# 2019 TRENDS DATA DOCUMENTATION

As described at www.countyhealthrankings.org/measuring-progress/rankings-measures, we are making trend graphs available this year for 14 measures. In addition, we are making SAS and CSV files of the underlying trend data available for these measures. This document provides the documentation for these measures.  If you have any questions after reading this documentation, please email us at info@countyhealthrankings.org.

## File Layout

| | |
|---|---|
| Fipscode | The FIPS county code is a five-digit Federal Information Processing Standard (FIPS) code (FIPS 6-4) which uniquely identifies counties and county equivalents in the United States |
| State | The two letter abbreviation for each state |
| County | The name of the county |
| Statecode | The two-digit FIPS code fo the state |
| Countycode | The three-digit FIPS code fo the state |
| Yearspan | The years of data this estimate represents |
| Measurename | The name of the measure |
| Measureid | The id of the measure |
| Numerator | The estimate numerator |
| Denominator | The estimate denominator |
| Rawvalue | The value of the estimate |
| Cilow | The lower bound of the confidence interval |
| Cihigh | The upper bound of the confidence interval |
| Chrreleaseyear | The *County Health Rankings* release year the data was included in |
| Differflag | A flag to indicate that the estimate included in this release differs from the data included in the corresponding *County Health Rankings* release |
| Trendbreak | A flag to indicate that the year of the estimate represents the start of a new trend. The data from that point forward should not be used with prior years of data to estimate trends. |

**County Health
Rankings & Roadmaps**

Building a Culture of Health, County by County

A Robert Wood Johnson Foundation program

## Contents

## Premature death

Years of potential life lost before age 75 per 100,000 population (age-adjusted)

### What it is

Premature Death is the years of potential life lost before age 75 (YPLL-75). Every death occurring before the age of 75 contributes to the total number of years of potential life lost. For example, a person dying at age 25 contributes 50 years of life lost, whereas a person who dies at age 65 contributes 10 years of life lost to a county's YPLL. The YPLL measure is presented as a rate per 100,000 population and is age-adjusted to the 2000 US population.

### Data System

National Center for Health Statistics

### What years of data are included in this file?

1997-1999, 1998-2000, 1999-2001, 2000-2002, 2001-2003, 2002-2004, 2003-2005, 2004-2006, 2005-2007, 2006-2008, 2007-2009, 2008-2010, 2009-2011, 2010-2012, 2011-2013, 2012-2014, 2011-2013, 2014-2016, 2015-2017

**Measure ID**
1
**Focus Area**
Health Outcomes | Length of Life | All
**Measure Type**
Ranked
**Rankings Weight (2019)**
50%
**Comparable Across States**
Yes
**Release Years Included**
2010-2019

### Any age or gender specifications?

Only decedents under age 75

### What is the numerator?

The number of years of potential life lost for deaths that occurred amongst people who reside in a county under age 75.

### What is the denominator?

The aggregate population under age 75 for the three years. The year 2010 population estimates are April 1 modified census counts, with bridged-race categories. The 2004 - 2009 population estimates are bridged-race revised intercensal estimates of the July 1 resident population, based on the year 2000 and the year 2010 census counts (released by NCHS on 10/26/2012). The 2011 - 2017 population estimates are bridged-race postcensal estimates of the July 1 resident population.

### Is the measure age-adjusted?

Yes

### Are there any breaks in the trends for this measure?

Yes, the data prior to 2004-2006 use a different method of population estimation, resulting in slightly different denominators

**Website to download data**
https://wonder.cdc.gov/ucd-icd10.html

**Online documentation**
http://wonder.cdc.gov/wonder/help/ucd.html

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## Adult obesity

Percentage of adults that report a BMI of 30 or more

**What it is**
Adult Obesity is the percentage of the adult population (age 20 and older) that reports a body mass index (BMI) greater than or equal to 30 kg/m$^2$.

