



2014 Annual Report



Designed and Edited by: Tracy Metcalfe and
Liz Warmbier

Public Health Services

Health Promotion
Health Protection
Disease Prevention

Main Location

1200 Washington Avenue
Bay City, Michigan 48708
Ph: (989) 895-4003
Fax: (989) 895-4014

Pinconning Clinic

415 Arthur St.
Pinconning, Michigan 48650
Ph: (989-879-3081

www.baycounty-mi.gov/Health

Bay County Profile (2013)

Population 106,832
Births 1,042
Deaths 1,159

Race (2012)

White 102,676
Black 2,588
Native American 791
Asian 777

Hispanic Origin 5,273

Leading Causes of Death (Crude Numbers from 2011)

Heart Disease 384
Cancer 257
Chronic Lower Respiratory Disease 81
Stroke 47
Alzheimer's 23
Unintentional Injury 31
Diabetes 24
Kidney Disease 21
Intentional Self-harm (Suicide) 16
Pneumonia & Influenza 23

Unemployment Rate

7.1

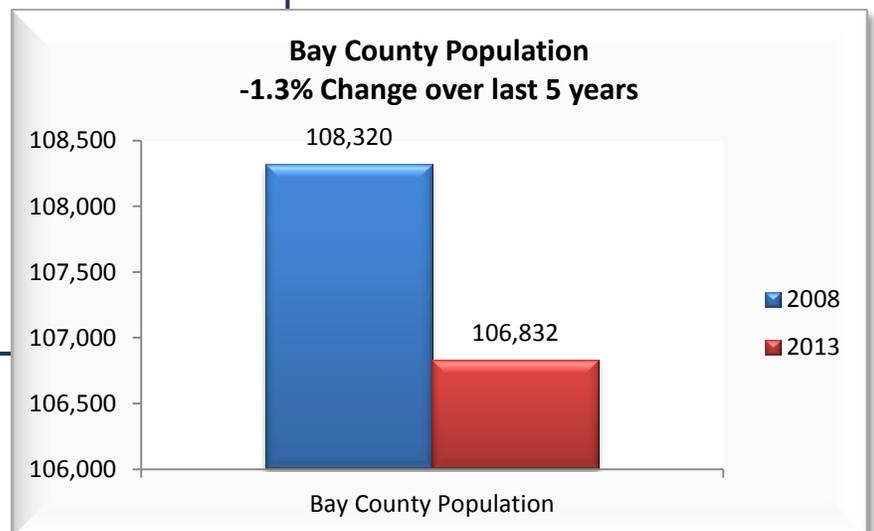
(2014– Bureau of Labor Statistics)

Gender (2012)

Male 52,544
Female 54,288

Age (2012)

Under 18 22,752
18-44 33,901
45-64 31,195
65+ 18,984



This report highlights public health services indicators for the year 2014. If there is a particular area of interest that is not listed in this report, please feel free to contact our office.



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.



As Bay County Executive, I am proud of the vision and dedication of the staff and administration of the Bay County Health Department. By providing quality health services to our residents, they continue to enhance our quality of life and make Bay County a great place to call home. Congratulations on a job well done!

~ Tom Hickner, Bay County Executive

BAY COUNTY HEALTH DEPARTMENT MISSION: To protect and promote a healthy community and safe environment by providing quality services through all stages of life.

VISION: To be a recognized public health leader meeting the needs of our community.

VISION PRIORITIES

We will...

- Create a safe, friendly, confidential, and professional environment.
- Create an environment that values and respects all customers and employees.
- Promote our programs and services in the community.
- Partner with community organizations.
- Provide responsible fiscal management.
- Utilize the latest technology to reach a broader audience.

GUIDING PRINCIPALS

Accountability, Kindness, Commitment, Positivity, Communication, Professionalism, Dependability, Respect, Empowerment, Teamwork

Under the capable direction of Health Director Joel Strasz, the dedicated staff of the Bay County Health Department continues to serve Bay County residents in the most professional, efficient and cost-effective manner possible. Over the years, state funding and other revenue sources have been reduced and, unfortunately, the trend continues. However, the Health Director continues to pursue every avenue available to secure grant funding to continue and/or institute new health programs in our community. The Bay County Health Department is steadfast and devoted to its goal of providing necessary services and programs in order to maintain the good health of the citizens of Bay County and they 100% succeed in these efforts.

