

# COUNTY HEALTH RANKINGS 2016: CODEBOOK FOR ANALYTIC DATASETS

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The SAS and CSV files provided at <http://www.countyhealthrankings.org/rankings/data> contain the measure value, numerator, denominator and confidence intervals, where available, for all County Health Rankings ranked and unranked measures for each county in the nation.

This codebook and documentation provides the name of each variable, its data source and the years of data. For the full detailed list of variable names, please see the file titled “DataDictionary\_2016.”

## Standard variable format

Each measure variable name is coded with a measure ID. These measure IDs can be found in the tables at the end of the documentation and in the data dictionary referenced above. You will find at least five variables for each measure:

Measure value coded as v(measure id)\_rawvalue

Numerator coded as v(measure id)\_numerator

Denominator coded as v(measure id)\_denominator

Lower bound of 95% confidence interval coded as v(measure id)\_cilow

Upper bound of 95% confidence interval coded as v(measure id)\_cihigh

## Non-standard measure variables

**Health care provider measures:** Four measures have a “ratio” variable included. These measures and their corresponding variable are

- Primary care physicians (variable = v004\_other\_data\_1),
- Dentists (variable = v088\_other\_data\_1),
- Mental health providers (variable = v062\_other\_data\_1), and
- Other primary care providers (variable = v131\_other\_data\_1)

For these measures, we report a ratio of population:# number of providers on the website. However, in calculating the rankings, we use the actual *rate* of number of providers/100,000 population. We include both the rate (as the raw value variable), and the *ratio* (as the “other data 1” variable). If you are trying to replicate the rankings, you should use the rate rather than the ratio.

When a county has no reported providers (ratio = [population]:0), the value for the ratio variable is assigned to be the negative population value. For example, v004\_other\_data\_1 stores the ratio variable as a positive number if the ratio is XXXX:1. However, for counties that have zero providers, the value is stored as a negative number to indicate that the ratio is different and is instead XXXX:0. (For example, if the ratio is 2000:0, the value stored in the field would be -2000.)

**Drinking water violations** is a Yes/No variable, where 1 indicates a “Yes” and a 0 indicates a “No”. A "Yes" indicates that at least one community water system in the county received a violation during the specified time frame, while a "No" indicates that there were no health-based drinking water violations in any community water system in the county. State values are the proportion of counties in the state that have a violation.

**Drug overdose deaths – modeled:**

National and state values represent the modeled death rate per 100,000 population.

County values in the analytic dataset are provided as numeric codes that reflect modeled interval rates of drug-overdose deaths per 100,000 population. The numeric codes and the corresponding rates used for the 2016 data release are as follows:

County Value in Dataset	Death rate per 100,000 population	County Value in Dataset	Death rate per 100,000 population
1	0.0-2.0	7	12.1-14.0
2	2.1-4.0	8	14.1-16.0
3	4.1-6.0	9	16.1-18.0
4	6.1-8.0	10	18.1-20.0
5	8.1-10.0	11	>20.0
6	10.1-12.0		

For information about how the County Health Rankings are calculated, and more in depth descriptions of each of the measures, please visit [www.countyhealthrankings.org](http://www.countyhealthrankings.org)