**Data System**
National Center for Chronic Disease Prevention and Health Promotion, Division of Diabetes Translation

**Data Source**
Behavioral Risk Factor Surveillance System  (BRFSS)

**What years of data are included in this file?**
2004-2016

**Any age or gender specifications?**
Adults ages 20 and older

**What is the numerator?**
Respondents were considered obese if their body mass index was 30 or greater. Body mass index (weight [kg]/height [m]$^2$) was derived from self-report of height and weight.

**What is the denominator?**
All respondents

**Is the measure age-adjusted?**
No

**Are there any breaks in the trends for this measure?**
Starting with the 2010 data, a new BRFSS methodology was introduced that included cell phone users. Data from prior years should only be compared with caution.

**Website to download data**
http://www.cdc.gov/diabetes/atlas/countydata/County_ListofIndicators.html
**Online documentation**
http://www.cdc.gov/diabetes/pdfs/data/calculating-methods-references-county-level-estimates-ranks.pdf

**Measure ID**
11
**Focus Area**
Health Factors | Health Behaviors | Diet and Exercise
**Measure Type**
Ranked
**Rankings Weight (2019)**
5%
**Comparable Across States**
With Caution
**Release Years Included**
2010-2019

# County Health Rankings & Roadmaps
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## Physical inactivity

Percentage of adults aged 20 and over reporting no leisure-time physical activity

### What it is
Physical Inactivity is the percentage of adults aged 20 and over reporting no leisure-time physical activity. Examples of physical activities provided include running, calisthenics, golf, gardening, or walking for exercise.

### Data System
National Center for Chronic Disease Prevention and Health Promotion, Division of Diabetes Translation

### Data Source
Behavioral Risk Factor Surveillance System (BRFSS)

### What years of data are included in this file?
2004-2016

### Any age or gender specifications?
Adults ages 20 and older

**Measure ID**
70
**Focus Area**
Health Factors | Health Behaviors | Diet and Exercise
**Measure Type**
Ranked
**Rankings Weight (2019)**
2%
**Comparable Across States**
With Caution
**Release Years Included**
2010-2019

### What is the numerator?
Respondents were considered to be physically inactive if they answered "no" to the question, "During the past month, other than your regular job, did you participate in any physical activities or exercises such as running, calisthenics, golf, gardening, or walking for exercise?"

### What is the denominator?
All respondents

### Is the measure age-adjusted?
No

### Are there any breaks in the trends for this measure?
Yes, BRFSS methodology changed in 2011 (which is used to construct the 2010 estimates). Data created using this methodology should only be compared to prior years with great caution.

### Website to download data

http://www.cdc.gov/diabetes/atlas/countydata/County_ListofIndicators.html

### Online documentation
http://www.cdc.gov/diabetes/pdfs/data/calculating-methods-references-county-level-estimates-ranks.pdf

## Alcohol-impaired driving deaths

Percentage of driving deaths with alcohol involvement

**What it is**
Alcohol-Impaired Driving Deaths is the percentage of motor vehicle crash deaths with alcohol involvement.

**Data System**
Fatality Analysis Reporting System

**Data Source**
National Highway Traffic Safety Administration

**What years of data are included in this file?**
2005-2017

**Any age or gender specifications?**
No

**What is the numerator?**
The total number of alcohol-impaired motor vehicle crash deaths

**What is the denominator?**
The total number of motor vehicle crash deaths

**Is the measure age-adjusted?**
No

**Are there any breaks in the trends for this measure?**
No

**Website to download data**
ftp://ftp.nhtsa.dot.gov/fars/

**Online documentation**
http://www.nhtsa.gov/FARS

**Measure ID**
134
**Focus Area**
Health Factors | Health Behaviors |
Alcohol and Drug Use
**Measure Type**
Ranked
**Rankings Weight (2019)**
2.5%
**Comparable Across States**
With Caution
**Release Years Included**
2014-2019

## Sexually transmitted infections

Number of newly diagnosed chlamydia cases per 100,000 population

**What it is**
Sexually Transmitted Infections (STI) are measured as the chlamydia incidence (number of new cases reported) per 100,000 population.

