



**BAY COUNTY  
HEALTH  
DEPARTMENT**

# 2010 Annual Report



## PUBLIC HEALTH SERVICES

Health Promotion  
Health Protection  
Disease Prevention



## Main Location

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Bay City, Michigan 48708  
Ph: (989) 895-4003  
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[www.baycounty-mi.gov/Health](http://www.baycounty-mi.gov/Health)

## Pinconning Clinic

415 Arthur St  
Pinconning, Michigan 48650  
Ph: (989) 879-3081  
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## Profile of Bay County

**Population:** 107,771 (2010)  
Male: 52,751  
Female: 55,020  
Under 18 Years: 23,952  
18-64 Years: 66,312  
65 Years & Older: 17,507

### **Race: (2010)**

White: 101,451  
Black: 1,702  
Native American: 564  
Asian: 578  
Hispanic: 5093

**Unemployment Rate:** 11.7 % (Dec 10')

Births: 1197  
Deaths: 1,217 (2009 Data)  
Infant Deaths: 8

### **Leading Causes of Death 2009:**

Heart Disease: 349  
Cancer: 269  
Chronic Lower Respiratory Disease: 60  
Stroke: 53  
Alzheimer's Disease: 51  
Unintentional Injuries: 36  
Diabetes: 35  
Kidney Disease: 18  
Accidents: 18  
Influenza/Pneumonia: 17  
Suicides: 8



**This report highlights public health services indicators for the year 2010. If there is a particular area of interest that is not listed in this report, please feel free to contact our office.**

### What's Ahead:

**The Bay County Health Department is poised to face the health needs of the community in 2011. Working harder and smarter during challenging economic conditions, our work continues with innovative programs that protect, prevent, prepare, and promote public health through sound policies, programs, resources, and tools. We provide these Essential Public Health Services so Bay County is a safe place for residents and visitors to live, work, and play.**

<sup>1</sup> 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



## **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.



*"Year after year, the Bay County Health Department has consistently provided excellent health services to the citizens of Bay County. In these challenging financial times, the remarkable staff at the Bay County Health Department has found innovative and creative ways to continually provide efficient, customer and taxpayer-focused public services that improve the quality of life for our residents."  
~ Thomas Hickner, Bay County Executive*



*"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 2010 Bay County Health Department Annual report bears this out. Health Director Barbara MacGregor, and her 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 service to our community.  
~Donald Tilley, Chairman  
Bay County Board of Commissioners*

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**A Message from the Bay County Health Department Medical Director,  
Kirk H. Herrick, D.O.:**

Public Health in Bay County, as seen by the Medical Director of the Bay County Health Department is best described by quoting Charles E.A. Winslow, who in 1920 defined public health as: “The science and art of preventing disease, prolonging life and promoting health through the organized and informed choices of society, organizations, public and private, communities and individuals.” I am proud to say for the past year I have been the medical director of an organization that meets this definition in every way.

**A Message from the Bay County Health Department Public Health Officer/Director  
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 2010 Bay County Department of Community Health Annual Report. The Annual Report provides an overall picture of the quality programs and services the Health Department delivers to the citizens of Bay County.

The staff of the Bay County Health Department and our many community partners work together 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 this Department are done behind the scenes with the primary focus of preventing disease or conditions that may cause disease, disability or injury. Because of this, many people do not recognize the important role public health plays in their daily lives.

Throughout the 2010 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 inspection and licensing of tattoo parlors, providing education to business owners about Michigan’s new Smoke-Free Law, offering education regarding safe consumption of wild game and fish caught in the Saginaw Bay, delivering immunizations to individuals without insurance through a special ARRA grant, 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.

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 to the dedicated and tireless work of the staff and partners of Bay County Health Department, in fulfilling this mission. 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](http://www.baycounty-mi.gov/Health).

Yours in good health,

A handwritten signature in black ink that reads "Barbara M. MacGregor". The signature is written in a cursive, flowing style.

Barbara M. MacGregor  
Health Officer

## 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. The Environmental Health Division is 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

	2008	2009	2010
<b>Fixed Food Establishment Inspections</b>	<b>605</b>	<b>680</b>	<b>657</b>
<b>Mobile, Vending &amp; Special Transitory Food Units, Temporary Food Establishment Inspections</b>	<b>96</b>	<b>144</b>	<b>164</b>
<b>Follow-up Inspections</b>	<b>73</b>	<b>63</b>	<b>56</b>
<b>Number of Plans Received for Review</b>	<b>15</b>	<b>13</b>	<b>8</b>
<b>Number of Plans Approved</b>	<b>17</b>	<b>76</b>	<b>6</b>
<b>Consumer Complaints Investigated</b>	<b>33</b>	<b>46</b>	<b>75</b>
<b>Food-borne Illness Complaints Investigated</b>	<b>5</b>	<b>6</b>	<b>1</b>
<b>Food-borne Illness Outbreaks</b>	<b>0</b>	<b>1</b>	<b>1</b>
<b>Administrative Action (office conference, informal conference, formal hearing, civil fines, orders)</b>	<b>5</b>	<b>6</b>	<b>5</b>

In 2009, approximately 187 confirmed cases of food-borne illnesses 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.<sup>1</sup>

## 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 assist persons who have concerns or problems with water quality.



