

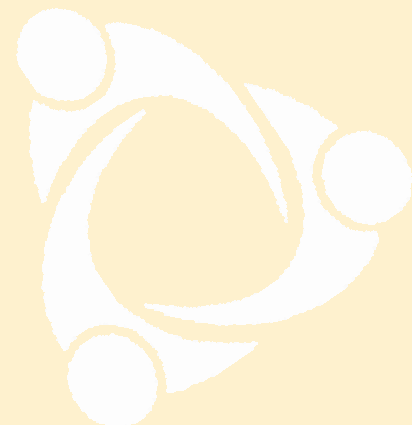
District Health Department #10



***District Health
Department #10***

Strong Communities Through Healthy People

2010
Annual Report



2010
BOARD OF HEALTH



Public Health
Prevention. Promotion. Protection.

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MISSION STATEMENT

The mission of
District Health Department #10
is to promote and enhance the
health of all individuals through
education, prevention, intervention, and
protection of the environment.





Dear Residents of District Health Department #10,

I am pleased to share with you a summary of public health services and accomplishments provided in your community during the 2009/10 year. The year brought many challenges to the department; most notable was the implementation of community preventive measures against H1N1 influenza. H1N1 tested many of our public health preparedness plans: specifically in the area of communication and planning with other community partners. DHD#10 through clinics and community partners administered 55,035 doses of H1N1 vaccine.

DHD#10 is a very unique public health department in that it is the largest geographical health jurisdiction in Michigan and the 10th largest based upon population. The needs in our community are extensive our counties have high teen pregnancy rates, high unemployment rates and high poverty levels. All of these place a significant burden upon an under funded public health system. Your local health department operates under the Public Health Code of 1978 which calls for a state-local partnership in funding mandated public health services, the allocation from the State for these mandated services in 2010 was less than received ten years ago.

DHD#10 is accredited by the Michigan Local Public Health Accreditation Program. To assure program compliance a site visit from program reviewers is completed every three years. The most recent review was in June 2010 and the department has received full accreditation status. This also included compliance with an optional quality improvement section.

Your health department continues to offer a wide range of public health programs aimed at improving the health outcomes of our residents and insuring a safe environment. I commend the work of the Board of Health which has provided leadership and support to the department during these challenging financial times.

In closing, I need to recognize the staff of District Health Department #10; they are positive, energetic and place customer service at the top of their list. We look forward to continuing to strive to make improvements to services and programs that will best meet the needs of the communities in the coming years.

Sincerely,

Linda VanGills, MA

Health Officer

CORE FUNCTIONS AND ESSENTIAL SERVICES

The Michigan Public Health Code defines a set of basic health protection services to be provided by the local health department. These include public health emergency response activities, as well as certain programs known as Local Public Health Operations:

- Food Protection
- Hearing Screening
- Immunizations
- Infectious/Communicable Disease Control
- Public/Private Sewer
- Public/Private Water Supply
- Sexually Transmitted Disease Control
- Vision Screening

Various other programs are provided based on specific community needs. In the course of fulfilling our mission, DHD #10 utilizes the three core functions of Public Health:

- Assessment- of community health status
- Policy Development- promoting scientific decision making
- Assurance- of service to achieve health goals

Within these broad functions, ten essential services are performed to accomplish the core functions.



PUBLIC HEALTH WORK FORCE



The Human Resource division continues to strive towards employing and maintaining a competent work force through consistent administration and application of the agency's personnel policies. Duties include enforcement of agency personnel policies, employee benefits, and compliance with federal and state labor law.

2010 Highlights

DHD #10 employs a diverse work force of Registered Nurses, Health Educators, Environmental Health Sanitarians, Social Workers, Dietitians, Support Staff, Paraprofessionals, Clinic Technicians, Computer Technicians, Accounting Staff, Administrative Assistants, and Human Resource Staff. Of our 168 employees:

- 126 are full time
- 19 are part time
- 23 are contractual

We greatly value and appreciate the dedication and longevity of our staff. The average length of service is 12.8 years. 27% of staff have served 20 or more years, and currently there are 14 employees with over 30 years of service.

OUR VALUES

Integrity

Responsibility

Accountability

Customer Service

Positive Attitude

Communication

| 5 YEARS | 10 YEARS | 15 YEARS | 20 YEARS | 25 YEARS | 30 YEARS |
|------------------------------------|--|--|--|--|--|
| Cathy Booher, Health Educator | Tracy Anderson, WIC Clerk | Karen Lawton, Maternal/Child Nurse | Berneita Childress, Clerical Team | Brenda Kailing, Emergency Response Specialist | Becky Gaines, Human Resource Director |
| Sanna Johnson, Clerical Team | Kendra Gibson, WIC Dietitian | Dawn Taylor, Billing Coordinator | Norm Grinnel, Environmental Health Sanitarian | Annette Marvin, Public Health Nurse | Jan Potvin, Public Health Coordinator |
| Julie Lamb, Clerical Team | Jen Hansen, Health Educator | | Mark Hill, Environmental Health Sanitarian | Mary Zakrajsek, Public Health Tech | Molly Thomson Clerical Team |
| Heather Miller, Health Educator | Julie Hilkowski, Human Resource Assistant | | | | Susie Tripp, Public Health Nurse |
| Mary Rangel, WIC Clerk | Lynn Martin, Finance Clerk | | | | |
| Alice Reber, Clerical Team | | | | | |

MEDICAL DIRECTOR

The Medical Director provides general medical oversight of Health Department programs, and provides consultation to local health care providers regarding infectious diseases and other health issues.