**Data System**
National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention

**Data Source**
Reportable diseases from hospitals and clinics

**What years of data are included in this file?**
2007-2016

**Any age or gender specifications?**
No

**What is the numerator?**
Number of reported cases of chlamydia

**What is the denominator?**
Total population, provided by NCHS

**Is the measure age-adjusted?**
No

**Are there any breaks in the trends for this measure?**
No

**Website to download data**

https://gis.cdc.gov/grasp/nchhstpatlas/main.html?value=atlas

**Online documentation**
https://gis.cdc.gov/grasp/nchhstpatlas/main.html?value=atlas (click on technical notes)

**Measure ID**
45
**Focus Area**
Health Factors | Health Behaviors | Sexual Activity
**Measure Type**
Ranked
**Rankings Weight (2019)**
2.5%
**Comparable Across States**
With Caution
**Release Years Included**
2010-2019

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## Uninsured

Percentage of population under age 65 without health insurance

**What it is**
Uninsured is the percentage of the population under age 65 that has no health insurance coverage. The Small Area Health Insurance Estimates uses the American Community Survey (ACS) definition of insured: Is this person CURRENTLY covered by any of the following types of health insurance or health coverage plans: Insurance through a current or former employer or union, insurance purchased directly from an insurance company, Medicare, Medicaid, Medical Assistance, or any kind of government-assistance plan for those with low incomes or a disability, TRICARE or other military health care, Indian Health Services, VA or any other type of health insurance or health coverage plan?

**Measure ID**
85
**Focus Area**
Health Factors | Clinical Care | Access to Care
**Measure Type**
Ranked
**Rankings Weight (2019)**
5%
**Comparable Across States**
Yes
**Release Years Included**
2012-2019

**Data System**
Small Area Health Insurance Estimates

**Data Sources**
Multiple sources including ACS, tax returns, SNAP data, Medicaid, and Census.

**What years of data are included in this file?**
2006-2016

**Any age or gender specifications?**
Under 65 years

**What is the numerator?**
The number of people currently uninsured in the county under the age of 65

**What is the denominator?**
The number of people in the county under age 65

**Is the measure age-adjusted?**
No

**Are there any breaks in the trends for this measure?**
Yes, data prior to 2008 was based primarily on Current Population Survey data, while data from 2008 on was based primarily on ACS data.  Data comparisons should be made carefully.

**Website to download data**

https://www.census.gov/data/datasets/time-series/demo/sahie/estimates-acs.html

**Online documentation**

https://www.census.gov/programs-surveys/sahie/technical-documentation/methodology.html

# Preventable hospital stays

Number of hospital stays for ambulatory-care sensitive conditions per 100,000 Medicare enrollees

**What it is**
Preventable Hospital Stays is the hospital discharge rate for ambulatory care-sensitive conditions per 100,000 fee-for-service Medicare enrollees.

**Data System**
Mapping Medicare Disparities Tool

**Data Source**
Medicare claims data

**What years of data are included in this file?**
2012-2016

**Any age or gender specifications?**
Medicare enrollee

**Measure ID**
5
**Focus Area**
Health Factors | Clinical Care | Quality of Care
**Measure Type**
Ranked
**Rankings Weight (2019)**
5%
**Comparable Across States**
Yes
**Release Years Included**
2019

**What is the numerator?**
The numerator is the number of discharges, for Medicare fee-for-service enrollees ages 18 and older, hospitalized for any of the following reasons: convulsions, chronic obstructive pulmonary disease, bacterial pneumonia, asthma, congestive heart failure, hypertension, angina, cellulitis, diabetes, gastroenteritis, kidney/urinary infection, and dehydration.

**What is the denominator?**
100% of Medicare enrollees with full Part A entitlement and no HMO enrollment during the measurement period.

