

RESPONDING TO PUBLIC HEALTH CHALLENGES

Building Trust

through dedication, commitment, and communication

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LETTER FROM THE HEALTH OFFICER & MEDICAL DIRECTOR

Each year we look forward to sharing our triumphs and trials in our annual report. This report is an opportunity for us to connect with our community members and partners. It is a chance for us to strengthen your understanding of public health and its role in throughout our jurisdiction.

Public health as a whole strives to protect and improve the health of families and communities by promoting and supporting healthy lifestyles, conducting research, and detecting and controlling infectious diseases (CDC Foundation). As your local health department, District Health Department #10 (DHD#10) is dedicated to supporting communities through population-based efforts to achieve better health outcomes and well-being for all.

The theme of this annual report is **"Responding to Public Health Challenges."** As you review the information presented here, you'll see highlights of various challenges we took on, initiatives we kicked off, and projects we carried out. Much of our success is due to our partners and extensive collaborative efforts with numerous coalitions and alliances. Over the past fiscal year, DHD#10 continuously explored innovative ways to improve local public health. With the compilation of our Community Health Needs Assessment and Community Health Improvement Plan, we have timely data to advise us on how we're doing and where we can improve.

Lessons learned from the past year prepare us for what's to come in 2018. From environmental issues to communicable diseases to state and federal regulations to budget strains, there will always be challenges. As stewards of public health, we are prepared to take them on.

The leadership and staff of DHD#10 remain steadfast in our commitment to our mission of "Healthy People, Healthy Communities."



Kevin Hughes, M.A. Health Officer



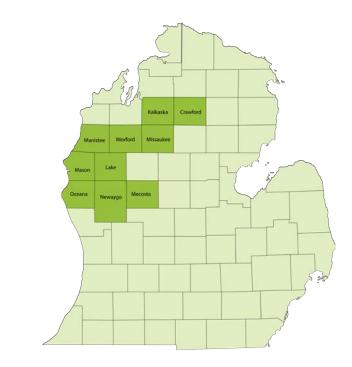


ABOUT US WHO WE ARE



District Health Department #10 was formed October 1, 1997, through the consolidation of four health departments into one organization. DHD#10 is the largest geographical health department in Michigan and is the tenth largest based upon population.

We serve 10 counties in northern and west Michigan, including: Crawford, Kalkaska, Lake, Manistee, Mason, Mecosta, Missaukee, Oceana, Newaygo, and Wexford.



OUR MISSION

To promote and enhance the health of our communities and environment through protection, prevention, and intervention.

OUR VISION

OUR VALUES

Healthy People, Healthy Communities

Integrity Responsibility Accountability

Customer Service Positive Attitude Communication

COLDITED HEALTH DEATA

10 ESSENTIAL PUBLIC HEALTH SERVICES

- 1. Monitor health status to identify community health problems.
- 2. Diagnose and investigate health problems and health hazards in the community.
- 3. Inform, educate, and empower people about health issues.
- 4. Mobilize community partnerships to identify and solve health problems.
- 5. Develop policies and plans that support individual and community health efforts.
- 6. Enforce laws and regulations that protect health and ensure safety.
- 7. Link people to needed personal health services and assure the provision of health care when otherwise unavailable.
- 8. Assure a competent public health and personal health care workforce.
- 9. Evaluate effectiveness, accessibility, and quality of personal and population-based health services.
- 10. Research for new insights and innovative solutions to health problems.





WHAT WE **STAND FOR**

WHAT WE'RE **MADE OF**

District Health Department #10 maintains a workforce development plan to identify training needs and development opportunities among staff and leadership. We continue to build our staff and leadership by investing in their core competencies, knowledge, and skill sets.

