>Less than or equal to 10 percent poverty rate</th>
<th>10 percent to 20 percent poverty rate</th>
<th>More than 20 percent poverty rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>13,529</td>
<td>53,769,910</td>
<td>18.3</td>
<td>32.5</td>
<td>49.2</td>
</tr>
<tr>
<td>Alabama</td>
<td>134</td>
<td>623,238</td>
<td>3.0</td>
<td>25.9</td>
<td>71.2</td>
</tr>
<tr>
<td>Alaska</td>
<td>53</td>
<td>133,898</td>
<td>8.8</td>
<td>81.2</td>
<td>10.0</td>
</tr>
<tr>
<td>Arizona</td>
<td>215</td>
<td>1,172,814</td>
<td>3.5</td>
<td>36.3</td>
<td>60.2</td>
</tr>
<tr>
<td>Arkansas</td>
<td>239</td>
<td>514,129</td>
<td>0.0</td>
<td>28.8</td>
<td>71.2</td>
</tr>
<tr>
<td>California</td>
<td>961</td>
<td>6,733,028</td>
<td>14.1</td>
<td>32.2</td>
<td>53.7</td>
</tr>
<tr>
<td>Colorado</td>
<td>176</td>
<td>887,934</td>
<td>25.2</td>
<td>44.3</td>
<td>30.4</td>
</tr>
<tr>
<td>Connecticut</td>
<td>165</td>
<td>606,218</td>
<td>53.8</td>
<td>23.8</td>
<td>22.4</td>
</tr>
<tr>
<td>Delaware</td>
<td>16</td>
<td>148,939</td>
<td>0.0</td>
<td>0.0</td>
<td>100.0</td>
</tr>
<tr>
<td>District of Columbia</td>
<td>1</td>
<td>69,171</td>
<td>0.0</td>
<td>0.0</td>
<td>100.0</td>
</tr>
<tr>
<td>Florida</td>
<td>67</td>
<td>2,919,589</td>
<td>0.0</td>
<td>23.2</td>
<td>76.8</td>
</tr>
<tr>
<td>Georgia</td>
<td>183</td>
<td>1,806,407</td>
<td>5.3</td>
<td>36.9</td>
<td>57.8</td>
</tr>
<tr>
<td>Hawaii</td>
<td>1</td>
<td>216,099</td>
<td>0.0</td>
<td>100.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Idaho</td>
<td>115</td>
<td>308,780</td>
<td>0.0</td>
<td>62.8</td>
<td>37.2</td>
</tr>
<tr>
<td>Illinois</td>
<td>865</td>
<td>2,269,889</td>
<td>25.2</td>
<td>31.1</td>
<td>43.7</td>
</tr>
<tr>
<td>Indiana</td>
<td>291</td>
<td>1,167,726</td>
<td>15.2</td>
<td>40.9</td>
<td>43.9</td>
</tr>
<tr>
<td>Iowa</td>
<td>351</td>
<td>525,017</td>
<td>27.6</td>
<td>46.2</td>
<td>26.3</td>
</tr>
<tr>
<td>Kansas</td>
<td>286</td>
<td>520,267</td>
<td>34.5</td>
<td>34.7</td>
<td>30.7</td>
</tr>
<tr>
<td>Kentucky</td>
<td>176</td>
<td>739,791</td>
<td>2.4</td>
<td>26.0</td>
<td>71.6</td>
</tr>
<tr>
<td>Louisiana</td>
<td>69</td>
<td>801,413</td>
<td>0.0</td>
<td>19.9</td>
<td>80.1</td>
</tr>
<tr>
<td>Maine</td>
<td>236</td>
<td>201,526</td>
<td>22.1</td>
<td>49.2</td>
<td>28.8</td>
</tr>
<tr>
<td>Maryland</td>
<td>24</td>
<td>980,462</td>
<td>44.8</td>
<td>41.7</td>
<td>13.5</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>301</td>
<td>1,039,364</td>
<td>48.6</td>
<td>26.6</td>
<td>24.8</td>
</tr>
<tr>
<td>Michigan</td>
<td>551</td>
<td>1,711,423</td>
<td>19.2</td>
<td>38.8</td>
<td>43.7</td>
</tr>
<tr>
<td>Minnesota</td>
<td>337</td>
<td>925,264</td>
<td>40.5</td>
<td>42.7</td>
<td>16.7</td>
</tr>
<tr>
<td>Mississippi</td>
<td>149</td>
