

County Health Rankings & Roadmaps

A Healthier Nation, County by County

2012 *Rankings* **Kentucky**



Robert Wood Johnson Foundation



UNIVERSITY OF WISCONSIN

Population Health Institute

Translating Research into Policy and Practice

Introduction

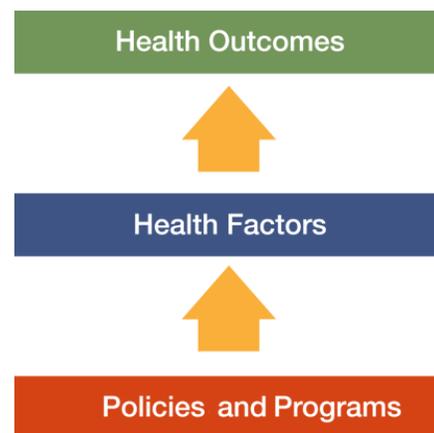
Where we live matters to our health. The health of a community depends on many different factors, including the environment, education and jobs, access to and quality of healthcare, and individual behaviors. We can improve a community's health by implementing effective policies and programs. For example, 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. In addition, people who live in communities with safe and accessible park and recreation space are more likely to exercise, which reduces heart disease risk.

However, health varies greatly across communities, with some places being much healthier than others. And, until now, there has been no standard method to illustrate what we know about what makes people sick or healthy or a central resource to identify what we can do to create healthier places to live, learn, work and play.

We know that much of what influences our health happens outside of the doctor's office – in our schools, workplaces and neighborhoods. The *County Health Rankings & Roadmaps* program provides information on the overall health of your community and provides the tools necessary to create community-based, evidence-informed solutions. Ranking the health of nearly every county across the nation, the *County Health Rankings* illustrate **what we know** when it comes to what is making communities sick or healthy. The *County Health Roadmaps* show **what we can do** to create healthier places to live, learn, work and play. The Robert Wood Johnson Foundation collaborates with the University of Wisconsin

Population Health Institute to bring this groundbreaking program to counties and states across the nation.

The *County Health Rankings & Roadmaps* program includes the *County Health Rankings* project, launched in 2010, and the newer *Roadmaps* project that mobilizes local communities, national partners and leaders across all sectors to improve health. The program is based on 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. Counties can improve health outcomes by addressing all health factors with effective, evidence-informed policies and programs.

Everyone has a stake in community health. We all need to work together to find solutions. The *County Health Rankings & Roadmaps* serve as both a call to action and a needed tool in this effort.

Guide to Our Web Site

To compile the *Rankings*, we selected measures that reflect important aspects of population health that can be improved and are available at the county level across the nation. Visit www.countyhealthrankings.org to learn more.

To get started and see data, enter your county or state name in the search box. Click on the name of a county or measure to see more details. You can: Compare Counties; Download data for your state; Print one or more county

snapshots; or Share information with others via Facebook, Twitter, or Google+. To understand our methods, click on Learn about the Data and Methods. To learn about steps that you can take to improve health in your community, click on the *Roadmaps* tab. The *Roadmaps to Health Action Center* provides tools and resources to help groups working together to create healthier places. The Opportunities section provides information on funding, recognition, and partnership opportunities. The Connections section helps you learn what others are doing.

County Health Roadmaps

The *Rankings* illustrate **what we know** when it comes to making people sick or healthy. The *County Health Rankings* confirm the critical role that factors such as education, jobs, income and the environment play in how healthy people are and how long we live.

This report introduces the *County Health Roadmaps*, a new partnership that mobilizes local communities, national partners and leaders across all sectors to improve health. The *County Health Roadmaps* show **what we can do** to create healthier places to live, learn, work and play. The Robert Wood Johnson Foundation collaborates with the University of Wisconsin Population Health Institute to bring this groundbreaking project to cities, counties and states across the nation.

The *Roadmaps* project includes grants to local coalitions and partnerships among policymakers, business, education, public health, health care, and community organizations; grants to national organizations working to improve health; recognition of communities whose promising efforts have led to better health; and customized technical assistance on strategies to improve health.

Roadmaps to Health Community Grants

The *Roadmaps to Health* Community Grants provide funding for 2 years to state and local efforts among policymakers, business, education, healthcare, public health and community organizations working to create positive policy or systems changes that address the social and economic factors that influence the health of people in their community.

