



County Health Rankings

Mobilizing Action Toward Community Health

2010

Missouri



Robert Wood Johnson Foundation



UNIVERSITY OF WISCONSIN

Population Health Institute

Translating Research into Policy and Practice

Introduction

Where we live matters to our health. The health of a community depends on many different factors, including quality of health care, individual behavior, education and jobs, and the environment. We can improve a community's health through programs and policies. For example, people who live in communities with ample park and recreation space are more likely to exercise, which reduces heart disease risk. People who live in communities with smoke-free laws are less likely to smoke or to be exposed to second-hand smoke, which reduces lung cancer risk.

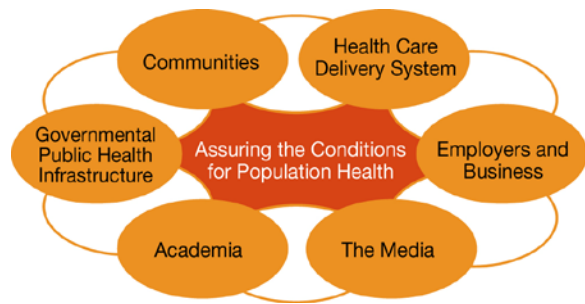
The problem is that there are big differences in health across communities, with some places being much healthier than others. And up to now, it has been hard to get a standard way to measure how healthy a county is and see where they can improve.

The Robert Wood Johnson Foundation and the University of Wisconsin Population Health Institute are pleased to present the 2010 *County Health Rankings*, a collection of 50 reports that reflect the overall health of counties in every state across the country. For the first time, counties can get a snapshot of how healthy their residents are by comparing their overall health and the factors that influence their health, with other counties in their state. This will allow them to see county-to-county where they are doing well and where they need to improve. Everyone has a stake in community health. We all need to work together to find solutions. The *County Health Rankings* serve as both a call to action and a needed tool in this effort.

All of the *County Health Rankings* are based upon this model of population health improvement:



In this model, health outcomes are measures that describe the current health status of a county. These health outcomes are influenced by a set of health factors. These health factors and their outcomes may also be affected by community-based programs and policies designed to alter their distribution in the community. Counties can improve health outcomes by addressing all health factors with effective, evidence-based programs and policies.