The year of 2010 has been busy for the public health staff with the H1N1 influenza pandemic. Fortunately the virus turned out to be not as severe a cause of serious illness as it could have been. District #10 was recognized by the Michigan Department of Community Health for our efforts in distributing the vaccine.

Vaccinations will continue to increase in importance for disease prevention. I anticipate new diseases will come under the category of vaccine preventable illness in the future. We still have the challenge of misinformation about good immunization products and procedures; staff will continue with public information campaigns for promoting population based medicine and vaccine safety.

The new healthcare legislation and system changes are yet to be sorted out. Public health workers hope to play a significant role in disease prevention and health promotion in the new healthcare system. Health promotion programs in lifestyle modification, regular preventive health services, immunizations, good nutrition and healthy activities will continue to be a focus of public health recommendations for public policy modifications. A renewed emphasis upon personal responsibility for risk reduction and disease management will be a focal point for controlling healthcare costs.

Our wonderful staff continues to administer public health programs aimed at improving population health. The department will continue to investigate disease outbreaks, promote a healthy environment, and implement programs which enhance the health of our residents. We are hopeful our economy will improve, which will lead to better health care access and status for our residents.

Sincerely,

James Wilson, DO

Medical Director

The Emergency Response & Preparedness Division focuses on minimizing the effects of infectious disease outbreaks and other health concerns by collaborating with local, regional, state and federal agencies to prepare for and respond to incidents that threaten public health.

EMERGENCY PREPAREDNESS AND

In 2010, DHD #10 again received funding from the Michigan Department of Community Health and the Centers for Disease Control and Prevention to enhance emergency preparedness and response to public health hazards of many kinds, including pandemic influenza. As a result, we continue to work with our local partners in emergency management, law enforcement, health care, schools, and human service organizations to ensure our communities are ready to respond to a variety of public health challenges.

As a continuation from 2009, DHD #10 emergency response staff spent much of their time assisting with H1N1 activity in 2010. The H1N1 vaccination focus evolved from general community vaccinations to a more targeted approach. DHD #10 staff implemented a campaign to vaccinate special populations and "hard to reach" individuals and emergency response staff assisted with that effort.



ADMINISTRATIVE SERVICES

Administrative Services comprises the financial management, accounting, billing, information systems, and office support staff.

Duties include complying with budgeting requirements and reporting to the various local, state, and federal agencies that provide financial resources to the agency.

| | Amount% of Total | |
|--|-------------------|--------|
| State Funding | 4,893,128 | 29.42% |
| County Appropriations & Space | 2,817,901 | 16.94% |
| Insurance Collections/Fees | 2,244,425 | 13.49% |
| Medicare/Medicaid | 3,980,985 | 23.93% |
| Essential Local Public Health Services | 1,325,425 | 7.97% |
| Other Grants/Contracts | 1,326,970 | 7.98% |
| Cigarette Tax | 44,862 | 0.27% |
| Total Revenues | 16,633,696 | |

| | | |
|--|-------------------|--------|
| Wages | 7,301,635 | 46.24% |
| Fringes | 3,717,651 | 23.54% |
| Travel | 456,668 | 2.89% |
| Supplies | 973,639 | 6.17% |
| Contractual | 734,804 | 4.65% |
| Communications | 244,277 | 1.55% |
| Capital Outlay | 207,179 | 1.31% |
| VFC Vaccine Value | 736,051 | 4.66% |
| Space | 1,186,581 | 7.51% |
| Other: Maintenance, Education/Training, Liability Insurance, Board of Health | 231,804 | 1.47% |
| Total Expenditures | 15,790,289 | |

| | |
|-------------------------------|----------------|
| Designated Fund Balance FY11 | 821,292 |
| General Fund Balance Increase | 21,115 |
| Fund Balance | 843,407 |

COMMUNICABLE DISEASES, 2007-2010

Flu-like' disease is always going to be the most common illness. However, FY09-10 represents an anomaly since we had the Novel Influenza H1N1 "Swine" Flu outbreak. Increased immunization rates due to that event may very well cause a decrease this year (2010) and next.

Chlamydia is still our number one STD (and in the state also).

'Gastrointestinal illness' category is a 'catch all' from the schools. While we don't have a comparable category from prior years, we will be able to build on this data as the years go by.

Chronic Hepatitis C is, of course, a major problem which will most likely continue at the current rate.

Campylobacter (bacteria in intestinal tract) has shown a slight, but consistent, increase over the past few years.

Pertussis continued its increase in the past year. It is estimated that Michigan will increase 63% in 2010 over 2009 and it increased 256% in 2009 over 2008. A booster dose is now required in school attendees.

An additional comment:

Even though some diseases (such as TB or Meningococcal Meningitis) occur quite rarely, and would never be on this list, they can create a large amount of work for our staff given the right circumstances. And even the suspicion of a case can also create a large amount of work.

