

2008 Annual Report

BAY COUNTY HEALTH DEPARTMENT

"Creating A Healthy Environment For The Community"

INSIDE THIS REPORT:

Environmental Health

Immunization

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Laboratory

WIC

Emergency Preparedness &
Management

Community Outreach

Communicable Disease

Bay Health Plan

Maternal & Child Health Services

Hearing & Vision

Medical Examiner

Division on Aging

Expenditures & Revenues



PUBLIC HEALTH SERVICES

Health Promotion
Health Protection
Disease Prevention

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The core functions of Public Health are: Assessment, Policy Development and Assurance. The Bay County Health Department, as part of its mission to protect and improve the general health of people in the community, must evaluate the current level of health and threats to health in the community (assessment). This report highlights public health services indicators for the year 2008. If there is a particular area of interest that is not listed in this report, please feel free to contact our office.

Developed by Dominic Smith
Community Health Educator



BAY COUNTY MISSION STATEMENT

Bay County will provide efficient, customer and taxpayer-focused, public services that improve the quality of life for Bay County residents.

BAY COUNTY VISION STATEMENT

The vision of Bay County Government is to provide a continuously improving quality of life in our community through leadership and services.

BAY COUNTY HEALTH DEPARTMENT MISSION STATEMENT

The mission of the Bay County Health Department is to improve the community's quality of life by the promotion of optimum health through the prevention and control of disease.

GOALS

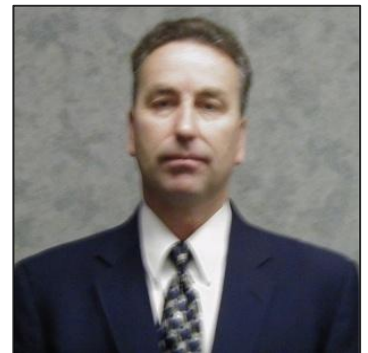
The goal of public health administration is to establish and maintain a community focus on public health through the development of an efficiently organized, adequately staffed and effective Health Department.

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.

No participant requesting assistance from the Bay County Health Department, will be excluded from participation, denied the benefits of, or be otherwise subject to discrimination under these programs, on the basis of race, creed, age, color, national origin or ancestry, religion, sex, marital status or disability.



Tom Hickner
County Executive



Patrick Beson
Chairman of the Board
Board of Commissioners

"The County Executive has influence over all county departments except those headed by other elected officials. It is our mission to provide efficient, customer and taxpayer-focused public services that improve the quality of life for our residents. As you can see from this Annual Report, the Bay County Health Department has succeeded in responding to that challenge." – Tom Hickner

To the Citizens of Bay County:

*"Once again the Bay County Health Department lives up to their reputation as one of the best Health Departments in the State of Michigan. The 2008 Annual Report bears this out."
"The Health Department Health Officer and dedicated staff continue to provide "service with a smile" with their main goal being keeping the residents of Bay County healthy and informed of programs and services available to them. All of this is done with limited funding. Kudos to the Bay County Health Department for another year of excellent services to our community." - Pat Beson*



Public Health
Prevent. Promote. Protect.

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

To the Bay County Executive, Board of Commissioners, and Citizens of Bay County:



I am pleased to present you with the 2008 Bay County Department of Community Health Annual Report. This report highlights the significant accomplishments and program activities that have occurred over the past year.

As both taxpayers and consumers, all Bay County residents are affected by the good work Health Department staff perform every day. Our staff work to ensure your drinking water is safe, sewage is contained, restaurants serve food that is safe and untainted, children are vaccinated against disease, communicable diseases are prevented and outbreaks investigated, health care emergency response plans are in place for natural and man-made disasters, your beaches and public swimming pools are safe, and women and children receive needed health and nutrition services.

Throughout the year, the Health Department collaborated with community, state and federal partners to provide immunizations, TB testing, flu clinics, lead screenings, removal of household hazardous wastes including electronic and medication wastes, emergency drills, investigation of communicable disease outbreaks, conducted research on Saginaw Bay water quality, developed strategies to carry out a sanitary survey of the Kawkawlin River to begin in 2009, and formed a coalition to plan for a healthier community in northern Bay County.

I hope you will take a moment to review our Annual Report, as it highlights the many accomplishments and services provided by our dedicated and talented staff. We thank our County Executive and Board of Commissioners for their ongoing leadership and support, and look forward to continuing to work with all of our community partners in innovative ways, so all residents can lead healthier and safer lives.

Yours in good health,

A handwritten signature in black ink that reads "Barbara M. MacGregor".

Barbara M. MacGregor
Health Officer

Profile of Bay County, 2007

Population: 107,517

Male: 52,331
Female: 55,186
Under 18 Years: 23,937
18-44 Years: 36,191
45-64 Years: 30,825
65 Years & Older: 16,564

Race:

White: 104,025
Black: 2,100
Native American: 754
Asian: 638
Hispanic: 4,392

Births: 1,246
Deaths: 1,134
Infant: 8

Leading Causes of Death:

Heart Disease: 336
Cancer: 277
Stroke: 44
Chronic Lower Respiratory Disease: 86
Unintentional Injuries: 33
Influenza / Pneumonia: 23
Diabetes Mellitus: 32
Alzheimer's Disease: 37
Kidney Disease: 22
Accidents: 18 (2008 Data)
Suicides: 12 (2008 Data)
Homicides: 3 (2008 Data)



ENVIRONMENTAL HEALTH DIVISION

The Environmental Division of the Bay County Health Department (BCHD) protects the public's health through programs established by the Michigan 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. The majority of prevention and abatement of environmental threats are accomplished through education.