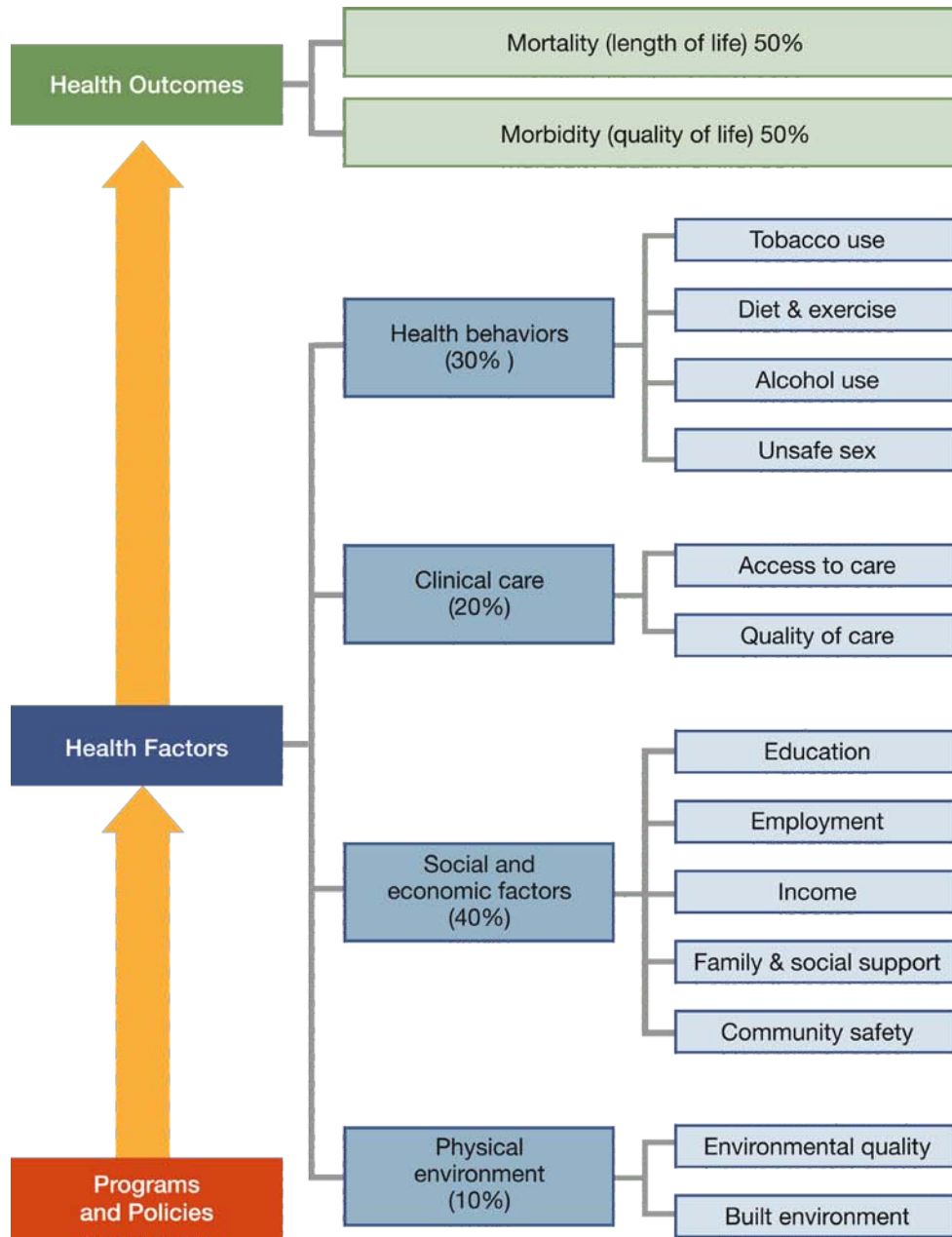
Institute of Medicine, 2002

To compile the *Rankings*, we built on our prior work in Wisconsin, worked closely with staff from the Centers for Disease Control and Prevention and Dartmouth College, and obtained input from a team of expert advisors. Together we selected a number of population health measures based on scientific relevance, importance, and availability of data at the county level. For a more detailed explanation of the choice of measures, see www.countyhealthrankings.org.

The Rankings

This report ranks Missouri counties according to their summary measures of **health outcomes** and **health factors**, as well as the components used to create each summary measure. The figure below depicts the structure of the *Rankings* model. Counties receive a rank for each population health component; those having high ranks (e.g., 1 or 2) are estimated to be the “healthiest.”

Our summary **health outcomes** rankings are based on an equal weighting of mortality and morbidity measures. The summary health **factors** rankings are based on weighted scores of four types of factors: behavioral, clinical, social and economic, and environmental. The weights for the factors (shown in parentheses in the figure) are based upon a review of the literature and expert input, but represent just one way of combining these factors.