<td>540,989</td>
<td>0.0</td>
<td>19.0</td>
<td>81.0</td>
</tr>
<tr>
<td>Missouri</td>
<td>520</td>
<td>1,027,828</td>
<td>21.8</td>
<td>33.1</td>
<td>45.1</td>
</tr>
<tr>
<td>Montana</td>
<td>417</td>
<td>160,586</td>
<td>6.6</td>
<td>56.5</td>
<td>36.9</td>
</tr>
<tr>
<td>Nebraska</td>
<td>250</td>
<td>328,593</td>
<td>24.0</td>
<td>51.1</td>
<td>24.9</td>
</tr>
<tr>
<td>Nevada</td>
<td>17</td>
<td>477,335</td>
<td>0.0</td>
<td>24.8</td>
<td>75.2</td>
</tr>
<tr>
<td>New Hampshire</td>
<td>176</td>
<td>212,334</td>
<td>53.3</td>
<td>42.3</td>
<td>4.4</td>
</tr>
<tr>
<td>New Jersey</td>
<td>561</td>
<td>1,506,921</td>
<td>58.1</td>
<td>18.5</td>
<td>23.4</td>
</tr>
<tr>
<td>New Mexico</td>
<td>89</td>
<td>373,671</td>
<td>0.9</td>
<td>12.2</td>
<td>86.9</td>
</tr>
<tr>
<td>New York</td>
<td>684</td>
<td>3,122,415</td>
<td>26.2</td>
<td>17.5</td>
<td>56.3</td>
</tr>
<tr>
<td>North Carolina</td>
<td>118</td>
<td>1,657,802</td>
<td>0.0</td>
<td>28.9</td>
<td>71.1</td>
</tr>
<tr>
<td>North Dakota</td>
<td>182</td>
<td>106,107</td>
<td>43.5</td>
<td>49.5</td>
<td>6.9</td>
</tr>
<tr>
<td>Ohio</td>
<td>613</td>
<td>1,982,721</td>
<td>23.0</td>
<td>33.5</td>
<td>43.5</td>
</tr>
<tr>
<td>Oklahoma</td>
<td>524</td>
<td>669,744</td>
<td>10.6</td>
<td>30.8</td>
<td>58.6</td>
</tr>
<tr>
<td>Oregon</td>
<td>197</td>
<td>627,139</td>
<td>4.0</td>
<td>47.5</td>
<td>48.4</td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>500</td>
<td>2,037,273</td>
<td>34.2</td>
<td>34.0</td>
<td>31.8</td>
</tr>
<tr>
<td>Rhode Island</td>
<td>36</td>
<td>163,492</td>
<td>27.6</td>
<td>39.7</td>
<td>32.7</td>
</tr>
<tr>
<td>South Carolina</td>
<td>86</td>
<td>777,885</td>
<td>1.4</td>
<td>18.0</td>
<td>80.6</td>
</tr>
<tr>
<td>South Dakota</td>
<td>153</td>
<td>143,565</td>
<td>17.0</td>
<td>67.9</td>
<td>15.1</td>
</tr>
<tr>
<td>Tennessee</td>
<td>136</td>
<td>1,087,119</td>
<td>3.5</td>
<td>26.5</td>
<td>70.3</td>
</tr>
<tr>
<td>Texas</td>
<td>1,031</td>
<td>5,001,130</td>
<td>10.7</td>
<td>29.4</td>
<td>59.9</td>
</tr>
<tr>
<td>Utah</td>
<td>41</td>
<td>618,188</td>
<td>28.3</td>
<td>42.3</td>
<td>29.4</td>
</tr>
<tr>
<td>Vermont</td>
<td>274</td>
<td>948,847</td>
<td>44.3</td>
<td>41.0</td>
<td>14.7</td>
</tr>
<tr>
<td>Virginia</td>
<td>138</td>
<td>1,343,359</td>
<td>41.0</td>
<td>34.2</td>
<td>24.8</td>
</tr>
<tr>
<td>Washington</td>
<td>295</td>
<td>1,138,152</td>
<td>20.1</td>
<td>51.5</td>
<td>28.4</td>
</tr>
<tr>
<td>West Virginia</td>
<td>55</td>
<td>281,338</td>
<td>0.0</td>
<td>24.1</td>
<td>75.9</td>
</tr>
<tr>
<td>Wisconsin</td>
<td>424</td>
<td>971,626</td>
<td>29.0</td>
<td>49.7</td>
<td>21.2</td>
</tr>
<tr>
<td>Wyoming</td>
<td>48</td>
<td>95,347</td>
<td>17.9</td>
<td>77.0</td>
<td>5.2</td>
</tr>
</tbody>
</table>