*Ernie Krygier, Chair
Bay County Board of Commissioners*

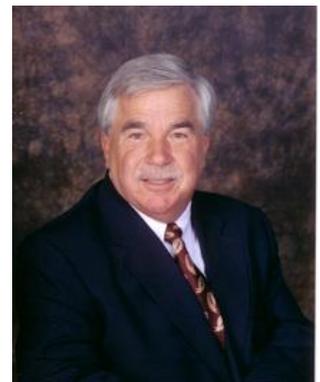


Table of Contents

A Message from the Bay County Health Department Management	4
Communicable Disease Division	5
Child Lead Education and Screening	6
Children’s Special Health Care	7
Emergency Preparedness	8
Environmental Health	9
Food Service Program.....	9
Household Hazardous Waste Program.....	10
Private/Public Water Programs	10
ServSafe Food Service Sanitation Program	10
Beach Monitoring & Kawkawlin River Sanitary Program	11
Bathing Beach/Surface Water Quality.....	12
Onsite Sewage Services	12
Family Planning Program	12
Health Education	13
Eat Safe Fish.....	13
Bay County Health Assessment	13
Hearing and Vision Program.....	14
Health Screenings Program	14
Immunizations program.....	15
Laboratory Services.....	16
Maternal Infant Health Program (MIHP).....	17
Medical Examiner	18
Women, Infants and Children.....	19
Bay Health Plan	20
Division on Aging	20
Bay County Financials (FY 2012/13).....	25
Revenues.....	25
Expenditures	26

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:

On behalf of the management and staff of the Bay County Health Department, I am very pleased to present the 2014 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.

For over seventy years, the staff of the Bay County Health Department has worked very diligently 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 diseases 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.

2014 was a banner year for the Bay County Health Department. First and foremost, our partnership with Saginaw Valley State University allowed for the creation of the University Clinic. The University Clinic is a product of a \$1,500,000 grant from the Health Resources Services Administration (HRSA) of the United States Department of Health and Human Services to Saginaw Valley State University. The clinic is designed to meet the medical needs of medically underserved families and individuals in our community, particularly those who suffer from multiple chronic conditions and do not have access to a regular medical provider. SVSU Students in the Nurse Practitioner program, the Occupational Therapy program, the Social Work Program and Pharmaceutical Students from Ferris State University work with instructors and public health professionals to provide care in the University Clinic and other clinical areas in the Health Department.

Secondly, the Bay County Health Department is providing more and more opportunities to keep local residents healthy and active. In October of 2014, the Health Department was awarded grant funds through the Michigan Department of Health and Human Services to create programming to improve nutrition via the Prescription for Health Program and to work with schools to improve opportunities for students to travel to school by walking and biking. Furthermore, the Health Department is pleased to announce that in 2015, it will work with local providers to offer diabetes prevention and control classes to local residents.

The Bay County Health Department continues to collaborate to assess the health and well-being of the community with its many partners including McLaren Bay Region, the Bay Health Plan, the Bay Area Community Foundation, the United Way of Bay County and Bay Arenac Behavioral Health Authority. In 2015, these entities will embark in a second round of data gathering and collaborative planning. In addition to providing a roadmap to better health for all of Bay County residents, these efforts will help us effectively develop and 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,



Joel R. Strasz
Health Officer

Communicable Disease Division

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.

MICHIGAN DISEASE SURVEILLANCE SYSTEM (MDSS) Reportable Communicable Disease Statistics - 2012-2014			
DISEASE	2012	2013	2014
Campylobacter	5	10	7
Giardiasis	4	5	1
Listeriosis	1	0	0
Salmonellosis	10	8	7
MENINGITIS DISEASE GROUP			
Aseptic Meningitis	12	11	7
Bacterial Meningitis	3	0	0
OTHER DISEASE GROUP			
Animal Bite	158	90	96
Botulism – Infant	0	0	0
Coccidioidomycosis	1	1	1
Cryptococcosis	1	0	1
Cryptosporidiosis	-	5	3
Guillain-Barre Syndrome	0	2	1
Influenza	-	18	12
Legionellosis	1	1	3
Norovirus	-	1	68
Streptococcal Dis. Inv. Group A	0	5	6
STD GROUP			
Chlamydia	315	279	314
Gonorrhea	24	30	24
Syphilis	2	3	3
VACCINE PREVENTABLE DISEASE GROUP			
Mumps	1	0	0
Pertussis	0	2	15
Shingles	-	3	3
Varicella	14	4	3
VIRAL HEPATITIS			
Hepatitis B (Acute)	1	1	2
Hepatitis B (Chronic)	9	1	15
Hepatitis C (Acute)	0	0	0
Hepatitis C (Chronic)	87	57	74

