



BAY COUNTY Health Department

“Creating A Healthy Environment For The Community”

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ANNUAL REPORT JANUARY – DECEMBER 2006

Public Health Services

**Health Promotion
Health Protection
Disease Prevention**

**Developed by Dominic Smith
Community Health Educator**

**A Message from the Health Officer
Barbara MacGregor, RN, BSN**

I am pleased to present to you the Bay County Health Department's 2006 Annual Report. The purpose of this report is to summarize the activities and accomplishments of our department in 2006 and to convey the breadth of activities performed every day that truly make a difference in our community.

Each day, the employees of Bay County Health Department and our many partners, are working to protect you from health threats, to educate you and your neighbors about health issues, and to provide healthy solutions in order to advance our community's health. Many of the activities performed by our department are accomplished behind the scene with the primary focus on preventing disease or conditions that may cause disease, disability or injury. Because of this fact, many people do not recognize the importance of public health in their daily lives.

Every day, your health department is actively educating your community regarding health issues which allow you to make healthy decisions, such as getting immunized against vaccine-preventable diseases (hepatitis, polio, meningitis, etc.), eating healthy or simply washing your hands to keep from spreading disease. This information is provided in many ways: through public service announcements, in the media, through our health department web site and during programs presented on Bay 3TV, in schools, homes, and clinics.

Daily, your health department and its partners provide care to prevent infectious and chronic diseases and help you maintain your health. We ensure the prevention of illness by promoting immunization, adequate sanitation, and good nutrition. We provide flu shots to the community and offer childhood immunizations to assure diseases that killed millions in the past are kept in check. Your health department ensures the safety of your drinking water, as well as the food you eat in restaurants, at festivals, at concessions, and from food vending machines. We help mothers obtain prenatal care that give their babies a healthy start and provides vital support services to young mothers and children to help them grow and learn. We also diagnose and investigate health problems and health hazards in your community to keep you safe.

Your health department is working daily to develop new policies and standards to address existing and emerging challenges to the community's health, while enforcing laws intended to keep you safe. We are constantly working through research and staff training to maintain a unique expertise and to deliver up-to-date health programs to our citizens.

The mission of the Bay County Health Department is to improve the community's quality of life by the promotion of optimum health and through the prevention and control of disease. I hope this report provides insight of the dedicated and tireless work of the staff and partners of Bay County Health Department, in fulfilling this mission.

Yours in good health,

Barbara MacGregor, RN, BSN

GOALS:

The goal of public health administration is to establish and maintain a community focus on public health through the development of an efficiently organized, adequately staffed and effective Health Department. The Health Department was created to meet the needs and the expectations of all citizens in Bay County. Many of the services are free of charge while others are based on income, eligibility criteria, and fee for service.

**Tom Hickner
County Executive**

**Patrick Beson
Human Services Chairperson
Board of Commissioners**

ENVIRONMENTAL HEALTH DIVISION

Joel, Strasz, Public Health Services Manager

The Environmental Health Division of the Bay County Health Department (BCHD) protects the public health through programs established by the Public Health Code and local Sanitary Ordinances. These programs focus on the prevention of disease and exposure to pollutants via education, inspection of facilities and enforcement of the referenced laws. Most of the prevention and abatement of environmental threats are accomplished through education of the clients and the general population.

The Environmental Health Division of the Health Department consists of five professional environmental health staff referred to as "Sanitarians". The Sanitarians are registered by the State of Michigan to provide the services of the Division.

PRIVATE/PUBLIC WATER

Well permits are issued for homes and businesses which are not served by municipal water systems. The Division conducts field evaluations, reviews construction plans, and consults with homeowners and well drillers on proper well installations. Sanitarians issue permits for construction of new and replacement wells and assist persons who have concerns or problems with water quality.

Private & Type III Public Ground Water Supply Program

Number of Well Permits Issued	72
Number of Pre Drilling Site Reviews Completed	72
Number of Final Inspections of Newly Completed Water Well Systems	36
Number of Abandoned Wells Plugged	23

PRIVATE/SEMI-PUBLIC ON-SITE SEWAGE

On-site sewage disposal permits are issued for homes and businesses which are not served by municipal sewer systems. Sanitarians conduct field evaluations to determine the suitability of conditions for on-site disposal of sewage. The Division reviews construction plans, consults with owners and engineers on proper design and construction of on-site systems. The Division issues permits for the construction of new and replacement sewage system and conducts final inspections to assure that systems are installed according to required rules and regulations.