Notes: The data shown are estimates containing uncertainty. Apparent differences among the estimates may not be statistically significant. The estimates shown are conceptually different from the SAIPE state estimates because some undefined geographic areas are not included in these estimates. The poverty ratio is computed as the number of children ages 5 to 17 in families in poverty divided by the number of children ages 5 to 17. School-age population does not include Kalawao County, Hawaii.

Source: U.S. Census Bureau, 2011 Small Area Income and Poverty Estimates
### Distribution of School District Poverty

Table 2 shows the distribution of school-age children by level of poverty rate of the school district. There were 53.8 million school-age children in 13,529 school districts. Of these, 18.3 percent of school-age children reside in school districts with poverty estimates below 10 percent. An estimated 32.5 percent of school-age children reside in districts with poverty estimates between 10 and 20 percent, and 49.2 percent of school-age children reside in districts with poverty greater than 20 percent.

Viewing the SAIPE poverty data separately by state suggests a wide range of variation in distribution of school-age population by poverty rate (Figure 22). The distribution shows that in some states, a large proportion of the school-age children reside in districts with poverty rates less than 10 percent, while in some states, the larger proportion of the school-age children reside in districts with poverty rates greater than 20 percent. Most states have a pattern somewhere in between, exhibiting a mix of poverty rate categories.

### Census Bureau Income and Poverty Data Sources

SAIPE is one of several sources of income and poverty data available from the Census Bureau. Other sources include: Annual Social and Economic Supplement to the Current Population Survey (CPS ASEC); American Community Survey (ACS); Survey of Income and Program Participation (SIPP); and Census 2000 long-form. Each of these sources differs from the others in some ways, such as the length and detail of its questionnaire, the number of households included (sample size), and the methodology used to collect and process the data. It is important to understand that different surveys and methods, which are designed to meet different needs and produce different results.

Because of its detailed questionnaire, the CPS ASEC is the source of both the timely official national estimates of poverty levels and rates and the widely used estimates of household income and individual earnings, as well as the distribution of that income. The CPS ASEC provides a consistent historical time series beginning in 1959 at the national level and can also be used to look at state-level trends and differences (through multi-year averages) beginning in 1980.

Since 2006, the ACS releases annual subnational estimates of income and poverty for all places, counties, and metropolitan statistical areas with a population of at least 65,000 as well as for states and for the nation. The sample size of the ACS is about 3.5 million addresses per year, making this survey exceptionally useful for subnational analyses. Three-year ACS estimates were made available starting in 2008 for areas and subpopulations as small as 20,000. Five-year ACS estimates are available for census tracts/block groups and for small subgroups of the population starting in 2010. More information on the American Community Survey is located at: [http://www.census.gov/acs/www/](http://www.census.gov/acs/www/).

The SIPP is most useful for understanding the dynamics of income and poverty (changes in income and poverty rates for the same households over three or four years) and for examining the nature and frequency of poverty spells. The SIPP also permits researchers to look at monthly or quarterly changes in income and poverty.

