

County Health Rankings & Roadmaps

Building a Culture of Health, County by County

A Robert Wood Johnson Foundation program

2016 County Health Rankings

Missouri



A collaboration between the Robert Wood Johnson Foundation and the University of Wisconsin Population Health Institute.



Support provided by

Robert Wood Johnson Foundation

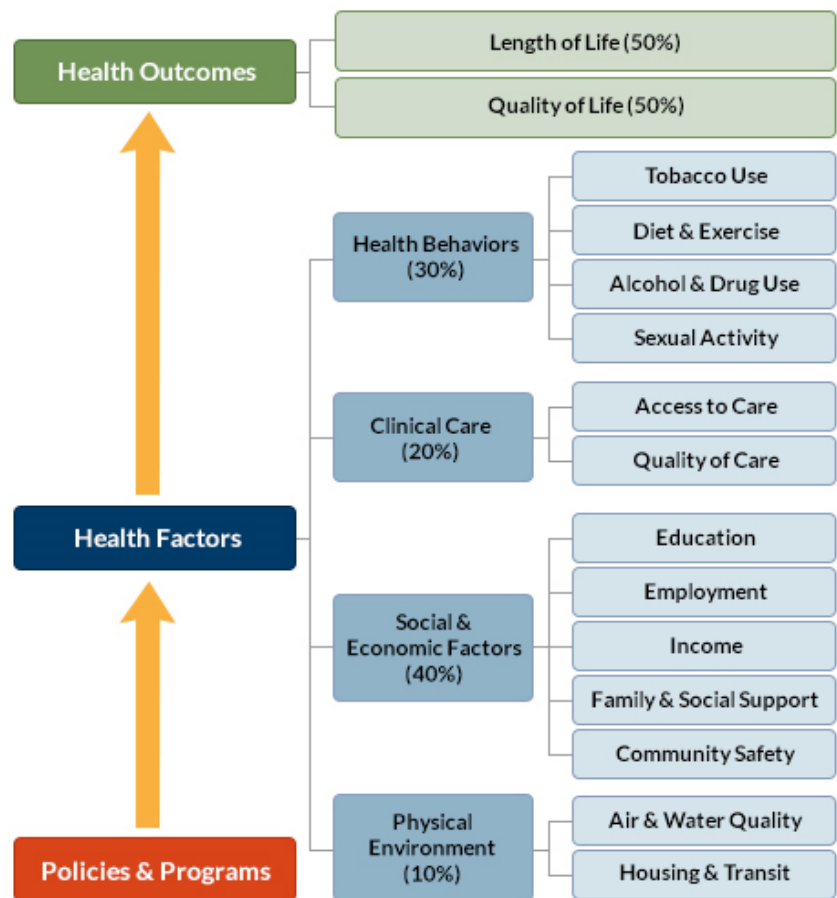


INTRODUCTION

The *County Health Rankings & Roadmaps* program brings actionable data and strategies to communities to make it easier for people to be healthy in their homes, schools, workplaces, and neighborhoods. Ranking the health of nearly every county in the nation, the *County Health Rankings* illustrate what we know when it comes to what is making people sick or healthy. The *Roadmaps* show what we can do to create healthier places to live, learn, work, and play. The Robert Wood Johnson Foundation (RWJF) collaborates with the University of Wisconsin Population Health Institute (UWPHI) to bring this program to cities, counties, and states across the nation.

WHAT ARE THE COUNTY HEALTH RANKINGS?

Published online at countyhealthrankings.org, the *Rankings* help counties understand what influences how healthy residents are and how long they will live. The *Rankings* are unique in their ability to measure the current overall health of nearly every county in all 50 states. They also look at a variety of measures that affect the future health of communities, such as high school graduation rates, access to healthy foods, rates of smoking, obesity, and teen births. Communities use the *Rankings* to help identify issues and opportunities for local health improvement, as well as to garner support for initiatives among government agencies, healthcare providers, community organizations, business leaders, policy makers, and the public.