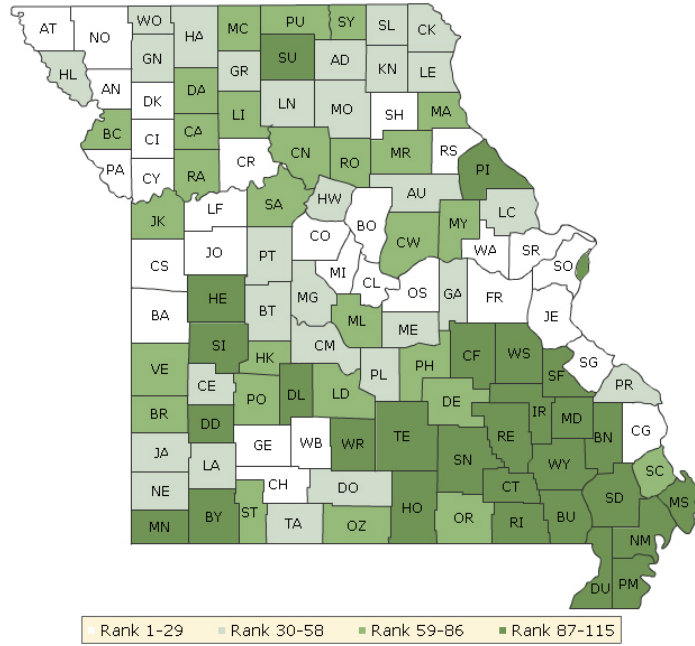


County Health Rankings model ©2010 UWPHI

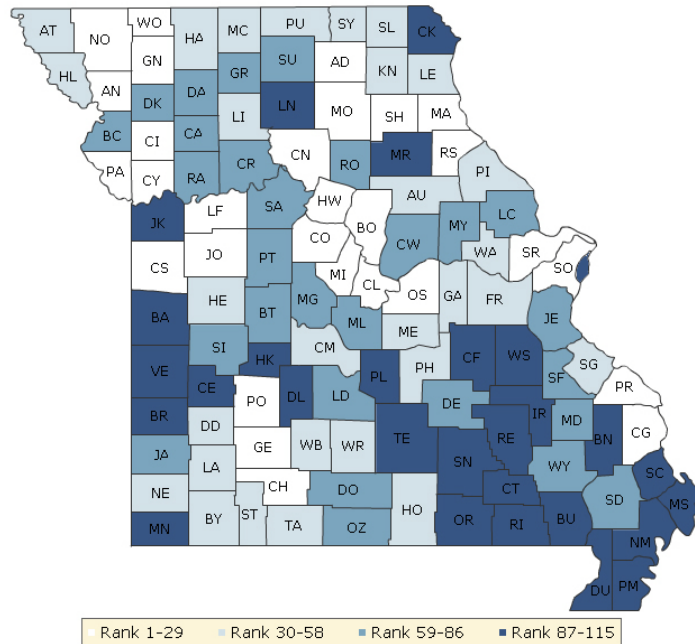
The maps on this page display Missouri's counties divided into groups by health rank. The lighter colors indicate better performance in the respective summary rankings. The green map shows the distribution of summary health outcomes. The blue displays the distribution of the summary rank for health factors.

Maps help locate the healthiest and least healthy counties in the state. The health factors map appears similar to the health outcomes map, showing how health factors and health outcomes are closely related.

HEALTH OUTCOMES



HEALTH FACTORS



Summary Health Outcomes & Health Factors Rankings

Counties receive two summary ranks:

- Health Outcomes
- Health Factors

Each of these ranks represents a weighted summary of a number of measures.

Health outcomes represent how healthy a county is while health factors are what influences the health of the county.

Rank	Health Outcomes	Rank	Health Factors
1	Platte	1	St. Charles
2	St. Charles	2	Boone
3	Christian	3	Platte
4	Johnson	4	Christian
5	Osage	5	Nodaway
6	Nodaway	6	St. Louis
7	DeKalb	7	Cole
8	Clay	8	Cape Girardeau
9	Moniteau	9	Andrew
10	Cass	10	Greene
11	Atchison	11	Perry
12	Ralls	12	Clay
13	Boone	13	Cass
14	Cole	14	Shelby
15	Ste. Genevieve	15	Osage
16	Lafayette	16	Worth
17	Cape Girardeau	17	Polk
18	St. Louis	18	Ralls
19	Franklin	19	Adair
20	Shelby	20	Chariton
21	Andrew	21	Macon
22	Cooper	22	Cooper
23	Clinton	23	Moniteau
24	Carroll	24	Johnson
25	Warren	25	Lafayette
26	Bates	26	Marion
27	Webster	27	Gentry
28	Jefferson	28	Howard
29	Greene	29	Clinton
30	Newton	30	Knox
31	Jasper	31	Webster
32	Grundy	32	Franklin
33	Knox	33	Atchison
34	Howard	34	Lawrence
35	Camden	35	Newton
36	Benton	36	Camden
37	Perry	37	Scotland
38	Lincoln	38	Phelps
39	Holt	39	Holt
40	Scotland	40	Lewis

