



Bay County Health Department

2012 Annual Report



Design/ Editor Tracy Metcalfe
Bay County Health Department

Public Health Services

Health Promotion
Health Protection
Disease Prevention

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www.baycounty-mi.gov/Health

Bay County Profile (2011)

Population 107,110
Births 1,137
Deaths 1,114 (2010)

Race

White 97,982
Black 2,565
Native American 774
Asian 696
Hispanic 5,093

Gender

Male 52,506
Female 54,604

Age

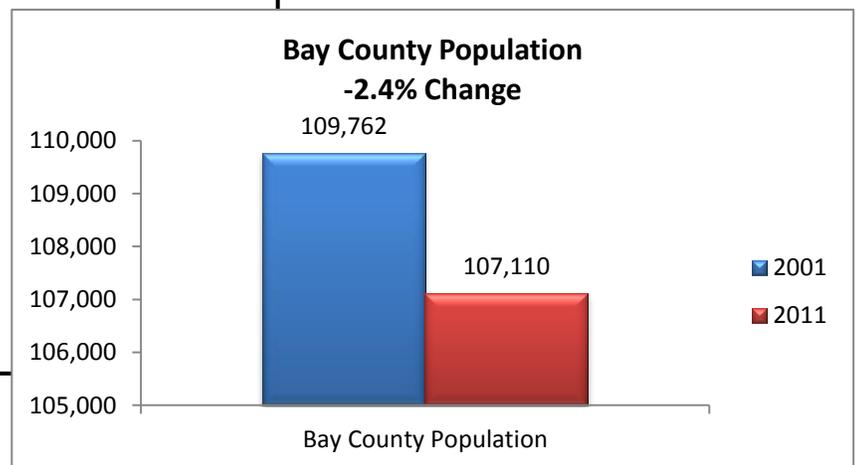
Under 18 23,315
18-64 66,048
65 + 17,747

Leading Causes of Death (Crude Numbers from 2010)

Heart Disease 372
Cancer 246
Chronic Lower Respiratory Disease 90
Stroke 53
Alzheimer's 40
Unintentional Injury 31
Diabetes 27
Kidney Disease 21
Intentional Self-harm (Suicide) 15
Pneumonia & Influenza 14

Unemployment Rate

9.4
(As of January 2013— Bureau of Labor Statistics)



This report highlights public health services indicators for the year 2012. 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



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.



"Quality health services continue to be provided to our community through the Bay County Health Department. Exceptional programs and care offered to the citizens of Bay County assure we continue to work toward enhancing the quality of life in our area. My sincere congratulations to the administration and staff of the Bay County Health Department for once again stepping forward to accept this important challenge.

~ Tom Hickner, Bay County Executive

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.

"On behalf of the Bay County Board of Commissioners I wish to convey to the residents of Bay County that they should be very secure in the knowledge that the Bay County Health Department goes above and beyond the call of duty in providing valuable programs and services to the members of our community. The citizens of Bay County deserve the best health services that can be provided and the Director and staff of the Bay County Health Department proudly work very hard to deliver those services in a professional manner. Given ever diminishing financial resources and continuing funding reductions, the Bay County Health Department must be commended for their successful efforts to live up to their reputation as one of the best Health Departments in the State of Michigan. This is reflected in the 2012 Bay County Department of Community Health Annual Report."

~Kim Coonan, Board of Commissioners Chairman



A Message from the Management and Staff of the Bay County Health Department

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

We are pleased to present the 2012 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 regarding health issues, and to provide healthy solutions in order to advance our community's health. Many of the activities performed by this Department occur 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 2012 Annual Report, you will see how the Health Department collaborated with community, state and federal partners to provide many services. These include:

- Inspection and licensing of body art and pawnshops
- Education regarding safe consumption of wild game and fish caught in the Saginaw Bay
- Delivering immunizations to uninsured and under-insured individuals
- Providing in-depth research and evaluation of local surface waters and beaches, including an innovative daily forecast of the Bay City State Recreation Area Beach
- Collection and disposal of household hazardous wastes
- Investigation of communicable and food-borne illness outbreaks

In 2012 the Bay County Health Department continued to partner with McLaren Bay Region, the Bay Health Plan and Bay Arenac Behavioral Health Association, on our Community Health Assessment. The Community Health Assessment looks at demographic, economic, education and health status trends of Bay County residents. Additionally, we conducted a telephone survey of County residents regarding health behaviors and community needs and held several focus groups around these same issues.

In 2013, a forthcoming Community Health Improvement Plan will help us effectively provide services that truly meet the needs of Bay County residents.

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. We 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.

Yours in Good Health,

The Management and Staff of the Bay County Health Department

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EMERGENCY PREPAREDNESS & HEALTH EDUCATION DIVISION
Melissa Maillette, Emergency Preparedness & Health Education Division Manager

The Michigan Department of Community Health, Health Preparedness Planning Section, is comprised of eight coalitions. These coalitions work with local partners within each region to prepare hospitals, emergency medical services, and supporting healthcare organizations to deliver coordinated and effective care to victims of terrorism and other public health/healthcare emergencies. Bay County is part of Region 3 of the Healthcare Preparedness Network (HPN).



The staff of the Emergency Preparedness and Health Education (EP&HE) Division had a very busy year. This Division gained a new Health Educator, Melanie Perry. Ms. Perry works with the Eat Safe Fish and Wild Game program. She provided education within the community at community events and presentations at schools to educate individuals on the safe consumption of fish from our local area.

Emergency Preparedness

Health Department staff participated in the Bay County Tabletop Exercise and Debrief facilitated by Bay County Emergency Management. The exercise scenario involved an intentional anthrax attack on a long-term care facility. The facility was evacuated and patients and contacts treated. Through this exercise, BCHD was able to simulate activating response plans, coordination with planning partners, and establishing a Strategic National Stockpile (SNS) distribution node and dispensing site.

In June, BCHD underwent two on-site evaluation visits from the Michigan Department of Community Health, Office of Public Health Preparedness (MDCH-OPHP). The MDCH-OPHP performed a sub-recipient monitoring visit, as well as a SNS evaluation visit. BCHD met both Federal and State program requirements.