Roadmaps to Health Partner Grants

The Robert Wood Johnson Foundation is awarding *Roadmaps to Health* Partner Grants to national organizations that are experienced at engaging local partners and leaders and are able to deliver high-quality training and technical assistance, and committed to making communities healthier places to live, learn, work and play. Partner grantees increase awareness about the *County Health Rankings & Roadmaps* to their members, affiliates and allies. The first Partner Grant was awarded to United Way Worldwide (UWW) in July 2011.

Roadmaps to Health Prize

The Robert Wood Johnson Foundation and the University of Wisconsin Population Health Institute will award *Roadmaps to Health* Prizes of \$25,000 to up to six communities that are working to become healthier places to live, learn, work and play. The *Roadmaps to Health* Prize is intended not only to honor successful efforts, but also to inspire and stimulate similar activities in other U.S. communities.



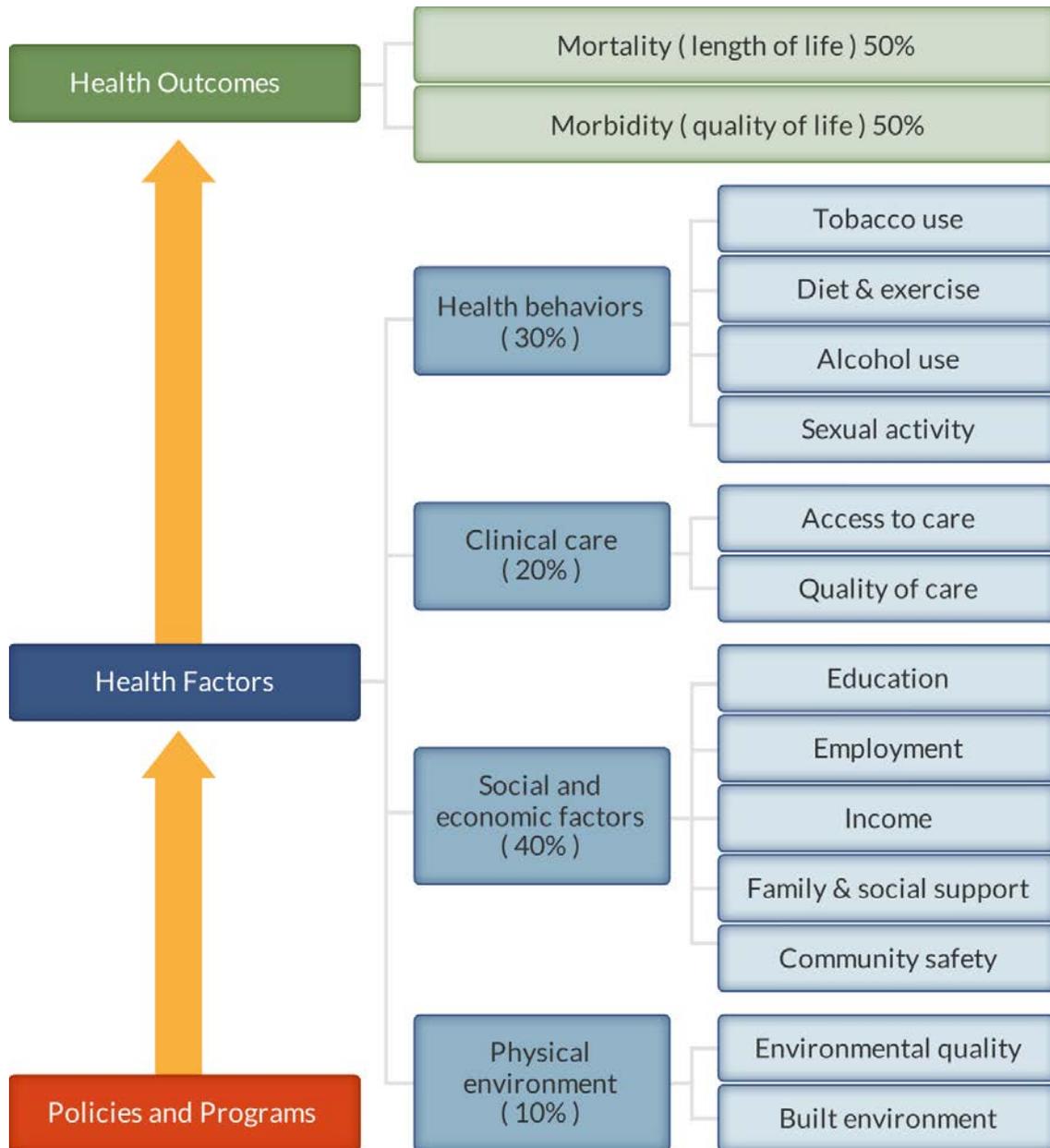
Roadmaps to Health Action Center

The *Roadmaps to Health* Action Center, based at the University of Wisconsin Population Health Institute, provides tools and resources to help groups working to make their communities healthier places. The new Action Center will provide guidance on developing strategies and advocacy efforts to advance