

MAP: Uninsured at or below 138% of poverty, under age 65, (p. 19)

U.S. Census Bureau

Social, Economic and Housing Statistics Division (SEHSD)

Small Area Estimates Branch (SAEB)

Issued August 2013

Table of Contents

Introduc	tion	
	Highlights	1
	Small Area Health Insurance Estimates (SAHIE) Program	1
Demogra and Cou	aphic and Economic Differences in Health Insurance Status Across States Inties	S
	In all states, there are more uninsured working-age adults than uninsured children? In almost all states, males had higher uninsured rates than females	2 2 3 4 4
Geograp	Figure 3. Percent uninsured by income level, under age 65, by state, 2011 What is an income-to-poverty ratio (IPR)? Figure 4. Percent insured under age 65 vs. median household income (MHI), by county, 2011 U.S. Census Bureau health insurance, income, and poverty data sources bhic Variation in Health Insurance Coverage The lowest county-level uninsured rate is in Massachusetts and the	7 8
	highest is in AlaskaFigure 5. Percent uninsured, under age 65, by state, 201114Table 1. Lowest uninsured county by state, 20111Uninsured rates are lowest in the Northeast and Midwest12Figure 6. Distribution of county uninsured rates for the population, under age 65, by region, 201112Figure 7. County-level percent uninsured, under age 65, by region, 201114Figure 8. Distribution of county uninsured rates for the population under age 65, by metro status, 201114Metropolitan counties tend to have lower uninsured rates14Figure 8. Distribution of county uninsured rates for the population under age 65, by metro status, 201114Metropolitan and micropolitan statistical areas14	0 1 2 3 4 4

Time Trends in Health Insurance Status

	The majority of significant annual changes in uninsured rates were found in counties	5
	with a population size less than 65,000	.15
	From 2010 to 2011, 19 states saw a significant decline in uninsured rates	15
	Twenty-four percent of counties saw a significant change in their uninsured rate	
	from 2008 to 2011	.15
	Table 2. Number of counties with annual changes in the uninsured rate by	
	population size, 2008 to 2011	15
	Figure 9. Annual changes in state uninsured rates, 2008 to 2011	16
	Figure 10. County-level changes in uninsured rates, 2008 to 2011	17
Health	Care Changes	
	Using SAHIE to evaluate health care changes	18
	When to use SAHIE while analyzing health insurance coverage	18
	Figure 11. Percent uninsured under age 65, living at or below 138 and 400	
	percent poverty by county, 2011	.19

APPENDIX

Census Regions and Divisions of the U.S. map	20
Counties by Metro/Micro Area Status map	
Counties Published in the 2011 ACS 1-Year Estimates map	
Disclaimer, Acknowledgements and Contact Information	21

Small Area Health Insurance Estimates (SAHIE): 2011 Highlights

Introduction

The U.S. Census Bureau's Small Area Health Insurance Estimates (SAHIE) program produces timely estimates for all counties and states by detailed demographic and income groups. The SAHIE program produces single-year estimates of health insurance coverage for every county in the U.S. The estimates are model-based and consistent with the American Community Survey (ACS). They are based on an "area-level" model that uses survey estimates for domains of interest, rather than individual responses. The estimates are "enhanced" with administrative data, within a Hierarchical Bayesian framework.

SAHIE data can be used to analyze geographic variation in health insurance coverage, as well as disparities in coverage by race/ethnicity, sex, age and income levels that reflect thresholds for state and federal assistance programs. Because consistent estimates are available from 2008 to 2011, SAHIE reflects annual changes over time.

Highlights

In 2011,

- State-level uninsured rates for the population under age 65 ranged from 4.9% to 25.7%¹.
- County-level uninsured rates for the population under age 65 ranged from 3.1% to 46.0%.
- State-level uninsured rates for the population under age 65 declined in 19 states from 2010 to 2011, while they increased for only two. The other 29 states and the District of Columbia did not have a significant change.
- The county-level median uninsured rate for the population under age 19 was 7.7%. This was lower than the working age (18-64) median uninsured rate, 21.5%.

Small Area Health Insurance Estimates (SAHIE) Program

The SAHIE program models health insurance coverage by combining survey data with population estimates and administrative records from the following sources: American Community Survey (ACS); demographic population estimates; aggregated federal tax returns; participation records for the Supplemental Nutrition Assistance Program (SNAP); County Business Patterns; Medicaid and the Children's Health Insurance Program (CHIP) participation records; and Census 2010.

