

2012 Rankings Michigan





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.

TAKE ACTION



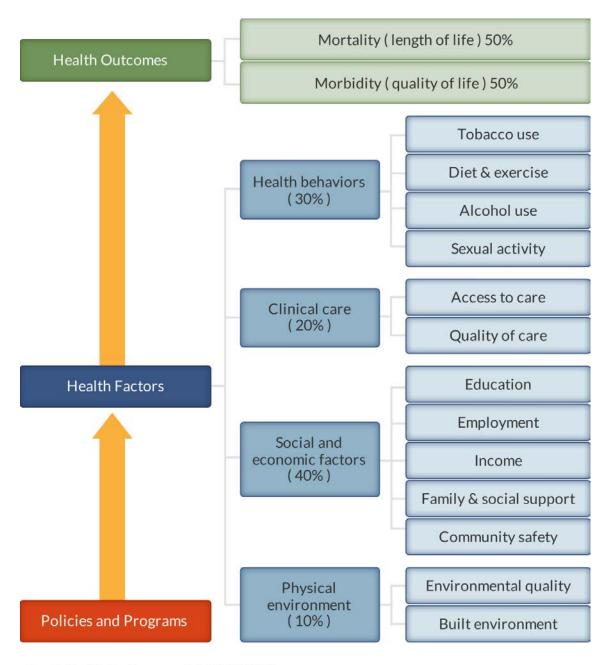
Roadmaps to Health Action Center

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 Michigan 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 Michigan'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

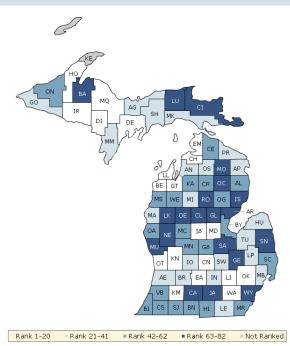
summary rankings. The green map shows the distribution of summary health outcomes. The blue displays the distribution of the summary rank for health factors.

HEALTH OUTCOMES



County	Rank	County	Rank	County	Rank	County	Rank
Alcona	79	Dickinson	29	Lake	78	Oceana	44
Alger	8	Eaton	9	Lapeer	11	Ogemaw	67
Allegan	18	Emmet	7	Leelanau	1	Ontonagon	82
Alpena	66	Genesee	77	Lenawee	13	Osceola	36
Antrim	45	Gladwin	68	Livingston	4	Oscoda	73
Arenac	69	Gogebic	35	Luce	71	Otsego	51
Baraga	6	Grand Traverse	10	Mackinac	30	Ottawa	2
Barry	21	Gratiot	33	Macomb	41	Presque Isle	58
Bay	54	Hillsdale	37	Manistee	56	Roscommon	75
Benzie	43	Houghton	24	Marquette	12	Saginaw	76
Berrien	62	Huron	46	Mason	42	Sanilac	50
Branch	48	Ingham	32	Mecosta	31	Schoolcraft	60
Calhoun	72	Ionia	26	Menominee	23	Shiawassee	52
Cass	55	losco	57	Midland	17	St. Clair	49
Charlevoix	14	Iron	39	Missaukee	19	St. Joseph	70
Cheboygan	22	Isabella	20	Monroe	38	Tuscola	27
Chippewa	28	Jackson	53	Montcalm	34	Van Buren	47
Clare	80	Kalamazoo	40	Montmorency	64	Washtenaw	5
Clinton	3	Kalkaska	74	Muskegon	63	Wayne	81
Crawford	65	Kent	15	Newaygo	59	Wexford	61
Delta	25	Keweenaw	NR	Oakland	16		

