

# **Supplement to the 2016 Barry County Community Health Needs Assessment**

**October 25, 2016**

Created by the Barry-Eaton District Health Department



in collaboration with Spectrum Health Pennock





# Introduction

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Since 2012, the Barry-Eaton District Health Department (BEDHD) has worked collaboratively with Spectrum Health Pennock (formerly Pennock Health Services) and other community stakeholders to conduct Community Health Needs Assessments (CHNA) and Community Health Improvement Plans (CHIP) for Barry County. The purpose of a CHNA is to learn about the health of Barry County residents by identifying significant health indicators, contributing factors to health risks or poor health outcomes, and community resources available to improve health status. Subsequently, a CHIP describes how BEDHD, Spectrum Health Pennock, and other stakeholders will work together to improve the health of Barry County residents, based on the issues identified by the CHNA.

A new Barry County CHNA was developed in fall 2015 and finalized in March 2016. On February 11, 2016, a prioritization event was held with community stakeholders, including health care providers, community and government agencies, local coalitions and organizations, businesses, and media. The event allowed for review and feedback of the draft CHNA. In addition, the event participants selected the following health priorities to be of most importance for the upcoming CHIP: chronic disease in adults, mental health, obesity, tobacco and smoking, and opportunities for physical activity.

Stakeholders at the prioritization event indicated that they would like to see more data on the elderly, individuals with disabilities, and children with special needs included in the CHNA. Also, after further review of the final CHNA, it was determined that there was a lack of basic descriptive demographic data of Barry County's population. In addition, while there was mention of existing assets and resources that could be used to address health issues and inequities in Barry County, they were not listed in a concise manner within the CHNA.

Finally, due to separate grant funding, BEDHD conducted an assessment of maternal and child health issues within Barry County, which was published in May 2016. Priority areas from that assessment will be discussed within this supplement, especially if they are connected to the health priorities within the CHNA.

This supplement to the 2016 Barry County CHNA provides additional information to address the concerns listed above. For more information, please contact Susan Peters, DVM, MPH, with the Barry-Eaton District Health Department at (269) 798-4652 or [speters@bedhd.org](mailto:speters@bedhd.org).



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## Abbreviations used within this report:

ACS = American Community Survey  
BEDHD = Barry-Eaton District Health Department  
BRFS = Behavioral Risk Factor Survey  
CDC = Centers for Disease Control and Prevention  
MDE = Michigan Department of Education  
MDHHS = Michigan Department of Health and Human Services  
MiPHY = Michigan Profile for Healthy Youth  
US DHHS = United States Department of Health and Human Services  
YRBSS = Youth Risk Behavior Surveillance System

# Demographics

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	<u>Barry County</u>	<u>Comparison to Michigan</u>
Population (2014 estimates)	59,107	N/A
Adults, ≥65 years of age	9,412 (15.9%)	Higher
Children, <18 years of age	13,937 (23.6%)	Lower
Children, <5 years of age	3,258 (5.5%)	Lower
Females	29,368 (49.7%)	Lower
Caucasian or White race	57,972 (98.1%)	Higher
Hispanic ethnicity	1,435 (2.4%)	Lower
Per capita income	\$25,264	Lower
Persons in poverty	11.2%	Lower
Persons with no health insurance, <65 years of age	9.4%	Lower
High school graduate or higher, ≥25 years of age	91.4%	Higher
Home ownership	83.8%	Higher
Language other than English spoken at home	2.6%	Lower

Sources: 2010–2014 ACS, 2010 U.S. Census (home ownership)

# Issues Raised at Prioritization Event

## ***Elderly Population***

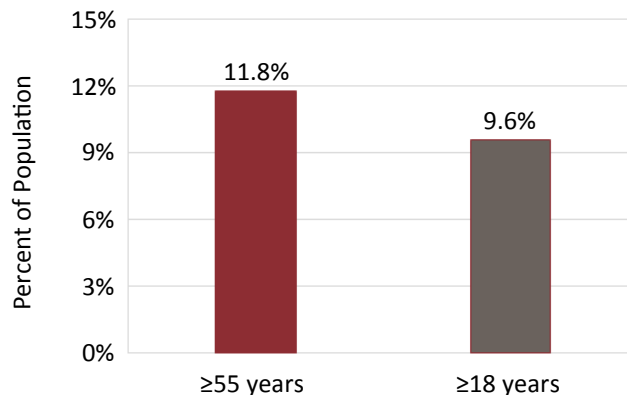
Barry County has more residents who are 65 years of age and older (15.9%) than Michigan and the U.S. (14.6% and 13.7%, respectively).<sup>1</sup> Fewer elderly residents are considered below the poverty level (Barry County: 5.3%; Michigan: 8.1%; U.S.: 9.4%) and unemployed (Barry County: 4.7%; Michigan: 7.2%; U.S.: 6.0%).<sup>1</sup>

1. Source: U.S. Census Bureau, 2010-2014 ACS 5-Year Estimates

All data in the following section are from the 2011-2013 Barry County BRFSS.

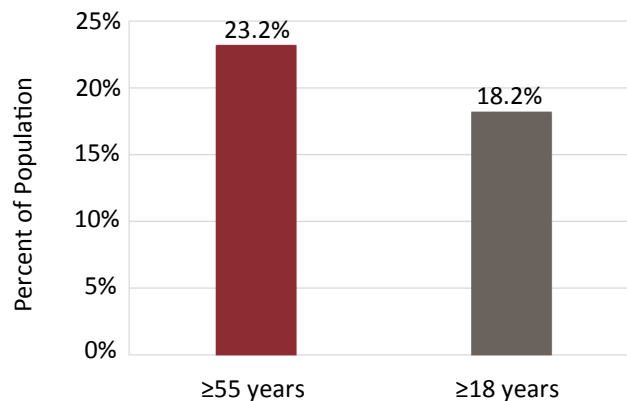
## **Poor Physical Health**

Elderly adults 55 years of age and older report higher levels of poor physical health than all adults 18 years and older.