Rank	Health Outcomes	Rank	Health Factors
41	Cedar	41	Warren
42	Pettis	42	Mercer
43	Gasconade	43	Barry
44	Linn	44	Gasconade
45	Maries	45	Livingston
46	Worth	46	Audrain
47	Harrison	47	Harrison
48	Lewis	48	Schuyler
49	Morgan	49	Putnam
50	Gentry	50	Ste. Genevieve
51	Clark	51	Howell
52	Pulaski	52	Wright
53	Lawrence	53	Stone
54	Adair	54	Pike
55	Taney	55	Taney
56	Macon	56	Maries
57	Audrain	57	Dade
58	Douglas	58	Henry
59	Buchanan	59	Pettis
60	Schuyler	60	Montgomery
61	Barton	61	Ozark
62	Chariton	62	Callaway
63	Laclede	63	Jasper
64	Jackson	64	Saline
65	Mercer	65	Grundy
66	Hickory	66	DeKalb
67	Saline	67	Jefferson
68	Montgomery	68	Stoddard
69	Miller	69	Buchanan
70	Dent	70	Madison
71	Ray	71	Randolph
72	Callaway	72	Morgan
73	Monroe	73	Miller
74	Putnam	74	Sullivan
75	Daviess	75	Laclede
76	Marion	76	Carroll
77	Phelps	77	Benton
78	Ozark	78	Douglas
79	Randolph	79	Daviess
80	Oregon	80	Dent
81	Polk	81	Ray
82	Livingston	82	St. Clair
83	Caldwell	83	Lincoln
84	Scott	84	Wayne
85	Stone	85	St. Francois
86	Vernon	86	Caldwell
87	Dallas	87	Vernon
88	Pike	88	Bollinger
89	McDonald	89	Pulaski
90	Sullivan	90	Monroe

Rank	Health Outcomes	Rank	Health Factors
91	Dade	91	Cedar
92	Henry	92	Linn
93	St. Francois	93	Barton
94	Howell	94	Clark
95	Stoddard	95	Oregon
96	Bollinger	96	Texas
97	Shannon	97	Jackson
98	Crawford	98	Iron
99	St. Clair	99	McDonald
100	Wright	100	Crawford
101	Madison	101	Bates
102	Barry	102	Hickory
103	Texas	103	Scott
104	Iron	104	Shannon
105	Carter	105	Dallas
106	St. Louis City	106	Reynolds
107	Wayne	107	Butler
108	Mississippi	108	Carter
109	Butler	109	Ripley
110	Washington	110	New Madrid
111	New Madrid	111	Mississippi
112	Reynolds	112	Dunklin
113	Ripley	113	Washington
114	Dunklin	114	Pemiscot
115	Pemiscot	115	St. Louis City

Health Outcomes Rankings

The summary health outcomes ranking is based on measures of mortality and morbidity. Each county's ranks for mortality and morbidity are displayed here. The mortality rank, representing length of life, is based on a measure of premature death: the years of potential life lost prior to age 75.

The morbidity rank is based on measures that represent health-related quality of life and birth outcomes. We combine four morbidity measures: self-reported fair or poor health, poor physical health days, poor mental health days, and the percent of births with low birthweight.

Rank	Mortality	Rank	Morbidity
1	St. Charles	1	Christian
2	Platte	2	Lafayette
3	Johnson	3	Moniteau
4	Osage	4	Platte
5	Boone	5	DeKalb
6	Nodaway	6	St. Charles
7	Christian	7	Andrew
8	Cape Girardeau	8	Atchison
9	Clay	9	Osage
10	Ste. Genevieve	10	Johnson
11	St. Louis	11	Carroll
12	Cass	12	Ralls
13	Ralls	13	Webster
14	Cole	14	Cole
15	Shelby	15	Cass
16	Atchison	16	Knox
17	DeKalb	17	Clinton
18	Cooper	18	Cedar
19	Jefferson	19	Franklin
20	Moniteau	20	Nodaway
21	Warren	21	Benton
22	Grundy	22	Jasper
23	Franklin	23	Holt
24	Lincoln	24	Scotland
25	Gasconade	25	Lewis
26	Greene	26	Morgan
27	Newton	27	Clay
28	Audrain	28	Worth
29	Bates	29	Bates
30	Pettis	30	Shelby
31	Maries	31	Cooper
32	Clinton	32	St. Louis
33	Camden	33	Ste. Genevieve
34	Howard	34	Dallas
35	Lafayette	35	Howard
36	Perry	36	Boone
37	Linn	37	Greene
38	Harrison	38	Newton
39	Carroll	39	Gentry
40	Douglas	40	Taney

