

2009 Annual Report

BAY COUNTY HEALTH DEPARTMENT

"Creating a Healthy Environment for the Community"

INSIDE THIS REPORT:

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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 2009. If there is a particular area of interest that is not listed in this report, please feel free to contact our office.

¹ Cost savings data was retrieved from *Analysis of the Value of Local Public Health Operations Funding* (April 2010). Prepared for: Michigan Association for Local Public Health (MALPH) Prepared by: Public Sector Consultants, Inc. Lansing, MI

Annual Report Prepared by Rachelle Shotwell
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.



"The Bay County Health Department has provided, and will continue to provide, excellent health services to the citizens of Bay County. The Health Department's state performance reviews have continually been of the highest quality and reflect the staff's hard-work, dedication and professionalism on a daily basis." ~Tom Hickner, County Executive



*"To the Citizens of Bay County: The Bay County Health Department continues to serve Bay County residents in the most professional, efficient and cost effective manner possible. Under the capable direction of Health Director Barbara MacGregor, the Health Department staff "does more with less". While funding cuts are having an impact in all areas of our community, the Bay County Health Department is dedicated to its goal of providing necessary services and programs in order to maintain the good health of the citizens of Bay County. As evidenced by the 2009 Annual Report, the Bay County Health Department continues to serve our community very well."
~Brian K. Elder, Chairman
Bay County Board of Commissioners*



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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 the 2009 Bay County Department of Community Health Annual Report. Bay County Health Department's Annual Report illustrates the quality of service and commitment of staff, providers, and community partners who join together to ensure that each citizen of Bay County benefits from comprehensive public health practices. Our employees strive to maintain high quality programs and services, even in these very difficult economic times.

To many people, when they think of "public health", they think about the medical care provided to adults and children who are under- or un-insured at public health clinics. Actually, this is only one of the many services Bay County Health Department provides. Health Department programs are responsible for ensuring the food you eat and the water you drink are uncontaminated, that contagious diseases are prevented, sewage is contained, and the beaches and pools you swim in are safe. It is these public health programs that allow all of us to enjoy a longer and healthier lifespan.

Throughout the 2009 Annual Report, you will see how the Health Department collaborated with community, state and federal partners to provide many services. Some of these services included responding to the H1N1 influenza pandemic by conducting a H1N1 Influenza A vaccination campaign which provided thousands of immunizations at community-based clinics, participation in Health Fairs, providing vouchers to pregnant women and new mothers to purchase nutritious foods from our local farmer's market, providing TB testing to school employees and local businesses, removal of household hazardous wastes, and investigation of communicable and food-borne illness outbreaks. Without these relationships and collaborations, we would not be able to provide all of the programs our citizens need.

I encourage you to review this report and become aware of the programs and services provided by our Health Department. Should you want to learn more about our programs and services do not hesitate to contact us or visit us on the web at: www.baycounty-mi.gov/Health.

Yours in good health,

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

Barbara M. MacGregor
Health Officer

Profile of Bay County, 2008

Population: 107,495

Male: 52,267
Female: 55,228
Under 18 Years: 23,688
18-44 Years: 36,081
45-64 Years: 30,908
65 Years & Older: 16,818

Race:

White: 103,904
Black: 2,197
Native American: 764
Hispanic: 4,526

Unemployment Rate: 14.3 % (Jan 10')

Births: 1197

Deaths: 1,217 (2009 Data)

Infant: 8

Leading Causes of Death 2008:

Heart Disease: 327
Cancer: 272
Chronic Lower Respiratory Disease: 89
Stroke: 54
Alzheimer's Disease: 33
Unintentional Injuries: 33
Influenza/Pneumonia: 18
Kidney Disease: 19
Accidents: 18
Suicides: 12
Homicides: 3



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 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. 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. Local health departments are responsible for restaurant inspections, as well as investigation and follow-up when a suspected food borne illness outbreak occurs.

Food Service Inspections and Actions Data

PROGRAM	<u>2007</u>	<u>2008</u>	<u>2009</u>
Fixed Food Establishment Inspections	631	605	680
Mobile, Vending & STFU, Temporary Food Establishment Inspections	146	96	144
Follow-up Inspections	94	73	63
Number of Plans Received for Review	6	15	13
Number of Plans Approved	9	17	76
Consumer Complaints Investigated	35	33	46
Foodborne Illness Complaints Investigated	12	5	6
Foodborne Illness Outbreaks	0	0	1
Administrative Action (office conference, informal conference, formal hearing, civil fines, orders)	9	5	6

In 2009, approximately 187 confirmed cases of food borne illness occurred in the state of Michigan, at an estimated cost of over \$1.5 million for treatment. Costly food borne illness outbreaks would be more likely in the absence of this program. ¹

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

PROGRAM	2007	2008	2009
Number of Well Permits Issued	79	81	84
Number of Pre Drilling Site Reviews Completed	71	64	43
Number of Final Inspections of Newly Completed Water Well Systems	58	57	50
Number of Abandoned Wells Plugged	19	36	34
Number of Facility Swimming Pools/Spas Inspections Completed	46	45	48