176 **TOTAL EMPLOYEES** IN 2016-2017

NEW EMPLOYEES HIRED IN 2016-2017

> **OUR 2017** BOARD OF HEALTH

CRAWFORD

Shelley Pinkelman Phil Lewis **KALKASKA** Patty Cox

James Sweet LAKE

Betty Dermyer Jean Runnels MANISTEE

Pauline Jaquish **Richard Schmidt** MASON

Charles Lange Wally Taranko

MECOSTA Ray Steinke

Tom O'Neil MISSAUKEE Hubert Zuiderveen

Star Hughston **NEWAYGO** Bryan Kolk

Chris Ortwein OCEANA

Martha Meyette Denny Powers

WEXFORD Judy Nichols Gary Taylor

OUR WORKFORCE 176 145

30 FULL PART TEMP TOTAL TIME TIME



TOTAL POPULATION

STRATEGIC PLAN BENCHMARKS 2016-2017

The strategic plan is a like a road map that provides direction and focus for DHD#10. It represents dynamic and ongoing work toward achieving our vision and carrying out our mission.

GOAL #1: MAINTAIN EXCELLENCE AS A PUBLIC HEALTH AGENCY

Implemented a geographic information system (or GIS) within the Environmental Health Division. Additional uses will be explored moving forward.

Administered an agency wide employee survey to identify areas for improvement. Work groups have formed around 3 areas: Employee Recognition, Communications, Mission/Workload.

Assessed incident command structure; extended structure and implemented training.

Expanded cultural competence of agency through recruitment of bilingual staff in scheduling, clinical services community health workers.

GOAL #2: IMPROVE THE HEALTH STATUS OF RESIDENTS

Launched Community Connections HUB as part of the Northern Michigan Community Health Innovation Region (NMCHIR) in Kalkaska, Manistee, Missaukee and Wexford Counties; provide Community Health Workers to help address the social determinants of health/basic health needs that are barriers to achieving overall health.

Secured funding for FY18 to expand the Community Connections HUB into all remaining six counties of DHD#10 iurisdiction.

> Implemented a regional water lab to analyze bacterial and nitrate levels in drinking water locally.

GOAL #3: ENGAGE COMMUNITIES TO IDENTIFY AND SOLVE HEALTH PROBLEMS

Finalized the Community Health Needs Assessment and developed the Community Health Improvement Plan in partnership with local health coalitions and human service collaborative bodies.

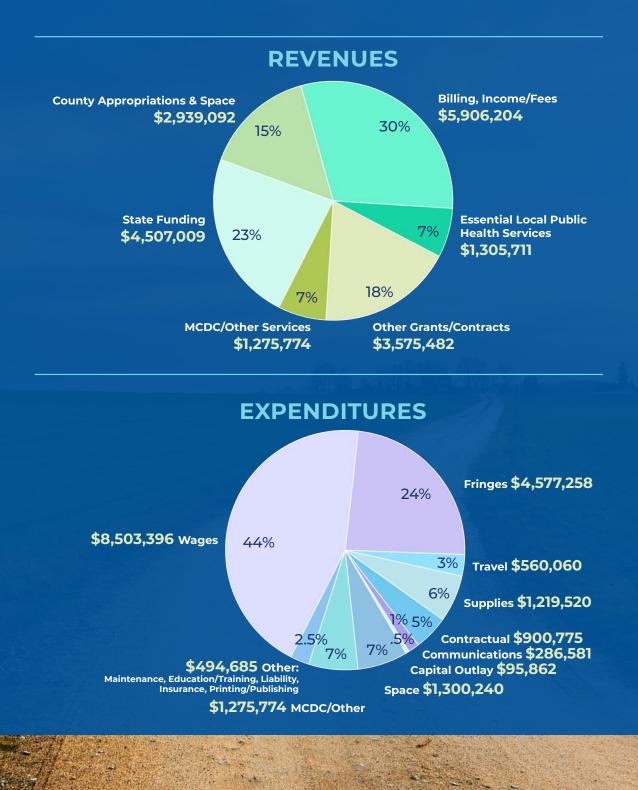
Worked as a NMCHIR partner to establish innovative strategies across Prosperity Region 2 to: Improve Patient Experience, Improve Population Health Outcomes and Reduce Health Care Costs.