Prior to 2008, SAHIE used the Annual Social and Economic Supplement to the Current Population Survey (CPS ASEC) to produce county and state estimates. In 2008, SAHIE switched to using survey estimates from the ACS. This methodological update has allowed the program to increase the precision of state and county level coverage for detailed demographic groups, and add additional income categories of relevance to the recent healthcare changes. More information on methodology and other documentation is accessible from the main SAHIE page, http://www.census.gov/did/www/sahie/index.html.

A related program to SAHIE is the Small Area Income and Poverty Estimates (SAIPE) program, which produces estimates of poverty for all school districts, counties, and states. Information about the SAIPE program is available at: http://www.census.gov/did/www/saipe/index.html.

1

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.

Demographic and Economic Differences in Health Insurance Status Across States and Counties

SAHIE demographic and economic domains allow data users to analyze in detail the health insurance status of individuals living in counties and states. SAHIE has a total of 216,790 county and state-level estimates with corresponding margins of error. SAHIE cross-tabulates health insurance coverage with a selection of age, sex, income, and race and ethinicity groups.² For example, in 2011, California's uninsured rate for Hispanic women, ages 50-64, living at or under 200% of poverty, was 46.2%. Also, in 2011, Queens County, New York had an uninsured rate of 40.9% for males, ages 18 to 64, living at or below 138% of poverty. The following sections will look at the demographic and economic composition of the insured and uninsured across the U.S.

In all states, there are more uninsured working-age adults than uninsured children

Estimates of the uninsured population vary by age group across counties and states. The difference is clear when comparing children and working-age adults. Figure 1 (page 3), shows two maps comparing county-level uninsured rates for working-age adults, ages 18 to 64, and children, under age 19. In 2011, working age adults had a higher range of uninsured rates than children, 3.9% to 52.5% compared to 1.3% to 32.2%, respectively. Children had uninsured rates less than 10% in 2,216 out of 3,143 counties (70.5% of counties). The working-age population had uninsured rates less than 10% in only 50 counties (1.6% of counties). This difference can be partially attributed to the Children's Health Insurance Program (CHIP), which provides health coverage to children whose families have income too high to qualify for Medicaid but are unable to afford private insurance.

In almost all states, males had higher uninsured rates than females

In 48 states and the District of Columbia, males under age 65 had significantly higher uninsured rates than females under age 65. Of the 3,143 U.S. counties, males had a significantly higher uninsured rate in 1,003 counties; however, there were no counties in which the uninsured rate for females was significantly higher.

SAHIE Demographic and Economic Domains

For all states, estimates of people with and without health insurance coverage are provided by:

- ages 0-64, 18-64, 40-64 and 50-64;
- female, male, and both sexes;
- all races, White alone (non-Hispanic), Black alone (non-Hispanic), and Hispanic (any race);
- all incomes, less than or equal to 138, 200, 250 and 400 percent of the poverty;
- a special estimate for the 0-18 age group for 'both sexes,' and 'all incomes,' less than or equal to 138, 200, 250 and 400 percent of the poverty threshold; and

For all counties, estimates of people with and without health insurance coverage are provided by:

- ages 0-64, 18-64, 40-64 and 50-64;
- female, male, and both sexes;
- all incomes, less than or equal to 138, 200, 250 and 400 percent of the poverty;
- a special estimate for the 0-18 age group for 'both sexes,' and 'all incomes,' less than or equal to 138, 200, 250 and 400 percent of the
 poverty threshold

² Race and ethnicity are available only at the state level.

HEALTH INSURANCE COVERAGE ESTIMATES Percent Uninsured, 2011



In all states, minorities had higher uninsured rates compared to non-Hispanic whites

The state-level maps in Figure 2 (page 5) compare uninsured rates for the total population and for major racial and ethnic groups: non-Hispanic White, non-Hispanic Black, and Hispanic.

In every state, the uninsured rate was highest for Hispanics, followed by non-Hispanic Blacks, followed by non-Hispanic Whites. County-level uninsured rates for Hispanics ranged from 10.7% to 43.6%, non-Hispanic Blacks ranged from 6.6% to 29.1%, and the rates for non-Hispanic Whites went from 3.8% to 19.6%.

Low-income groups had higher uninsured rates

Figure 3 (page 6) consists of four state-level maps which highlight insurance coverage by several key Incometo-Poverty Ratios (IPR) for the entire nation. IPR is the family income divided by the federal poverty threshold (see page 7). The maps provide an illustration of the entire U.S. population in states, under age 65, within IPR categories, and without health insurance. Alaska, Montana, and states in the southwest (excluding Arizona), south-central, and southeastern United States tend to have the highest uninsured rates across all IPR categories. States with the lowest uninsured rates tend to be located in the north-central and northeastern United States across all IPR categories.