Rank	Mortality	Rank	Morbidity
41	Andrew	41	Camden
42	Adair	42	Perry
43	Lawrence	43	Saline
44	Clark	44	Warren
45	Barton	45	Cape Girardeau
46	Scott	46	Linn
47	Macon	47	Buchanan
48	Webster	48	Pulaski
49	Randolph	49	Polk
50	Jasper	50	Harrison
51	Phelps	51	Jefferson
52	Pulaski	52	Ozark
53	Dent	53	Dade
54	Gentry	54	Schuyler
55	Chariton	55	McDonald
56	Putnam	56	Clark
57	Ray	57	Pettis
58	Buchanan	58	Miller
59	Oregon	59	Maries
60	Benton	60	Grundy
61	Jackson	61	Pike
62	Laclede	62	Macon
63	Callaway	63	Laclede
64	Holt	64	Lawrence
64	Knox	65	Vernon
64	Mercer	66	Mercer
64	Schuyler	67	Jackson
64	Scotland	68	Shannon
64	Worth	69	Adair
70	Taney	70	Carter
71	Stoddard	71	Montgomery
72	Hickory	72	Hickory
73	Marion	73	Lincoln
74	Montgomery	74	Gasconade
75	Daviess	75	Chariton
76	Monroe	76	Douglas
77	Morgan	77	Monroe
78	Lewis	78	Barton
79	Sullivan	79	Livingston
80	Crawford	80	Stone
81	Caldwell	81	Callaway
82	Cedar	82	Daviess
83	Miller	83	Ray
84	Livingston	84	Marion
85	Stone	85	St. Clair
86	Barry	86	Caldwell
87	Saline	87	Dent
88	Henry	88	Audrain
89	Ozark	89	Howell
90	Polk	90	Putnam

Rank	Mortality	Rank	Morbidity
91	Vernon	91	St. Francois
92	St. Francois	92	Oregon
93	Bollinger	93	Bollinger
94	Howell	94	Henry
95	Texas	95	Wright
96	Pike	96	Madison
97	St. Clair	97	Phelps
98	McDonald	98	Randolph
99	Wright	99	Sullivan
100	Madison	100	Iron
101	Dade	101	Scott
102	Shannon	102	Reynolds
103	Dallas	103	Crawford
104	Wayne	104	Stoddard
105	Iron	105	Ripley
106	New Madrid	106	St. Louis City
107	St. Louis City	107	Barry
108	Butler	108	Mississippi
109	Mississippi	109	Texas
110	Washington	110	Wayne
111	Carter	111	Dunklin
112	Pemiscot	112	Butler
113	Dunklin	113	Washington
114	Ripley	114	Pemiscot
115	Reynolds	115	New Madrid

Health Factors Rankings

The summary health factors ranking is based on four factors: health behaviors, clinical care, social and economic, and physical environment factors. In turn, each of these factors is based on several measures. Health behaviors include measures of smoking, diet and exercise, alcohol use, and risky sex behavior. Clinical

care includes measures of access to care and quality of care. Social and economic factors include measures of education, employment, income, family and social support, and community safety. The physical environment includes measures of environmental quality and the built environment.

