

Health Insurance Coverage Statistics from the Census Bureau – National and Local

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Symposium of the U.S. Statistical Agencies
November 13, 2013

The U.S. Census Bureau Measures the Nation's People, Places, and Economy

U.S. Department of Health & Human Services

NIH National Institutes of Health
Turning Discovery Into Health

Health Information | Grants & Funding | New

**NATIONAL
CANCER
INSTITUTE**

CDC Centers for Disease Control and Prevention
CDC 24/7: Saving Lives. Protecting People.™

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National Center for Health Statistics ...Monitoring the Nation's Health

CMS.gov
Centers for Medicare & Medicaid Services

FDA U.S. Food and Drug Administration
Protecting and Promoting *Your* Health

HHS.gov
U.S. Department of Health & Human Services

U.S. Department of Health & Human Services

AHRQ Agency for Healthcare Research and Quality
Advancing Excellence in Health Care

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**United States
Census
Bureau**

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

Census Bureau Statistics on Health

Social Determinants of Health

- Age
- Ancestry
- Commuting patterns (distance/time)
- Disability
- Educational attainment
- Employer type (industry, class of work)
- Employment status
- Fertility
- Food stamps receipt
- Grandparents as caregivers
- Household and family composition
- Housing value
- Income and earnings amounts
- Labor force status
- Language spoken and English ability
- Marital status
- Mobility
- Nativity status/citizenship
- Number of children
- Other income sources
- Perceived Health status
- Poverty
- Race and ethnicity
- School enrollment
- Sex
- Transportation to work
- Type of work (occupation)
- Veterans Disability
- Veterans status
- Wealth
- Well-being: basic needs, consumer durables, ability to get help, food security, fear of crime

Physical Determinants of Health

Housing

Age of housing

Plumbing

Heating

Housing cost (monthly)

Housing conditions

Health care costs and financing

Health insurance (Insured/not)

Types of health insurance

Spells of health insurance

Employer health insurance take-up

Reasons not covered

Out-of-pocket spending (MOOP)

Family Care

Health care services

Accessibility

Health Care Workers

Number of medical personnel

Availability of medical offices/hospitals

Types of medical

Utilization of health services

What kinds of questions about Health Insurance coverage can we answer with Census Bureau statistics?

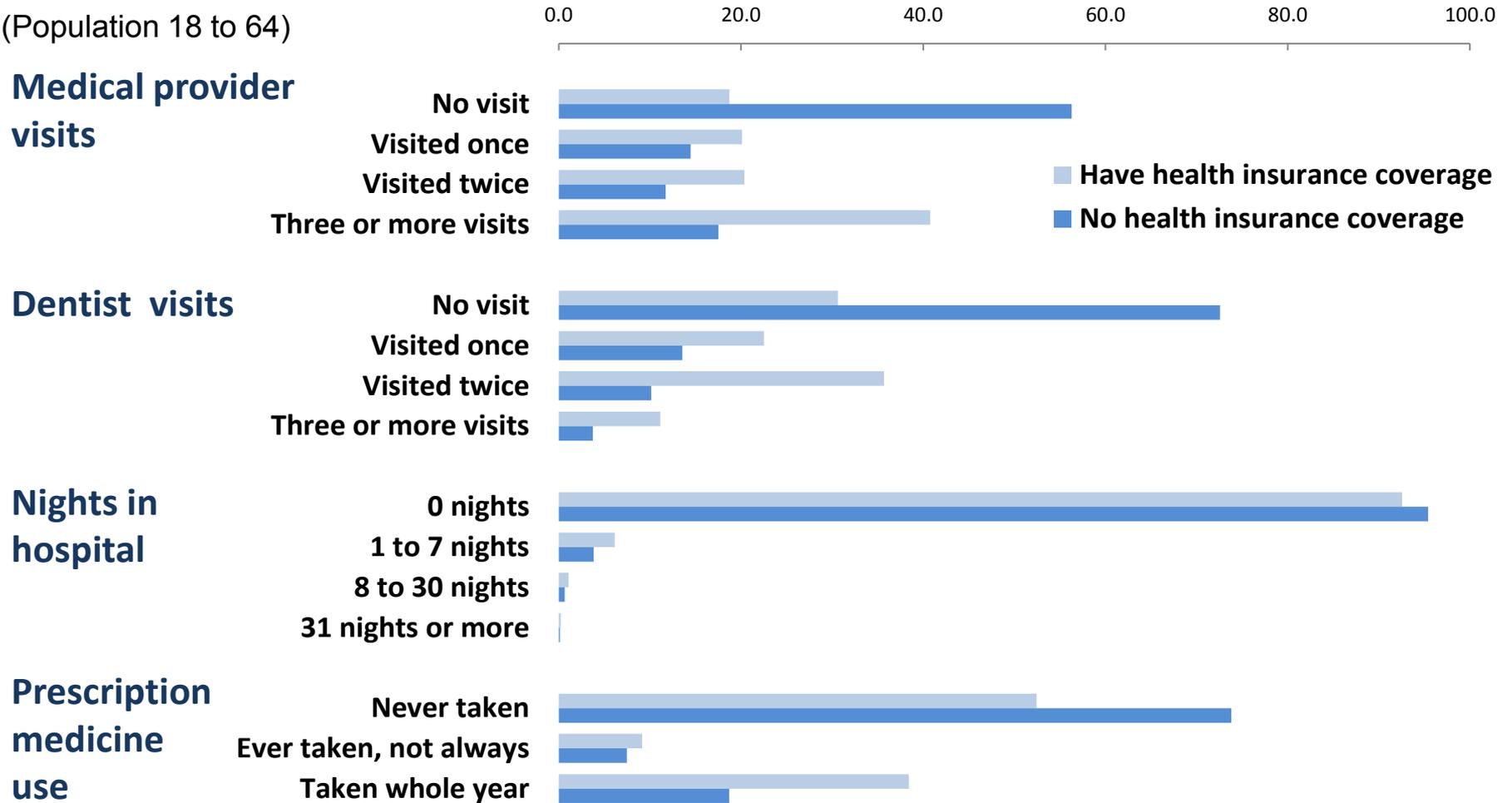
- How many people lack health insurance?
- How has this changed?
- What kinds of coverage do people have?
- What are their characteristics?
- How does this differ by geography?



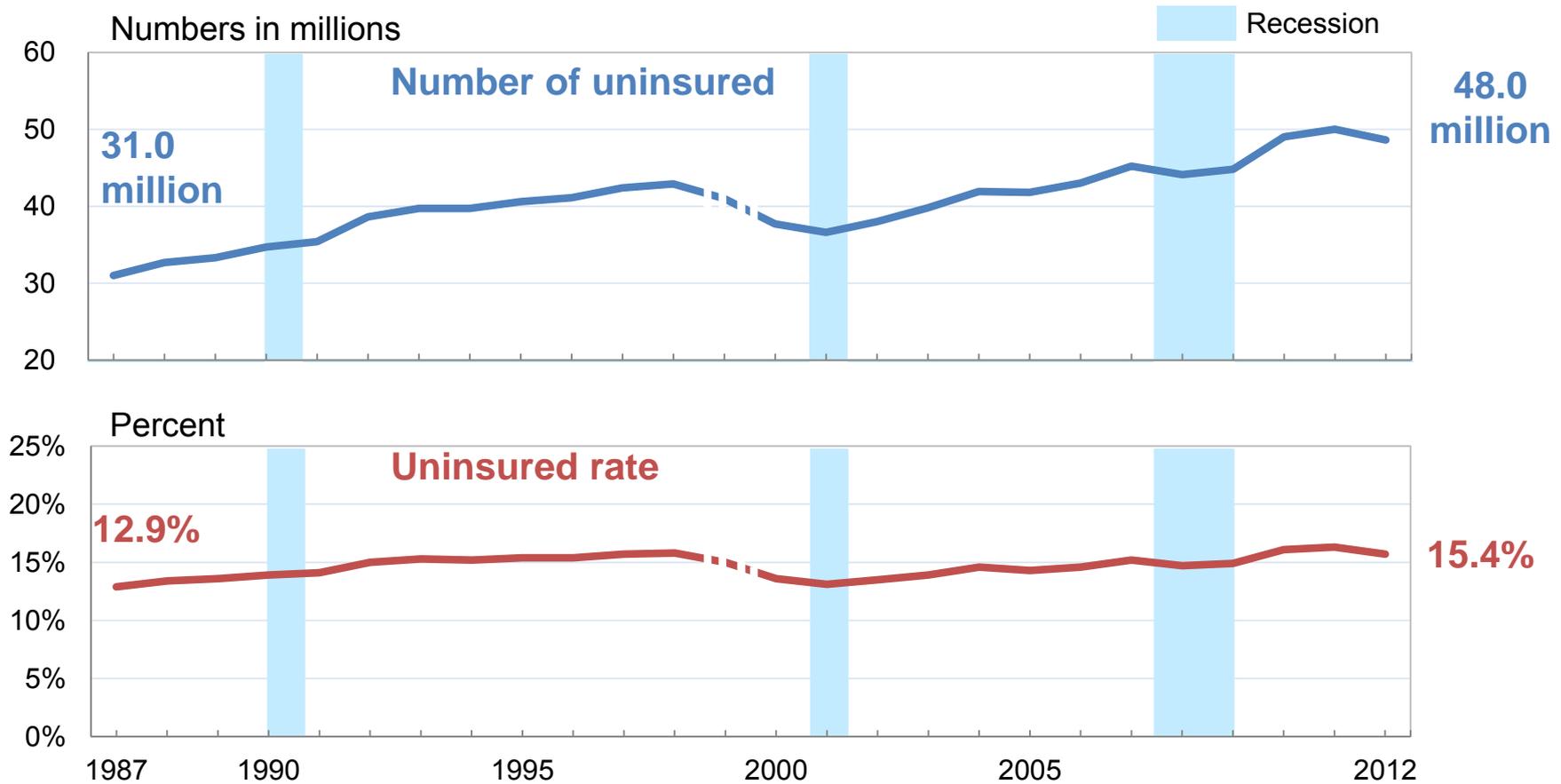
The Health Care Picture for the Uninsured

Medical Utilization by Health Insurance Coverage: 2010

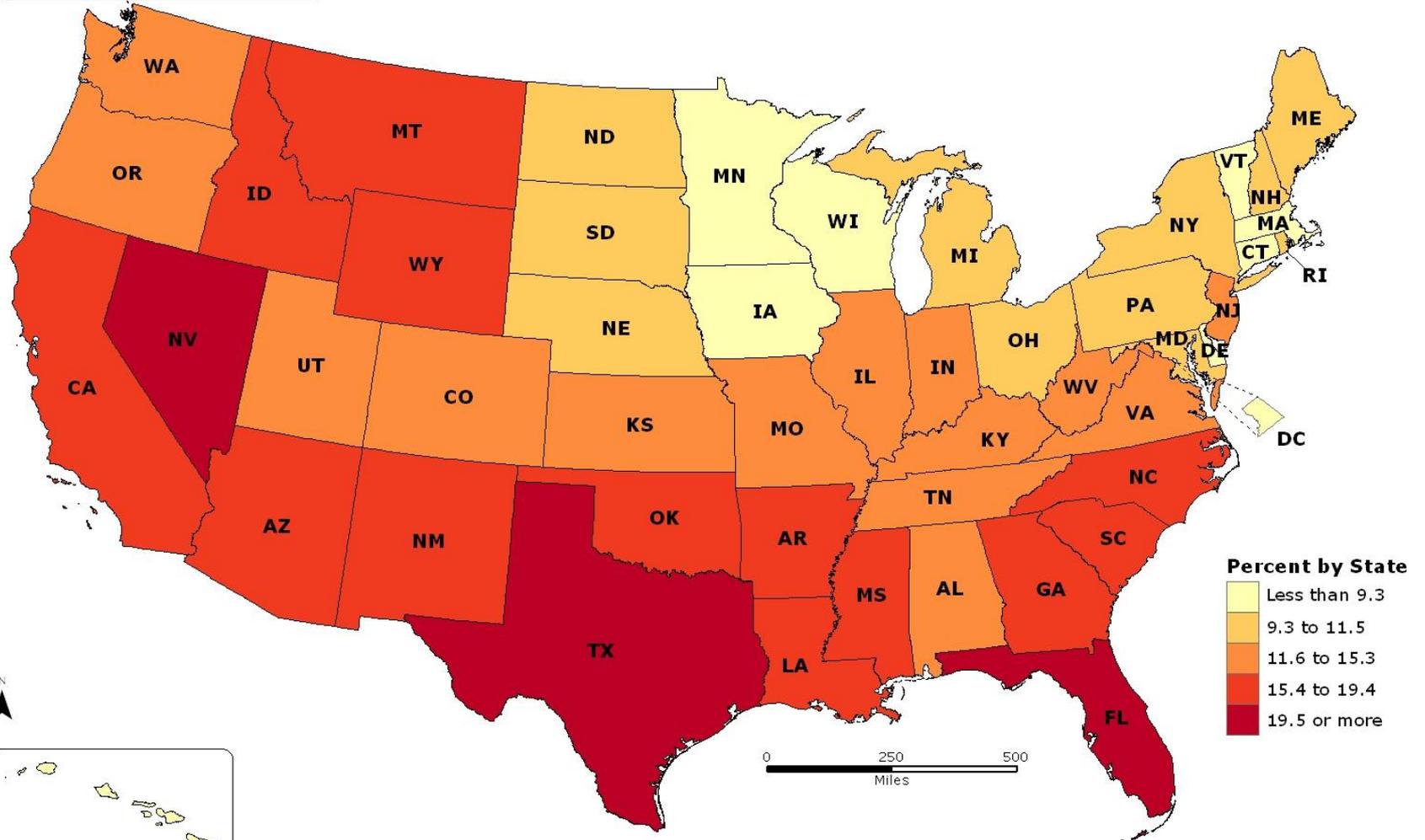
(Population 18 to 64)