### Private and Type III Public Ground Water Supply Program Data

	2008	2009	2010
<b>Number of Well Permits Issued</b>	81	84	68
<b>Number of Pre Drilling Site Reviews Completed</b>	45	48	55
<b>Number of Final Inspections of Newly Completed Water Well Systems</b>	64	43	43
<b>Number of Abandoned Wells Plugged</b>	57	50	54
<b>Number of Facility Swimming Pools/Spas Inspections Completed</b>	36	34	33

## 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

	2008	2009	2010
<b>Number of Parcels Evaluated</b>	173	87	226
<b>Number of On-Site Sewage Permits Issued</b>	78	66	40
<b>Number of Alternative/Engineered Systems Approved</b>	4	12	8
<b>Number of Complaints Investigated</b>	15	7	9

## Household Hazardous Waste Collection Program



In 2010, a total of 87 households participated in the Household Hazardous Waste Collection Program. Approximately 3,738 pounds of material were 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 2011.

## Michigan Smoke-Free Law

On May 1, 2010 Michigan joined the majority of other states in becoming smoke-free and protecting employees, residents, and visitors from the health risks associated with secondhand smoke exposure. The new law provides for smoke-free air in public places, including bars, restaurants, and hotels. In addition, under the new law, smoking is not allowed on patios and decks where service is intended and is also prohibited in enclosed areas of hotels, motels, and inns (including rooms). Cigar bars, tobacco specialty retail stores, and the gaming floors of casinos may be granted exemptions from the smoke-free law, if certain requirements are met. Compliance with the law is the responsibility of the owner, manager, or other person in charge of the establishment. The Bay County Health Department is responsible for the enforcement of the Smoke-Free Air Law in Bay County. Fines may be issued if an establishment is found to be allowing persons to smoke within smoke-free areas. Information and resources related to Michigan's Smoke-Free Air Law can be found at [www.michigan.gov/smokefreelaw](http://www.michigan.gov/smokefreelaw).



## Beach Monitoring and Kawkawlin River Sanitary Survey Program

For over twenty-five years, staff from the Bay County Health Department's Environmental Health Division have conducted the Bathing Beach/Surface Water Quality (BB/SWQ) Monitoring Program. The United States Environmental Protection Agency (USEPA) provides resources through the Michigan Department of Natural Resources and Environment (MDNRE) 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) 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.

In addition to the bacteriological water sampling program, staff members from the Health Department are working in conjunction with representatives from the MDNRE, National Oceanic and Atmospheric Administration (NOAA), and the University of Michigan on the development of a predictive model for Bay County beaches. The goal of the predictive model, once developed, will be to provide an accurate early warning of potentially unsafe conditions at a beach.

BCHD staff are also working with Saginaw Valley State University to implement a rapid testing method. Once implemented, the rapid testing method will reduce the delay time that currently occurs between the collection of the water sample and the completion of the test.

### 2010 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	42	0	0	0
2	Veteran's Park Bay City	42	0	0	0
3	Wenona Beach	42	0	0	0
4	Kawkawlin River	42	3	0	8
5	Bay City State Rec. Area	189	1	5	1
6	Brissette Beach	42	0	0	0
7	S. Linwood Beach	45	0	0	1
8	Pinconning Park	42	1	0	0
<b>Totals</b>		<b>486</b>	<b>5</b>	<b>5</b>	<b>10</b>

## 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.

ServSafe Data	2009	2010
Number of Participants	138	122
Number of Participants that Passed ServSafe Exam	136	119



## IMMUNIZATION PROGRAM

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, including: 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 who 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.

	DOSES ADMINISTERED IN 2008	DOSES ADMINISTERED IN 2009	DOSES ADMINISTERED IN 2010
DTaP	260	285	171
Td Adult Only	29	28	17
Tdap	250	303	517
Hib-Pedvax	265	374	385
Meningococcal Conjugate	233	256	459
Hep B (Pediatric)	37	24	24
Hep B (Adult)	141	204	44
IPV Dose	185	198	85
MMR	289	260	296
Varicella	359	342	630
Pneumococcal Conjugate	400	377	547
Hep A (Pediatric)	448	599	522
Hep A (Adult)	81	163	75
DTaP-Hep B-IPV	240	232	232
Influenza (seasonal)	763	1072	1169
H1N1 Novel	-	4022	437
Rotavirus	139	166	174
TB Testing	413	360	304
Zostavax	131	13	140
HPV	301	137	225
Pneumonia	-	-	55
<b>TOTAL</b>	<b>4969</b>	<b>9415</b>	<b>6418</b>

*“Complacency is perhaps the cardinal sin for those charged with protecting public health. Infectious diseases, once thought conquered, are always marshalling their forces ready to strike back in the face of reduced vigilance. Recent years have demonstrated the remarkable potential for nature to generate new threats particularly when major changes are taking place in the human habitat and in behaviour.”*

**Sir Liam Donaldson,**  
*Journal of the Royal Society for the  
Promotion of Health*

## American Recovery and Reinvestment Act (ARRA) Immunization Program

The Michigan Dept of Community Health (MDCH), Division of Immunization, received more than \$3.5 million in ARRA dollars to fund local health department immunization operations and infrastructure. An additional \$5.9 million was received by the MDCH to purchase needed vaccines. The Bay County Health Department utilized these ARRA funds to provide clinics to dispense specific vaccines to uninsured or underinsured adults aged 19 and older. Vaccines provided include: Tetanus, Diphtheria and Pertussis (Tdap), Measles, Mumps and Rubella (MMR), Varicella, Pneumonia, Hepatitis A and/or Hepatitis B, Human Papilloma Virus (HPV), and Zostavax (prevents Shingles). In addition to adult vaccines, the Health Department was authorized to expand the ARRA clinics to include children aged 11-18 who were in need of, but could not pay for, required vaccines for sixth grade entry and for those entering new school districts. These vaccines included: Tdap, Meningococcal (MCV4) and a second dose of Varicella.