On-Site Sewage Disposal Program

Number of Parcels Evaluated	208
Number of On-Site Sewage Permits Issued	117
Number of Alternative/Engineered Systems Approved	6
Number of Appeals Processed	0
Number of Complaints Investigated	17

FOOD SERVICE

Food establishments and vending locations, which dispense food and drinks to the public, are routinely inspected by the Health Department. Sanitarians consult with food service operators and food service personnel on the safe handling and preparation of food. Education of the food service operator on the proper methods of safe food handling is a vital function of the Division. Sanitarians review and approve proposed new and remodeled food service facilities and approve food service licenses. Sanitarians also investigate instances of possible food poisoning in conjunction with the Michigan Department of Agriculture.

Food Service Inspections and Actions

Fixed Food Establishments	554
Mobile, Vending & STFU	34
Temporary Food Establishments	157
Follow-up Inspections	56
Number of Plans Received for Review	7
Number of Plans Approved	9
Consumer Complaints Investigated	23
Foodborne Illness Outbreaks	0
Administrative Action: office conference, informal conference, formal hearing, civil fines, orders	3

IMMUNIZATIONS

Vaccination Type	Doses Administered
DTaP	473
Td Adult Only	250
HHib-Pedvax	264
Meningococcal Conjugate	400
Hib Hep B	51
Hep B (Pediatric)	162
Hep B (adult)	263
IPV Dose	442
MMR	340
Varicella	231
Pneumococcal Conjugate	125
Hep A (Pediatric)	107
Hep A (Adult)	40
PPD Intradermal	459
DTaP-Hep B-IPV	228
Influenza	1026
Rotavirus	30
TOTAL	4891

The Immunization Division provides immunizations to individuals in the community with an emphasis on the pediatric population.

The Immunization Division provides:

- Daily clinics with evening hours twice a month.
- Seasonal immunizations; flu, pneumococcal, and meningococcal for college students
- Distribution of vaccine to area providers enrolled in the Vaccine for Children Program (VFC)
- Annual site visits to VFC providers to assure vaccine safety and contract compliance
- Oversight and monitoring of immunization levels for children entering school and child care settings.
- Michigan Care Improvement Registry: Area providers are assisted with entry of vaccines into the registry to assure accuracy of immunization records.
- Participation in the Immunization Task Force to bring together key individuals in the community that have a vested interest in assuring children's vaccinations.
- Provider education: A Public Health Nurse provides in-services to area providers to help assure staff is knowledgeable and up-to-date on vaccine information.
- Payment is derived from insurance sources but accommodations are made including a sliding fee scale to match resources of individual persons.

FAMILY PLANNING

The Family Planning Clinic serves men and women of childbearing ages for reproductive health needs. Clients may utilize the clinic for the following types of services: pregnancy testing and referral, sexually transmitted disease testing and treatment, and contraceptive needs. Women desiring a physical exam may obtain a breast exam, pelvic exam, pap smear, and appropriate lab work. All methods of birth control are available as well as abstinence information and pre-conception education. Fees for service are based on a sliding scale according to the client's income and family size. All services are rendered in a confidential and caring manner.

Number of Unduplicated Persons Receiving Services in Family Planning Clinic	2667
Number of Encounters in Family Planning Clinic	3575

LABORATORY

The Laboratory Services Division provides a variety of diagnostic and analytical services to support public health initiatives related to the citizens of Bay County. The Laboratory is licensed by the Michigan Department of Environmental Quality (MDEQ) for water testing, and licensed for clinical analysis by Clinical Laboratory Improvement Amendment.

Number of Clients	4599
Number of Tests	7652

WIC

WIC is a federally funded program to prevent malnutrition in high-risk pregnant, breast-feeding, and non-lactating women, infants and children until age 5. The income eligibility is at or below 185% of poverty with verification of income required. The medical and nutritional risk factors are determined by a Registered Nurse, Registered Dietician, or Nutritionist, and support staff is trained to screen for nutrition-related health problems. WIC coupons purchase over \$1,500,000.00 in food in local grocery stores in the Bay County area. The Health Department clients receive WIC services along with other needed services, such as Immunizations, Maternal and Infant Support Services, and voter registration.

