

The County Health Rankings Project Hillsdale County, Michigan

A Product of the Robert Wood Johnson
Foundation

&

The University of Wisconsin Population
Health Institute



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What are the County Health Rankings?

- ✦ The *Rankings* are based on a model of population health that emphasizes the many factors that, if improved, can help make communities healthier places to live, learn, work and play.



Sources of Data

(Alphabet Soup)

- ✦ Centers for Disease Control and Prevention (CDC):
- ✦ Behavioral Risk Factor Surveillance System (BRFSS)
- ✦ National Center for Health Statistics (NCHS)
- ✦ National Center for Chronic Disease Prevention and Health Promotion (Division of Diabetes Translation)
- ✦ National Center for Hepatitis, HIV, STD, and TB Prevention
- ✦ Environmental Protection Agency (EPA)
- ✦ Health Resources and Services Administration (HRSA)
- ✦ Decennial Census
- ✦ American Community Survey (ACS)
- ✦ Census/Current Population Survey: Small Area Health Insurance Estimates and Income and Poverty Estimates, and Census County and Zip Code Business Patterns
- ✦ Federal Bureau of Investigation (FBI)
- ✦ Medicare claims/The Dartmouth Institute
- ✦ National Center for Education Statistics (NCES)
- ✦ Bureau of Labor Statistics (BLS)

What Process was used to select the measures used in the Rankings

- ✦ Review of the literature around the impact of various health factors
- ✦ Ability for factors to be modified
- ✦ Availability and reliability of measures at the county level
- ✦ Analysis and feedback by a panel of technical experts.

Ranking Methods


The County Health Rankings include 2 primary categories

- ◆ Health outcomes (2)
- ◆ Health factors (4)



Health Outcomes

Health outcomes represent how healthy a county is. This report measure two types of health outcomes:

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- ✦ Mortality - how long people live
 - ✦ Morbidity - how healthy people feel while alive

Health Outcome Categories - Mortality

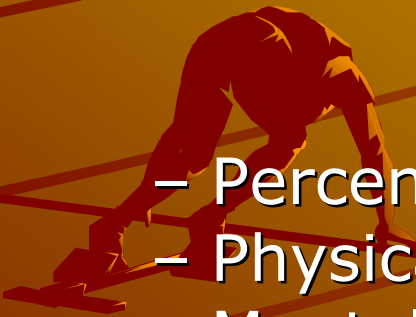
- ✦ Mortality – Measurement Tool- Years of Potential Life Lost (YPLL)
- ✦ Premature death is represented by the years of potential life lost before age 75. Every death occurring before the age of 75 contributes to the total number of years of potential life lost. For example, a person dying at age 25 contributes 50 years of life lost, whereas a person who dies at age 65 contributes 10 years of life lost to a county.
- ✦ Age-adjusting adjusts for variations in population against a standard (US Census)

Health Outcomes - Morbidity

- ✦ Morbidity- refers to how healthy people feel while alive. Specifically the measures of health-related quality of life (overall health, physical health, mental health) and birth outcomes (babies born with a low birth weight). This information is obtained mostly through surveys.

Measurement Tools

- Percent reporting poor or fair health (BRFS)
- Physically unhealthy days (BRFS) / Month
- Mentally unhealthy days (BRFS) / Month
- Low birth weight live births (Birth files)




Health Factors

Health factors represent what influences the health of a county. The Report measure four types of health factors:

- ◆ Health behaviors
- ◆ Clinical care
- ◆ Social and economic
- ◆ Physical environment

Factor # 1 - Health Behaviors

Focus Area

- ✦ Tobacco Use
 - ✦ Diet & Exercise
 - ✦ Alcohol use
 - ✦ Unsafe Sex
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Measures

- Adult smoking rate
- Adult obesity rate
- Excessive drinking
- Motor vehicle crash death rate
- Chlamydia rate
- Teen Birth rate

Data sources: BRFSS, MV Reports, NCHS, ACS

Factor # 2 - Clinical Care

Focus Area

✦ Access to care

✦ Quality of Care



Measures

Adult uninsured
Primary Care Providers

Preventable Hospital Stays
Diabetic screening
Mammography Screening

Data Sources: BRFS, NCCDP, HRSA, NCHS

Factor # 3 - Social and Economic

Focus area

- ✦ Education
- ✦ Employment
- ✦ Income
- ✦ Family and Social Supports
- ✦ Community Safety