DIGGING DEEPER INTO HEALTH DATA

Although we know that a range of factors are important for good health, every state has communities that lack both opportunities to shape good health and strong policies to promote health for everyone. Some counties lag far behind others in how well and how long people live – which we refer to as a “health gap.” Find out what’s driving health differences across your state and what can be done to close those gaps. Visit countyhealthrankings.org/reports.

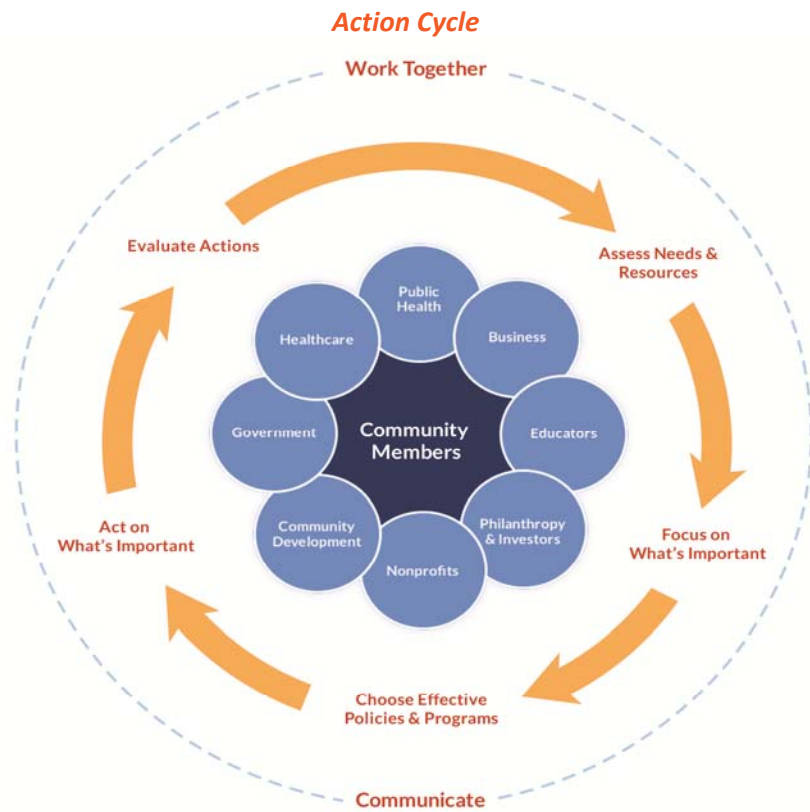
To further explore health gaps and other data sources in your community, check out the feature to [find more data](#) for your state and [dig deeper](#) on differences in health factors by geography or by population sub-groups. Visit countyhealthrankings.org/using-the-rankings-data.

MOVING FROM DATA TO ACTION

Roadmaps to Health help communities bring people together to look at the many factors that influence health and opportunities to reduce health gaps, select strategies that can improve health for all, and make changes that will have a lasting impact. The *Roadmaps* focus on helping communities move from *awareness* about their county's ranking to *actions* designed to improve everyone's health. The *Roadmaps to Health* Action Center is a one-stop shop of information to help any community member or leader who wants to improve their community's health by addressing factors that we know influence health, such as education, income, and community safety.

Within the Action Center you will find:

- Online step-by-step guidance and tools to move through the Action Cycle
- [What Works for Health](#) – a searchable database of evidence-informed policies and programs that can improve health
- Webinars featuring local community members who share their tips on how to build a healthier community
- Community coaches, located across the nation, who provide customized consultation to local leaders who request guidance in how to accelerate their efforts to improve health. You can contact a coach by activating the Get Help button at countyhealthrankings.org