Families are provided a user-friendly “one stop shopping service”. WIC clients are also linked to the Bay County local Farmer’s Market through Project Fresh. This is a collaborative program with MSU Extension and Bay County Health Department. WIC families are introduced to the local market and participate in Nutrition Education class, which teach how to prepare meals using local produce.

Closeout Participation	31889
Initial Participation	31539
Enrollment	37145

EMERGENCY PREPAREDNESS & MANAGEMENT DIVISION

Melissa Maillette, Emergency Preparedness & Management Division Manager

The Bay County Health Department Emergency Preparedness & Management Division (EP&MD) had a very busy and exciting 2006. The Bay County Board of Commissioners approved a county reorganization plan in July proposed by the County Executive. As a part of the reorganization, Animal Control was moved out of the Health Department as a division and Emergency Management was moved into the Health Department, thereby creating the Emergency Preparedness & Management Division.

In addition to several health fairs and stakeholder presentations, there was on-going planning, exercises/drills, and staff training. The EP&MD conducted quarterly high tests of the Michigan Health Alert Network (MIHAN) with an average of 97.25% of personnel confirming alerts. There were also five low test alerts regarding communicable disease case investigations (i.e. Mumps, Chickenpox, and Pertussis) sent to Bay and surrounding counties and/or the entire state with an average of 56% of those alerted confirming the alerts. Nineteen employees and three Deputy Medical Examiners were fit-tested for particulate and full-face respirators. Staff members participated in a regional communications exercise as well as Avian Influenza tabletop exercises conducted at GM Powertrain and in Tuscola County. Five staff members were trained in E-Team. In addition, 35 staff members were trained in FEMA IS 100 and 200 courses.

In August, the Health Department held an all-day Avian Influenza Seminar and Tabletop Exercise for Health Department staff and community stakeholders entitled “Project RoadRunner”. There was great representation from the various school districts, law enforcement (local, state, and FBI), GM Powertrain, Dow Corning, Bay Regional Medical Center, American Red Cross, Central Dispatch, Delta College, MSU Extension, and other Bay County Departments.

In September, BCHD collaborated with the Midland County Department of Public Health and Saginaw County Department of Public Health to host the “Tri-County Avian Influenza Symposium” at Saginaw

Valley State University. The focus of the program was to present information about Avian Influenza and pandemic influenza to government officials, sportsmen, veterinarians, Animal Control staff, and public health staff. The Deputy Pandemic Influenza Coordinator for the Michigan Department of Community Health (MDCH) and the Region 3 Epidemiologist from MDCH were guest speakers. Also in September, the Division staff promoted National Preparedness Month through several means, including, preparedness tips printed on Bay County employees paychecks, provided webcast opportunities, and produced a program on the local cable access channel Bay3TV.

In October, the staff utilized the fall influenza vaccination clinics to test throughput of persons going through the clinic.

Michigan Disease Surveillance System (MDSS) 2006 Reportable Communicable Disease Statistics

FOODBORNE DISEASE GROUP	
Campylobacter	5
Giardiasis	6
Listeriosis	1
Salmonellosis	5
MENINGITIS DISEASE GROUP	
Aseptic Meningitis	11
Bacterial Meningitis	3
OTHER DISEASE GROUP	
Animal Bite	28
Botulism – Infant	1
Coccidioidomycosis	1
Cryptococcosis	1
Guillain-Barre Syndrome	1
Legionellosis	2
Streptococcal Dis. Inv. Group A	1
STD DISEASE GROUP	
Chlamydia	211
Gonorrhea	23
Syphilis	1
VACCINE PREVENTABLE DISEASE GROUP	
Varicella	29
Mumps	8
Pertussis	12
VIRAL HEPATITIS	
Hepatitis B (Acute)	1
Hepatitis B (Chronic)	4
Hepatitis C (Acute)	2
Hepatitis C (Chronic)	60

Physicians, clinical laboratories, primary and secondary schools, childcare centers, and camps are required to report the occurrence or suspected occurrence of any disease, condition or infection as identified in the Michigan Communicable Disease Rules. In addition, all other health care providers are authorized to report to local health authorities. Together, they play a key role in state and local efforts to control communicable diseases. The public health system depends upon these reports of diseases to monitor the health of the community and to provide the basis for preventive action.

