



# County Health Rankings & Roadmaps

A Healthier Nation, County by County

## 2013 *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.

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## 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](http://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. You can also take advantage of the Using the *Rankings* Data guide to help you explore the data and figure out more about what is driving your community's health. To learn about what you can do to improve health in your community, visit the *Roadmaps to Health* Action Center. Finally, you can learn what others are doing by reading Communities Stories and visiting the Project Showcase.

## 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.

The *County Health Roadmaps* 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 (RWJF) collaborates with the University of Wisconsin Population Health Institute (UWPHI) 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 guidance on strategies to improve health.

### Roadmaps to Health Community Grants

The *Roadmaps to Health* Community Grants provide funding for 2 years to thirty 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

RWJF 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. As of February 2013, RWJF has awarded partner grants to United Way Worldwide, National Business Coalition on Health, and National Association of Counties.

### RWJF Roadmaps to Health Prize

In February 2013, RWJF awarded the first *RWJF Roadmaps to Health* Prizes of \$25,000 to six communities that are working to become healthier places to live, learn, work and play. The *RWJF 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.



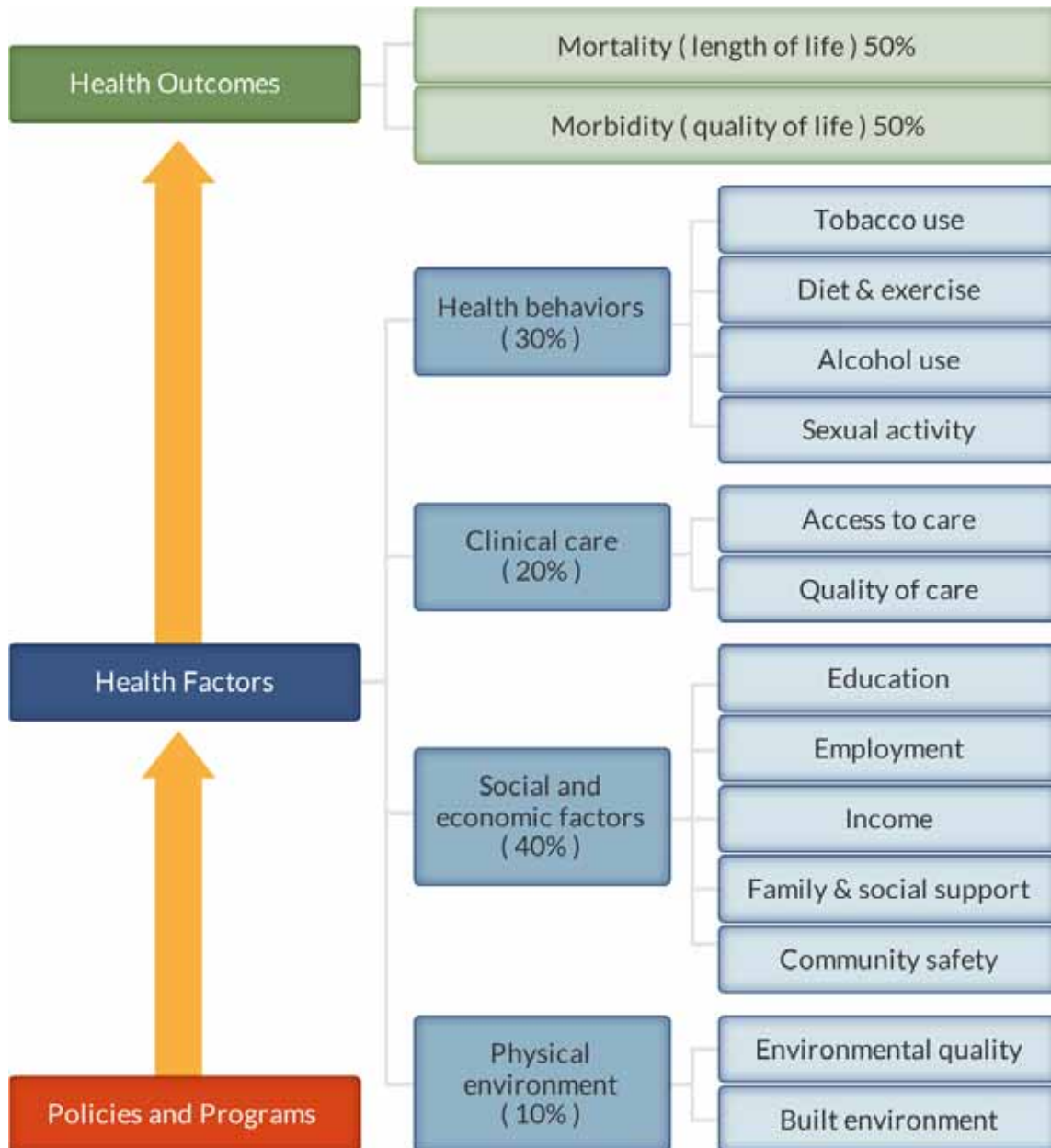
### Roadmaps to Health Action Center

The *Roadmaps to Health* Action Center, based at UWPHI, provides tools and guidance to help groups working to make their communities healthier places. The Action Center website provides guidance on developing strategies and advocacy efforts to advance pro-health policies, opportunities for ongoing learning, and a searchable database of evidence-informed policies and programs focused on health improvement: *What Works for Health*. Action Center staff provide customized consultation via email and telephone to those seeking more information about how to improve health. Coaching, including possible on-site visits, is also available for 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 2013 *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.