pro-health policies, offer opportunities for ongoing learning, and in the summer of 2012, host a searchable database of evidence-informed policies and programs focused on health improvement. Experts provide customized consultation to local communities who have demonstrated the willingness and capacity to address factors that we know influence how healthy a person is, such as education, income and family connectedness.

County Health Rankings

The 2012 *County Health Rankings* report ranks Kentucky counties according to their summary measures of **health outcomes** and **health factors**. Counties also receive a rank for mortality, morbidity, health behaviors, clinical care, social and economic factors, and the physical environment. The figure below depicts the structure of the *Rankings* model; 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.

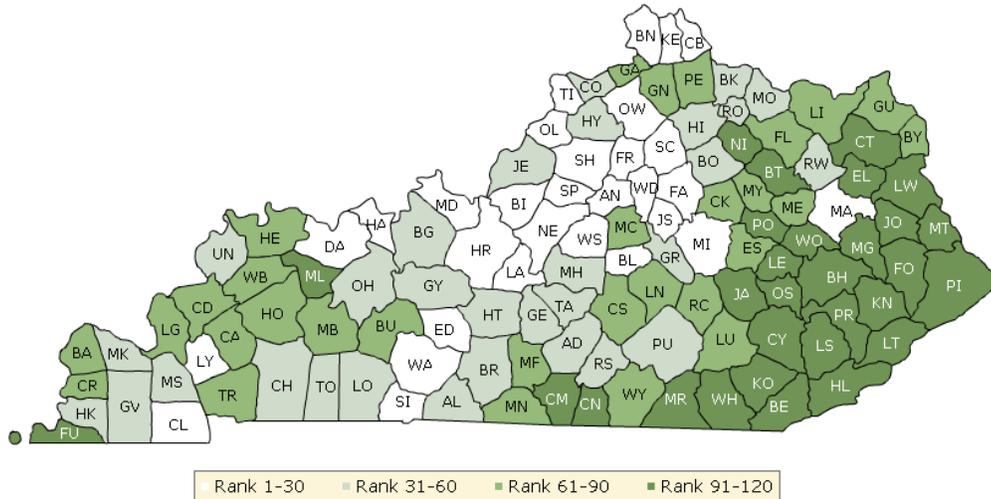


County Health Rankings model ©2012 UWPHI

The maps on this page and the next display Kentucky's counties divided into groups by health rank. Maps help locate the healthiest and least healthy counties in the state. The lighter colors indicate better performance in the respective

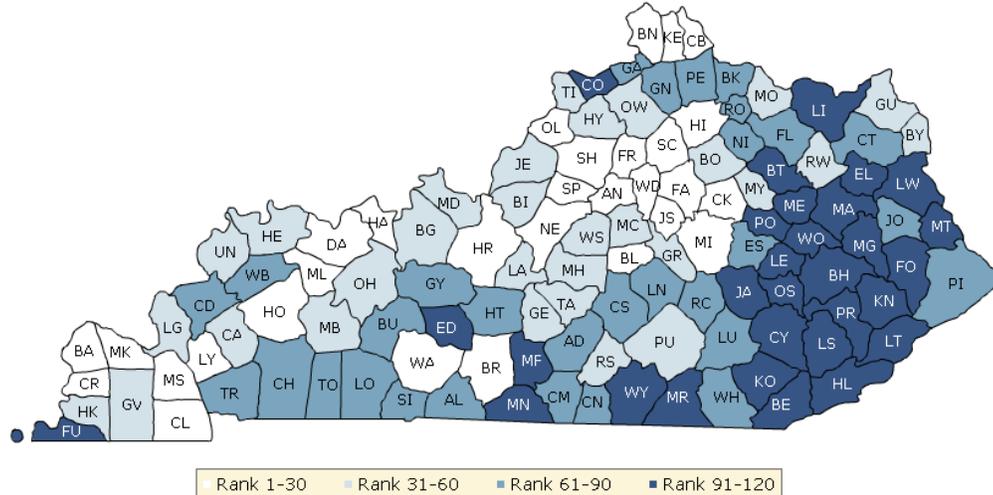
summary rankings. The green map shows the distribution of summary health outcomes. The blue displays the distribution of the summary rank for health factors.