**Is the measure age-adjusted?**
Yes

**Are there any breaks in the trends for this measure?**
No

**Website to download data**
https://data.cms.gov/mapping-medicare-disparities

**Online documentation**
https://www.cms.gov/About-CMS/Agency-Information/OMH/Downloads/Mapping-Technical-Documentation.pdf

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# Flu vaccinations

Percentage of fee-for-service (FFS) Medicare enrollees that had an annual flu vaccination.

**What it is**
Flu vaccinations is the percentage of fee-for-service Medicare enrollees that had an annual flu vaccination.

**Data System**
Mapping Medicare Disparities Tool

**Data Source**
Medicare claims data

**What years of data are included in this file?**
2012-2016

**Any age or gender specifications?**
Medicare enrollees

**Measure ID**
155
**Focus Area**
Health Factors | Clinical Care | Quality of Care
**Measure Type**
Ranked
**Rankings Weight (2019)**
2.5%
**Comparable Across States**
Yes
**Release Years Included**
2019

**What is the numerator?**
Those who have received the influenza vaccine in the last year. CPT/HCPCS codes are 90630, 90653, 90654, 90655, 90656, 90657, 90660, 90661, 90662, 90672, 90673, 90674, 90685, 90686, 90687, 90688, Q2035, Q2036, Q2037, Q2038. Q2039, G0008.

**What is the denominator?**
Fee-for-service Medicare enrollees

**Is the measure age-adjusted?**
No

**Are there any breaks in the trends for this measure?**
No

**Website to download data**
https://data.cms.gov/mapping-medicare-disparities

**Online documentation**
https://www.cms.gov/About-CMS/Agency-Information/OMH/Downloads/Mapping-Technical-Documentation.pdf

# Mammography screening

Percentage of female Medicare enrollees ages 65-74 that receive mammography screening

**What it is**
Mammography Screening is the percentage of female fee-for-service Medicare enrollees age 65-74 that had at least one mammogram over a two-year period.

**Data System**
Mapping Medicare Disparities Tool

**Data Source**
Medicare claims data

**What years of data are included in this file?**
2012-2016

**Any age or gender specifications?**
Females ages 65-74

**What is the numerator?**
Females ages 65-74 that have had a mammogram in the last year. CPT/HCPCS codes are 77052, 77057, 77063, G0202.

**What is the denominator?**
Medicare women, non-HMO, age 65-74

**Is the measure age-adjusted?**
No

**Are there any breaks in the trends for this measure?**
No

**Website to download data**
https://data.cms.gov/mapping-medicare-disparities

**Online documentation**
https://www.cms.gov/About-CMS/Agency-Information/OMH/Downloads/Mapping-Technical-Documentation.pdf

**Measure ID**
50
**Focus Area**
Health Factors | Clinical Care | Quality of Care
**Measure Type**
Ranked
**Rankings Weight (2019)**
2.5%
**Comparable Across States**
Yes
**Release Years Included**
2019

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# Unemployment

Percentage of population ages 16 and older unemployed but seeking work

**What it is**
Unemployment is the percentage of the civilian labor force, age 16 and older, that is unemployed but seeking work.

**Data System**
Bureau of Labor Statistics

**Data Source**
Current population Survey (CPS), the Current Employment Statistics (CES) survey, and the UI system

**What years of data are included in this file?**
2002-2017

**Any age or gender specifications?**
Age 16 and older

**Measure ID**
23
**Focus Area**
Health Factors | Social & Economic Factors | Employment
**Measure Type**
Ranked
**Rankings Weight (2019)**
10%
**Comparable Across States**
Yes
**Release Years Included**
2010-2019

**What is the numerator?**
The total number of people in the civilian labor force, age 16 and older, that is unemployed but seeking work

**What is the denominator?**
The total number of people in the civilian labor force, age 16 and older.

- Civilian labor force. Included are all persons in the civilian noninstitutional population classified as either employed or unemployed. (See the definitions below).
- Employed persons. These are all persons who, during the reference week (the week including the 12th day of the month), (a) did any work as paid employees, worked in their own business or profession or on their own farm, or worked 15 hours or more as unpaid workers in an enterprise operated by a member of their family, or (b) were not working but who had jobs from which they were temporarily absent because of vacation, illness, bad weather, childcare problems, maternity or paternity leave, labor-management dispute job training, or other family or personal reasons, whether or not they were paid for the time off or were seeking other jobs. Each employed person is counted only once, even if he or she holds more than one job.