The Environmental Health Division of the Health Department consists of six professional environmental health staff. There are five Sanitarians and one Secretary. The Sanitarians are registered by the State of Michigan to provide the services of the Division.

FOOD SERVICE PROGRAM

Food establishments and vending locations, which dispense foods 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. In conjunction with the Michigan Department of Agriculture, Sanitarians work closely with the Health Department's Communicable Disease staff to investigate instances of possible food poisoning.

Food Service Inspections and Actions Data

| <u>PROGRAM</u> | <u>2006</u> | <u>2007</u> | <u>2008</u> |
|--|--------------------|--------------------|--------------------|
| Fixed Food Establishment Inspections | 554 | 631 | 605 |
| Mobile, Vending & STFU, Temporary Food Establishment Inspections | 191 | 146 | 96 |
| Follow-up Inspections | 56 | 94 | 73 |
| Number of Plans Received for Review | 7 | 6 | 15 |
| Number of Plans Approved | 9 | 9 | 17 |
| Consumer Complaints Investigated | 23 | 35 | 33 |
| Foodborne Illness Complaints Investigated | 14 | 12 | 5 |
| Foodborne Illness Outbreaks | 0 | 0 | 0 |
| Administrative Action (office conference, informal conference, formal hearing, civil fines, orders) | 3 | 9 | 5 |

PRIVATE/PUBLIC WATER PROGRAM

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 assists persons who have concerns or problems with water quality.



Private & Type III Public Ground Water Supply Program Data

| <u>PROGRAM</u> | <u>2006</u> | <u>2007</u> | <u>2008</u> |
|---|-------------|-------------|-------------|
| Number of Well Permits Issued | 72 | 79 | 81 |
| Number of Pre Drilling Site Reviews Completed | 90 | 71 | 64 |
| Number of Final Inspections of Newly Completed Water Well Systems | 36 | 58 | 57 |
| Number of Abandoned Wells Plugged | 23 | 19 | 36 |
| Number of Facility Swimming Pools/Spas Inspections Completes | 48 | 46 | 45 |

PRIVATE/SEMI-PUBLIC ON-SITE SEWAGE PROGRAM

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 Data

| <u>PROGRAMS</u> | <u>2006</u> | <u>2007</u> | <u>2008</u> |
|---|-------------|-------------|-------------|
| Number of Parcels Evaluated | 208 | 286 | 173 |
| Number of On-Site Sewage Permits Issued | 117 | 124 | 78 |
| Number of Alternative/Engineered Systems Approved | 6 | 18 | 4 |
| Number of Complaints Investigated | 17 | 19 | 15 |

ENVIRONMENTAL HEALTH DIVISION HIGHLIGHTS AT A GLANCE



In 2008, a total of 172 households participated in the Household Hazardous Waste Collection Program. Approximately 10,339 pounds of material was collected and safely disposed of. The Household Hazardous Waste Collection Program gives Bay County residents a legal and cost-free way to dispose of unwanted household chemicals that cannot be disposed of in the regular trash. The program is sponsored by the Dow Chemical Foundation and Bay County Health Department. A variety of items are accepted during collection, such as automotive products, cleaning products, garden and lawn products, paint products, personal and health care products.

This year marked the beginning of a year-long public education campaign for Bay County's adoption of a Phosphorus Ban Ordinance. This ordinance requires that no phosphorus fertilizers be used on residential properties when soil levels for lawns are adequate.

The Bay County Health Department is expected to continue and receive funding for the Household Hazardous Waste Collection Program in 2009.

SERVSAFE FOOD SERVICE SANITATION PROGRAM

The ServSafe Food Service Sanitation Program is a 16-hour ServSafe Essential course offered to all persons in the Food Service Industry. This course is offered through the Bay County Health Department and taught by Registered Sanitarians Daniel Dicks and Barry Hugo. The program provides training in basic sanitation principles: Food Microbiology, Prevention of Food-borne Illness, Safe Food Handling, Personal Hygiene, Construction and Maintenance of Food Service Facilities, Pest Control, and HACCP Principles.

ServSafe Data

| <u>COURSE DATE</u> | <u>NUMBER OF PARTICIPANTS</u> | <u>NUMBER OF PARTICIPANTS WHO TOOK SERVSAFE EXAM</u> | <u>NUMBER OF PARTICIPANTS THAT PASSED SERVSAFE EXAM</u> |
|---------------------------|--------------------------------------|---|--|
| March 13, 2008 | 11 | 11 | 11 |
| May 13, 2008 | 11 | 11 | 10 |
| July 2, 2008 | 18 | 18 | 18 |
| September 8, 2008 | 9 | 9 | 9 |
| December 9, 2008 | 29 | 29 | 28 |



