

COUNTY HEALTH RANKINGS 2022: ANALYTIC DATASET CODEBOOK

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 (v004, v088, v062, v131): 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, the value reported for each county is a ratio of population:# number of providers. However, in calculating the rankings, we use the actual *rate* of number of providers/100,000 population. The analytic dataset includes 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 (v124): is a Yes/No variable, where a 1 indicates a "Yes", while a zero indicates a "No".

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)

Juvenile arrests (v158): There are two variables that are summed to create the number of juvenile arrests:

- Petitioned cases (variable = v158_other_data_1),
- Non-petitioned cases (variable = v158_other_data_2),

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

- v(measure ID)_race_aian for the American Indian & Alaska Native population estimate
- v(measure ID)_race_asian for the Asian population estimate
- v(measure ID)_race_black for the Black population estimate
- v(measure ID)_race_hispanic for the Hispanic population estimate
- v(measure ID)_race_white for the white population estimate

If confidence intervals are available for race-specific data, the variable name is the same as the raw value variable, except with a “_cilow” or “_cihigh” extension. For example, the confidence interval for American Indian & Alaska Native years of potential life lost values are given by v001_race_aian_cilow and v001_race_aian_cihigh.

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

2022 Ranked Measures

	Measure (ID)	Data Source	Years of Data
HEALTH OUTCOMES			
Length of Life	Premature death (1)*	National Center for Health Statistics - Mortality Files	2018-2020
Quality of Life	Poor or fair health (2)†	Behavioral Risk Factor Surveillance System	2019
	Poor physical health days (36)‡	Behavioral Risk Factor Surveillance System	2019
	Poor mental health days (42)‡	Behavioral Risk Factor Surveillance System	2019
	Low birthweight (37)*	National Center for Health Statistics - Natality files	2014-2020
HEALTH FACTORS			
HEALTH BEHAVIORS			
Tobacco Use	Adult smoking (9)†	Behavioral Risk Factor Surveillance System	2019
Diet and Exercise	Adult obesity (11)†	CDC Diabetes Interactive Atlas	2019
	Food environment index (133)	USDA Food Environment Atlas, Map the Meal Gap from Feeding America	2019
	Physical inactivity (70)†	CDC Diabetes Interactive Atlas	2019
	Access to exercise opportunities (132)	Business Analyst, Delorme map data, ESRI, & US Census TIGER/Line Files	2010 & 2021
Alcohol and Drug Use	Excessive drinking (49)†	Behavioral Risk Factor Surveillance System	2019
	Alcohol-impaired driving deaths (134)	Fatality Analysis Reporting System	2016-2020
Sexual Activity	Sexually transmitted infections (45)	National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention	2019
	Teen births (14)*	National Center for Health Statistics - Natality files	2014-2020
CLINICAL CARE			
Access to Care	Uninsured (85)	Small Area Health Insurance Estimates	2019
	Primary care physicians (4)	Area Health Resource File/American Medical Association	2019
	Dentists (88)	Area Health Resource File/National Provider Identification file	2020
	Mental health providers (62)	CMS, National Provider Identification	2021
Quality of Care	Preventable hospital stays (5)*	Mapping Medicare Disparities Tool	2019
	Mammography screening (50)*	Mapping Medicare Disparities Tool	2019
	Flu vaccinations (155)*	Mapping Medicare Disparities Tool	2019
SOCIAL & ECONOMIC FACTORS			
Education	High school completion (168)	State-specific sources & ED Facts	2016-2020
	Some college (69)	American Community Survey, 5-year estimates	2016-2020
Employment	Unemployment (23)	Bureau of Labor Statistics	2020
Income	Children in poverty (24)*	Small Area Income and Poverty Estimates	2020
	Income inequality (44)	American Community Survey, 5-year estimates	2016-2020
Family and Social Support	Children in single-parent households (82)	American Community Survey, 5-year estimates	2016-2020
	Social associations (140)	County Business Patterns	2019
Community Safety	Violent crime (43)	Uniform Crime Reporting - FBI	2014 & 2016
	Injury deaths (135)*	CDC WONDER mortality data	2016-2020
PHYSICAL ENVIRONMENT			
Air and Water Quality	Air pollution - particulate matter (125)	Environmental Public Health Tracking Network	2018
	Drinking water violations (124)†	Safe Drinking Water Information System	2020
Housing and Transit	Severe housing problems (136)	Comprehensive Housing Affordability Strategy (CHAS) data	2014-2018
	Driving alone to work (67)*	American Community Survey, 5-year estimates	2016-2020
	Long commute - driving alone (137)	American Community Survey, 5-year estimates	2016-2020