Uninsured Rate and Number of Uninsured: 1987 to 2012

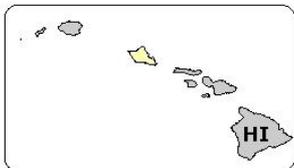
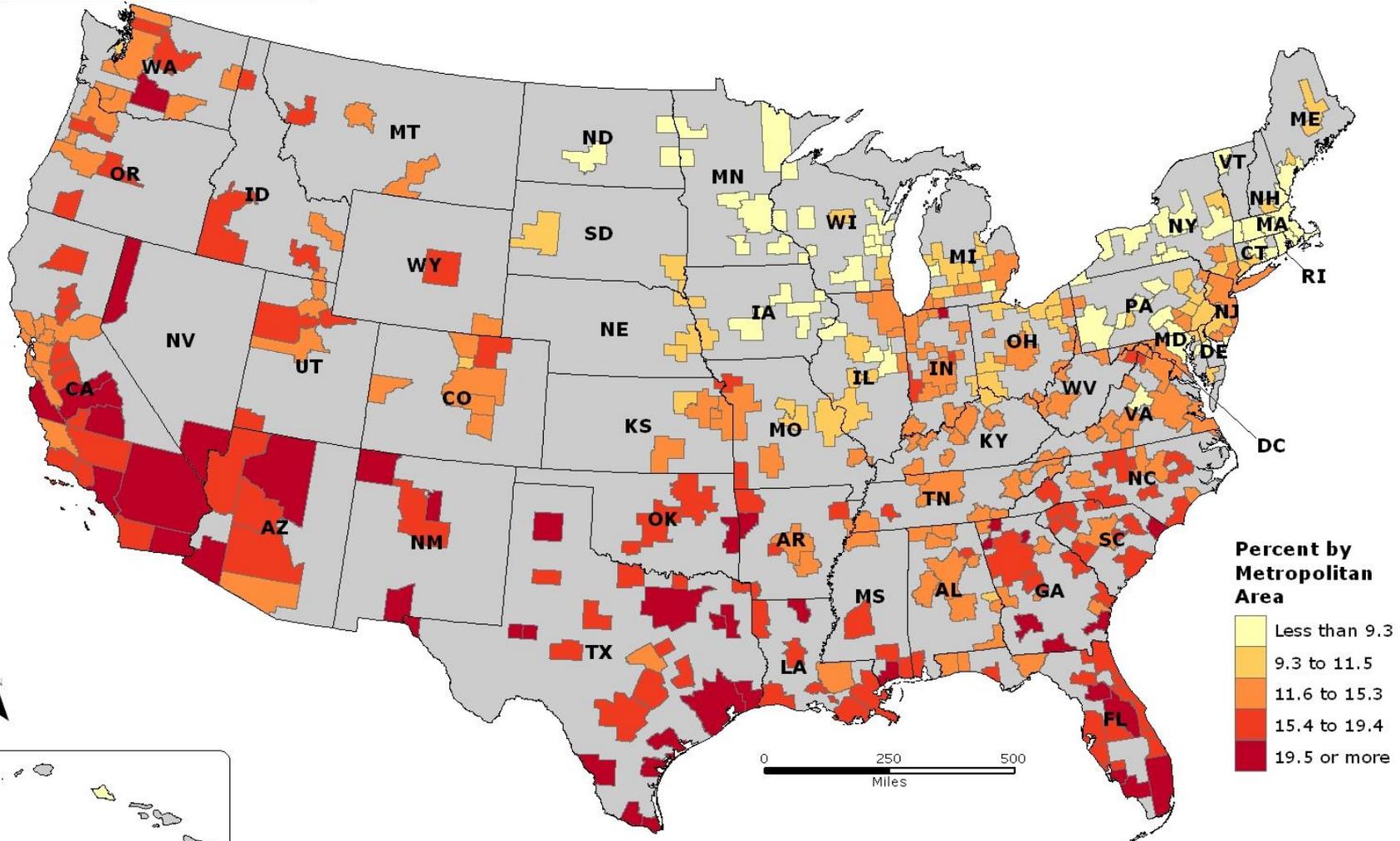


Percentage of Uninsured People in the Past 12 Months for the United States: 2012



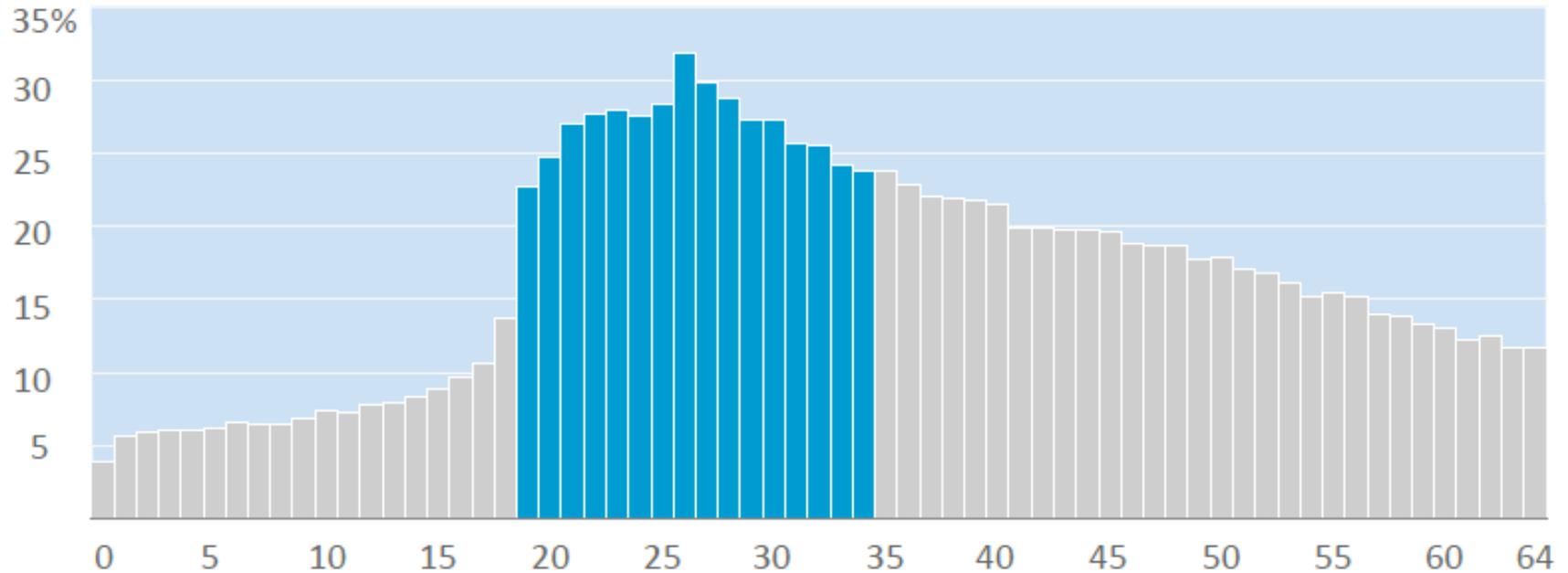
United States[™]
Census
Bureau

Percentage of Uninsured People in the Past 12 Months by United States Metropolitan Areas: 2012



United States
Census
Bureau

Percent Uninsured by Single Year of Age 0 to 64

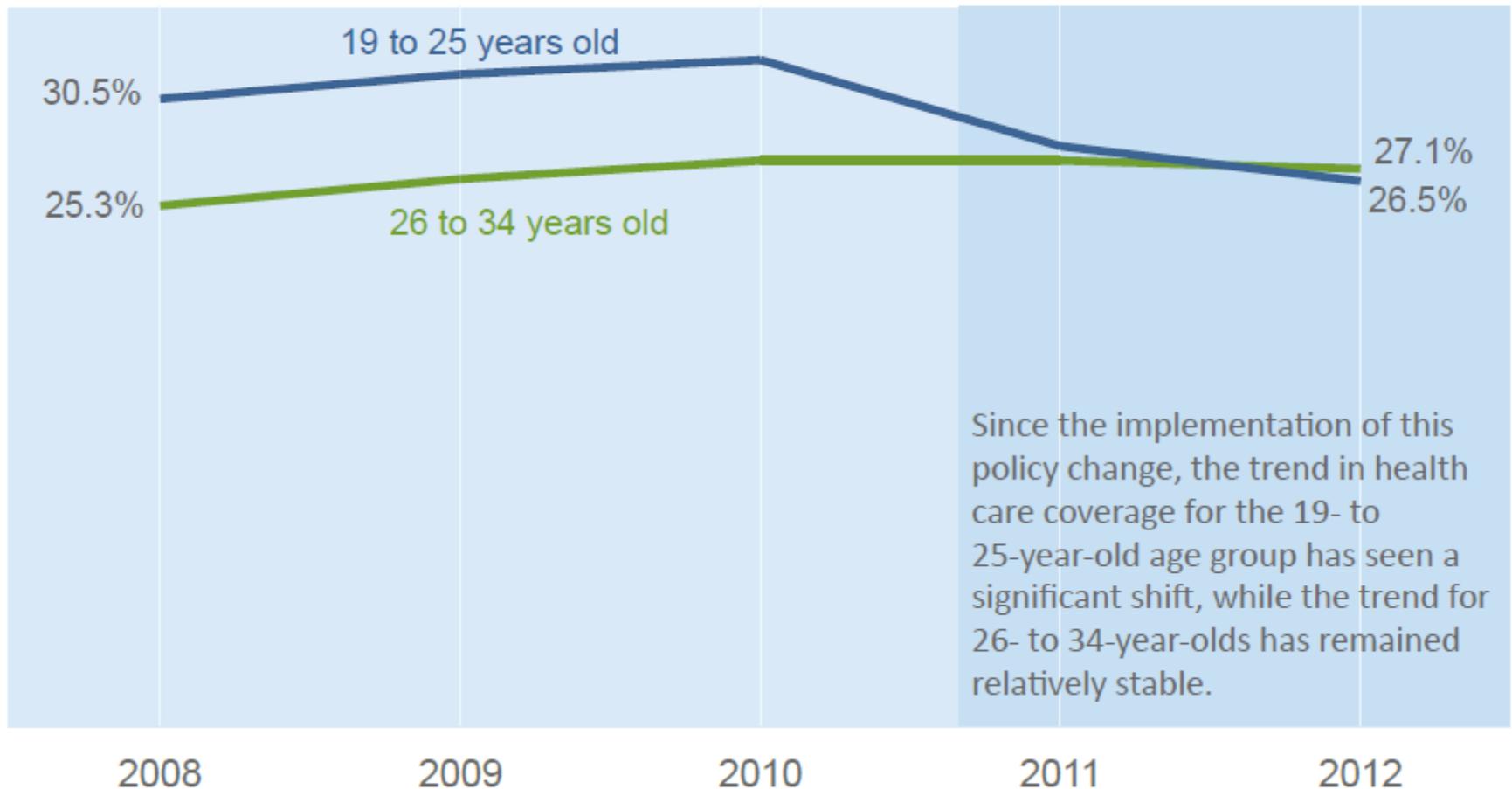


The 18 million uninsured 19- to 34-year-olds in 2012 accounted for **40 percent** of the uninsured population under the age of 65.