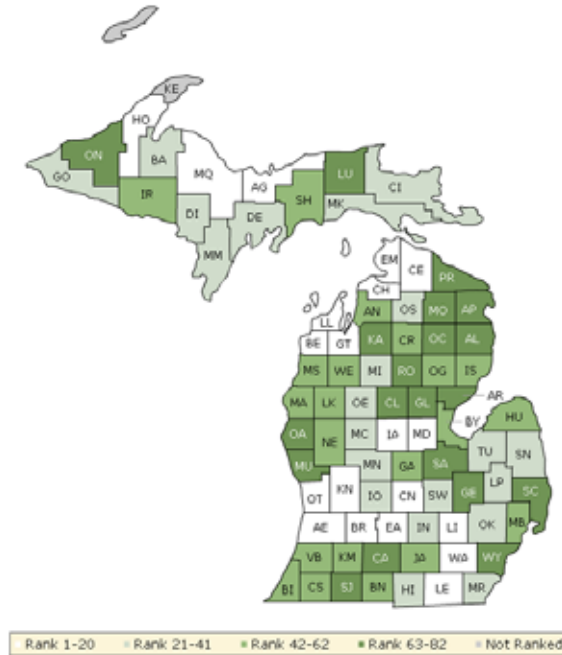


County Health Rankings model ©2012 UWPHI

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

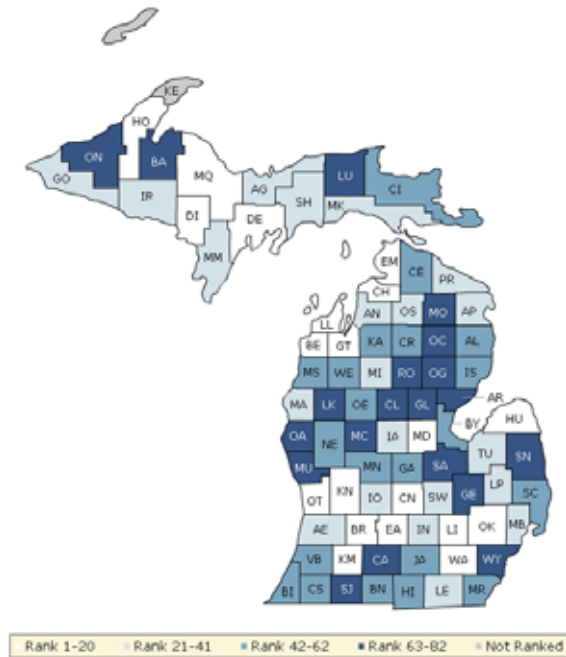
summary rankings. The green map shows the distribution of summary health outcomes. The blue displays the distribution of the summary rank for health factors.

### HEALTH OUTCOMES



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

## HEALTH FACTORS



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



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

**Not Ranked:** Keweenaw

## 2013 County Health Rankings: Measures, Data Sources, and Years of Data

	Measure	Data Source	Years of Data
<b>HEALTH OUTCOMES</b>			
<b>Mortality</b>	Premature death	National Center for Health Statistics	2008-2010
<b>Morbidity</b>	Poor or fair health	Behavioral Risk Factor Surveillance System	2005-2011
	Poor physical health days	Behavioral Risk Factor Surveillance System	2005-2011
	Poor mental health days	Behavioral Risk Factor Surveillance System	2005-2011
	Low birthweight	National Center for Health Statistics	2004-2010
<b>HEALTH FACTORS</b>			
<b>HEALTH BEHAVIORS</b>			
<b>Tobacco Use</b>	Adult smoking	Behavioral Risk Factor Surveillance System	2005-2011
<b>Diet and Exercise</b>	Adult obesity	National Center for Chronic Disease Prevention and Health Promotion	2009
	Physical inactivity	National Center for Chronic Disease Prevention and Health Promotion	2009
<b>Alcohol Use</b>	Excessive drinking	Behavioral Risk Factor Surveillance System	2005-2011
	Motor vehicle crash death rate	National Center for Health Statistics	2004-2010
<b>Sexual Activity</b>	Sexually transmitted infections	National Center for HIV/AIDS, Viral Hepatitis, STD, and TB prevention	2010
	Teen birth rate	National Center for Health Statistics	2004-2010
<b>CLINICAL CARE</b>			
<b>Access to Care</b>	Uninsured	Small Area Health Insurance Estimates	2010
	Primary care physicians	HRSA Area Resource File	2011-2012
	Dentists	HRSA Area Resource File	2011-2012
<b>Quality of Care</b>	Preventable hospital stays	Medicare/Dartmouth Institute	2010
	Diabetic screening	Medicare/Dartmouth Institute	2010
	Mammography screening	Medicare/Dartmouth Institute	2010
<b>SOCIAL AND ECONOMIC FACTORS</b>			
<b>Education</b>	High school graduation	Primarily state-specific sources, supplemented with National Center for Education Statistics	State-specific
	Some college	American Community Survey	2007-2011
<b>Employment</b>	Unemployment	Bureau of Labor Statistics	2011
<b>Income</b>	Children in poverty	Small Area Income and Poverty Estimates	2011
<b>Family and Social Support</b>	Inadequate social support	Behavioral Risk Factor Surveillance System	2005-2010
	Children in single-parent households	American Community Survey	2007-2011
<b>Community Safety</b>	Violent crime rate	Federal Bureau of Investigation	2008-2010
<b>PHYSICAL ENVIRONMENT</b>			
<b>Environmental Quality</b>	Daily fine particulate matter <sup>1</sup>	CDC WONDER Environmental data	2008
	Drinking water safety	Safe Drinking Water Information System	FY 2012
<b>Built Environment</b>	Access to recreational facilities	Census County Business Patterns	2010
	Limited access to healthy foods	USDA Food Environment Atlas	2012
	Fast food restaurants	Census County Business Patterns	2010

<sup>1</sup> Not available for AK and HI.

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