Health Education and Community Outreach

Building upon 2012’s education and outreach activities, the Health Education Team, provided more than 50 health education presentations and participated in 30 outreach events. Presentations included:

- Safe Game and Fish Consumption Education
- Bay County Community Baby Shower
- HeadStart Family Fun Day
- Delta College’s 50+ Health for Life Expo
- Bay County Farmers Market
- Bay County Project Connect
- McLaren Bay Region (formerly Bay Regional Medical Center) Halloween and Safety Program
- Great Start Day at the Zoo
- NAACP Better Health, Health Fair



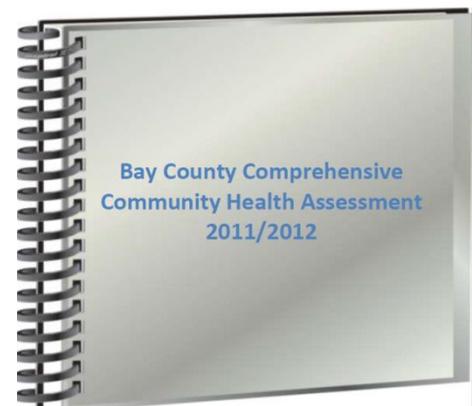
- Back to School Health Round Ups
- YMCA Health and Wellness Fair
- Charter Health/Benefits Fair

In addition to education and outreach activities, Community Health Educators participated in training webinars, teleconferences and meetings. Staff also coordinated Cardiopulmonary Resuscitation and Automated External Defibrillator re-certification training for BCHD employees.

2011 Bay 3TV Videos/Presentations	
Community Health Assessment Presentations to the Board of Commissioners	Making the Right Choice
Bay Health Alerts Information and Outreach	Maternal Infant Health Program Information
Educate Yourself, Protect Yourself	Reality Matters: Sex and STD's
Hearing and Vision Department Information	Taking Charge of Your Life Video
Hepatitis and Your Liver	Unnatural Causes
In the Swim of Things Video	Warning Signs of a Stroke
It's in Your Hands	Water Sampling: Start to Finish
Jamie Foxx HIV/AIDS PSA	WIC Cooking Class
Lice Prevention Information	

Bay County Community Health Assessment

In late 2011, the Bay County Health Department received funding from the Bay Area Community Foundation and partnered with McLaren Bay Region, Bay Health Plan and Bay Arenac Behavioral Health, to conduct a countywide Community Health Assessment (CHA). The CHA consisted of a phone survey, focus groups, an online survey and a collection of existing data. The results of the CHA are available on the Health Departments webpage at www.baycounty-mi.gov/health.



Bay County Community Health Improvement Plan

Upon completion of the CHA in April 2012, a Leadership Team, consisting of a number of community organizations, was established to begin the process of determining health priorities in Bay County. As a result of the CHA, four priority areas were identified:

1. **Access to Care:** Focusing on assisting residents in establishing a medical home (including dental and behavioral health), obtaining health insurance and establishing a system of common intake and referral.
2. **Behavioral Health:** Focusing on improving mental health among adults and youth and increasing resiliency in youth.

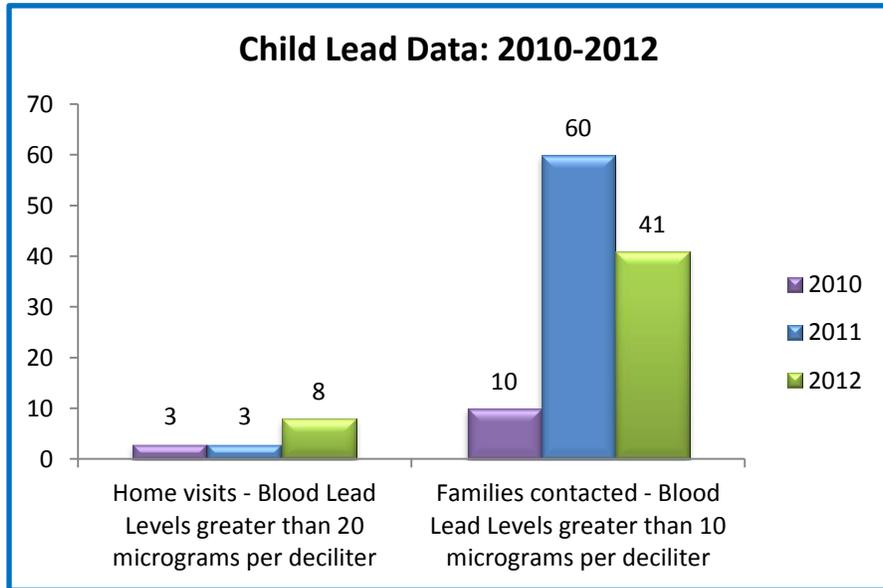
3. **Children's Health:** Focusing on reducing obesity, chronic disease and abuse and neglect in children.
4. **Chronic Diseases:** Focusing preventing and managing chronic disease in older adults.

The Bay County Health Department and the Healthy People Health Bay Leadership Team began coordinating a Community Meeting to be held in January 2013. During this meeting, the Leadership Team will update participants on the findings of the CHA, introduce the four priorities and provide an opportunity for community input.

MATERNAL & CHILD HEALTH SERVICES DIVISION
Kathy Janer, Maternal and Child Health Services Division Manager

Child Lead Education and Screening Program

Effective October 2012, as recommended by the CDC, expects will now use the blood lead level (BLL) of 5 microgram per deciliter (mcg/dl) or greater to identify children with elevated blood lead levels (EBLL). Up until then, children were identified as having an EBLL “of concern” if the test result was 10 mcg/dl or greater. This lower BLL threshold is to encourage parents and medical providers



to take action sooner to prevent further exposure by providing education to families on sources of lead in the environment and methods parents could practice to reduce or eliminate lead exposure for their child. The state continues to **recommend**, as local resources allow, a public health nurse (PHN) home visit and case management for children with EBLL equal to or greater than 10 mcg/dl, and **mandates** PHN and environmental health EBLL investigator for children with EBLL equal to or greater than 20 mcg/dl.

