Community Health Needs Assessment

UP Health System — Portage

Houghton County, Michigan
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Perspective / Overview

Creating a culture of health in the community
The Action Cycle shows how to create healthy communities. The rankings later in the document assist in understanding what makes a healthy community.

The Community Health Needs Assessment (CHNA) uses systematic, comprehensive data collection and analysis to define priorities for health improvement, creates a collaborative community environment to engage stakeholders, and an open and transparent process to listen and truly understand the health needs of Houghton County, Michigan.

This document is a hospital facility-specific Community Health Needs Assessment (CHNA) for UP Health System—Portage.

UP Health System—Portage as the sponsors of the assessment, engaged national leaders in community health needs assessments to assist in the project. Stratasan, a healthcare analytics and facilitation company based out of Nashville, Tennessee, provided the analysis of community health data and surveys, facilitated the focus group, and facilitated a community health summit to receive community input into the priorities and brainstorm goals and actions the community could take to improve health.

• Starting on October 15, 2019, this report is made widely available to the community via UP Health System—Portage’s website PortageHealth.org and paper copies are available free of charge at UP Health System—Portage, 500 Campus Drive, Hancock, MI 49930 or by phone 906-483-1000.
• UP Health System—Portage’s board of directors approved this assessment and the hospital’s implementation plan on November 26, 2019.

Project Goals

• To continue a formal and comprehensive community health assessment process which allows for the identification and prioritization of significant health needs of the community to assist with resource allocation, informed decision-making and collective action that will improve health.

• To continue a collaborative partnership between all stakeholders in the community by seeking input from persons who represent the broad interests of the community.

• To support the existing infrastructure and utilize resources available in the community to instigate health improvement in the community.

“We continue the Community Health Needs Assessment with the goal to assess the health and needs of the community. This process is an affirmation of what we've been doing to improve health and has jumpstarted our next implementation plan,” said Randy Neiswonger, CEO UP Health System—Portage

“The information gathered both from public health data and from community stakeholders provided the insight the community needed to set priorities for significant health issues and will be used by the community to inform and support our implementation plans,” added Amanda Falkenhagen, Marketing and Communications Coordinator, UPHS—Portage.
Community Input and Collaboration
Data Collection and Timeline

In March 2019, UP Health System—Portage began a Community Health Needs Assessment for Houghton County. They sought input from persons who represent the broad interests of the community using several methods:

- Information gathering, using secondary public health sources, occurred in August 2019.
- The Western Upper Peninsula Health Department conducted a 12-page health survey in August to September of 2017 which was referenced in this assessment. 359 people responded from Houghton and Keweenaw Counties. (Houghton and Keweenaw counties results were combined)
- An online survey of UP Health System—Portage employees and community physicians was conducted August 5 through September 5, 2019. 124 employees and 2 providers participated in the survey.
- 12 community members, not-for-profit organizations representing medically underserved, low-income, minority populations, and the elderly participated in a focus group on August 6, 2019.
- A Community Health Summit was conducted on September 18, 2019 with 18 community stakeholders. The audience consisted of healthcare providers, business leaders, government representatives, schools, not-for-profit organizations, employers and other community members.

Information Gaps

While this assessment was quite comprehensive, it cannot measure all possible aspects of health in the community, nor can it adequately represent all possible populations of interest. It must be recognized that these information gaps might in some ways limit the ability to assess all the community’s health needs.

Participation by Those Representing the Broad Interests of the Community

515 individuals collaborated to implement a comprehensive CHNA process focused on identifying and defining significant health needs, issues, and concerns of Houghton County. The three-month process centered on gathering and analyzing data as well as receiving input from persons who represented the broad interests of the community to provide direction for the community and hospital to create a plan to improve the health of the communities.
Participation in the focus group and at the Community Health Summit creating the Houghton County Community Health Needs Assessment and Improvement Plan included:

<table>
<thead>
<tr>
<th>Organization</th>
<th>Population Represented</th>
<th>How Involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>City of Hancock</td>
<td>Everyone</td>
<td>Focus Group</td>
</tr>
<tr>
<td>Community</td>
<td>All</td>
<td>Summit</td>
</tr>
<tr>
<td>Copper Country Great Start Collaborative</td>
<td>young children 0-8</td>
<td>Summit</td>
</tr>
<tr>
<td>Copper Country Mental Health</td>
<td>All</td>
<td>Summit</td>
</tr>
<tr>
<td>Finlandia University</td>
<td>All</td>
<td>Summit</td>
</tr>
<tr>
<td>Hancock City Council</td>
<td>All</td>
<td>Summit</td>
</tr>
<tr>
<td>Hancock Public Schools</td>
<td>Kids</td>
<td>Focus Group, Summit</td>
</tr>
<tr>
<td>Houghton-Portage Township Schools</td>
<td>Kids</td>
<td>Focus Group</td>
</tr>
<tr>
<td>Mercy EMS Inc.</td>
<td>All</td>
<td>Summit</td>
</tr>
<tr>
<td>Michigan Tech University</td>
<td>Youth</td>
<td>Focus Group, Summit</td>
</tr>
<tr>
<td>Michigan Tech Employees Federal Credit Union</td>
<td>All</td>
<td>Summit</td>
</tr>
<tr>
<td>Portage Health Foundation</td>
<td>Everyone</td>
<td>Focus Group, Summit</td>
</tr>
<tr>
<td>UGLFitC</td>
<td>All</td>
<td>Summit</td>
</tr>
<tr>
<td>UP Health System—Portage</td>
<td>Everyone</td>
<td>Focus Group, Summit</td>
</tr>
<tr>
<td>Upper Great Lakes Family Health Center</td>
<td>Everyone</td>
<td>Focus Group</td>
</tr>
</tbody>
</table>

In many cases, several representatives from each organization participated.

**Input of the Medically Underserved, Low-Income, and Minority Populations**

Input of medically underserved, low-income and minority populations was received during the focus groups, surveys, and the Community Health Summit. Agencies representing these population groups were intentionally invited to the focus groups and Summit. Additionally, the community survey was distributed through the health departments and other agencies serving the low-income, medically underserved and minority populations. The community survey was representative of the whole community—by age, income, and education.

**Input of those with Expertise in Public Health**

Several attempts were made to contact the Western Upper Peninsula Health Department for inclusion in the process, but the contacts were unanswered.

UP Health System—Portage partnered with 32 agencies and organizations to contribute to the 2018 Upper Peninsula Community Health Needs Assessment in 2018. This assessment references the behavioral risk factor survey of the Upper Peninsula conducted by the Western Upper Peninsula Health Department in August and September 2017.
Community Engagement and Transparency

Many members of the community participated in the focus groups, employee and physician surveys, and the summit. We are pleased to share the results of the Community Health Needs Assessment with the rest of the community in hopes of attracting more advocates and volunteers to improve the health of Houghton County. The following pages highlight key findings of the assessment. We hope you will take the time to review the health needs of our community as the findings impact each and every citizen in one way or another; and join in the improvement efforts.

Community Selected for Assessment

Houghton County was the primary focus of the CHNA due to the service area of UP Health System—Portage. Used as the study area, Houghton County provided 86% of inpatient discharges to UPHS—Portage. The community includes medically underserved, low-income and minority populations who live in the geographic areas from which UP Health System—Portage draws its patients. All patients were used to determine the service area without regard to insurance coverage or eligibility for financial assistance under UP Health System—Portage’s Financial Assistance Policy.

UP Health System—Portage Study Area
Key Findings
Based on the primary and secondary data, focus group and surveys the following needs were prioritized by attendees at the Community Health Summit. The remainder of the document outlines the process and data.

1. Substance use
2. Mental health
3. Healthy eating/Active living – Obesity
4. Access to care
5. Socioeconomics

**Process and Methods**

Both primary and secondary data sources were used in the CHNA.

**Primary methods included:**
- Community focus group
- Paper surveys of community members
- Online survey of hospital employees and community physicians
- Community Health Summit

**Secondary methods included:**
- Public health data – death statistics, County Health Rankings, cancer incidence
- Demographics and socioeconomics – population, poverty, uninsured, unemployment
- Psychographics – behavior measured by spending and media preferences
Description of Communities Served
Demographics of the Community 2019-2024

The table below shows the demographic summary of Houghton County compared to Michigan and the U.S.

<table>
<thead>
<tr>
<th></th>
<th>Houghton County</th>
<th>Michigan</th>
<th>USA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Population</td>
<td>37,480</td>
<td>10,097,897</td>
<td>332,417,793</td>
</tr>
<tr>
<td>Median Age</td>
<td>34.3</td>
<td>40.4</td>
<td>38.5</td>
</tr>
<tr>
<td>Median Household Income</td>
<td>$46,191</td>
<td>$55,885</td>
<td>$60,548</td>
</tr>
<tr>
<td>Annual Pop. Growth (2019-2024)</td>
<td>-0.16%</td>
<td>0.27%</td>
<td>0.77%</td>
</tr>
<tr>
<td>Household Population</td>
<td>14,481</td>
<td>3,983,294</td>
<td>129,922,162</td>
</tr>
<tr>
<td>Dominant Tapestry</td>
<td>Small Town Simplicity (12C)</td>
<td>Salt of the Earth (6B)</td>
<td>Green Acres (6A)</td>
</tr>
<tr>
<td>Businesses</td>
<td>1,538</td>
<td>342,696</td>
<td>12,112,147</td>
</tr>
<tr>
<td>Employees</td>
<td>15,443</td>
<td>4,760,106</td>
<td>150,271,675</td>
</tr>
<tr>
<td>Medical Care Index*</td>
<td>81</td>
<td>96</td>
<td>100</td>
</tr>
<tr>
<td>Average Medical Expenditures</td>
<td>$1,634</td>
<td>$1,919</td>
<td>$2,005</td>
</tr>
<tr>
<td>Total Medical Expenditures</td>
<td>$23.7 M</td>
<td>$7.6 B</td>
<td>$251.0 B</td>
</tr>
</tbody>
</table>

Racial and Ethnic Make-up

<table>
<thead>
<tr>
<th></th>
<th>Houghton County</th>
<th>Michigan</th>
<th>USA</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>93%</td>
<td>77%</td>
<td>68%</td>
</tr>
<tr>
<td>Black</td>
<td>1%</td>
<td>14%</td>
<td>13%</td>
</tr>
<tr>
<td>American Indian</td>
<td>1%</td>
<td>1%</td>
<td>1%</td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>3%</td>
<td>3%</td>
<td>7%</td>
</tr>
<tr>
<td>Other</td>
<td>0%</td>
<td>2%</td>
<td>7%</td>
</tr>
<tr>
<td>Mixed Race</td>
<td>2%</td>
<td>3%</td>
<td>4%</td>
</tr>
<tr>
<td>Hispanic Origin</td>
<td>2%</td>
<td>5%</td>
<td>19%</td>
</tr>
</tbody>
</table>

Source: ESRI

*The Medical Care Index is household-based, and represents the amount spent out of pocket for medical services relative to a national index of 100. The median is the value at the midpoint of a frequency. There is an equal probability of falling above or below the median.