Rank	Health Behaviors	Rank	Clinical Care	Rank	Social & Economic Factors	Rank	Physical Environment
1	St. Charles	1	Boone	1	Nodaway	1	Mercer
2	Christian	2	St. Louis	2	St. Charles	2	Ralls
3	St. Louis	3	Greene	3	Platte	3	Madison
4	Worth	4	St. Louis City	4	Boone	4	Schuyler
5	Polk	5	St. Charles	5	Andrew	5	Morgan
6	Scotland	6	Perry	6	Clay	6	Gentry
7	Shelby	7	Cape Girardeau	7	Perry	6	Maries
8	Chariton	8	Butler	8	Cole	6	St. Clair
9	Adair	9	Platte	9	Cass	9	Benton
10	Nodaway	10	Jackson	10	Christian	10	Webster
11	Morgan	11	Buchanan	11	Osage	11	Holt
12	Platte	12	Franklin	12	Mercer	12	Wright
13	Stone	13	Wright	13	Cooper	13	Miller
14	Macon	14	Clay	14	Cape Girardeau	13	Pike
15	Cole	15	Polk	15	St. Louis	15	Franklin
16	Atchison	16	Cole	16	Gentry	16	Linn
17	Boone	17	Howell	17	Shelby	16	Osage
18	Knox	18	Christian	18	Johnson	18	Marion
19	Wright	19	Taney	19	Moniteau	19	Bates
20	St. Clair	20	Barry	20	Knox	20	Pulaski
21	Ozark	21	Cass	21	Clinton	21	St. Francois
22	Greene	22	Warren	22	Ralls	22	Grundy
23	Barton	23	Scott	23	Adair	23	Johnson
24	Taney	24	Lawrence	24	Chariton	24	Caldwell
25	Douglas	25	Marion	25	Greene	25	Camden
26	Benton	26	Audrain	26	Holt	26	Monroe
27	Hickory	27	Callaway	27	Livingston	27	Atchison
28	Pettis	28	Newton	28	Lewis	28	Shannon
29	Cape Girardeau	29	Laclede	29	Ray	29	Carroll
30	Montgomery	30	Lincoln	30	Buchanan	29	Daviess
31	Lafayette	31	Cooper	31	Harrison	29	Lewis
32	Camden	32	Stone	32	DeKalb	29	Montgomery
33	Andrew	33	Howard	33	Macon	29	Shelby
34	Osage	34	Phelps	34	Pulaski	34	Warren
35	Schuyler	35	Jasper	35	Ste. Genevieve	35	Christian
36	Moniteau	36	Andrew	36	Lafayette	36	Crawford
37	Putnam	37	Webster	37	Callaway	37	Macon
38	Ralls	38	Dallas	38	Caldwell	37	Worth
39	Stoddard	39	Ste. Genevieve	39	Saline	39	Andrew
40	Gentry	40	Jefferson	40	Putnam	40	Howard

Rank	Health Behaviors	Rank	Clinical Care	Rank	Social & Economic Factors	Rank	Physical Environment
41	Carroll	41	Gasconade	41	Camden	41	Lafayette
42	Gasconade	42	Lafayette	42	Howard	42	Texas
43	Howard	43	Clinton	43	Lawrence	43	Audrain
44	Dent	44	Wayne	44	Monroe	44	Randolph
45	Phelps	45	Madison	45	Atchison	45	Henry
46	Newton	46	Crawford	46	Newton	46	Barry
47	Webster	47	Ozark	47	Marion	47	Gasconade
48	Johnson	48	St. Francois	48	Daviess	48	Callaway
49	Marion	49	Iron	49	Webster	49	Clark
50	Howell	50	Miller	50	Jefferson	49	Knox
51	Henry	51	Moniteau	51	Sullivan	51	Boone
52	Pike	52	Stoddard	52	Worth	52	DeKalb
53	Perry	53	Dent	53	Jasper	52	Sullivan
54	Ripley	54	Saline	54	Pike	54	Cass
55	Clay	55	Dade	55	Phelps	55	Cole
56	Warren	56	Harrison	56	Dade	56	Adair
57	Lawrence	57	Nodaway	57	Scotland	57	Cooper
58	Holt	58	Worth	58	Grundy	58	Cedar
59	Cedar	59	Oregon	59	Barry	59	Phelps
60	Dade	60	Henry	60	Audrain	60	Harrison
61	Crawford	61	Macon	61	Maries	61	Iron
62	Franklin	62	Ralls	62	Carroll	62	Stone
63	Clinton	63	Barton	63	Franklin	63	Vernon
64	Lewis	64	Dunklin	64	Pettis	64	Jasper
65	Livingston	65	Osage	65	Gasconade	65	Buchanan
66	Wayne	66	Vernon	66	Vernon	66	Ray
67	Texas	67	Randolph	67	Schuyler	67	Clinton
68	Audrain	68	Johnson	68	Randolph	68	Wayne
69	Cass	69	Lewis	69	Warren	69	Barton
70	Maries	70	Camden	70	Bollinger	70	Lawrence
71	Grundy	71	Maries	71	Henry	71	Livingston
72	Shannon	72	Mississippi	72	Clark	72	Douglas
73	Barry	73	Daviess	73	Polk	73	Ste. Genevieve
74	McDonald	74	Livingston	74	Bates	74	Howell
75	Laclede	75	Pulaski	75	Montgomery	75	Nodaway
76	Jefferson	76	Douglas	76	Linn	76	Saline
77	Cooper	77	DeKalb	77	Iron	77	Greene
78	Sullivan	78	Bollinger	78	Miller	78	Polk
79	Carter	79	Washington	79	Lincoln	79	Scott
80	Randolph	80	Grundy	80	Madison	80	Dent
81	Reynolds	81	Ray	81	Oregon	81	Stoddard
82	Harrison	82	Cedar	82	Howell	82	Moniteau
83	Mercer	83	Schuyler	83	Stoddard	83	Pettis
84	Clark	84	Putnam	84	Laclede	84	Hickory
85	Madison	85	Chariton	85	St. Francois	85	Newton
86	Miller	86	Caldwell	86	Ozark	86	Dallas
87	Bollinger	87	Pettis	87	McDonald	87	Cape Girardeau
88	Lincoln	88	Pike	88	Benton	88	Dade
89	Ste. Genevieve	89	Shannon	89	Dent	89	Taney
90	Bates	90	Holt	90	Taney	90	Laclede