## **Disability**

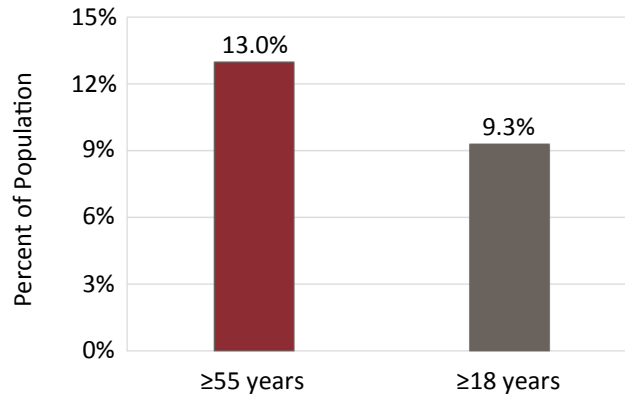
More elderly adults report having a disability, which is defined as being limited in any activities due to physical, mental, or emotional problems.



# Issues Raised at Prioritization Event

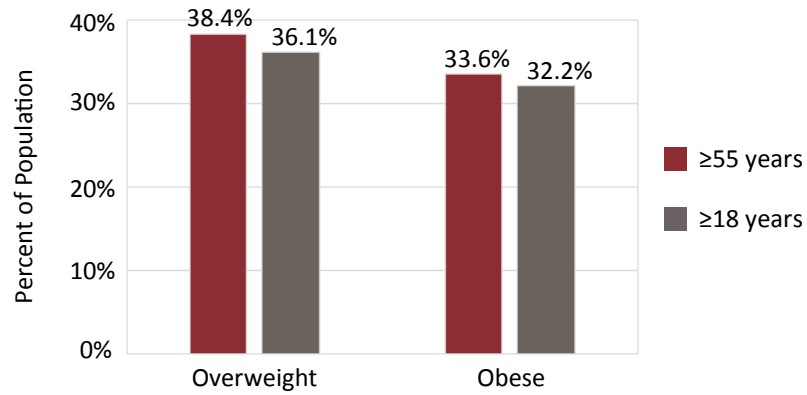
## Mental Health

Elderly adults are more likely to report taking medication or receiving treatment for a mental health condition than all adults.



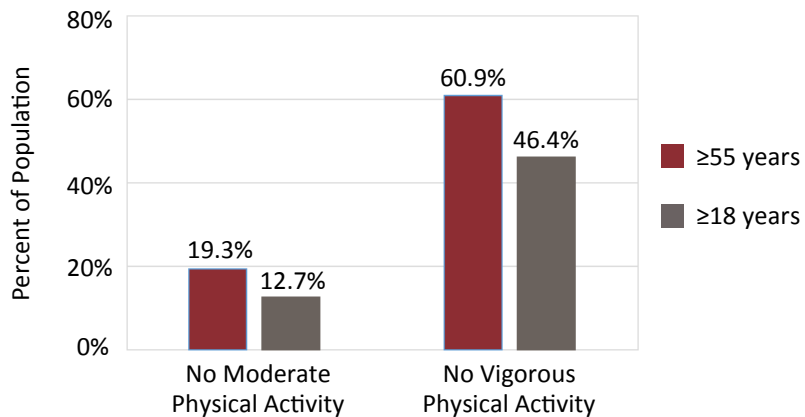
## Weight Status

Elderly adults are more likely to report being overweight or obese than all adults.



## Physical Activity

Elderly adults are less likely to engage in moderate or vigorous physical activity.



# Issues Raised at Prioritization Event

## ***Individuals with Disabilities***

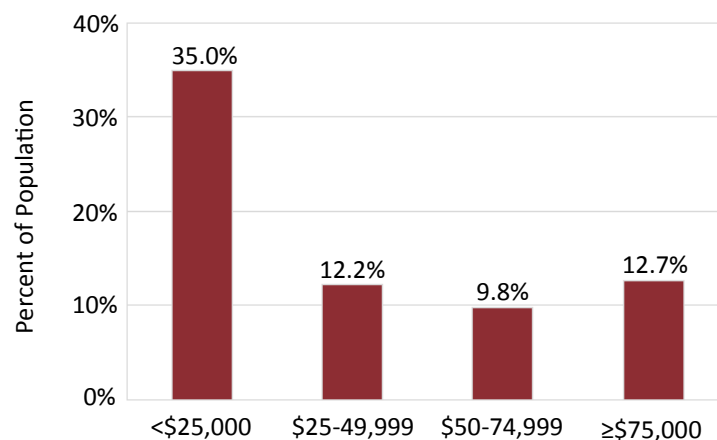
Disability can be defined in many ways, ranging from experiencing difficulty in participating in certain activities to having more severe disabilities that require assistance in personal or routine care needs. Emerging data indicate that individuals with disabilities, as a group, experience health disparities in routine public health arenas such as health behaviors, clinical preventive services, and chronic conditions.<sup>1</sup>

According to the 2011-2013 Barry County BRFSS, 18.2% of Barry County adults report limitation in some activity because of physical, mental, or emotional problems. This level is lower than what is reported statewide (22.3%).<sup>2</sup>

1. Healthy People 2020. [www.healthypeople.gov/2020/topics-objectives/topic/disability-and-health](http://www.healthypeople.gov/2020/topics-objectives/topic/disability-and-health).
2. Source: Michigan BRFSS, 2012

## **Disability by Income**

Disability is highest among Barry County residents earning less than \$25,000 per year.