BAY COUNTY AUTOPSY STATISTICS

Dr. Howard Hurt, Medical Examiner / Director

****A total of 68 Autopsies were ordered by Dr. Howard Hurt, Chief Medical Examiner****

AGES

AGE	DEATHS	PERCENT
<1	2	3%
1-5	0	0%
6-16	2	3%
17-25	5	7%
26-44	20	29%
45-64	29	43%
65+	10	15%
TOTAL	68	100%

MANNER OF DEATH

CAUSES	DEATH	PERCENT
NATURAL	33	49%
ACCIDENT	7	10%
SUICIDE	9	13%
HOMICIDE	2	3%
INDETERMINATE	17	25%
TOTAL	68	100%

INDETERMINATE

DRUGS	15	94%
HYPERTROPHIC PYLORIC STENOSIS	1	6%

HOMICIDE

BLUNT FORCE	1	100%
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NATURAL CAUSES

CAUSES	DEATHS	PERCENT
HEART	22	67%
CANCER	2	6%
CIRRHOISIS	3	9%
PULMONARY EMBOLISM	3	9%
COPD / ASTHMA	2	6%
RUPURED CEREBRAL ANEURYSM	1	3%
TOTAL	33	100%

DRUGS

TYPE	DEATHS	PERCENT
ALCOHOL	9	28%
METHADONE	8	25%
COCAINE	3	10%
FENTANYL	1	3%
AMANTADINE	1	3%
HYDROCODONE	1	3%
MORPHINE	4	13%
OXYCODONE	2	6%
THC	2	6%
VALIUM	1	3%
TOTAL	32	100%

****Many tested for more than one drug and also prescription drugs**

ACCIDENT

CAUSES	DEATHS	PERCENT
VEHICLE	2	29%
PEDESTRIAN / VEHICLE	2	29%
DROWNING	1	14%
SMOKE INHALATION	1	14%
POSITIONAL ASPHYXIA	1	14%
TOTAL	7	100%

MATERNAL & CHILD HEALTH SERVICES

Marilyn Laurus, Maternal & Child Services Manager

Hearing and Vision program screened 556 more children for hearing and vision in 2006 than in 2005, a 3.6% increase.

Children's Special Health Care Services had an average enrollment of 258.

The number of *lead tests* on children between the ages of 1 and 5 years increased 76% over the number tested in 2005, for a total of 274. That increase is due to staff's diligence in promoting lead testing and collaboration between WIC, EPSDT and our laboratory staff.

Enrollment in the *Maternal & Infant Health Program* increased 18% in 2006. Newly enrolled clients in 2006 totaled 325 as compared to our 2005 enrollment of 276.

The number of adult *Medicaid* enrollees for 2006 increased by 59% over 2005, for a total of 43.

The number of *STD Clinic* clients tested/encountered was 632.

The number of clients tested for *HIV* in 2006 was 466, an increase of over 400% of 2005's total.

Successful Futures is a program offered free of charge to all pregnant women and parents of children up to six years old, residing in Bay County and having a number of risk factors deemed to impede normal growth and development. Successful Futures report that 1321 families received some services for 2006; including those who received referrals and requested their informational newsletter.

A *Bike Rodeo* event was held at the local Boys & Girls Club where 100 bike helmets were fitted and distributed to youths, ages 4-16 years.

The **Early On Program** received 130 referrals for families for the 2006-2007 school year, and provided direct services to 60 families.

Through the Parent Involvement and Education grant, a Public Health Nurse was hired to administer a preventative health program of early, periodic screenings for infants and children through age 5 years, using the **Early Periodic Screening Diagnosis and Treatment (E.P.S.D.T.)** model. In conjunction with periodic screening, this nurse tested children for lead, administered immunizations, and made referrals to Early On, MIHP, Successful Futures, WIC, and area physicians for children attending EPSDT clinics. For children whose Blood Lead Levels (BLL) were at or above 10 micrograms per deciliter of blood, this nurse referred those children to their physicians for a confirmatory lead test. For those whose confirmatory tests resulted in same or higher, those families were contacted with follow-up lead information. For those children whose BLL exceeded 20 micrograms per deciliter, a home visit was made with a nurse and the Elevated Blood Lead (EBL) Investigator/Risk Assessor.