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 and 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

PROGRAMS	2007	2008	2009
Number of Parcels Evaluated	286	173	87
Number of On-Site Sewage Permits Issued	124	78	66
Number of Alternative/Engineered Systems Approved	18	4	12
Number of Complaints Investigated	19	15	7

ENVIRONMENTAL HEALTH DIVISION HIGHLIGHTS AT A GLANCE

In 2009, a total of 68 households participated in the Household Hazardous Waste Collection Program on October 17. Approximately 4,629 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. The Bay County Health Department is expected to continue to receive funding for the Household Hazardous Waste Collection Program in 2010.

HEALTHY HOMES PROGRAM



Bay County Health Department's Environmental Health Division purchased an XRF (X-ray Fluorescence) Niton Lead Analyzer in 2009. X-Ray Fluorescence is a non-destructive method of testing for lead content. It has been used successfully for measuring lead in soil and paint, including paint on children's toys, furniture, and other objects. This program will be available in year 2010. More details to follow.

BEACH MONITORING AND KAWKAWLIN RIVER SANITARY SURVEY PROGRAM

For over twenty five years, staff from the Bay County Health Department's Environmental Health Division has conducted the Bathing Beach/Surface Water Quality (BB/SWQ) Monitoring Program. The Environmental Protection Agency (EPA) provides resources through the Michigan Department of Environmental Quality via funding from the Beaches Environmental Assessment and Coastal Health Act of 2000 (Beach Act). Bay County, in return, receives funds to administer the BB/SWQ program for all public beaches. The county, as a whole, examines eight (8) sampling stations in Bay County. Five (5) of these locations are sampled on the Saginaw Bay (Pinconning Park Beach, South Linwood Township Park Beach, Brissette Beach, the Bay City State Recreation Area, and Wenona Beach) and are supported through Beach Act funds. Other sampling stations-- two (2) on the Saginaw River and one (1) on the Kawkawlin River are funded locally.

Although point and non-point sources of these contamination events cannot be identified directly, there are many different explanations as to what may contribute to bacterial contamination in the rivers and bay. First and foremost, combined and separated sewage overflows have been theorized to be the main source of E. coli contamination. Both of these are caused from excess storm water runoff into combined and sanitary sewers. The construction of additional sewage retention basins and improvements to existing municipal wastewater collection and treatment systems within the Saginaw Bay watershed in recent years has significantly reduced the number of combined and raw sewage overflow events. It is anticipated that future improvements will further reduce and/or eliminate municipal and residential sewage discharges into the Saginaw River, its tributaries, and the Saginaw Bay.

**2009 Bathing Beach/Surface Water Quality
Sample Analysis Summary**

Station	Location of Sampling Station	Total # of Samples Collected	Weekly Geometric Average Exceedences	30-Day Geometric Average Exceedences	Total Exceedences
1	Veteran's Park South	48	0	0	0
2	Veteran's Park Bay City	48	0	0	0
3	Wenona Beach	144	0	0	0
4	Kawkawlin River	57	0	0	0
5	Bay City State Rec. Area	153	3	0	3
6	Brissette Beach	147	1	0	1
7	S. Linwood Beach	153	4	0	4
8	Pinconning Park	147	1	0	1
		897	9	0	9

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 Hazard, Analysis and Critical Control Points (HACCP) Principles.



<u>ServSafe Data</u>	<u>2008</u>	<u>2009</u>
Number of Participants	78	138
Number of Participants that Passed ServSafe Exam	76	136

IMMUNIZATION PROGRAM

<u>VACCINE</u>	<u>DOSES ADMINISTERED IN 2008</u>	<u>DOSES ADMINISTERED IN 2009</u>
DTaP	260	285
Td Adult Only	29	28
Tdap	250	303
Hib-Pedvax	265	374
Meningococcal Conjugate	233	256
Hib Hep B	6	0
Hep B (Pediatric)	37	24
Hep B (Adult)	141	204
IPV Dose	185	198
MMR	289	260
Varicella	359	342
Pneumococcal Conjugate	400	377
Hep A (Pediatric)	448	599
Hep A (Adult)	81	163
DTaP-Hep B-IPV	240	232
Influenza (seasonal)	763	1072
H1N1 Novel	-	4022
Rotavirus	139	166
TB Testing	413	360
Zostavax	131	13
HPV 4	301	137
TOTAL	4969	9415

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: influenza, 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
- * Implementation of the 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 vaccinations into the MCIR.
- * 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.