HEALTH OUTCOMES



County	Rank	County	Rank	County	Rank	County	Rank
Adair	60	Edmonson	27	Knox	105	Nicholas	110
Allen	47	Elliott	96	Larue	26	Ohio	46
Anderson	24	Estill	90	Laurel	70	Oldham	1
Ballard	82	Fayette	10	Lawrence	103	Owen	6
Barren	43	Fleming	69	Lee	108	Owsley	120
Bath	97	Floyd	112	Leslie	99	Pendleton	83
Bell	104	Franklin	14	Letcher	113	Perry	115
Boone	2	Fulton	111	Lewis	67	Pike	116
Bourbon	42	Gallatin	71	Lincoln	84	Powell	92
Boyd	88	Garrard	36	Livingston	77	Pulaski	48
Boyle	30	Grant	74	Logan	39	Robertson	52
Bracken	44	Graves	41	Lyon	12	Rockcastle	73
Breathitt	102	Grayson	58	Madison	20	Rowan	40
Breckinridge	57	Green	55	Magoffin	114	Russell	35
Bullitt	17	Greenup	65	Marion	37	Scott	7
Butler	64	Hancock	11	Marshall	34	Shelby	9
Caldwell	62	Hardin	15	Martin	119	Simpson	22
Calloway	3	Harlan	117	Mason	54	Spencer	4
Campbell	18	Harrison	59	McCracken	45	Taylor	32
Carlisle	80	Hart	38	McCreary	94	Todd	56
Carroll	49	Henderson	72	McLean	93	Trigg	85
Carter	91	Henry	50	Meade	13	Trimble	28
Casey	79	Hickman	31	Menifee	75	Union	53
Christian	51	Hopkins	66	Mercer	61	Warren	19
Clark	68	Jackson	109	Metcalfe	87	Washington	8
Clay	106	Jefferson	33	Monroe	63	Wayne	76
Clinton	98	Jessamine	16	Montgomery	86	Webster	78
Crittenden	89	Johnson	101	Morgan	29	Whitley	95
Cumberland	100	Kenton	21	Muhlenberg	81	Wolfe	118
Daviess	23	Knott	107	Nelson	25	Woodford	5

HEALTH FACTORS



County	Rank	County	Rank	County	Rank	County	Rank
Adair	87	Edmonson	93	Knox	105	Nicholas	69
Allen	76	Elliott	109	Larue	44	Ohio	35
Anderson	10	Estill	90	Laurel	66	Oldham	2
Ballard	19	Fayette	4	Lawrence	103	Owen	50
Barren	18	Fleming	71	Lee	116	Owsley	112
Bath	92	Floyd	104	Leslie	115	Pendleton	73
Bell	102	Franklin	27	Letcher	91	Perry	101
Boone	3	Fulton	97	Lewis	108	Pike	79
Bourbon	49	Gallatin	85	Lincoln	88	Powell	106
Boyd	32	Garrard	48	Livingston	46	Pulaski	38
Boyle	26	Grant	78	Logan	63	Robertson	68
Bracken	72	Graves	39	Lyon	13	Rockcastle	81
Breathitt	107	Grayson	67	Madison	6	Rowan	37
Breckinridge	58	Green	56	Magoffin	119	Russell	60
Bullitt	31	Greenup	34	Marion	57	Scott	5
Butler	62	Hancock	14	Marshall	20	Shelby	15
Caldwell	43	Hardin	22	Martin	110	Simpson	61
Calloway	7	Harlan	100	Mason	42	Spencer	24
Campbell	8	Harrison	25	McCracken	12	Taylor	41
Carlisle	23	Hart	82	McCreary	117	Todd	70
Carroll	95	Henderson	33	McLean	30	Trigg	64
Carter	84	Henry	54	Meade	51	Trimble	52
Casey	86	Hickman	59	Menifee	113	Union	45
Christian	75	Hopkins	29	Mercer	40	Warren	11
Clark	28	Jackson	114	Metcalfe	98	Washington	36
Clay	120	Jefferson	55	Monroe	96	Wayne	94
Clinton	77	Jessamine	17	Montgomery	47	Webster	65
Crittenden	83	Johnson	80	Morgan	111	Whitley	74
Cumberland	89	Kenton	16	Muhlenberg	53	Wolfe	118
Daviess	9	Knott	99	Nelson	21	Woodford	1

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 represent what influences the health of the county.