Vaccine	Doses Administered in 2010
<b>Hep A-Hep B</b>	<b>153</b>
<b>HPV-quadrivalent</b>	<b>63</b>
<b>Influenza TIV Injectable</b>	<b>205</b>
<b>MCV4</b>	<b>145</b>
<b>PPSV23</b>	<b>36</b>
<b>Tdap</b>	<b>122</b>
<b>Varicella</b>	<b>107</b>
<b>Zoster Vaccine-live</b>	<b>128</b>
<b>Total ARRA Vaccine Doses Administered:</b>	<b>959</b>

### **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**

CLIENTELE	2008	2009	2010
<b>Number of Unduplicated Persons Receiving Services in Family Planning Clinic</b>	<b>1306</b>	<b>1253</b>	<b>1232</b>
<b>Number of Encounters in Family Planning Clinic</b>	<b>3097</b>	<b>2971</b>	<b>2462</b>
<b>Females Served</b>	<b>1303</b>	<b>1250</b>	<b>1228</b>
<b>Males Served</b>	<b>3</b>	<b>3</b>	<b>4</b>

## 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 Health Department and local community agencies. The WIC Clinic also partners with Michigan State University 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.



### WIC Program Data

	2009	2010
<b>WIC Base Caseload</b>	<b>2747</b>	<b>2989</b>
<b>Closeout Participation</b>	<b>2964</b>	<b>2989</b>
<b>% Closeout Participation to Base Caseload</b>	<b>108%</b>	<b>100%</b>
<b>WIC Program Appointments</b>		
<b>Certifications ( New Enrollees)</b>	<b>540</b>	<b>1838</b>
<b>Re-Certifications</b>	<b>3940</b>	<b>3774</b>
<b>Infant Evaluation</b>	<b>730</b>	<b>637</b>
<b>Registered Dietitian Assessments</b>	<b>312</b>	<b>425</b>
<b>Nutrition Education</b>	<b>1228</b>	<b>1547</b>
<b>Lead Screens</b>	<b>269</b>	<b>619</b>
<b>Project Fresh Coupons Issued</b>	<b>1543</b>	<b>1950</b>

In 2010, \$1,823,803.00 was spent in Bay County by WIC Program participants. These dollars greatly and positively affect our community's economy.

\*WIC data from is not included in this report due to the introduction of a new software program "MI-WIC", in 2009.



## **LABORATORY SERVICES**

The Bay County Health Department Laboratory provides a variety of diagnostic and analytical services 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 coliform, 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 Natural Resources and Environment (MDNRE) for water testing, and licensed for clinical analysis by the Clinical Laboratory Improvement Amendment (CLIA).

### **Laboratory Data**

<b>CLIENTELE</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>
<b>Number of Clients</b>	<b>4534</b>	<b>4763</b>	<b>4234</b>
<b>Number of Tests</b>	<b>6661</b>	<b>7083</b>	<b>5406</b>



## **EMERGENCY PREPAREDNESS and HEALTH EDUCATION DIVISION**



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

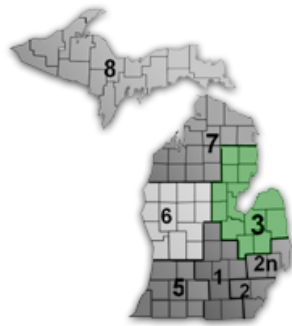
### **Emergency Preparedness and Response**

The Emergency Preparedness and Management Division underwent some changes in 2010. In March, the Division underwent a reorganization which resulted in the Emergency Manager position being relocated under the Central Dispatch Department. The Division also gained a new Health Educator, Julie Chamberlain-Wetters, to work in the Safe Fish and Wild Game Consumption Program. Julie represented the Health Department at several events throughout the County and provided outreach. Rachelle (Shotwell) Anderson continued her work as Community Health Educator for the Safe Fish and Wild Game Consumption Program and also performed duties associated with Pandemic Influenza Planning/Response, as well as the ARRA Smoke-Free Law activities. The first half of the year, Division staff members, along with other Health Department employees, continued work providing H1N1 vaccinations, as well as community education regarding H1N1 Influenza. In addition to persons coming to the Health Department to receive the H1N1 vaccine, staff members performed 41 mobile clinics at various locations within Bay County. These locations included schools, businesses, low-income and senior housing complexes, non-profit agencies and Delta College.

The Bay County Health Department also volunteered to participate in a Public Health Emergency Preparedness (PHEP) Biosurveillance Pilot Project led by the Centers for Disease Control and Prevention (CDC) and facilitated by the Michigan Department of Community Health (MDCH).