IMMUNIZATION PROGRAM

| <u>VACCINE</u> | <u>DOSES</u> | <u>DOSES</u> |
|-------------------------|---------------------|---------------------|
| | <u>ADMINISTERED</u> | <u>ADMINISTERED</u> |
| | <u>IN 2007</u> | <u>IN 2008</u> |
| DTap | 219 | 260 |
| Td Adult Only | 73 | 29 |
| Tdap | 361 | 250 |
| HHib-Pedvax | 280 | 265 |
| Meningococcal Conjugate | 418 | 233 |
| Hib Hep B | 9 | 6 |
| Hep B (Pediatric) | 89 | 37 |
| Hep B (Adult) | 206 | 141 |
| IPV Dose | 171 | 185 |
| MMR | 179 | 289 |
| Varicella | 281 | 359 |
| Pneumococcal Conjugate | 399 | 400 |
| Hep A (Pediatric) | 148 | 448 |
| Hep A (Adult) | 41 | 81 |
| DTaP-Hep B-IPV | 228 | 240 |
| Influenza | 784 | 763 |
| Rotavirus | 141 | 139 |
| TB Testing | 685 | 413 |
| Zostavax | 141 | 131 |
| HPV 4 | -0- | 301 |
| TOTAL | 4852 | 4969 |



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 Vaccines for Children Program (VFC)
- * Annual site visits to VFC providers to assure vaccine safety and contract compliance
- * Michigan Care Improvement Registry (MCIR): Area providers are assisted with entry of vaccines into the MCIR to assure accuracy of immunization records
- * Oversight and monitoring of immunization levels for children and entry of vaccines into the MCIR 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, and accommodations are made for the uninsured, including a sliding fee scale to match resources of individual persons.

FAMILY PLANNING PROGRAM

The Family Planning Clinic serves men and women of childbearing age 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.

Family Planning Program Data

| <u>CLIENTALE</u> | <u>2006</u> | <u>2007</u> | <u>2008</u> |
|--|--------------------|--------------------|--------------------|
| Number of Unduplicated Persons Receiving Services in Family Planning Clinic | 1404 | 1392 | 1306 |
| Number of Encounters in Family Planning Clinic | 3574 | 3255 | 3097 |
| Females Served | 1404 | 1379 | 1303 |
| Males Served | N/A | 13 | 3 |



Sue Montei, Nurse Practitioner, Eunice Wilson, Division Clerk, Kathy Trepkowski, Nurse

WOMEN'S, INFANTS AND CHILDREN'S (WIC) PROGRAM

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. Health Department clients receive WIC services along with other needed services, such as, Immunizations, Maternal and Infant Support Services, Childhood Lead Screening, 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.



WIC Program Data

| <u>PROGRAM</u> | <u>2006 May - December</u> | <u>2007</u> | <u>2008</u> |
|---|----------------------------|-------------|-------------|
| New Enrollees | 835 | 1087 | 1026 |
| Recertification | 2068 | 3268 | 2939 |
| Reinstate | 392 | 661 | 560 |
| Infant Evaluation | 366 | 620 | 552 |
| High Risk Registered Dietician Assessment | 351 | 387 | 191 |
| Nutrition Education | 478 | 538 | 379 |
| Bulletin Board (Test/Survey) | 441 | 910 | 802 |
| Internet Education | 510 | 753 | 669 |
| Lead Eligible Assessment | 661 | 1308 | 391 |
| Lead Check Done | 126 | 278 | 205 |
| Lead Check Done at Doctor | 415 | 936 | 143 |
| Lead Check Refused | 71 (Aug.-Dec.) | 84 | 43 |

LABORATORY SERVICES

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.

Laboratory Data

| <u>CLIENTALE</u> | <u>2006</u> | <u>2007</u> | <u>2008</u> |
|--------------------------|-------------|-------------|-------------|
| Number of Clients | 4599 | 3804 | 4534 |
| Number of Tests | 7652 | 7107 | 6661 |



EMERGENCY PREPAREDNESS & MANAGEMENT DIVISION



Melissa Maillette (Manager/EPC), Wendy Donnelly (Division Clerk), Dominic Smith (Health Educator), Chris Izworski (Emergency Management Coordinator)

The Bay County Health Department Emergency Preparedness & Management Division (EP&MD) had a very busy 2008 due in part to Bay County being the host of a multi-county, regional full-scale exercise. The train derailment exercise took place on September 24, 2008. In addition to local resources, regional, state and federal resources were called upon for assistance. This was the first full-scale exercise of this magnitude for Bay County, as well as the first regional exercise for the fourteen counties that make up Michigan's Emergency Management and Homeland Security 3rd District. The exercise went very well due to the planning and preparation by the various community agencies and first responders.

Other activities this division implemented included particulate and full-face respirator fit-testing provided to eighteen County employees, two Deputy Medical Examiners, and three Animal Control Officers. The EP&MD staff also participated in monthly/quarterly 800 MHz radio drills with the Region 3 Healthcare Preparedness Network and the Michigan Department of Community Health, Office of Public Health Preparedness.