Houghton County

Source: ESRI
• The population of Houghton County is projected to decrease from 2019 to 2024 (0.16% per year). Michigan is projected to increase 0.27% per year, and the U.S. 0.77% per year.

• Houghton County had a lower median age (34.3 median age) than MI (40.4 median age) and the U.S. (38.5 median age). Houghton County percentage of the population 65 and over was 18.1%, higher than the US population 65 and over at 16%.

• Houghton County had a lower median household income at $46,191 than MI at ($55,885) and the U.S. ($60,548). The rate of poverty in Houghton County was 14.9% which was higher than MI (7.7%) and the U.S. (13.4%).

• The household income distribution of Houghton County was 17% higher income (over $100,000), 55% middle income and 28% lower income (under $24,999).

• The medical care index measures how much the populations spent out-of-pocket on medical care services. The U.S. index was 100. Houghton County was 81, indicating 19% less spent out of pocket than the average U.S. household on medical care (doctor’s office visits, prescriptions, hospital visits). Additionally, each household spent an estimated $4,763 on the combination of medical care and health insurance per year.

• The racial and ethnic make-up of Houghton County was 93% white, 2% Hispanic Origin, 2% mixed race, 1% black, 1% American Indian, and 3% Asian/Pacific Islander. (These percentages total to over 100% because Hispanic is an ethnicity, not a race.)

**2018 Population by Census Tract and Change (2018-2023)**

Source: ESRI

Red is population decline  Green is greater than the MI growth rate
Yellow is positive up to the MI growth rate  Dark Green is twice the MI growth rate

Census tracts generally have a population size between 1,200 and 8,000 people, with an optimum size of 4,000 people. The census tracts with the highest population were Houghton and Hancock.

Houghton County’s population was projected to decrease from 2018 to 2022. However, there are a few census tracts where the population was projected to increase. The highest growing census tract was in south western Houghton County, projected to grow greater than the MI growth rate. Southern Houghton and the Calumet, Schoolcraft tracts are projected to decline in population. The areas around Calumet and Schoolcraft including Hancock and Houghton are projected to increase up to the MI growth rate of .25% per year.
2018 Median Age and Income

These maps depict median age and median income by census tract. Looking at age and income by census tract is helpful to demonstrate all areas of a county are not the same. The health needs may be very different in Houghton in Houghton County with a median age of 22 and the census tract on the eastern edge of the county with a median age of 48.

Looking at median household income by census tract also gives insight into health status. The lower income areas may have lower health outcomes than the higher income tracts. Lower income areas were in the northern section of Houghton County near Calumet Township with $37K and $38K, near Hancock with $35K and $18K near the university.

The lower map is the number of households making less than $15,000 per year. Again, further attempting to identify those areas within the county that may have lower health status. Hancock had 329 households making less than $15,000. Houghton had 739 households making less than $15,000 per year.

Houghton County’s unemployment was 5.1% (May 2019 preliminary data), higher than MI at 4.2% and the U.S. at 3.6%.
Business Profile

Sixty-six percent of employees in Houghton County were employed in:

- Retail trade (16.1%)
- Health care and social assistance (15.5%)
- Educational services (15.3%)
- Accommodation and food services (12.1%)
- Public administration (7.1%)

Houghton County loses 153 net commuters per day commuting outside the county for work, with 1,082 commuting into the county and 1,235 commuting out of the county.

It is beneficial to contact people in groups to improve health. There are three primary places people gather during the week, work, church and school. These are three excellent places to reach people to create a culture of health.

Tapestry Segmentation

Demographics are population, age, sex, race. Psychographics are adding behavior data in the form of spending habits and survey data on top of demographics. 50% of Houghton County are included in three Tapestry Segments. The map below is census tracts color coded by LifeMode, which are groupings of Tapestry Segments that behave similarly.

The dominant Tapestry Segments in the counties were Small Town Simplicity (20%), Heartland Communities (20%), and College Towns (11%). The map below shows the number and letter representing the dominant Tapestry Segment by census tract.

There is a very brief description of the segments on the right of the map. There is much more information on Tapestry Segments, at http://doc.arcgis.com/en/esri-demographics/data/tapestry-segmentation.htm. Studying the Tapestry Segments in the study area helps determine health habits and communication preferences of residents enabling more effective communication and implementation of solutions to improve health.
Community Input: Focus Group, Survey Results

Focus Group Results

Nineteen community stakeholders representing the broad interests of the community as well as representing low income, medically underserved and minority populations participated in a focus group and one individual interview on August 7, 2019 for their input into the community's health. Community participation in the focus groups and interviews represented a broad range of interests and backgrounds. Below is a summary of the 90-minute focus group discussions and the individual interview.

1. How do you define health?
   - Physical, emotional, spiritual, and financial wellbeing
   - Professional/career health, happy in the job
   - Overall wellness and wellbeing encompassing all areas of life
   - Safe community

2. Generally, how would you describe the community’s health?
   - Room for improvement
   - C+
   - Feel more positive, people want to live here, active winter and summer. People want to move back here for the activities and sense of community. Trusting, nice people here, resilient.
   - Tends to be more reactive than proactive. More people seek care because of a condition instead of practicing prevention.

3. What are the most important health issues facing Houghton County?
   - Substance abuse
     - Tobacco (smoking, chewing and vaping): Chewing is a normal activity. Smoking at the universities is seen more in the international students. Smoking seems highest in the lower economic groups, and is used as a coping mechanism.
     - Methamphetamine
     - Heroin
     - Alcohol: There is general alcohol culture in the population, especially in the Native American population (and tobacco use). People are using alcohol young, and not seeing it as a big deal. With two universities in the area, there are binge drinking issues. Students use alcohol to cope with issues, anxiety, and seasonal depression.
     - Marijuana: There is a lack of controls or proactive approaches to management.
     - Opioids: Similar to the national trend, use is growing and starting younger. Prescription patterns are down, but overdose deaths are not decreasing.
     - We don't see an uptick in crime due to substance abuse.
     - The attitude of “that’s their problem, not mine” hasn’t removed the stigma from abuse.
» Sheltered community
» Youth vaping
- Lack of mental health providers
- Sedentary lifestyles
- Food insecurity
- Access to fresh, healthy food is limited. 18% food insecure, 21% in college population where they’re unsure where their next meal would come from. Quality of food per purchase issue, dollar doesn’t go as far as other parts of the country.
- Dental health
- Diabetes
- Heart Disease
- Difficult getting care for cancer

4. The community performed a CHNA in 2016 and identified the following priorities for health improvement:

1. Mental Health
2. Obesity
3. Substance abuse
4. Access to care, providers
5. Aging/Chronic diseases
6. Socioeconomic Issues

- What has the community improved the most related to health status in 3 years?
  » Mental health is worse, access to mental health worse – national trend. Funding has been cut statewide for mental health due to budget issues. The federal government has increased funding for behavioral health – more for FQHCs for social workers and telehealth. Need the service, but hard to have a solvent service line. Beds are closing, funding keeps getting cut, underfunded. Outpatient side greater resources for infrastructure.
  » Aging population – exporting the youth, but they try to come back.
  » Sense of community, strong family units, take care of each other
  » Don't have job infrastructure to keep people here. Finite numbers of opportunities here. Top employers, healthcare, education and government.

5. What behaviors have the most negative impact on health?
- Smoking, vaping, chewing
- At 18, feel like they’ll live forever, invincible.
- Do a lot of outreach and could help more with screenings, but people aren’t thinking about their health and don’t get screenings. Rugged individuals. All so busy, don’t want to fill any more of their day.
- Social media – kids being connected 24/7 and creating unrealistic expectations
- Kids need to get off the phone and get outside. They don't get outside. What kind of adults are we creating? No social skills, can't answer a phone, can't do things in person, can't make a doctor's appointment.
6. **Were there any barriers to improving health in the last 3 years, what will be the barriers going forward?**
   - Distance, cost and access to places to exercise
   - Physician recruitment
   - Transportation
   - Cost of care – high copays and deductibles, not a lot of traditional insurance plans
   - Lack of adolescent mental health facilities, closest in Grand Rapids
   - Not enough mental health counsellors
   - School counsellors are not equipped or trained to deal with the issues they face
   - Resources are strained
   - Communication to older people. They don’t know the resources. They’re isolated and don’t use social media.

7. **What community assets support health and wellbeing?**
   - Large Lutheran faith base – and how they perceive health, Old Apostolic and New Apostolic
   - Teamwork, collaboration, people have to work together
   - Recreational infrastructure
   - Sense of community
   - Volunteers – willing to give if family in need
   - Sense of family, family ties here
   - Support services – volunteer fire department
   - Decent legislative support, good relationship with representatives, involved
   - Academics good – K through 12 impressive
   - Universities and Community College – offer inside opportunities for exercise. Helpful for recruiting employees locally, nursing programs.
   - There isn’t a sense of competition except between hospitals. There’s synergy between entities.
   - Little Brothers of the Poor in Houghton

8. **Where do members of the community turn for basic healthcare needs?**
   - FQHC
   - Express Care
   - Closest ED
   - Issue that some people won’t cross the bridge. The bridge goes up, gets stuck, needs maintenance.
   “We don’t do traffic well here.”
9. If you had a magic wand, what priority health improvement action should the Counties focus on?

