

COUNTY HEALTH RANKINGS 2016: CODEBOOK FOR ANALYTIC DATASETS

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* measures, both the measures that are ranked as well as the additional 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.

Each measure variable name is coded with a measure ID. You will find at least five variables for each measure.

Measure value coded as `measure_(measure id)_value`
Numerator coded as `measure_(measure id)_numerator`
Denominator coded as `measure_(measure id)_denominator`
Lower bound of 95% confidence interval coded as `measure_(measure id)_cilow`
Upper bound of 95% confidence interval coded as `measure_(measure id)_cihigh`

In addition, four variables have a “ratio” variable included:

- Primary care physicians,
- Dentists,
- Mental health providers, and
- Other primary care providers

For these measures, we report a ratio of #number of providers:population 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 value variable), and the *ratio*, included as a text variable. If you are trying to replicate the rankings, you should use the rate rather than the ratio.

Two measures text variables rather than numeric as their measure value:

- Drinking water violations is a Yes/No variable, where 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 has estimates which are a range of values, and the highest values are captured by >20.

Measure values are formatted to match the number of decimal places shown on the website, however, the values have not actually been rounded.

There are five descriptive variables included as well:

1. statecode = FIPS State Code
2. countycode = FIPS County Code
3. state = State abbreviation
4. county = County name
5. NORANK16 equals 1 when the county was not ranked due to insufficient data. Otherwise norank16 is set to missing.

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

2016 Measures & Data Sources

	Measure (ID)	Data Source	Years of Data
HEALTH OUTCOMES			
Length of Life	Premature death (1)	National Center for Health Statistics – Mortality Files	2011-2013
Quality of Life	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
HEALTH FACTORS			
HEALTH BEHAVIORS			
Tobacco Use	Adult smoking (9)	Behavioral Risk Factor Surveillance System	2014
Diet and Exercise	Adult obesity (11)	CDC Diabetes Interactive Atlas	2012
	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
Alcohol and Drug Use	Excessive drinking (49)	Behavioral Risk Factor Surveillance System	2014
	Alcohol-impaired driving deaths (134)	Fatality Analysis Reporting System	2010-2014
Sexual Activity	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
CLINICAL CARE			
Access to Care	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
Quality of Care	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
SOCIAL AND ECONOMIC FACTORS			
Education	High school graduation (21)	EDFacts	2012-2013
	Some college (69)	American Community Survey	2010-2014
Employment	Unemployment (23)	Bureau of Labor Statistics	2014
Income	Children in poverty (24)	Small Area Income and Poverty Estimates	2014
	Income inequality (44)	American Community Survey	2010-2014
Family and Social Support	Children in single-parent households (82)	American Community Survey	2010-2014
	Social associations (140)	County Business Patterns	2013
Community Safety	Violent crime (43)	Uniform Crime Reporting - FBI	2010-2012
	Injury deaths (135)	CDC WONDER mortality data	2009-2013
PHYSICAL ENVIRONMENT			
Air and Water Quality	Air pollution - particulate matter ¹ (125)	CDC WONDER environmental data	2011
	Drinking water violations (124)	Safe Drinking Water Information System	FY2013-14
Housing and Transit	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

¹ Not available for AK and HI.

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

Measure (ID)	Data Source	Years of Data
Health Outcomes		
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
Health Behaviors		
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
Clinical Care		
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
Social and Economic Environment		
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
Demographics		
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

County Health Rankings & Roadmaps

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% not proficient in English (59)	American Community Survey	2010-2014
% Females (57)	Census Population Estimates	2014
% Rural (58)	Census Population Estimates	2010