Uninsured Rates for Young Adults

Policy change September 23, 2010

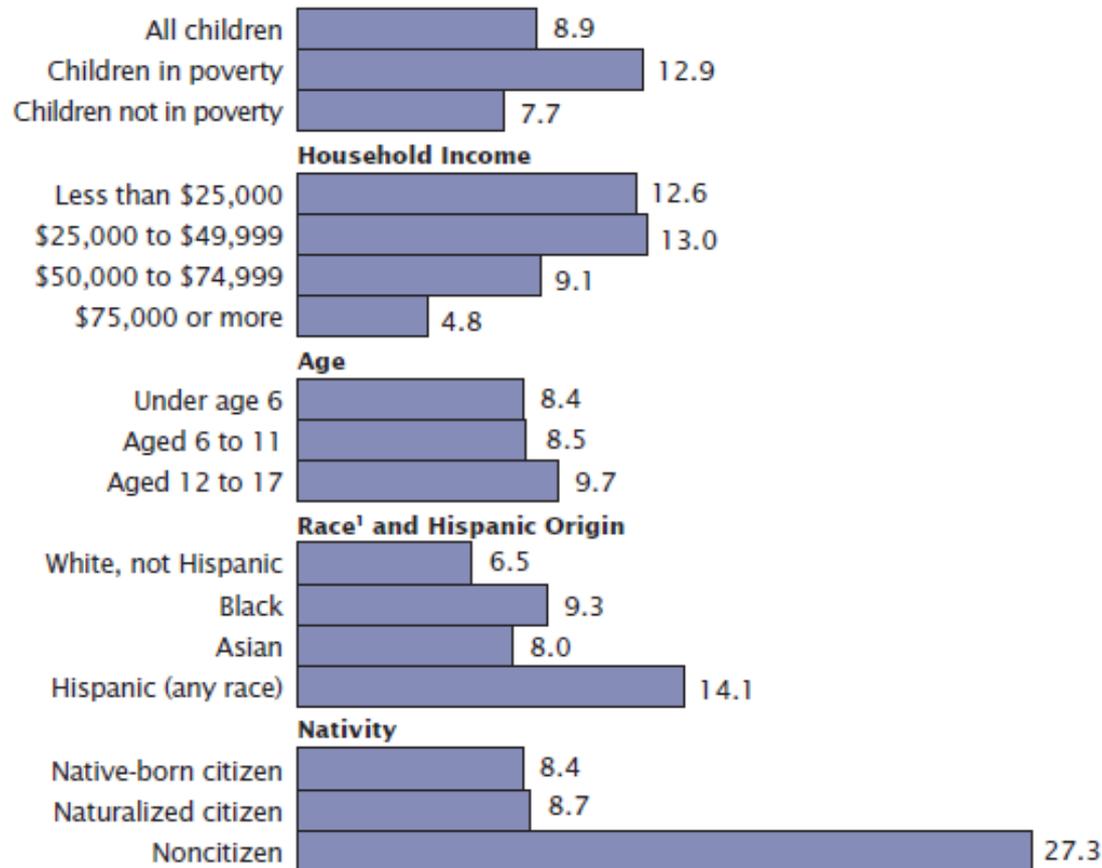
Percent Uninsured by Age Group



Since the implementation of this policy change, the trend in health care coverage for the 19- to 25-year-old age group has seen a significant shift, while the trend for 26- to 34-year-olds has remained relatively stable.

Uninsured Children by Poverty Status, Household Income, Age, Race and Hispanic Origin, and Nativity: 2012

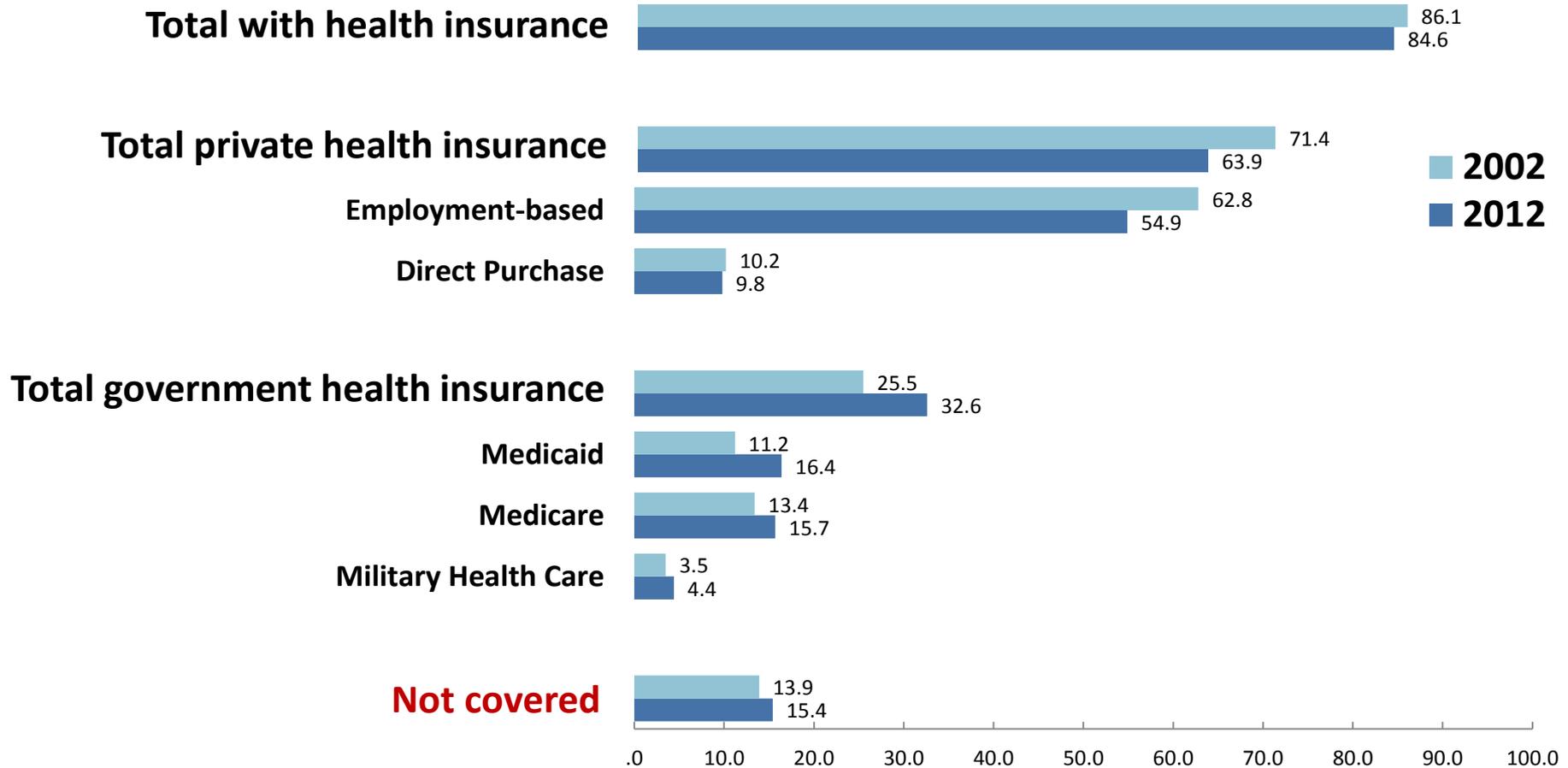
(In percent)



¹ Federal surveys give respondents the option of reporting more than one race. This figure shows data using the race-alone concept. For example, Asian refers to people who reported Asian and no other race. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see <www.census.gov/prod/techdoc/cps/cpsmar13.pdf>.

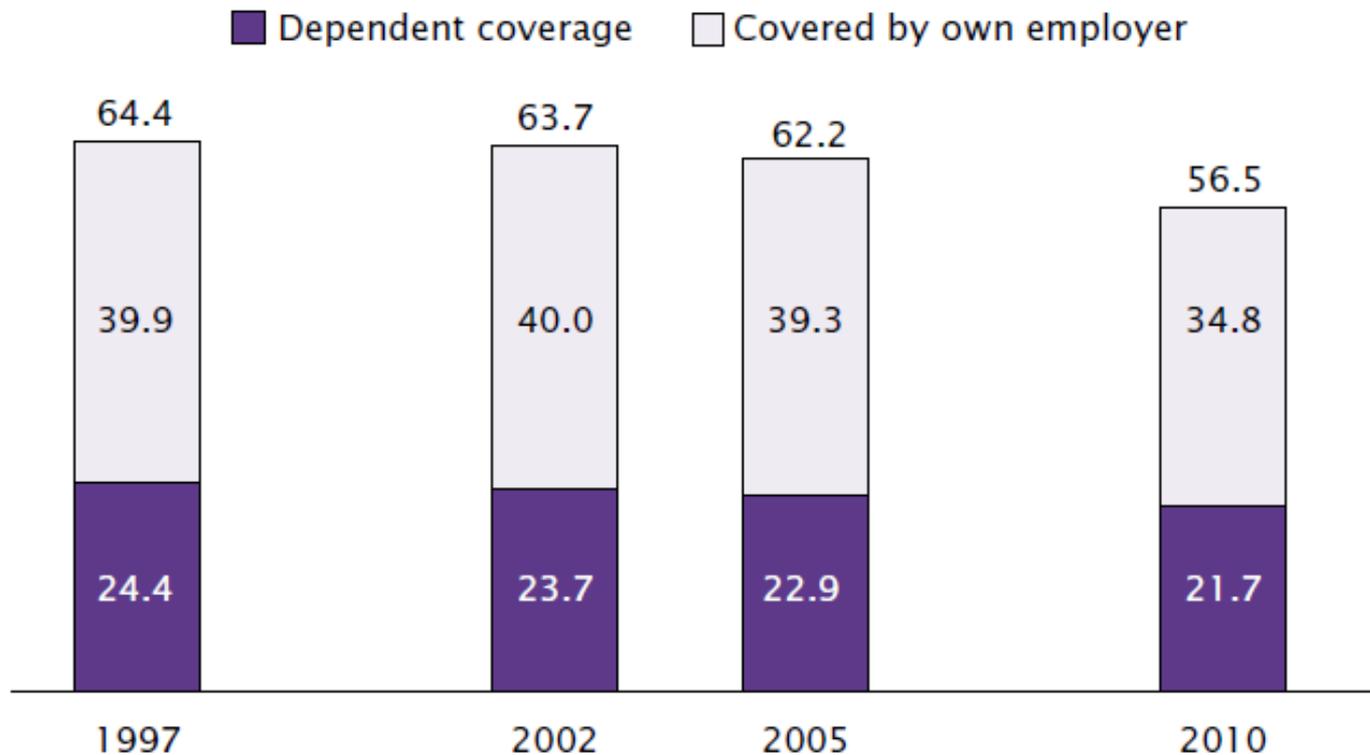
Source: U.S. Census Bureau, Current Population Survey, 2013 Annual Social and Economic Supplement.

Where do people get health insurance coverage?