*Indicates subgroup data by race and ethnicity is available; †2018 data for New Jersey; ‡Data not available in HI

2022 Additional Measures

	Measure (ID)	Data Source	Years of Data
HEALTH OUTCOMES			
Length of Life	COVID-19 age-adjusted mortality (173)	National Center for Health Statistics - Mortality Files	2020
	Life expectancy (147)*	National Center for Health Statistics - Mortality Files	2018-2020
	Premature age-adjusted mortality (127)*	National Center for Health Statistics - Mortality Files	2018-2020
	Child mortality (128)*	National Center for Health Statistics - Mortality Files	2017-2020
	Infant mortality (129)*	National Center for Health Statistics - Mortality Files	2014-2020
Quality of Life	Frequent physical distress (144)†	Behavioral Risk Factor Surveillance System	2019
	Frequent mental distress (145)†	Behavioral Risk Factor Surveillance System	2019
	Diabetes prevalence (60)†	Behavioral Risk Factor Surveillance System	2019
	HIV prevalence (61)+	National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention	2019
HEALTH FACTORS			
HEALTH BEHAVIORS			
Diet and Exercise	Food insecurity (139)	Map the Meal Gap	2019
	Limited access to healthy foods (83)	USDA Food Environment Atlas	2019
Alcohol and Drug Use	Drug overdose deaths (138)*	National Center for Health Statistics - Mortality Files	2018-2020
	Motor vehicle crash deaths (39)*	National Center for Health Statistics - Mortality Files	2014-2020
Other Health Behaviors	Insufficient sleep (143)	Behavioral Risk Factor Surveillance System	2018
CLINICAL CARE			
Access to Care	Uninsured adults (3)	Small Area Health Insurance Estimates	2019
	Uninsured children (122)	Small Area Health Insurance Estimates	2019
	Other primary care providers (131)	CMS, National Provider Identification	2021
SOCIAL & ECONOMIC FACTORS			
Education	High school graduation (021)+	EDFacts	2018-2019
	Disconnected youth (149)	American Community Survey, 5-year estimates	2016-2020
	Reading scores (159)**	Stanford Education Data Archive	2018
	Math scores (160)**	Stanford Education Data Archive	2018
	School segregation (167)	National Center for Education Statistics	2020-2021
	School funding adequacy (169)+	School Finance Indicators Database	2019
Income	Gender pay gap (151)		2016-2020
	Median household income (63)*	Small Area Income and Poverty Estimates	2020
	Children eligible for free or reduced price lunch (65)+	National Center for Education Statistics	2019-2020
Family and Social Support	Residential segregation - Black/White (141)	American Community Survey, 5-year estimates	2016-2020
	Residential segregation - non-white/white (142)	American Community Survey, 5-year estimates	2016-2020
	Childcare cost burden (171)	The Living Wage Calculator, Small Area Income and Poverty Estimates	2021 & 2020
	Childcare centers (172)	Homeland Infrastructure Foundation-Level Data (HIFLD)	2021
Community Safety	Homicides (15)*	National Center for Health Statistics – Mortality Files	2014-2020
	Suicides (161)*	National Center for Health Statistics – Mortality Files	2016-2020
	Firearm fatalities (148)*	National Center for Health Statistics – Mortality Files	2016-2020
	Juvenile arrests (158)+	Easy Access to State and County Juvenile Court Case Counts	2019
PHYSICAL ENVIRONMENT			
Housing and Transit	Traffic volume (156)	EJSCREEN: Environmental Justice Screening and Mapping Tool	2016-2020
	Homeownership (153)	American Community Survey, 5-year estimates	2019
	Severe housing cost burden (154)	American Community Survey, 5-year estimates	2016-2020
	Broadband access (166)	American Community Survey, 5-year estimates	2016-2020

	Measure (ID)	Data Source	Years of Data
DEMOGRAPHICS			
All	Population (51)	Census Population Estimates	2020
	% below 18 years of age (52)	Census Population Estimates	2020
	% 65 and older (53)	Census Population Estimates	2020
	% non-Hispanic Black (54)	Census Population Estimates	2020
	% American Indian & Alaska Native (55)	Census Population Estimates	2020
	% Asian (81)	Census Population Estimates	2020
	% Native Hawaiian/Other Pacific Islander (80)	Census Population Estimates	2020
	% Hispanic (56)	Census Population Estimates	2020
	% non-Hispanic white (126)	Census Population Estimates	2020
	% not proficient in English (59)	American Community Survey, 5-year estimates	2016-2020
	% female (57)	Census Population Estimates	2020
	% rural (58)	Census Population Estimates	2010

*Indicates subgroup data by race and ethnicity is available; †Data not available in all states; ‡2018 data for New Jersey.