In March, the BCHD held their annual staff in-service training day. The trainings included Bloodborne Pathogens and Norovirus clean-up procedures, as well as a review of several Health Department and County policies/procedures. In addition, staff received training on Emergency Preparedness topics, including: the Strategic National Stockpile (SNS), Public Health Emergency Preparedness and County Emergency Management, Modular Emergency Medical System (MEMS), BCHD Incident Command Center activation and call-down procedures, exercise requirements, and updated training on the All-Hazards Comprehensive Public Health Response Plan and the Continuity of Operations Plan (COOP). In the afternoon, staff participated in a pandemic influenza tabletop exercise, which provided education regarding their role during an influenza pandemic, as well as an overview of the roles other community partners (i.e. hospital and area physicians) will play in a pandemic outbreak.

COMMUNITY OUTREACH/EDUCATION

Several outreach and community collaborations took place during 2008. Staff attended neighboring local health department drills/exercises within Region 3, and participated in health fairs and community events in Bay County. The Community Health Educator provided Pandemic Influenza, Blood-borne Pathogens, Emergency Preparedness, and Hygiene/Hand-washing presentations to staff, community groups, and schools. In addition, the Health Department utilized a fall flu clinic, held in Pinconning, as an opportunity to test the agency's capabilities to dispense medications to the public, should a pandemic influenza occur. In addition, this exercise served as an outreach opportunity to educate residents of the Pinconning area regarding the Health Department's emergency preparedness plans.

Bay 3 TV Programming

Bay County Health Department utilizes Bay County's local access television station Bay 3 TV as an outreach mechanism to inform residents of agency programs, specific services, and events. The following programs were taped by the Bay County Health Department staff and aired for Bay 3 TV's viewing audience:

- Children Special Health Care Services (CSHCS) Program: CSHCS Program Awareness
- Emergency Management Program: Siren Awareness & Severe Weather Awareness
- Emergency Management Program: Disaster Preparedness / Emergency Preparedness
- Environmental Health Division: Program Overview
- Environmental Health Division: Beach Water Testing Documentary
- Public Health Week Awareness
- Health Screening Program: Program Overview
- Hearing and Vision Program: Hearing and Vision Program Awareness/Overview
- Immunization Clinic: Immunization Program Overview & School Round-up
- Lead Program: Lead Screening Program Awareness/Prevention
- Maternal Infant Health Program (MIHP): Born to Learn Program
- Maternal Infant Health Program (MIHP): MIHP Overview of Services

The Bay County Health Department collaborated with community partners on the following events:

- Boys and Girls Club Health and Safety Fair
- Health Round Up held at the Bay Arenac ISD Career Center
- Nurses administered Tuberculin Skin Tests for students at Bay Arenac ISD Career Center
- Tuberculin Skin Tests administered to the Hampton Fire Department
- Delta College Health Fair
- Project Connect

BAY HEALTH PLAN



The Bay Health Plan is a low cost, community-sponsored program that provides basic healthcare coverage to low-income individuals in Bay County. The plan provides limited coverage for doctor visits, prescriptions, lab tests and X-rays with affordable co-pay amounts. This is not insurance, however, the coverage for many basic healthcare services has assisted many Bay County residents with their healthcare needs. Eligible residents must be between the ages of 19-64 and do not qualify for any other governmental insurance program.

Bay Health Plan Data (Total Number of Enrollees)

| <u>2006</u> | | <u>2007</u> | | <u>2008</u> | |
|---------------|---------------|---------------|---------------|---------------|---------------|
| Plan A | Plan B | Plan A | Plan B | Plan A | Plan B |
| 5,700 | 24,158 | 5,240 | 21,446 | 6,790 | 9,293 |

* **Plan A** is the Adult Benefit Waiver Program through Michigan Department of Community Health.

* **Plan B** is for Bay County residents who have no health insurance, are U.S. citizens and meet income requirements.

MATERNAL & CHILD HEALTH SERVICES DIVISION

Maternal Infant Health Program (MIHP)

The Maternal Infant Health Program provides support to pregnant women and families with infants from pregnancy until the child is three years old.

| CLIENTALE | 2006 | 2007 | 2008 |
|--|---|-------------|-------------|
| Number of Individuals Served (Maternal) | 204 | 165 | 164 |
| Number of Individuals Served (Infant) | 121 | 109 | 110 |
| Number of Maternal Screenings | 174 (Started Screening in April 2006) | 203 | 249 |

Nativity Trends for Bay County

| NATALITY | 2007 |
|--|-------------|
| Live Births | 1,246 |
| Teenage Mothers | 140 |
| Low Weight Births | 103 |
| Under 1,500 Grams | 23 |
| >38 Weeks Gestation | 134 |
| Prenatal Care Began in First Trimester | 1,081 |
| First Births | 487 |
| MORTALITY | 2007 |
| Infant Deaths | 8 |
| Neonatal Deaths | 5 |
| Post neonatal Deaths | 3 |
| Peri-natal Deaths | 16 |
| Fetal Deaths | 12 |



COMMUNICABLE DISEASE PROGRAM

The goals of the Communicable Disease Division are to conduct disease surveillance activities, promptly investigate disease outbreaks and implement control measures to minimize further transmission of disease. Other communicable disease control efforts include: monitoring disease reporting by physicians and laboratories to detect trends and assess the impact of diseases on the public's health; ensure communication between public health agencies, private physicians and hospital/occupational infection control personnel; advise and educate health care providers regarding public health interventions; and disseminate health education messages to the community and media to enhance disease control efforts.