Every Dollar invested in childhood immunization programs provides a savings of \$22 in direct and indirect costs. Local health departments administered and monitored more than 1.5 million doses of childhood vaccine in 2009 using \$4 million. The savings to the state as a result of this program were at least \$88 million.¹



Lisa Blackmer, Immunization Nurse; April Mathis, Lisa Davis, Division Clerks

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>2007</u>	<u>2008</u>	<u>2009</u>
Number of Unduplicated Persons Receiving Services in Family Planning Clinic	1392	1306	1253
Number of Encounters in Family Planning Clinic	3255	3097	2971
Females Served	1379	1303	1250
Males Served	13	3	3



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

WOMEN, INFANTS AND CHILDREN (WIC) PROGRAM

WIC is a federally funded program that provides nutritious food, nutrition education and assistance with community referrals for high-risk pregnant women, infants and children under the age of five. Eligibility is at or below 185% of poverty which serves low to moderate income families who meet income requirements. Families receive nutrition counseling, access to other support services offered through the Bay County Health Department and local community agencies. The WIC Clinic also partners with MSU Extension (MSUE) to provide Project Fresh, a program that offers locally grown produce through the farmers' markets during the summer and early fall for eligible WIC families.

The WIC Program underwent major changes during 2009 that has had a positive effect on how local WIC agencies administer the program throughout the state of Michigan. One change included transition from use of paper vouchers, to using an Electronic Benefit Transfer (EBT) card to purchase food at local WIC approved stores. Now clients swipe their WIC Bridge card, similar to other debit cards, when purchasing WIC foods. Another benefit has been the introduction of new software: "MI-WIC". This has greatly reduced the amount of time WIC clients spend at the clinic by providing an efficient, paperless system. This new software allows for a streamlined process for staff, with decreased waiting time for clients during the eligibility process. Lastly, the United States Department of Agriculture (USDA) approved changes to the WIC food packages in an attempt to appeal to a more diverse population. Their goal was to improve the nutrition status of WIC recipients and adhere to the current dietary recommendations which include a reduction in total fat and sodium intake, increased fiber and continued support of breastfeeding families. WIC participants are now able to purchase whole grain breads, fresh fruits and vegetables, baby food and non-meat proteins in additional to other food staples.



WIC Program Data

	2009
WIC Base Caseload	2747
Closeout Participation	2964
% Closeout Participation to Base Caseload	108%
WIC Program Appointments	
Certifications (New Enrollees)	540
Re-Certifications	3940
Infant Evaluation	730
Registered Dietitian Assessments	312
Nutrition Education	1228
Lead Screens	269
Project Fresh Coupons Issued	1543

In 2009, \$1,748,572.00 was spent in Bay County by WIC program participants. These dollars greatly and positively affect our community's economy.

LABORATORY SERVICES

The Bay County Health Department's Laboratory Services Division provides a variety of diagnostic and analytical services to support public health initiatives related to the citizens of Bay County. These services include: testing for sexually transmitted diseases, cholesterol screening, lipid profiles, glucose screening, lead testing, and pregnancy testing. The Bay County Health Department's lab also tests well water for fecal coli form, measures bacterial counts of public swimming pool water, and analyzes water from rivers, beaches and streams for suspect contaminations.

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>CLIENTELE</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>
Number of Clients	3804	4534	4763
Number of Tests	7107	6661	7083



EMERGENCY PREPAREDNESS & MANAGEMENT DIVISION



(L to R)Cindy Ashley (Public Health Nurse), Wendy Donnelly (Division Clerk), Melissa Maillette (Manager/EPC), Dominic Smith (Health Educator), Rachelle Shotwell (Community Health Educator), Chris Izworski (Emergency Management Coordinator)

Melissa Maillette, Emergency Preparedness & Management Division Manager

2009 was a unique and challenging year for public health emergency preparedness due to the H1N1 pandemic. Local, State, and Federal public health agencies implemented several emergency preparedness plans (i.e. Pandemic Influenza Plan, Strategic National Stockpile Plan, Crisis and Emergency Risk Communication Plan, and Comprehensive All Hazards Public Health Response Plan) with modifications



specific to the newly emerged H1N1 virus. The outbreak began in April 2009, and by June 11th was declared a pandemic by the World Health Organization (WHO). The H1N1 vaccination campaign began in October with five initial target groups of the population identified by the Advisory Committee on Immunization Practices (ACIP – a division of the National Center for Immunization and Respiratory Diseases of the Centers for Disease Control and Prevention) as priority for vaccination.

From mid-October through mid-December, the Bay County Health Department (BCHD) held eighteen community H1N1 mass vaccination clinics and administered both the live, attenuated nasal spray vaccine and the inactivated “flu shot”. The community vaccination sites included: the Bay County Community Center, the Bay County Fairgrounds Canteen, St. Stanislaus Kostka Parish Center, Pinconning Schools, the Bay County Health Department, Bangor Township Hall, and the Bay Arenac Community High School. In addition to BCHD personnel and other Bay County employees, several senior volunteers provided by the Division on Aging assisted at the clinics. The East Shoreline Chapter of the American Red Cross provided volunteers through their AmeriCorps program, as well as water and coffee for clinic staff. Students in the Saginaw Valley State University (SVSU) nursing program also volunteered their time to assist in clinic efforts.