Rank	Health Behaviors	Rank	Clinical Care	Rank	Social & Economic Factors	Rank	Physical Environment
91	St. Francois	91	Texas	91	Douglas	91	Ozark
92	Dallas	92	Morgan	92	Wayne	92	Chariton
93	Jasper	93	Monroe	93	Cedar	93	McDonald
94	Oregon	94	Atchison	94	Texas	94	Carter
95	Linn	95	New Madrid	95	St. Clair	95	Reynolds
96	DeKalb	96	Montgomery	96	Butler	96	Bollinger
97	Saline	97	Carter	97	Stone	97	Putnam
98	Jackson	98	Scotland	98	Ripley	98	Scotland
99	Vernon	99	Linn	99	Jackson	99	Dunklin
100	Mississippi	100	Adair	100	Reynolds	100	Butler
101	Scott	101	Sullivan	101	Scott	101	Washington
102	Daviess	102	McDonald	102	Wright	102	Lincoln
103	New Madrid	103	Pemiscot	103	Morgan	103	Perry
104	Ray	104	Reynolds	104	Hickory	104	Oregon
105	Callaway	105	Benton	105	Carter	105	New Madrid
106	Caldwell	106	St. Clair	106	Shannon	106	Platte
107	Iron	107	Hickory	107	Barton	107	Jackson
108	Monroe	108	Shelby	108	Dallas	108	Clay
109	Pulaski	109	Knox	109	Crawford	109	Mississippi
110	Pemiscot	110	Gentry	110	New Madrid	110	Jefferson
111	Buchanan	111	Clark	111	Dunklin	111	St. Charles
112	Butler	112	Carroll	112	Washington	112	Ripley
113	St. Louis City	113	Mercer	113	Mississippi	113	Pemiscot
114	Washington	114	Ripley	114	Pemiscot	114	St. Louis
115	Dunklin	115	Bates	115	St. Louis City	115	St. Louis City

2010 County Health Rankings: Measures, Data Sources, and Years of Data

	Measure	Data Source	Years of Data
HEALTH OUTCOMES			
Mortality	Premature death	National Center for Health Statistics	2004-2006
Morbidity	Poor or fair health	Behavioral Risk Factor Surveillance System	2002-2008
	Poor physical health days	Behavioral Risk Factor Surveillance System	2002-2008
	Poor mental health days	Behavioral Risk Factor Surveillance System	2002-2008
	Low birthweight	National Center for Health Statistics	2000-2006
HEALTH FACTORS			
HEALTH BEHAVIORS			
Tobacco	Adult smoking	Behavioral Risk Factor Surveillance System	2002-2008
Diet and Exercise	Adult obesity	National Center for Chronic Disease Prevention and Health Promotion	2006-2008
Alcohol Use	Binge drinking	Behavioral Risk Factor Surveillance System	2002-2008
	Motor vehicle crash death rate	National Center for Health Statistics	2000-2006
High Risk Sexual Behavior	Chlamydia rate	National Center for Health Statistics	2006
	Teen birth rate	National Center for Health Statistics	2000-2006
CLINICAL CARE			
Access to Care	Uninsured adults	Small Area Health Insurance Estimates, U.S. Census	2005
	Primary care provider rate	Health Resources & Services Administration	2006
Quality of Care	Preventable hospital stays	Medicare/Dartmouth Institute	2005-2006
	Diabetic screening	Medicare/Dartmouth Institute	2003-2006
	Hospice use	Medicare/Dartmouth Institute	2001-2005
SOCIOECONOMIC FACTORS			
Education	High school graduation	National Center for Education Statistics ¹	2005-2006
	College degrees	U.S. Census/American Community Survey	2000/2005-2007
Employment	Unemployment	Bureau of Labor Statistics	2008
Income	Children in poverty	Small Area Income and Poverty Estimates, U.S. Census	2007
	Income inequality	U.S. Census/American Community Survey ²	2000/2005-2007
Family and Social Support	Inadequate social support	Behavioral Risk Factor Surveillance System	2005-2008
	Single-parent households	U.S. Census/American Community Survey	2000/2005-2007
Community Safety	Violent crime ³	Uniform Crime Reporting, Federal Bureau of Investigation	2005-2007
PHYSICAL ENVIRONMENT			
Air Quality ⁴	Air pollution-particulate matter days	U.S. Environmental Protection Agency / Centers for Disease Control and Prevention	2005
	Air pollution-ozone days	U.S. Environmental Protection Agency / Centers for Disease Control and Prevention	2005
Built Environment	Access to healthy foods	Census Zip Code Business Patterns	2006
	Liquor store density	Census County Business Patterns	2006