Overall, Division staff members provided several presentations in the community and participated in numerous health fairs to provide outreach on issues related to emergency preparedness, as well as basic hygiene methods (i.e. washing hands, covering coughs) to prevent disease transmission. Staff members attended planning meetings with local, regional, and state emergency preparedness partners and also attended training conferences, including the Great Lakes Homeland Security Training Conference and the Public Health Preparedness Summit.

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.<sup>1</sup>



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

Looking ahead to 2011, the Emergency Preparedness and Health Education 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.

### **Health Education and Outreach**

Several outreach and community collaborations took place during 2010. 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, tobacco prevention, and general hygiene/hand washing presentations to staff, community groups, and schools.



*(L-R) Kory Groetsch (MDCH Toxicologist), Rachelle Anderson (Health Educator), Joel Strasz, (Public Health Services Manager), Julie Chamberlain-Wetters (Health Educator) Staff received an award from the MDCH for outstanding work under the Safe Fish and Wild Game Consumption Grant Program.*



## **BAY 3 TV PROGRAMMING**

Bay County Health Department utilizes Bay County's public 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:

- Bay County Health Department presents: Unnatural Causes
- Children's Special Health Care Services (CSHCS) Program: CSHCS Program Awareness
- Communicable Disease Program/Emergency Preparedness/Administration: H1N1 Influenza Education
- Communicable Disease Program: How to Prevent and Treat Head Lice; How to Prevent Colds/Flu
- Emergency Management Program: Winter/Spring Severe Weather Awareness
- Emergency Management Program: Disaster Preparedness / Emergency Preparedness
- Environmental Health Division: Environmental Health Program Overview; Phosphorus Fertilizer Ban Discussion; Backyard Food Safety
- Family Planning: General Clinic Overview
- Health Screening Program: Program Overview; Various programs regarding Hepatitis and other sexually transmitted diseases (Prevention and Treatment)
- Hearing and Vision Program: Hearing and Vision Program Awareness/Overview
- Immunization Clinic: Back-to-School Round-up
- Immunization Clinic: Fall 2010 Flu Vaccine and Clinic Information
- Maternal Infant Health Program : MIHP Overview of Services; Infant Safe Sleep
- Public Health Week Awareness
- Smoke-Free Law Information
- WIC Program: MI-WIC, Food Package Changes, Project Fresh, EBT Transition, New Income Guidelines and Breastfeeding

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

- Bay County Public School Academy Community Carnival
- Emergency Medical Services Open House
- Community Baby Shower
- Boys and Girls Club Health and Safety Fair
- Back to School Health Round Up held at the Pinconning Boys and Girls Club
- Tuberculin Skin Tests provided to Hampton Fire Department
- Bay County Project Connect
- EPA Booth at the All About Women's Expo
- SVSU Nursing Program
- Bay City Public Schools 20 Minutes- a -Day program
- Bay Area Breastfeeding Coalition Annual Walk





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)

2008		2009		2010	
Plan A	Plan B	Plan A	Plan B	Plan A	Plan B
6,790	9,293	7,312	6,296	5,653	7,642

\* **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 and 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 and Public Health Nurse.

CLIENTELE	2008	2009	2010
Number of New Enrollees (Maternal)	164	135	109
Number of New Enrollees (Infant)	110	135	111
Number of Maternal Screenings	249	152	111

#### Bay County Natality Trends

Natality	2009
Live Births	1,184
Teenage Mothers	127
Low Weight Births	104
Under 1,500 Grams	12
Less Than 38 Weeks Gestation	129
Prenatal Care Began in First Trimester	933
First Births	495
Infant 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.

### **2008-2010 Bay County Reportable Communicable Disease Statistics From the Michigan Disease Surveillance System (MDSS)**

<b>DISEASE</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>
<b>FOODBORNE DISEASE GROUP</b>			
<b>Campylobacter</b>	6	9	4
<b>Giardiasis</b>	7	3	0
<b>Listeriosis</b>	-0-	-0-	2
<b>Salmonellosis</b>	9	12	2
<b>MENINGITIS DISEASE GROUP</b>			
<b>Aseptic Meningitis</b>	13	10	9
<b>Bacterial Meningitis</b>	-0-	1	1
<b>OTHER DISEASE GROUP</b>			
<b>Animal Bite</b>	178	237	207
<b>Botulism – Infant</b>	-0-	-0-	0
<b>Coccidioidomycosis</b>	-0-	1	0
<b>Cryptococcosis</b>	1	-0-	0
<b>Guillain-Barre Syndrome</b>	-0-	-0-	0
<b>Influenza, Novel H1N1 (confirmed cases)</b>		23	0
<b>Legionellosis</b>	2	2	0
<b>Streptococcal Dis. Inv. Group A</b>	1	1	1
<b>STD GROUP</b>			
<b>Chlamydia</b>	257	305	289
<b>Gonorrhea</b>	35	38	38
<b>Syphilis</b>	2	-0-	3
<b>VACCINE PREVENTABLE DISEASE GROUP</b>			
<b>Varicella</b>	41	18	8
<b>Mumps</b>	1	-0-	0
<b>Pertussis</b>	-0-	9	20
<b>VIRAL HEPATITIS</b>			
<b>Hepatitis B (Acute)</b>	-0-	1	1
<b>Hepatitis B (Chronic)</b>	1	1	4
<b>Hepatitis C (Acute)</b>	-0-	14	1
<b>Hepatitis C (Chronic)</b>	31	43	42