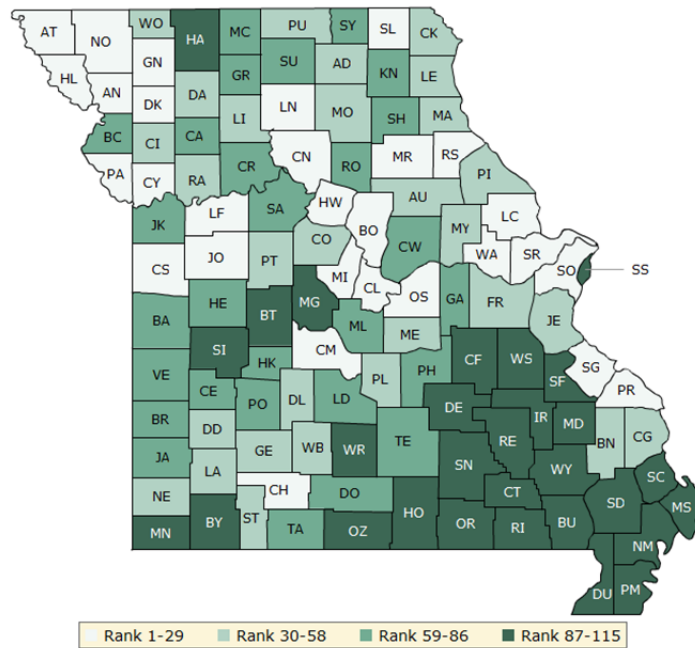
HOW CAN YOU GET INVOLVED?

You might want to contact your local affiliate of United Way Worldwide, the National Association of Counties, Local Initiatives Support Corporation (LISC), or Neighborworks— their national parent organizations have partnered with us to raise awareness and stimulate action to improve health in their local members' communities. By connecting with other leaders interested in improving health, you can make a difference in your community. In communities large and small, people from all walks of life are taking ownership and action to improve health. Visit countyhealthrankings.org to get ideas and guidance on how you can take action in your community. Working with others, you can improve the health of your community.

HOW DO COUNTIES RANK FOR HEALTH OUTCOMES?

The green map below shows the distribution of Missouri’s **health outcomes**, based on an equal weighting of length and quality of life.

Lighter shades indicate better performance in the respective summary rankings. Detailed information on the underlying measures is available at countyhealthrankings.org.

