

COUNTY HEALTH RANKINGS 2018: 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.

Drinking water violations is a Yes/No variable, where a 1 indicates a "Yes", while a zero indicates a "No".

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. `NORANK18` equals 1 when the county was not ranked due to insufficient data. Otherwise `norank17` 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

2017 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	2014-2016
Quality of Life	Poor or fair health (2)	Behavioral Risk Factor Surveillance System	2016
	Poor physical health days (36)	Behavioral Risk Factor Surveillance System	2016
	Poor mental health days (42)	Behavioral Risk Factor Surveillance System	2016
	Low birthweight (37)	National Center for Health Statistics – Natality Files	2010-2016
HEALTH FACTORS			
HEALTH BEHAVIORS			
Tobacco Use	Adult smoking (9)	Behavioral Risk Factor Surveillance System	2016
Diet and Exercise	Adult obesity (11)	CDC Diabetes Interactive Atlas	2014
	Food environment index (133)	USDA Food Environment Atlas, Map the Meal Gap	2015
	Physical inactivity (70)	CDC Diabetes Interactive Atlas	2014
	Access to exercise opportunities (132)	Business Analyst, Delorme map data, ESRI, & US Census Tigerline Files	2010 & 2016
	Alcohol and Drug Use	Excessive drinking (49)	Behavioral Risk Factor Surveillance System
	Alcohol-impaired driving deaths (134)	Fatality Analysis Reporting System	2012-2016
Sexual Activity	Sexually transmitted infections (45)	National Center for HIV/AIDS, Viral Hepatitis, STD, and TB prevention	2015
	Teen births (14)	National Center for Health Statistics – Natality Files	2010-2016
CLINICAL CARE			
Access to Care	Uninsured (85)	Small Area Health Insurance Estimates	2015
	Primary care physicians (4)	Area Health Resource File/American Medical Association	2015
	Dentists (88)	Area Health Resource File/National Provider Identification file	2016
	Mental health providers (62)	CMS, National Provider Identification file	2017
Quality of Care	Preventable hospital stays (5)	Dartmouth Atlas of Health Care	2015
	Diabetes monitoring (7)	Dartmouth Atlas of Health Care	2014
	Mammography screening (50)	Dartmouth Atlas of Health Care	2014
SOCIAL AND ECONOMIC FACTORS			
Education	High school graduation (21)	EDFacts	2014-2015
	Some college (69)	American Community Survey	2012-2016
Employment	Unemployment (23)	Bureau of Labor Statistics	2016
Income	Children in poverty (24)	Small Area Income and Poverty Estimates	2016
	Income inequality (44)	American Community Survey	2012-2016
Family and Social Support	Children in single-parent households (82)	American Community Survey	2012-2016
	Social associations (140)	County Business Patterns	2015
Community Safety	Violent crime (43)	Uniform Crime Reporting – FBI	2012-2014
	Injury deaths (135)	CDC WONDER mortality data	2012-2016
PHYSICAL ENVIRONMENT			
Air and Water Quality	Air pollution – particulate matter ¹ (125)	Environmental Public Health Tracking Network	2012
	Drinking water violations (124)	Safe Drinking Water Information System	2016
Housing and Transit	Severe housing problems (136)	Comprehensive Housing Affordability Strategy (CHAS) data	2010-2014
	Driving alone to work (67)	American Community Survey	2012-2016
	Long commute – driving alone (137)	American Community Survey	2012-2016

¹ Not available for AK and HI.

Additional Measures, Data Sources, and Years of Data, 2017

Measure (ID)	Data Source	Years of Data
Health Outcomes		
Premature age-adjusted mortality (127)	CDC WONDER mortality data	2014-2016
Infant mortality (129)	Health Indicators Warehouse	2000-2016
Child mortality (128)	CDC WONDER mortality data	2013-2016
Frequent physical distress (144)	Behavioral Risk Factor Surveillance System	2016
Frequent mental distress (145)	Behavioral Risk Factor Surveillance System	2016
Diabetes prevalence (60)	CDC Diabetes Interactive Atlas	2015
HIV prevalence (61)	National Center for HIV/AIDS, Viral Hepatitis, STD, and TB prevention	2014
Health Behaviors		
Food insecurity (139)	Map the Meal Gap	2015
Limited access to healthy foods (83)	USDA Food Environment Atlas	2015
Motor vehicle crash deaths (39)	CDC WONDER mortality data	2010-2016
Drug overdose deaths (138)	CDC WONDER mortality data	2014-2016
Drug overdose deaths modeled (146)	National Center for Health Statistics	2016
Insufficient sleep (143)	Behavioral Risk Factor Surveillance System	2016
Clinical Care		
Uninsured adults (3)	Small Area Health Insurance Estimates	2015
Uninsured children (122)	Small Area Health Insurance Estimates	2015
Health care costs (86)	Dartmouth Atlas of Health Care	2015
Other primary care providers (131)	CMS, National Provider Identification file	2017
Social and Economic Environment		
Disconnected youth (149)	Measure of America	2010-2014
Median household income (63)	Small Area Income and Poverty Estimates	2016
Children eligible for free or reduced price lunch (65)	National Center for Education Statistics	2015-2016
Homicides (15)	CDC WONDER mortality data	2010-2016
Firearm fatalities (148)	CDC WONDER mortality data	2012-2016
Residential segregation—black/white (141)	American Community Survey	2012-2016
Residential segregation—non-white/white (142)	American Community Survey	2012-2016
Demographics		
Population (51)	Census Population Estimates	2016
% below 18 years of age (52)	Census Population Estimates	2016
% 65 and older (53)	Census Population Estimates	2016
% Non-Hispanic African American (54)	Census Population Estimates	2016
% American Indian and Alaskan Native (55)	Census Population Estimates	2016
% Asian (81)	Census Population Estimates	2016
% Native Hawaiian/Other Pacific Islander (80)	Census Population Estimates	2016
% Hispanic (56)	Census Population Estimates	2016
% Non-Hispanic white (126)	Census Population Estimates	2016
% not proficient in English (59)	American Community Survey	2012-2016
% Females (57)	Census Population Estimates	2016
% Rural (58)	Census Population Estimates	2010