## 2016 Measures & Data Sources

	Measure (ID)	Data Source	Years of Data
<b>HEALTH OUTCOMES</b>			
<b>Length of Life</b>	Premature death (1)	National Center for Health Statistics – Mortality Files	2011-2013
<b>Quality of Life</b>	Poor or fair health (2)	Behavioral Risk Factor Surveillance System	2014
	Poor physical health days (36)	Behavioral Risk Factor Surveillance System	2014
	Poor mental health days (42)	Behavioral Risk Factor Surveillance System	2014
	Low birthweight (37)	National Center for Health Statistics – Natality Files	2007-2013
<b>HEALTH FACTORS</b>			
<b>HEALTH BEHAVIORS</b>			
<b>Tobacco Use</b>	Adult smoking (9)	Behavioral Risk Factor Surveillance System	2014
<b>Diet and</b>	Adult obesity (11)	CDC Diabetes Interactive Atlas	2012
<b>Exercise</b>	Food environment index (133)	USDA Food Environment Atlas, Map the Meal Gap	2013
	Physical inactivity (70)	CDC Diabetes Interactive Atlas	2012
	Access to exercise opportunities (132)	Business Analyst, Delorme map data, ESRI, & US Census Tigerline Files	2010 & 2014
<b>Alcohol and</b>	Excessive drinking (49)	Behavioral Risk Factor Surveillance System	2014
<b>Drug Use</b>	Alcohol-impaired driving deaths (134)	Fatality Analysis Reporting System	2010-2014
<b>Sexual Activity</b>	Sexually transmitted infections (45)	National Center for HIV/AIDS, Viral Hepatitis, STD, and TB prevention	2013
	Teen births (14)	National Center for Health Statistics – Natality Files	2007-2013
<b>CLINICAL CARE</b>			
<b>Access to Care</b>	Uninsured (85)	Small Area Health Insurance Estimates	2013
	Primary care physicians (4)	Area Health Resource File/American Medical Association	2013
	Dentists (88)	Area Health Resource File/National Provider Identification file	2014
	Mental health providers (62)	CMS, National Provider Identification file	2015
<b>Quality of Care</b>	Preventable hospital stays (5)	Dartmouth Atlas of Health Care	2013
	Diabetic monitoring (7)	Dartmouth Atlas of Health Care	2013
	Mammography screening (50)	Dartmouth Atlas of Health Care	2013
<b>SOCIAL AND ECONOMIC FACTORS</b>			
<b>Education</b>	High school graduation (21)	EDFacts	2012-2013
	Some college (69)	American Community Survey	2010-2014
<b>Employment</b>	Unemployment (23)	Bureau of Labor Statistics	2014
<b>Income</b>	Children in poverty (24)	Small Area Income and Poverty Estimates	2014
	Income inequality (44)	American Community Survey	2010-2014
<b>Family and</b>	Children in single-parent households (82)	American Community Survey	2010-2014
<b>Social Support</b>	Social associations (140)	County Business Patterns	2013
<b>Community</b>	Violent crime (43)	Uniform Crime Reporting - FBI	2010-2012
<b>Safety</b>	Injury deaths (135)	CDC WONDER mortality data	2009-2013
<b>PHYSICAL ENVIRONMENT</b>			
<b>Air and Water</b>	Air pollution - particulate matter <sup>1</sup> (125)	CDC WONDER environmental data	2011
	Drinking water violations (124)	Safe Drinking Water Information System	FY2013-14
<b>Housing and</b>	Severe housing problems (136)	Comprehensive Housing Affordability Strategy (CHAS) data	2008-2012
	Driving alone to work (67)	American Community Survey	2010-2014
	Long commute – driving alone (137)	American Community Survey	2010-2014

<sup>1</sup> Not available for AK and HI.

## *Additional Measures, Data Sources, and Years of Data, 2016*

Measure (ID)	Data Source	Years of Data
<b>Health Outcomes</b>		
Premature age-adjusted mortality (127)	CDC WONDER mortality data	2011-2013
Child mortality (128)	CDC WONDER mortality data	2010-2013
Infant mortality (129)	Health Indicators Warehouse	2006-2012
Frequent physical distress (144)	Behavioral Risk Factor Surveillance System	2014
Frequent mental distress (145)	Behavioral Risk Factor Surveillance System	2014
Diabetes (60)	CDC Diabetes Interactive Atlas	2012
HIV prevalence (61)	National HIV Surveillance System	2012
<b>Health Behaviors</b>		
Food insecurity (139)	Map the Meal Gap	2013
Limited access to healthy foods (83)	USDA Food Environment Atlas	2010
Drug overdose deaths (138)	CDC WONDER mortality data	2012-2014
Drug overdose deaths-modeled (146)	National Center for Health Statistics-cdc.data.gov	2014
Motor vehicle crash deaths (39)	CDC WONDER mortality data	2007-2013
Insufficient sleep (143)	Behavioral Risk Factor Surveillance System	2014
<b>Clinical Care</b>		
Uninsured adults (3)	Small Area Health Insurance Estimates	2013
Uninsured children (122)	Small Area Health Insurance Estimates	2013
Health care costs (86)	Dartmouth Atlas of Health Care	2013
Other primary care providers (131)	CMS, National Provider Identification file	2015
<b>Social and Economic Environment</b>		
Median household income (63)	Small Area Income and Poverty Estimates	2014
Children eligible for free lunch (65)	National Center for Education Statistics	2012-2013
Residential segregation—black/white (141)	American Community Survey	2010-2014
Residential segregation—non-white/white (142)	American Community Survey	2010-2014
Homicides (15)	CDC WONDER mortality data	2007-2013
<b>Demographics</b>		
Population (51)	Census Population Estimates	2014
% below 18 years of age (52)	Census Population Estimates	2014
% 65 and older (53)	Census Population Estimates	2014
% Non-Hispanic African American (54)	Census Population Estimates	2014
% American Indian and Alaskan Native (55)	Census Population Estimates	2014
% Asian (81)	Census Population Estimates	2014
% Native Hawaiian/Other Pacific Islander (80)	Census Population Estimates	2014
% Hispanic (56)	Census Population Estimates	2014
% Non-Hispanic white (126)	Census Population Estimates	2014
% not proficient in English (59)	American Community Survey	2010-2014
% Females (57)	Census Population Estimates	2014
% Rural (58)	Census Population Estimates	2010