Short Title: Health Insurance  
Full Title: Percent of adults aged 18 - 64 without health insurance  

Domain: Population Sensitivities (BRACE) and Meets basic needs of all (HCI)  

HC1 Aspirational goal: Affordable, accessible and high quality health care  

Why is this important to health?  
Insurance coverage is a key determinant of timely access and utilization of health services, which is a fundamental pathway to improved health outcomes. Excessive heat exposure, elevated levels of air pollutants, and extreme weather conditions are expected to cause direct and indirect health impacts, particularly for vulnerable populations with limited or no access to health services. Health insurance enables access to care by connecting people to health care providers and by protecting persons against the high and often unexpected costs of medical care. A lack of health insurance among vulnerable populations that are exposed to the effects of climate changes may lead to greater health impacts. Some of these vulnerable populations include the following: women of Black, Latino, or Asian/Pacific Islander ethnicity; low-income households; undocumented immigrants, particularly children; and displaced populations.1-5

Summary of Evidence for Climate Change and health  
A national systematic review in 2010 found that patients who were uninsured were less likely to receive critical care services than those with insurance.6 Additionally, a systematic review of literature in 2008 found consistent evidence demonstrating that health insurance increases utilization of health care services and improves health.7 A national study demonstrated an increased risk of mortality among the uninsured compared with the insured and estimated 44,789 annual deaths among Americans aged 18 to 54 associated with lack of health insurance.8

Key References:  

What is the Indicator?

Detailed Definition:

- Indicator (percent) = \( \frac{\text{Total civilian noninstitutionalized population aged 18 – 64 without health insurance}}{\text{Total civilian noninstitutionalized population}} \)
- Stratification: 8 race/ethnicity strata (African American, AIAN, Asian, Latino, Multiple, NHOPI, White, total)
- Interpretation: Populations with no health insurance coverage are more vulnerable to the health impacts of climate change

Data Source and Description:

- American Community Survey (ACS) (http://factfinder2.census.gov).
  - Geographies available: census tracts, cities/towns, counties, regions (derived), state

The estimates of individuals without health insurance coverage were obtained from the ACS (S2701 and S0201 tables). Estimates and standard errors of the estimates were obtained from the margin of error provided by the ACS. Population-weighted regional estimates and standard errors were calculated. Regions in the BRACE project are based on county aggregations in the Adaptation Planning Guide Understanding Regional Characteristics.

Limitations

The sample population does not include active-duty military personnel and populations living in correctional facilities and nursing homes. ACS 3-year estimates are published only for areas with a population of 20,000 or more. ACS did not make any changes related to the Affordable Care Act enacted in 2010.