Employment-Based Health Insurance Rate, by Type of Coverage: 1997, 2002, 2005, and 2010

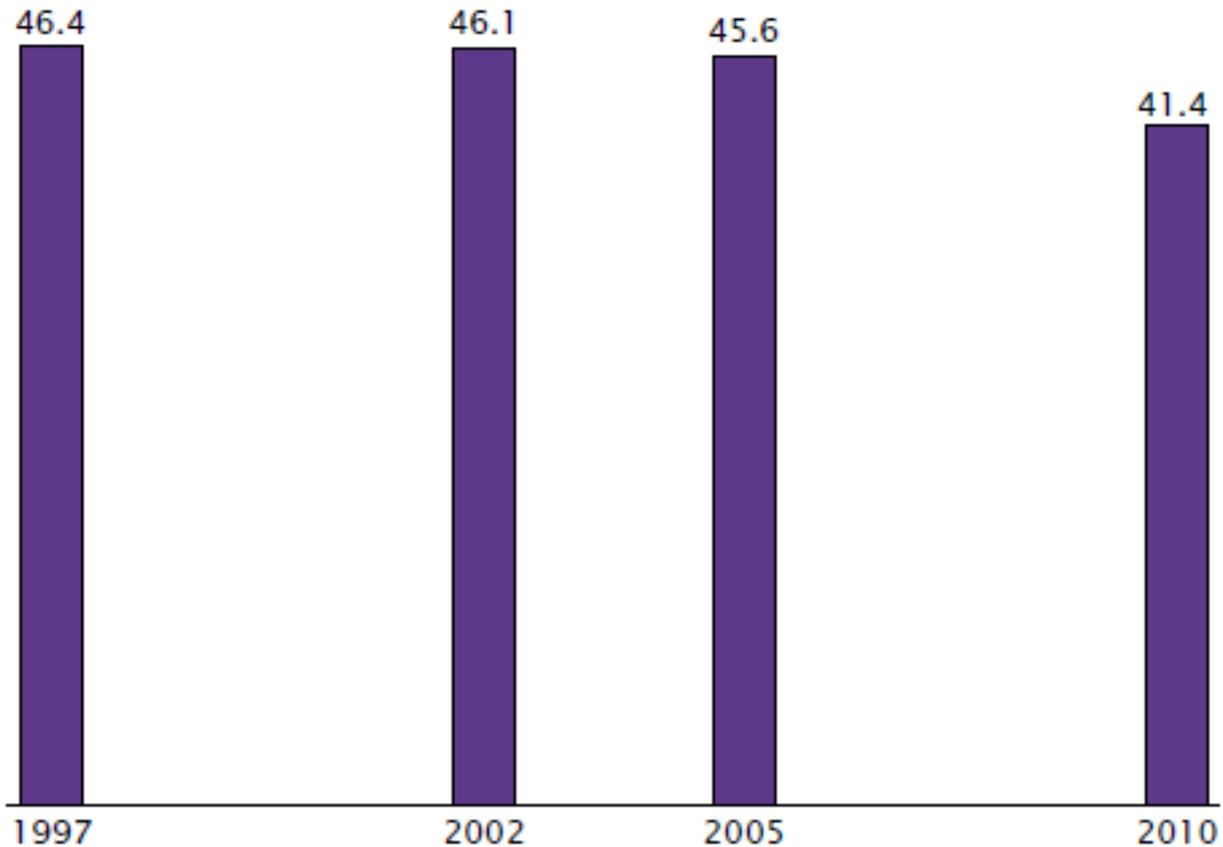
(In percent. All people aged 15 and over)



Source: U.S. Census Bureau, Survey of Income and Program Participation (1996, 2001, 2004, and 2008 Panels).

Percentage of the 15 and Older Population Working for an Employer Which Offered Health Insurance: 1997, 2002, 2005, and 2010

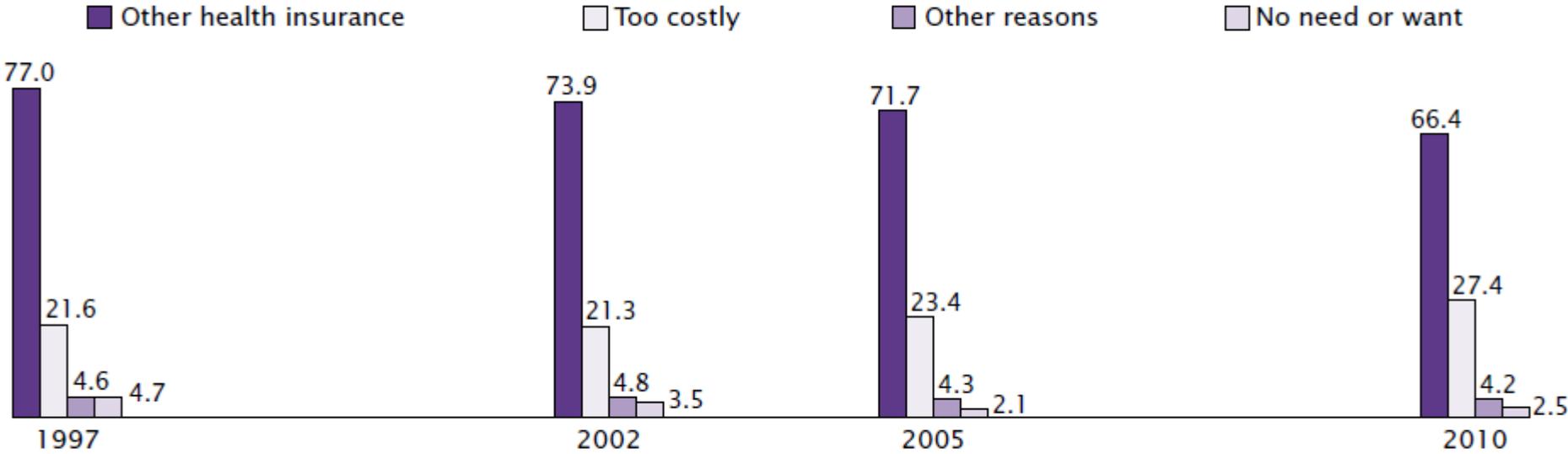
(In percent)



Source: U.S. Census Bureau, Survey of Income and Program Participation (1996, 2001, 2004, and 2008 Panels).

Most Common Reasons for Nonparticipation by Workers Who Chose Not to Participate in Jobs With Employer-Offered Health Insurance: 1997, 2002, 2005, and 2010

(In percent)

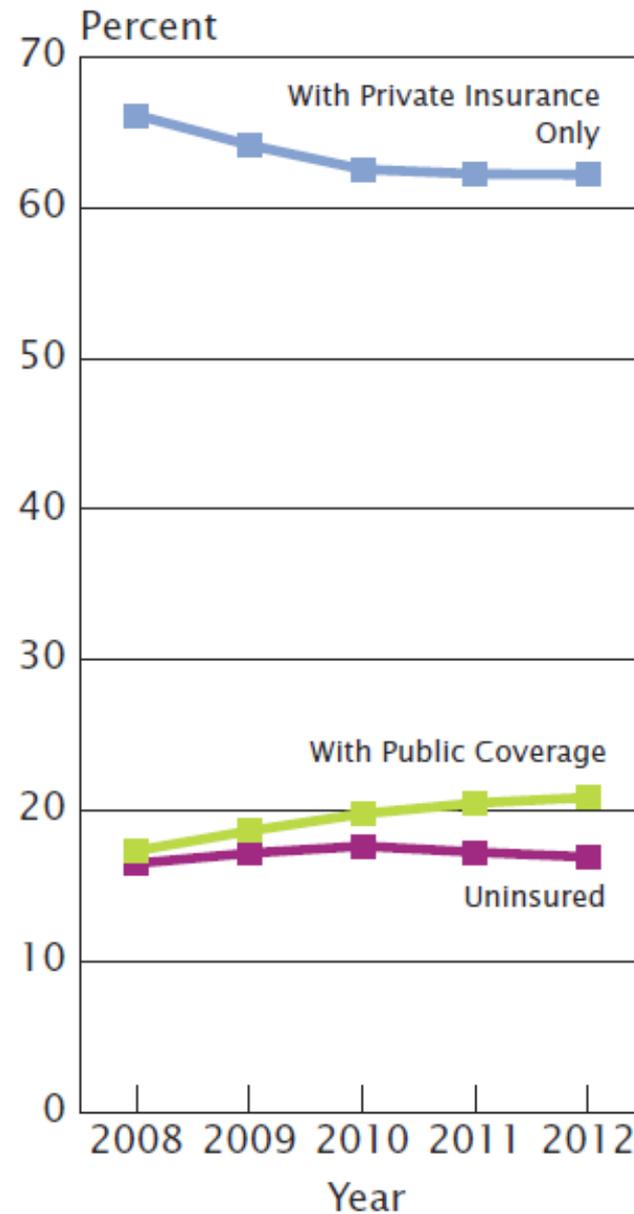


Notes: "Other reasons" category is composed of write-ins. Categories do not sum to 100 percent since respondents may select more than one category.

Source: U.S. Census Bureau, Survey of Income and Program Participation (1996, 2001, 2004, and 2008 Panels).

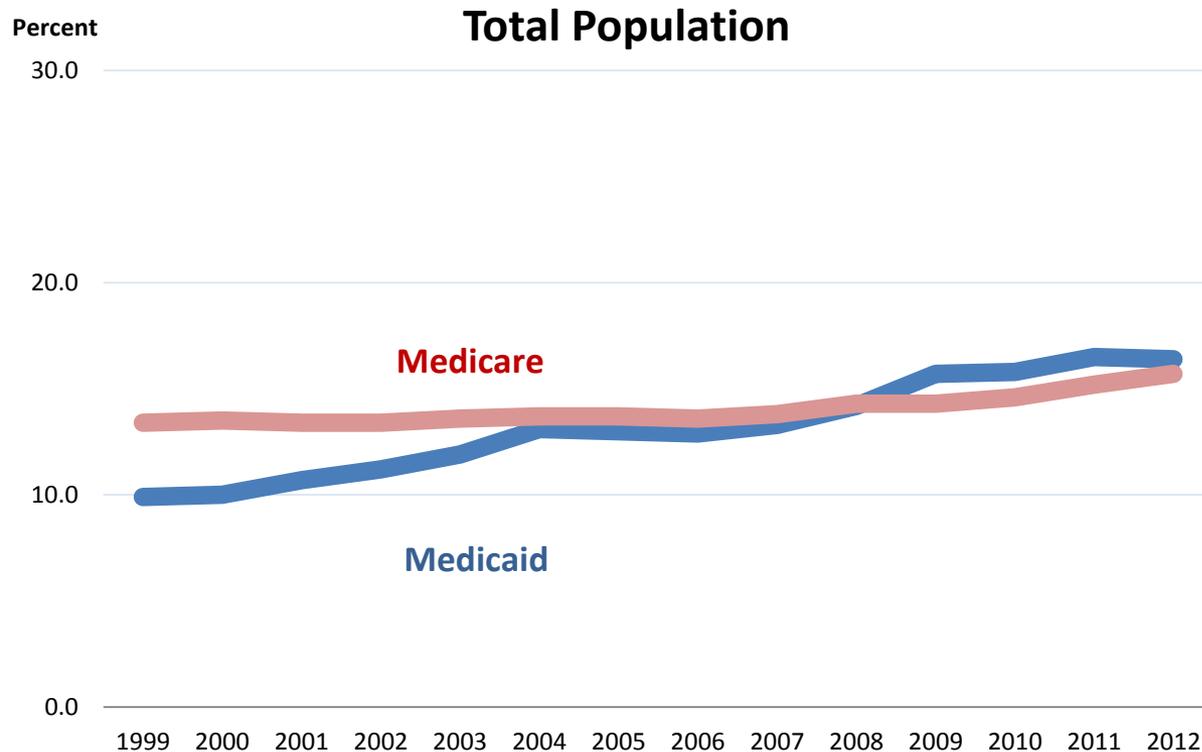
Coverage by Type of Health Insurance: 2008 to 2012

(Civilian noninstitutionalized population under age 65)



Source: U.S. Census Bureau 2008, 2009, 2010, 2011, and 2012 1-year American Community Surveys.