Every H1N1 vaccination administered saves between \$91 and \$141 in direct medical costs. As a result, every dollar spent to administer those vaccinations provides a savings of \$11.¹

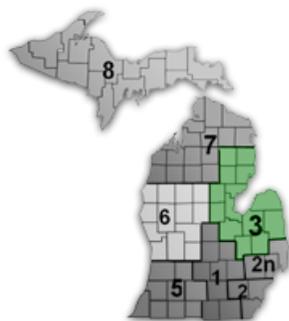
In December, two new staff members were hired to assist with the H1N1 vaccination and outreach efforts. Rachelle Shotwell joined the team as a Community Health Educator/Pandemic Influenza Coordinator and Cindy Ashley as our newest Public Health Nurse.

Several health care agencies and physician practices partnered with the BCHD to administer the H1N1 vaccine. The list of these offices and agencies included:

- Children’s Medical Group
- Bay Regional Pediatrics
- Bay Pediatric Clinic
- Bay Family & Child Health Clinic
- Bay Regional Medical Center
- Bayside Health Center
- Eastside Family Physicians
- Bay Area Health Clinic PC
- Bay County Medical Care Facility
- Ann Connaghan, MD
- Charlotte Yang, MD
- Janet Guisinger, MD
- James Bodrie, MD
- Inkun Shin, MD
- Debbie Filek, MD
- Susan Hendrickson, MD
- Bay Valley Internal Medicine
- Covenant MedExpress
- Saint Mary’s Women’s Health Center
- Kroger Pharmacy – both locations
- Walgreens Pharmacy – both locations
- Meijer Pharmacy – both locations
- Fresenius Medical Services

In addition to the H1N1 vaccination efforts, outreach and education activities were implemented to inform the public about the H1N1 virus, the vaccine, and ways to prevent the transmission of the virus to keep the community as healthy as possible. Community Health Educator, Dominic Smith, provided presentations to the Bay City Public School (BCPS) elementary parents through the BCPS Coffee Clubs and also provided in-services to the Bay County Court’s staff, the Kiwanis Club and the U.S. Bankruptcy Court. The BCHD also partnered with both the Michigan State University Extension Office (MSU-E), and the American Red Cross, to present educational sessions at various Bay County schools, preschools, and daycares. In February, the BCHD held an all day staff in-service training. Trainings included blood borne pathogens, fire and severe weather evacuation procedures and review of several Health Department and County policies/procedures. In addition, staff received required annual training on emergency preparedness topics including: the Strategic National Stockpile (SNS), overview of Public Health Emergency Preparedness and County Emergency Management systems, Modular Emergency Medical System (MEMS), BCHD Incident Command Center activation and call-down procedures, emergency exercise requirements, and training on the All Hazards Comprehensive Public Health Response Plan and the Continuity of Operations Plan (COOP). Staff was also provided information on family preparedness.

The County Emergency Management Coordinator, Christopher Izvorski, is organizationally located within the Emergency Preparedness & Management Division of the BCHD. In addition to completing the many activities as required by the Emergency Management Performance Grant as well as Region 3 duties and meeting attendance, the Emergency Manager provided support for all H1N1-related efforts, assisting in planning for and implementing the H1N1 response activities.



Bay County is part of Region 3 of the Healthcare Preparedness Network

Emergency Management Activities in 2009 included:

- Coordinating Severe Weather Awareness Training (through the National Weather Service) in conjunction with the American Red Cross and taped segments on Winter Weather Awareness and Severe Weather Awareness for Bay 3TV.
- Hosting the Bay County Training and Exercise Planning Workshop with first responders and other emergency response agencies to plan exercises and activities for the year
- Developing an instructional DVD for officials who may utilize the Incident Command Trailer
- Providing the Bay County Golf Course with all-hazard radios
- Developing a severe weather plan for the Bay County Golf Course and Pinconning Park
- Beta-tested Nixle software as a redundant method of public warning
- Preparing materials and scheduling meetings for the completion of the Bay County Hazard Mitigation Plan
- Serving on the United Way planning team for Bay County Employees

Looking ahead to 2010, the Emergency Preparedness and Management Division staff will continue to strengthen outreach opportunities to the residents of Bay County, reinforce relationships with partner agencies and provide education and resources regarding emergency preparedness.

COMMUNITY OUTREACH/EDUCATION

Several outreach and community collaborations took place during 2009. Staff attended other local health department and county drills/exercises within Region 3 and participated in health fairs and community events in Bay County. The Health Education Staff provided pandemic influenza, blood borne pathogens, emergency preparedness, safe fish and wild game consumption and general hygiene/hand washing presentations to staff, community groups, and schools. They participated as a facilitator for Garber High School's Challenge Day as well as attended the Bay Regional Medical Center Emergency Medical Services (EMS) Open House Health & Safety event and taped a segment for Bay 3TV.