Measures

Grad. Rate/Some College
Unemployment rate
Children in poverty
Inadequate social support; Single-parent households
Violent crime rates

Data Sources: NCES, BLS, ACS, Census

Factor # 4 - Physical Environment

Focus area

✦ Environmental Quality

Measures

Air pollution particulate matter days; Ozone pollution days

✦ Built Environment

Access to healthy foods;
Access to recreational facilities

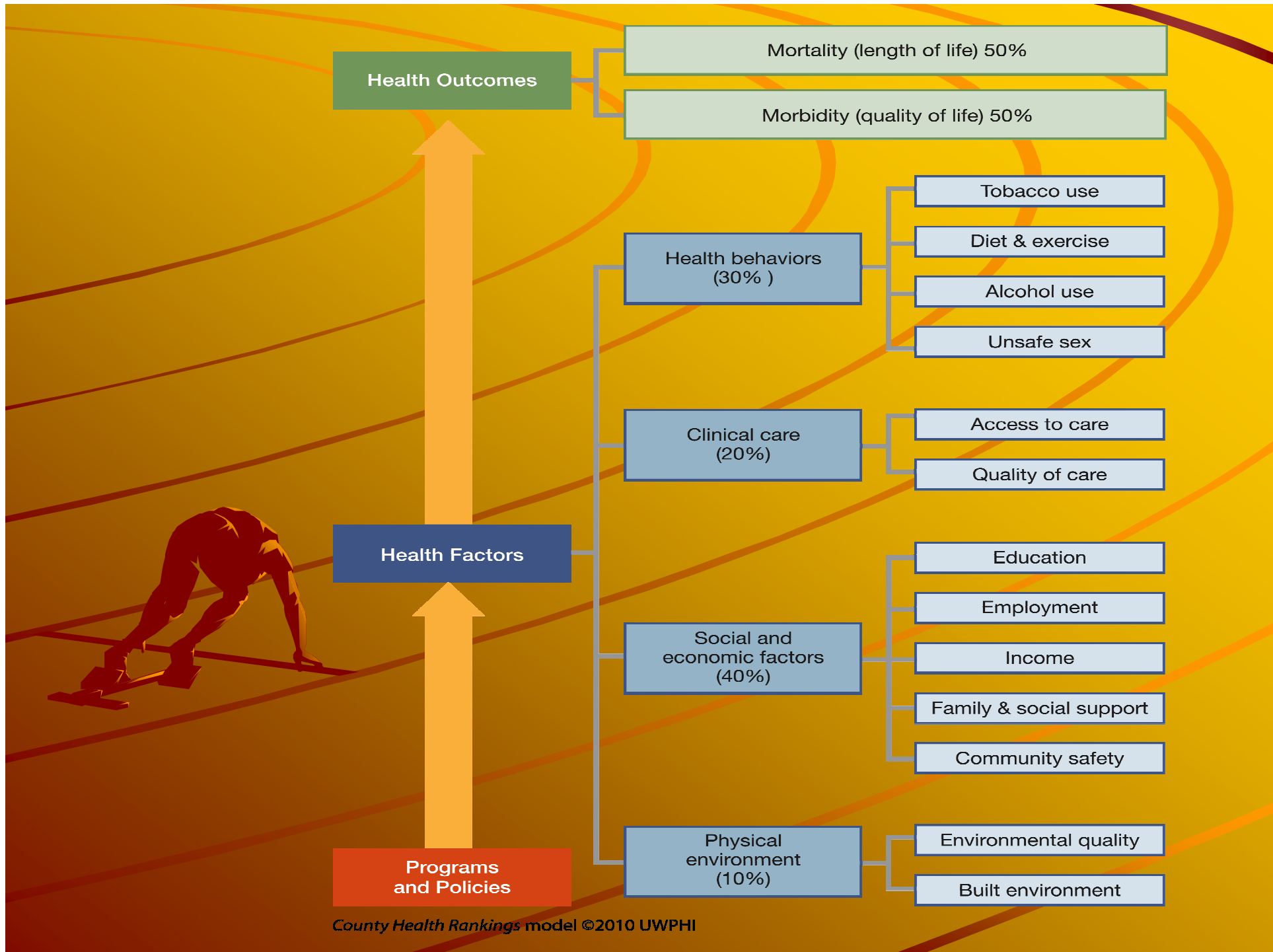


Data Sources: EPA, CDC, US Census

Computing your 'Score'