- More behavioral health in school to help with coping mechanisms
- Trauma informed care training in schools and understood all over the community.
- Prevention strategies
- Communication about what works and what doesn't and replicate what works
- Communicate to the masses – newspaper, social media, billboards
- Dealing with acute crises instead of prevention
- Government needs to be involved
- Lower the cost of prescription drugs
- Clinic in every high school
- Improve security so people feel safe in schools and public areas
- Recreation center at low or no cost, health park included with navigators.
- Increase public transportation that goes county-wide so people can get to appointments and grocery store
- More jobs
- Community coalition to coordinate efforts

Houghton and Keweenaw County Community Surveys

Survey Process

The Western Upper Peninsula Health Department conducted a behavioral risk factor survey to provide county-level data on physical and mental health status; access to primary care, dental care, mental health counseling and substance abuse treatment services; use of screening and preventive health care services; prevalence of chronic diseases and disabilities; and certain behaviors linked to health status, morbidity, and mortality, including diet, exercise, and use of alcohol, tobacco and other drugs. The survey was inspired by and modeled on the Centers for Disease Control and Prevention's Behavioral Risk Factor Surveys, BRFS. The survey was a random sample of sample of adults conducted by mail.

Houghton and Keweenaw Counties were combined and 359 surveys were completed. The surveys were weighted to the population and analyzed by Kelly Kamm, PHD from the Department of Kinesiology and Integrative Physiology, Michigan Technological University in Houghton. The survey was conducted August to September 2017. (Upper Peninsula Community Health Needs Assessment 2018, Western U.P. Health Department, p.195) The red on the table indicates where responses were worse than the State and green represents where responses were better than the State. Stratasan added the coloring to the tables.
## Survey Results

<table>
<thead>
<tr>
<th>Health Indicator</th>
<th>Houghton &amp; Keweenaw</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Health Status Only Fair or Poor</td>
<td>23.3%</td>
<td>18.0%</td>
</tr>
<tr>
<td>Unable to Access Healthcare Due to Cost</td>
<td>21.8%</td>
<td>12.8%</td>
</tr>
<tr>
<td>No Routine Checkup in the Past 12 Months</td>
<td>28.8%</td>
<td>26.9%</td>
</tr>
<tr>
<td>No Dental Care Past 12 Months</td>
<td>41.7%</td>
<td>29.9%</td>
</tr>
<tr>
<td>Obese (BMI 30 or greater)</td>
<td>40.3%</td>
<td>32.5%</td>
</tr>
<tr>
<td>Current Cigarette Smoker</td>
<td>19.0%</td>
<td>20.4%</td>
</tr>
<tr>
<td>Former Smoker</td>
<td>37.3%</td>
<td>25.8%</td>
</tr>
<tr>
<td>5+ Servings of Fruits &amp; Vegetables</td>
<td>8.0%</td>
<td>14.4%</td>
</tr>
<tr>
<td>Ever Diagnosed with Diabetes</td>
<td>12.5%</td>
<td>11.2%</td>
</tr>
<tr>
<td>Ever Diagnosed with Heart Disease</td>
<td>14.4%</td>
<td>5.1%</td>
</tr>
<tr>
<td>Ever Diagnosed with Cancer</td>
<td>19.0%</td>
<td>12.8%</td>
</tr>
<tr>
<td>Ever Diagnosed with Depressive Disorder</td>
<td>20.7%</td>
<td>22.0%</td>
</tr>
<tr>
<td>Took Medication for Mood Past 12 Months</td>
<td>18.7%</td>
<td>N/A</td>
</tr>
<tr>
<td>Heavy Alcohol Drinker</td>
<td>19.2%</td>
<td>6.9%</td>
</tr>
<tr>
<td>Binge Alcohol Drinker</td>
<td>20.5%</td>
<td>19.0%</td>
</tr>
<tr>
<td>Used Marijuana Past 30 days</td>
<td>11.8%</td>
<td>N/A</td>
</tr>
<tr>
<td>Ever Used Prescription Drugs to Get High</td>
<td>6.1%</td>
<td>4.7%</td>
</tr>
<tr>
<td>Had Flu Shot in Past 12 Months</td>
<td>74.8%</td>
<td>56.1%</td>
</tr>
<tr>
<td>Colorectal Cancer Screening, Age 50+</td>
<td>78.9%</td>
<td>69.7%</td>
</tr>
</tbody>
</table>

## Adult Health Disparities by Income

<table>
<thead>
<tr>
<th>Health Indicator</th>
<th>&lt; $25,000</th>
<th>$50,000+</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Fair or Poor</td>
<td>29.9%</td>
<td>5.1%</td>
</tr>
<tr>
<td>Uninsured (18-64)</td>
<td>10.6%</td>
<td>4.9%</td>
</tr>
<tr>
<td>Unable to Access Care Due to Cost</td>
<td>19.2%</td>
<td>11.3%</td>
</tr>
<tr>
<td>No Dental in Past Year</td>
<td>55.1%</td>
<td>18.1%</td>
</tr>
<tr>
<td>Current Smoker</td>
<td>31.9%</td>
<td>10.5%</td>
</tr>
<tr>
<td>No Physical Activity</td>
<td>22.7%</td>
<td>10.4%</td>
</tr>
<tr>
<td>Diabetes Diagnosis</td>
<td>15.6%</td>
<td>6.5%</td>
</tr>
<tr>
<td>Heart Disease</td>
<td>12.0%</td>
<td>6.4%</td>
</tr>
<tr>
<td>Chronic Lung Disease</td>
<td>14.0%</td>
<td>3.0%</td>
</tr>
<tr>
<td>Current Asthma</td>
<td>14.1%</td>
<td>10.5%</td>
</tr>
<tr>
<td>Limited By Arthritis</td>
<td>44.4%</td>
<td>21.4%</td>
</tr>
<tr>
<td>Depressive Disorder</td>
<td>37.6%</td>
<td>19.7%</td>
</tr>
<tr>
<td>Marijuana Past Month</td>
<td>15.2%</td>
<td>4.5%</td>
</tr>
<tr>
<td>Prescription Abuse</td>
<td>4.4%</td>
<td>2.3%</td>
</tr>
<tr>
<td>Drove after Drinking</td>
<td>10.0%</td>
<td>5.5%</td>
</tr>
</tbody>
</table>

The table above demonstrates the health disparities by income. In all of the categories, the lower income respondents had worse responses than the respondents making $50,000 and above.
Hospital Employee and Community Physicians Survey

Survey Process

UP Health System - Portage conducted employee and physician surveys about the health of Houghton County. A total of 124 employees and 2 physicians completed the on-line surveys. The surveys were conducted between August 5 through September 5, 2019. Due to the small sample size of providers, their answers do not represent the other providers in the community.

How would you describe the overall health status of the citizens of Houghton County?

Healthcare providers see sick people most of their day, so their response skews higher in the fair and poor categories than in the Health Department survey or the BRFSS survey.

What are the most prevalent chronic diseases in your community?

However, health care providers would have a good sense of chronic diseases in the communities. The employees thought obesity and mental health were the top two issues followed by diabetes, high blood pressure, cancer and heart disease.
What are the top 3 issues that need to be addressed in your community that impact people's health?

![Chart showing top issues for employees and physicians](chart.png)

Employees thought mental and behavioral health, affordable health insurance, affordable health care, substance abuse services and more specialists were the top issues that need to be addressed.

What are the top 3 health concerns for children in your community?

![Chart showing top concerns for employees and physicians](chart.png)

Employees thought the biggest health concerns for children were physical inactivity, lack of a healthy diet, mental health services, child-care options, responsible, involved parents and substance abuse.
What, if anything, do you think the people in the community need in order to manage their health more effectively?

Affordable healthcare, insurance that’s more affordable, financial assistance and a more integrated approach providers to coordinate care were the top needs for the community to manage their health.
Health Status Data
Based on the 2018 County Health Rankings study performed by the Robert Wood Johnson Foundation and the University of Wisconsin, Houghton County ranked 28th for health outcomes and 19th for health factors (1 = the healthiest; 83 = unhealthiest).

County Health Rankings suggest the areas to explore for improvement in Houghton County were higher adult smoking, higher adult obesity percentage, higher excessive drinking, higher population per primary care physician and higher air pollution. The areas of strength were identified as lower percentage of physical inactivity, lower teen births, lower uninsured, lower preventable hospital stays, higher mammography screening and higher flu vaccinations, higher percentage of adults with some college, lower unemployment, lower percentage of children in poverty, and lower income inequality.

When analyzing the health status data, local results were compared to Michigan, the U.S. (where available), and the top 10% of counties in the U.S. (the 90th percentile). Where Houghton County’s results were worse than MI and U.S., groups and individuals have an opportunity to act and improve these community measures. To become the healthiest community in Michigan and eventually the Nation, Houghton County must close several lifestyle gaps. For additional perspective, Michigan was ranked the 34th healthiest state out of the 50 states. (Source: 2018 America’s Health Rankings) Michigan’s strengths were higher rate of primary care physicians, low incidence of Salmonella, and high meningococcal immunization coverage among adolescents. Michigan’s challenges were high prevalence of excessive drinking, high incidence of pertussis, low per capita public health funding.

**Comparison of Health Status**

Information from County Health Rankings and America’s Health Rankings was analyzed in the CHNA in addition to the previously reviewed information and other public health data. Other data analyzed is referenced in the bullets below, such as: causes of death, demographics, socioeconomics, consumer health spending, focus groups, and surveys. Data for Michigan, the U.S. or the top 10% of counties (90th percentile) were used as comparisons when available. If a measure was better than Michigan, it was identified as a strength, and where an indicator was worse than Michigan, it was indicated an opportunity for improvement. To prevent strengths from becoming opportunities for improvement, it’s important to continually focus on them. Opportunities were denoted with red symbols, and strengths were denoted with green stars for easy interpretation. The years displayed on the County Health Rankings graphs show the year the data was released. The actual years of the data are contained in the source notes below the graphs.
Health Outcomes (Length of Life and Quality of Life)

Health outcomes are a combination of length of life and quality of life measures. Houghton County ranked 28th in health outcomes out of 83 Michigan counties.