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's Special Health Care Services (CSHCS) Program: CSHCS Program Awareness
- Emergency Management Program: Winter/Spring Severe Weather Awareness
- Emergency Management Program: Disaster Preparedness / Emergency Preparedness
- Environmental Health Division: Program Overview
- Environmental Health Division: Phosphorus Fertilizer Ban Discussion
- Environmental Health Division: Beach Water Testing Documentary
- Environmental Health Division: Backyard Food Safety
- Family Planning: General Clinic Overview
- 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 Overview of Services
- Public Health Week Awareness



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

- Bay County Public School Academy Community Carnival
- United Way Healthy Futures Fair
- Emergency Medical Services Open House
- Auburn Jaycees Fall Family Festival
- Community Baby Shower
- Boys and Girls Club Health and Safety Fair
- Health Round Up held at the Bay Arenac Intermediate School District (ISD) Career Center
- Tuberculin Skin Tests provided to students at Bay Arenac Intermediate School District Career Center and Hampton Fire Dept.
- Bay County Project Connect
- EPA Booth at the All About Women's Expo

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>2007</u>		<u>2008</u>		<u>2009</u>	
Plan A	Plan B	Plan A	Plan B	Plan A	Plan B
5,240	21,446	6,790	9,293	7,312	6,296

* **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 (MIHP) is a voluntary, supportive, and educational program. It provides support to pregnant women and families with infants, who qualify for Medicaid insurance, reside in Bay County and meet appropriate criteria, from pregnancy until the child is three years old. MIHP can provide expectant parents a home visit from a Social Worker, Dietitian, and Public Health Nurse.

CLIENTALE	2007	2008	2009
Number of New Enrollees (Maternal)	165	164	135
Number of New Enrollees (Infant)	109	110	135
Number of Maternal Screenings	203	249	152

Nativity Trends for Bay County

NATALITY	2008
Live Births	1,197
Teenage Mothers	129
Low Weight Births	104
Under 1,500 Grams	18
>38 Weeks Gestation	129
Prenatal Care Began in First Trimester	913
First Births	464
MORTALITY	
2009	
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.

Based on the costs stemming from one of the more than 100 reportable diseases, bacterial meningitis, a conservative savings estimate for contagious disease control is \$2.00 for every dollar invested.¹

MICHIGAN DISEASE SURVEILLANCE SYSTEM (MDSS) 2007-2009 Reportable Communicable Disease Statistics

DISEASE	2007	2008	2009
FOODBORNE DISEASE GROUP			
Campylobacter	5	6	9
Giardiasis	13	7	3
Listeriosis	-0-	-0-	-0-
Salmonellosis	9	9	12
MENINGITIS DISEASE GROUP			
Aseptic Meningitis	16	13	10
Bacterial Meningitis	-0-	-0-	1
OTHER DISEASE GROUP			
Animal Bite	65	178	237
Botulism – Infant	-0-	-0-	-0-
Coccidioidomycosis	-0-	-0-	1
Cryptococcosis	-0-	1	-0-
Guillain-Barre Syndrome	1	-0-	-0-
Influenza, 2009 Novel H1N1 (confirmed cases)			23
Legionellosis	2	2	2
Streptococcal Dis. Inv. Group A	1	1	1
STD GROUP			
Chlamydia	213	257	305
Gonorrhea	39	35	38
Syphilis	3	2	-0-
VACCINE PREVENTABLE DISEASE GROUP			
Varicella	11	41	18
Mumps	-0-	1	-0-
Pertussis	2	-0-	9
VIRAL HEPATITIS			
Hepatitis B (Acute)	-0-	-0-	1
Hepatitis B (Chronic)	5	1	1
Hepatitis C (Acute)	-0-	-0-	14
Hepatitis C (Chronic)	25	31	43

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. Chlamydia and gonorrhea are two of the most commonly reported STDs and can be especially harmful to women.

Left untreated, these diseases can develop into pelvic inflammatory disease (PID), which costs, on average, \$3,600 to treat. Based on the number of women screened and referred for treatment, every dollar invested in STD screening results in at least \$2.50 in savings.¹

Health Screening Program Data

<u>CLIENTALE</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>
Clients tested for Sexually Transmitted Diseases (STD)	497	646	599
Clients tested for Human Immunodeficiency Virus (HIV)	300	432	426

HEARING & VISION PROGRAM

The Hearing & Vision Program provides screening by certified technicians in all Bay County schools, Day Cares, and HeadStart/Preschools. The Bay County Health Department provides free vision and hearing screenings for Pre-Kindergarten children as required by the State of Michigan's Public Health Code before entering Kindergarten. Our goal is to identify at the earliest possible point any hearing or vision defects. Difficulties can often be remedied if discovered at a time when easiest to treat. Untreated Hearing loss costs about \$250,000 in a lifetime, 75 percent of which is due to lost work productivity.