BAY 3 TV

Bay County Health Department uses a variety of resources and tools to educate the public on services and programs available at the Health Department. A major resource is the local Bay 3 TV governmental/educational cable access station which is broadcast via Charter Communications Cable System. Bay 3 TV serves the city, county, schools and a viewing audience of approximately 38,000 people. Bay 3 TV operates 24 hours and 7 days a week, which also includes an active bulletin board system. The Health Department has the capability to instantly provide information to the public if needed and conduct studio or remote location tapings for later broadcast. Each division within the Health Department is responsible for providing educational / informational tapings and bulletin materials on a variety of topics throughout the year.

COMMUNITY COLLABORATIVES

This list represents only a small number of organizations that work together to support the human services needs of Bay County residents.

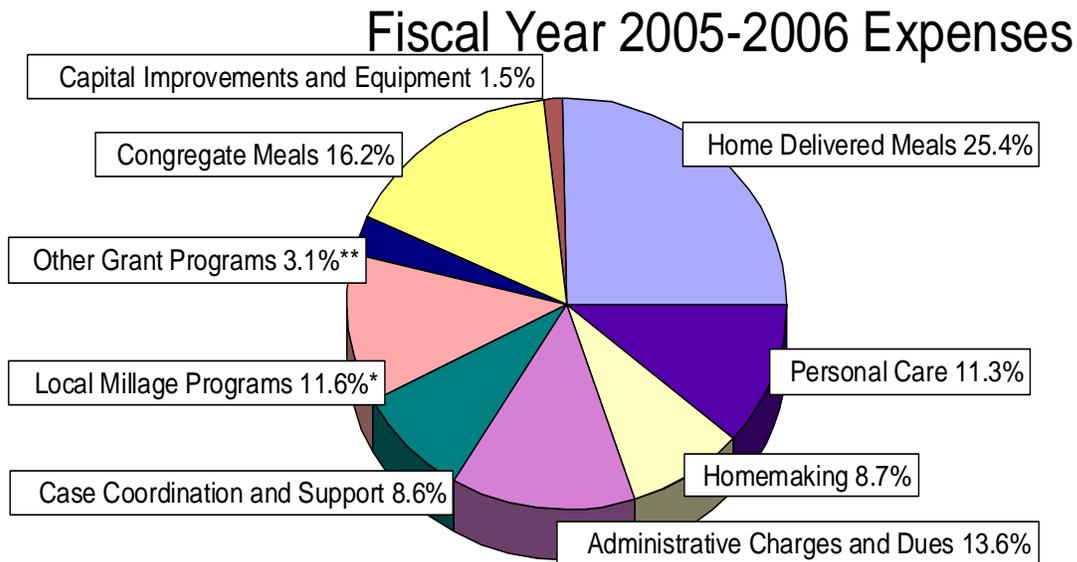
- Children's Trust Fund
- Tri-County Food Safety Task Force
- Bay Health Plan
- Immunization Coalition
- Bay Regional Medical Center
- NEMSCA Head Start
- Bay-Arenac Early Childhood Advisory Council
- Bay Area Human Services Coordinating Council
- Bay County Emergency Services
- Early On
- 2-1-1
- Helen M. Nickless Volunteer Clinic
- United Way of Bay County
- American Red Cross
- Bay Area Breastfeeding Coalition
- Department of Health & Human Services
- Michigan State University Extension
- Boys & Girls Club

DIVISION ON AGING (DOA)
Services Provided Fiscal Year 2005 – 2006
(October 1, 2005 through September 30, 2006)
Rebecca Reimann, Director

In addition to the listed programs, the following programs are provided to Bay County senior citizens, financed by the Bay County Senior Millage and client fees; Handyman, Prescription Discount Card, Volunteer Program, Senior Tax Clinic, Wonderful Times, Information and Referral, Bay County Senior Olympics, & Special Events

Programs	Clients Served	Service Units
Case Coordination	1,244	6,583.80 Hours
Homemaking	303	10,734.75 Hours
In-Home Respite Care	23	1,546.35 Hours
Caregiver Training	104	739.8 Hours
Congregate Nutrition	409	49,156 Meals
Exercise Program	42	607.5 Hours
Home Delivered Meals	1,031	143,887 Meals
Personal Care	108	3,967.65 Hours