Rank	Health Outcomes	Rank	Health Factors
1	Oldham	1	Woodford
2	Boone	2	Oldham
3	Calloway	3	Boone
4	Spencer	4	Fayette
5	Woodford	5	Scott
6	Owen	6	Madison
7	Scott	7	Calloway
8	Washington	8	Campbell
9	Shelby	9	Daviess
10	Fayette	10	Anderson
11	Hancock	11	Warren
12	Lyon	12	McCracken
13	Meade	13	Lyon
14	Franklin	14	Hancock
15	Hardin	15	Shelby
16	Jessamine	16	Kenton
17	Bullitt	17	Jessamine
18	Campbell	18	Barren
19	Warren	19	Ballard
20	Madison	20	Marshall
21	Kenton	21	Nelson
22	Simpson	22	Hardin
23	Daviess	23	Carlisle
24	Anderson	24	Spencer
25	Nelson	25	Harrison
26	Larue	26	Boyle
27	Edmonson	27	Franklin
28	Trimble	28	Clark
29	Morgan	29	Hopkins
30	Boyle	30	McLean
31	Hickman	31	Bullitt
32	Taylor	32	Boyd
33	Jefferson	33	Henderson
34	Marshall	34	Greenup
35	Russell	35	Ohio
36	Garrard	36	Washington
37	Marion	37	Rowan
38	Hart	38	Pulaski
39	Logan	39	Graves
40	Rowan	40	Mercer
41	Graves	41	Taylor
42	Bourbon	42	Mason

Rank	Health Outcomes	Rank	Health Factors
43	Barren	43	Caldwell
44	Bracken	44	Larue
45	McCracken	45	Union
46	Ohio	46	Livingston
47	Allen	47	Montgomery
48	Pulaski	48	Garrard
49	Carroll	49	Bourbon
50	Henry	50	Owen
51	Christian	51	Meade
52	Robertson	52	Trimble
53	Union	53	Muhlenberg
54	Mason	54	Henry
55	Green	55	Jefferson
56	Todd	56	Green
57	Breckinridge	57	Marion
58	Grayson	58	Breckinridge
59	Harrison	59	Hickman
60	Adair	60	Russell
61	Mercer	61	Simpson
62	Caldwell	62	Butler
63	Monroe	63	Logan
64	Butler	64	Trigg
65	Greenup	65	Webster
66	Hopkins	66	Laurel
67	Lewis	67	Grayson
68	Clark	68	Robertson
69	Fleming	69	Nicholas
70	Laurel	70	Todd
71	Gallatin	71	Fleming
72	Henderson	72	Bracken
73	Rockcastle	73	Pendleton
74	Grant	74	Whitley
75	Menifee	75	Christian
76	Wayne	76	Allen
77	Livingston	77	Clinton
78	Webster	78	Grant
79	Casey	79	Pike
80	Carlisle	80	Johnson
81	Muhlenberg	81	Rockcastle
82	Ballard	82	Hart
83	Pendleton	83	Crittenden
84	Lincoln	84	Carter
85	Trigg	85	Gallatin
86	Montgomery	86	Casey
87	Metcalfe	87	Adair
88	Boyd	88	Lincoln
89	Crittenden	89	Cumberland
90	Estill	90	Estill

Rank	Health Outcomes	Rank	Health Factors
91	Carter	91	Letcher
92	Powell	92	Bath
93	McLean	93	Edmonson
94	McCreary	94	Wayne
95	Whitley	95	Carroll
96	Elliott	96	Monroe
97	Bath	97	Fulton
98	Clinton	98	Metcalfe
99	Leslie	99	Knott
100	Cumberland	100	Harlan
101	Johnson	101	Perry
102	Breathitt	102	Bell
103	Lawrence	103	Lawrence
104	Bell	104	Floyd
105	Knox	105	Knox
106	Clay	106	Powell
107	Knott	107	Breathitt
108	Lee	108	Lewis
109	Jackson	109	Elliott
110	Nicholas	110	Martin
111	Fulton	111	Morgan
112	Floyd	112	Owsley
113	Letcher	113	Menifee
114	Magoffin	114	Jackson
115	Perry	115	Leslie
116	Pike	116	Lee
117	Harlan	117	McCreary
118	Wolfe	118	Wolfe
119	Martin	119	Magoffin
120	Owsley	120	Clay