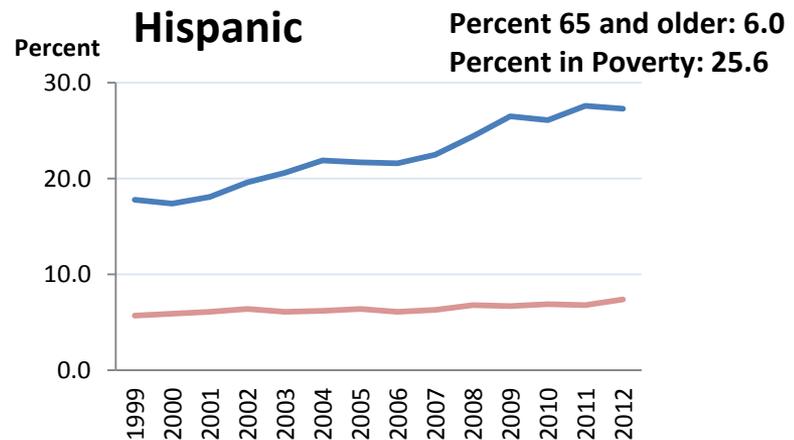
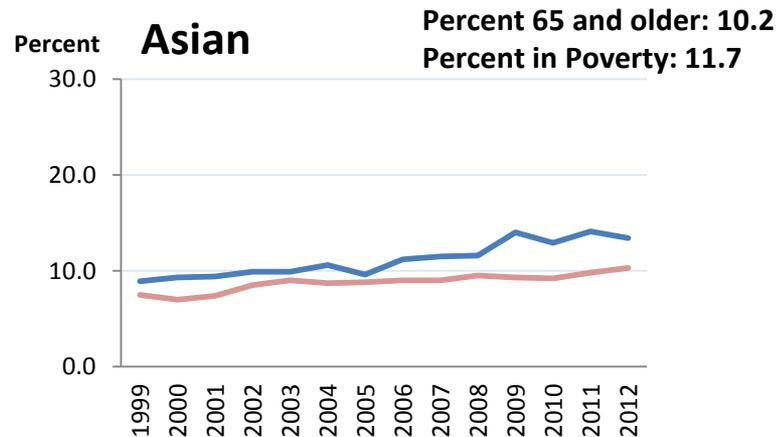
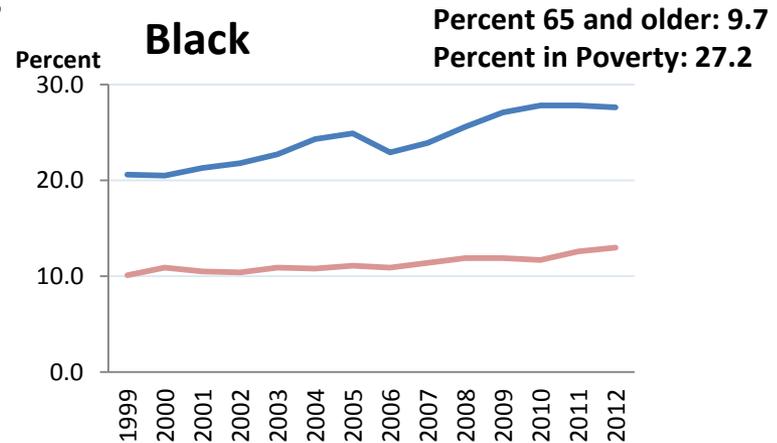
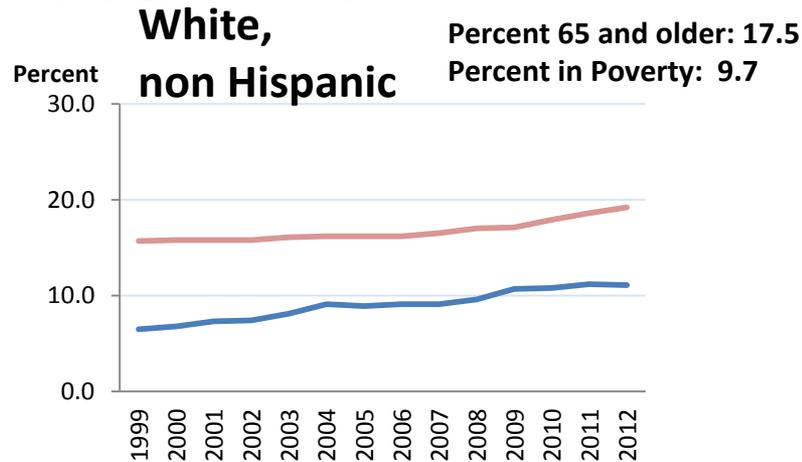
Government Health Insurance Program Participation: 1999 to 2012



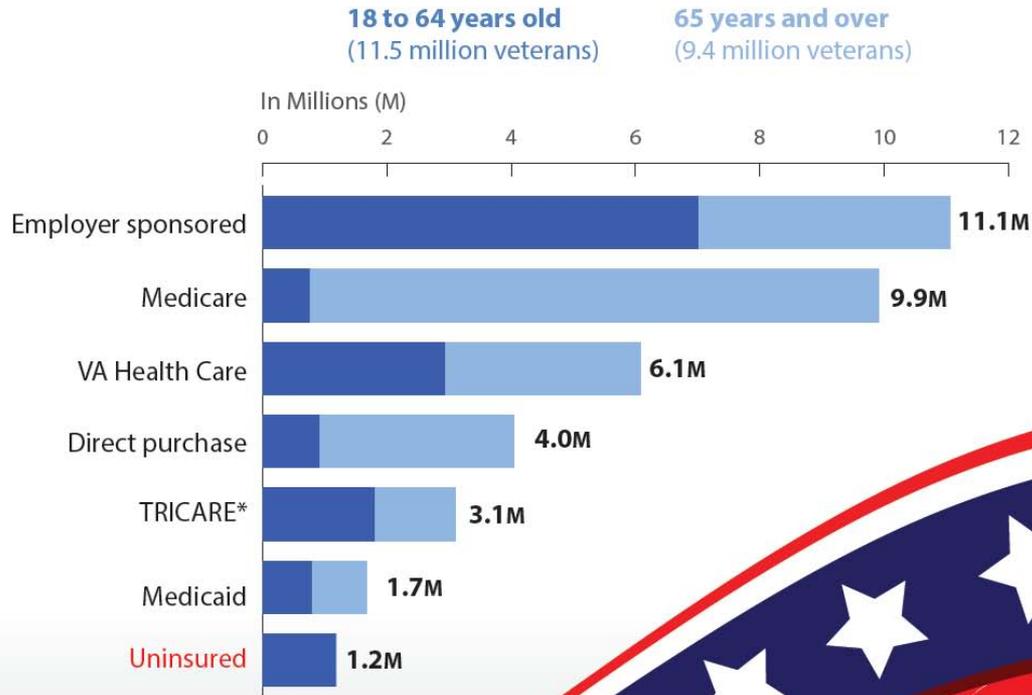
Source: U.S. Census Bureau, Current Population Survey, ASEC, 2000 to 2013.

Government Health Insurance Program Participation, by Race and Hispanic Origin: 1999 to 2012

— = Medicaid
— = Medicare



Where Do Veterans Get Health Insurance Coverage?



Categories are not mutually exclusive; about 1 in 4 veterans under age 65 has multiple health care coverage types, while 4 out of 5 veterans 65 years and older have more than one type.

*TRICARE® is the health care program serving uniformed service members, retirees and their families worldwide.

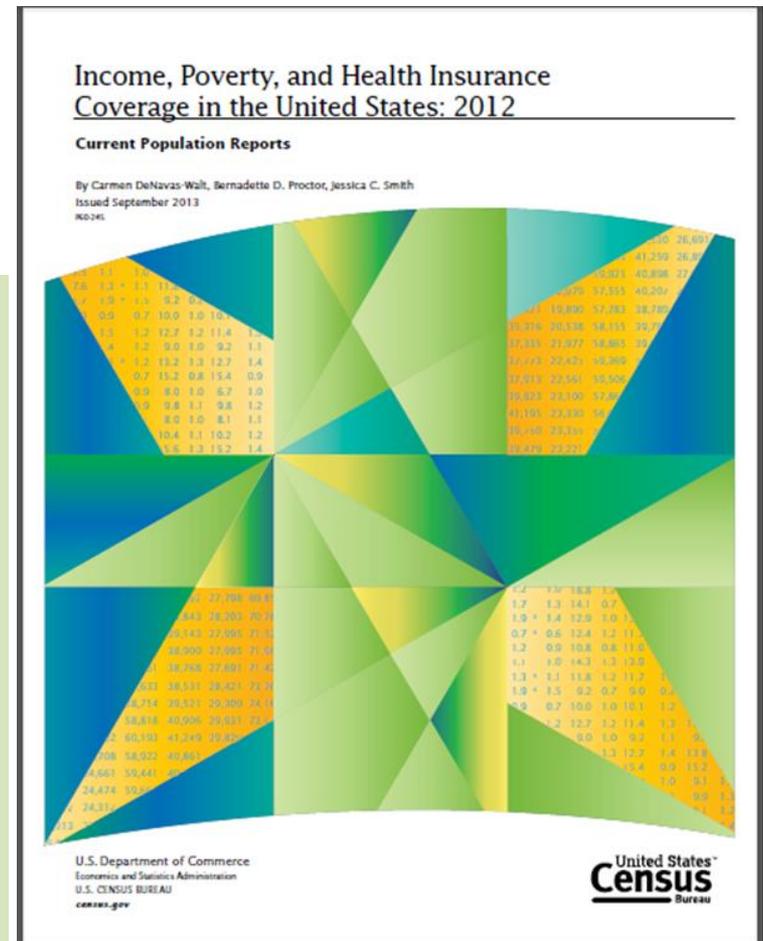
How do we know this?

Current Population Survey Annual Social and Economic Supplement

Purpose:

to obtain a measure of health insurance coverage and non-cash benefits that matches calendar year income

- Official Poverty Rate
- Detailed income sources and amounts
- Previous calendar year
- Health insurance and type
- Medical Out-of-Pocket expenses
- Health Status
- Labor force detail
- Household/family relationships (parent pointers)
- Two year averages for states
- Historical time series , first collected for 1987



Health Insurance Question Changes in the CPS ASEC

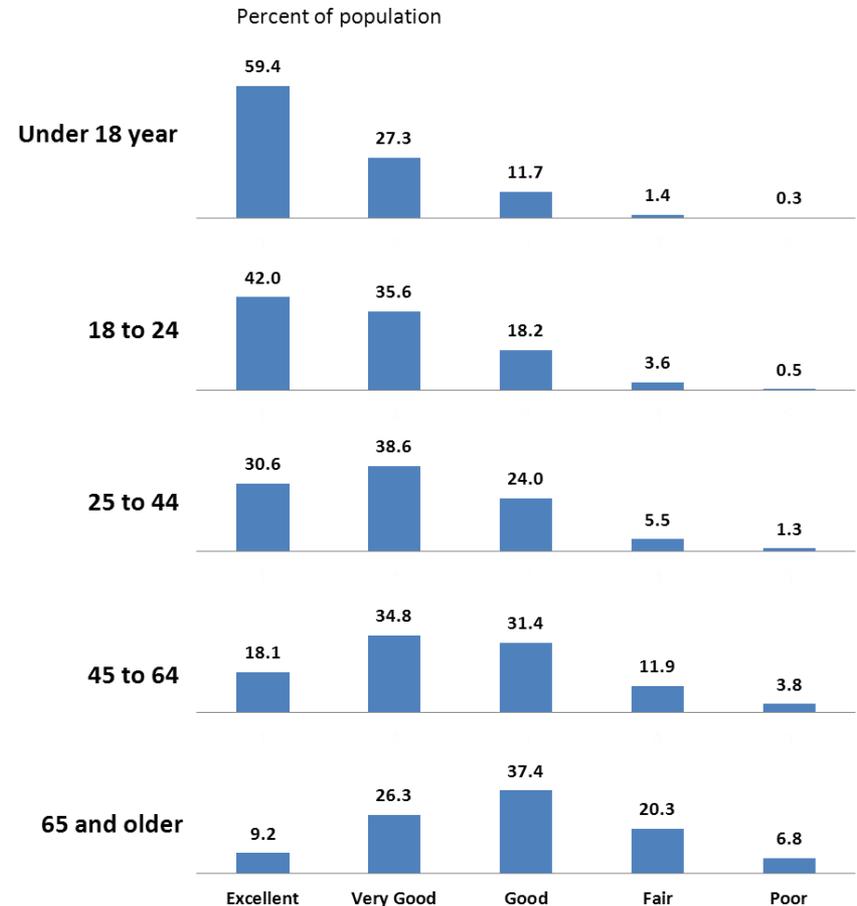
March 2013 CPS Content Test

- **Redesign of health insurance coverage types**
 - Improve all year coverage measure
 - Add point-in-time coverage measure
- **New questions to measure Exchange participation**
 - Non employer based
 - Employer based
- **New questions on employer offered health insurance coverage**