Length of life was measured by years of potential life lost per 100,000 population prior to age 75, lower is better. For example, if a 25-year-old is killed in an accident, that is 50 years of potential life lost prior to age 75. Houghton County ranked 29th in length of life in MI, and lost 6,685 years of potential life per 100,000 population which was lower than MI and the U.S.

Leading Causes of Death: Age-Adjusted Death Rates per 100,000

<table>
<thead>
<tr>
<th>Cause of Death</th>
<th>Houghton County</th>
<th>Michigan</th>
<th>US</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heart Disease</td>
<td>200.9</td>
<td>196.1</td>
<td>165.0</td>
</tr>
<tr>
<td>Cancer</td>
<td>173.0</td>
<td>161.3</td>
<td>152.5</td>
</tr>
<tr>
<td>Accidents (Unintentional Injuries)</td>
<td>33.4</td>
<td>53.0</td>
<td>49.4</td>
</tr>
<tr>
<td>Respiratory Diseases</td>
<td>38.1</td>
<td>44.3</td>
<td>40.9</td>
</tr>
<tr>
<td>Stroke</td>
<td>45.3</td>
<td>39.3</td>
<td>37.6</td>
</tr>
<tr>
<td>Alzheimer’s Disease</td>
<td>40.8</td>
<td>34.5</td>
<td>31.0</td>
</tr>
<tr>
<td>Diabetes</td>
<td>26.3</td>
<td>22.1</td>
<td>21.5</td>
</tr>
<tr>
<td>Influenza and Pneumonia</td>
<td>13.1</td>
<td>14.2</td>
<td>14.3</td>
</tr>
<tr>
<td>Suicide</td>
<td>15.0</td>
<td>14.1</td>
<td>14.0</td>
</tr>
<tr>
<td>Kidney Disease</td>
<td>***</td>
<td>14.7</td>
<td>13.0</td>
</tr>
</tbody>
</table>

Intentional Self-Harm (Suicide) Deaths per 100,000 Population

Red areas had death rates higher than MI. The leading causes of death in Houghton County were heart disease followed by cancer, like MI and the U.S. However, the heart disease and cancer death rates were higher than MI and the U.S. Deaths from stroke, Alzheimer’s Disease, diabetes and suicide rates were higher than MI and the U.S.

In most of the following graphs, Houghton County will be blue, Michigan will be red, U.S. green and the 90th percentile of counties in the U.S. gold. *indicates a change in the Behavior Risk Factor Surveillance System (BRFSS) Survey calculations of results. 2016 forward cannot be compared to prior year results.
Quality of Life

Quality of life was measured by: % reporting fair or poor health, the average number of poor physical health days and poor mental health days in the past 30 days, and % of live births with birthweight less than 2500 grams, or 5.5 lbs. Houghton County ranked 36th in Michigan for quality of life.

Quality of Life Strengths

- Years of potential life lost per 100,000 population prior to age 75 in was lower than at 6,685 than MI and the U.S., but the trend is increasing.
- Houghton County had a lower death rate for accidents, respiratory diseases, and influenza and pneumonia than MI.
- Houghton had the same number of poor mental health days in the past 30 days as MI at 4.4
- Houghton County had a lower percentage, 6%, of low birthweight babies than MI and the U.S.

Quality of Life Opportunities

- Houghton County had higher death rates than MI for heart disease, cancer, stroke, Alzheimer’s Disease, diabetes and suicide.
- Houghton County had a higher percentage of adults reporting poor or fair health than MI (and the U.S.) at 17%
- Houghton County had higher average number of poor physical health days than MI at 4.4 and the U.S. at 3.7.
**Health Factors or Determinants**

Health factors or determinants rankings are comprised of measures related to health behaviors (30%), clinical care (20%), social & economic factors (40%), and physical environment (10%). Houghton County ranked 19th out of 83 counties in Michigan.

**Health Behaviors**

Health behaviors are made up of nine measures and account for 30% of the county rankings. Houghton County ranked 35th out of 83 counties in Michigan.

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**Reason for Smoking Ranking**

Each year approximately 480,000 premature deaths can be attributed to smoking. Cigarette smoking is identified as a cause of various cancers, cardiovascular disease, and respiratory conditions, as well as low birthweight and other adverse health outcomes. Measuring the prevalence of tobacco use in the population can alert communities to potential adverse health outcomes and can be valuable for assessing the need for cessation programs or the effectiveness of existing programs.

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The food environment index is a comprised of % of the population with limited access to healthy foods and % of the population with food insecurity. Limited access to foods estimates the % of the population who are low income and do not live close to a grocery store. Food insecurity is the % of the population who did not have access to a reliable source of food during the past year.

Source: US Census County Business Patterns, 2016
“In January 2018, the National Academies of Science, Engineering and Medicine\(^1\) released a consensus study report that reviewed over 800 different studies. That report made clear: using e-cigarettes causes health risks. It concluded that e-cigarettes both contain and emit a number of potentially toxic substances. The Academies’ report also states there is moderate evidence that youth who use e-cigarettes are at increased risk for cough and wheezing and an increase in asthma exacerbations. A study from the University of North Carolina found that the two primary ingredients found in e-cigarettes—propylene glycol and vegetable glycerin—are toxic to cells and that the more ingredients in an e-liquid, the greater the toxicity.\(^2\) E-cigarettes produce a number of dangerous chemicals including acetaldehyde, acrolein, and formaldehyde. These aldehydes can cause lung disease, as well as cardiovascular (heart) disease.\(^3\) E-cigarettes also contain acrolein, a herbicide primarily used to kill weeds. It can cause acute lung injury and COPD and may cause asthma and lung cancer.\(^4\)"

\(^1\)NAM Report - [https://www.nap.edu/resource/24952/012318ecigaretteConclusionsbyEvidence.pdf](https://www.nap.edu/resource/24952/012318ecigaretteConclusionsbyEvidence.pdf)


**Neonatal Abstinence Syndrome Rates by County per 1,000 Hospital Births**

Houghton County’s neonatal abstinence syndrome rate was 22.0 and was in the fifth sextile in MI, lower than MI mean rate of 31.1.

**Birth Rates**

The birth rate increased from 9.9 per 1,000 population in 2014 to 10.2 in 2017.
Health Behaviors Strengths

- Adult obesity in Houghton County was lower at 30% than MI but higher than the U.S. Obesity in Michigan and the U.S. continue to rise, putting people at increased risk of chronic diseases including diabetes, kidney disease, joint problems, hypertension and heart disease. Obesity can cause complications in surgery and with anesthesia. It has been implicated in Alzheimer’s Disease and often leads to metabolic syndrome and type 2 diabetes.

- Physical inactivity was lower at 19% than MI and the U.S. both at 22% and in the 90th percentile of all counties.

- Adult smoking was lower in Houghton County (19.76%) than MI at 20% but higher than the U.S. at 17%. Given the dangers of any smoking the percentage should be lower.

- Sexually transmitted infections measured by chlamydia rate per 100,000 population were lower in Houghton County (118) than MI (463) and the U.S. (497).

- The teen birth rates in Houghton County were lower than MI, in the top 10% of all counties, at 11 births per 1,000 female population ages 15-19 with MI at 22 births and the U.S. at 25 births and has decreased since 2016.

- The drug overdose mortality rates in Houghton County were lower than MI and the U.S. Houghton was in the top 10% of all counties.

- Neonatal abstinence syndrome was lower in Houghton County 22 per 1,000 hospital births than MI at 31.1.

- The food environment index was higher (better) than MI. The index increased/improved for since 2016. Houghton County was slightly lower than the U.S.

Health Behaviors Opportunities

- Access to exercise opportunities in Houghton County was 76%, lower than MI at 85%.

- 21% of Houghton County reported binge or heavy drinking higher than MI, and higher than the U.S. at 18%.

- Alcohol impaired driving deaths were higher at 50% than in MI and the U.S. both at 29%.
Clinical Care

Clinical care ranking is made up of seven indicators, and account for 20% of the county rankings. Houghton County ranked 36th out of 83 Michigan counties in clinical care.

Source: Uninsured - County Health Rankings; Small Area Health Insurance Estimates, 2016
Source: Preventable hospital stays, mammography screening – County Health Rankings, CMS Mapping Medicare Disparities Tool, 2016
Source: Flu Vaccines - County Health Rankings, CMS Mapping Medicare Disparities (MMD) Tool, 2016
Source: Pop to PCP - County Health Rankings; Area Health Resource File/American Medical Association, 2016
Source: Pop to Dentists - County Health Rankings; Area Health Resource File/National Provider Identification file, 2017
Source: Pop to mental health provider (psychiatrists, psychologists, licensed clinical social workers, counselors, marriage and family therapists and advanced practice nurses specializing in mental health) County Health Rankings; CMS, National Provider Identification, 2018
Source: Diabetes
Cancer Incidence Rates – MI Counties

![Map showing cancer incidence rates in Michigan counties](image)

**Clinical Care Strengths**

- Preventable hospital stays in Houghton County were 4,006 per 100,000 Medicare enrollees which was lower than MI (5,188) and the U.S. (4,648).
- Mammography screening was higher in Houghton County at 47% than MI at 43% and the U.S. at 40%.
- The percentage of adults aged 20 and above diagnosed with diabetes was lower in Houghton County at 9%, than MI and the U.S. Houghton County was in the top 10% of all counties.
- The cancer cases per 100,000 population were lower in Houghton at 388.5 than MI (449.5).

**Clinical Care Opportunities**

- The uninsured percentages were higher in Houghton County at 7%, than MI, but lower than the U.S. at 10%. The uninsured trend has been declining since 2016.
- The percent of Medicare enrollees with flu vaccines per year was lower in Houghton County at 30% than MI, 45% and the U.S. at 42%.
- The population per primary care physician, dentist and mental health providers was higher in Houghton County than MI and the U.S.
Social and Economic Factors

Social and economic factors account for 40% of the county rankings. There are eight measures in the social and economic factors category. Houghton County ranked 19th out of 83 Michigan counties.