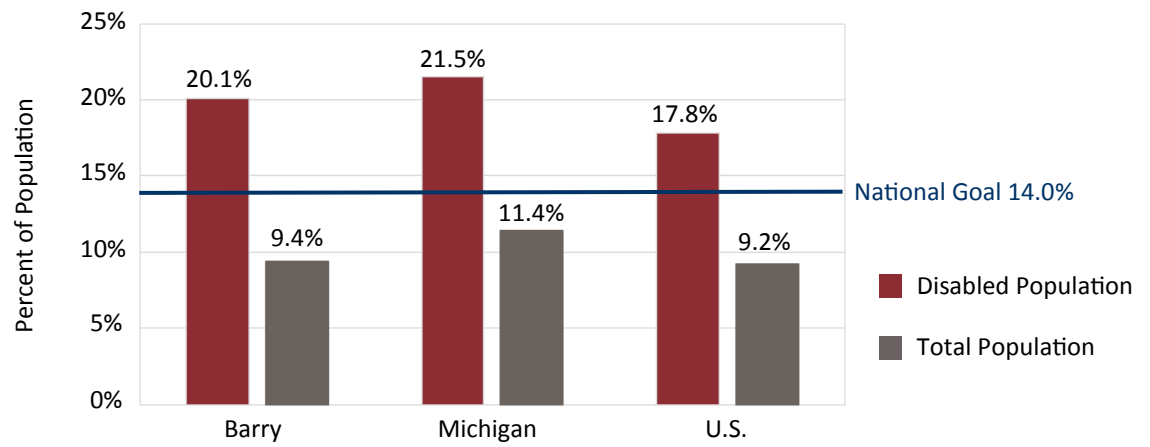


Source: Barry County BRFSS, 2011-2013

# Issues Raised at Prioritization Event

## Unemployment Rate

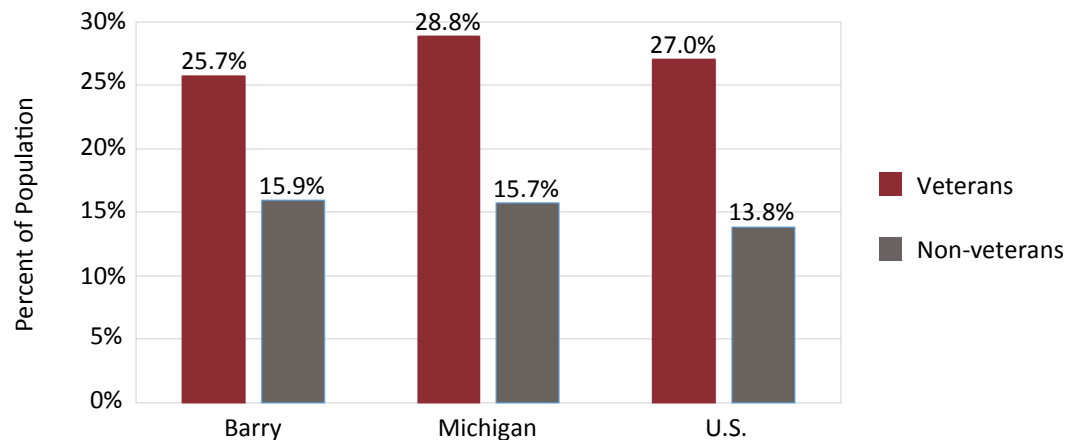
The unemployment rate in those who are disabled is much higher than for the total population. While the unemployment rate for residents of Barry County who are disabled is lower than the state's rate, it is higher than the national rate and the Healthy People 2020 target of 14.0%.



Source: U.S. Census Bureau, 2010-2014 ACS 5-Year Estimates

## Veterans with Disabilities

Veterans across the nation, including those in Barry County, experience a higher rate of disability than those who have not been in the military. The rate of disability in Barry County veterans is slightly less than the rate for the state and the nation. Interestingly, Barry County's disability rate in non-veterans is higher than the rates for Michigan and the U.S.



Source: U.S. Census Bureau, 2010-2014 ACS 5-Year Estimates



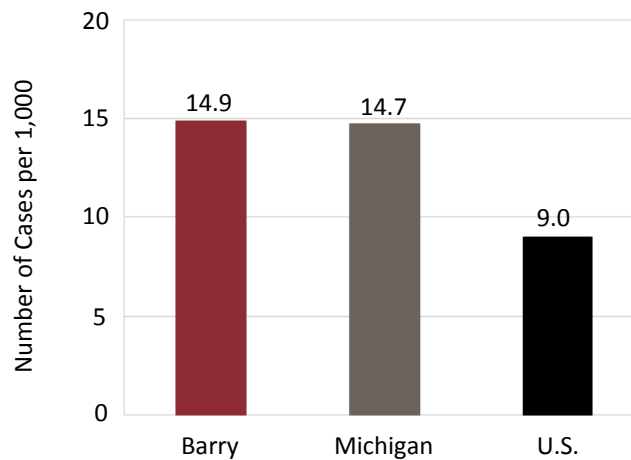
# Issues Raised at Prioritization Event

## ***Children with Special Needs***

Children within Barry County may require a variety of special needs, from health care services to educational and social support services.

## **Confirmed Victims of Child Abuse and/or Neglect**

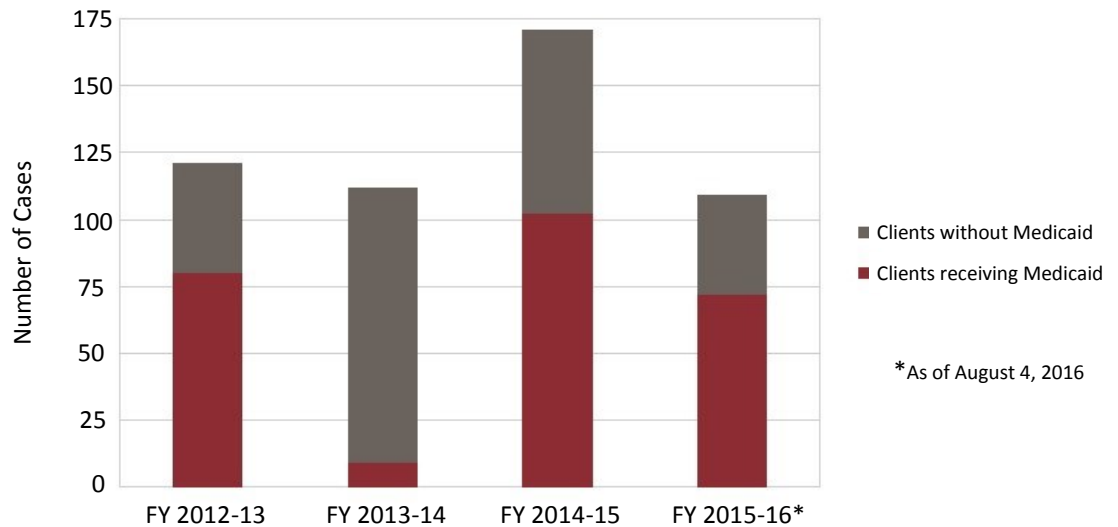
Barry County's rate of confirmed child abuse and/or neglect (cases per 1,000 children ages 0-17 years) is similar to Michigan's rate but higher than the U.S. rate.



Source: MDHHS, Children's Protective Services, 2014 (local and state); US DHHS, National Child Abuse and Neglect Data System, 2014 (national)

## **Children's Special Health Care Services (CSHCS)**

CSHCS is a program that provides financial assistance to families of children in Barry County with special health needs, regardless of their income or insurance status.