**Is the measure age-adjusted?**
No

**Are there any breaks in the trends for this measure?**
No

**Website to download data**
http://www.bls.gov/lau/tables.htm

**Online documentation**
http://www.bls.gov/lau/publications.htm

# Children in poverty

Percentage of children under age 18 in poverty

**What it is**
Children in Poverty is the percentage of children under age 18 living below the Federal Poverty Line (FPL). Poverty status is defined by family; either everyone in the family is in poverty or no one in the family is in poverty. The characteristics of the family used to determine the poverty threshold are: number of people, number of related children under 18, and whether or not the primary householder is over age 65. Family income is then compared to the poverty threshold; if that family's income is below that threshold, the family is in poverty. For more information, please see Poverty Definition and/or Poverty.

**Data System**
Small Area Income and Poverty Estimates

**Data Source**
Single-year county-level observations from the American Community Survey

**What years of data are included in this file?**
2002-2017

**Any age or gender specifications?**
Children under the age of 18

**What is the numerator?**
Number of people under age 18 living in a household whose income is below the poverty level

**What is the denominator?**
Number of people under age 18

**Is the measure age-adjusted?**
No

**Are there any breaks in the trends for this measure?**
Yes, this data from 2005-2014 is based on the American Community Survey, while data from 2002-2004 were derived from the Current Population Survey

**Measure ID**
24
**Focus Area**
Health Factors | Social & Economic Factors | Income
**Measure Type**
Ranked
**Rankings Weight (2019)**
7.5%
**Comparable Across States**
Yes
**Release Years Included**
2010-2019

**Website to download data**

https://www.census.gov/data/datasets/2016/demo/saipe/2016-state-and-county.html

**Online documentation**
https://www2.census.gov/programs-surveys/saipe/technical-documentation/file-layouts/state-county/2016-estimate-layout.txt

# Violent crime

Number of reported violent crime offenses per 100,000 population

**What it is**
Violent Crime is the number of violent crimes reported per 100,000 population. Violent crimes are defined as offenses that involve face-to-face confrontation between the victim and the perpetrator, including homicide, forcible rape, robbery, and aggravated assault.

**Data System**
Uniform Crime Reporting - FBI

**What years of data are included in this file?**
2003-2014,2016

**Any age or gender specifications?**
No

**Measure ID**
43
**Focus Area**
Health Factors | Social & Economic Factors | Community Safety
**Measure Type**
Ranked
**Rankings Weight (2019)**
2.5%
**Comparable Across States**
No
**Release Years Included**
2010-2019

**What is the numerator?**
Total number of violent crimes defined as offenses that involve face-to-face confrontation between the victim and the perpetrator, including homicide, forcible rape, robbery, and aggravated assault.

**What is the denominator?**
Total county population covered by agencies which reported crimes

**Is the measure age-adjusted?**
No

**Are there any breaks in the trends for this measure?**
No

**Website to download data**
https://www.icpsr.umich.edu/icpsrweb/NACJD/studies/36399

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# Daily fine particulate matter

Average daily density of fine particulate matter in micrograms per cubic meter ($PM_{2.5}$)

### What it is
Air Pollution – Particulate Matter is the average daily density of fine particulate matter in micrograms per cubic meter ($PM_{2.5}$) in a county. Fine particulate matter is defined as particles of air pollutants with an aerodynamic diameter less than 2.5 micrometers. These particles can be directly emitted from sources such as forest fires, or they can form when gases emitted from power plants, industries and automobiles react in the air.