¹ State data sources for KY, NH, NC, PA, SC, and UT (2007-2008).

² Income inequality estimates for 2000 were calculated by Mark L. Burkey, North Carolina Agricultural & Technical State University, www.ncat.edu/~burkeym/Gini.htm.

³ Homicide rate (2000-2006) from National Center for Health Statistics for AK, AZ, AR, CO, CT, GA, ID, IN, IA, KS, KY, LA, MN, MS, MT, NE, NH, NM, NC, ND, OH, SD, UT, and WV. State data source for IL.

⁴ Not available for AK and HI.

CREDITS

Report Editors

University of Wisconsin-Madison
School of Medicine and Public Health
Population Health Institute
Bridget Booske, PhD, MHSA
Jessica Athens, MS
Patrick Remington, MD, MPH

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

Conceptual Development

David Kindig, MD, PhD
Paul Peppard, PhD
Patrick Remington, MD, MPH

Technical Advisors

Amy Bernstein, ScD, Centers for Disease Control and Prevention
Michele Bohm, MPH, Centers for Disease Control and Prevention
Vickie Boothe, MPH, Centers for Disease Control and Prevention
Ethan Burke, MD, MPH, Dartmouth Institute for Health Policy and Clinical Practice

Research Assistance

Clare O'Connor
Karen Odegaard
Hyojun Park
Matthew Rodock

Production and Editing

Chuck Alexander
Alex Field
Joan Fischer
Irene Golembiewski
Jennifer Robinson

Design

Forum One, Alexandria, VA
Media Solutions, UW School of Medicine and Public Health

Metrics Advisory Group

Yukiko Asada, PhD, Associate Professor, Community Health and Epidemiology, Dalhousie University, Halifax, Nova Scotia
Tom Eckstein, MBA, Principal, Arundel Street Consulting Inc, St. Paul, MN
Elliott Fisher, MD, MPH, Director, Center for Population Health, Dartmouth Institute for Health Policy and Clinical Practice, and
Professor of Medicine and Community and Family Medicine, Dartmouth Medical School, Lebanon, NH.
Howard Frumkin, MD, MPH, Dr. PH, Director of the National Center for Environmental Health, ATSDR, CDC, Atlanta, GA
Thomas Kottke, MD, MSPH, Medical Director for Evidence-Based Health, HealthPartners, Minneapolis, MN
Ali Mokdad, PhD, Professor of Global Health, Institute for Health Metrics and Evaluation, University of Washington, Seattle, WA.
Roy Gibson Parrish, MD, Consultant in Population Health Information Systems, Peacham, VT
Robert M. (Bobby) Pestronk, MPH, Executive Director, National Association of County and City Health Officials (NACCHO),
Washington DC.
Tom Ricketts, PhD, Professor of Health Policy and Administration, University of North Carolina
Steven Teutsch, MD, MPH, Chief Science Officer, Los Angeles County Public Health, Los Angeles, CA.
Julie Willems Van Dijk, PhD, RN, former Marathon County, WI Health Officer

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County Health Rankings

Mobilizing Action Toward Community Health

countyhealthrankings.org