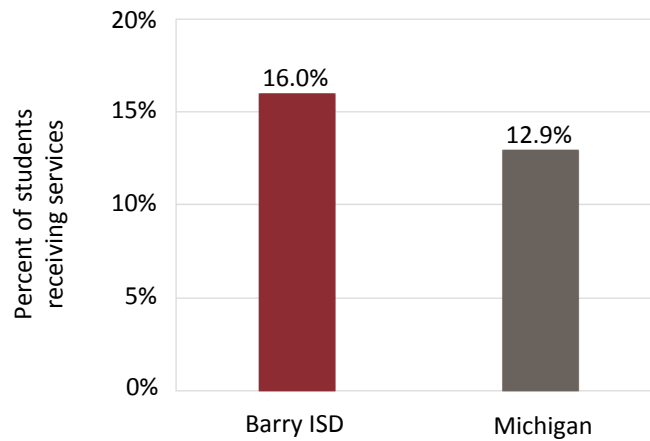
\*As of August 4, 2016

Source: BEDHD Children's Special Health Care Services, 2012-2015

# Issues Raised at Prioritization Event

## Special Education Services

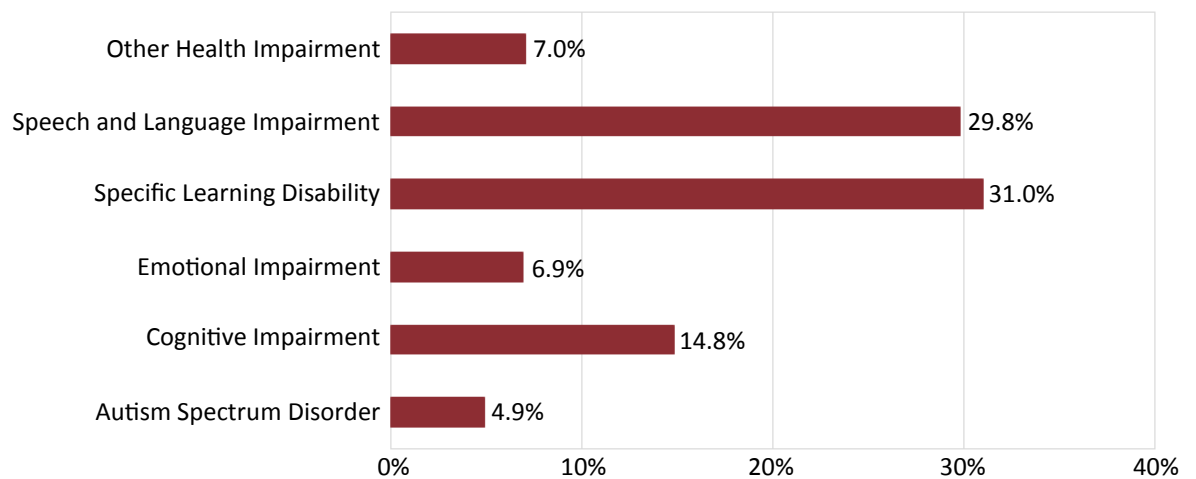
A higher percentage of students within the Barry Intermediate School District (ISD) receive special education services when compared to public schools statewide.



Source: MDE, 2015-2016

While services are offered through 26 years of age, most children (84.1%) receiving services within the Barry ISD are aged 6-21 years. The racial distribution of students receiving services is similar to that of all Barry ISD students. Slightly more students receiving services are of Hispanic ethnicity (4.7% vs. 3.7%).

Students with a variety of medical, physical, and learning disabilities or conditions receive services. Specific learning disability and speech and language impairment were the most commonly reported conditions.



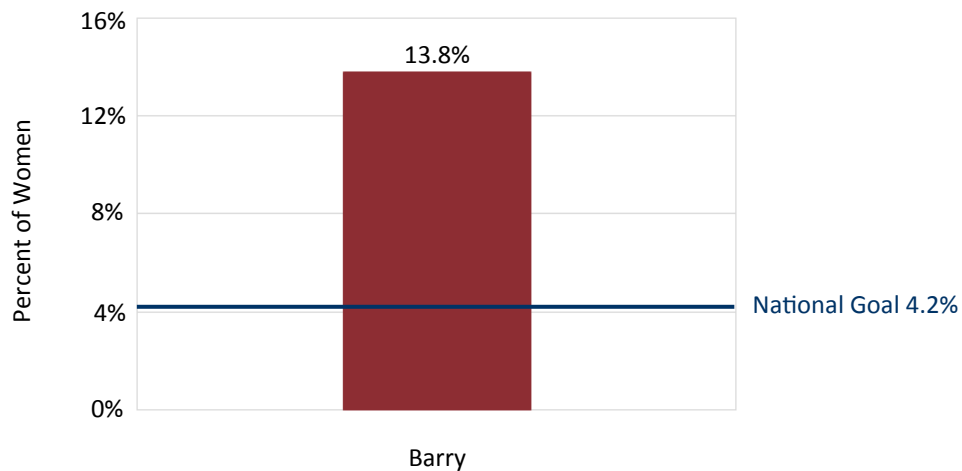
Source: MDE, 2015-2016. The following were not reported for Barry ISD students in 2015-2016: Hearing Impairment, Early Childhood Developmental Delay, Physical Impairment, Severe Multiple Impairment, Traumatic Brain Injury, Visual Impairment.

# Maternal and Child Health Priorities

The following data is from priority areas in the 2016 BEDHD Maternal Child Health Assessment. The entire assessment is available online at <http://bit.ly/1U5dOZ1>.

## Women Unable to See a Doctor

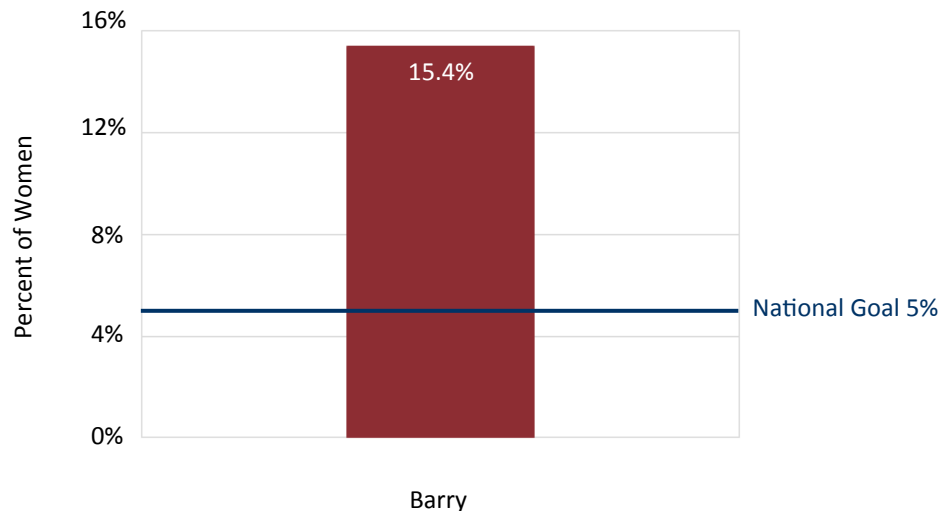
Barry County's rate of women aged 18 years and older who needed to see a healthcare provider falls significantly short of the national goal.