The first map shows the SAHIE estimate for the population under age 65, at all income levels. The uninsured rates ranged from as low as 4.9% to as high as 25.7%.

The second map shows the SAHIE estimate for the population under age 65 with family incomes less than or equal to 138% IPR. Uninsured rates ranged from 9.3% to 40.0%.

The third map shows the SAHIE estimate for the population under age 65 with family incomes less than or equal to 250% IPR. The uninsured rates ranged from 9.4% to 38.0%.

The fourth map shows the SAHIE estimate for the under age 65 population with a family income less than or equal to 400% IPR. The uninsured rates ranged from 7.9% to 33.3%.

The IPR levels in SAHIE were chosen because many state health programs for low-income individuals use eligibility cutoffs at 200% or 250% of the poverty threshold and because the Patient Protection and Affordable Care Act (ACA) has provisions to assist families with incomes less than or equal to 138% and 400% of the poverty threshold. The ACA allows states to expand Medicaid to cover families with incomes of 138% IPR or less, and authorizes tax credits to help pay for health coverage in the new health insurance exchanges for families with incomes between 138% and 400% IPR.





6

What is an Income-to-Poverty Ratio?

Poverty status is determined by comparing total annual before tax income to a table of income thresholds that vary by family size, number of related children, and age of householder. If a family's income is less than the dollar value of the appropriate thresholds, then that family and every individual in it are considered to be in poverty.

To determine a family or individual's income-to-poverty (IPR) threshold, take their before-tax income and divide by the appropriate poverty threshold. Then multiply by 100 to determine how far the family or individual earner is below or above poverty (a family with an IPR of 1.0 is living at the poverty threshold).

For example, take a family of four, two parents and two children, with a total annual income of \$45,500. In 2011, a family of this size had a poverty threshold of \$22,811. Their income-to-poverty ratio is:

 $\frac{\text{Total Annual Income}}{\text{Poverty Threshold}} = \frac{\$45,500}{\$22,811} = 1.995 = 199.5\% \text{ of poverty}$

The family of four is living just below 200% of poverty. This means their income is just below twice their determined poverty 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.

For more information, see "How Poverty is Calculated in the American Community Survey" at: http://www.census.gov/hhes/www/poverty/about/overview/measure.html

Figure 4 (page 8) contains 2 county-level maps. The top panel shows the percentage of the under age 65 population insured, by quartiles, and the bottom panel shows median household income (MHI) by quartiles.

The county-level rate of under age 65 and insured ranged from 54% to 96.9%. The map shows that those counties whose insured rates are in the top quartile (86% insured and higher) are located primarily in the north central US, northeast, and Hawaii. The counties with the lowest percentage of insured (or those within the bottom 25th percentile, 78.5% insured and lower) are located primarily in the southeast, south-central, and western U.S., including Alaska.

The MHI quartiles were derived from dollar amounts. The county-level MHI ranged from a low of \$20,990 in Alabama to a high of \$119,525 in Virginia. The range of the MHIs in the top 25th percentile was \$48,954 to \$119,525. The range in the 50th and 75th percentiles was \$41,974.50 to \$48,945, and the bottom 25th percentile ranged from \$20,990 to \$36,471.

HEALTH INSURANCE COVERAGE AND INCOME ESTIMATES Percent Insured and Median Household Income, 2011



8

U.S. Census Bureau Health Insurance, Income, and Poverty Data Sources

SAHIE is one of several sources of health insurance, income, and poverty data available from the Census Bureau. 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 are designed to meet different needs and produce different results. Other sources include: Annual Social and Economic Supplement to the Current Population Survey (CPS ASEC); American Community Survey (ACS); and Survey of Income and Program Participation (SIPP).

CPS ASEC

Because of its detailed questionnaire, the CPS ASEC is the source of 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. It is also the recommended source of national estimates of health insurance coverage by income. The CPS ASEC provides a consistent historical time series beginning in 1987 for health insurance and 1959 for poverty and income at the national level. The data can also be used to look at state-level trends and differences (through multi-year averages) beginning in 1980.