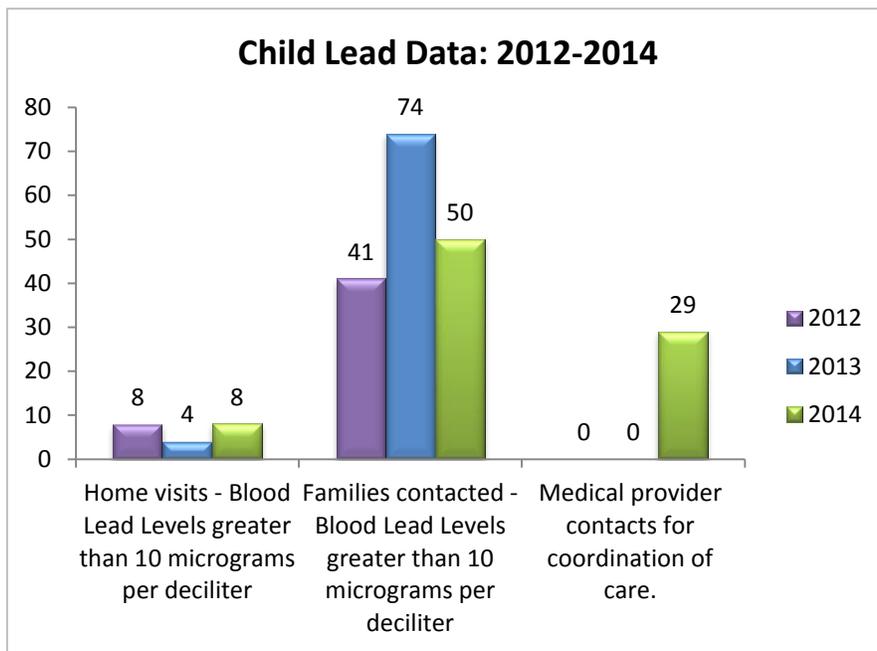
The goals of the Communicable Disease Division are to conduct disease surveillance activities, promptly investigate disease outbreaks and clusters, to provide case follow-up, completion and guidance to prevent disease transmission and to implement control measures to minimize further transmission of 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.



* No Bay County Residents have been reported as being affected by the ongoing multi-state fungal meningitis infection.

Child Lead Education and Screening

Effective October 2012, as recommended by the CDC, children with a blood lead level (BLL) of 5 microgram per deciliter (mcg/dl) or greater are identified as having an Elevated Blood Lead Level (EBLL) “of concern”. At this level parents and medical providers are encouraged to take action and 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** a 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 12 and 30 months old. In addition, the BCHD Laboratory receives referrals and completes testing 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

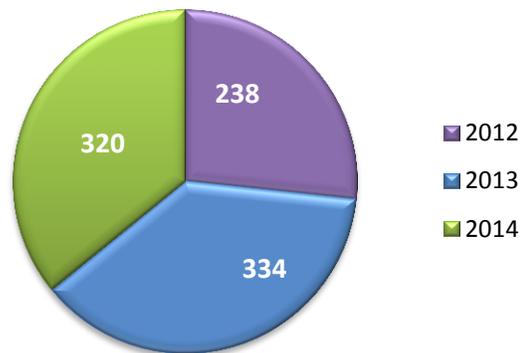
to reduce and/or eliminate further exposure to lead. Children whose BLL equaled or exceeded 20 mcg/dl, had a home visit by both a Public Health Nurse and an Environmental Health Elevated Blood Lead (EBL) Investigator/Risk Assessor.

Currently in Bay County there are 9 children with an EBLL. PHN follow up for these children includes coordination with medical providers and reminder calls to the family for repeat BLL testing at recommended intervals until a child’s BLL returns to less than 10 micrograms/dl. In 2014, 6 children were opened to EBLL case management by the PHN for an EBLL of 10 mcg/dl or greater, of which 2 of these children had an EBLL of 20 mcg/dl or greater and also received an environmental investigation from the Environmental Health division. This past year, 11 children was closed to case management as their BLL returned to normal.