MICHIGAN DISEASE SURVEILLANCE SYSTEM (MDSS) 2006-2008 Reportable Communicable Disease Statistics

| <u>DISEASE</u> | <u>2006</u> | <u>2007</u> | <u>2008</u> |
|--|-------------|-------------|-------------|
| FOODBORNE DISEASE GROUP | | | |
| Campylobacter | 5 | 5 | 6 |
| Giardiasis | 6 | 13 | 7 |
| Listeriosis | 1 | -0- | -0- |
| Salmonellosis | 5 | 9 | 9 |
| MENINGITIS DISEASE GROUP | | | |
| Aseptic Meningitis | 11 | 16 | 13 |
| Bacterial Meningitis | 3 | -0- | -0- |
| OTHER DISEASE GROUP | | | |
| Animal Bite | 28 | 65 | 178 |
| Botulism – Infant | 1 | -0- | -0- |
| Coccidioidomycosis | 1 | -0- | -0- |
| Cryptococcosis | 1 | -0- | 1 |
| Guillain-Barre Syndrome | 1 | 1 | -0- |
| Legionellosis | 2 | 2 | 2 |
| Streptococcal Dis. Inv. Group A | 1 | 1 | 1 |
| STD DISEASE GROUP | | | |
| Chlamydia | 211 | 213 | 257 |
| Gonorrhea | 23 | 39 | 35 |
| Syphilis | 1 | 3 | 2 |
| VACCINE PREVENTABLE DISEASE GROUP | | | |
| Varicella | 29 | 11 | 41 |
| Mumps | 8 | -0- | 1 |
| Pertussis | 12 | 2 | -0- |
| VIRAL HEPATITIS | | | |
| Hepatitis B (Acute) | 1 | -0- | -0- |
| Hepatitis B (Chronic) | 4 | 5 | 1 |
| Hepatitis C (Acute) | 2 | -0- | -0- |
| Hepatitis C (Chronic) | 60 | 25 | 31 |

Physicians, clinical laboratories, primary and secondary schools, childcare centers, and camps are required to report the occurrence or suspected occurrence of any disease, conditions 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.

HEALTH SCREENING SERVICES

The Health Screening Program provides testing, diagnosis and treatment of sexually transmitted diseases, thereby helping to promote and protect the health of the community.

Health Screening Program Data

| <u>CLIENTALE</u> | <u>2006</u> | <u>2007</u> | <u>2008</u> |
|--|-------------|-------------|-------------|
| Clients tested for Sexually Transmitted Diseases (STD) | 632 | 497 | 646 |
| Clients tested for Human Immunodeficiency Virus (HIV) | 466 | 300 | 432 |

HEARING & VISION PROGRAM

The Hearing & Vision Program provides screening by certified technicians in all Bay County schools, Day Cares, and HeadStart/Preschools. *Hearing & Vision data is based on school year.*

Hearing and Vision Screening Data

| <u>CLIENTALE</u> | <u>2006 / 2007</u> <u>(Vision)</u> | <u>2006 / 2007</u> <u>(Hearing)</u> | <u>2007/2008</u> <u>(Vision)</u> | <u>2007/2008</u> <u>(Hearing)</u> |
|----------------------------------|---------------------------------------|--|-------------------------------------|--------------------------------------|
| Preschool aged children screened | 1269 | 1059 | 1109 | 1172 |
| Special education students | 229 | 157 | 399 | 222 |
| School age | 6060 | 4213 | 7361 | 4369 |
| Total | 7558 | 5429 | 8869 | 5763 |



CHILDREN SPECIAL HEALTH CARE SERVICES (CSHCS)

The Children Special Health Care Services Program provides medical specialty care and assistance to eligible children and some adults within Bay County who have chronic physically disabling conditions. In 2007, Plan of Care, Care Coordination and Case Management Services were added.



*Judy McGee, CSHCS Representative
Laura Weiler, CSHCS Nurse*

| <u>CLIENTALE</u> | <u>2006</u> | <u>2007</u> | <u>2008</u> |
|----------------------------|-------------|------------------------|-------------|
| Number of Families Served | 258 | 266 | 275 |
| Level I Plan of Care | N/A | 66 | 79 |
| Level II Care Coordination | N/A | 18 units / 9 families | 29 |
| Case Management Services | N/A | 43 visits / 26 clients | 41 |

EARLY AND PERIODIC SCREENING, DIAGNOSTIC AND TREATMENT (EPSDT)/LEAD PROGRAM

The EPSDT/Lead program provides early detection of developmental delays before school age. In conjunction with periodic screening, this nurse tested children for lead, administered immunizations, and made referrals to Early On, MIHP, WIC, and area physicians for children attending lead 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.

The EPSDT / Lead Program began in October, 2006, and is 100% funded through PIE grant funds administered through the Bay City Public Schools.