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 (STDs) and infections (STIs), 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.<sup>1</sup>

### **Health Screening Program Data**

<b>CLIENTELE</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>
<b>Clients tested for Sexually Transmitted Diseases (STD)</b>	<b>646</b>	<b>599</b>	<b>457</b>
<b>Clients tested for Human Immunodeficiency Virus (HIV)</b>	<b>432</b>	<b>426</b>	<b>295</b>

## HEARING and VISION SCREENING PROGRAM

The Hearing & Vision Program provides screening by certified technicians in all Bay County schools, Day Cares, and Head Start/Preschools. The Bay County Health Department provides free vision and hearing screenings for children, as required by Michigan's Public Health Code. The goal is to identify hearing or vision defects as early as possible. 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.<sup>1</sup>



### **Hearing and Vision Screening Data**

<b>CLIENTELE</b>	<b>2008/ 2009 (Vision)</b>	<b>2008/2009 (Hearing)</b>	<b>2009/ 2010 (Vision)</b>	<b>2009/2010 (Hearing)</b>
<b>Preschool aged children screened</b>	<b>1247</b>	<b>1268</b>	<b>1095</b>	<b>1130</b>
<b>Special education students</b>	<b>255</b>	<b>245</b>	<b>239</b>	<b>191</b>
<b>School age</b>	<b>6579</b>	<b>4369</b>	<b>6173</b>	<b>4273</b>
<b>Total</b>	<b>8081</b>	<b>5882</b>	<b>7507</b>	<b>5594</b>

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

## **CHILDREN'S SPECIAL HEALTH CARE SERVICES (CSHCS)**

The Children's Special Health Care Services Program was established in 1935 and mandated by Title V of the Social Security Act. It was created to find, diagnose, and treat children in Michigan who have chronic, physically disabling conditions requiring specialty care and to remove barriers to receiving that specialty care. CSHCS serves children from birth to age 21 who have a qualifying medical diagnosis (over 2000 covered diagnoses). Persons aged 21 and over with Cystic Fibrosis (CF) or certain blood disorders (hemophilia) may also qualify for services. This program provides case management, care coordination, and referrals for specialty care or community-based services, for children and families in Bay County. Families are assisted with obtaining medical records from specialists, with the enrollment and renewal process, authorization of diagnostic evaluations, mileage reimbursement, and transportation to medical appointments. The CSHCS staff assists families with billing issues, prior authorization for medical equipment, medications, physical therapy, speech therapy, and occupational therapy.



*Judy McGee, CSHCS Representative  
Mary Jo Braman, CSHCS Nurse*

### **CSHCS Program Data**

	<b>2008</b>	<b>2009</b>	<b>2010</b>
<b>Number of Families Served</b>	<b>275</b>	<b>268</b>	<b>271</b>
<b>Level I Plan of Care</b>	<b>79</b>	<b>46</b>	<b>48</b>
<b>Level II Care Coordination</b>	<b>29 units</b>	<b>41 units</b>	<b>45 units</b>
<b>Case Management Services</b>	<b>41</b>	<b>16</b>	<b>28</b>

## **LEAD EDUCATION and SCREENING PROGRAM**

For children whose Blood Lead Levels (BLL) are at or above 10 micrograms per deciliter (mg/dl) of blood, a Public Health Nurse will refer those children to their physicians for a confirmatory lead test. For those whose confirmatory tests resulted in same or higher lead levels, those families were contacted by a Public Health Nurse, who provided follow-up lead information. For children whose BLL exceeded 20 mg/dl, a home visit was made by an Environmental Health Division Elevated Blood Lead (EBL) Investigator/Risk Assessor and a Public Health Nurse.