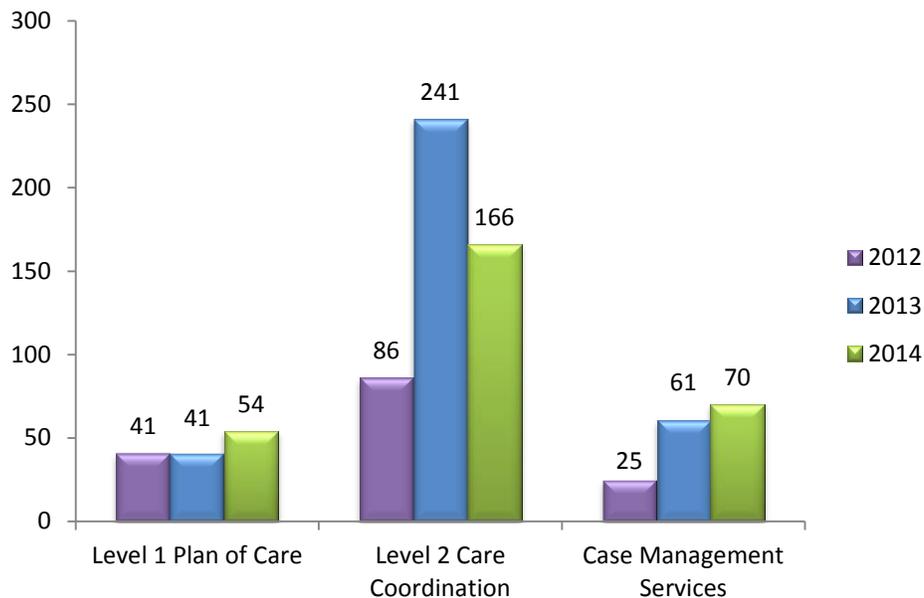
Children's Special Health Care Services

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



CSHCS Program Data - 2012-2014



Emergency Preparedness

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 Coalition (HPC).



Throughout the year BCHD is represented at various preparedness related meetings. These meetings include monthly Michigan Department of Community Health (MDCH) Office of Public Health Preparedness (OPHP) teleconferences, Region 3 Emergency Preparedness Coordinator (EPC) meetings, Region 3 Healthcare Preparedness Coalition (HPC) Advisory Committee and Planning Board meetings, bi-monthly Local Emergency Planning Committee (LEPC) meetings, quarterly Local Planning Team (LPT) meetings, and other collaborative meetings as they are scheduled. The EPC is also responsible for making sure BCHD participates in required monthly and quarterly radio and other communication drills.



Additionally, the BCHD has to maintain and test several plans throughout the year. These plans include, but are not limited to, the Emergency Operations Plan (EOP), Crisis Emergency Risk Communications (CERC) Plan, Strategic National Stockpile (SNS) Plan, Continuity of Operations Plan (COOP) and Mass Vaccination Plan. MDCH OPHP requires, at minimum, that each plan is revised and updated annually. Some of these plans are required to be submitted to MDCH OPHP for plan review and score. The SNS Plan is required to meet a minimum score of 89%. In 2014, BCHD scored 95%, thereby meeting and exceeding minimum requirements.

Emergency Preparedness (EP) staff facilitated the required annual preparedness training for BCHD staff as part of the health department's all day staff in-service as well as conducted a tabletop exercise focused on a foodborne terrorism scenario to further train staff on their roles and responsibilities during an emergency event requiring the dissemination of antibiotics to Bay County's population. In addition, EP Staff participated in exercise planning meetings, and eventually a county-wide tabletop exercise facilitated by Bay County Emergency Management. The scenario entailed a mass casualty incident occurring at the fireworks festival and how all local, state and federal emergency responders would work together to respond to such an event.

In August, the Emergency Preparedness Coordinator and the Bay County Health Officer responded to the Emergency Operations Center (EOC) during the Bay County/City of Bay City Water Emergency. The EPC and Health Officer assisted with monitoring the situation and ensuring the public was informed on how to respond to the situation.

Finally, the Health Department participated in biweekly calls with the MDCH and CDC as the Ebola outbreak in West Africa gained momentum and concern about travelers returning to the US grew. The BCHD participated in briefings and taskforce meetings to ensure proper protocol was followed if needed.