EPSDT/Lead Data

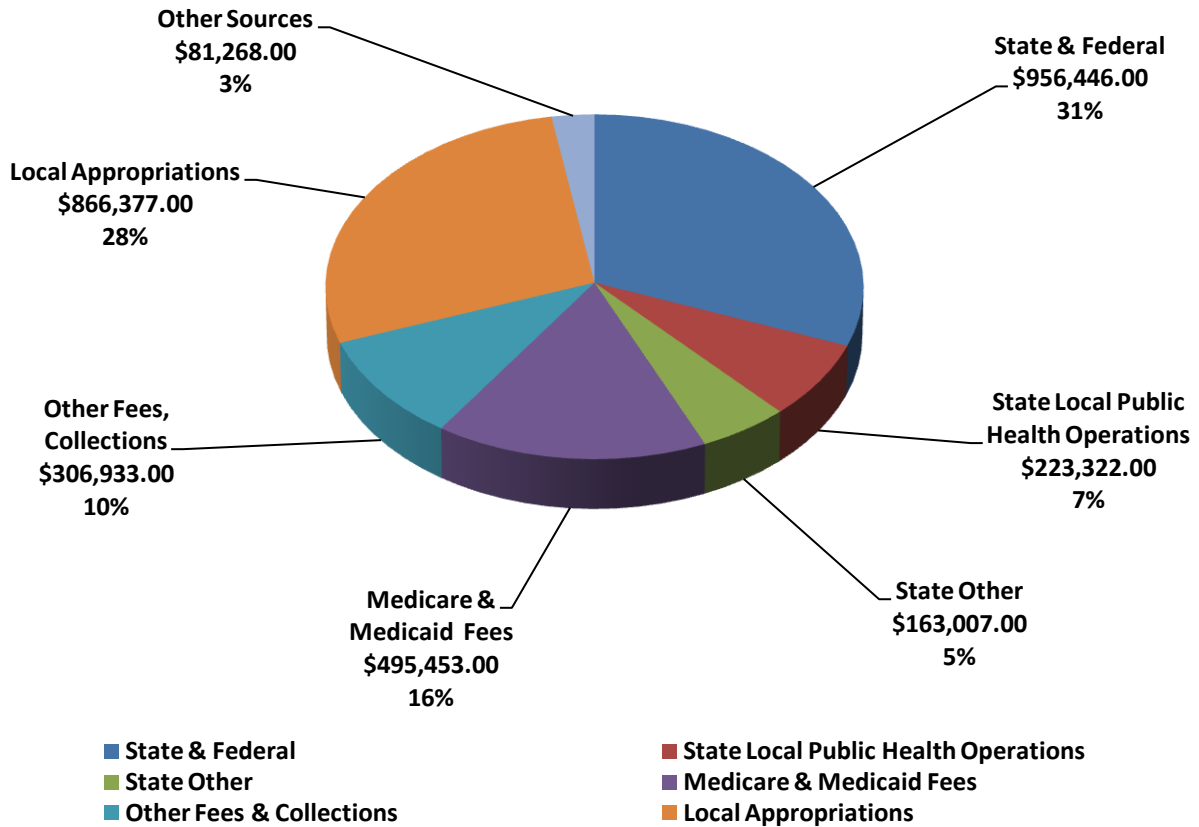
| <u>CLIENTALE</u> | <u>2006</u> | <u>2007</u> | <u>2008</u> |
|---|---------------------|-------------|-------------|
| Number of EPSDT clients | 22 | 81 | -0- |
| Number of Lead Tests performed by Lead Nurse | 21 | 188 | 251 |
| Number of Lead Tests performed by WIC technicians/laboratory | 126 (May – Dec.) | 362 | 362 |
| Number of home visits due to Blood Lead Levels exceeding 20 micrograms per deciliter | 4 | 13 | 1 |
| Number of families contacted due to Blood Lead Levels exceeding 10 micrograms per deciliter | 15 | 15 | 16 |

BAY COUNTY MEDICAL EXAMINER

Bay County's Medical Examiner investigates the cause and manner of sudden and unexpected, accidental, violent and suspicious deaths in Bay County. Bay County Medical Examiner, Dr. Howard Hurt, D.O., provides a very important service by identifying the cause of these types of deaths. This information is helpful in planning efforts to prevent early deaths and improve the community's health.

| Autopsied Deaths 2008 Dr. Howard Hurt, Medical Examiner / Medical Director | |
|---|-------------------|
| AGE | |
| 0-10 yrs. | 3 |
| 11-20 yrs. | 2 |
| 21-30 yrs. | 8 |
| 21-40 yrs. | 8 |
| 41-50 yrs. | 22 |
| 51-60 yrs. | 17 |
| 61-70 yrs. | 6 |
| 71+ | 4 |
| | Total = 70 |
| GENDER | |
| Male | 23 |
| Female | 47 |
| CAUSE OF DEATH | |
| Cardiovascular | 17 |
| Alcoholic (Liver Disease) | 3 |
| Homicide (Blunt Force Trauma) | 1 |
| Auto Accident (Blunt Force Trauma) | 7 |
| Hanging (Suicide) | 2 |
| Gunshot (Suicide) | 5 |
| Stabbing (Suicide) | 2 |
| Carbon Monoxide (Suicide) | 1 |
| Drug Overdose (Suicide) | 2 |
| Homicide | 3 |
| Accidental | 11 |
| Positional asphyxia | 2 |
| Miscellaneous | 14 |
| ALCOHOL / DRUG INVOLVED | |
| Alcohol | 9 |
| Tramadol | 4 |
| Oxycotone | 3 |
| Hydrocodone | 8 |
| Morphine | 3 |
| Methadone | 5 |
| Fentanyl | 2 |
| Cannabis | 2 |
| ASSORTED: Valium, Soma, Ativan, Xanax, Flexeril, Zyrrexa | |