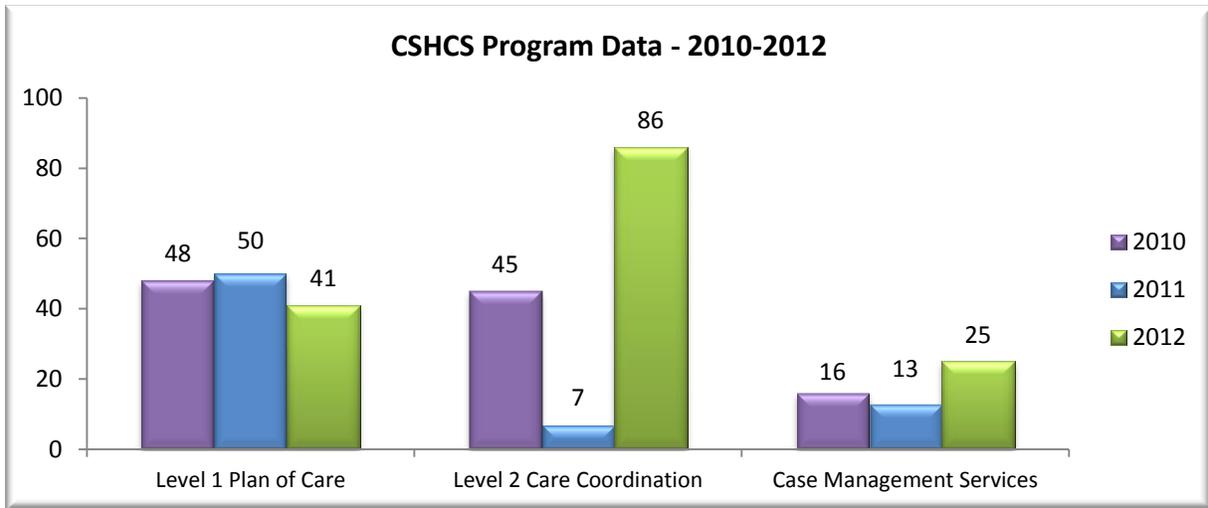
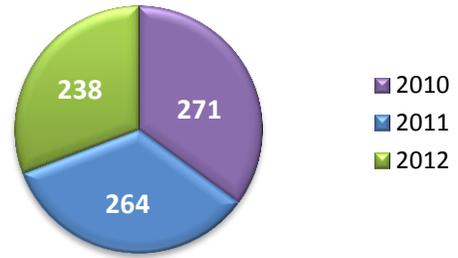
The BCHD continues to screen all children for EBLL through the WIC program at 1 and 2 years old. In addition, the BCHD Laboratory receives and completes referrals for lead screenings. Children who had an initial screening capillary BLL at or above 10 mg/dl of blood were directed to obtain a confirmatory test with a venous blood sample. For confirmatory results equal to or greater than 10 mcg/dl a Bay County Health Department PHN contacts the family to schedule a home visit to provide EBLL education, which includes information on sources of environmental lead and methods to reduce and/or eliminate further exposure to lead. Children whose BLL equaled or exceeded 20 mcg/dl, had a home visit by both a Public Health Nurse and an Environmental Health Elevated Blood Lead (EBL) Investigator/Risk Assessor.

Currently in Bay County there are 11 children being followed for history of EBLL. This follow up includes reminder calls to family to have repeat BLL testing done at recommended intervals until a child’s BLL returns to less than 10 micrograms/dl. In 2012, 8 children were opened by the PHN for EBLL of 10 mcg/dl or greater, of which 3 children had EBLL of 20 mcg/dl or greater. Six children were closed in 2012 to case management as their lead levels returned to normal.

Children’s Special Health Care Services (CSHCS)

The Children’s Special Health Care Services Program provides medical specialty care and assistance to children from birth to age 21 who have a qualifying medical diagnosis (over 2,000 covered diagnoses). Persons aged 21 and over with cystic fibrosis or certain blood disorders (hemophilia) may also qualify for services. This program provides case management, care coordination, and referrals for specialty care or community agency-based services, for children and families in Bay County. A Public Health Nurse provides each family with a Plan of Care annually and case management, when necessary.

CSHCS - Number of Families Enrolled



Hearing and Vision Program



The Bay County Health Department Hearing & Vision Program provides screening by certified technicians for all Bay County Schools (public, private and charter), Day Care Programs and Head Start Preschools. The program also provides free vision and hearing screenings for children prior to entering kindergarten, as required by the Michigan Public Health Code. Bay County

school children receive annual hearing tests in grades K, 2nd, 4th, and special education classrooms, and annual vision tests in grades 1st, 3rd, 5th, 7th, 9th. and special education classrooms. The Health Department’s goal is early identification of a hearing or vision impairment which leads to prompt and possibly preventative treatment, before the impairment could

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.

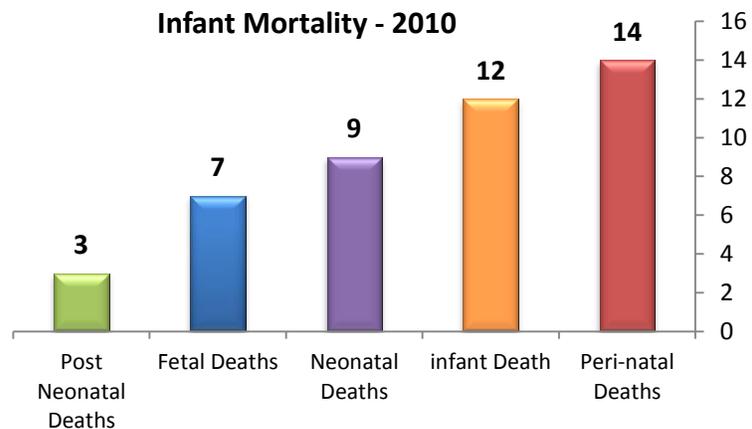
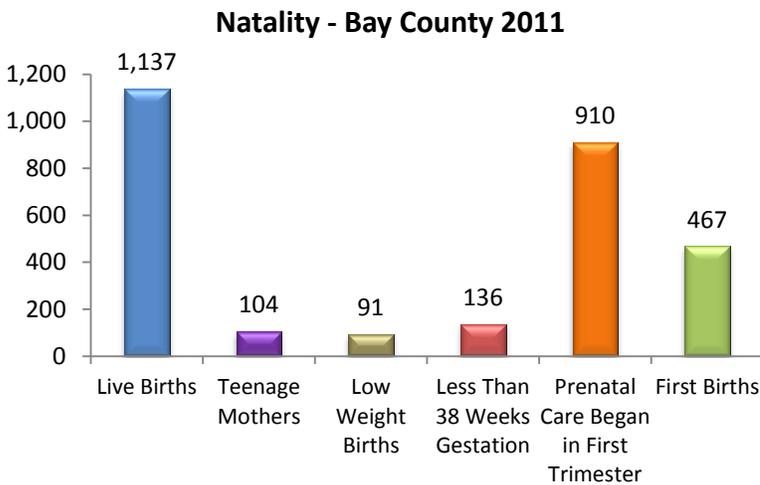
affect a child’s ability to learn.