Every dollar spent on hearing screening potentially saves \$112 in future work productivity with appropriate early intervention. Vision screening is effective in early detection of eye problems that can largely be prevented with early treatment. Every dollar spent on vision screening saves \$162.¹



Hearing and Vision Screening Data

<u>CLIENTELE</u>	<u>2007/2008</u> <u>(Vision)</u>	<u>2008/ 2009</u> <u>(Vision)</u>	<u>2007 / 2008</u> <u>(Hearing)</u>	<u>2008/2009</u> <u>(Hearing)</u>
Preschool aged children screened	1109	1247	1172	1268
Special education students	399	255	222	245
School age	7361	6579	4369	4369
Total	8869	8081	5763	5882

****Hearing & Vision data is based on school year.**

CHILDREN'S SPECIAL HEALTH CARE SERVICES (CSHCS)

The Children's 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
Kathy Janer, CSHCS Nurse*

<u>CLIENTELE</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>
Number of Families Served	266	275	268
Level I Plan of Care	66	79	46
Level II Care Coordination	18 units / 9 families	29 units	41 units
Case Management Services	43 visits / 26 clients	41	16

LEAD EDUCATION AND SCREENING PROGRAM

The Lead Program began in October, 2006, and was fully funded through Parent Involvement and Education (PIE) grant funds administered through the Bay City Public Schools. In 2008/2009, funding for this program was eliminated. The BCHD continues to screen Medicaid eligible children through the MIHP and WIC program. For children whose Blood Lead Levels (BLL) were at or above 10 micrograms per deciliter of blood, the 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 by the Environmental Health Division Elevated Blood Lead (EBL) Investigator/Risk Assessor.

Lead Data

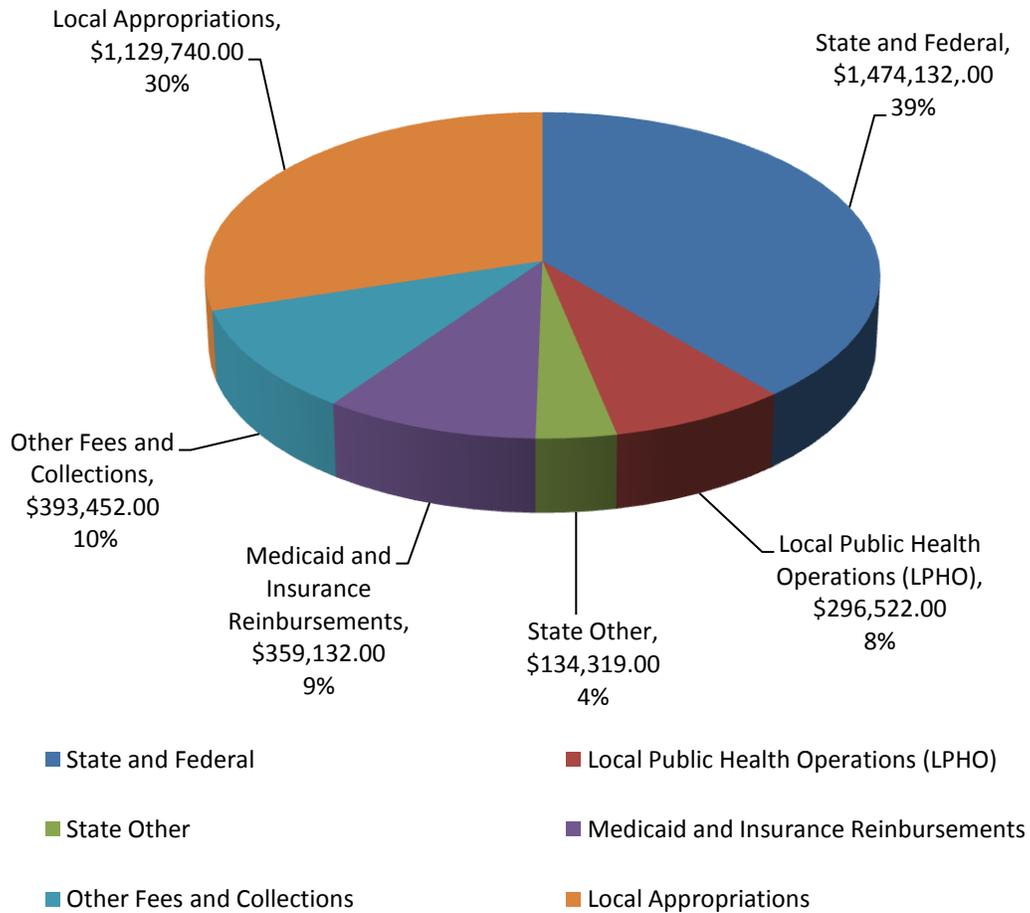
<u>CLIENTELE</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>
Number of Lead Tests performed by Lead Nurse	188	251	221
Number of Lead Tests performed by WIC technicians/laboratory	362	362	325
Number of home visits due to Blood Lead Levels exceeding 20 micrograms per deciliter	13	1	12
Number of families contacted due to Blood Lead Levels exceeding 10 micrograms per deciliter	15	16	21