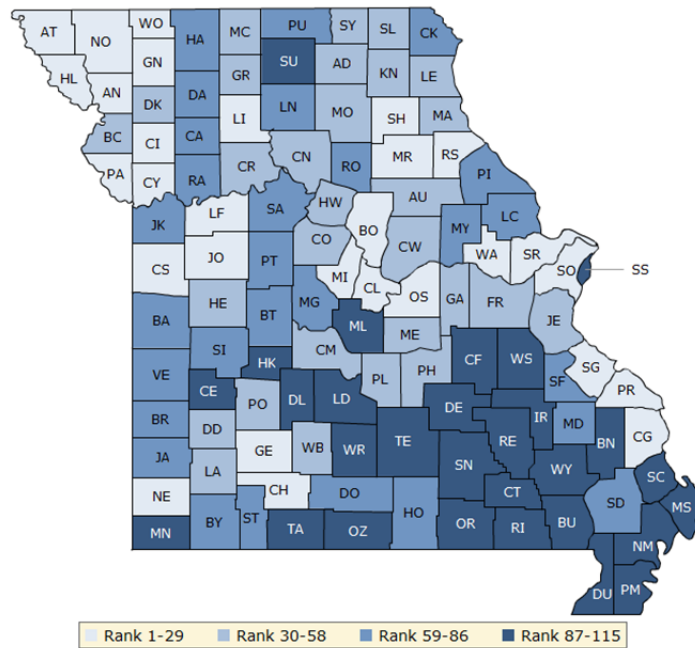


County	Rank	County	Rank	County	Rank	County	Rank
Adair	52	Dallas	43	Livingston	34	Randolph	65
Andrew	11	Daviess	38	Macon	41	Ray	58
Atchison	17	DeKalb	22	Madison	101	Reynolds	103
Audrain	39	Dent	94	Maries	30	Ripley	109
Barry	90	Douglas	86	Marion	54	Saline	67
Barton	69	Dunklin	114	McDonald	104	Schuyler	70
Bates	83	Franklin	35	Mercer	79	Scotland	19
Benton	87	Gasconade	72	Miller	59	Scott	102
Bollinger	50	Gentry	15	Mississippi	112	Shannon	99
Boone	14	Greene	36	Moniteau	6	Shelby	85
Buchanan	73	Grundy	61	Monroe	21	St. Charles	1
Butler	106	Harrison	89	Montgomery	44	St. Clair	92
Caldwell	66	Henry	71	Morgan	88	St. Francois	95
Callaway	62	Hickory	82	New Madrid	113	St. Louis	20
Camden	23	Holt	28	Newton	47	St. Louis City	111
Cape Girardeau	37	Howard	27	Nodaway	12	Ste. Genevieve	26
Carroll	68	Howell	97	Oregon	108	Stoddard	91
Carter	110	Iron	96	Osage	13	Stone	42
Cass	7	Jackson	74	Ozark	98	Sullivan	63
Cedar	80	Jasper	76	Pemiscot	115	Taney	60
Chariton	25	Jefferson	33	Perry	5	Texas	84
Christian	3	Johnson	8	Pettis	51	Vernon	64
Clark	45	Knox	75	Phelps	77	Warren	10
Clay	4	Laclede	81	Pike	57	Washington	107
Clinton	40	Lafayette	9	Platte	2	Wayne	105
Cole	18	Lawrence	53	Polk	78	Webster	32
Cooper	56	Lewis	31	Pulaski	48	Worth	49
Crawford	93	Lincoln	24	Putnam	46	Wright	100
Dade	55	Linn	29	Ralls	16		

HOW DO COUNTIES RANK FOR HEALTH FACTORS?

The blue map displays Missouri’s summary ranks for **health factors**, based on weighted scores for health behaviors, clinical care, social and economic factors, and the physical environment.

Lighter shades indicate better performance in the respective summary rankings. Detailed information on the underlying measures is available at countyhealthrankings.org



County	Rank	County	Rank	County	Rank	County	Rank
Adair	42	Dallas	96	Livingston	25	Randolph	73
Andrew	6	Daviess	84	Macon	35	Ray	59
Atchison	13	DeKalb	52	Madison	78	Reynolds	102
Audrain	53	Dent	100	Maries	57	Ripley	108
Barry	64	Douglas	82	Marion	45	Saline	62
Barton	70	Dunklin	111	McDonald	103	Schuyler	58
Bates	85	Franklin	38	Mercer	30	Scotland	46
Benton	77	Gasconade	31	Miller	92	Scott	97
Bollinger	93	Gentry	21	Mississippi	112	Shannon	110
Boone	7	Greene	14	Moniteau	22	Shelby	29
Buchanan	47	Grundy	43	Monroe	27	St. Charles	1
Butler	94	Harrison	74	Montgomery	61	St. Clair	83
Caldwell	63	Henry	50	Morgan	81	St. Francois	86
Callaway	39	Hickory	95	New Madrid	109	St. Louis	3
Camden	33	Holt	12	Newton	28	St. Louis City	114
Cape Girardeau	16	Howard	49	Nodaway	24	Ste. Genevieve	20
Carroll	56	Howell	66	Oregon	101	Stoddard	71
Carter	107	Iron	104	Osage	4	Stone	75
Cass	10	Jackson	69	Ozark	105	Sullivan	90
Cedar	89	Jasper	68	Pemiscot	115	Taney	87
Chariton	37	Jefferson	34	Perry	15	Texas	99
Christian	8	Johnson	18	Pettis	79	Vernon	67
Clark	72	Knox	41	Phelps	48	Warren	23
Clay	5	Laclede	88	Pike	80	Washington	113
Clinton	26	Lafayette	19	Platte	2	Wayne	106
Cole	11	Lawrence	36	Polk	51	Webster	55
Cooper	32	Lewis	40	Pulaski	44	Worth	9
Crawford	98	Lincoln	65	Putnam	60	Wright	91
Dade	54	Linn	76	Ralls	17		