Survey of Income and Program Participation

- Cross-sectional and longitudinal
- Transitions, churning
- Core and Topical Module questions
- Focus on low-income
- 3, 4, and 5 year panels, since 1984
- Follows people when they move
- National level primarily, state
- Current panel started 2008
- Re-designed SIPP 2014

Health Status by Age: 2010



Source: Survey of Income and Program Participation, 2010

American Community Survey

- Ongoing survey provides reliable and timely demographic, social, economic, and housing data every year
- Sample size of 3.4 million households annually, 295,000 monthly
- Information from the survey helps determine distribution of more than \$400 billion in federal and state funds each year
- Health insurance question added in 2008

16 Is this person **CURRENTLY** covered by any of the following types of health insurance or health coverage plans? Mark "Yes" or "No" for EACH type of coverage in items a – h.

	Yes	No
a. Insurance through a current or former employer or union (of this person or another family member)	<input type="checkbox"/>	<input type="checkbox"/>
b. Insurance purchased directly from an insurance company (by this person or another family member)	<input type="checkbox"/>	<input type="checkbox"/>
c. Medicare, for people 65 and older, or people with certain disabilities	<input type="checkbox"/>	<input type="checkbox"/>
d. Medicaid, Medical Assistance, or any kind of government-assistance plan for those with low incomes or a disability	<input type="checkbox"/>	<input type="checkbox"/>
e. TRICARE or other military health care	<input type="checkbox"/>	<input type="checkbox"/>
f. VA (including those who have ever used or enrolled for VA health care)	<input type="checkbox"/>	<input type="checkbox"/>
g. Indian Health Service	<input type="checkbox"/>	<input type="checkbox"/>
h. Any other type of health insurance or health coverage plan – <i>Specify</i>	<input type="checkbox"/>	<input type="checkbox"/>

ACS Subjects

and

Data Products



Population

Age
Ancestry
Citizenship
Disability
Education
Fertility
Field of Degree
Food stamps/SNAP
Grandparents as caregivers
Health insurance
Hispanic origin
Income
Industry, occupation, and class of worker
Labor force status
Language
Marital history and status
Migration
Period of military service
Place of birth
Place of work and journey to work
Race
Relationship to householder (e.g., spouse)
Residence 1 year ago
Sex
Undergraduate field of degree
Veteran status
Work status last year
Year of naturalization



Housing

Bedrooms
Computer and Internet use
Farm residence
House heating fuel
Value of housing units
Kitchen facilities
Plumbing facilities
Rent
Rooms
Selected monthly owner costs
Telephone service available
Tenure (owner/renter)
Units in structure
Vehicles available
Year moved into unit
Year structure built



Key ACS Data Products

Data profiles

Provide broad social, economic, housing, and demographic profiles.

Comparison Profiles

Similar to data profiles but show data side-by-side from the 5 most recent years of the ACS.

Selected population profiles

Provide broad social, economic, and housing profiles for a large number of race, ethnic, ancestry, and country/region of birth groups.

Ranking tables

Provide state rankings of estimates across 86 key variables.

Subject tables

Similar to data profiles but include more detailed ACS data, classified by subject.

Detailed tables

Provide access to the most detailed ACS data and cross tabulations of ACS variables.

Geographic comparison tables

Compare geographic areas other than states (e.g., counties or congressional districts) for key variables.

Summary files

Provide access to the detailed tables through a series of comma-delimited text files on the Census Bureau's FTP site www2.census.gov.

Public Use Microdata Sample files

Provide access to ACS microdata for data users with SAS and SPSS software experience.

Geography of ACS

Table 3. Major Geographic Areas and Type of ACS Estimates Received

Type of geographic area	Total number of areas	Percent of total areas receiving . . .		
		1-year, 3-year, & 5-year estimates	3-year & 5-year estimates only	5-year estimates only
States and District of Columbia	51	100.0	0.0	0.0
Congressional districts	435	100.0	0.0	0.0
Public Use Microdata Areas [*]	2,071	99.9	0.1	0.0
Metropolitan statistical areas	363	99.4	0.6	0.0
Micropolitan statistical areas	576	24.3	71.2	4.5
Counties and county equivalents	3,141	25.0	32.8	42.2
Urban areas	3,607	10.4	12.9	76.7
School districts (elementary, secondary, and unified)	14,120	6.6	17.0	76.4
American Indian areas, Alaska Native areas, and Hawaiian homelands	607	2.5	3.5	94.1
Places (cities, towns, and census designated places)	25,081	2.0	6.2	91.8
Townships and villages (minor civil divisions)	21,171	0.9	3.8	95.3
ZIP Code tabulation areas	32,154	0.0	0.0	100.0
Census tracts	65,442	0.0	0.0	100.0
Census block groups	208,801	0.0	0.0	100.0



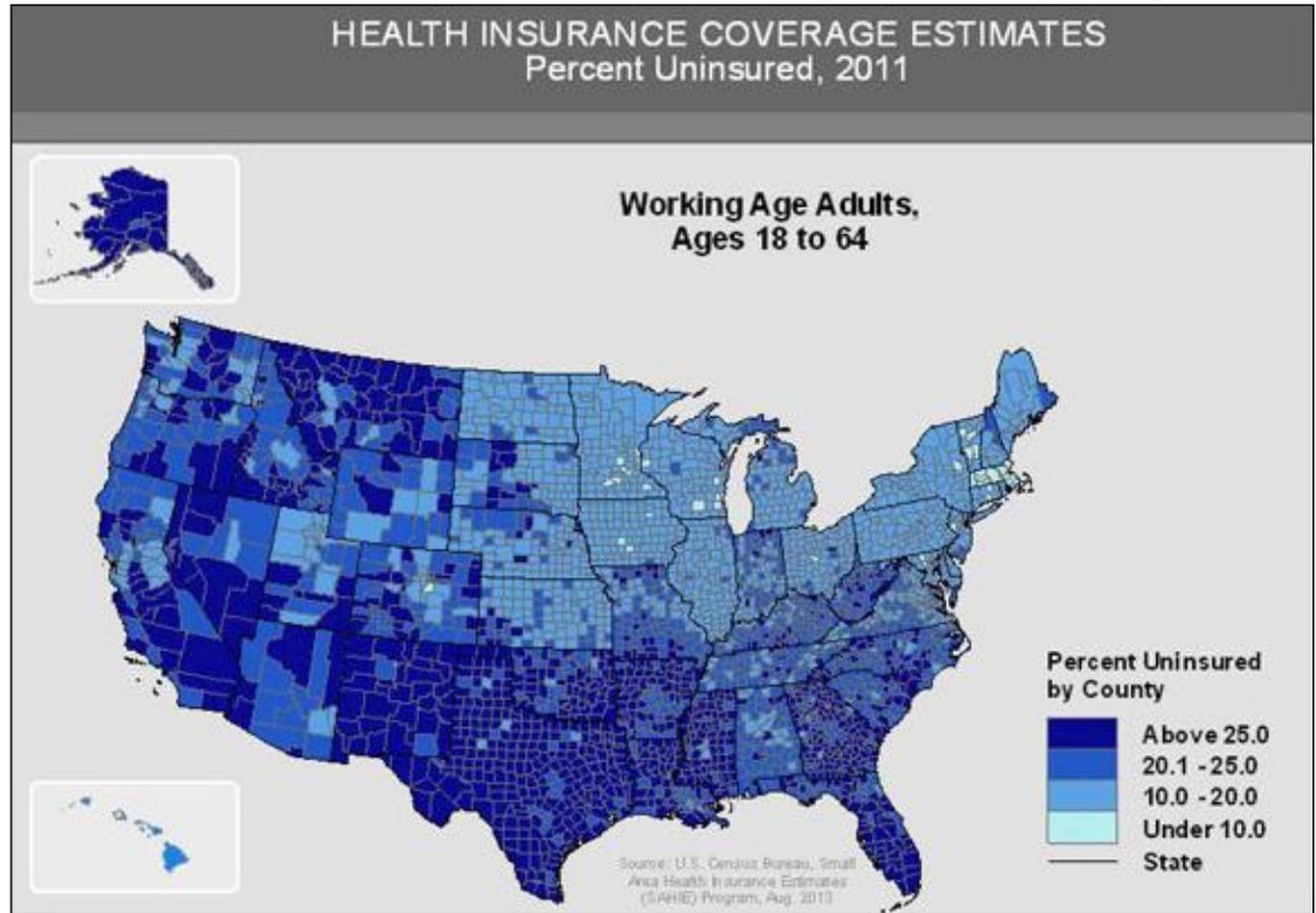
Coming December 17, 2013



Health Insurance statistics
for **All Geographies** in the
ACS 5-year file

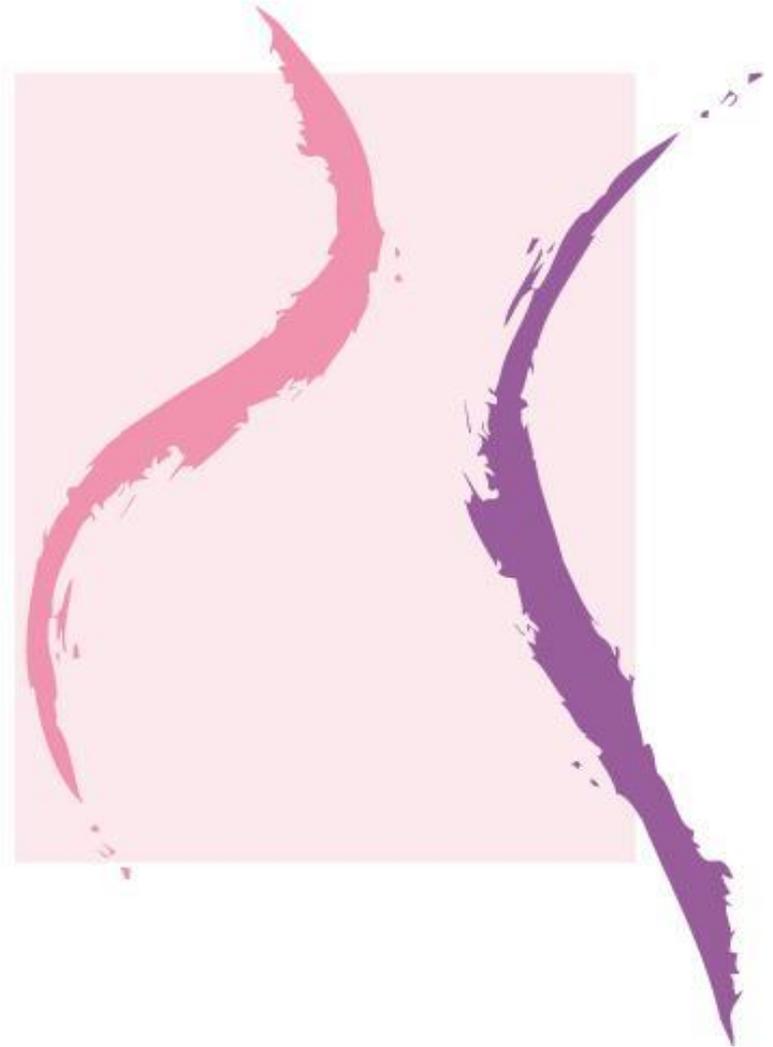
Case Study: Small Area Health Insurance Estimates (SAHIE)

Only source of single-year estimates of health insurance coverage for every county in the U.S.