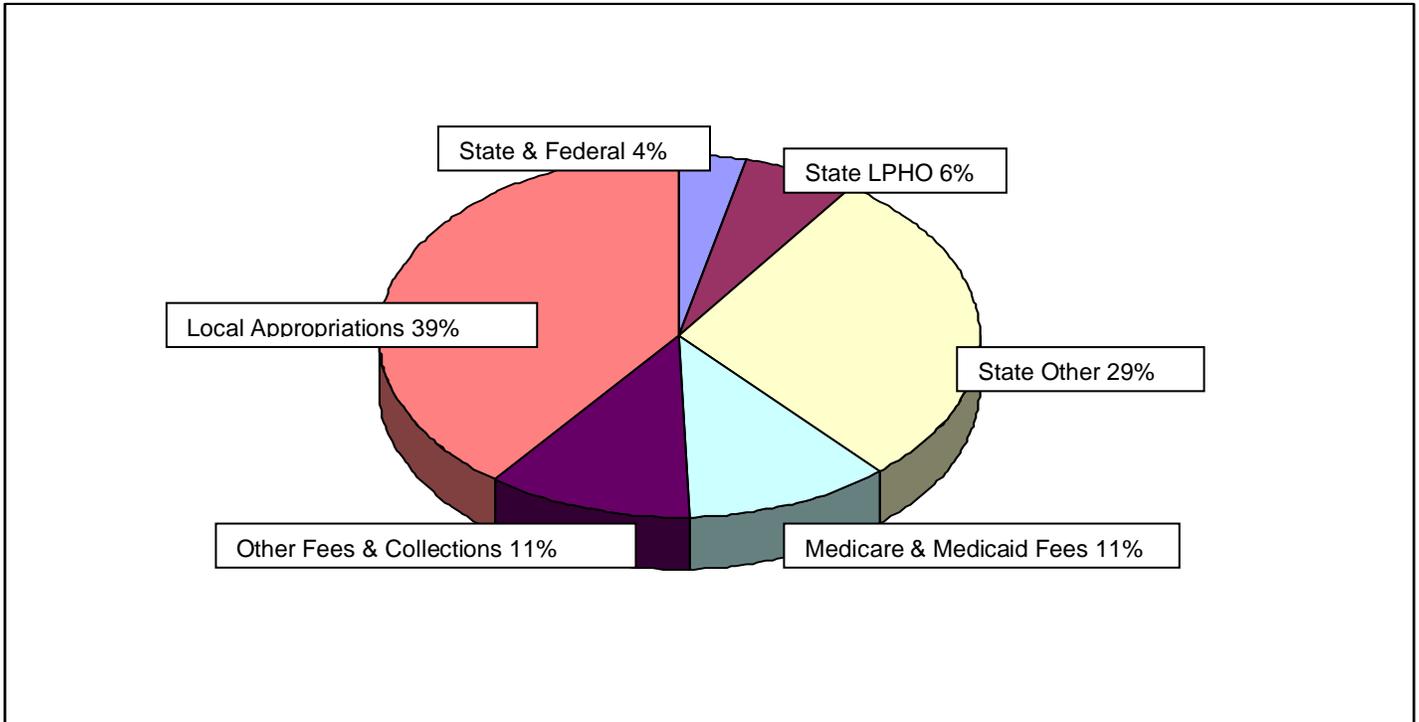
DOA is a division within the Bay County Health Department



Local Millage Programs include:
 Wonderful Times Newsletter, Volunteer Program, Handyman Service, Special Events, Senior Olympics, and Information and Referral

Other Grant Program include:
 Caregiver Education, Respite Care, Exercise Program, and Senior Prescription Assistance Program (SPAP)

BAY COUNTY HEALTH DEPARTMENT FUNDING SOURCES
FYE 9/30/2006
Budgeted



State and Federal \$114,025.00
State Local Public Health Operating (LPHO) \$203,785.00
State Other \$930,724.00
Medicare and Medicaid Fees \$351,961.00
Other Fees and Collections \$369,261.00
Local Appropriations \$1,275,631.00
Other Sources \$4,246.00
****Total Revenues \$3,249,633.00**