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 2009 Dr. Howard Hurt, Medical Examiner / Medical Director	
AGE	
0-10 yrs.	4
11-20 yrs.	3
21-30 yrs.	11
31-40 yrs.	8
41-50 yrs.	23
51-60 yrs.	13
61-70 yrs.	10
71+	5
Total:	77
GENDER	
Male	52
Female	25
CAUSE OF DEATH	
Cardiovascular	24
Alcoholic (Liver Disease)	6
Homicide (Blunt Force Trauma)	1
Auto Accident (Blunt Force Trauma)	7
Hanging (Suicide)	2
Gunshot (Suicide)	1
Carbon Monoxide (Suicide)	1
Drug Overdose (Suicide)	1
Homicide	2
Accidental	17
Accident (Drowning)	4
Indeterminate	13
Miscellaneous	2
ALCOHOL / DRUG INVOLVED	
Alcohol	12
Cocaine	3
Oxycodone	2
Hydrocodone	1
Morphine	2
Methadone	6
Methamphetamine	1
Cannabis	1
ASSORTED: Propoxyphene, Soma, Xanax	5

Bay County Health Department Fiscal Year End 9/30/2009 Revenues

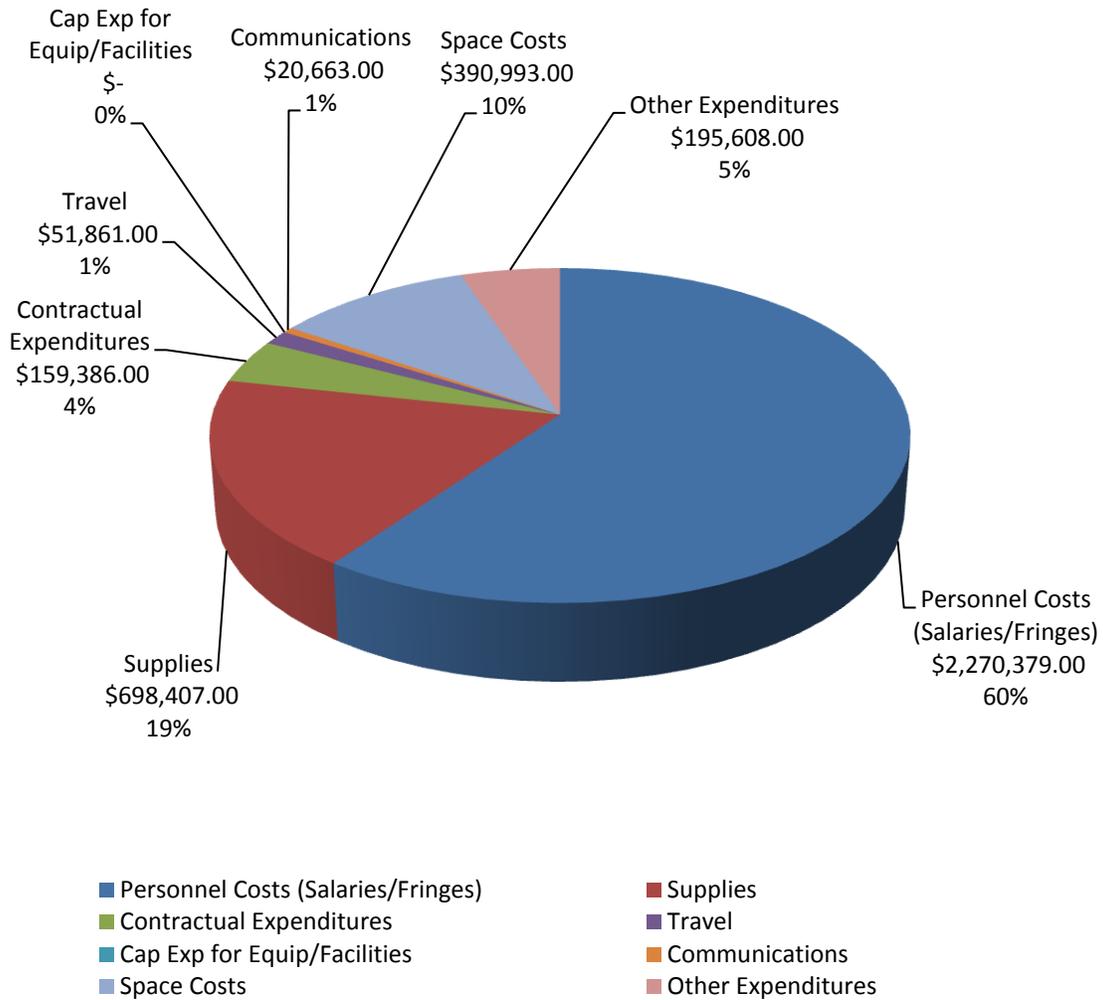


Health Department Revenue

State and Federal	\$ 1,474,132.00
State Local Public Health Operations (LPHO)	\$ 296,522.00
State Other	\$ 134,319.00
Medicare and Medicaid Fees	\$ 359,132.00
Other Fees and Collections	\$ 393,452.00
Local Appropriations	<u>\$1,129,740.00</u>
Total Revenues	\$3,787,297.00