Expanded work around substance abuse prevention at the community level into Wexford/Missaukee Counties.

Participated in county and regional health coalitions and engagement of partners in grant writing opportunities is on-going.

ADMINISTRATIVE SERVICES

Responsible fiscal management and transparent fiscal reporting allows DHD#10 to continue to deliver essential public health services while maintaining the public's trust. DHD#10 secures funding from a variety of sources, as evidenced in the revenues chart. Our agency partners are a vital part of keeping DHD#10 functioning at full capacity.





ENVIRONMENTAL HEALTH

Environmental health staff at DHD#10 work hard every day to investigate potential environmental exposures they may be linked to diseases. From the air we breathe, to the water we drink, to the food we eat, DHD#10 sanitarians are there to ensure our environments are safe and support healthy habits.

VAPOR INTRUSION

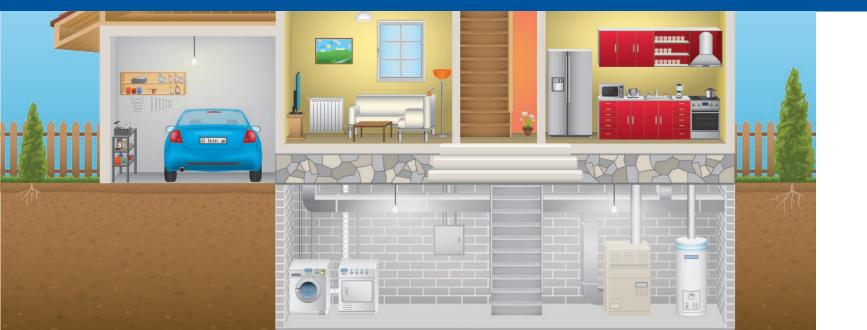
Michigan has over 4,000 sites of groundwater contamination. The wells in these areas are continually monitored and sampled at least annually. Nevertheless, it seems that groundwater isn't the only concern. In addition to chemicals contaminating groundwater, they may also be producing vapors. These vapors can rise through the soil and enter homes via their basements and produce very high levels of chemicals in the air, otherwise known as vapor intrusion. In 2017, District Health Department #10 and the Michigan Department of Environmental Quality conducted air sampling at some homes considered at risk for contamination. For those found to be high, basement ventilation systems were installed to vent the contamination outside of the home.

CAMP GRAYLING **PFAS INVESTIGATION**

2017 saw a high level of state-wide if ingested (eating or drinking). Wells concern for the possibility of groundwater were tested within the National Guard contamination around the Army Airfield facility and low levels of PFAS were found, at Camp Grayling National Guard Base in prompting testing in residential areas Crawford County. A family of chemicals around the airfield. Numerous public called Per- or Polyfluoroalkyl substances, meetings were held for the homeowners or PFAS, gained national attention in the area and testing and groundwater as possible emerging contaminants monitoring is continuing. In some cases and is a common chemical used in specialized water filters were installed cookware, clothing, fire-fighting foam until a more permanent solution can be and household fabric. It is only a concern found.

DRINKING WATER LABORATORY

If you have your own water supply (a well), District Health Department #10 encourages annual sampling of your drinking water to ensure that it is safe. Sampling is the only way to be certain that your water is not contaminated. In 2016 and 2017, the federal government temperature instituted time and



requirements for water samples—they must be analyzed within 30 hours of collection and must be refrigerated. These requirements made the collection of water samples in many parts of DHD#10 next to impossible to meet. Therefore, in May of 2017, DHD#10 opened a drinking water laboratory in Ludington to fill this need. The laboratory will do sampling of bacteria and nitrates in water. Bottles and mailing packets are available at all District offices.

