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 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_2017."

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 a 1 indicates a "Yes", and a zero 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.

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	2015
	Poor physical health days (36)	Behavioral Risk Factor Surveillance System	2015
	Poor mental health days (42)	Behavioral Risk Factor Surveillance System	2015
	Low birthweight (37)	National Center for Health Statistics – Natality Files	2008-2014
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	2013
	Food environment index (133)	USDA Food Environment Atlas, Map the Meal Gap	2014
	Physical inactivity (70)	CDC Diabetes Interactive Atlas	2013
	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	2015
	Alcohol-impaired driving deaths (134)	Fatality Analysis Reporting System	2011-2015
Sexual Activity	Sexually transmitted infections (45)	National Center for HIV/AIDS, Viral Hepatitis, STD, and TB prevention	2014
	Teen births (14)	National Center for Health Statistics – Natality Files	2008-2014
CLINICAL CARE			
Access to Care	Uninsured (85)	Small Area Health Insurance Estimates	2014
	Primary care physicians (4)	Area Health Resource File/American Medical Association	2014
	Dentists (88)	Area Health Resource File/National Provider Identification file	2015
	Mental health providers (62)	CMS, National Provider Identification file	2016
Quality of Care	Preventable hospital stays (5)	Dartmouth Atlas of Health Care	2014
	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	2011-2015
Employment	Unemployment (23)	Bureau of Labor Statistics	2015
Income	Children in poverty (24)	Small Area Income and Poverty Estimates	2015
	Income inequality (44)	American Community Survey	2011-2015
Family and Social Support	Children in single-parent households (82)	American Community Survey	2011-2015
	Social associations (140)	County Business Patterns	2014
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	2012
	Drinking water violations (124)	Safe Drinking Water Information System	FY2013-14
Housing and Transit	Severe housing problems (136)	Comprehensive Housing Affordability Strategy (CHAS) data	2009-2013
	Driving alone to work (67)	American Community Survey	2011-2015
	Long commute – driving alone (137)	American Community Survey	2011-2015

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[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	2010-2014
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