Hearing and Vision Data:

	Vision		Hearing	
	2010/2011	2011/2012	2010/2011	2011/2012
Preschool aged Children	1,067	1,075	1,061	1,087
Special education students	248	217	176	30*
School age	6,542	6,404	3,941	3,994
Total	7,857	7,696	5,178	5,111

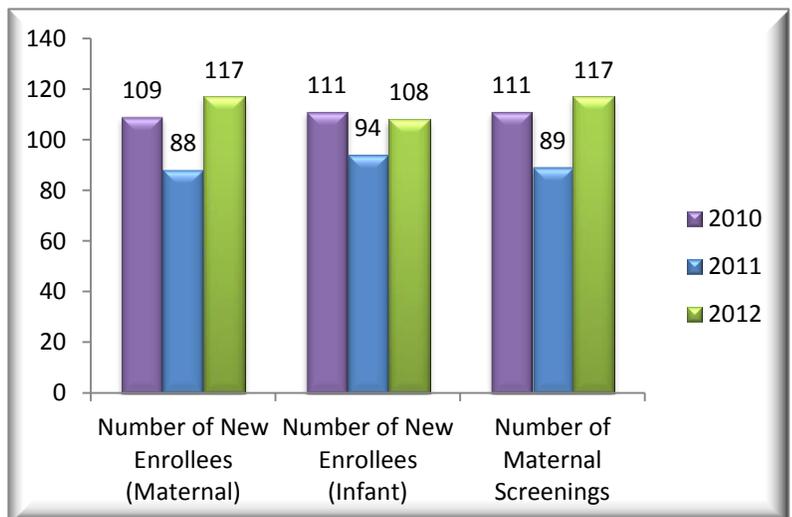
*The difference in Special Education stats in 2011/2012 is that most Special Education students have been main streamed this year.

Nativity Trends for Bay County:



Maternal Infant Health Program (MIHP)

The Maternal Infant Health Program (MIHP) is a voluntary, supportive, and educational program. It provides support to Medicaid-eligible pregnant women and families with infants, who 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 for education and referrals to community resources



Bay County Medical Examiner

Howard Hurt, D.O

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			
Dr. Howard Hurt, Medical Examiner			
AGE	2010	2011	2012
0-10 yrs.	1	5	4
11-20 yrs.	5	2	3
21-30 yrs.	7	11	8
31-40 yrs.	8	14	13
41-50 yrs.	17	19	15
51-60 yrs.	25	20	28
61-70 yrs.	7	13	8
71+	6	8	11
Total	76	92	90
GENDER			
Male	53	55	61
Female	23	37	29
CAUSE OF DEATH			
Blunt Force Trauma - Total	1	14	18
• Auto Accident	0	13	17
• Homicide	1	0	1 (Airplane Crash)
• Industrial	0	1	
Liver Disease	3	10	1
Homicide	1	0	1
Hanging	0	0	1
Heart	22	41	27
Drug Overdose	14	24	25
Gunshot	0	3	1
MANNER OF DEATH			
Accidental	18	21	20
Homicide	1	0	1
Indeterminate	17	24	25
Miscellaneous	0	0	16
Natural	0	40	40
Suicide	14	7	3
ALCOHOL / DRUG INVOLVED			
Alcohol	8	8	1
Amphetamine	2	0	0
Cannabis	1	0	0
Cocaine	3	0	2
Hydrocodone	4	8	7
Methadone	5	6	5
Morphine	2	2	4
Oxycodone	0	0	2
Fentanyl	0	0	4

Public Health Services

Joel Strasz, Public Health Services Manager

Communicable Disease Division

The goals of the Communicable Disease Division are to conduct disease surveillance activities, promptly investigate disease outbreaks and clusters, to provide case follow-up, completion and guidance to prevent disease transmission and to 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/infection control personnel; advise and educate health care providers regarding public health interventions; and disseminate health education messages to the community and media to enhance disease control efforts.

MICHIGAN DISEASE SURVEILLANCE SYSTEM (MDSS) Reportable Communicable Disease Statistics - 2009-2011			
DISEASE	2010	2011	2012
FOODBORNE DISEASE GROUP			
Campylobacter	4	4	5
Giardiasis	1	1	4
Listeriosis	2	1	1
Salmonellosis	2	10	10
MENINGITIS DISEASE GROUP			
Aseptic Meningitis	11	14	12
Bacterial Meningitis	2	1	3
OTHER DISEASE GROUP			
Animal Bite	209	238	158
Botulism – Infant	0	0	0
Coccidioidomycosis	0	2	1
Cryptococcosis	0	1	1
Guillain-Barre Syndrome	0	0	0
Influenza, Novel H1N1 (confirmed cases)	1	0	0
Legionellosis	0	1	1
Streptococcal Dis. Inv. Group A	1	2	0
STD GROUP			
Chlamydia	293	345	315
Gonorrhea	38	28	24
Syphilis	3	3	2
VACCINE PREVENTABLE DISEASE GROUP			
Varicella	14	12	14
Mumps	1	1	1
Pertussis	25	1	0
VIRAL HEPATITIS			
Hepatitis B (Acute)	2	2	1
Hepatitis B (Chronic)	6	8	9
Hepatitis C (Acute)	5	0	0
Hepatitis C (Chronic)	77	78	87

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.



Environmental Health Division

The Environmental Division of the Bay County Health Department 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.

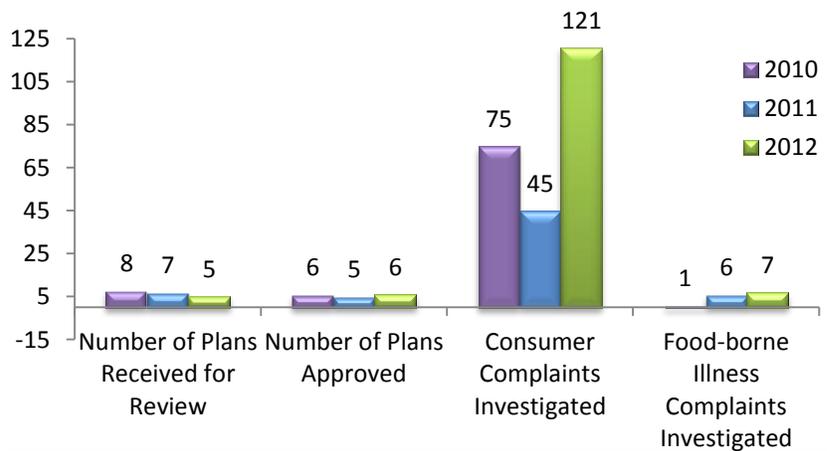
The Environmental Health Division of the Health Department consists of five Sanitarians and one Secretary. The Sanitarians are registered by the State of Michigan to provide the services of the Division.