Motivation for SAHIE

National Breast and Cervical Cancer Early Detection Program



How many uninsured, low-income women are eligible for these services in each county?

Current Data Sources Used

Available through the Census Bureau:

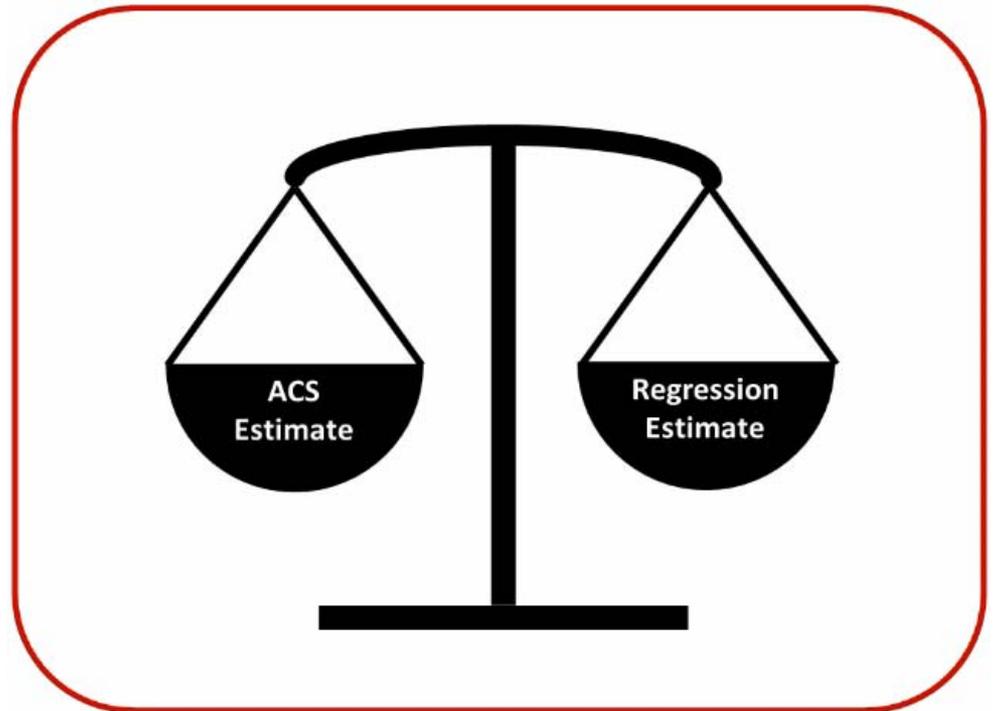
- The American Community Survey;
- Demographic population estimates;
- County Business Patterns;
- Census 2010

Available through other agencies:

- Aggregated federal tax returns (IRS);
- Supplemental Nutrition Assistance Program (SNAP) (FNS);
- Medicaid (CMS); and
- Children's Health Insurance Program (CHIP) participation records (CMS)

Model Overview

- Fay-Herriot method combining ACS survey estimates with ACS regression estimates
- Hierarchical Bayesian adaptation
- Two part model:
 - 1) # in each income and demographic breakout
 - 2) proportion insured in each income and demographic breakout
- Two parts multiplied to form final estimate of # insured/uninsured
- Adjustments to sum to ACS national estimates for key concepts

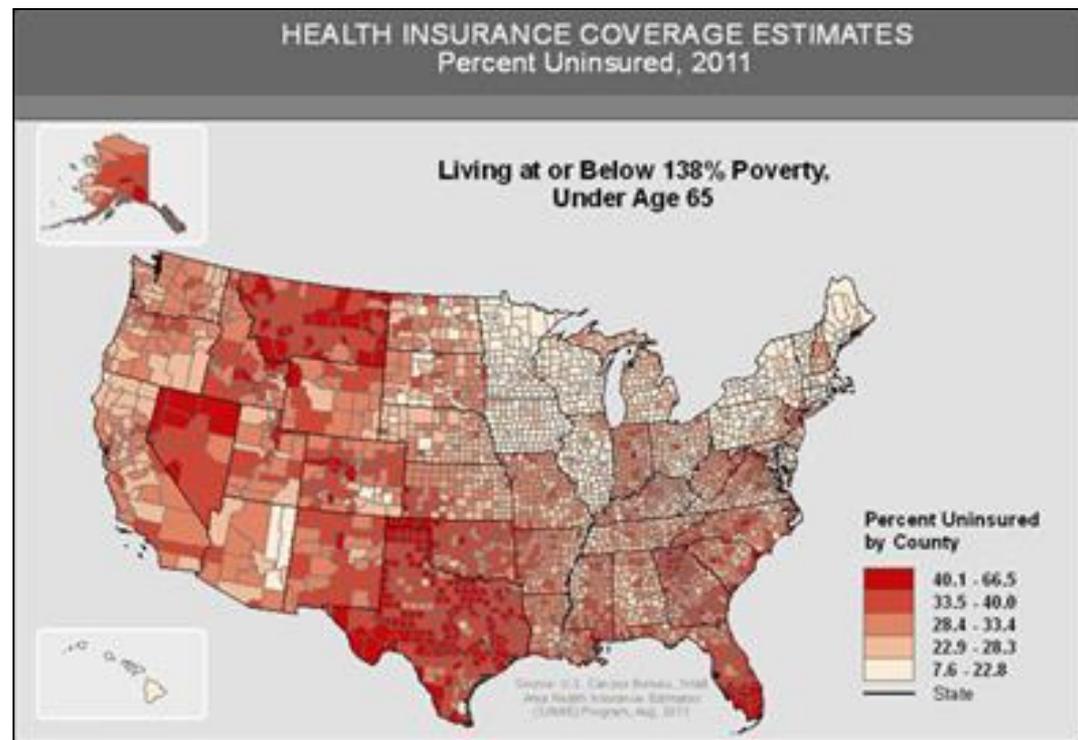


Small Geography by Insured/Not insured

Small Area Health Insurance Estimates (SAHIE)

For States and Counties:

- Age groups: 0-64, 18-64, 40-64, 50-64
- Sex
- Race (states only):
 - White alone (non-Hispanic),
 - Black alone (non-Hispanic),
 - Hispanic (any race)
- Income:
 - less than or equal to: 138, 200, 250, 400 percent of poverty threshold
- For Children (0-18):
 - less than or equal to: 138, 200, 250, 400 percent of poverty threshold



SAHIE Interactive Tool

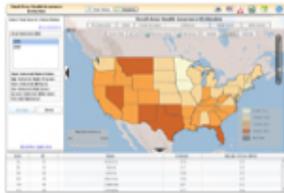
Small Area Health Insurance Estimates (SAHIE)

[Main](#)[About SAHIE](#)[Data](#)[Methodology](#)[Publications](#)[Related Sites](#)[Contact Us](#)

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Interactive Data Visualization and Mapping Tool



Upcoming Releases

The 2012 SAHIE release is planned for March 2014.

Model-based Small Area Health Insurance Estimates (SAHIE) for Counties and States

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.

Latest Release

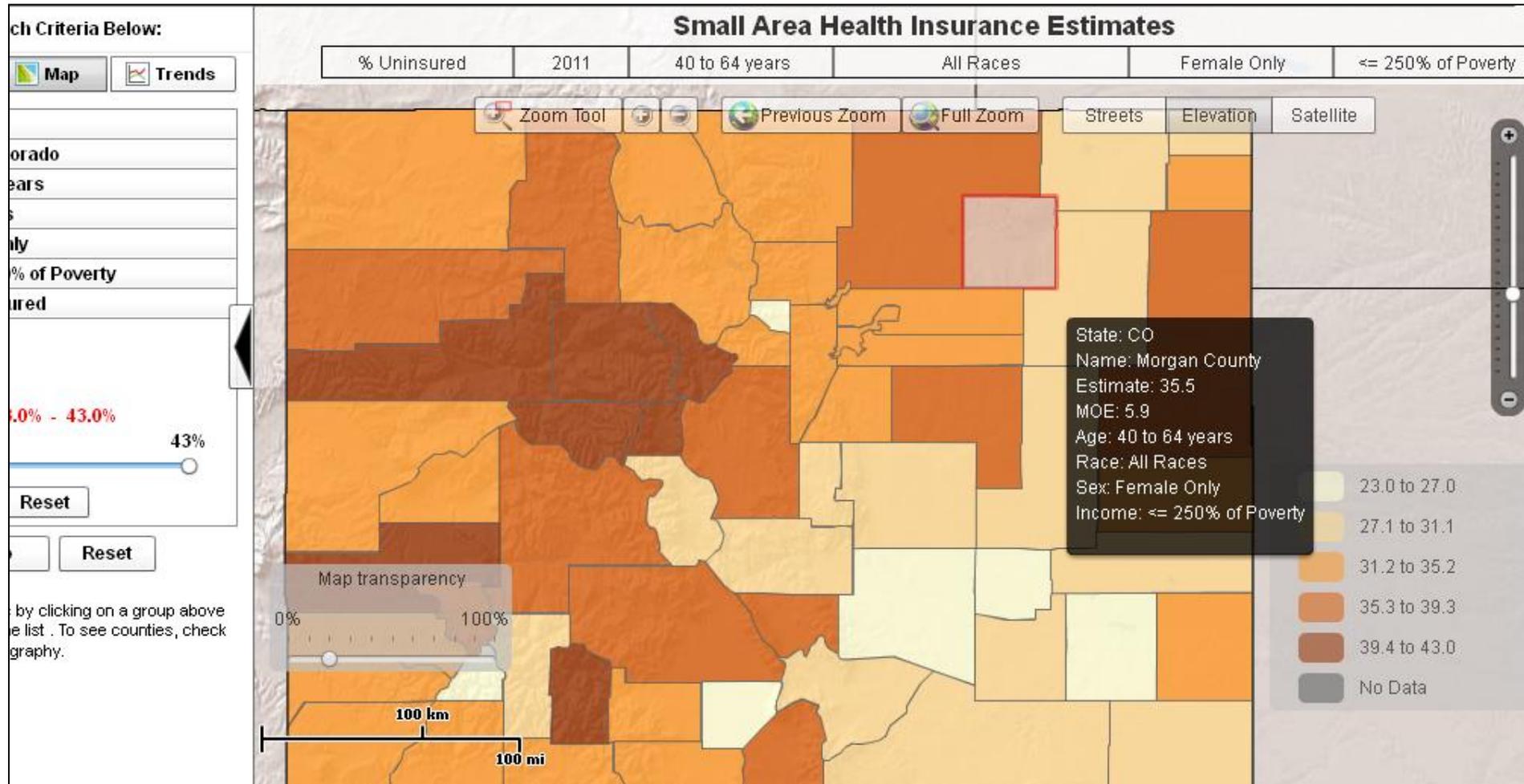
The 2011 County and State Health Insurance Estimates by Demographic and Income Characteristics were released in August 2013.