Source: Barry County BRFSS, 2011-2013

## Women Unable to See a Dentist

The rate of women aged 18 years and older in Barry County who needed to see a dentist but were not able to is significantly higher than the national goal.

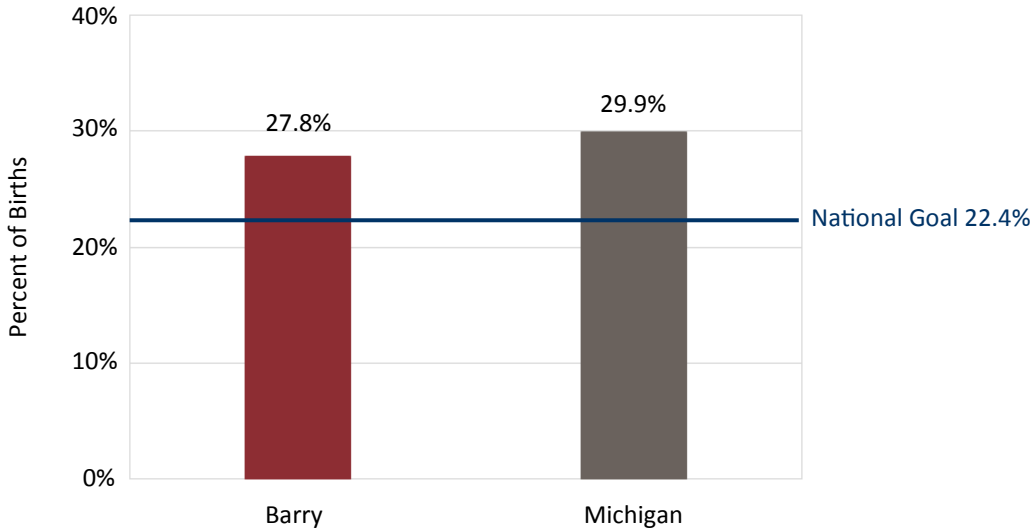


Source: Barry County BRFSS, 2011-2013

# Maternal and Child Health Priorities

## Births with Less than Adequate Prenatal Care

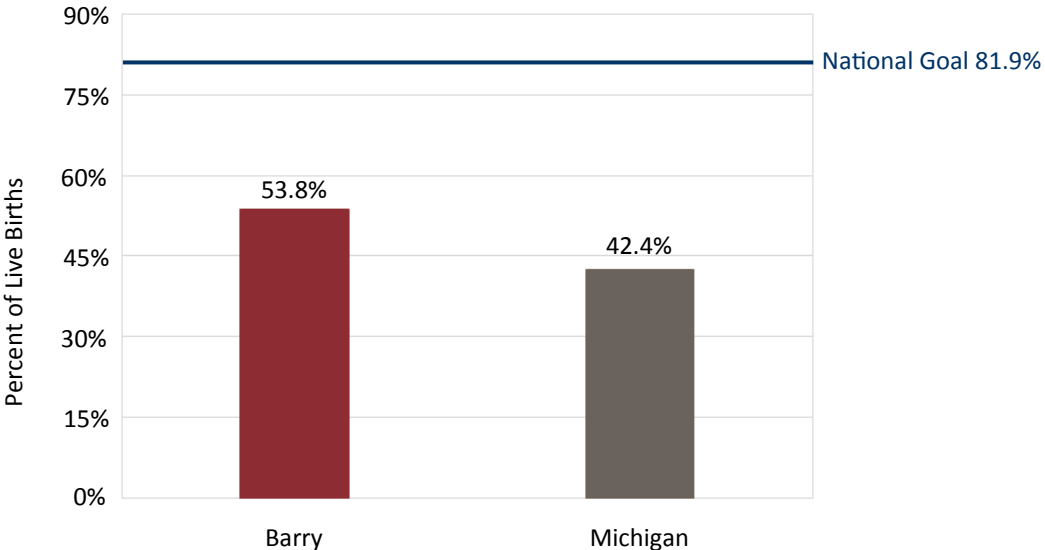
Barry County has a better prenatal care rate than the state; however, both Barry County and the state fall short of the national goal.



Source: Kids Count, 2013

## Live Births in which Breastfeeding was Initiated

While more mothers started to breastfeed in Barry County than in Michigan, the rate is still short of the national goal.