FAMILY **PLANNING**

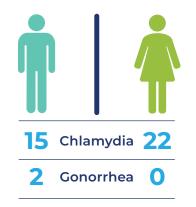
The staff in family planning at DHD#10 provides reproductive health care to men, women, and teens at low or no cost. By providing birth control education, birth control supplies, STI testing, and pregnancy testing, our staff helps clients plan for their families and prevent unintended pregnancies.



335 36,113 HIV TESTS **CONDOMS** DISTRIBUTED

STI TESTING & PARTNER SERVICES

When clients come in for STI testing and are found positive, DHD#10 provides Partner Services to treat their significant others.



2016-2017 **PARTNER SERVICES** PERFORMED **AFTER POSITIVE STI TESTING**

FAMILY PLANNING **NEEDS ASSESSMENT**

In June of 2017, DHD#10 asked community members and clients to help us improve family planning outreach and education. Over 500 people responded to our request and we are listening. Plans were developed for the new year to develop new social media campaigns, connect with schools, emphasize our confidentiality and low-cost, host open houses and market to male clientele.

WHERE TO REACH THEM



SEXUAL HEALTH

As part of the Northern Michigan Campaign to Improve Reproductive Health, known as Beforeplay.org, five young adults were trained as Sexual Health Ambassadors to start the conversation about sexual health with their peers. Ambassadors attended community events in Ludington, Baldwin and Big Rapids sharing easy to understand, factual and services offered by DHD#10.



WHAT TO SAY CONFIDENTIAL OPEN-MINDED LOW COST



to reach over 500 other young people, we are hoping to make sexual comfortable topic 0000 people to make safe health choices.



AUST TALK ABOUT IT

HEALTH PROMOTION

DHD#10's health promotion staff partners with programs throughout all ten counties to provide health education in various formats including one-on-one, group, classroom, and community education classes.

CHRONIC DISEASE **PREVENTION SUMMIT**

In September 2017, The Northwest Regional Chronic Disease Prevention Coalition gathered 87 community, regional and state partners for a Chronic Disease Prevention Summit at Ferris State University. The event provided opportunities for communities to connect and strengthen partnerships around their work to make DHD#10 a healthier place to live, work and play. Work was shared around school wellness, community gardens, farmers markets, tobacco free communities and other healthy community enhancements.

COMMUNITY **CONNECTIONS**

DHD#10, in alliance with the Northern Michigan Community Health Innovation Region (NMCHIR), launched a new FREE program offering connections to community resources for adults, children, and families called Community Connections. Through phone calls, home visits, and office visits, the multidisciplinary team of social workers, community health workers, and registered nurses work to remove health barriers by addressing Social Determinants of Health.

«TESTIMONIAL»

"I have been working with a Veteran referred to me by an MIHP nurse. He goes to her church. When we first started working together, the only healthcare he was receiving was through the VA. He had applied for Medicaid multiple times but was not successful. Once we got his Medicaid active, he immediately started seeking mental and dental services. He is also currently working to find a primary care physician. I will most likely close all of his pathways but the end of January."

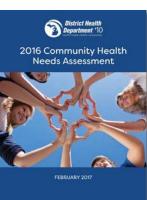
- Sarah Green DHD#10 Community Health Worker

"I just wanted to take a moment to tell you how appreciative I am of Sarah Green and the work she has done for a friend of mine. I am a deacon in my church and we have been working with an individual for guite some time with significant health, insurance (he's a veteran working with the VA), mental illness, and access problems. I asked Sarah for some help and she visited him, got him enrolled in Medicaid, and referred him to CMH. He has already had dental work done, gone to CMH for an intake, and Sarah is currently working on getting him a local physician. My friend has been so much happier and more upbeat over the last couple weeks and it has been noticed in our church council as well."

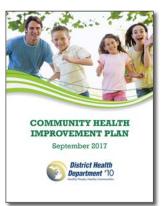
- Church Decon and friend of veteran

COMMUNITY HEALTH **NEEDS ASSESSMENT & IMPROVEMENT PLAN**

During the past fiscal year, DHD#10 set out to assess the health status of our communities and develop goals, objectives, and strategies to make improvements over the next three years.