### **Bay County Lead Screening Data**

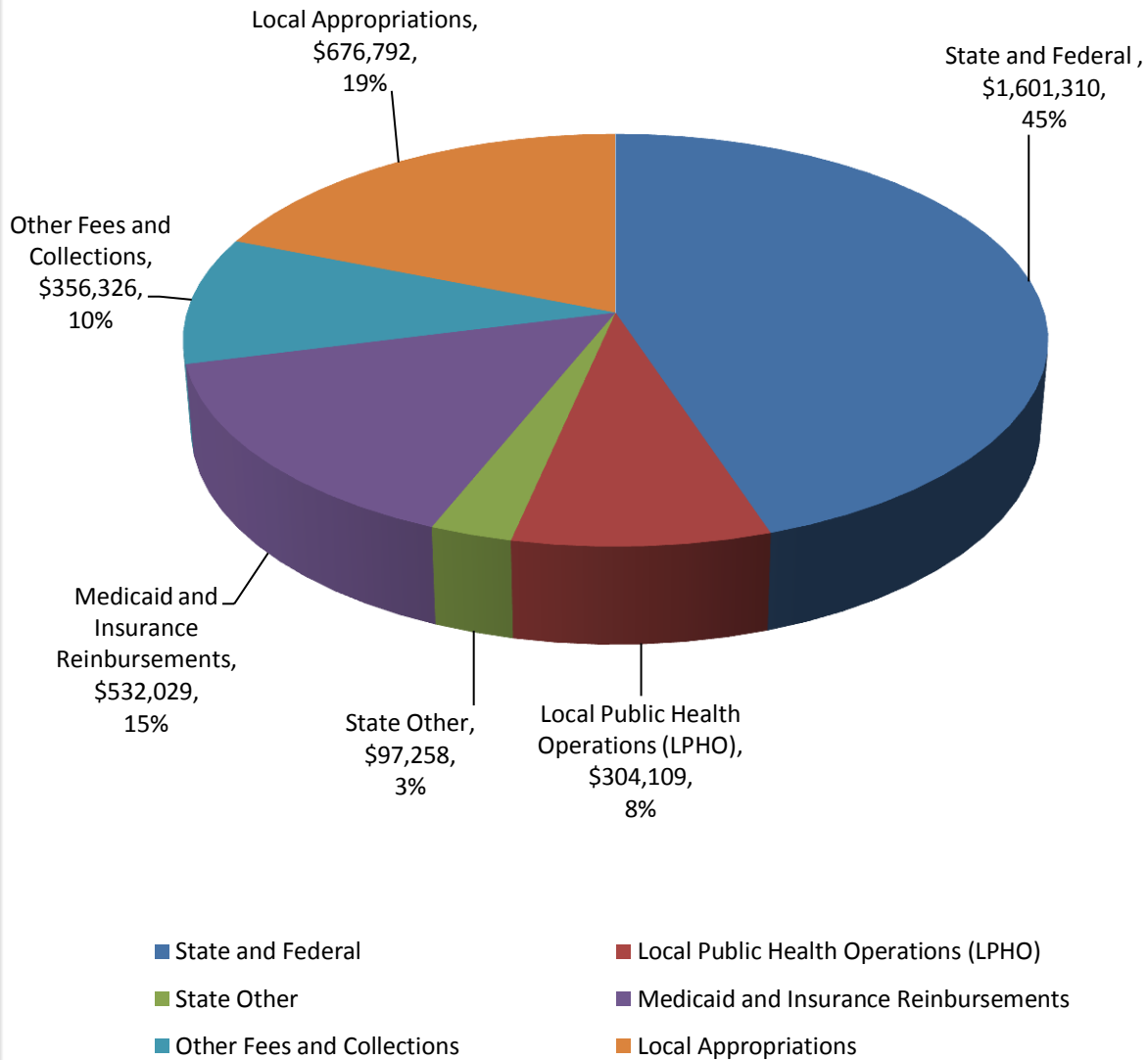
	<b>2008</b>	<b>2009</b>	<b>2010</b>
<b>Number of home visits due to BLL exceeding 20 mg/dl</b>	<b>1</b>	<b>12</b>	<b>3</b>
<b>Number of families contacted due to BLL exceeding 10 mg/dl</b>	<b>16</b>	<b>21</b>	<b>10</b>

## **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.

<b>Autopsied Deaths Dr. Howard Hurt, Medical Examiner</b>			
<b>AGE</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>
<b>0-10 yrs.</b>	<b>3</b>	<b>4</b>	<b>1</b>
<b>11-20 yrs.</b>	<b>2</b>	<b>3</b>	<b>5</b>
<b>21-30 yrs.</b>	<b>8</b>	<b>11</b>	<b>7</b>
<b>31-40 yrs.</b>	<b>8</b>	<b>8</b>	<b>8</b>
<b>41-50 yrs.</b>	<b>22</b>	<b>23</b>	<b>17</b>
<b>51-60 yrs.</b>	<b>17</b>	<b>13</b>	<b>25</b>
<b>61-70 yrs.</b>	<b>6</b>	<b>10</b>	<b>7</b>
<b>71+</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>Total:</b>	<b>70</b>	<b>77</b>	<b>76</b>
<b>GENDER</b>			
<b>Male</b>	<b>23</b>	<b>52</b>	<b>53</b>
<b>Female</b>	<b>47</b>	<b>25</b>	<b>23</b>
<b>CAUSE OF DEATH</b>			
<b>Cardiovascular</b>	<b>17</b>	<b>24</b>	<b>22</b>
<b>Alcoholic (Liver Disease)</b>	<b>3</b>	<b>6</b>	<b>3</b>
<b>Homicide (Blunt Force Trauma)</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>Auto Accident (Blunt Force Trauma)</b>	<b>7</b>	<b>7</b>	<b>-</b>
<b>Hanging (Suicide)</b>	<b>2</b>	<b>2</b>	<b>-</b>
<b>Gunshot (Suicide)</b>	<b>5</b>	<b>1</b>	<b>-</b>
<b>Carbon Monoxide (Suicide)</b>	<b>1</b>	<b>-</b>	<b>-</b>
<b>Drug Overdose (Suicide)</b>	<b>2</b>	<b>1</b>	<b>14</b>
<b>MANNER OF DEATH</b>			
<b>Homicide</b>	<b>3</b>	<b>2</b>	<b>1</b>
<b>Accidental</b>	<b>11</b>	<b>21</b>	<b>18</b>
<b>Positional Asphyxia</b>	<b>2</b>	<b>-</b>	<b>-</b>
<b>Indeterminate</b>	<b>-</b>	<b>13</b>	<b>17</b>
<b>Miscellaneous</b>	<b>14</b>	<b>2</b>	<b>-</b>
<b>ALCOHOL / DRUG INVOLVED</b>			
<b>Alcohol</b>	<b>9</b>	<b>12</b>	<b>8</b>
<b>Cocaine</b>	<b>4</b>	<b>3</b>	<b>3</b>
<b>Oxycodone</b>	<b>3</b>	<b>2</b>	<b>-</b>
<b>Hydrocodone</b>	<b>8</b>	<b>1</b>	<b>4</b>
<b>Morphine</b>	<b>3</b>	<b>2</b>	<b>2</b>
<b>Methadone</b>	<b>4</b>	<b>6</b>	<b>5</b>
<b>Amphetamine</b>	<b>-</b>	<b>1</b>	<b>2</b>
<b>Cannabis</b>	<b>2</b>	<b>1</b>	<b>1</b>