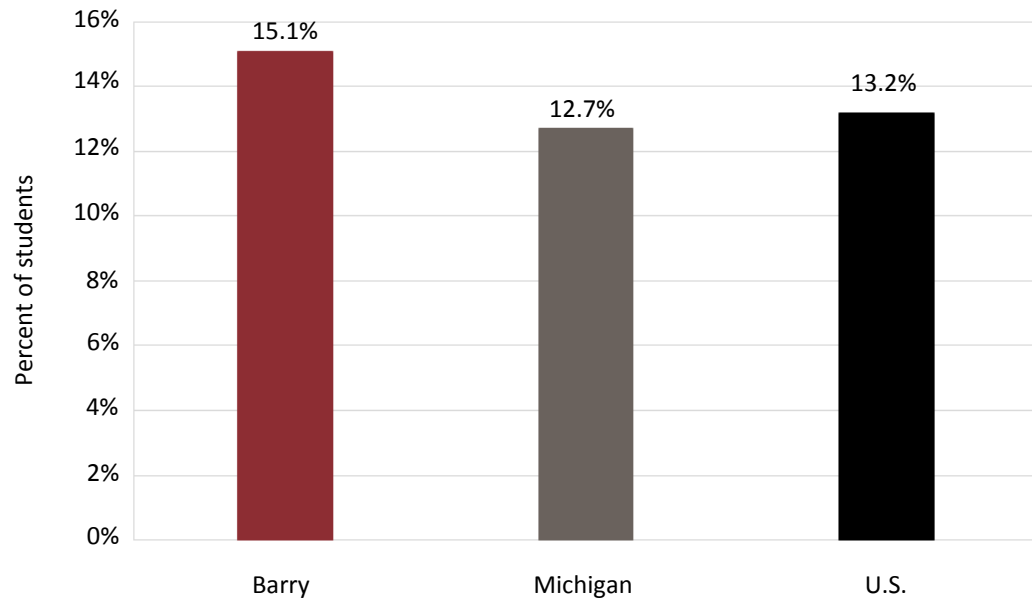


Source: Geocoded Michigan Birth Certificate Registry, 2014

# Maternal and Child Health Priorities

## 9th Graders Who are Obese

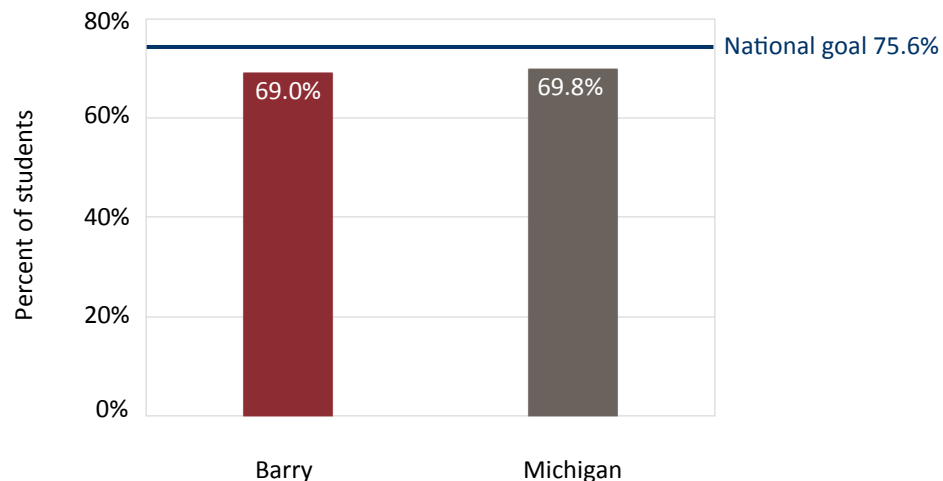
Barry County has a higher obesity rate in 9th graders than the state and the nation.



Source: MiPHY, 2013–14 (county); YRBSS, 2013 (state and national)

## Yearly Well Visits to Health Care Providers by Adolescents

While Barry County's percentage of high schoolers with well visits is close to Michigan's, we should increase the number of high schoolers who receive yearly well visits and aim to meet the national goal.

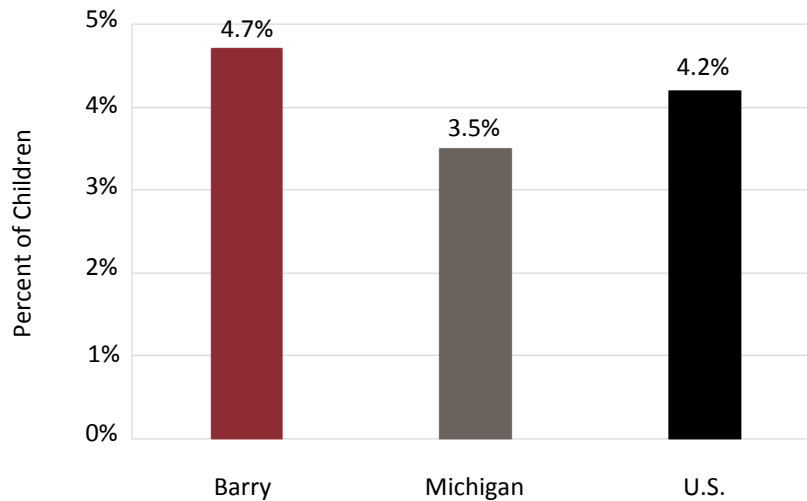


Source: MiPHY, 2013–14 (county); Michigan YRBSS, 2013 (state)

# Maternal and Child Health Priorities

## Child Blood Lead Levels

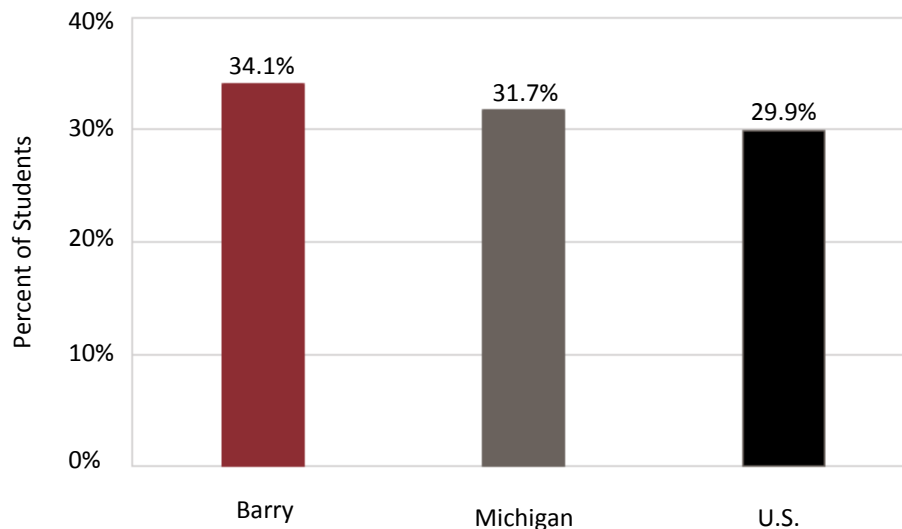
There is no safe lead blood level for children. When compared to rates for the state and the nation, Barry County's rate of children with high lead levels is higher.



Source: MDHHS, 2014 (local and state); CDC, 2014 (national)

## 9th Graders with Signs of Depression

More Barry County 9th graders have signs of depression than do 9th graders in Michigan and in the United States.