The Community Health Needs Assessment (CHNA) serves as a guide for DHD#10 and community partners to understand the health status of our region and identify both the bright spots and the areas of concern impacting the health of residents in the jurisdiction.

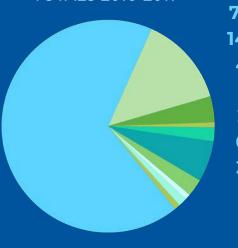


Armed with data from the CHNA, The Community Health Improvement Plan (CHIP) provides a road map for moving toward communities where people find it easy to live a healthy lifestyle. The CHIP takes the approach of prioritizing the health issues and tailoring improvements for each of our 10 unique counties.

PERSONAL HEALTH

DHD#10's personal health staff is committed to helping prevent the spread of infectious diseases in our communities. Through immunizations, education, routine testing, and quick response to unusual outbreaks, our team of professionals ensure the public has access to life-saving, preventative services.

DHD#10 COMMUNICABLE DISEASE TOTALS 2016-2017



715 Chlamydia 146 Hepatitis C 42 Campylobacter Chicken Pox 8 Salmonellosis 22 Gonorrhea 66 **28** Streptococcal Diseases 9 E.coli (STEC) **14** Giardia 9 Pertussis

	2016-2017	2015-2016	2014-2015	2013-2014
Chlamydia	715	767	743	595
Hepatitis C (chronic)	146	208	263	179
Campylobacter	42	47	36	42
Chicken Pox	8	4	12	28
Salmonellosis	22	24	22	20
Gonorrhea	66	58	43	33
Streptococcal Diseases	28	35	44	9
Shiga Toxin Producing Escherichia Coli (STEC)	9	8	4	6
Giardia	14	18	25	16
Pertussis	9	7	74	38

Public health nurses are in charge of monitoring communicable diseases, gathering pertinent information, and notifying individuals who may be exposed. DHD#10 has an Epidemiologist on staff to assist with outbreaks, monitor disease trends, and apply science and strategy when necessary.

EXPANDED **HEALTHY FUTURES PROGRAM**

A partnership between local health departments, health care providers, and Munson Healthcare, the Healthy Futures program focuses on breastfeeding longevity, access to health care, and immunizations for pregnant women planning to deliver at Munson in Cadillac, Manistee, or Grayling, or have a child up to two years old.

IMPROVED DENTAL APPLICATIONS

DHD#10's personal health division collaborated with the WIC program to train registered nurses on how to provide dental screening and apply fluoride varnish in order to prevent, slow down, or stop tooth decav.

31 ADDITIONAL REGISTERED NURSES TRAINED

PLANNED **INCREASE OF MIHP PARTICIPATION**

In collaboration with DHD#10's WIC program, six additional registered nurses were trained to provide Maternal Infant Health Program (MIHP) services to pregnant women and children under age one. The purpose of MIHP is to promote healthy pregnancies, positive birth outcomes, and healthy infant

growth and development.





240

COMBINED DENTAL SCREENINGS & VARNISH APPLICATIONS

PREGNANT WOMEN SERVED



WOMEN, INFANTS, & **CHILDREN (WIC)**

Women, Infants, and Children (WIC) staff at DHD#10 strive to support healthy mothers and children through breastfeeding support, access to healthy foods, and developing strong foundation for a healthy life.

8,382 **AVERAGE** MONTHLY **ENROLLMENT**

4,982 **PROJECT FRESH COUPON BOOKS** DISTRIBUTED

\$124,625 **TOTAL VALUE OF PROJECT FRESH COUPONS DISTRIBUTED**

CHILD FLUORIDE VARNISHES & ORAL SCREENINGS

265 SCREENING

AND THE AWARD GOES TO ... **DHD#10 WIC PROGRAM**

DHD#10 received the 2017 National USDA Loving Support award of Excellence. They were first out of 83 local agencies in the nation. The award recognizes local WIC agencies that have provided exemplary breastfeeding promotion and support activities.