HEALTH FACTORS



County	Rank	County	Rank	County	Rank	County	Rank
Alcona	47	Dickinson	10	Lake	81	Oceana	61
Alger	30	Eaton	12	Lapeer	34	Ogemaw	59
Allegan	26	Emmet	15	Leelanau	3	Ontonagon	50
Alpena	29	Genesee	75	Lenawee	27	Osceola	65
Antrim	31	Gladwin	77	Livingston	2	Oscoda	70
Arenac	67	Gogebic	22	Luce	76	Otsego	32
Baraga	79	Grand Traverse	9	Mackinac	41	Ottawa	5
Barry	23	Gratiot	57	Macomb	28	Presque Isle	33
Bay	53	Hillsdale	55	Manistee	45	Roscommon	78
Benzie	13	Houghton	11	Marquette	4	Saginaw	74
Berrien	48	Huron	21	Mason	37	Sanilac	69
Branch	46	Ingham	24	Mecosta	42	Schoolcraft	38
Calhoun	71	Ionia	39	Menominee	36	Shiawassee	25
Cass	51	losco	63	Midland	7	St. Clair	60
Charlevoix	14	Iron	18	Missaukee	35	St. Joseph	58
Cheboygan	49	Isabella	20	Monroe	43	Tuscola	40
Chippewa	66	Jackson	68	Montcalm	62	Van Buren	56
Clare	80	Kalamazoo	17	Montmorency	64	Washtenaw	1
Clinton	8	Kalkaska	54	Muskegon	73	Wayne	82
Crawford	52	Kent	19	Newaygo	72	Wexford	44
Delta	16	Keweenaw	NR	Oakland	6		

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	Leelanau	1	Washtenaw
2	Ottawa	2	Livingston
3	Clinton	3	Leelanau
4	Livingston	4	Marquette
5	Washtenaw	5	Ottawa
6	Baraga	6	Oakland
7	Emmet	7	Midland
8	Alger	8	Clinton
9	Eaton	9	Grand Traverse
10	Grand Traverse	10	Dickinson
11	Lapeer	11	Houghton
12	Marquette	12	Eaton
13	Lenawee	13	Benzie
14	Charlevoix	14	Charlevoix
15	Kent	15	Emmet
16	Oakland	16	Delta
17	Midland	17	Kalamazoo
18	Allegan	18	Iron
19	Missaukee	19	Kent
20	Isabella	20	Isabella
21	Barry	21	Huron
22	Cheboygan	22	Gogebic
23	Menominee	23	Barry
24	Houghton	24	Ingham
25	Delta	25	Shiawassee
26	Ionia	26	Allegan
27	Tuscola	27	Lenawee
28	Chippewa	28	Macomb
29	Dickinson	29	Alpena
30	Mackinac	30	Alger
31	Mecosta	31	Antrim
32	Ingham	32	Otsego
33	Gratiot	33	Presque Isle
34	Montcalm	34	Lapeer
35	Gogebic	35	Missaukee
36	Osceola	36	Menominee
37	Hillsdale	37	Mason
38	Monroe	38	Schoolcraft
39	Iron	39	Ionia
40	Kalamazoo	40	Tuscola
41	Macomb	41	Mackinac
42	Mason	42	Mecosta

Rank	Health Outcomes	Rank	Health Factors
43	Benzie	43	Monroe
44	Oceana	44	Wexford
45	Antrim	45	Manistee
46	Huron	46	Branch
47	Van Buren	47	Alcona
48	Branch	48	Berrien
49	St. Clair	49	Cheboygan
50	Sanilac	50	Ontonagon
51	Otsego	51	Cass
52	Shiawassee	52	Crawford
53	Jackson	53	Bay
54	Bay	54	Kalkaska
55	Cass	55	Hillsdale
56	Manistee	56	Van Buren
57	losco	57	Gratiot
58	Presque Isle	58	St. Joseph
59	Newaygo	59	Ogemaw
60	Schoolcraft	60	St. Clair
61	Wexford	61	Oceana
62	Berrien	62	Montcalm
63	Muskegon	63	losco
64	Montmorency	64	Montmorency
65	Crawford	65	Osceola
66	Alpena	66	Chippewa
67	Ogemaw	67	Arenac
68	Gladwin	68	Jackson
69	Arenac	69	Sanilac
70	St. Joseph	70	Oscoda
71	Luce	71	Calhoun
72	Calhoun	72	Newaygo
73	Oscoda	73	Muskegon
74	Kalkaska	74	Saginaw
75	Roscommon	75	Genesee
76	Saginaw	76	Luce
77	Genesee	77	Gladwin
78	Lake	78	Roscommon
79	Alcona	79	Baraga
80	Clare	80	Clare
81	Wayne	81	Lake
82	Ontonagon	82	Wayne

Not Ranked: Keweenaw

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	Inadequate social support	Behavioral Risk Factor Surveillance System	2006-2010
Support	Children in single-parent households	American Community Survey	2006-2010
Community Safety	Violent crime rate ²	Federal Bureau of Investigation	2007-2009
PHYSICAL ENVIRONMENT	T.		
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

 $^{^{\}rm 1}~$ 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

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