2012 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	2006-2008
Morbidity	Poor or fair health	Behavioral Risk Factor Surveillance System	2004-2010
	Poor physical health days	Behavioral Risk Factor Surveillance System	2004-2010
	Poor mental health days	Behavioral Risk Factor Surveillance System	2004-2010
	Low birthweight	National Center for Health Statistics	2002-2008
HEALTH FACTORS			
HEALTH BEHAVIORS			
Tobacco Use	Adult smoking	Behavioral Risk Factor Surveillance System	2004-2010
Diet and Exercise	Adult obesity	National Center for Chronic Disease Prevention and Health Promotion	2009
	Physical inactivity	National Center for Chronic Disease Prevention and Health Promotion	2009
Alcohol Use	Excessive drinking	Behavioral Risk Factor Surveillance System	2004-2010
	Motor vehicle crash death rate	National Center for Health Statistics	2002-2008
Sexual Activity	Sexually transmitted infections	National Center for Hepatitis, HIV, STD and TB Prevention	2009
	Teen birth rate	National Center for Health Statistics	2002-2008
CLINICAL CARE			
Access to Care	Uninsured	Small Area Health Insurance Estimates	2009
	Primary care physicians	Health Resources & Services Administration	2009
Quality of Care	Preventable hospital stays	Medicare/Dartmouth Institute	2009
	Diabetic screening	Medicare/Dartmouth Institute	2009
	Mammography screening	Medicare/Dartmouth Institute	2009
SOCIAL AND ECONOMIC FACTORS			
Education	High school graduation	National Center for Education Statistics and state-specific sources ¹	2008-2010
	Some college	American Community Survey	2006-2010
Employment	Unemployment	Bureau of Labor Statistics	2010
Income	Children in poverty	Small Area Income and Poverty Estimates	2010
Family and Social Support	Inadequate social support	Behavioral Risk Factor Surveillance System	2006-2010
	Children in single-parent households	American Community Survey	2006-2010
Community Safety	Violent crime rate ²	Federal Bureau of Investigation	2007-2009
PHYSICAL ENVIRONMENT			
Environmental Quality ³	Air pollution-particulate matter days	U.S. Environmental Protection Agency	2007
	Air pollution-ozone days	U.S. Environmental Protection Agency	2007
Built Environment	Access to recreational facilities	Census County Business Patterns	2009
	Limited access to healthy foods ⁴	U.S. Department of Agriculture	2006
	Fast food restaurants	Census County Business Patterns	2009

¹ NCES used for AK, AL, AR, CA, CT, FL, HI, ID, KY, MT, ND, NJ, OK, SD and TN

² State data source for IL.

³ Not available for AK and HI.

⁴ Access to Healthy Foods (2009) from Census Zip Code Business Patterns for AK and HI.

CREDITS

Report Authors

University of Wisconsin-Madison
School of Medicine and Public Health
Department of Population Health Sciences
Population Health Institute

Bridget Booske Catlin, PhD, MHSA
Amanda Jovaag, MS
Patrick Remington, MD, MPH

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

Technical Advisor

Amy Bernstein, ScD, Centers for Disease Control and Prevention

Research Assistance

Jennifer Buechner
Hyojun Park, MA
Jennifer Robinson
Matthew Rodock, MPH
Anne Roubal

Communications and Outreach

Burness Communications
Anna Grilley
Anna Graupner, MPH
Kate Konkle, MPH
Angela Russell, MS
Julie Willems Van Dijk, PhD, RN

Design

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

Robert Wood Johnson Foundation

Brenda L. Henry, PhD, MPH – Senior Program Officer
Abbey Cofsky, MPH – Program Officer
Michelle Larkin, JD, MS, RN – Assistant Vice-President and Deputy Director, Health Group
James S. Marks, MD, MPH – Senior Vice-President and Group Director, Health Group
Joe Marx – Senior Communications Officer

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countyhealthrankings.org



University of Wisconsin Population Health Institute
610 Walnut St, #524, Madison, WI 53726
(608) 265-6370 / info@countyhealthrankings.org