DHD #10 received Silver-level of the Michigan Breastfeeding-Friendly Workplace Award, awarded and recognized by the Michigan Breastfeeding Network.



Pictured: Julie Lothamer, Breast feeding Peer Counselor Coordinator, DHD#10's Deb Hamler, Anne Bianchi, and Meryl Smith, and Stan Bien, WIC Director



IMPLEMENTED EAT FIT NORTHWEST **MICHIGAN**

Lake County WIC staff was awarded a grant in conjunction with Lake County Community Partnerships of Healthy Mothers and Children (CPHMC) funded by the CDC and the National WIC Association. The team implemented an Eat Fit Northwest Michigan healthy options menu at the Marquette Trails Golf Club.

RESPONDING TO PUBLIC HEALTH CHALLENGES:

THE GREAT FLOOD OF 2017

By Terry Babcock | Kalkaska County WIC Clerk/Technician

"On April 17, 2017 life as we knew it at the Kalkaska office of DHD#10 changed. On entering the building, our receptionist Michelle Hill walked into a lobby with water on the floor coming over her shoes. As the enormity of the situation settled over us during the next few days we were totally overwhelmed. Since we would not be able to be back in our building for 3 weeks (turned out to be 3 months), we had to scramble looking for a place to hold our clinics. Kalkaska Church of Christ graciously offered to let us be in their building for our WIC clinics. [...] People (for the most part) are not big fans of change and we had change. We all pulled together and waited and waited and waited. Progress was slow but the end results have been great. Our building has a new updated look. We learned what we can accomplish when we work as a team. [...] We must thank our Supervisors and Directors for all the extra support they gave."





EMERGENCY PREPAREDNESS

DHD#10 is dedicated to protecting the health of our communities during public health emergencies, including those caused by terrorist acts using biologic, chemical, and radiological agents. We also focus on minimizing the effects of infectious disease outbreaks and other health concerns. We actively collaborate with local, regional, state, and federal agencies to prepare for and respond to incidents that threaten public health.

EMPLOYEE TRAINING

DHD#10 staff took part in Strategic National Stockpile (SNS) Point of Dispensing (POD) training to become familiarized with their roles during an actual operation. A POD site is a designated site for the distribution of SNS medication in the event of an emergency. This mandatory training was facilitated by the Emergency Preparedness staff and was held at three different locations within the jurisdiction.



EMPLOYEE SECURITY

A new measure of security was added to all DHD#10 buildings with the implementation of an employee badge access system. Exterior doors at each location now have access systems installed, and several key internal doors also have them to limit the access of unauthorized people.

EMPLOYEE SAFETY

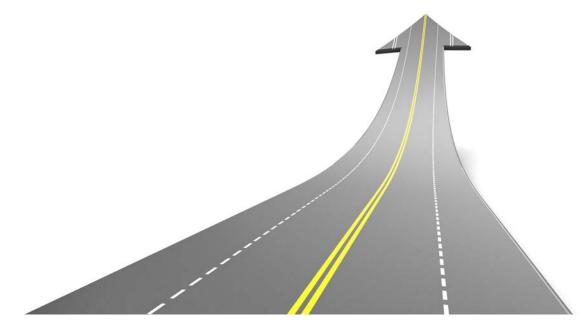
DHD#10 employees received a lunchtime training on Active Shooters. Developed an provided by the Emergency Preparedness Supervisor, employees learned about Michigan weapons laws, health department safety policies, personal safety techniques, and steps to follow during an active shooter situation.

MY COMMUNITY DENTAL CENTERS (MCDC)

My Community Dental Centers (MCDC) is a non-profit 501(c)3 corporation, established in 2006, dedicated to providing dental services to Medicaid enrollees and low-income, uninsured residents throughout the state of Michigan. It is their mission to improve the lives of our patients and enhance community health by setting the highest standard of health care.