Food Service Program:

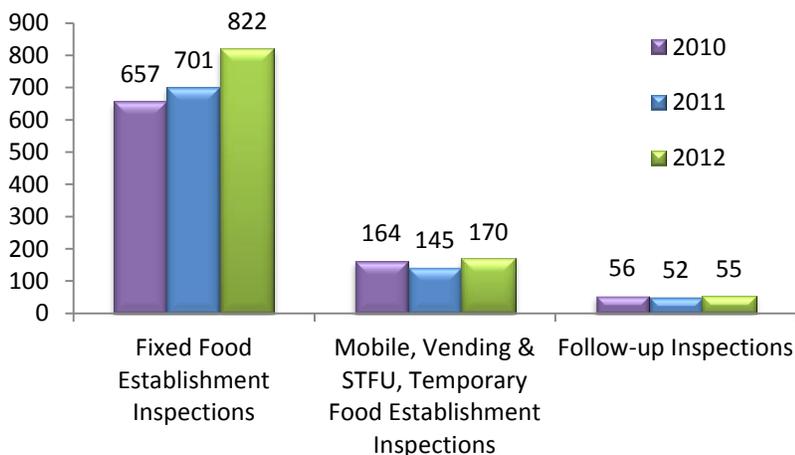
Food establishments and vending locations, which dispense food and drinks to the public, are routinely inspected by the Health Department. Sanitarians consult with food service operators and food service personnel on the safe handling and preparation of food. Education of the food service operator on 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 Action



Food Service Inspections



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



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.

ServeSafe Data

	2010	2011	2012
Number of Participants	122	56	67
Number of Participants that Passed ServSafe Exam	119	56	66

Household Hazardous Waste Collection Program:

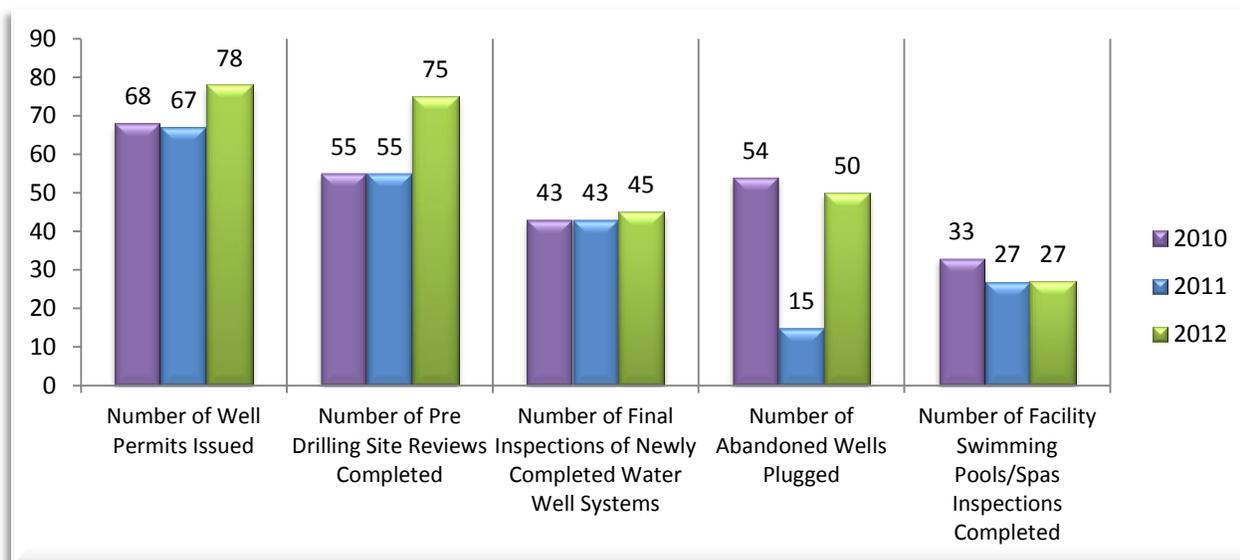
In 2012, over 200 households participated in the Household Hazardous Waste Collection Program. Approximately 9,000 pounds of material were collected and safely disposed of. The Household Hazardous Waste Collection Program gives Bay County residents a legal and cost-free way to dispose of unwanted household 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.



Private/Public Water Program:

Well permits are issued for homes and businesses that 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 and Type III Public Ground Water Supply Program Data



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.



2012 Bathing Beach/Surface Water Quality - Sample Analysis Summary

Station	Location of Sampling Station	Single-Day Sampling Events	Number of Exceedences	30-Day Sampling Events	Number of Exceedences
1	Saginaw River – South	15	1	11	0
2	Saginaw River – Bay City	15	0	11	0
3	Wenona Beach	54	2	44	0
4	Kawkawlin River	15	3	11	3
5	Bay City State Rec Area	54	0	50	0
6	Brissette Beach	54	4	44	0
7	S. Linwood Beach	54	4	44	0
8	Pinconning Park	54	2	44	0
Total		315	16	259	3

In addition to the bacteriological water sampling program, staff members from the Health Department have been working in conjunction with representatives from the Michigan Department of natural Resources and Environment (MDNRE), National Oceanic and Atmospheric Administration (NOAA), and the University of Michigan to develop a predictive model for the beach at Bay City State Recreation Area. The predictive model, which is now in its initial deployment, will be used to provide an accurate early warning of potentially unsafe conditions at a beach.

BCHD staff are also partnering with Saginaw Valley State University (SVSU) to implement a rapid testing method. In 2011, a Quantitative Polymerase Chain Reaction (qPCR) system was purchased and located at SVSU. Beginning in 2012, the rapid testing method will be used to reduce the delay time between when the samples are collected and test results are obtained. This is especially important when issuing beach closures due to elevated E-coli levels.

On-Site Sewage Program:

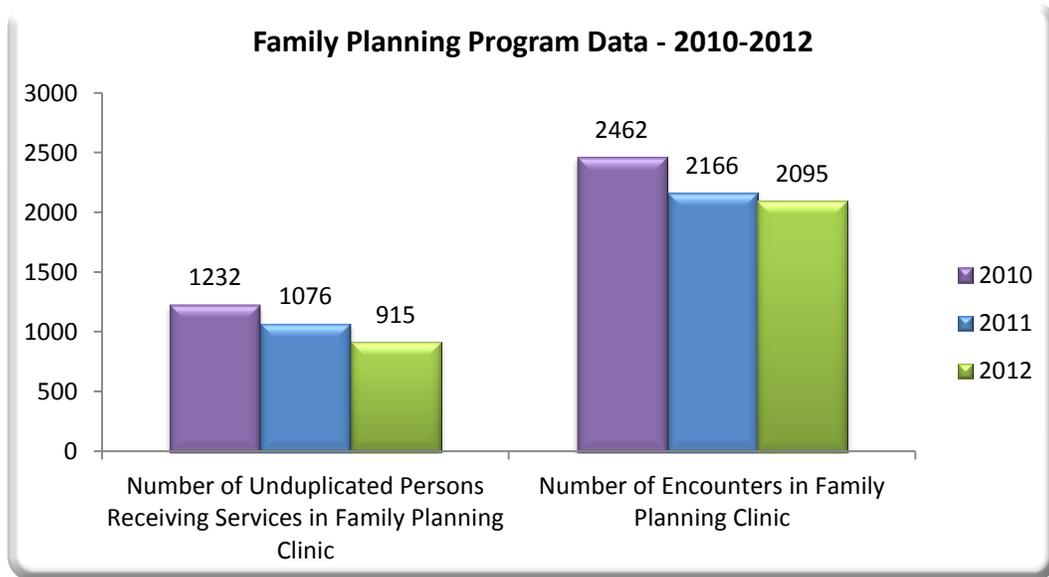
On-site sewage disposal permits are issued for homes and businesses that are not served by municipal sewer systems. Sanitarians conduct field evaluations to determine the suitability of conditions for on-site disposal of sewage. The Division reviews construction plans and consults with owners and engineers 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:

	2010	2011	2012
Number of Parcels Evaluated	226	307	263
Number of On-Site Sewage Disposal & Tank Permits Issued	40	97	62
Number of Alternative/Engineered Systems Approved	8	0	0
Number of Complaints Investigated	9	22	21

Family Planning Program

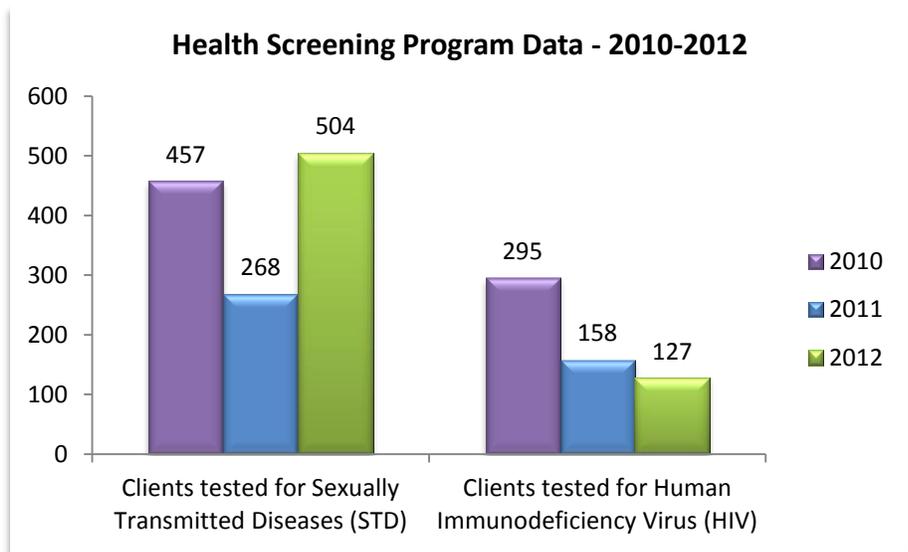
The Family Planning Clinic serves men and women of childbearing age for reproductive health needs. Clients may utilize the clinic for the following types of services: pregnancy testing and referral, sexually transmitted disease testing and treatment, and contraceptive needs. Women desiring a physical 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.



Health Screenings Program

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, gonorrhea, syphilis, Human Immunodeficiency Virus and Hepatitis B and C can be tested for through this clinic. Positive results are counseled, treated or referred for treatment and a process of partner notification is initiated.

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

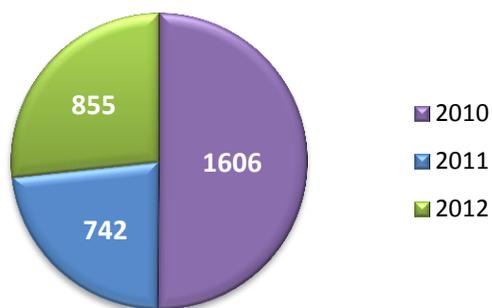


Immunization Program

The Immunization Division provides immunizations to individuals in the community with an emphasis on the pediatric population. The Division runs daily clinics with evening hours twice a month. While the majority of vaccines distributed are for infants and children, the Division also provides seasonal immunizations, including: influenza, pneumococcal, and meningococcal for seniors, adults and college students. The Immunization Division plays a major role in the distribution of vaccine to area providers enrolled in the Vaccines for Children Program (VFC). Annual site visits are made to VFC providers to assure vaccine safety, contract compliance, and implementation of the Michigan Care Improvement Registry (MCIR). To ensure this, area providers are assisted with entry of vaccines into the MCIR to assure accuracy of immunization records. The Division works with area schools to provide oversight and monitoring of immunization levels for children and entry of vaccinations into the MCIR.

Vaccine	2010	2011	2012
DTaP	171	179	126
Dtap/IPV	-0-	103	122
DTaP-Hep B-IPV	232	181	150
Hep A (Adult)	75	79	120
Hep A (Pediatric)	522	520	453
Hep A/Hep B	-0-	26	0
Hep B (Adult)	44	88	144
Hep B (Pediatric)	24	47	18
Hib-Pedvax	385	208	195
HPV	225	312	291
Influenza (seasonal)	1,606	742	855
IPV Dose	85	90	62
Meningococcal Conjugate	459	581	382
MMR	296	277	231
MMRV	-0-	18	12
Pneumococcal Conjugate	547	427	271
Pneumonia	55	1	0
Rotavirus	174	118	110
TB Testing	304	184	139
Td Adult Only	17	7	2
Tdap	517	658	441
Varicella	630	556	402
Zostavax	140	10	0
TOTAL	2384	7423	6538

Seasonal Influenza Immunization Numbers



*Includes 4022 doses Avian Influenza, HINI Vaccine

The Immunization Division puts considerable time and effort to ensure that children in Bay County are vaccinated according to schedules developed by the Centers for Disease Control and Prevention (CDC). Bay County has consistently maintained the highest rates of immunized children for its region in Michigan. The Immunization Division coordinates the Bay County Immunization Task Force which brings together key individuals in the community who have a vested interest in assuring children's vaccinations and a Public Health Nurse provides in-services to area providers to help ensure staff is knowledgeable and up-to-date on vaccine information.

Finally, the Bay County Health Department is committed to the sustainability of vaccines for Bay County residents. To this end, the Division ensures that payment is derived from insurance sources and accommodations are made for the uninsured, including a sliding fee scale to match resources of individual persons.

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 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 Environmental Quality (MDEQ) for water testing, and licensed for clinical analysis by Clinical Laboratory Improvement Amendment.