## Bay County Health Department Fiscal Year End 9/30/2010 Revenues

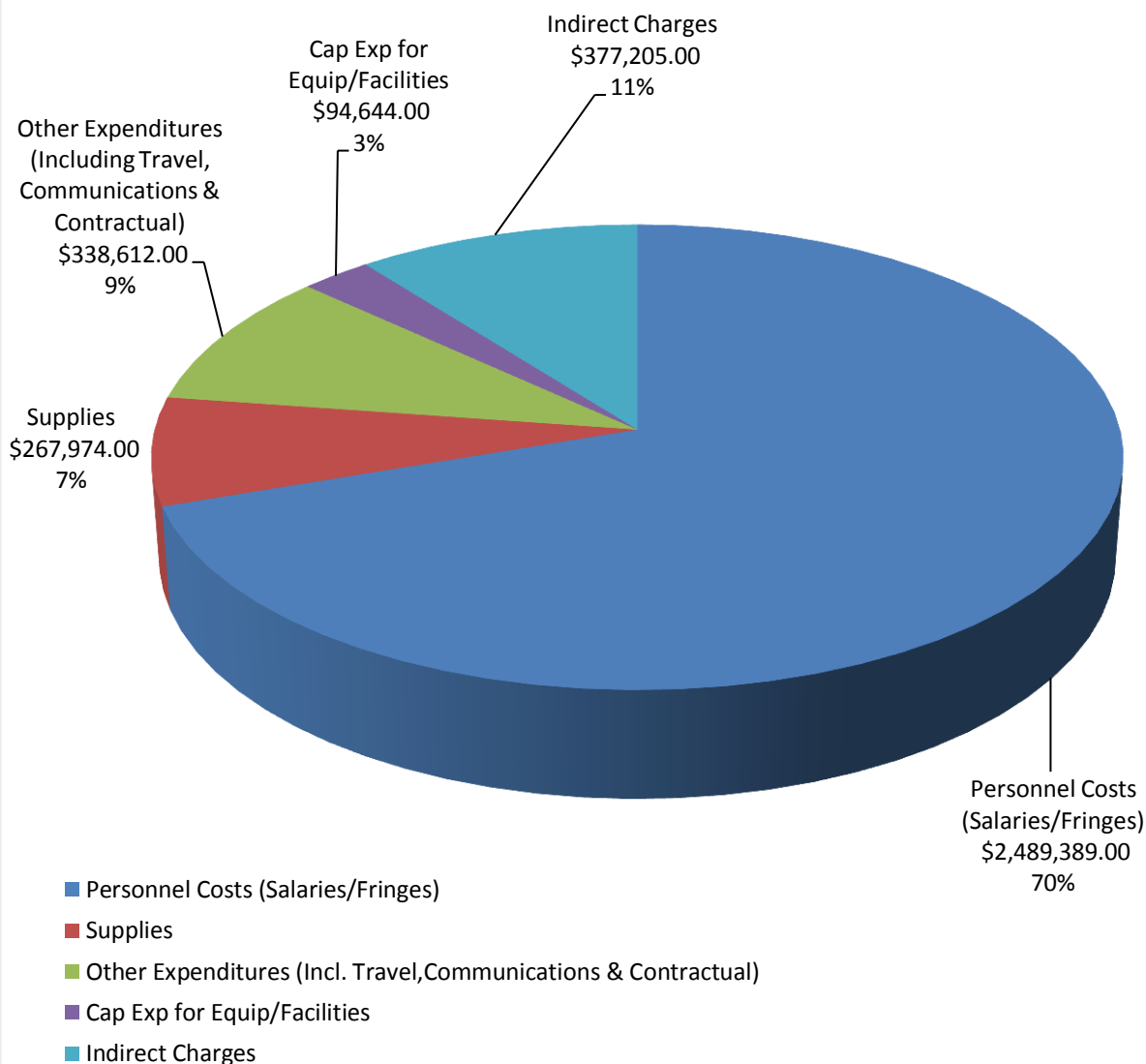


### Health Department Revenue

<b>State and Federal</b>	<b>\$ 1,601,310.00</b>
<b>State Local Public Health Operations (LPHO)</b>	<b>\$ 304,109.00</b>
<b>State Other</b>	<b>\$ 97,258.00</b>
<b>Medicare and Medicaid Fees</b>	<b>\$ 532,029.00</b>
<b>Other Fees and Collections</b>	<b>\$ 356,326.00</b>
<b>Local Appropriations</b>	<b><u>\$676,792.00</u></b>
<b>Total Revenues</b>	<b>\$3,567,824.00</b>