2016 COUNTY HEALTH RANKINGS: MEASURES AND NATIONAL/STATE RESULTS

Measure	Description	US Median	State Overall	State Minimum	State Maximum
HEALTH OUTCOMES					
Premature death	Years of potential life lost before age 75 per 100,000 population	7,700	7,700	5,000	16,200
Poor or fair health	% of adults reporting fair or poor health	16%	16%	12%	27%
Poor physical health days	Average # of physically unhealthy days reported in past 30 days	3.7	4.1	3.4	5.2
Poor mental health days	Average # of mentally unhealthy days reported in past 30 days	3.7	3.7	3.4	4.5
Low birthweight	% of live births with low birthweight (< 2500 grams)	8%	8%	4%	14%
HEALTH FACTORS					
HEALTH BEHAVIORS					
Adult smoking	% of adults who are current smokers	18%	21%	16%	27%
Adult obesity	% of adults that report a BMI ≥ 30	31%	31%	27%	39%
Food environment index	Index of factors that contribute to a healthy food environment, (0-10)	7.2	6.9	4.0	8.0
Physical inactivity	% of adults aged 20 and over reporting no leisure-time physical activity	28%	26%	20%	38%
Access to exercise opportunities	% of population with adequate access to locations for physical activity	62%	76%	4%	99%
Excessive drinking	% of adults reporting binge or heavy drinking	17%	16%	12%	20%
Alcohol-impaired driving deaths	% of driving deaths with alcohol involvement	31%	33%	0%	100%
Sexually transmitted infections	# of newly diagnosed chlamydia cases per 100,000 population	287.7	453.8	60.1	1,297.4
Teen births	# of births per 1,000 female population ages 15-19	40	38	11	88
CLINICAL CARE					
Uninsured	% of population under age 65 without health insurance	17%	15%	10%	25%
Primary care physicians	Ratio of population to primary care physicians	1,990:1	1,420:1	13,690:1	750:1
Dentists	Ratio of population to dentists	2,590:1	1,870:1	3,720:0	940:1
Mental health providers	Ratio of population to mental health providers	1,060:1	600:1	17,380:1	260:1
Preventable hospital stays	# of hospital stays for ambulatory-care sensitive conditions per 1,000 Medicare enrollees	60	59	40	139
Diabetic monitoring	% of diabetic Medicare enrollees ages 65-75 that receive HbA1c monitoring	85%	86%	68%	93%
Mammography screening	% of female Medicare enrollees ages 67-69 that receive mammography screening	61%	62%	37%	74%
SOCIAL AND ECONOMIC FACTORS					
High school graduation	% of ninth-grade cohort that graduates in four years	86%	88%	67%	98%
Some college	% of adults ages 25-44 with some post-secondary education	56%	65%	32%	80%
Unemployment	% of population aged 16 and older unemployed but seeking work	6.0%	6.1%	3.9%	9.6%
Children in poverty	% of children under age 18 in poverty	23%	21%	9%	48%
Income inequality	Ratio of household income at the 80th percentile to income at the 20th percentile	4.4	4.6	3.2	6.2
Children in single-parent households	% of children that live in a household headed by a single parent	32%	33%	16%	61%
Social associations	# of membership associations per 10,000 population	13.0	11.8	6.0	34.9
Violent crime	# of reported violent crime offenses per 100,000 population	199	452	0	1,885
Injury deaths	# of deaths due to injury per 100,000 population	74	74	42	126
PHYSICAL ENVIRONMENT					
Air pollution – particulate matter	Average daily density of fine particulate matter in micrograms per cubic meter (PM2.5)	11.9	10.2	8.3	13.3
Drinking water violations	Indicator of the presence of health-related drinking water violations. Yes - indicates the presence of a violation, No - indicates no violation.	NA	NA	No	Yes
Severe housing problems	% of households with overcrowding, high housing costs, or lack of kitchen or plumbing facilities	14%	15%	4%	23%
Driving alone to work	% of workforce that drives alone to work	80%	82%	53%	87%
Long commute – driving alone	Among workers who commute in their car alone, % commuting > 30 minutes	29%	30%	12%	61%