| | FY 2007-2008 | FY 2008-2009 | FY 2009-2010 |
|---------------------------------|----------------------|----------------------|---------------|
| Flu Like Diseases | 5,432 | 5,917 | 11,785 |
| Head Lice | 1,058 | 1,175 | 753 |
| Strep Throat | 807 | 865 | 529 |
| Chlamydia | 428 | 468 | 476 |
| Gastrointestinal Illness | Not reported in MDSS | Not reported in MDSS | 335 |
| Influenza (Novel 2009) | 0 | 0 | 179 |
| Hepatitis C (Chronic) | 156 | 145 | 157 |
| Campylobacter | 33 | 34 | 48 |
| Pertussis | 3 | 27 | 38 |
| Chicken Pox (Varicella) | 120 | 40 | 30 |
| Gonorrhea | 31 | 26 | 27 |

| 2009-2010 | Crawford | Kalkaska | Lake | Manistee | Mason | Mecosta | Missaukee | Newaygo | Oceana | Wexford | DHD#10 Totals |
|----------------------------------|----------|----------|------|----------|-------|---------|-----------|---------|--------|---------|---------------|
| Flu-Like | 517 | 768 | 779 | 1,051 | 171 | 3,075 | 233 | 3,766 | 490 | 935 | 11,785 |
| Head Lice | 26 | 33 | 165 | 47 | 71 | 118 | 75 | 76 | 80 | 62 | 753 |
| Strep Throat | 50 | 114 | 6 | 16 | 38 | 99 | 16 | 152 | 14 | 24 | 529 |
| Chlamydia (Genital) | 33 | 30 | 24 | 26 | 32 | 96 | 20 | 90 | 56 | 69 | 476 |
| Gastro-Intestinal Illness | 31 | 48 | 0 | 0 | 0 | 0 | 26 | 227 | 2 | 1 | 335 |
| Influenza (Novel 2009) | 8 | 31 | 0 | 4 | 9 | 9 | 3 | 6 | 3 | 106 | 179 |
| Hepatitis C (Chronic) | 10 | 17 | 10 | 17 | 9 | 17 | 2 | 31 | 16 | 28 | 157 |
| Campylobacter | 0 | 1 | 0 | 7 | 3 | 9 | 6 | 9 | 5 | 8 | 48 |
| Pertussis | 1 | 0 | 0 | 18 | 1 | 7 | 0 | 6 | 1 | 4 | 38 |
| Chickenpox (Varicella) | 3 | 5 | 0 | 2 | 1 | 3 | 0 | 13 | 2 | 1 | 30 |
| Gonorrhea | 0 | 2 | 1 | 1 | 0 | 9 | 3 | 5 | 1 | 5 | 27 |

LEADING CAUSES OF DEATH

| Rank MI | Cause of Death | Number of Deaths | | | Rate of Death per 100,000 | | |
|------------------|------------------------------------|------------------|--------|-----------|---------------------------|-------|-------|
| | | DHD#10 | MI | U.S. | DHD#10 | MI | U.S. |
| 1 | Heart Disease | 663 | 24,369 | 631,636 | 254.3 | 243.6 | 211.0 |
| 2 | Cancer | 596 | 20,159 | 559,888 | 228.6 | 201.5 | 187.0 |
| 3 | Chronic Lower Respiratory Diseases | 168 | 5,161 | 124,583 | 64.4 | 51.6 | 41.6 |
| 4 | Stroke | 163 | 4,650 | 137,119 | 62.5 | 46.5 | 45.8 |
| 5 | Unintentional Injuries | 135 | 3,679 | 121,599 | 51.8 | 36.8 | 40.6 |
| 6 | Diabetes Mellitus | 74 | 2,749 | 72,449 | 28.4 | 27.5 | 24.2 |
| 7 | Alzheimer's Disease | 94 | 2,734 | 72,432 | 36.1 | 27.3 | 24.2 |
| 8 | Pneumonia/Influenza | 66 | 1,875 | 56,326 | 25.3 | 18.7 | 18.8 |
| 9 | Kidney Disease | 40 | 1,659 | 45,344 | 15.3 | 16.6 | 15.1 |
| 10 | Intentional Self-harm (Suicide) | 29 | 1,173 | 33,300 | 11.1 | 11.7 | 10.7 |
| Sub Total | | 2,028 | 68,208 | 1,854,676 | 777.9 | 681.8 | 619.4 |
| All Other Causes | | 531 | 20,064 | 571,588 | 203.7 | 200.6 | 190.9 |
| Total | | 2,559 | 88,272 | 2,426,264 | 981.6 | 882.4 | 810.3 |

Public Health is a Wise Investment... Public Health and Economic Security

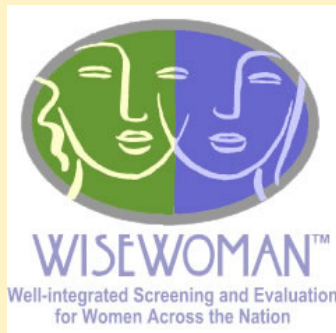
"Poor health is putting the nation's economic security in jeopardy. Helping people to stay healthy and better manage illnesses are the best ways to drive down health care costs..."

We need to rethink how we spend our health dollars. Investing in public health tops the list of ways we could start spending smarter."

R.W. Johnson Foundation

PUBLIC HEALTH STAFF...

During a lifestyle counseling session with one of our WISEWOMAN clients, she indicated that she really struggled with staying motivated to exercise. She was overwhelmed by the world of fitness and the idea that you need special equipment/ clothing/tools/etc. The health educator talked to her about our short 15 minute do-at-home videos on the DHD10 website and demonstrated the site. She agreed to try them as part of our lifestyle goal.



One month later, she reported back that she had been doing the videos every other day, and had sought out other free videos online. Between a free YouTube channel of workouts and our website videos, she was exercising for at least 15 minutes every single day in her living room and LOVING it! We expect to hear even more great results from this client in the next few counseling sessions.

PHYSICAL ACTIVITY IMPROVES WEIGHT LOSS, REDUCES STRESS LEVELS, AND POSITIVELY IMPACTS CHRONIC DISEASE AND DEPRESSION

The impact of lifestyle counseling often has an effect beyond the client being served. One example is a woman who came in for her Tencon health screening appointment with her 20 year old son who was obese. She requested that he be allowed to stay for her screening.