### Social and Economic Factors Strengths

- High school graduation was higher in Houghton County at 87% than MI at 89% and the U.S. at 85%.
- Houghton County had a higher percentage of adults with some postsecondary education than MI and the U.S.
- The children in poverty rate was lower in Houghton County at 15% than MI (20%) and the U.S. (18%).
- Social associations were higher in Houghton County at 13 memberships per 10,000 population than MI at 11 and the U.S. at 9 memberships. Associations include membership organizations such as civic organizations, bowling centers, golf clubs, fitness centers, sports organizations, religious organizations, political organizations, labor organizations, business organizations, and professional organizations.
- Injury deaths were lower in Houghton County at 63 deaths per 100,000 population than MI (72) and the U.S.
- The percentage of children in single-parent households was 21% in Houghton County which was lower than MI at 34% and the U.S. at 33%.
- The violent crime rate measured as violent crimes per 100,000 population was lower in Houghton County at 156 than in MI at 443 and the U.S. at 386.

### Social and Economic Factors Opportunities

- Income inequality was higher in Houghton County than MI and the U.S. at 5 (ratio of household income at the 80th percentile to income at the 20th percentile).
- The median household income in Houghton County was lower at $46,191 than MI $55,885 and the U.S. at $60,548.
- The poverty estimates for 2017 was higher in Houghton County at 14.9% than MI, and the U.S.
- There was a census tract in Calumet with lower household income at $29K and two surrounding tracts with $38K and $37K. The tract that includes the university had $18K median household income.
Physical Environment

Physical environment contains four measures in the category and accounts for 10% of the County rankings. Houghton ranked 4th out of 83 Michigan counties in physical environment.

**Physical Environment Strengths**

- Houghton County had no drinking water violations in the most recent three years.
- Air pollution measured as the average daily measure of matter in micrograms per cubic meter was lower in Houghton County at 6.1 than MI and the U.S. both at 9.
- Houghton County had low percentages of workers commuting alone and driving over 30 minutes.

**Physical Environment Opportunities**

- Houghton County had slightly higher percentage of severe housing problems at 16% than MI, but lower than the U.S.

**Four Broad Themes That Emerged in the Process:**

- Houghton County needs to create a “Culture of Health” which permeates throughout the towns, employers, churches, and community organizations to engender commitment to health improvement.
- There is a direct relationship between health outcomes and affluence (income and education). Those with the lowest income and education generally have the poorest health outcomes.
- While any given measure may show an overall good picture of community health, subgroups such as the lower income census tracts may experience lower health status measures.
- It will take a partnership with a wide range of organizations and citizens pooling resources to meaningfully impact the health of the community. However, Houghton County has many assets to improve health.
Results of the CHNA

Community Health Summit Prioritized Health Needs, Brainstormed Goals and Actions
Prioritization Criteria

At the Community Health Summit, the attendees reviewed the community health information and used the criteria below to prioritize the health needs in the community.

Magnitude/scale of the problem

How big is the problem? How many people does the problem affect, either actually or potentially? In terms of human impact, how does it compare to other health issues?

Seriousness of Consequences

What degree of disability or premature death occurs because of this problem? What would happen if the issue were not made a priority? What is the level of burden on the community (economic, social or other)?

Feasibility

Is the problem preventable? How much change can be made? What is the community’s capacity to address it? Are there available resources to address it sustainably? What’s already being done, and is it working? What are the community’s intrinsic barriers and how big are they to overcome?

Most Significant Community Health Needs

The following needs were prioritized by attendees at the Community Health Summit. Using a nominal group technique, each attendee received three sticky notes and selected their top three health needs and posted their ideas on paper at the front of the room. The results of the activity are below with higher numbers indicating the number of “votes” or priority by topic. The bullets below the health need are many of the comments received on the sticky notes.

1. Substance use
2. Mental health
3. Healthy eating/Active living – Obesity
4. Access to care
5. Socioeconomics

1. Substance Use (16 sticky notes)

- Substance abuse (8)
- Substance use disorder treatment
- Substance use disorder (alcohol, tobacco, opioids)
- Substance abuse, including marijuana
- Substance abuse – high percentage of excessive drinking; high percentage of drugs, alcohol use
- Substance abuse – cigarettes/vapes
- Substance abuse – growing concerns re: vaping and marijuana use, particularly among youth; new
cultural norms that negatively impact health

- Smoking, vaping, tobacco use
- Smoking

2. Mental Health (14 sticky notes)

- Mental health (4)
- Access to mental health providers/services/programs (4)
- Mental health issues with lack of proper treatment/community members ignoring the problems
- Depression/anxiety in kids
- Mental health depression, lack of recreation, difficult to change because of location, lack of specialists
- Mental Health lack of resources, clients placed in low cost rentals
- Mental health – recognition of problem, access to care

3. Healthy eating/active living - Obesity (13 sticky notes)

- Obesity (5)
- Obesity/healthy eating
- Access to good food
- General lack of good nutrition information
- Health care provider lack of nutrition information
- Healthy food – cause: regulation business approach. Resolution: local farms should be selling products in stores.
- Obesity, sedentary life. Cause: computers. Resolution: active workstations. Problem: expensive insurance does not cover
- Food insecurity; food access
- Preventive health education

4. Access to care (8 sticky notes)

- Access to care, providers, primary care (5)
- Access to health care – Regional Medical Center downsized, less services available, Pts traveling further to receive care.
- Apathy toward overall health /wellbeing. Need to reach the people most in need of care
- Chronic diseases/aging

5. Socioeconomics (3 sticky notes)

- Socioeconomic issues
- Income inequality/low income
- Wages/economic issues
Community Health Summit Brainstorming

The most significant health needs coalesced into five categories. Table groups then brainstormed goals and actions for each goal along with resources and collaborators needed. The brainstorm results are below. UPHS Portage and other community organizations can use the brainstorming when creating their plans to improve the health of the community.

Significant Health Need 1 - Substance Use

Goal 1 - Reduce substance abuse prevalence in all demographic groups

Action 1
Poverty initiative (improve economics and job creation)

Action 2
Education on prevention

Resources/Collaborators Needed
Health Systems, School systems, law enforcement, local units of Government, KEDA/MI Works, CTC, Great Lakes Recovery, PHF, Dial Help

Goal 2 - Implement prevention programs within community targeting youth

Action 1
Target youth with school-based programs

Action 2
Build broad community education programs

Resources/Collaborators Needed
School systems, health systems, Portage Health Foundation, Dial Help, radio stations, marketing, health department, Finlandia, Gogebic Community College, Michigan Tech University

Goal 3 - Build a comprehensive network of care for substance abuse (acute treatment, residential services, post-acute outpatient services)

Action 1
Create a collaborative network of providers

Action 2
Build physical infrastructure for services (inpatient, residential, outpatient, housing post treatment)

Resources/Collaborators Needed
Health systems, mental health (CCMH), Great Lakes Recovery, Dial Help, CTC, Portage Health Foundation, MI Works, Communities that Care

Significant Health Need 2 - Access to mental health services

Goal 1 - Set up a mental health community collaboration summit by Q2 2020

Action 1
Reach out to all local organizations that are relevant to participate about the summit
Goal 2 - Develop a plan to increase availability of behavioral health professionals by Q4 2020

**Action 1**
Leverage FQHC for grant money, Leverage Portage Health Foundation for money

**Action 2**
Work with local schools (MI) for increased training of professionals (MSN, BSN, Psychologists, psychiatrists, MSW)

Goal 3 - Develop infrastructure (cross organizations) to support mental health services Q3 2020

**Action 1**
Leverage FQHC for Grant money; leverage Portage Health Foundation for money

**Resources/Collaborators Needed**
Health systems, universities, community colleges, foundations, providers, grants

Significant Health Need 3 - Healthy Eating/Active Living – Obesity

Goal 1 – Conduct an educational event once a quarter focused on healthy living in 2020

**Action 1**
Topic of education – what does it meant to be healthy?

**Action 2**
Build collaborative team to coordinate events and provide resources (Hospitals)

**Resources/Collaborators Needed**
Local hospitals – UPHS Portage, Aspirus Baraga, UGL; schools; churches; Portage Health Foundation; Libraries; BHK

Goal 2 - Promote indoor, free walking spaces and social community during winter months in 2021/22

**Action 1**
Identify possible locations

**Action 2**
Promote the locations

**Resources/Collaborators Needed**
Malls, schools, hospitals, universities

Goal 3 - Promote healthier food options within the community and service organizations

**Action 1**
Suggest healthy options to donate to food pantries and food bank

**Action 2**
Recognize and reward a community member who chooses a healthy option – entered into a drawing for a gift card

**Action 3**
Educate on how to eat healthy on a budget. Show cost of sugary drinks compared to water.

**Resources/Collaborators Needed**
Food pantries and banks, 31 back packs, RD’s, community service organizations (LBFE – Little Brothers)
Significant Health Need 4 - Access to care

**Goal 1 - Educate public on what primary care and dental services are available and how much they will cost**

**Action 1**
Educate why and how they need a primary care provider and a dentist using traditional and digital media

**Action 2**
Utilize third party education remove branding (Hospitals) and show available services and how to get them

**Action 3**
Educate people on insurance including Medicaid and the exchange plans and what preventive care is included in their insurance

**Goal 2 - Recruit physicians (specific specialties)**

**Action 1**
Offer incentives to come and stay in the U.P. e.g. loan forgiveness, spouse placement program

**Action 2**
Create a marketing campaign on pros of living and staying in the U.P. to practice

**Goal 3 - Create low-income programs and make them easily accessible**

**Action 1**
Offer free consultations to get them to come – explain costs/educate them where they are, e.g. food pantries, give resources/discounts, make screenings available in “pop-up shops”.

**Action 2**
Address using healthcare while they're young – after school program for everyone, screenings available – non-branded

**Action 3**
Advertise the sliding fee program through the Federally Qualified Health Center (FQHC)

**Resources/Collaborators Needed**
Nursing schools, financing, hospitals, non-profits, health department

Significant Health Need 5 - Socioeconomics

**Goal 1 - Increase awareness of high school/college students of current economic opportunities locally, i.e. health care or education careers**

**Action 1**
Career fairs directed at high school students

**Action 2**
Focus on local products sold in local stores, community working together to provide local jobs
Goal 2 - Encourage new growth economic opportunities in diverse fields (tourism, local universities, education, manufacturers, technology, engineering)

Action 1
Partner with economic organization and organizations like smartzone, chamber, etc.