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

## Bay County Health Department Fiscal Year End 9/30/2010 Expenditures



### Health Department Expenditures

Personnel Costs (Salaries/Fringes)	\$ 2,489,389.00
Supplies	\$ 267,974.00*
Other Expenditures (Incl. Travel, Communications & Contractual)	\$ 338,612.00
Cap Exp for Equip/Facilities	\$ 94,644.00
Indirect Charges	\$ 377,205.00
<b>Total Expenditures</b>	<b>\$ 3,567,824.00</b>

**Per Capita Spending: \$33.34**

*\*Includes value of Federally Funded Vaccines amount of \$124,819*

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



**DIVISION ON AGING (DOA)**

**Services Provided Fiscal Year October 1, 2009– September 30, 2010**



The 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, are financed by the Bay County Senior Millage and client fees: Wonderful Times Newsletter, Volunteer Program, Handyman Service, special events, Senior Olympics, Information and Referral. Other grant programs include: Caregiver Education, Respite Care, and Exercise Program.

*Rebecca Reimann, Division on Aging Director*

<b>SUPPORT SERVICES - HOURS</b>									
Program	Total Clients	AAA Contract	* Waiver	Tobacco Settlement	VA	Care Mgmt.	Dept. of Human Services	Senior Millage	Total Hours
Case Coordination and Support	1,141	6,049	-0-	-0-	-0-	-0-	-0-	-0-	6,049
Caregiver Training	58	492.5	-0-	-0-	-0-	-0-	-0-	-0-	492.5
Exercise Program	71	1,085.5	-0-	-0-	-0-	-0-	-0-	-0-	1,085.5
Homemaking	248	7,906.25	85.5	-0-	-0-	115.5	366	-0-	8,473.25
Respite Care	21	245	-0-	215.5	-0-	-0-	-0-	-0-	460.5
Personal Care	101	964	-0-	0	1.5	33	520.65	2,103.25	3,662.4

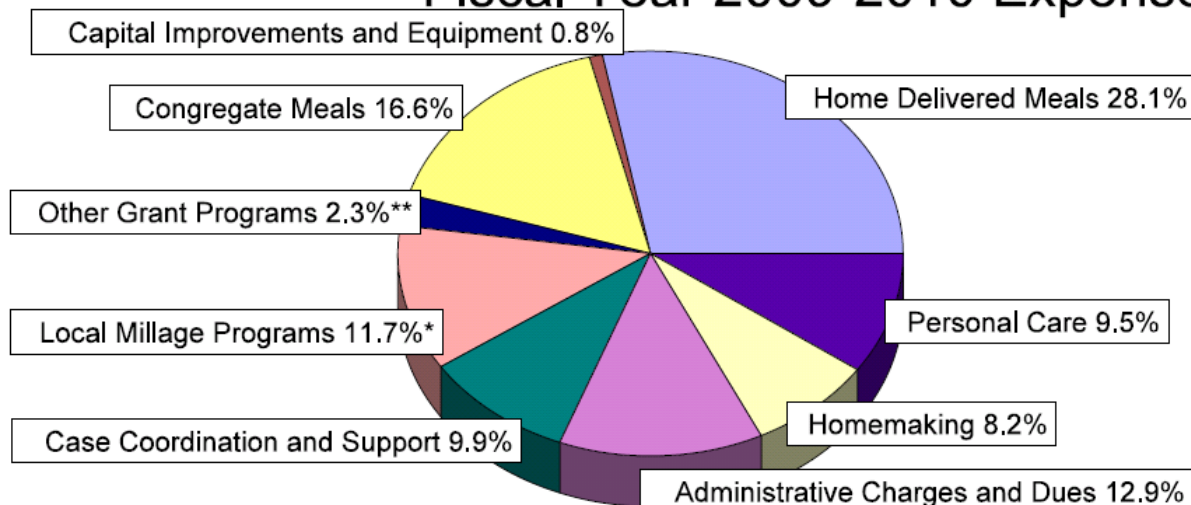
\* Service units converted to hours

<b>MEAL SERVICES</b>							
Program	Total Clients	*ARRA Meals	AAA Contract Meals	Waiver Meals	NSIP	Millage	Total Meals
Congregate Nutrition	464	11 ,076	30,251	-0-	1,997	-0-	43,324
Home Delivered Meals	1,006	4,258	116,438	15,369	-0-	-0-	136,065

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

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

## Fiscal Year 2009-2010 Expenses



\*Local Millage Programs include: Wonderful Times newsletter, Volunteer program, special events, Olympic Games, and Information and Referral

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

### SOURCES OF INCOME

Source	Amount	Percentage
Senior Millage Fund	\$1,382,213	56.0
Region VII Area Agency on Aging Grants/ARRA***	537,453	21.8
Client Contributions	264,295	10.7
NSIP****	131,131	5.3
Medicaid Waiver	84,506	3.4
Other Income/Rebates	22,286	1.0
Client Fees	28,115	1.1
Tobacco Settlement Funds	2,783	0.1
General Fund	6,200	0.2
Department of Human Services	10,271	0.4
<b>Total</b>	<b>\$2,469,253</b>	<b>100</b>

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

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