The young man listened as his mom's screening results were explained and she was counseled on her risks. He asked a lot of questions and received risk reduction education, lifestyle counseling and support from the health educator. This has continued over the past year as he kept in contact with our staff sending email updates on the changes he's made in his diet and exercise. He has lost over 70 pounds so far!

OBESITY IS A MAJOR CONTRIBUTING FACTOR TO CANCER, CARDIOVASCULAR DISEASE & DIABETES

Sometimes public health depends on community involvement for protection. Recently a resident and his son who frequently canoe the Au Sable River spotted a pipe that they had not seen before. The pipe was discharging a dark liquid with a strong odor into the river. The gentleman reported his concerns to the health department.

Our environmental health sanitarian located the pipe and tracked it back to a cottage. The cottage had been empty for several years but was now being occupied. The new owner had no idea that his wastewater was draining into the river. As a result, a new septic system for the cottage was installed thus protecting the river. This was especially important since the river is a state-designated Wild and Scenic River with a large amount of recreational activity on it.

PUBLIC HEALTH PROTECTS WATER QUALITY AND REDUCES WATERBORNE ILLNESS



...“MAKING A DIFFERENCE”

A one year old child presented to the WIC clinic with inadequate growth. The WIC Dietitian consulted with the family engaging the parents in high protein/calorie dietary strategies. Parents were very interested and left eager to implement RD recommendations. Four months later, the child proved to have adequate weight gain, advancing from the 5th to the 10th percentile weight for length.

WIC: IMPACTING FAMILY HEALTH OUTCOMES THROUGH EDUCATION



Public Health staff deal with exposure to bats and animal bites as part of the Communicable Disease Program. One situation this year was a family who woke up one night to find a bat in their child's crib; the child had a scratch on the neck. The bat was sent into the state lab for RABIES testing and the results came back positive. Staff worked with the family providing education and support. The child received the necessary post exposure treatment to prevent rabies.

RABIES IS NEARLY ALWAYS FATAL. PROMPT ACTION AND PROPHYLAXIS TREATMENT PREVENTS HUMAN RABIES.

Linking people in need to services is a huge role that public health plays behind the scenes. One success that touched a whole family involved an 18 year old who came in for a pregnancy test. She had already made the decision to adopt out her baby. During her counseling visit she shared the struggles of her family including lack of work, no insurance, and her mom's struggle with depression.

Our nurse called WIC staff over who immediately enrolled her into WIC for supplemental food assistance; then enrolled her, her mother, and her two younger brothers into Medicaid programs; the step-dad was enrollment into the Tencon Health Plan; and then the young mom met with our Maternal Infant Health Program nurse for support services! Public health strives to address family needs and not just singular issues.

PUBLIC HEALTH PLAYS A CRUCIAL ROLE IN ACCESS TO HEALTH CARE

Pertussis has increased here in Michigan and across the country. One of our counties had 3 confirmed cases of Pertussis this past year - one case was an adult, and the other 2 cases were in school age children. Pertussis is a vaccine preventable disease that can occur in children as well as adults.

Staff worked with the schools, an after school program, school personnel, and the medical community to alert and educate the community on the symptoms of Pertussis and preventative measures. Special clinics were provided to update immunizations. We were able to prevent additional cases due to the prompt investigation and follow up.

IMMUNIZATION IS THE MOST SUCCESSFUL APPROACH TO PERTUSSIS CONTROL.





ENVIRONMENTAL HEALTH

The Environmental Health Division monitors and protects the public's food, air, and water through community inspection, education, and enforcement of environmental rules and laws.

The Environmental Health division continues to have many challenges in 2010. In 2009, the Division was deeply effected by the decline in the economy and the collapse of the housing market. This resulted in some reduction in staff and the remaining staff covering larger service areas. On the positive, response time to services continues at a high level. In addition, the Division has strived to maintain the quality of its program. The Environmental Health Division was able to pass all four of its state accreditation reviews without any need for corrective action. Also by the end of this fiscal year, the agency began to see some improvement in the housing market with the hopes of an economic recovery.

| Community Health and Safety | Campground Inspections | Swimming Pool Inspections | Child Care Facility Inspections | Complaint Investigations |
|-----------------------------|------------------------|---------------------------|---------------------------------|--------------------------|
| District Totals | 279 | 179 | 274 | 311 |

| On-Site Sewage | Septic Permits | Denied Permits | Final Inspections | Mortgage Evaluations | Building Permit Approvals | Soil Evaluations |
|------------------------|----------------|----------------|-------------------|----------------------|---------------------------|------------------|
| District Totals | 1,273 | 0 | 1,058 | 217 | 347 | 54 |

| Food Safety | Fixed Food Establishment Inspections | Temporary Food Establishment Inspections | Food Safety Class Participants | Food-Borne Illness Investigations |
|------------------------|--------------------------------------|--|--------------------------------|-----------------------------------|
| District Totals | 1,992 | 581 | 129 | 28 |

| Water Supply Program | Well Permits | Well Inspections | Type II Sanitary Surveys |
|------------------------|--------------|------------------|--------------------------|
| District Totals | 1,361 | 377 | 239 |

HEALTH PROMOTION



Youth Programs

Youth programming across the ten counties focuses on supporting healthier choices and improving the health of our communities' youth. One such program is Girls on the Run (GOTR), a curriculum based program that aims to increase physical activity and promote healthy lifestyle choices amongst young girls. In 2010, the program was successfully introduced in Kalkaska County, bringing the total participants to 1,128 across nine of our ten counties. Another successful introduction was that of the Wexford Adolescent Wellness Center (WAWC). Finally, the Teen Pregnancy Prevention Initiative (TPPI) in Oceana & Wexford Counties and the tobacco/alcohol reduction plans reached many students in their respective counties.