Action 2
Target folks who live here and work remotely

Action 3
Explore remote working opportunities to live in the U.P.

Resources/Collaborators Needed
Economic development, Chamber, high schools, employers
Impact of 2016 CHNA and Implementation Plan
In 2016, the Houghton County, Michigan communities prioritized the following health needs:

1. Mental and Behavioral Health
2. Obesity – healthy eating, active living
3. Substance Abuse
4. Access
5. Aging/Chronic Diseases
6. Socioeconomics/Violence

UPHS – Portage selected aging/chronic disease management, mental and behavioral health, and access to care for their implementation plan.

**Aging and Chronic Disease Management**  
(also supports healthy eating, active living)

- Since 2016, UPHS-Portage offered the following screening and education programs through Community Health that help people deal with chronic conditions:
  - Day for Women – 5/14/16 and 5/22/19 – Evenings devoted to health topics just for women including education, free health screenings and socializing
  - Health and Safety Fair – 6/4/16, 6/3/17 and 6/1/19 – Annual event highlighting services and programs offered within the community. Event includes free screenings, healthy food, hands-on demonstrations.
  - Men's Health Tune-up – 10/15/16 and 1/12/18 – Evenings devoted to health topics just for men including education, free health screenings and socializing.
  - Heart Health by the Numbers – 2/28/18 and 2/27/19 – Heart health screenings offered free and reviewed by Dr. Khouri, Cardiologist and education to improve health.
  - A Healthier You – 1/12/19 – event focused on small ways to improve health in big ways. Opportunities to meet with dieticians, exercise and rehab specialists and try out exercise equipment.
  - Dementia Education Series offered 3 times during the year for caregivers, families, and healthcare staff
  - Stroke Support Group offered once a month for families and survivors of stroke

Since 2016, UPHS-Portage developed a clinically integrated network to drive clinical improvements to improve health status as well as reduce the overall cost of care.
Mental & Behavioral Health
Since 2016, UPHS—Portage assisted Upper Great Lakes Behavioral Health in recruitment of behavioral health providers.

Behavioral Health Improvement Task Force Activities
Involved with Portage Health Foundation who works behavioral health improvement issues.

Access to Care
Availability of needed physician specialties – Consistently making efforts to recruit the 5 specialties listed. Did recruit a dermatologist. Lost an ENT, but actively recruiting another. Other specialties have proven to be much more difficult.

Accessibility of Means-Based Services
New service lines in Calumet at Upper Great Lakes Family Health Center and Calumet Express Care. UGLFHC Calumet offers dental services, behavioral services, and family practice. Calumet Express Care offers physical and occupational therapy as well as being a walk-in clinic.

Healthcare Navigator Program
Financial counselors that help with payment plans, gaining access to Medicaid. If patients don’t have insurance, counselors work on getting them Medicaid applications and assisting with charity programs.
Community
Assets and Inventory
Houghton County, MI

Geography

Cities
- Hancock
- Houghton (county seat)

Villages
- Calumet
- Copper City
- Lake Linden
- Laurium
- South Range

Charter townships
- Calumet Charter Township
- Portage Charter Township

Civil townships
- Adams Township
- Chassell Township
- Duncan Township
- Elm River Township
- Franklin Township
- Hancock Township
- Laird Township
- Osceola Township
- Quincy Township
- Schoolcraft Township
- Stanton Township
- Torch Lake Township

Census-designated places
- Dollar Bay
- Hubbell

Other unincorporated communities
- Atlantic Mine
- Blue Jacket

- Centennial
- Chassell
- Dakota Heights
- Dodgeville
- Donken
- Dreamland
- Franklin Mine
- Freda
- Hurontown
- Jacobsville
- Kearsarge
- Mason
- Painesdale
- Redridge
- Ripley
- Senter
- Tamarack City
- Toivola
- Trimountain
- Twin Lakes
- White City
- Yellow Jacket

Main Highways
- US 41
- M-26
- M-28
- M-38
- M-203

Media

Radio
- C58T  580 AM Thunder Bay, ON
- CKPR  580 AM Thunder Bay, ON
- WMPL  920 AM Hancock, MI
- WCCY  1400 AM Houghton, MI
- WGGL  91.1 FM Houghton, MI
- WMTU  91.9 FM Houghton, MI
- WKMJ  93.5 FM Hancock, MI
- WOLV  97.7 FM Houghton, MI
- WGLI  98.7 FM Hancock, MI
- W257CZ 99.3 FM Houghton, MI
- W260AC 99.9 FM Houghton, MI
- WUPY  101.1 FM Ontonagon, MI
- WHKB  102.3 FM Houghton, MI
- WVCN  104.3 FM Baraga, MI
- WCUP  105.7 FM

Transportation

Airport
Houghton County Memorial Airport
23810 Airpark Blvd Ste 113
Calumet, MI 49913

Marine
Deep-water port

Bus lines
Indian Trails
L’anse, MI
• W297CD 107.3 FM
Hancock, MI

Government

County Department Phone Numbers

12th Circuit Court
(906) 482-5420

12th Circuit Court Parole & Probation
(906) 482-6615

District Court Clerk
(906) 482-4980

Friend of The Court
(906) 482-2102

Houghton County
Building Department
(906) 482-2260

Houghton County
Clerk
(906) 482-1150

Houghton County
Controller
(906) 482-8307

Houghton County
Drain Commissioner
(906) 482-4491

Houghton County
Emergency Measures
(906) 482-6400

Houghton County
Equalization Department
(906) 482-0250

Houghton County
Register of Deeds
(906) 482-1311

Houghton County
Road Commission
(906) 482-3600

Houghton County
Sheriff’s Office

Houghton County Solid Waste Transfer Station
(906) 482-0055

Houghton County Treasurer’s Office
(906) 482-0560

Houghton-Keweenaw County Department of Veterans Affairs
(906) 482-0102

Houghton-Keweenaw County MSU Extension
(906) 482-5830

Probate & Family Court
(906) 482-3120

Prosecuting Attorney
(906) 482-3214

County Board of Commissioners

District 1
Tom Tikkanen
Vice Chairman

District 2
Al Koskela
Chairman

District 3
Glenn Anderson

District 4
Gretchen Janssen

District 5
Roy Britz

Elected County Officials

12th Circuit Court
Honorable Charles R. Goodman - Circuit Court Judge

Pamela Beggs - Circuit Court Reporter

Diana Ginter - Circuit Court Administrator

12th Circuit Court Parole & Probation
Russell Ryynanen - Parole/Probation Agent
Tanya Etelamaki - Parole/Probation Agent

Friend of The Court
Brenda Cadwell,
Friend Of The Court
Dan Giachino,
Enforcement Office
Philip Foltz, Mediator
Manda Sheridan,
Senior Accounts Processor
Toni Cleary,
Senior Accounts Processor
Heather Cote,
Senior Accounts Processor

Houghton County Building Department

Todd LaRoux,
Houghton County Clerk
Jennifer Kelly, County Clerk
Susan Lewis,
Deputy County Clerk
Beverly Smith,
Senior Accounts Processor
Renee Cunningham,
Senior Account Processor

Houghton County Controller

Eric Forsberg - Administrator
Elizabeth Bjorn - Accountant

Houghton County Drain Commissioner

John Pekkala

Houghton County
Emergency Measures
Christopher Van Arsdale - Director
Houghton County Equalization Department
Cheryl M. Patrick - Director
Jaikob Djerf - Deputy Director
LuAnn Hayrynen - Property Appraiser
Sara Huuki - Senior Accounts Processor

Houghton County
Register of Deeds
Jennifer Kelly - Register of Deeds
Mary Ann Krug - Deputy Register
Linda Fredrickson - Senior Accounts Processor
Jenny Deycaza - Senior Accounts Processor

Houghton County
Sheriff’s Office
Brian J. McLean - Sheriff
Kevin L. Coppo - Undersheriff/911 Coordinator

Houghton County
Treasurer’s Office
Lisa Mattila - County Treasurer
Karen Semmens - Deputy County Treasurer
Carol Little - Senior Accounts Processor
Jason Coffey - Senior Accounts Processor

Houghton-Keweenaw
County Department of Veterans Affairs
Joe Battisfore

Houghton-Keweenaw
County MSU Extension
Deborah Hilscher, Office Manager
Anne Kretschmann, 4-H Program Coordinator
Kathy Bauer, Snap Ed PI

Probate & Family Court
Honorable Fraser T. Strome - Judge
Barbara A. Battersby - Juvenile Officer
Susan L. O’Connell - Probation Officer, Adoption Specialist

Prosecuting Attorney
Brittany Bulleit - Prosecuting Attorney
Jesse Belanger - Assistant Prosecuting Attorney

Major Employers
Michigan Technological University
UP Health System Portage
Aspirus Keweenaw
Wal-Mart Corporation
BHK Child Development Board
Copper Country Mental Health
CLK Schools
Calumet Electronics Corporation
Portage Township Schools
Midwest Loan Service
Copper County ISD
Horner Flooring
Koppers
GS Engineering
ThermoAnalytics
Anderson Welding

Public Safety

Police
Houghton County Sheriff’s Office
403 E Houghton Ave
Houghton, MI 49931
(906) 482-0055
Houghton Police Department
616 Shelden Ave Suite 101
Houghton, MI 49931
(906) 482-2121
Laurium Village Police Station
310 Hecla St
Laurium, MI 49913
(906) 337-4000
Michigan State Police
Calumet Post
55195 US Highway 41 S
Calumet, MI 49913
(906) 337-5145

Fire
Toivola Volunteer Fire Department
41095 Church Rd
Toivola, MI 49965
(906) 288-3393
Bootjack Fire Hall
49676 Bootjack Rd
Lake Linden, MI 49945
(906) 296-0900
Stanton Township Volunteer Fire Department Precinct 1, Inc
16841 Fire Hall Rd
Houghton, MI 49931
(906) 482-2026
Laird Township Volunteer Fire Department
Healthcare

Hospitals
UP Health System—Portage
500 Campus Dr
Hancock, MI 49930
(906) 483-1000