2016 COUNTY HEALTH RANKINGS: DATA SOURCES AND YEARS OF DATA

	Measure	Data Source	Years of Data
HEALTH OUTCOMES			
Length of Life	Premature death	National Center for Health Statistics – Mortality files	2011-2013
Quality of Life	Poor or fair health	Behavioral Risk Factor Surveillance System	2014
	Poor physical health days	Behavioral Risk Factor Surveillance System	2014
	Poor mental health days	Behavioral Risk Factor Surveillance System	2014
	Low birthweight	National Center for Health Statistics – Natality files	2007-2013
HEALTH FACTORS			
HEALTH BEHAVIORS			
Tobacco Use	Adult smoking	Behavioral Risk Factor Surveillance System	2014
Diet and Exercise	Adult obesity	CDC Diabetes Interactive Atlas	2012
	Food environment index	USDA Food Environment Atlas, Map the Meal Gap	2013
	Physical inactivity	CDC Diabetes Interactive Atlas	2012
	Access to exercise opportunities	Business Analyst, Delorme map data, ESRI, & US Census Tigerline Files	2010 & 2014
Alcohol and Drug Use	Excessive drinking	Behavioral Risk Factor Surveillance System	2014
	Alcohol-impaired driving deaths	Fatality Analysis Reporting System	2010-2014
Sexual Activity	Sexually transmitted infections	National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention	2013
	Teen births	National Center for Health Statistics - Natality files	2007-2013
CLINICAL CARE			
Access to Care	Uninsured	Small Area Health Insurance Estimates	2013
	Primary care physicians	Area Health Resource File/American Medical Association	2013
	Dentists	Area Health Resource File/National Provider Identification file	2014
	Mental health providers	CMS, National Provider Identification file	2015
Quality of Care	Preventable hospital stays	Dartmouth Atlas of Health Care	2013
	Diabetic monitoring	Dartmouth Atlas of Health Care	2013
	Mammography screening	Dartmouth Atlas of Health Care	2013
SOCIAL AND ECONOMIC FACTORS			
Education	High school graduation	EDFacts	2012-2013
	Some college	American Community Survey	2010-2014
Employment	Unemployment	Bureau of Labor Statistics	2014
Income	Children in poverty	Small Area Income and Poverty Estimates	2014
	Income inequality	American Community Survey	2010-2014
Family and Social Support	Children in single-parent households	American Community Survey	2010-2014
	Social associations	County Business Patterns	2013
Community Safety	Violent crime	Uniform Crime Reporting – FBI	2010-2012
	Injury deaths	CDC WONDER mortality data	2009-2013
PHYSICAL ENVIRONMENT			
Air and Water Quality	Air pollution - particulate matter ¹	CDC WONDER environmental data	2011
	Drinking water violations	Safe Drinking Water Information System	FY2013-14
Housing and Transit	Severe housing problems	Comprehensive Housing Affordability Strategy (CHAS) data	2008-2012
	Driving alone to work	American Community Survey	2010-2014
	Long commute – driving alone	American Community Survey	2010-2014

¹ Not available for AK and HI.

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Suggested citation: University of Wisconsin Population Health Institute. *County Health Rankings 2016*

This publication would not have been possible without the following contributions:

Data

Centers for Disease Control and Prevention: National Center for Health Statistics and National Center for Chronic Disease and Health Promotion
Dartmouth Institute for Health Policy & Clinical Practice

Research Assistance

Paige Andrews
Kathryn Hatchell
Keith Gennuso, PhD
Hyojun Park, MA
Elizabeth Pollock
Jennifer Robinson
Matthew Rodock, MPH

Communications and Outreach

Burness
Mary Bennett, MFA
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Kitty Jerome, MA
Kate Konkle, MPH
Jan O'Neill, MPA

Design

Forum One, Alexandria, VA

Robert Wood Johnson Foundation

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