<u>ACS</u>

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. It was not until 2008 that the ACS began releasing data on health insurance status. 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 poverty and income, and in 2010 for health insurance, for areas and subpopulations as small as 20,000. Five-year ACS estimates looking at poverty and income are available for census tracts/block groups and for small subgroups of the population starting in 2010. In December 2013, the 2008-2012 five-year data will be released and will include, for the first time, health insurance data. More information on the American Community Survey is located at: http://www.census.gov/acs/www/.

<u>SIPP</u>

The SIPP is most useful for understanding the dynamics of health insurance, income, and poverty (changes in health insurance, 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 health insurance, income, and poverty.

Geographic Variation in Health Insurance Coverage

Small Area Health Insurance Estimates allow data users to look at the insured and uninsured across states and counties. Having sub-state level estimates allows users to look at the distribution and concentration of the uninsured and insured within states, regions, and metropolitan areas. For example in Florida, around the Miami metropolitan area, there were higher uninsured rates than in central and northern Florida. The following sections will look at the geographic variation of the insured and uninsured.

The lowest county-level uninsured rate is in Massachusetts and the highest is in Alaska

Figure 5 (page 10) shows SAHIE 2011 uninsured rates for the population under age 65 by state. Four states have an uninsured rate of less than 10%. Thirty-five states have an uninsured rate between 10% to 20%. Twelve states have an uninsured rate of greater than 20%.

Table 1 (page 11) shows the county with the lowest uninsured rate for each state. In most cases, the county with the lowest rate in each state has a similar rank to the state's overall uninsured rate. However, there are a few exceptions: Los Alamos County has an uninsured rate of 4.7%, while New Mexico overall has 23% uninsured. New Jersey has an uninsured rate of 14.9%, but Hunterdon County has an uninsured rate of 7.3%.



Figure 5. Percent Uninsured, Under Age 65, by State, 2011

Notes: The percentages shown are estimates containing uncertainty. Apparent differences may not be statistically significant. Source: U.S. Census Bureau, 2011 Small Area Health Insurance Estimates, August 2013

Table 1. Lowest Uninsured County by State, 2011

State	County	Percent Uninsured
Massachusetts	Norfolk County	3.1
New Mexico	Los Alamos County	4.7
Wisconsin	Waukesha County	6.0
Minnesota	Carver County	6.5
Vermont	Chittenden County	7.0
Hawaii	Honolulu County	7.3
New Jersey	Hunterdon County	7.3
Connecticut	Tolland County	7.3
Ohio	Delaware County	7.5
Virginia	Falls Church City	7.5
lowa	Bremer County	7.6
South Dakota	Union County	7.7
Colorado	Douglas County	7.7
Maryland	Calvert County	7.8
New York	Saratoga County	8.0
Illinois	Monroe County	8.2
District of Columbia	District of Columbia	8.3
Pennsylvania	Montgomery County	8.4
Rhode Island	Washington County	8.6
Nebraska	Washington County	8.9
Tennessee	Williamson County	9.2
Indiana	Hamilton County	9.4
North Dakota	Mercer County	9.5
Michigan	Washtenaw County	9.8
Kansas	Johnson County	9.9
Missouri	St Charles County	9.9
Delaware	New Castle County	10.4
New Hampshire	Rockingham County	10.4
Kentucky	Oldham County	10.8
Maine	Cumberland County	11.4
California	Marin County	12.0
Utah	Davis County	12.0
Alabama	Shelby County	12.1
Georgia	Fayette County	13.1
Washington	Kitsap County	13.1
Idaho	Ada County	14.0
Arizona	Greenlee County	14.4
West Virginia	Putnam County	14.4
Oregon	Clackamas County	14.5
Wyoming	Converse County	14.7
Mississippi	Madison County	15.0
Louisiana	St Charles Parish	15.1
North Carolina	Onslow County	15.2
Texas	Carson County	15.4
Florida	St. Johns County	15.4
Montana	Lewis and Clark County	15.6
Oklahoma	Canadian County	15.7
South Carolina	Richland County	15.9
Arkansas	Saline County	16.1
Alaska	Anchorage Borough	18.3
Nevada	Eureka County	18.8

Notes: The percentages shown are estimates containing uncertainty. Apparent differences may not be statistically significant. Source: U.S. Census Bureau, 2011 Small Area Health Insurance Estimates, August 2013

Uninsured rates are lowest in the Northeast and Midwest

Figure 6 is a distribution of county uninsured rates for the population under age 65 by region.

The Census Bureau defines four regions in the United States; the West (includes Alaska and Hawaii), the Midwest, the South, and the Northeast. The county-level uninsured rates ranged from a low of 3.1% in Norfolk County, Massachusetts to a high of 46% in Aleutians East Borough, Alaska.

