

COUNTY HEALTH RANKINGS 2019: 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 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.

There are seven descriptive variables included for each row of data to identify what geographic area the data is for and additional information, such as if the county was ranked. These variables and their descriptions are:

1. statecode = FIPS State Code
2. countycode = FIPS County Code
3. fipscode = 5-digit FIPS Code
4. state = State abbreviation
5. county = County or State name
6. year = Release year
7. county_ranked equals 1 when the county was ranked. County_ranked = 0 when the county was not ranked. This variable is set to missing for state and nation-level data, since these are not eligible to be ranked.

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. 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.)

Severe housing problems (v136): In addition to the standard variables (e.g. raw value, confidence intervals), there are three additional variables. These are:

- Percentage of households with high housing costs (variable = v136_other_data_1),
- Percentage of households with overcrowding (variable = v136_other_data_2),
- Percentage of households with lack of kitchen or plumbing facilities (variable = v136_other_data_3)

Race-specific data: Several measures are now available by racial or ethnic group for some counties. These measures are coded as

- v(measure ID)_black for Blacks
- v(measure ID)_hispanic for Hispanics
- v(measure ID)_white for Whites

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

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

2019 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	2015-2017
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	2011-2017
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	2015
	Food environment index (133)	USDA Food Environment Atlas, Map the Meal Gap from Feeding America	2015 & 2016
	Physical inactivity (70)	CDC Diabetes Interactive Atlas	2015
	Access to exercise opportunities (132)	Business Analyst, Delorme map data, ESRI, & US Census Tigerline Files	2010 & 2018
Alcohol and Drug Use	Excessive drinking (49)	Behavioral Risk Factor Surveillance System	2016
	Alcohol-impaired driving deaths (134)	Fatality Analysis Reporting System	2013-2017
Sexual Activity	Sexually transmitted infections (45)	National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention	2016
	Teen births (14)	National Center for Health Statistics - Natality files	2011-2017
CLINICAL CARE			
Access to Care	Uninsured (85)	Small Area Health Insurance Estimates	2016
	Primary care physicians (4)	Area Health Resource File/American Medical Association	2016
	Dentists (88)	Area Health Resource File/National Provider Identification file	2017
	Mental health providers (62)	CMS, National Provider Identification	2018
Quality of Care	Preventable hospital stays (5)	Mapping Medicare Disparities Tool	2016
	Mammography screening (50)	Mapping Medicare Disparities Tool	2016
	Flu vaccinations (155)	Mapping Medicare Disparities Tool	2016
SOCIAL & ECONOMIC FACTORS			
Education	High school graduation (21)	State-specific sources & EDfacts	2016-2017
	Some college (69)	American Community Survey, 5-year estimates	2013-2017
Employment	Unemployment (23)	Bureau of Labor Statistics	2017
Income	Children in poverty (24)	Small Area Income and Poverty Estimates	2017
	Income inequality (44)	American Community Survey, 5-year estimates	2013-2017
Family and Social Support	Children in single-parent households (82)	American Community Survey, 5-year estimates	2013-2017
	Social associations (140)	County Business Patterns	2016
Community Safety	Violent crime (43)	Uniform Crime Reporting - FBI	2014&2016
	Injury deaths (135)	CDC WONDER mortality data	2013-2017
PHYSICAL ENVIRONMENT			
Air and Water Quality	Air pollution - particulate matter (125)*	Environmental Public Health Tracking Network	2014
	Drinking water violations (124)	Safe Drinking Water Information System	2017
Housing and Transit	Severe housing problems (136)	Comprehensive Housing Affordability Strategy (CHAS) data	2011-2015
	Driving alone to work (67)	American Community Survey, 5-year estimates	2013-2017
	Long commute - driving alone (137)	American Community Survey, 5-year estimates	2013-2017

*Not available for AK and HI

Additional Measures, Data Sources, and Years of Data, 2019

	Measure (ID)	Data Source	Years of Data
HEALTH OUTCOMES			
Length of Life	Life expectancy (147)	National Center for Health Statistics - Mortality Files	2015-2017
	Premature age-adjusted mortality (127)	CDC WONDER mortality data	2015-2017
	Child mortality (128)	CDC WONDER mortality data	2014-2017
	Infant mortality (129)	CDC WONDER mortality data	2011-2017
Quality of Life	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	2015
HEALTH FACTORS			
HEALTH BEHAVIORS			
Diet and Exercise	Food insecurity (139)	Map the Meal Gap	2016
	Limited access to healthy foods (83)	USDA Food Environment Atlas	2015
Alcohol and Drug Use	Drug overdose deaths (138)	CDC WONDER mortality data	2015-2017
	Motor vehicle crash deaths (39)	CDC WONDER mortality data	2011-2017
Other Health Behaviors	Insufficient sleep (143)	Behavioral Risk Factor Surveillance System	2016
CLINICAL CARE			
Access to Care	Uninsured adults (3)	Small Area Health Insurance Estimates	2016
	Uninsured children (122)	Small Area Health Insurance Estimates	2016
	Other primary care providers (131)	CMS, National Provider Identification	2018
SOCIAL & ECONOMIC FACTORS			
Education	Disconnected youth (149)	American Community Survey, 5-year estimates	2013-2017
Income	Median household income (63)	Small Area Income and Poverty Estimates	2017
	Children eligible for free or reduced price lunch (65)	National Center for Education Statistics	2016-2017
Family and Social Support	Residential segregation - Black/White (141)	American Community Survey, 5-year estimates	2013-2017
	Residential segregation - non-white/white (142)	American Community Survey, 5-year estimates	2013-2017
Community Safety	Homicides (15)	CDC WONDER mortality data	2011-2017
	Firearm fatalities (148)	CDC WONDER mortality data	2013-2017
PHYSICAL ENVIRONMENT			
Housing and Transit	Homeownership (153)	American Community Survey, 5-year estimates	2013-2017
	Severe housing cost burden (154)	American Community Survey, 5-year estimates	2013-2017
DEMOGRAPHICS			
All	Population (51)	Census Population Estimates	2017
	% below 18 years of age (52)	Census Population Estimates	2017
	% 65 and older (53)	Census Population Estimates	2017
	% Non-Hispanic African American (54)	Census Population Estimates	2017
	% American Indian and Alaskan Native (55)	Census Population Estimates	2017
	% Asian (81)	Census Population Estimates	2017
	% Native Hawaiian/Other Pacific Islander (80)	Census Population Estimates	2017
	% Hispanic (56)	Census Population Estimates	2017
	% Non-Hispanic white (126)	Census Population Estimates	2017
	% not proficient in English (59)	American Community Survey, 5-year estimates	2013-2017
	% Females (57)	Census Population Estimates	2017
	% Rural (58)	Census Population Estimates	2010