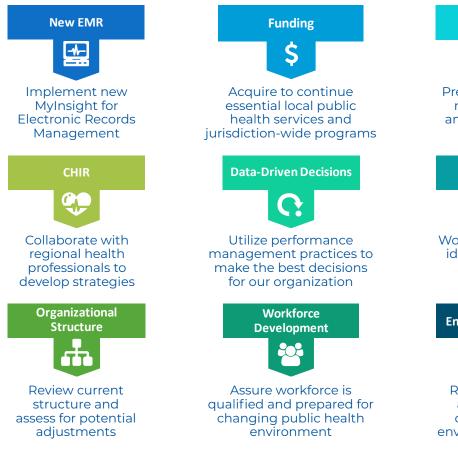
COUNTIES	UNIQUE PATIENTS	TOTAL OFFICE VISITS	POPULATION
Crawford	783	2,039	14,074
Kalkaska	1,593	4,117	17,153
Lake	468	1,073	11,539
Manistee	2,481	6,177	24,733
Mason	1,802	4,355	28,705
Mecosta	2,271	5,543	42,798
Missaukee	1,000	2,168	14,849
Newaygo			48,460
Oceana	2,090	5,160	26,570
Wexford	2,715	5,659	32,735
TOTAL	15,203	36,291	261,616





MOVING FORWARD 2017-2018

Looking ahead to the next fiscal year, DHD#10 faces several challenges, yet we are prepared to meet them head on. Through strategic planning, collaboration with community partners, and good old elbow grease, we head into the next year equipped to achieve our mission of promoting and enhancing the health of our communities and environment through protection, prevention, and intervention.





identify and tackle regional public health issues



Remain steadfast and supportive during ongoing environmental issues DHD#10 recognizes all of the partnerships and support we receive from numerous outside agencies. With so much cross-jurisdictional sharing, partnerships, and support, we are able to continue offering unique programming and comprehensive public health services to our entire 10-county jurisdiction.

Michigan Community Dental Centers Dental Clinics North Tencon Health Plan Board Health Department of Northwest Michigan Michigan Cancer Consortium Ferris State University **City of Big Rapids** Ice Mountain **Snyder Shoes United Health Care Spectrum Health Gerber Memorial** Spectrum Health Big Rapids Northwest Michigan Chronic Disease **Prevention Coalition**

Thank You!

Spectrum Health Reed City Michigan Health Endowment Fund Northwest Michigan Health Services **Alcona Health Center Cadillac Area Public Schools Crawford Ausable School District MDHHS Federal Grants** Manton Consolidated Schools **Mesick Consolidated Schools Shelby Public Schools** Lake County Juvenile Court St. Stephen's Council of Women **Kiwanis Club of Kalkaska**



District Health Department #10

Healthy People, Healthy Communities

CRAWFORD COUNTY

501 Norway St., Ste. 1 Grayling, MI 49738 989-348-7800

MANISTEE COUNTY 385 Third St. Manistee, MI 49660 231-723-3595

MISSAUKEE COUNTY 6180 W. Sanborn Rd. Ste. 1 Lake City, MI 49651 231-839-7167

KALKASKA COUNTY

625 Courthouse Dr. Kalkaska, MI 49646 231-258-8669

MASON COUNTY 916 Diana St. Ludington, MI 49431

231-845-7381

NEWAYGO COUNTY 1049 Newell St.. White Cloud, MI 49349 231-689-7300

LAKE COUNTY

5681 S. M-37 Baldwin, MI 49304 231-745-4663

MECOSTA COUNTY 14485 Northland Dr. Big Rapids, MI 49307 231-592-0130

OCEANA COUNTY 3986 N Oceana Dr. Hart, MI 49420 231-873-2193 **WEXFORD COUNTY** 521 Cobb St. Cadillac, MI 49601 231-775-9942











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