The counties with the highest rates of uninsured were concentrated mostly in the Southern and Western regions, predominately in south Florida, southern Georgia, southwest Arkansas, Texas, northwest New Mexico, southern Colorado, Montana, Idaho, southwest Nevada, and Alaska. Refer to Figure 7 (page 13).

The counties with the lowest rates of uninsured were concentrated in the Midwestern and Northeastern regions, most notably in Iowa, Minnesota, Wisconsin, New York, Vermont, Massachusetts, Connecticut, and counties along the Pennsylvania/New Jersey border. Additionally, the extreme northeastern portion of the South, most notably the counties located within the Baltimore and District of Columbia metropolitan areas, had low rates of uninsured. Refer to Figure 7 (page 13).



Figure 6. Distribution of county uninsured rates for the population, under age 65, by region, 2011

Region

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 uninsured 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 Health Insurance Estimates, August 2013



Metropolitan counties tend to have lower uninsured rates

Counties located in metropolitan and micropolitan statistical areas tend to have lower median uninsured rates for the population under age 65 than counties outside of these areas. The estimates for the uninsured rates in metropolitan area counties ranged from 3.1% to 38.8%, with a midpoint of 16.3%. The estimates for the uninsured rates in micropolitan area counties ranged from 4.7% to 35.1% with a midpoint of 17.9%. The estimates for the uninsured rates in counties outside of metropolitan and micropolitan areas ranged from 7.3% to 46%, with a midpoint of 18.8%.



Figure 8. Distribution of county uninsured rates for the population, under age 65, by metro status, 2011

Area

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 uninsured 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 Health Insurance Estimates, August 2013

Metropolitan and Micropolitan Statistical Areas

Metropolitan and micropolitan statistical areas are geographical entities defined by the U.S. Office of Management and Budget (OMB) for use by federal statistical agencies in collecting, tabulating, and publishing federal statistics. They are the result of the application of published OMB standards to Census Bureau data. A metropolitan area contains an urban core population of 50,000 or more, and a micropolitan area contains an urban core population of at least 10,000 (but less than 50,000). Each metropolitan and micropolitan area consists of one or more counties and includes the counties containing the urban core area, as well as any adjacent counties that have a high degree of social and economic integration (as measured by commuting to work) with the urban core.

In the Appendix (page 20), there 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.

Time Trends in Health Insurance Status

The majority of significant annual changes in uninsured rates were found in counties with a population size less than 65,000

Table 2 displays the number of counties with significant annual changes in the uninsured rate by population size. The majority of counties with significant annual changes in uninsured rates were found in counties with an under age 65 population size less than 65,000. SAHIE is the only data source that provides annual estimates of health insurance coverage for all counties in the United States.

From 2010 to 2011, 19 states saw a significant decline in uninsured rates

Figure 9 (page 16) shows the annual state-level change in uninsured rates for the population under age 65 from 2008 to 2011. Of the 50 states and the District of Columbia, from 2008 to 2009, 32 states saw a significant change in their uninsured rate. Of the states with statistically significant changes, 29 states had an increase in uninsured rate, while only 3 states had a decrease in uninsured rates. This pattern changes from 2010 to 2011, when 21 states saw a significant change in uninsured rates, while 19 states had a significant decrease in their uninsured rate.

Twenty-four percent of counties saw a significant change in their uninsured rate from 2008 to 2011

Figure 10 (page 17) shows the county-level changes in uninsured rates for the population under age 65 from 2008 to 2011. Of the 3,143 counties in the U.S., 759 counties had a statistically significant difference in uninsured rate after the 4 year period. Of the counties with statistically significant changes, 432 counties had a significant increase in the uninsured rate; while 327 counties had a significant decrease in uninsured rate. Areas with significant increases in uninsured rates include south Florida, northwest Washington, east Pennsylvania, and central Massachusetts. Areas with significant declines in uninsured rates include west Texas, east Arizona, northeast New York, Vermont, and northwest North Dakota.