| Youth Programs | GOTR Participants | Students Served at WAWC | Student Participants in TPPI | Tobacco Coalition Participants | NMSAS Training Participants |
|------------------------|-------------------|-------------------------|------------------------------|--------------------------------|-----------------------------|
| District Totals | 1,128 | 110 | 223 | 183 | 32 |

Family Health

The Breast and Cervical Cancers Control Program (BCCCP) provides cancer screenings to un- and under- insured income eligible women. As part of this program, partnerships with local mammography facilities and health care providers are in place to provide comprehensive screening and diagnostic services locally. If cancer is detected through the program women are enrolled in the Medicaid Treatment Act to cover their treatment specific to breast and cervical cancers. In addition, a heart health screening component is available through the BCCCP program called Wisewoman. It provides cardiovascular risk assessment, risk reduction counseling and lifestyle modification follow-up. Additional Family Health programs include Colorectal Cancer Screening (CRC) and Family Planning clinical, contraceptive and education services.

| Family Health Programs | BCCCP Women Served | Wisewoman Screenings | Wisewoman Follow Up Contacts | CRC Screenings | Family Planning Participants | Tencon Screenings |
|------------------------|--------------------|----------------------|------------------------------|----------------|------------------------------|-------------------|
| District Totals | 1,851 | 1,489 | 4,409 | 427 | 3,149 | 965 |

The Health Promotion Division provides health risk assessment, risk reduction and health intervention services targeting public health priorities aimed at improving health outcomes.



PERSONAL HEALTH

The Personal Health Division provides preventative health services to individual and families in clinic, homes, schools and other community settings.

Service areas include communicable disease control, immunizations and maternal-child health programs.

There were again many highlights for the Personal Health division. H1N1 continued to be a focus, and the division provided H1N1 clinics in the community, including schools, as well as at the Health Department. Coordinated H1N1 activities with the medical community, pharmacies, home care agencies and community agencies also occurred.

| Immunizations | Vaccines Administered | H1N1 Vaccines Administered | Influenza Vaccines Administered |
|------------------------|-----------------------|----------------------------|---------------------------------|
| District Totals | 17,720 | 30,236 | 11,148 |

The Division received several grants over the past year. First was a grant from the Fremont Area Community Foundation to assist families in Newaygo County with special needs children. This grant helped families with transportation needs and medical supplies. Next was a grant from Great Parents Great Start in Mecosta County to provide maternal and child health services to eligible families.

| MIHP | MIHP Maternal Clients | MIHP Maternal Visits | MIHP Infant Clients | MIHP Infant Visits |
|------------------------|-----------------------|----------------------|---------------------|--------------------|
| District Totals | 874 | 5,624 | 717 | 7,889 |

Other highlights include the coordination of a service agreement with Mason/Lake ISD to provide home visits and parenting support to families identified by Early On staff; working with the schools to coordinate the new immunization requirement for all 6th graders; participating in the accreditation process passing all indicators for the following programs: Communicable Disease, Immunizations, HIV, STD, Hearing, Vision, Children's Special Health Care Program and the Maternal Infant Health Program.

| Hearing & Vision | Head Lice Checks | Preschool Hearing Tests | School-Age Hearing Tests | Preschool Vision Tests | School-Age Vision Tests |
|------------------------|------------------|-------------------------|--------------------------|------------------------|-------------------------|
| District Totals | 201 | 2,920 | 8,113 | 2,795 | 15,418 |

| Communicable Disease Control | Total of Comm. Disease Services | TB Tests | STD Services | HIV Tests |
|------------------------------|---------------------------------|----------|--------------|-----------|
| District Totals | 3,299 | 2,345 | 801 | 103 |

WOMEN, INFANTS, AND CHILDREN (WIC)



The WIC program had a very successful 2010. The division received several awards and acknowledgement. Full accreditation was achieved by completing the 2010 MDCH WIC Management Evaluation in June. The program also received special recognition from MDCH for breastfeeding program activities and initiation rate.

| WIC | Average Monthly Resident Enrollment | Average Monthly Migrant Enrollment | Average Client Return Rate | Average Breastfeeding Initiation Rate |
|-----------------|-------------------------------------|------------------------------------|----------------------------|---------------------------------------|
| District Totals | 9,418 | 607 | 91% | 67% |

In staffing news, DHD# 10's WIC program received the MDCH grant for a new WIC Breastfeeding Peer Counselor Program to allow for expansion into Lake and Mecosta Counties. 2010 saw continued collaboration with MSU Extension supporting the Breastfeeding Peer Counselor Programs in Crawford, Kalkaska, Manistee, Mason, Newaygo, Oceana, Wexford and Missaukee. Finally, three additional WIC/Maternal Child Health staff achieved Certification as Lactation Specialists.

As far as clientele go, this year 1,468 children were screened for Blood Lead poisoning in DHD #10 WIC clinics, as compared 1,022 in 2009, and the most ever since the program began in 2006. Another notable success among clients was the Project FRESH-WIC Farmers' Market Nutrition program. Redeemed coupons nearly doubled from 2009 to 2010 (value of \$28,120 to \$52,300).

| WIC | Project Fresh Coupons | \$ Value of Coupons Used | Blood Lead Tests |
|-----------------|-----------------------|--------------------------|------------------|
| District Totals | 2,615 | \$52,300 | 1,468 |

The WIC division provides supplemental food and nutrition education for pregnant, postpartum and breastfeeding women as well as children up to the age of 5.