- [2011 SAHIE Highlights](#) [PDF - 8M]
- [Health Insurance Data](#)
- [Methodology](#)
- [Interactive Data Visualization and Mapping Tool](#)

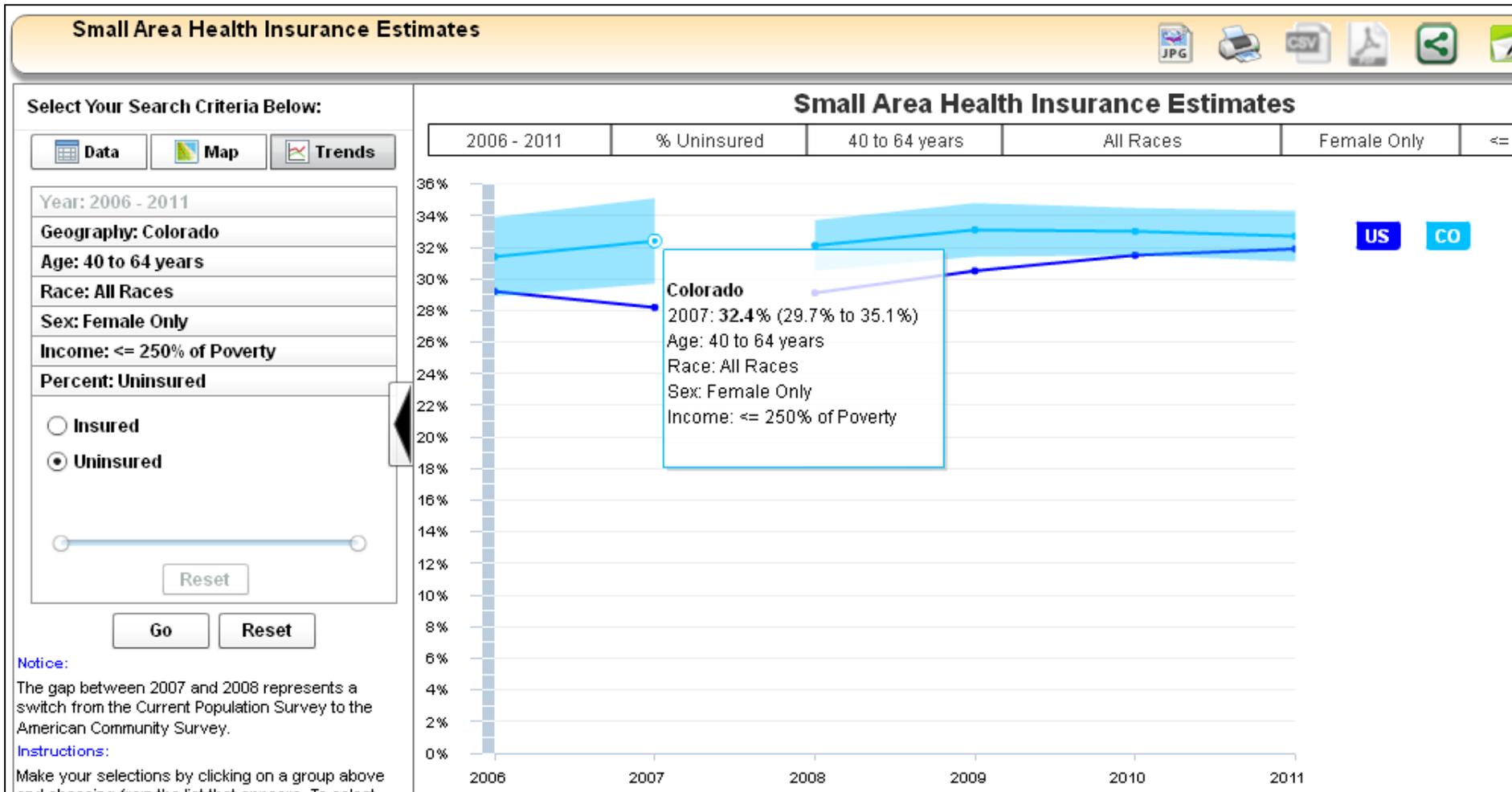
SAHIE Interactive Tool: Data Table

Small Area Health Insurance Estimates													
Select Your Search Criteria Below:			Year	ID	Name	Demographic Group		Uninsured				Insured	
						Number	MOE	Number	MOE	%	%MOE	Number	MOE
<input type="button" value="Data"/>	<input type="button" value="Map"/>	<input type="button" value="Trends"/>	2011	08079	Mineral County	49	6	20	4	40.6	7.4	29	5
Year: 2011			2011	08053	Hinsdale Cour	61	7	19	4	30.8	6.3	43	6
Geography: Colorado			2011	08111	San Juan Cou	61	6	16	4	26.3	6.1	45	6
Age: 40 to 64 years			2011	08061	Kiowa County,	92	10	26	6	28.4	5.9	66	9
Race: All Races			2011	08057	Jackson Coun	112	10	36	8	32.0	6.5	76	10
Sex: Female Only			2011	08017	Cheyenne Cou	116	12	40	9	34.9	6.5	75	11
Income: <= 250% of Poverty			2011	08033	Dolores Count	147	14	50	11	34.1	6.6	97	14
Percent: Uninsured			2011	08115	Sedgwick Cou	173	16	53	12	30.6	6.1	120	16
<input type="radio"/> Insured			2011	08095	Phillips Count	274	26	95	19	34.6	6.3	180	24
<input checked="" type="radio"/> Uninsured			2011	08103	Rio Blanco Co	283	30	100	21	35.5	6.2	182	27
23% <input type="range" value="23%"/> 43%			2011	08091	Ouray County,	304	32	109	24	35.8	6.8	195	29
<input type="button" value="Reset"/>			2011	08047	Gilpin County,	304	35	72	18	23.8	5.4	232	31
<input type="button" value="Go"/> <input type="button" value="Reset"/>			2011	08073	Lincoln County	309	27	93	20	30.3	6.0	215	27
Instructions:			2011	08009	Baca County, C	324	25	98	21	30.3	6.2	226	27
Make your selections by clicking on a group above and choosing from the list that appears. To select multiple items, hold down shift or control (Ctrl) while clicking.			2011	08121	Washington C	341	29	106	23	31.0	6.1	235	29
			2011	08025	Crowley Count	348	24	81	19	23.4	5.3	266	27
			2011	08027	Custer County	361	39	131	29	36.3	7.0	230	35
			2011	08011	Bent County, C	369	29	93	21	25.3	5.5	276	30

SAHIE Interactive Tool: Map



SAHIE Interactive Tool: Trends



2011 SAHIE Release

Media Outlet Summary Report

On August 29, 2013, the Small Area Health Insurance Estimates (SAHIE) program released 2011 health insurance coverage statistics for counties and states. Days after the release, 2011 SAHIE estimates received national, state, and local media attention, which was geographically representative of the entire United States. This report presents the media coverage received following the release from August 29-September 10, 2013, which totaled over 100 news articles.

National Media Highlights!

The Associated Press, Washington Post (GovBeat and Wonkblog), Slate (Money Box Blog), New York Times (Editorial), Wall Street Journal, Bloomberg Business Week, Hispanic Business, Becker's Hospital Review, The Huffington Post, Think Progress, Insurance Journal, Zane Health Benefits Blog, Business Insurance, Healthcare Finance News, Kaiser Health News, Georgetown University Health Policy Institute, Financial Advisor Magazine, MedCity News

Western Newspapers

*The Sacramento Bee (CA)
Salt Lake Tribune (UT)
The Seattle Times (WA)
The Spokesman-Review (WA)
California Health Line (CA)
Phoenix Business Journal
The Argus Observer (OR)
San Francisco Examiner (CA)*

Midwestern Newspapers

*TribTown (IN)
The Republic (IN)
Kansas City Star (MO)
St. Louis Post Dispatch (MO)
The Wichita Eagle (KS)
TV10 Central Ohio (OH)
Cleveland.com (OH)
Journal Sentinel (WI)
Post Bulletin (MN)
Globe Gazette (IA)
Green Bay Gazette (WI)
Charlotte Observer (IA)
Des Moines Register (IA)
The Hays Daily News (KS)
Journal Courier (IL)
KRCU-Local NPR (MO)
Belle Creek Enquirer (MI)
Lansing State Journal (MI)*

Northeastern Newspapers

*The Star Ledger (NJ)
WMAC NE Public Radio (NY)
News Works (NJ)*

Southwestern Newspapers

*Today's News Herald (AZ)
Arizona Capitol Times (AZ)
Tucson Sentinel (AZ)
AZ Central (AZ)
Albuquerque Business First (NM)
Tulsa World (OK)
The Norman Transcript (OK)
The Statesman (TX)
KWTX.com (TX)
Waco Tribune (TX)
D Magazine (TX)
Waco Tribune (TX)
KETK (TX)
The Journal Friendswood (TX)
The Monitor (TX)
Brownsville -The Herald (TX)
CBS-KEYE Dallas (TX)
News Journal -Longview (TX)
Killeen Daily Herald (TX)
KUT News-NPR Austin (TX)
CBS-DFW (TX)*

Southeastern Newspapers

*The Baltimore Sun (MD)
Port City Daily (NC)
News 14 Carolina (NC)
Herald Online (SC)
The Post and Courier (SC)
The Beaufort Gazette (SC)
Island Packet (SC)
Miami Herald (FL)
CBS Miami (FL)
Tallahassee.com (FL)
Tallahassee.com (FL)
NBC-WJGH (FL)
First Coast News (FL)
CBS Tampa Bay (FL)
ABC WWSB (FL)
Ocala Star Banner (FL)
Tampa Tribune (FL)
Florida Today (FL)
Orlando Business Journal (FL)
The South Florida Times (FL)*

Metrics:

- 24 articles linked to the SAHIE website
- 17 articles displayed at least one Highlights Document Figure
- 10 articles linked to the Interactive Tool
- 9 articles linked to the Highlights Document PDF
- 4 articles displayed a JPEG from the Interactive Tool



1,638



854

Upcoming Release Schedule

2010-2012 American Community Survey three-year statistics

Thursday Nov. 14, 2013. The estimates will cover all geographic areas with populations of 20,000 or more. For the first time, comparison profiles will be available for the three-year estimates. These will permit users to compare two non-overlapping three-year periods (2007-2009 versus 2010-2012) and see which changes were statistically significant.

2008-2012 American Community Survey five-year statistics

Tuesday Dec. 17, 2013. These statistics are available for all areas regardless of population size, down to the block group.

2012 Small Area Health Insurance Estimates

March 2014. Single-year estimates of health insurance for all states and counties.



How do I find all this?

CENSUS.GOV

Census.gov > Data and Datasets > Health Insurance Main

Health Insurance

Main | About Health Insurance | Data | Methodology | Publications | Related Sites | Contact Us

Quick Links

- ▣ [Help for CPS ASEC Users](#)
- ▣ [Revised CPS ASEC Health Insurance Data](#)
- ▣ [Help for ACS Users](#)
- ▣ [Help for SIPP Users](#)

Health Insurance Main

The Census Bureau collects health insurance data using three national surveys: the Current Population Survey's Annual Social and Economic Supplement (CPS ASEC), the American Community Survey (ACS) and the Survey of Income and Program Participation (SIPP). The CPS ASEC collects health insurance data on an annual basis at the national and state level geographies. The ACS collects data on an annual basis for the nation, all 50 states, the District of Columbia, Puerto Rico, every congressional district and all counties, places and metropolitan areas with populations of 65,000 or more. The SIPP collects longitudinal health insurance data at the national level of geography. For more information, [visit the About Health Insurance page](#).

Latest Release

Income, Poverty, and Health Insurance Coverage in the United States: 2012 (P80-245)

- [Report](#) » [PDF - 2.9M]
- [Press Release](#) »
- [Tables & Figures](#) »
- [Detailed Tables](#) »
- [Highlights](#) »
- [Historical Tables](#) »
- [Source and Accuracy](#) » [PDF - 1.4M]

Health Status, Health Insurance, and Medical Services Utilization: 2010

- [Report](#) » [PDF - 2.9M]

Health Status, Health Insurance, and Medical Services Utilization ([2001 to 2011 tables](#))

Employment-Based Health Insurance: 2010

- [Report](#) » [PDF - 373k]
- [Supplemental appendix tables](#) » [PDF - 182]

American Community Survey Briefs Series

- [Mitigating the Loss of Private Insurance with Public Coverage for Under-65 Population: 2008 to 2012](#) [PDF - 807k]

[New Estimates for SAHIE](#)

[PDF] or  denotes a file in Adobe's [Portable Document Format](#). To view the file, you will need the [Adobe® Reader®](#)  available free from Adobe. This symbol  indicates a link to a non-government web site. Our linking to these sites does not constitute an endorsement of any products, services or the information found on them. Once you hit policies of the new site.

Measuring America—People, Places, and Our Economy