Laboratory Stats 2011:

Clinical Tests	Number
Lead	343
Family Planning Clinic	181
Communicable Disease Clinic	63
Drug Tests	23
DNA/Paternity Tests	32
Other Clinical Tests	116
Total	758
Non-Clinical Tests	Number
Drinking Water	142
Pool	800
Beach	807
Miscellaneous Water Quality	8
Total Non-Clinical	1757
Total All Tests	2515

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	2010	2011	2012
WIC Base Caseload	2,989	3,000	3,000
Closeout Participation	2,989	2,875	2,811
% Closeout Participation to Base Caseload	100%	96%	94%

WIC Program Data	2010	2011	2012
WIC Program Appointments			
Certifications (including Priority Certifications)	1,830	1,897	1,892
Re-Certifications	3,775	3,579	3,385
Infant Evaluation	637	661	596
Registered Dietitian Assessments	425	390	254
Nutrition Education	1,546	1,678	1,683
Lead Screens	536	611	697
Project Fresh Coupons Issued	1,950	3,480	3,555

In 2011, \$1,825,009.50 was spent in Bay County by WIC Program participants. These dollars greatly and positively affect our community's economy



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)

2009		2010		2011	
Plan A	Plan B	Plan A	Plan B	Plan A	Plan B
7,312	6,296	5,653	7,642	7,492	9,051

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.

DIVISION ON AGING

Services Provided Fiscal Year October 1, 2011– September 30, 2012



Tammy Roehrs: Director, Division on Aging

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: Wonderful Times newsletter, Volunteer program, special events, Senior Olympics, and Information and Referral. Other Grant Programs include Caregiver Education and Exercise Program.

Volunteers gave 9,888 hours of their time in 2012 to the Division on Aging.

Volunteer Program

The Division on Aging programs relies on volunteers of all ages to assist with Friendly Transportation, Shopping, Calling and Visiting, Yard Clean up, Senior Center Helper, Wonderful Times Distribution, Tax Credit Volunteer, Meal Delivery Distribution, Special Events and Program Helper, and any other requests that are needed.

Bay County Division on Aging Services Provided & Financials

Services Provided Fiscal Year 2011-2012 (October 1, 2011, through September 30, 2012)					
Program	Total Clients	Contract Meals	Waiver Meals	NSIP**	Total Meals
Congregate Nutrition	722	36,056	0	1,173	37,229
Home Delivered Meals	856	110,968	8,433	0	119,401

Sources of Income		
Source	Amount	Percentage
Senior Millage Fund	\$1,398,739	61.2
Region VII Area Agency on Aging Grants	\$467,501	20.5
Client Contributions	\$217,787	9.6
NSIP***	\$99,926	4.4
Medicaid Waiver	\$47,608	2.1
Other Income/Rebates	\$28,387	1.3
Client Fees	\$13,239	0.6
General Fund	\$6,200	0.2
Department of Human Services	\$5,007	0.1
Total	\$2,284,394	100

Additional Senior Millage

In the November 2012 general election voters approved a senior millage of 0.3 mills increase separate from the current .50 mills. Additional millage dollars will afford Bay County the opportunity to expand the kitchen facility and to support food production demands and prevent any interruption of senior services. Our vision is to ensure Bay County Division on Aging programs remain an integral part of our community and a valued service to all seniors.

Support Services in Hours								
Program	Total Clients	AAA Contract	*Waiver	VA	Care Mgmt.	DHS	Senior Millage	Total Hours
Case Coordination & Support	1,036	5,511	0	0	0	0	0	5,511
Caregiver Training	34	490	0	0	0	0	0	490
Exercise Program	83	1,766	0	0	0	0	0	1,766
Homemaking	239	7,318	0	0	662	0	0	7,980
Personal Care	81	681	0	0	176	247	1,530	2,634

* Service units converted to hours

***Nutrition Services Incentive Program (formerly USDA)

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



Special Events

Bay County Division on Aging is the resource for various Special Events and Programs within Bay County. The individual Dining Centers are where the fun begins with attractions such as holiday parties, picnics, health support groups, guest speakers, computer classes, Bay City Players, etc. All of the Special Events are accompanied by a breakfast, luncheon, or dinner. **The Division on Aging served 3,219 meals through special events.**

Senior Olympics

The mission of the Senior Olympics' is to promote fellowship, physical, and mental health through activities for adults 55 years plus. Senior Olympics is one of Division on Aging's biggest summer event along with the staff, Olympic committee and the participants we continue to grow and offer community involvement with changing events each year. **In 2012 the Bay County Division on Aging Senior Olympic Games celebrated 25 years of Senior Games with 271 participating in the events.**



MEDICARE PART D

Bay County Division on Aging in conjunction with Michigan Medicare Medicaid Assistance Program (MMAP) held clinics to assist seniors with Medicare Part D and Medicare Advantage Plans, with the clinics being held at Riverside Senior Dining and conducted by Case Managers that are Medicare Medicaid Assistance trained counselors. Open enrollment was from October 15 thru December 7th. **During the 2012 open enrollment Division on Aging served 206 seniors.**

Elder Abuse Grant

In September, 2011, the Bay County Division on Aging was awarded a grant from the U.S. Department of Justice called, The Enhanced Training and Services to End Violence Against and Abuse of Women in Later Life or, The Elder Program Grant. Although the grant title specifies women, men are also included in services developed through this grant.