Annual Change	County Population Under Age 65	Number of Counties with a Significant Change	Number of Counties with a Significant Increase	Number of Counties with a Significant Decrease
	Total	479	356	123
2008 to 2009	Above 65,000	150	131	19
	000, Under 65	329	225	104
	Total	371	265	106
2009 to 2010	Above 65,000	110	97	31
	Under 65 ,000	261	168	93
2010 to 2011	Total	270	28	242
	Above 65,000	71	11	60
	000, Under 65	199	17	182

Table 2. Number of Counties with Annual Changes in the Uninsured Rate by Population Size,2008 to 2011

Note: A significant change in uninsured rate indicates that the county rate was statistically different from its prior year's rate assuming a 90 percent confidence level. Source: U.S. Census Bureau, 2011 Small Area Health Insurance Estimates, August 2013





U.S. Department of Commerce Economic and Statistics Administration U.S. CENSUS BUREAU

Health Care Changes

Using SAHIE to evaluate health care changes

Small Area Health Insurance Estimates can be a useful tool when evaluating the impacts of health care policy changes at the state and county-level. By providing estimates at IPRs 0-400% and 0-138%, SAHIE provides state and county-level estimates for uninsured populations that may be eligible to participate in the Health Insurance Exchanges or Medicaid. The 0-400% IPR group provides estimates of the uninsured population that may qualify for the Health Insurance Exchanges or for Medicaid. The 0-138% IPR group provides estimates of the uninsured population that may qualify for the Health Insurance Exchanges or for Medicaid. The 0-138% IPR group provides estimates of the uninsured population that may qualify, in participating states, for Medicaid. Refer to Figure 11 (page 19).

The estimates can be helpful when locating where potential program participants live. For example, in 2011, Illinois, a state that has chosen to expand their Medicaid program and create a state-federal partnership health exchange marketplace, had 1,423,796, or 20.9%, uninsured individuals under age 65 living at or below 400% poverty. However, when you examine data at the county-level, users can observe that eligible program participants are not evenly distributed across the state. For example, Cook County, the county containing Chicago, had 748,431, or 25.3%, uninsured individuals under age 65 living at or below 400% poverty. Overall, Cook County had 52.5% of the state's non-elderly uninsured that are eligible for the Health Exchange Marketplace or Medicaid. (Note that Cook County has 43.4% of the state's population under age 65 living at or below 400% poverty both insured and uninsured).

SAHIE's demographic domains allow for a comprehensive evaluation of other potential program participants. For example, in 2011, Arizona (a state that decided to expand their Medicaid program) had an estimated 371,974, or 39.1%, non-elderly adults, ages 18-64, living at or under 138% poverty that were uninsured. However, when looking at the number of uninsured Hispanic males ages 18 to 64 that may be eligible for Medicaid subsidies, Arizona had 101,071 or 57.1% in this group. In 2011, Hispanic males made up 27.2% of the total number of uninsured that may qualify for Medicaid subsidies when health care laws go into effect. (Note, in Arizona, Hispanic males only make up 18% of the total population ages 18 to 64 living at or below 138% poverty).

To make quick evaluations of your state's potential program participants, visit the SAHIE interactive data and mapping tool. The tool allows users to download custom tables, create and download thematic maps of insured and uninsured rates, and state health insurance coverage trends. The SAHIE website is located at: http://www.census.gov/did/www/sahie/.

When to use SAHIE while analyzing health insurance coverage

Small Area Health Insurance Estimates (SAHIE) uses American Community Survey (ACS) estimates to model state and county health insurance estimates. The ACS is an ongoing survey that provides annual demographic, social, and economic data. It samples 3.5 million Americans per year. In 2008, the ACS started collecting data on health insurance. Prior to 2008, SAHIE used the Current Population Survey's Annual Social and Economic Supplement to develop state and county-level estimates. SAHIE switched to the ACS due its larger sample size and coverage area.

SAHIE is the only source of health insurance estimates for counties with small populations within a single year. Because ACS five-year estimates aggregate data over a five-year period, they may mask year-to-year variation. SAHIE estimates improve upon ACS estimates by borrowing strength from administrative records and Census data. SAHIE estimates are broadly consistent with the direct survey estimates, but with the help of other timely information, SAHIE estimates are more precise than the one-year survey estimates for most counties.

The ACS releases multiyear data for all counties with 5-year estimates. The 2008-2012 ACS, to be released in December 2013, will have estimates of health insurance coverage for every county.



U.S. Department of Commerce Economic and Statistics Administration U.S. CENSUS BUREAU

APPENDIX

Census Regions and Divisions of the U.S. map



Counties by Metro/Micro Area Status Map



Counties Published in the 2011 ACS 1-Year Estimates map



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 SAIHE program's estimates and methodology, contact the Small Area Estimates Branch at: (301) 763-3193 or <u>sehsd.sahie@census.gov</u>. For questions related to health insurance, 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.