H E A L T H D E P A R T M E N T

The following pages provide specific service data by county for major DHD #10 program areas.
Information is not included on all programs and services offered.

LOCAL PUBLIC HEALTH OPERATIONS (LPHO)

LPHO includes eight fundamental public health services and are mandated in Part 24 of the Public Health Code, Public Act 368 of 1978. These services account for a large portion of the reduction of morbidity and mortality rates over the last fifty years. Services are provided under an agreement with the Michigan Department of Community Health (MDCH). The Public Health Code states these programs will be cost shared between the state and local boards of health. The present funding distribution is 77% local funds and 33% state funding. The State only fulfilled their commitment one year since the passage of the Public Health Code.

| | CRAWFORD | KALKASKA | LAKE | MANISTEE | MASON | MECOSTA | MISSAUKEE | NEWAYGO | OCEANA | WEXFORD | TOTALS |
|-------------------------------|----------|----------|-------|----------|-------|---------|-----------|---------|--------|---------|---------------|
| Onsite Sewage | | | | | | | | | | | |
| # Septic Permits | 77 | 95 | 101 | 138 | 108 | 167 | 71 | 212 | 177 | 127 | 1,273 |
| # Septic Failures | 58 | 46 | 20 | 71 | 79 | 64 | 25 | 104 | 47 | 44 | 558 |
| Water Program | | | | | | | | | | | |
| # Well Permits | 86 | 106 | 111 | 125 | 155 | 168 | 103 | 215 | 151 | 141 | 1,361 |
| # Well Inspections | 30 | 63 | 68 | 42 | 49 | 32 | 19 | 27 | 24 | 23 | 377 |
| Food Service | | | | | | | | | | | |
| # Food Operation Insp | 104 | 110 | 90 | 209 | 255 | 273 | 83 | 329 | 235 | 304 | 1,992 |
| # Temp Food Booth Insp | 16 | 16 | 50 | 53 | 85 | 120 | 33 | 67 | 39 | 102 | 581 |
| # Reported Food Borne Ill | 1 | 1 | 0 | 3 | 1 | 5 | 1 | 4 | 3 | 9 | 28 |
| Immunizations | | | | | | | | | | | |
| # Vaccines Given | 1,486 | 1,084 | 364 | 2,058 | 3,358 | 2,586 | 1,091 | 1,598 | 1,830 | 2,265 | 17,720 |
| # Influenza Shots Given | 778 | 1,146 | 615 | 1,144 | 1,621 | 1,569 | 982 | 764 | 904 | 1,625 | 11,148 |
| # H1N1 Shots Given | 2,032 | 1,809 | 1,041 | 3,442 | 3,918 | 4,650 | 1,882 | 3,328 | 4,547 | 3,587 | 30,236 |
| Communicable Disease | | | | | | | | | | | |
| # TB Skin Tests Given | 106 | 134 | 52 | 246 | 377 | 265 | 171 | 483 | 201 | 310 | 2,345 |
| # TB Patients on Prophylaxis | 5 | 0 | 0 | 12 | 1 | 3 | 1 | 4 | 45 | 1 | 72 |
| # Comm. Disease Services | 559 | 150 | 107 | 393 | 241 | 483 | 305 | 255 | 173 | 633 | 3,299 |
| STD Services | | | | | | | | | | | |
| # STD Services | 222 | 37 | 37 | 60 | 1 | 208 | 44 | 126 | 6 | 60 | 801 |
| # HIV Tests | 5 | 7 | 0 | 5 | 12 | 15 | 19 | 22 | 3 | 15 | 103 |
| Hearing Screenings | | | | | | | | | | | |
| # Preschool Hearing Screen | 179 | 346 | 84 | 173 | 380 | 256 | 263 | 331 | 454 | 454 | 2,920 |
| # School Hearing Screenings | 251 | 339 | 167 | 780 | 1,133 | 1,355 | 376 | 1,941 | 870 | 901 | 8,113 |
| Vision Screenings | | | | | | | | | | | |
| # Preschool Vision Screenings | 110 | 215 | 131 | 137 | 396 | 304 | 195 | 510 | 415 | 382 | 2,795 |
| # School Vision Screenings | 673 | 841 | 280 | 1,256 | 1,657 | 2,092 | 866 | 3,972 | 1,655 | 2,126 | 15,418 |

SERVICES BY COUNTY

HEALTH CARE ACCESS

Public health provides many services which improve access to care for specific target populations, links individuals to needed services, and provides a community safety net for at risk populations.