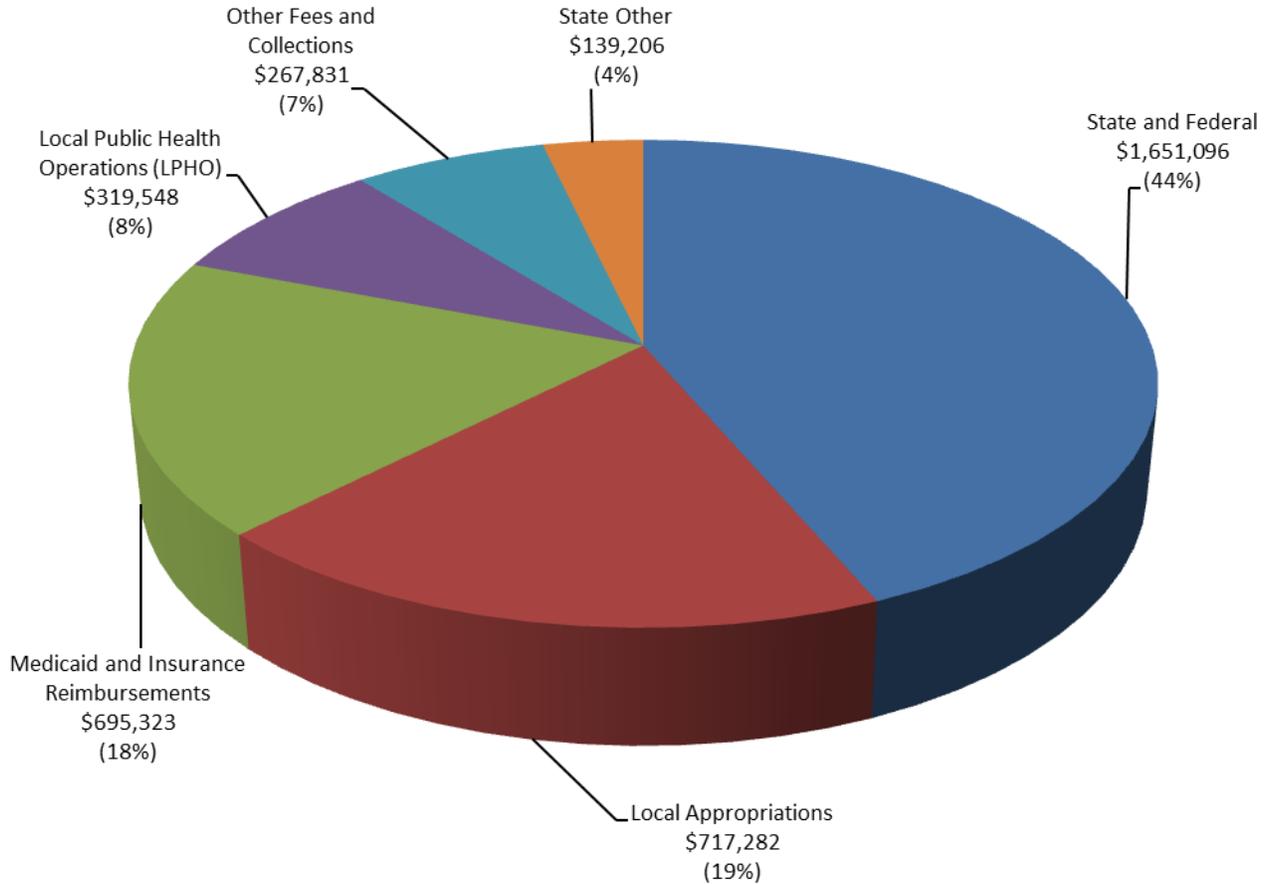


The program's purpose is to increase and strengthen training for police, prosecutors, and the judiciary in recognizing, investigating, and prosecuting instances of abuse, neglect, exploitation, domestic violence, and sexual assault against older individuals (age 50 and older): provide or enhance services for older victims; create or support multidisciplinary collaborative community responses to older victims; and conduct cross-training for victim service organizations, governmental agencies, courts, law enforcement, and nonprofit, nongovernmental organizations serving older victims. Department of Justice, Office on Violence Against Women

The Elder Abuse Grant is administered by the Division on Aging. Grant partners include: Bay County: Executive Office, Division on Aging, Sheriff's Office, Prosecutor's Office; the Bay Area Women's Center, The Michigan Department of Human Services for Bay, Arenac, Gladwin Counties and Region VII Area Agency on Aging. **The Elder Abuse Grant was the 2012 winner of the Outstanding Collaboration Award presented by the Bay Human Services Collaborative Council.**

BAY COUNTY HEALTHDEPARTMENT FINANCIALS

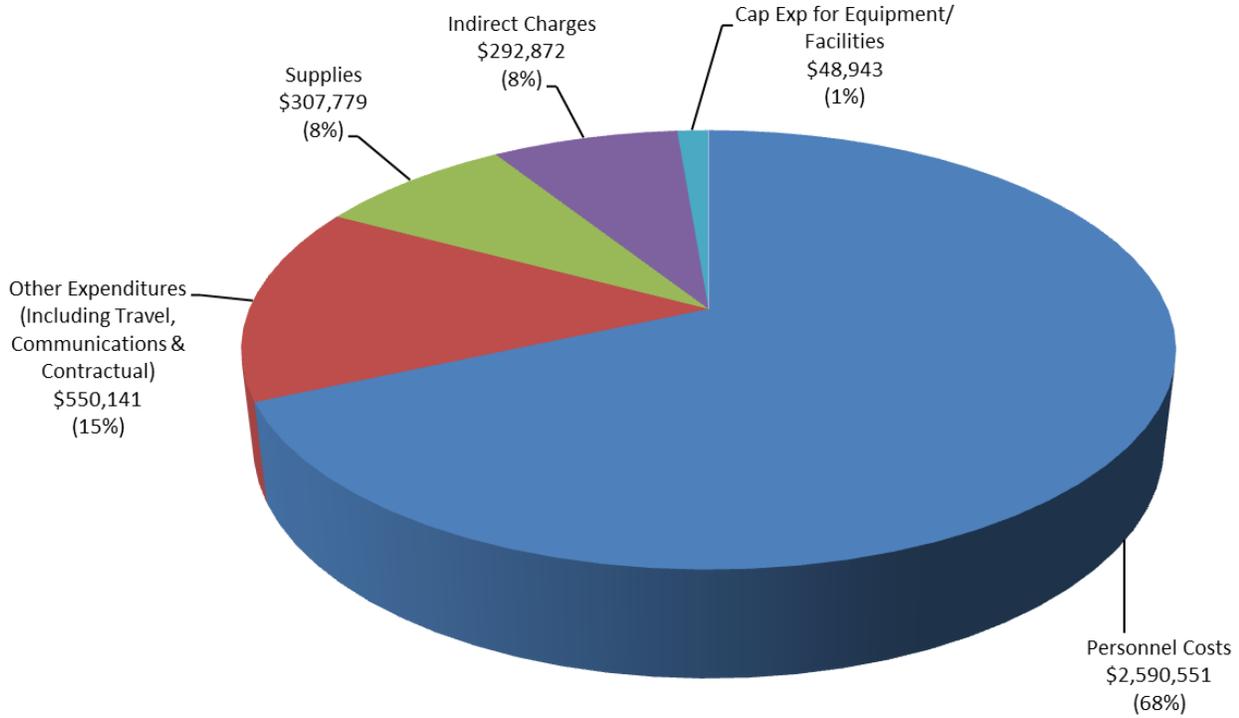
Fiscal Year End 9/30/2012 Revenues



Health Department Revenue	
State and Federal	\$1,226,402
Local Appropriations	\$885,090
Medicaid and Insurance Reimbursements	\$487,321
Local Public Health Operations (LPHO)	\$199,268
Other Fees and Collections	\$331,953
State Other	\$141,567
Total Revenues	\$3,271,601

BAY COUNTY HEALTHDEPARTMENT FINANCIALS
Fiscal Year End 9/30/2012 Expenditures

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



Health Department Expenditures	
Personnel Costs	\$2,323,610
Other Expenditures (Including Travel, Communications & Contractual)	\$243,087
Supplies	\$316,579*
Indirect Charges	\$349,256
Cap Exp. for Equipment/ Facilities	\$39,069
Total Expenditures	\$3,271,601
Per Capita Spending	\$30.95

***Includes value of Federally Funded Vaccines amount of \$139,206**

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