The Decennial Census long-form estimates offer the best measure of change between 1990 and 2000 for subnational areas and for subpopulations. Since the ACS replaces the long-form, the 2010 Census will not provide income and poverty estimates. Since 2010, ACS 5-year estimates provide data at the census tract level that is comparable to earlier decennial census estimates.

---

22 For analysis, 15 counties were omitted for having zero population for children ages 5 to 17.
23 Poverty rates for school districts are computed as the number of children ages 5 to 17 in families in poverty divided by the number of children ages 5 to 17. Thus, the estimate is not a true rate because children not in families are included in the denominator but not the numerator.
Figure 22. State School-Age Population by School District Poverty Rate: 2011

Notes: The percentages shown are estimates containing uncertainty. Apparent differences may not be statistically significant.
Poverty percent is comprised of the number ages 5 to 17 in families in poverty divided by the number ages 5 to 17.
Disclaimer

This paper is released to inform interested parties of ongoing research and to encourage discussion of work in progress. The views expressed on statistical, methodological, or technical issues are those of the authors and not necessarily those of the U.S. Census Bureau.

Acknowledgements

The Small Area Estimates Branch of the United States Census Bureau prepared this document.

Contact

For questions related to the contents of this document, including the SAIPE program’s estimates and methodology, contact the Small Area Estimates Branch at: (301) 763-3193 or sehsd.saipe@census.gov. For questions related to income and poverty definitions, the American Community Survey, or other Census Bureau surveys, contact the U.S. Census Bureau call center at 1-800-923-8282 (toll free) or visit ask.census.gov for further information.

Appendix

Appendix 1.
Appendix 2.

COUNTIES BY METRO/MICRO AREA STATUS

As of November 2010

Appendix 3. Supplemental Information for School Districts

School District Grade Relevance and Boundary Updates
Grade relevance refers to the grades served by school districts in a particular geographic area. For example, one district may provide secondary education for grades 9 to 12, while another district in the same geographic area may provide elementary education for grades Kindergarten through 8. These two districts thus occupy the same territory and can be said to have overlapping boundaries. In the SAIPE program’s computations, each child is assigned to a specific grade and counted among either the secondary or elementary school-age population in that area. This is done based on the child’s age in the decennial census and the updated grade spans of the secondary and elementary districts. In the above example of 9-12 and K-8 grade ranges, the relevant children ages 5 to 17 in the secondary district are the subset of child ages 14 to 17, and the relevant children ages 5 to 17 in the elementary district are the subset of children ages 5 to 13.

Grade spans and boundaries of school districts are updated through the Census Bureau’s school district boundary review, known as the School District Review Program (SDRP). Specifically, the SDRP identifies new districts and districts no longer in existence, collects boundary changes to existing school districts, and collects
other administrative information, such as the grade range for which each district is financially responsible. Further information is available at: [http://www.census.gov/geo/partnerships/sdrp.html](http://www.census.gov/geo/partnerships/sdrp.html).

**Comparing SAIPE Estimates to Means-Tested Government Programs**

Many government programs use the poverty guidelines to establish income eligibility for benefit programs that are above the official poverty thresholds used by SAIPE. The 2011 poverty threshold for a family of four was $22,811 (100 percent). The poverty guidelines, a simplified version of the poverty thresholds, are issued each year by the U.S Department of Health and Human Services (HHS). For example, income eligibility for the Supplemental Nutrition Assistance Program (SNAP) is generally income less than 130 percent of the poverty guideline. The Free and Reduced-Price Lunch (FRPL) program uses the same 130 percent of the poverty guideline for free lunch and 185% of the poverty guidelines for reduced price lunch. A family of four would need an annual income lower than $29,976 to be eligible for SNAP or free lunch and the same family would need an annual income lower than $42,643 to be eligible for reduced price lunch.

Appendix 4.

---

[29] For more information about poverty guidelines including how they differ from poverty thresholds used by the U.S. Census Bureau, see [http://www.census.gov/hhes/www/poverty/about/overview/measure.html](http://www.census.gov/hhes/www/poverty/about/overview/measure.html).

[30] Poverty guidelines are higher for Alaska and Hawaii.