| | CRAWFORD | KALKASKA | LAKE | MANISTEE | MASON | MECOSTA | MISSAUKEE | NEWAYGO | OCEANA | WEXFORD | TOTALS |
|---|----------|----------|---------|----------|---------|---------|-----------|----------|---------|---------|----------|
| Maternal Infant Health Program (MIHP) | | | | | | | | | | | |
| # Maternal Clients | 56 | 63 | 43 | 64 | 80 | 130 | 66 | 117 | 127 | 128 | 874 |
| # Maternal Visits | 428 | 420 | 241 | 364 | 491 | 783 | 405 | 813 | 675 | 1,004 | 5,624 |
| # Infant Clients | 58 | 46 | 21 | 54 | 63 | 108 | 57 | 107 | 62 | 141 | 717 |
| # Infant Visits | 710 | 539 | 390 | 563 | 611 | 1,206 | 734 | 1,141 | 465 | 1,530 | 7,889 |
| Children's Special Health Care Services | | | | | | | | | | | |
| # of Children | 57 | 82 | 29 | 95 | 105 | 139 | 75 | 188 | 93 | 198 | 1,061 |
| # of Services | 236 | 272 | 27 | 107 | 101 | 299 | 111 | 356 | 112 | 1,291 | 2,912 |
| Women Infants and Children (WIC) | | | | | | | | | | | |
| Avg. Monthly Enroll | 412 | 626 | 348 | 611 | 1,044 | 1,368 | 320 | 2,230 | 1,359 | 1,626 | 9,944 |
| % Return Rate | 92% | 93% | 90% | 90% | 92% | 91% | 90% | 92% | 92% | 91% | 91% |
| Breast Feeding Initiation % | 68% | 75% | 54% | 69% | 62% | 61% | 70% | 68% | 68% | 73% | 68% |
| # Project Fresh Books Distributed | 103 | 165 | 85 | 140 | 246 | 263 | 58 | 960 | 268 | 327 | 2,615 |
| Value of Redeemed Books | \$2,060 | \$3,300 | \$1,700 | \$2,800 | \$4,920 | \$5,260 | \$1,160 | \$19,200 | \$5,360 | \$6,540 | \$52,300 |
| Child Lead Screening | 71 | 86 | 62 | 69 | 114 | 167 | 51 | 382 | 200 | 266 | 1,468 |
| Family Planning Services | | | | | | | | | | | |
| # of Clients Served | 198 | 143 | 47 | 325 | 606 | 136 | 204 | 522 | 370 | 598 | 3,149 |
| WiseWoman Program | | | | | | | | | | | |
| # Screened | 90 | 69 | 94 | 149 | 200 | 148 | 87 | 244 | 146 | 262 | 1,489 |
| # Referred | 57 | 31 | 67 | 94 | 141 | 90 | 53 | 151 | 78 | 155 | 917 |
| # Counseled | 265 | 185 | 258 | 472 | 464 | 422 | 291 | 767 | 426 | 859 | 4,409 |
| Breast and Cervical Cancer Control Program (BCCCP) | | | | | | | | | | | |
| # Women Screened | 116 | 93 | 121 | 185 | 228 | 185 | 107 | 314 | 188 | 314 | 1,851 |
| # Breast cancer found | 0 | 0 | 0 | 2 | 3 | 3 | 2 | 1 | 6 | 6 | 23 |
| # Cervical cancer found | 1 | 1 | 3 | 0 | 2 | 1 | 2 | 1 | 1 | 4 | 16 |
| Colorectal Cancer Screening Program | | | | | | | | | | | |
| # Screened | 34 | 11 | 31 | 55 | 49 | 50 | 23 | 62 | 52 | 60 | 427 |
| # High risk referrals | 1 | 0 | 2 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 7 |
| # Pre-cancerous polyps | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |

HEALTH DEPARTMENT SERVICES BY COUNTY

| Health Care Access, continued | CRAWFORD | KALKASKA | LAKE | MANISTEE | MASON | MECOSTA | MISSAUKEE | NEWAYGO | OCEANA | WEXFORD | TOTALS |
|--|----------|----------|------|----------|-------|---------|-----------|---------|--------|---------|--------|
| Dental Health | | | | | | | | | | | |
| # Clinic clients | 599 | 1,311 | 208 | 1,606 | 1,599 | 1,670 | 811 | 338 | 2,510 | 2,845 | 13,497 |
| Tencon Program | | | | | | | | | | | |
| Health Plan Enrollments | 251 | 249 | 205 | 291 | 341 | 349 | 202 | 489 | 379 | 421 | 3,177 |
| Prescription Drug Coverage Enrollments | 61 | 82 | 48 | 95 | 132 | 75 | 38 | 152 | 107 | 126 | 916 |
| Medicaid Application Assistance | | | | | | | | | | | |
| # Served | 140 | 103 | 11 | 58 | 280 | 72 | 208 | 53 | 421 | 511 | 1,857 |

ENVIRONMENTAL HEALTH

Environmental Health Services operate under DHD#10's Sanitary Code and are administered in each county by Environmental Health staff.

| ENVIRONMENTAL HEALTH | CRAWFORD | KALKASKA | LAKE | MANISTEE | MASON | MECOSTA | MISSAUKEE | NEWAYGO | OCEANA | WEXFORD | DHD#10 Totals |
|---------------------------|----------|----------|------|----------|-------|---------|-----------|---------|--------|---------|---------------|
| Radon Kits Distributed | 80 | 58 | 1 | 37 | 48 | 57 | 55 | 74 | 47 | 268 | 725 |
| Soil Evaluations | 0 | 3 | 1 | 3 | 3 | 14 | 1 | 7 | 12 | 10 | 54 |
| Mortgage Evaluations | 2 | 3 | 0 | 44 | 4 | 17 | 2 | 96 | 44 | 5 | 217 |
| Building Permit Approvals | 5 | 98 | 29 | 16 | 26 | 33 | 15 | 32 | 74 | 19 | 347 |
| Complaints (All) | 16 | 24 | 8 | 13 | 49 | 46 | 8 | 64 | 38 | 45 | 311 |
| Child Care Inspections | 17 | 23 | 12 | 25 | 25 | 36 | 16 | 48 | 28 | 44 | 274 |
| Campground Inspections | 31 | 9 | 30 | 27 | 32 | 25 | 12 | 30 | 33 | 50 | 279 |
| Swimming Pool Inspections | 6 | 9 | 3 | 24 | 58 | 18 | 0 | 8 | 36 | 17 | 179 |
| Type II Sanitary Surveys | 15 | 8 | 12 | 37 | 52 | 22 | 10 | 38 | 27 | 18 | 239 |
| Tanning Inspections | 4 | 2 | 3 | 5 | 8 | 5 | 2 | 12 | 4 | 12 | 51 |
| Animal bites/exposure | 58 | 58 | 32 | 85 | 100 | 107 | 41 | 80 | 88 | 71 | 720 |