Aspirus Keweenaw Hospital
205 Osceola Street
Laurium, MI 49913
(906) 337-6500

Health Department
Western Upper Peninsula
Health Department
540 Depot St
Hancock, MI 49930

Dentists
Ronald J Fisher DDS
1550 W Quincy St
Hancock, MI 49930
(906) 482-3621

R L Kavorik DDS
725 Cedar Bluff Dr
Houghton, MI 49931
(906) 482-2020

Gary A Moberg DDS
502 Shelden Ave Suite 1
Houghton, MI 49931
(906) 482-0808

Beesley, Leonard W DDS
1111 Hecla St
Hancock, MI 49930
(906) 482-8602

Orr, Sally D DDS
77 3rd St
Laurium, MI 49913
(906) 337-0444

David Anderson
402 E Sharon Ave
Houghton, MI 49931
(906) 482-6497

John M Lawton DDS
1550 W Quincy St
Hancock, MI 49930
(906) 482-1098

Stacknik, Susan DDS
611 W Houghton Ave
Houghton, MI 49931
(906) 482-0015

Richards, Robert D DDS
896 Campus Dr
Hancock, MI 49930
(906) 482-8527

James W Sarazin DDS Pc
528 Quincy St Suite 4
Hancock, MI 49930
(906) 482-8601

Lilliana Kostinski DDS
21921 Peepsock Rd
Houghton, MI 49931
(906) 482-8331

J C Archibald DDS
1220 Military Rd
Houghton, MI 49931
(906) 482-4262

Rebecca B Johnson DDS
903 Razorback Dr Ste 10
Houghton, MI 49931
(906) 483-0200

Clinics
UP Health System—Portage - University Center
600 Macinnes Dr
Houghton, MI 49931
(906) 483-1860

Express Care- Calumet
56720 Calumet Ave,
Calumet, MI 49913
(906) 481-8952

Express Care - Houghton
921 W Sharon Avenue
Houghton, MI 49931
(906) 483-1777

Hancock VA Clinic
787 Market St #9
Hancock, MI 49930
(906) 482-7762

BlueSky Health
903 Razorback Dr #1
Houghton, MI 49931
(517) 545-2400

Aspirus Houghton Clinic
1000 Cedar St
Houghton, MI 49931
(906) 487-1710

Upper Great Lakes Houghton Family Health Center
600 Macinnes Dr
Houghton, MI 49931
(906) 483-1860

Aspirus Lake Linden Clinic
110 Calumet St
Lake Linden, MI 49945
(906) 296-5040

Long-term Care and Assisted Living
Gardenview
26096 E, Elm St
Calumet Twp, MI 49913
(906) 934-6111

Our Lady-Mercy Health & Rehab
52225 B Ave
Hubbell, MI 49934
(906) 296-3301

Portage House
1400 Ravine Side Dr
Houghton, MI 49931
(906) 487-1746

Bluffs
1000 Bluff View Dr
Houghton, MI 49931
(906) 483-4400

The Lighthouse at Hancock Health and Rehabilitation
1400 Poplar St
Hancock, MI 49930
(906) 482-6644

Home Health and Hospice
UPHC—Portage Home Care & Hospice
821 Water St
Hancock, MI 49930
(906) 483-1160

Portage Health Home Services, Inc.
200 Michigan St Suite #328
Hancock, MI 49930
(906) 483-1170

UPCAP Services
787 Market St #7
Hancock, MI 49930
(906) 482-0982

Aspirus At Home
1101 N Elevation St
Hancock, MI 49930
(800) 594-7053

My Nurse
50670 Miller Rd
Atlantic Mine, MI 49905
(906) 482-4035

Omega House
2211 Maureen Ln
Houghton, MI 49931
(906) 482-4438

Behavioral and Addiction Services
Great Lakes Recovery Centers - Hancock Outpatient Services
920 W Water St Ste 6
Hancock, MI 49930
(906) 482-7710

Copper Country Mental Health, Rice Memorial Center
901 W Memorial Dr
Houghton, MI 49931
(906) 482-9400

The Institute
900 West Sharon Ave
Houghton, MI 49931
(906) 482-4880

Copper Country Mental Health, Rice Memorial Center – CLK Branch
56938 Calumet Ave
Calumet, MI 49913
(906) 337-5810

Phoenix House
Blue Jacket Location
Waterworks St
Calumet Twp, MI 49913
(906) 337-0763

Western UP Substance Abuse
902 W Sharon Ave
Houghton, MI 49931
(906) 482-7710

North Coast Counseling Services, LLC
300 Dunstan St
Hancock, MI 49930
(906) 523-5580

Portage Psychological Services
540 Depot St
Hancock, MI 49930
(906) 281-3459

Copper Island Behavioral Health
810 Quincy St
Hancock, MI 49930
(906) 482-9440

Psychology Associates
56730 Calumet Ave F
Calumet, MI 49913
(906) 337-6839

Durable Medical Equipment
Apothecary HME - Home Medical Equipment Store
894 Campus Dr
Hancock, MI 49930
(906) 483-1290

Beltone Skoric Hearing Aid Center LLC - Google Maps
540 Depot St #203
Hancock, MI 49930
(906) 523-1107
Other
Portage Health Dialysis Center
500 Campus Dr
Hancock, MI 49930

Aspirus Eye Clinic
1000 Cedar St
Houghton, MI 49931

Aspirus Outpatient Therapies and Fitness Center – Calumet
25680 Copper King Way
Laurium, MI 49913
(906) 337-7000

Aspirus Outpatient Therapies – Houghton
1000 Cedar St
Houghton, MI 49931
(906) 487-1710

Portage Health Rehab – Calumet
4 6th St
Osceola, MI 49913
(906) 337-4029

Northern Footcare Clinic
801 Memorial Rd
Houghton, MI 49931
(906) 482-9950

Hotlines
Michigan Coalition Against Sexual & Domestic Violence
(800) 996-6228

Michigan Victim Services
(517) 373-3740

Michigan Victims Alliance
(517) 487-8278

National Hotlines
Emergency
911

National Suicide Prevention Lifeline
800-273-TALK
or 800-237-8255

National Runaway Safeline
1-800-RUNAWAY

National Centers for Disease Control
1-800-232-4636

Gay, Lesbian, Bisexual and Transgender National Hotline
1-888-843-4564

HIPS Hotline
1-800-676-HIPS

National Sexually Transmitted Disease Hotline
1-800-227-8922

Women Alive
1-800-554-4876

AIDS Info
1-800-HIV-0440

Project Inform
1-800-822-7422

DMRS Investigations
1-888-633-1313

Mobile Crisis
1-800-681-7444

Domestic Violence
1-800-356-6767

Spanish Domestic Violence Hotline Number
1-800-942-6908

Poison Control Center
1-800-222-1222

Veterans Crisis Line
800-273-8255 Press 1

National Youth Crisis Hotline
800-442-HOPE (4673)

National Missing Children Hotline
1-800-235-3535

National Sexual Assault Hotline
1-800-656-6473

Alcohol Hotline
1-800-331-2900

Alcohol Treatment Referral Hotline
1-800-252-6465

National Drug Abuse Hotline
1-800-662-4357

Poison Control
1-800-942-5969

National Homeless Hotline
1-800-231-6946

National Elder Abuse Hotline
1-800-252-8966

Community, Civic, Non-Profit Organizations
Basic Needs Assistance
31 Backpacks Inc
1100 Century Way Ste C
Houghton, MI 49931

DDIY
924 Prospect St
Hancock, MI 49930

Let’s Eat Community Meals Inc
40178 Lower Worham Rd
Chassell, MI 49916

Western Upper Peninsula Food Bank Inc
926 Dodge St
Houghton, MI 49931

Housing
Hope House Homeless Shelter
606 Quincy St
Hancock, MI 49930

Habitat For Humanity International Inc
1400 Townsend Dr Mem Un Bldg Rm 106
Women’s Services

WIC
540 Depot St
Hancock, MI 49930

American Association of University Women
229 Pewabic St
Calumet, MI 49913

League of Women Voters of Michigan Copper Country
PO Box 815
Houghton, MI 49931

Children and Youth Organizations

Keweenaw Children’s Museum Inc
700 Park Ave
Houghton, MI 49931

Student Development Complex
101 Macinnes Dr
Houghton, MI 49931

Good Will Farm Association
PO Box 428
Houghton, MI 49931

Simple Kindness For Youth Inc
809 Hecla St
Hancock, MI 49930

Superior Child Abuse Prevention Council
PO Box 832
Houghton, MI 49931

Portage Lake Youth Association
504 Calverley Ave
Houghton, MI 49931

Soccer Assoc For Youth
PO Box 756
Houghton, MI 49931

U.P. Kids

57 Huron St
Houghton, MI 49931

Summer Youth Programs
Administration Building, 1400 Townsend Dr,
Houghton, MI 49931

Community Service Organizations

Arnold Air Society-Silver Wings
1400 Townsend Dr ROTC
Bldg Rm 104
Houghton, MI 49931

Calumet Hockey Association Inc
PO Box 385
Calumet, MI 49913

Cancer Fund Board of Overseers Michigan Federation of B & PW
45320 Us Highway 41
Chassell, MI 49916

Copper Country Associated Artists
PO Box 24
Calumet, MI 49913

Disabled American Veterans
PO Box 145
Calumet, MI 49913

Disabled American Veterans Auxiliary Inc
42878 Lakeshore Dr
Chassell, MI 49916

Dollar Bay Volunteer Fire Department Inc
PO Box 112
Dollar Bay, MI 49922

International Association of Lions Club
PO Box 122
Painesdale, MI 49955

International Association of Lions Clubs
50617 Bootjack Rd
Lake Linden, MI 49945

International Association of Lions Clubs
PO Box 1
Calumet, MI 49913

International Association of Lions Clubs
PO Box 218
South Range, MI 49963

International Association of Lions Clubs
PO Box 22
Chassell, MI 49916

International Association of Lions Clubs
PO Box 667
Dollar Bay, MI 49922

Kiwanis International
1033 Summit St
Hancock, MI 49930

Kiwanis International Inc
PO Box 43
Houghton, MI 49931

Lake Linden Hubbell Sportmens Association Inc
PO Box 35
Lake Linden, MI 49945

Lake Superior Region of the Sports Car Club of America Inc
55275 Cemetery Rd
Calumet, MI 49913