### Data System
CDC WONDER Environmental data

### Data Source
NASA Applied Sciences Program/Public Health Program

### What years of data are included in this file?
2002-2013

### Any age or gender specifications?
No

### Are there any breaks in the trends for this measure?
No

### Website to download data

https://ephtracking.cdc.gov/DataExplorer/

**Measure ID**
125
**Focus Area**
Health Factors | Physical Environment | Environmental Quality
**Measure Type**
Ranked
**Rankings Weight (2019)**
2.5%
**Comparable Across States**
Yes
**Release Years Included**
2013-2019

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# Uninsured adults

Percentage of adults under age 65 without health insurance

### What it is
Uninsured Adults is the percentage of the population ages 18 to 65 that has no health insurance coverage in a given county. The Small Area Health Insurance Estimates uses the American Community Survey (ACS) definition of insured: Is this person CURRENTLY covered by any of the following types of health insurance or health coverage plans: Insurance through a current or former employer or union, insurance purchased directly from an insurance company, Medicare, Medicaid, Medical Assistance, or any kind of government-assistance plan for those with low incomes or a disability, TRICARE or other military health care, Indian Health Services, VA or any other type of health insurance or health coverage plan.

**Measure ID**
3
**Focus Area**
Health Factors | Clinical Care | Access to Care
**Measure Type**
Additional
**Rankings Weight (2019)**
NA
**Comparable Across States**
Yes
**Release Years Included**
2010-2018

### Data System
Small Area Health Insurance Estimates

### Data Sources
Multiple sources including ACS, tax returns, SNAP data, Medicaid, and Census.

### What years of data are included in this file?
2006-2016

### Any age or gender specifications?
18 to 65 years

### What is the numerator?
The number of adults currently uninsured in the county under the age of 65

### What is the denominator?
The number of adults in the county under age 65

### Is the measure age-adjusted?
No

### Are there any breaks in the trends for this measure?
Yes, data prior to 2008 was based primarily on Current Population Survey data, while data from 2008 on was based primarily on ACS data.  Data comparisons should be made carefully.

### Website to download data
https://www.census.gov/programs-surveys/sahie/data/datasets.html

**Online documentation**
https://www.census.gov/programs-surveys/sahie/technical-documentation.html

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## Uninsured Children

Percentage of children under age 18 without health insurance

**What it is**

Uninsured Children is the percentage of the population under age 18 that has no health insurance coverage in a given county. The Small Area Health Insurance Estimates uses the American Community Survey (ACS) definition of insured: Is this person CURRENTLY covered by any of the following types of health insurance or health coverage plans: Insurance through a current or former employer or union, insurance purchased directly from an insurance company, Medicare, Medicaid, Medical Assistance, or any kind of government-assistance plan for those with low incomes or a disability, TRICARE or other military health care, Indian Health Services, VA or any other type of health insurance or health coverage plan.

**Measure ID**
122
**Focus Area**
Health Factors | Clinical Care | Access to Care
**Measure Type**
Additional
**Rankings Weight (2019)**
NA
**Comparable Across States**
Yes
**Release Years Included**
2012-2018

**Data System**

Small Area Health Insurance Estimates

**Data Sources**

Multiple sources including ACS, tax returns, SNAP data, Medicaid, and Census.

**What years of data are included in this file?**

2006-2016

**Any age or gender specifications?**

Under age 18

**What is the numerator?**

The number of children currently uninsured in the county

**What is the denominator?**

The number of children in the county

**Is the measure age-adjusted?**

No

**Are there any breaks in the trends for this measure?**

Yes, data prior to 2008 was based primarily on Current Population Survey data, while data from 2008 on was based primarily on ACS data.  Data comparisons should be made carefully.

**Website to download data**

https://www.census.gov/programs-surveys/sahie/data/datasets.html

**Online documentation**
https://www.census.gov/programs-surveys/sahie/technical-documentation.html