COMMUNITY HEALTH INDICATORS

| | CRAWFORD | KALKASKA | LAKE | MANISTEE | MASON | MECOSTA | MISSAUKEE | NEWAYGO | OCEANA | WEXFORD | MICHIGAN |
|---|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|------------------|
| Total Population | 14,203 | 16,891 | 10,926 | 24,439 | 28,637 | 41,775 | 14,838 | 48,686 | 27,577 | 31,533 | 9,969,727 |
| Number of Births | 133 | 196 | 106 | 226 | 329 | 439 | 157 | 601 | 393 | 454 | 121,231 |
| Birth Rate (per 1000) | 9.2 | 11.5 | 9.6 | 9.2 | 11.4 | 10.6 | 10.5 | 12.3 | 14.2 | 14.3 | 12.1 |
| Number of Deaths | 152 | 154 | 141 | 291 | 321 | 322 | 146 | 446 | 282 | 304 | 88,272 |
| Death Rate (per 100,000) | 9.9 | 9.3 | 12.5 | 10.7 | 10.5 | 8.0 | 9.1 | 8.3 | 8.2 | 9.4 | 8.5 |
| Cancer Mortality Rate (per 100,000) | 199.9 | 213.9 | 225.3 | 197.2 | 161.8 | 179.7 | 167.4 | 193.4 | 168.1 | 168.9 | 187.7 |
| Heart Disease Mortality Rate (per 100,000) | 188.1 | 196.6 | 206.0 | 160.2 | 211.1 | 188.4 | 238.3 | 200.8 | 237.8 | 201.4 | 223.2 |
| Stroke Mortality Rate (per 100,000) | 47.6 | 55.3 | 57.7 | 42.5 | 40.3 | 56.6 | 69.3 | 35.5 | 36.7 | 39.3 | 43.2 |
| Median Household Income | \$37,396 | \$40,618 | \$31,658 | \$38,076 | \$40,858 | \$37,888 | \$40,037 | \$44,157 | \$40,872 | \$41,264 | \$48,606 |
| % Poverty; all ages | 14.4% | 15.0% | 20.1% | 13.6% | 15.7% | 20.9% | 14.6% | 16.2% | 18.8% | 15.2% | 14.4% |
| % Poverty; under 18 | 26.1% | 25.4% | 36.0% | 21.2% | 23.9% | 29.0% | 22.8% | 23.0% | 29.7% | 23.9% | 19.3% |
| % Poverty; age 5-17 | 23.1% | 22.3% | 33.9% | 18.9% | 22.6% | 23.9% | 20.8% | 19.2% | 27.5% | 22.6% | 17.8% |
| % Medicaid Covered Births | 61.3% | 63.7% | 59.3% | 50.4% | 54.1% | 45.7% | 56.1% | 50.1% | 61.3% | 53.7% | 41.3% |
| Teen Pregnancy Rate (per 1,000) | 76.7 | 71.1 | 66.9 | 43.4 | 52.0 | 30.9 | 52.5 | 55.6 | 82.2 | 76.7 | 54.1 |
| % Women who smoked while pregnant | 48.1% | 37.2% | 39.6% | 34.5% | 29.5% | 31.4% | 28.0% | 26.1% | 26.2% | 34.4% | 18.1% |

THANK YOU TO OUR COMMUNITY SUPPORT PARTNERS

0-5 Parents as Teachers Grant, Newaygo County
Cadillac Area Community Foundation
Cadillac Area Community Foundation Youth Advisory Committee
Cadillac Family Physicians
Cadillac Rotary
Care Source Foundation
Early On Program: Mason, Lake, Manistee, Crawford, Newaygo & Oceana Counties
Fremont Area Community Foundation
General Mills
Great Lakes People Fund
Great Parents/Great Start, Manistee County
Great Parents/Great Start, Wexford County
Great Start Grant, Mecosta County
Home Depot Grant
Ice Mountain
Lake County Children's Trust Fund
Lake County Community Foundation
Manistee County Community Foundation
Mason County Community Foundation
MC Sports
Mecosta County Children's Council
Mecosta County Community Foundation
Mecosta County Medical Center
Mercy Hospital
Missaukee United Fund
Oceana County Community Foundation
Oceana Intermediate School District
The Gerber Foundation
Three Generations Circle of Women Givers
United Way of Northwest Michigan
United Way of the Lakeshore

DHD #10 OFFICE DIRECTORY

Crawford County
202 Meadows Dr.
Grayling, MI 49738
(989) 348-7800

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

Lake County
5681 S. M-37
Baldwin, MI 49304
(231) 745-4663

Manistee County
385 Third St.
Manistee, MI 49660
(231) 723-3595

Mason County
916 Diana St.
Ludington, MI 49431
(231) 845-7381

Mecosta County
14485 Northland Dr.
Big Rapids, MI 49307
(231) 592-0130

Missaukee County
6180 W. Sanborn, Ste #1
Lake City, MI 49651
(231) 839-7167

Newaygo County
1049 Newell St.
White Cloud, MI 49349
(231) 689-7300

Oceana County
3986 N. Oceana Dr.
Hart, MI 49420
(231) 873-2193

Wexford County
521 Cobbs St.
Cadillac, MI 49601
(231) 775-9942



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