Bay County Health Department Fiscal Year End 9/30/2008 Revenues

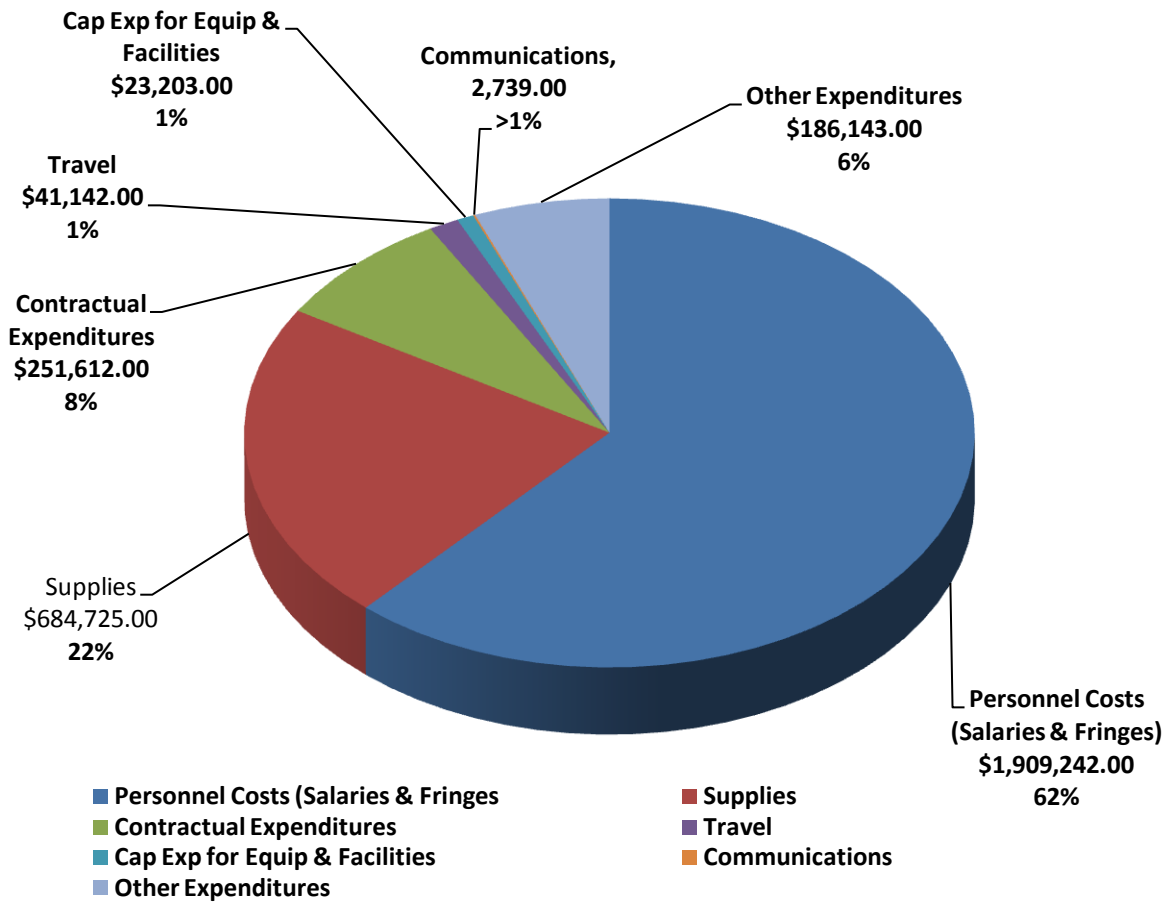


Health Department Revenue

| | |
|---|-----------------------|
| State and Federal | \$ 956,446.00 |
| State Local Public Health Operations (LPHO) | \$ 223,322.00 |
| State Other | \$ 163,007.00 |
| Medicare and Medicaid Fees | \$ 495,453.00 |
| Other Fees and Collections | \$ 306,933.00 |
| Local Appropriations | \$ 866,377.00 |
| Other Sources | <u>\$ 81,268.00</u> |
| Total Revenues | \$3,092,806.00 |

NOTE: All statistics and dollar amounts are subject to final audit.

Bay County Health Department Fiscal Year End 9/30/2008 Expenditures



Health Department Expenditures

| | |
|---|-----------------------------|
| Personnel Costs (Salaries & Fringes) | \$1,903,242.00 |
| Supplies | \$ 684,725.00* |
| Contractual Expenditures | \$ 251,612.00 |
| Travel | \$ 41,142.00 |
| Cap Exp for Equip & Facilities | \$ 23,203.00 |
| Communications | \$ 2,739.00 |
| Other Expenditures | <u>\$ 186,143.00</u> |
| Total Expenditures | \$3,092,806.00 |

**Includes value of Federally Funded Vaccines amount of \$526,640*

NOTE: All statistics and dollar amounts are subject to final audit.

