

COUNTY HEALTH RANKINGS 2017: 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. `NORANK17` 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	2012-2014
Quality of Life	Poor or fair health (2)	Behavioral Risk Factor Surveillance System
	Poor physical health days (36)	Behavioral Risk Factor Surveillance System
	Poor mental health days (42)	Behavioral Risk Factor Surveillance System
	Low birthweight (37)	National Center for Health Statistics – Natality Files
HEALTH FACTORS		
HEALTH BEHAVIORS		
Tobacco Use Adult smoking (9)	Behavioral Risk Factor Surveillance System	2015
Diet and Exercise	Adult obesity (11)	CDC Diabetes Interactive Atlas
	Food environment index (133)	USDA Food Environment Atlas, Map the Meal Gap
	Physical inactivity (70)	CDC Diabetes Interactive Atlas
	Access to exercise opportunities (132)	Business Analyst, Delorme map data, ESRI, & US Census Tigerline Files
Alcohol and Drug Use	Excessive drinking (49)	Behavioral Risk Factor Surveillance System
	Alcohol-impaired driving deaths (134)	Fatality Analysis Reporting System
Sexual Activity	Sexually transmitted infections (45)	National Center for HIV/AIDS, Viral Hepatitis, STD, and TB prevention
	Teen births (14)	National Center for Health Statistics – Natality Files
CLINICAL CARE		
Access to Care	Uninsured (85)	Small Area Health Insurance Estimates
	Primary care physicians (4)	Area Health Resource File/American Medical Association
	Dentists (88)	Area Health Resource File/National Provider Identification file
	Mental health providers (62)	CMS, National Provider Identification file
Quality of Care	Preventable hospital stays (5)	Dartmouth Atlas of Health Care
	Diabetes monitoring (7)	Dartmouth Atlas of Health Care
	Mammography screening (50)	Dartmouth Atlas of Health Care
SOCIAL AND ECONOMIC FACTORS		
Education	High school graduation (21)	EDFacts
	Some college (69)	American Community Survey
Employment Unemployment (23)	Bureau of Labor Statistics	2015
Income	Children in poverty (24)	Small Area Income and Poverty Estimates
	Income inequality (44)	American Community Survey
Family and Social Support	Children in single-parent households (82)	American Community Survey
	Social associations (140)	County Business Patterns
Community Safety Violent crime (43)	Uniform Crime Reporting – FBI	2012-2014
Injury deaths (135)	CDC WONDER mortality data	2011-2015
PHYSICAL ENVIRONMENT		
Air and Water Quality	Air pollution – particulate matter ¹ (125)	Environmental Public Health Tracking Network
	Drinking water violations (124)	Safe Drinking Water Information System
Housing and Transit	Severe housing problems (136)	Comprehensive Housing Affordability Strategy (CHAS) data
	Driving alone to work (67)	American Community Survey
	Long commute – driving alone (137)	American Community Survey

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	2013-2015
Infant mortality (129)	Health Indicators Warehouse	2007-2013
Child mortality (128)	CDC WONDER mortality data	2012-2015
Frequent physical distress (144)	Behavioral Risk Factor Surveillance System	2015
Frequent mental distress (145)	Behavioral Risk Factor Surveillance System	2015
Diabetes prevalence (60)	CDC Diabetes Interactive Atlas	2013
HIV prevalence (61)	National Center for HIV/AIDS, Viral Hepatitis, STD, and TB prevention	2013
Health Behaviors		
Food insecurity (139)	Map the Meal Gap	2014
Limited access to healthy foods (83)	USDA Food Environment Atlas	2010
Motor vehicle crash deaths (39)	CDC WONDER mortality data	2009-2015
Drug overdose deaths (138)	CDC WONDER mortality data	2013-2015
Insufficient sleep (143)	Behavioral Risk Factor Surveillance System	2014
Clinical Care		
Uninsured adults (3)	Small Area Health Insurance Estimates	2014
Uninsured children (122)	Small Area Health Insurance Estimates	2014
Health care costs (86)	Dartmouth Atlas of Health Care	2014
Other primary care providers (131)	CMS, National Provider Identification file	2016
Social and Economic Environment		
Disconnected youth (149)	Measure of America	2008-2012
Median household income (63)	Small Area Income and Poverty Estimates	2015
Children eligible for free or reduced price lunch (65)	National Center for Education Statistics	2014-2015
Homicides (15)	CDC WONDER mortality data	2009-2015
Firearm fatalities (148)	CDC WONDER mortality data	2011-2015
Residential segregation—black/white (141)	American Community Survey	2011-2015
Residential segregation—non-white/white (142)	American Community Survey	2011-2015
Demographics		
Population (51)	Census Population Estimates	2015
% below 18 years of age (52)	Census Population Estimates	2015
% 65 and older (53)	Census Population Estimates	2015
% Non-Hispanic African American (54)	Census Population Estimates	2015
% American Indian and Alaskan Native (55)	Census Population Estimates	2015
% Asian (81)	Census Population Estimates	2015
% Native Hawaiian/Other Pacific Islander (80)	Census Population Estimates	2015
% Hispanic (56)	Census Population Estimates	2015
% Non-Hispanic white (126)	Census Population Estimates	2015
% not proficient in English (59)	American Community Survey	2011-2015
% Females (57)	Census Population Estimates	2015
% Rural (58)	Census Population Estimates	2010