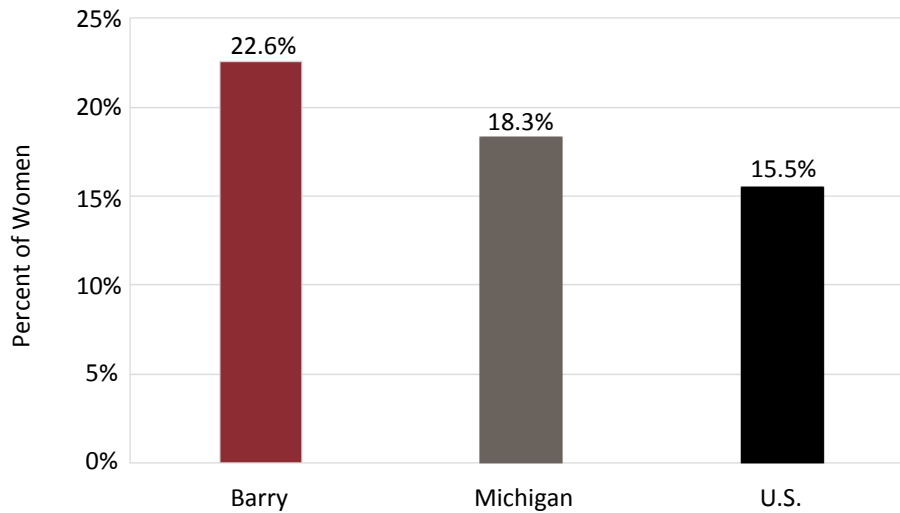


Source: MiPHY, 2015-2016 (county); YRBSS, 2015 (state and national)

# Maternal and Child Health Priorities

## Adult Women Who Smoke Cigarettes

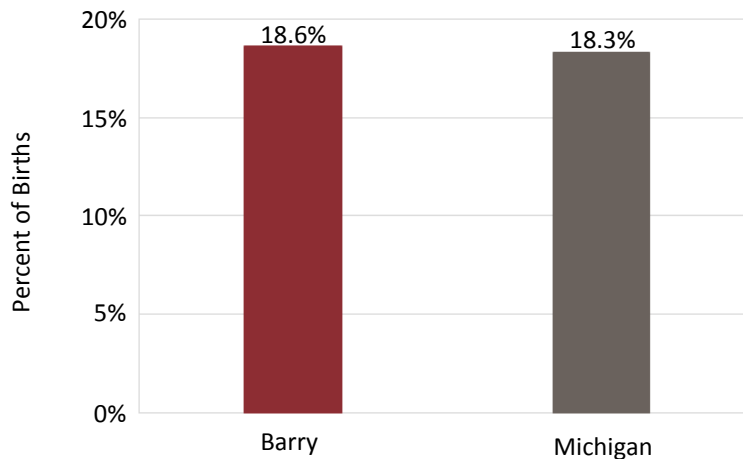
The rate for women smoking in Barry County is worse than Michigan's and much worse than the nation's.



Source: Barry County BRFSS, 2011-13; Michigan BRFSS, 2013; National Health Interview Survey, 2013

## Live Births in Which the Mother Smoked During Pregnancy

Barry County has a similar rate to Michigan, almost 20 percent, of live births to mothers who smoked when they were pregnant.



Source: MDHHS, 2014



# Assets and Resources

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An asset is anything that improves the quality of community life. It may be a person, group of people, place, or institution. This inventory will be used as part of the community health improvement planning process to explore the breadth and depth of community assets and resources that may be mobilized to address community health needs.

## Health

### Community health centers

- Barry Community Health Center (Cherry Health)

### Community mental health

- Barry County Community Mental Health Authority

### Complementary/alternative medicine providers

### Dental clinics

- Barry Community Free Clinic

### Dentists

### Disease-based support groups

- Barry County Support Group – Alzheimer’s/ Caregiver
- Barry County Support Group – Parkinson’s
- Low Vision Support Group

### Ear and eye care providers

### Emergency medical transportation

### EMS/EMT

### Hospitals

- Spectrum Pennock Hospital

### Mental health providers

### Nursing homes

- Magnumcare of Hastings
- Tendercare Hastings
- Thornapple Manor

### Pharmacies

### Physical and occupational therapists

### Pregnancy support

- Delton Women’s Center
- My Alpha Place

### Public health department

- Barry-Eaton District Health Department

### Private physicians

### Rehabilitation, home health, and hospice providers

- Bronson at Home
- Spectrum Health Pennock Homecare

### School counselors

### School nurses

### Substance abuse treatment and recovery providers

### Urgent care centers

- Spectrum Health Pennock Urgent Care

## Recreational

### 4-H and County Fairs

- Barry County 4-H Program
- Barry County Fair

### Campgrounds

### Canoe/kayak/raft rental

### Community centers and community education

- Barry Community Enrichment Center
- Hastings Community Education and Recreation Center

### Conservation activities

- Barry Conservation District
- Barry County Conservation Club

### Fitness clubs

### Golf courses

- Gun Ridge Golf Course
- Hastings Country Club
- Mulberry Fore Golf Course
- Mullenhurst Golf Course
- Yankee Springs Golf Course

### Horseback riding

- Flying Horseshoe Ranch
- YMCA of Barry County

### Parks

- Barry County Parks and Recreation

### Races

- Barry-Roubaix race
- Hastings Summerfest Run
- Middleville Heritage Day River Run

### School-based athletics

### Swimming

### Trails

- North Country Trail
- Paul Henry Thornapple Trail
- Yankee Springs trails

### Non-profit recreation and fitness organizations

- AYSO
- Boys and Girls Club of Greater Kalamazoo
- Circle Pines Center
- Little League
- YMCA of Barry County





# Assets and Resources

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## **Housing**

### Aging-in-place efforts

- Right at Home In-Home Care and Assistance

### Assisted and/or independent living facilities

- Carveth Village of Middleview
- Cornerstone Assisted Living
- Flower House Assisted Living
- River Ridge Assisted Living
- Spectrum Health Pennock Village
- Woodlawn Meadows Retirement Village

### Child and adult foster care

### Homelessness prevention and housing organizations

- Hastings SDA Community Service Center
- Housing Services of Mid-Michigan
- Middleville Housing Commission

### Home-building charities

- Habitat for Humanity Barry County

### Rental housing

### Subsidized housing

### Utility assistance organizations

- MDHHS Barry County
- Salvation Army (Battle Creek)

### Weatherization, home improvement, and home safety programs

- Barry County Commission on Aging
- Barry County Home Improvement Program
- Community Action
- Habitat for Humanity

## **Food Systems**

### Community-supported agriculture

- Maple Leaf Farm and CSA
- Sandhill CSA

### Community gardens

- Delton Community Garden
- Hastings Community Garden
- Middleville Community Garden
- Nashville Community Garden

### Congregate/home-delivered meals

- Barry County Commission on Aging
- Meals on Wheels
- Meet up and Eat up
- Pet Meals on Wheels