DIVISION ON AGING (DOA)

Services Provided Fiscal Year October 1, 2007 – September 30, 2008



Bay County Division on Aging is dedicated to providing continued opportunities for the community's older adults by maintaining independence, offering social opportunities, and enhancing their lives through quality services in a cost-effective manner. 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's fees:

* Local Millage Programs include: Wonderful Times newsletter, Volunteer program, Handyman service, special events, Senior Olympics, Information and Referral

** Other Grant Programs include: Caregiver Education, Respite Care, Exercise Program

Rebecca Reimann, Division on Aging Director

MEAL SERVICES

| <u>Program</u> | <u>Total Clients</u> | <u>AAA Contract Meals</u> | <u>Waiver Meals</u> | <u>NSIP</u> | <u>Mileage</u> | <u>Total Meals</u> |
|----------------------|----------------------|---------------------------|---------------------|-------------|----------------|--------------------|
| Congregate Nutrition | 412 | 43,528 | -0- | 1,907 | 3,248 | 48,683 |
| Home Delivered Meals | 1,018 | 145,522 | 14,748 | -0- | -0- | 160,270 |

SUPPORT SERVICES – HOURS

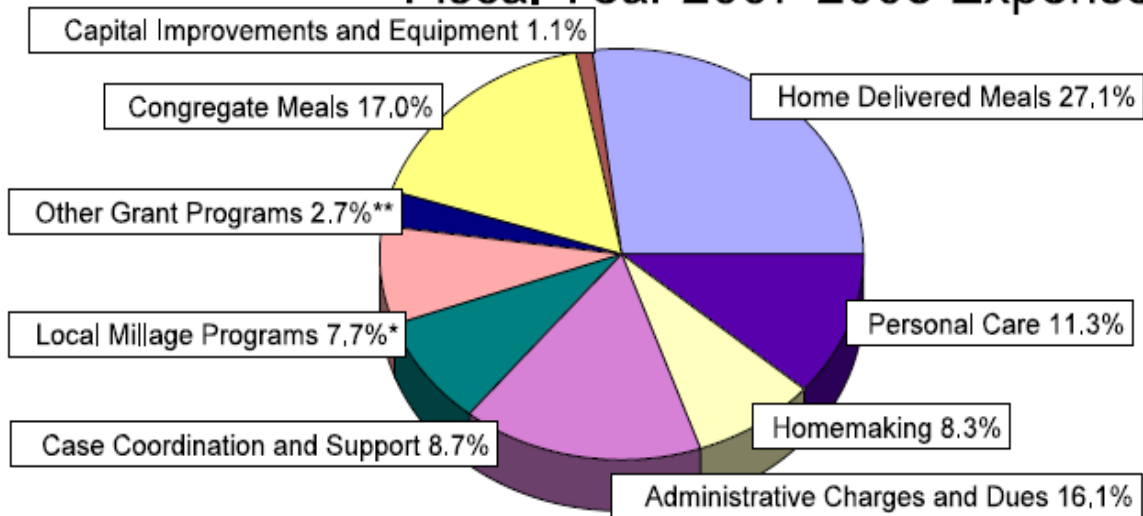
| <u>Program</u> | <u>Total Clients</u> | <u>AAA Contract</u> | <u>Waiver</u> | <u>Care Management</u> | <u>Senior Millage</u> | <u>Total Hours</u> |
|-------------------------------|----------------------|---------------------|---------------|------------------------|-----------------------|--------------------|
| Case Coordination and Support | 1,225 | 6,432.20 | -0- | -0- | -0- | 6,432.20 |
| Caregiver Training | 92 | 503.50 | -0- | -0- | -0- | 503.50 |
| Exercise Program | 37 | 698.50 | -0- | -0- | -0- | 698.50 |
| Homemaking | 271 | 9,896.53 | 235.5 | 90 | -0- | 10,222.03 |
| Respite Care | 28 | 1,027.76 | 9 | -0- | -0- | 1,036.76 |
| Personal Care | 133 | 1,139.90 | 175 | -0- | 3,022.59 | 4,337.49 |

*Service units converted to hours

72 individuals were approved to receive help to remain independent in their homes through pass-through funding provided by Region VII Area Agency on Aging.

NOTE: All statistics and dollar amounts are subject to final audit.

Fiscal Year 2007-2008 Expenses



*Local Millage Programs include: Wonderful Times Newsletter, Volunteer program, Handyman service, special events, Senior Olympics, and Information & Referral

**Other Grant Programs include: Caregiver Education, Respite Care, Exercise Program, and United Way Senior Independence Grant

SOURCES OF INCOME

| <u>Source</u> | <u>Amount</u> | <u>Percentage</u> |
|----------------------|--------------------|-------------------|
| Senior Millage Fund | \$1,686,486 | 60.8 |
| Grants | \$514,543 | 18.5 |
| Client Contributions | \$282,713 | 10.2 |
| NSIP*** | \$115,652 | 4.2 |
| Medicaid Waiver | \$109,700 | 4.0 |
| Other Income/Rebates | \$13,174 | 0.5 |
| Client Fees | \$31,568 | 1.1 |
| Tobacco Settlement | \$14,300 | 0.5 |
| General Fund | \$6,200 | 0.2 |
| Total | \$2,774,336 | 100 |

***Nutrition Services Incentive Program (formerly USDA)