Marine Corps League
51760 Seebug Dr
Calumet, MI 49913

Michigan Association of Retired School Personnel
38588 Singing Sands Road  
Chassell, MI 49916

National Organization for Women Inc Copper Country  
22 Woodland Rd  
Houghton, MI 49931

Rotary International  
21710 Peepsock Rd  
Houghton, MI 49931

Rotary International  
399 Quincy St  
Hancock, MI 49930

Sons of Union Veterans of the Civil War  
1617 Anthony St  
Hancock, MI 49930

Cultural, Ethnic Awareness  
Finnfest USA 2013 Committee Inc  
PO Box 479  
Hancock, MI 49930

Economic Development Organizations  
Keweenaw Industrial Council  
600 E Lakeshore Drive  
Houghton, MI 49931

Main Street Calumet Inc  
PO Box 188  
Calumet, MI 49913

Foundations

Adams Township School District Foundation Inc  
PO Box 37  
Painesdale, MI 49955

Bootjack Fire & Rescue Foundation Inc  
47715 Bootjack Rd

Lake Linden, MI 49945

Brody Strong Foundation  
21953 Creamery Rd  
Chassell, MI 49916

Chassell Township Public School Foundation  
PO Box 140  
Chassell, MI 49916

Hancock Housing Foundation  
1401 Quincy Street  
Hancock, MI 49930

Hancock Public Schools Foundation Inc  
501 Campus Dr  
Hancock, MI 49930

Herman Gundlach Foundation  
PO Box 86  
Toivola, MI 49965

Hollys Starlight Foundation  
PO Box 143  
Calumet, MI 49913

Houghton-Portage Township Schools Foundation Inc  
1603 Gundlach Rd  
Houghton, MI 49931

Jeff Moyle Memorial Foundation  
PO Box 414  
Houghton, MI 49931

John Wesley-James Jones Memorial Foundation  
201 Isle Royale St  
Houghton, MI 49931

Keweenaw Community Foundation  
236 Quincy St  
Hancock, MI 49930

Keweenaw Health Foundation  
205 Osceola St  
Calumet, MI 49913

Lake Linden - Hubbell Public Schools Foundation Inc  
601 Calumet St  
Lake Linden, MI 49945

Michigan Parkinson Foundation  
311 6th St  
Calumet, MI 49913

National Parks of Lake Superior Foundation  
PO Box 31  
Houghton, MI 49931

Portage Health Foundation  
PO Box 299  
Hancock, MI 49930

Portage Lake Enrichment Foundation  
PO Box 336  
Houghton, MI 49931

Public Schools of Calumet Laurium & Keweenaw Foundation Inc  
57070 Mine St  
Calumet, MI 49913

Rabbit Island Foundation Inc  
209 5th St  
Calumet, MI 49913

Rice Memorial Clinic Foundation  
235 Quincy St  
Hancock, MI 49930

Seatec Foundation  
Mitch Technological Univ Eerc 516  
Houghton, MI 49931

St Aton Foundation Inc  
PO Box 547  
Houghton, MI 49931

Life Skills/Job Training Michigan Works!  
400 Quincy St, 3rd Floor
Hancock, MI 49930  
(906) 482-6916

Non- Emergency Transport Services  
UPHP Transportation Department  
1-800-835-2556

Outreach Ministries  
Life Outreach Center  
PO Box 563  
Hancock, MI 49930

Dawn of A New Day  
Addiction Ministry  
PO Box 484  
South Range, MI 49963

Saint Albert the Great Catholic Church  
411 Macinnes Dr  
Houghton, MI 49931

Zion Lutheran Church  
400 Ingot St  
Hancock, MI 49930

Parks and Outdoor Activities  
Isle Royale & Kewenew Parks Association  
800 E Lakeshore Dr  
Houghton, MI 49931

Michigan Parkinson Foundation  
311 6th St  
Calumet, MI 49913

National Parks of Lake Superior Foundation  
PO Box 31  
Houghton, MI 49931

Nara Nature Park / MTU Trails Waterfront Trail  
Waterfront Recreation  
Pewabic Street Community Garden  
F.J. McLain State Park

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**Senior Services**

- Calumet and Laurium Holistic Senior Center Inc  
  307B 6th St  
  Calumet, MI 49913

- Copper Country Senior Meals Inc  
  821 W Water St  
  Hancock, MI 49930

- Apostolic Lutheran Home for the Aged  
  58590 Railroad St  
  Calumet, MI 49913

- Houghton Housing Company Inc  
  401 E Montezuma Ave  
  Houghton, MI 49931

- Laurium Elders Inc Still Waters Community Elders Home  
  PO Box 645  
  Calumet, MI 49913

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**Education Resources**

**Libraries**

- Michigan Technological University  
  103 Jr Van Pelt Library  
  Houghton, MI 49931  
  (906) 487-2737

- J R Van Pelt Library  
  1400 Townsend Dr  
  Houghton, MI 49931  
  (906) 487-2500

- Jr Van Pelt Library  
  1400 Townsend Dr  
  Houghton, MI 49931  
  (906) 487-2508

- Lake Portage District Library  
  58 Huron St  
  Houghton, MI 49931  
  (906) 482-2129

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**Attractions, Festivals, and Events**

**Attractions**

- Quincy Mine  
- Keweenaw Waterway  
- Portage Canal Lift Bridge  
- Houghton County Historical Society  
- A.E Seaman Mineralogical Chassell Heritage Center

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**Public Schools**

- Copper Country Intermediate School  
  911 Razorback Dr

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**Festivals, and Events:**

- Pine Mountain Music Festival Inc
- Parade of Nations
- U.P. North Music Festival
- Parade of Nations & Multicultural Festival
- 41 North Film Festival
- Bridgefest Celebration
Houghton MI, 49931  
(906) 482-4250

Hancock Central High School  
501 Campus Dr  
Hancock MI, 49930  
(906) 483-2540

Hancock Middle School  
501 Campus Dr  
Hancock MI, 49930  
(906) 487-5923

Houghton Elementary School  
203 W Jacker Ave  
Houghton MI, 49931  
(906) 482-0456

Houghton High School  
1603 Gundlach Rd  
Houghton MI, 49931  
(906) 482-0451

Bridge High School  
809 Hecla St  
Hancock MI, 49930  
(906) 482-0828

South Range Elementary School  
2 Whealkate Dr  
South Range MI, 49963  
(906) 482-4430

Copper Country Learning Center  
809 Hecla St  
Hancock MI, 49930  
(906) 482-7260

Barkell Elementary School  
1201 N Elevation St  
Hancock MI, 49930  
(906) 487-9030

Osceola Elementary School  
48475 Maple Dr  
Dollar Bay MI, 49922  
(906) 482-5800

Lake Linden Hubbell High School  
601 Calumer St  
Lake Linden MI, 49945  
(906) 296-6221

Lake Linden Hubbell Elementary School  
601 Calumer St  
Lake Linden MI, 49945  
(906) 296-6221

Chassell Township School  
41585 US Highway 41  
Chassell MI, 49916  
(906) 523-4691

Private Schools

Copper Country Christian School  
20980 Broemer Rd  
Calumer MI, 49913  
(906) 487-1718

Child Care Centers

KBIC Pre Primary Edu Program  
112 College Rd  
Baraga, MI 49908  
(906) 353-5437

BHK Child Development  
700 Park Avenue  
Houghton, MI 49931  
(906) 482-3663

Tiny Treasures Daycare  
25886 Elm St  
Calumer, MI 49913  
(906) 337-3510

Post-Secondary Education

Michigan Technological University  
1400 Townsend Dr  
Houghton, MI 49931  
(906) 487-1885

Finlandia University  
601 Quincy St  
Hancock, MI 49930  
(906) 487-2720

Museums

Coppertown USA Mining Museum  
The Houghton County Historical Museum  
Carnegie Museum  
A.E. Seaman Mineral Museum of Michigan Tech  
Copper Range Historical
### Churches

- Apostolic Lutheran Church
- Bethany Baptist Church
- Chassell Apostolic Lutheran Church
- Christian Science Church
- Church of Jesus Christ of Latter Day Saints
- Evangel Baptist Church
- First Lutheran Church
- Good Shepherd Lutheran Church
- Grace United Methodist Church
- Holy Trinity Lutheran Church
- Hope Fellowship Church
- Houghton Baptist Church
- Maranatha Free Lutheran Church
- Peace Evangelical Lutheran Church
- Pelkie Laestadian Church
- Peninsula Christian Church
- Portage Lake United Church
- Saint Albert the Great Catholic Church
- Saint Anne's Catholic Church
- Saint Ignatius Loyola Church
- Seventh Day Adventist Church
- Trinity Episcopal Church
- Unitarian Universalist Church
- Finnish Church
- Graveraet River Chapel of Saint Matthew
- Grace Christian Fellowship
- Lake Linden Avenue Gospel Hall
- Lake Linden United Methodist Church
- Laurium United Methodist Church
- Sacred Heart Church
- Saint Cecilia's Catholic Church
- Saint John's Lutheran Church
- Saint Joseph Church
- Saint Paul Lutheran Church
- Saint Paul the Apostle Church
- Saint Henry's Church
- Zion Lutheran Church

### Locations

- Chassell
- Hancock
- Laurium
- Nisula
- Tapiola
Otter Lake
Alston Apostolic Lutheran Church
Pelkie
Elo Church
Pine Lake
Sidnaw United Methodist Church
Sidnaw
Apostolic Lutheran Church
South Range
Calvary Baptist Church
South Range
Grace Lutheran Church
South Range
Holy Family Church
South Range
Painesdale Apostolic Lutheran Church
South Range
Saints Sergius and Herman of Valaam Orthodox Church
South Range

Sources
https://www.google.com/map
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Government
http://www.houghtoncounty.net/

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Geography

Major Employers
https://kedabiz.com/about/

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Community, Civic, Non-Profit Organizations
https://www.taxexemptworld.com/organizations/houghton-county-mi-michigan.asp
http://www.keweenaw.org/list/category/non-profit-20

Attractions, Festivals, Events

Churches
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