### Emergency food

- Emergency Food Assistance Program
- MDHHS Barry County

### Farmers Markets

- Hastings Farmers Market

- Middleville Farmers Market

### Food pantries banks

- Barry County Cares
- Food Bank of South Central Michigan
- Food pantries

### Food policy and systems change

- B. Healthy Coalition

### Food purchasing/acquisition programs

- Commodity Supplemental Food Program
- Double Up Food Bucks
- Fresh Food Initiative
- Project FRESH
- Senior Project FRESH / Market FRESH
- SNAP
- WIC

### Free/reduced school breakfast and/or lunch

### Full-service grocery stores

- Family Fare
- Middleville Market Place
- Save-a-Lot
- Wal-Mart Supercenter

### MSU Extension Barry County

## **Public Safety**

### 911 Dispatch

### Anti-bullying

- Barry County SATF Youth Leadership Summit

### Barry County Parole and Probation

### Barry County School Liaison

### Child /adult abuse prevention

- Family Support Center
- Safe Harbor Children's Advocacy Center
- MDHHS Child and Adult Protective Services

### Domestic violence response organizations

- Green Gables Haven Community Shelter
- S.A.F.E. Place (Battle Creek)

### Emergency preparedness

- American Red Cross of Barry County
- Barry County Emergency Management Department
- Barry County United Way
- Barry-Eaton District Health Department
- Salvation Army (Battle Creek)

### EMS/EMT

### Environmental protection

- Barry-Eaton District Health Department
- DEQ Grand Rapids District Office
- Pierce Cedar Creek Institute

### Fire departments



# Assets and Resources

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## **Public Safety, cont.**

### Jails

- Barry County Jails

### Law enforcement

### Local public health

- Barry-Eaton District Health Department

### Licensing

- Boater's safety
- Driver' education
- CCW
- Quad and snowmobile

### Neighborhood watch

- Barry County Sherriff Auxiliary

## **Cultural**

### Community events and festivals

- Barry County Fair
- Buttermilk Jamboree
- Delton Founders Festival
- Gus Macker
- Hastings Harvest Festival
- Hastings Summerfest
- Thornapple Arts Council Jazz Festival
- Thornapple Woodpecker Festival

### Crafts and enrichment programs/resources

- Barry County 4-H
- Barry County Antique Show
- Barry County Enrichment Center

### Historical organizations

- Barry County Genealogy Club
- Barry County Historical Society
- Historic Bowens Mill
- Middleville Sun Archive Project
- Thornapple Heritage Association

### Museums

- Bernard Historical Museum
- Charlton Park Village, Museum, and Recreation Area
- Gilmore Car Museum
- Midwest Miniatures Museum

### Nature centers

- Pierce Cedar Creek Institute

### Performing arts organization

- Thornapple Arts Council
- Thornapple Players

### Theaters

- Dennison Performing Arts Center

## **Educational**

### Barry Intermediate School District

### Charter and private schools

### Childcare and preschool providers

- Barry County Early Head Start and Head Start

### College

- Kellogg Community College–Fehsenfeld

### Homeschool organizations

### K-12 school districts

### MSU Extension Barry County

### Public libraries

- Delton District Library
- Dowling Public Library
- Freeport District Library
- George W. Spindler Memorial Library
- Hastings Public Library
- Putnam District Library
- Thornapple Kellogg Community Library

### Senior center

- Barry County Commission on Aging

### Truancy intervention

- Barry County Youth Service Bureau

### Tutoring/mentoring organizations

- Barry County Big Brothers Big Sisters
- Barry County Foster Grandparent Program
- Family Mentoring Network
- Fatherhood / Male Involvement classes

### Virtual and online learning

- Hastings High School Virtual Academy
- Michigan Virtual University

### Vocational/trade school

- Michigan Career and Technical Institute

## **Transportation**

### Airport

- Hastings City / Barry County Airport

### Bicycle infrastructure

### Complete Streets policies

- Middleville Complete Streets

### Mobility managers

### Park n' Ride & Carpool Services

- Nashville / Maple Valley Carpool Lot
- Woodland Carpool Lot

### Public, health, and senior transportation

- American Red Cross Transportation Services
- Barry County Transit

### Regional transportation and land use planning

- Southcentral Michigan Planning Council



# Assets and Resources

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## **Transportation, cont.**

### Roads/Road Commissions

- Barry County Road Commission

### Safe Routes to School policies

- Hastings Safe Routes to School

### Taxis

## **Organizational**

### 12-step organizations (AA)

- Barry County Serenity Club
- Barry County Community Mental Health Authority

### Crisis intervention

- Barry County Community Mental Health Authority

### Chambers of commerce / economic development

- Barry County Chamber of Commerce and Economic Development Alliance
- Delton Area Business Association
- Hastings Downtown Development Authority

### Disability assistance providers

- Disability Network of Southwest Michigan

### Faith-based organizations

- Barry County Cares
- Forgotten Man Ministries (jail ministry)

### Human services collaboratives

### Legal assistance providers

- Legal Services of South Central Michigan

### Local charities, grant-makers, and foundations

- Barry Community Foundation
- Spectrum Health Foundation Pennock

### Michigan Department of Health and Human Services

### Multi-sector coalitions

- Barry Community Resource Network
- Barry County Access to Care Coalition
- Barry County Substance Abuse Task Force
- Barry Great Start
- B. Healthy Coalition

### Non-governmental organizations

- Community Action

### Partnerships

- Barry-Eaton District Health Department and Spectrum Pennock Hospital
- Barry-Eaton District Health Department and Cherry Health

### Senior assistance organizations

- Barry County Commission on Aging

- Region 3B Agency on Aging

### Service organizations

- Elks Club Lodge #1965
- Hastings Lions Club
- Kiwanis Club of Hastings
- Rotary Club of Hastings

### Veteran assistance organizations

- Barry County Veterans Affairs

### Volunteer organizations

- American Red Cross of Barry County
- Barry County United Way

## **Employment**

### Farmers and rural employers

### Labor organizations

- UAW Local 138

### Major employers (top five)

- Bradford White Corp
- Spectrum Pennock Hospital
- Hastings Mutual Insurance Co.
- Flex Fab LLC
- Viking Corp

### Public employers

### Rehabilitation services

- Michigan Rehabilitation Services – Southwest Michigan District Office

### School co-ops and internships

### Self-employed and start-ups

### Small employers

### Unemployment and job-placement services

- Manpower
- West Michigan Works!–Hastings