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

Bay County Health Department Fiscal Year End 9/30/2009 Expenditures



Health Department Expenditures

Personnel Costs (Salaries/Fringes)	\$ 2,270,379.00
Supplies	\$ 698,407.00*
Contractual Expenditures	\$ 159,386.00
Travel	\$ 51,861.00
Cap Exp for Equip/Facilities	\$ -
Communications	\$ 20,663.00
Space Costs	\$ 390,993.00
<u>Other Expenditures</u>	<u>\$ 195,608.00</u>
Total Expenditures	\$ 3,787,297.00

**Includes value of Federally Funded Vaccines amount of \$526,640.00*

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

DIVISION ON AGING (DOA)

Services Provided Fiscal Year October 1, 2008 – September 30, 2009



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							
Program	Total Clients	*ARRA Meals	AAA Contract Meals	Waiver Meals	NSIP	Millage	Total Meals
Congregate Nutrition	518	1,068	46,862	-0-	1,771	959	50,660
Home Delivered Meals	1,036	958	144,084	14,169	-0-	-0-	159,211

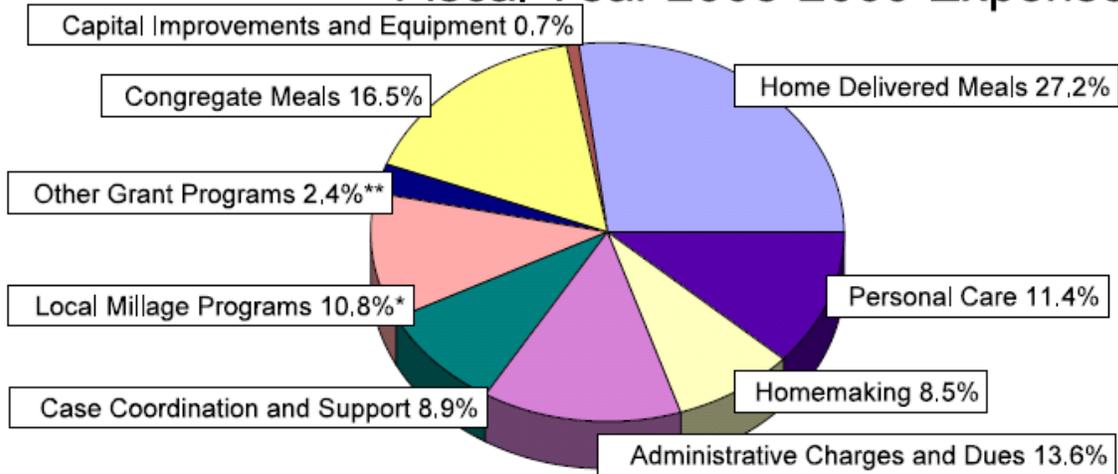
* American Recovery and Reinvestment Act of 2009 (ARRA)

SUPPORT SERVICES - HOURS								
Program	Total Clients	AAA Contract	* Waiver	Tobacco Settlement	Care Mgmt.	Dept. of Human Services	Senior Millage	Total Hours
Case Coordination and Support	1,154	6,199.80	-0-	-0-	-0-	-0-	-0-	6 ,199.80
Caregiver Training	77	545.75	-0-	-0-	-0-	-0-	-0-	545.75
Exercise Program	82	1,198.50	-0-	-0-	-0-	-0-	-0-	1 ,198.50
Homemaking	276	9,251.77	285.25	-0-	74	325.5	-0-	9 ,936.52
Respite Care	27	542.25	-0-	259.5	-0-	-0-	-0-	801.75
Personal Care	104	732	77	0	31	657	2,650.16	4 ,147.16

* Service units converted to hours

NOTE* All Statistics and Dollar Amounts Are Subject to Final Audit

Fiscal Year 2008-2009 Expenses



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

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

SOURCES OF INCOME

Source	Amount	Percentage
Senior Millage Fund	\$1,584,071	59.2
Region VII Area Agency on Aging Grants/ARRA***	513,323	19.2
Client Contributions	284,376	10.6
NSIP****	126,706	4.7
Medicaid Waiver	81,264	3.0
Other Income/Rebates	22,992	0.9
Client Fees	40,621	1.5
Tobacco Settlement Funds	3,372	0.1
General Fund	7,350	0.3
Department of Human Services	12,216	0.5
Total	\$2,676,291	100

***American Recovery and Reinvestment Act of 2009 (ARRA)

****Nutrition Services Incentive Program (formerly USDA)