- ✦ The Rankings are based on summary scores of individual measures.
- ✦ Ranking is based on 82 Counties (Keweenaw not included; pop. 2200)





Summary of Scores

Combined
Rankings
31

📌 Health Outcomes

- Mortality 27/82
- Morbidity 48/82

📌 Health Factors

- Behaviors 38/82
- Clinical Care 52/82
- Social/Economics 60/82
- Physical Environment 30/82

51

Hillsdale County

	County	MI	Rank
Mortality	6,621	7,387	27
Morbidity			48
Poor/fair health	18%	15%	
Poor physical health days	3.9	3.5	
Poor mental health days	3.7	3.7	
Low Birth weight	6.9%	8.2%	
Health Factors			60
Health Behaviors			43
Adult Smoke	24%	22%	
Adult Obesity	30%	31%	
Binge Drink	20%	19%	
MV Crash Death Rate	26	13	
Chlamydia Rate	143	446	
Teen Birth Rate	39	35	



Hillsdale County

	County	MI	Rank 52
Clinical Care			
Uninsured Adult	14%	14%	
Primary Care Providers	1,838:1	874:1	
Preventable Hospital Stays	79	74	
Diabetic Screening	84%	83%	
Mammography Screening	70%	69%	



Hillsdale County

	County	MI	Rank
Social & Economic			60
HS Graduation	85%	77%	
Some College	49%	62%	
Unemployment	17.4%	13.6%	
Children in Poverty	23%	19%	
Inadequate Social Support	21%	20%	
Single Parent Households	28%	32%	
Violent Crime Rate	206	536	
Physical Environment			30
Air Pollution Days	2	5	
Ozone Days	0	3	
Access to Healthy Foods	42%	73%	
Access to Recreational Fac.	15	10	



Final Rankings

- ✦ Ranked in 2 summary categories
- ✦ Health Outcomes – How healthy is the County
- ✦ Health Factors – What factors are influencing the health of the County



Health Outcomes Ranking (Mortality, Morbidity)

How do we stack up?

- ◆ 1. Ottawa County
- ◆ 15. Lenawee
- ◆ 30. Ingham
- ◆ 31. **Hillsdale**
- ◆ 35. Kalamazoo
- ◆ 42. Branch County
- ◆ 51. Van Buren
- ◆ 59. Cass
- ◆ 62. Jackson
- ◆ 69. St. Joseph County
- ◆ 73. Calhoun
- ◆ 81. Wayne
- ◆ 82. Clare

Health Factors Ranking


1. Washtenaw
13. Kalamazoo
20. Ingham
22. Lenawee
43. Van Buren
50. Cass
51. **Hillsdale**
54. St. Joseph County
55. Jackson
60. Branch County
67. Calhoun
82. Wayne

Health Factors

A Breakdown of Components

	Health Behavior	Clinical Care	Social Economic	Physical Environ.
Hillsdale	38	52	60	30
Branch	43	80	44	55
St. Joseph	57	61	52	7
Calhoun	76	24	66	39
Jackson	73	29	48	33
Lenawee	25	34	28	58
Cass	52	76	30	50
Kalamazoo	21	16	17	11

Now What?

- ✦ Improving your community's health involves a cycle of activities
 - ✦ Assessing needs and resources,
 - ✦ Picking priorities,
 - ✦ Finding programs and policies that work
 - ✦ Implementing strategies
 - ✦ Evaluating efforts.
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Take Action

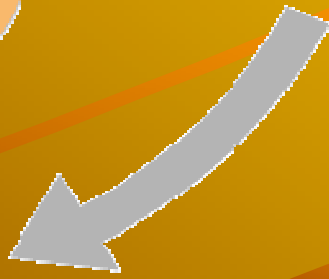
WORK TOGETHER



Assess Needs & Resources

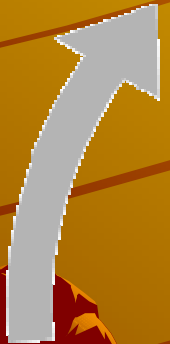


Pick Priorities:



Find Programs & Policies that Work

Evaluate Efforts



Implement Strategies



Strengths/Weaknesses

- ✦ + Wide variety of indicators
- ✦ + Starts Communities Talking
- ✦ - Missing some key indicators
 - ✦ Immunization rates/parks & rec. opportunities/population density/non-violent crime
- ✦ - Some Data is old
- ✦ - Several elements are estimates

📌 Questions?

📌 Follow-up?