Environmental Health

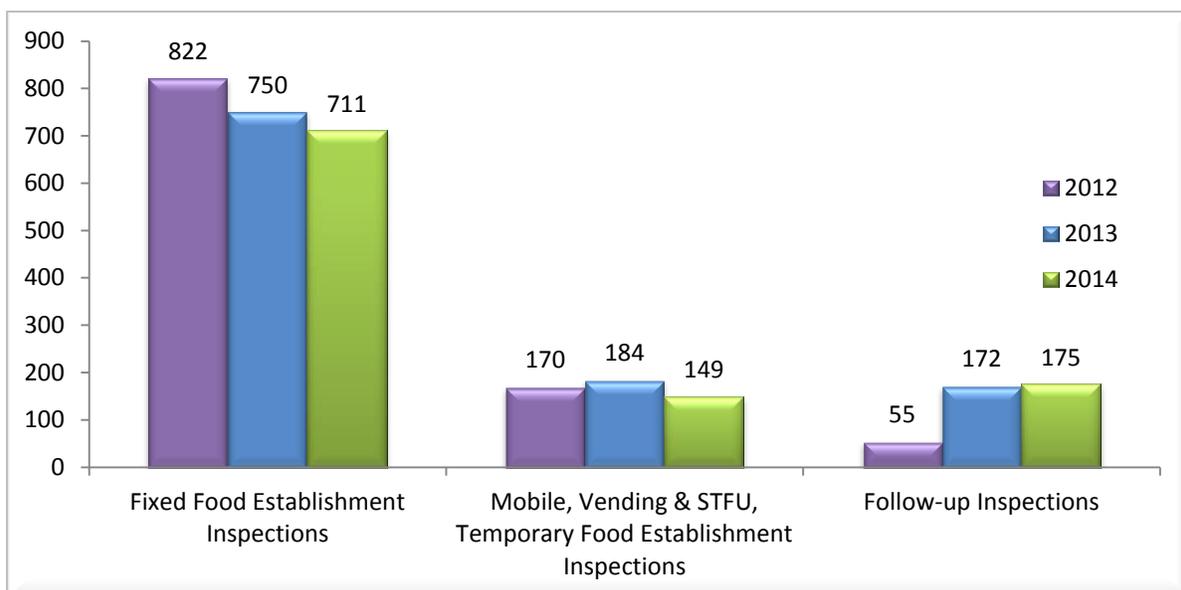
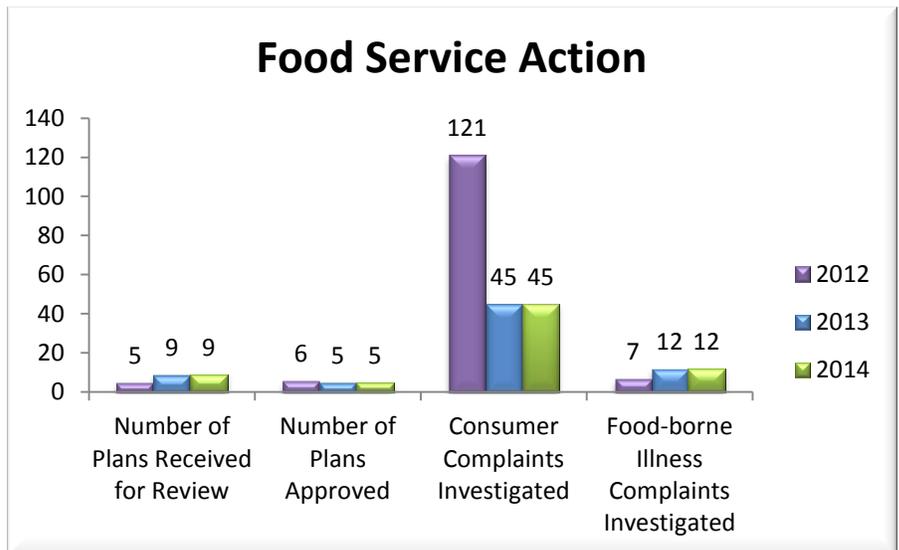
The Environmental Division of the Bay County Health Department protects the public’s health through programs established by the Michigan Public Health Code and local Sanitary Ordinances. These programs focus on the prevention of disease and exposure to pollutants via education, inspection of facilities 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.





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 Sanitarian Daniel Dicks. 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

	2012	2013	2014
Number of Participants	67	88	77
Number of Participants that Passed ServSafe Exam	66	85	70

Household Hazardous Waste Collection Program:

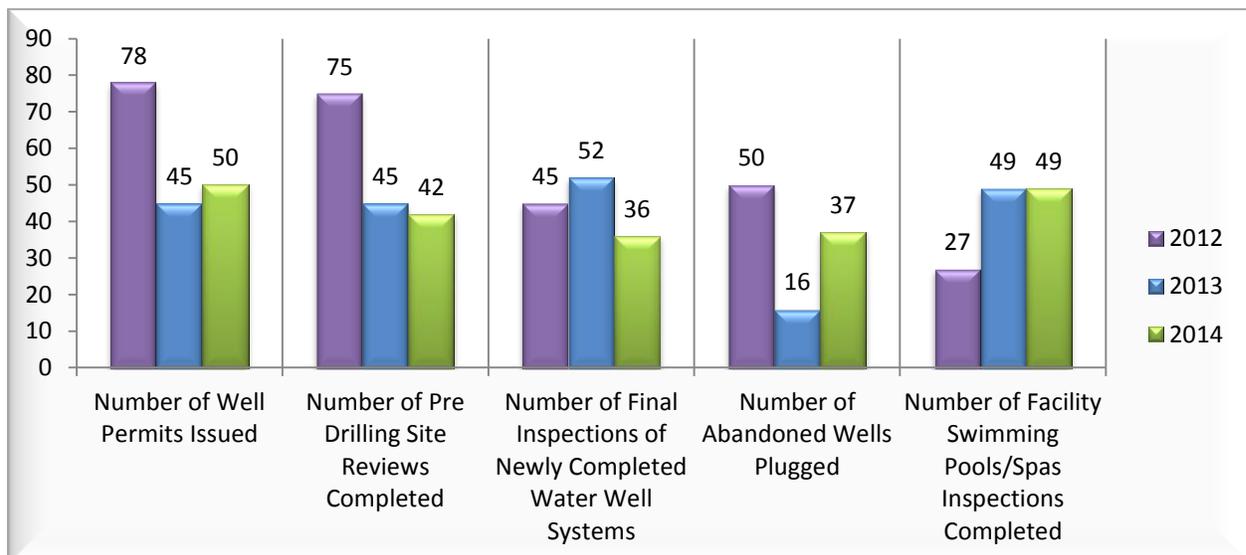
The Household Hazardous Waste Collection Program gives Bay County residents a legal and cost-free way to dispose of unwanted household chemicals that cannot be disposed of in the regular trash. The program is sponsored by the Dow Chemical Foundation and Bay County Health Department. A variety of items 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.

2014 Bathing Beach/Surface Water Quality - Sample Analysis Summary

Station	Location of Sampling Station	Single-Day Sampling Events	Number of Exceedances	30-Day Sampling Events	Number of Exceedances
2	Saginaw River – Bay City	10	0	6	0
3	Wenona Beach	15	2	6	0
4	Kawkawlin River	10	3	6	2
5	Bay City State Rec Area	15	1	6	0
6	Brissette Beach	15	2	6	0
7	S. Linwood Beach	15	1	6	0
8	Pinconning Park	15	0	6	0
	Total	85	9	42	0

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:

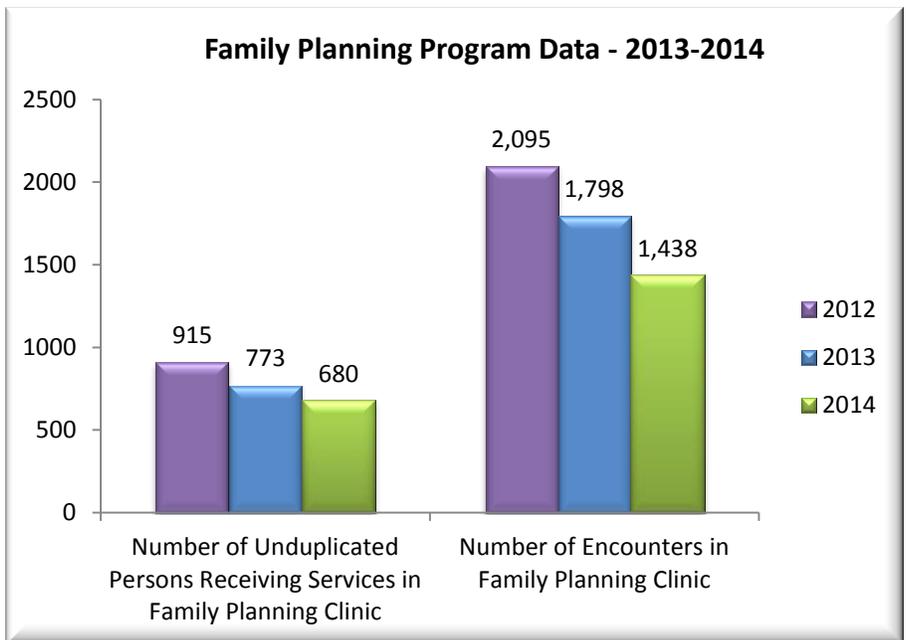
On-site sewage disposal permits are issued for homes and businesses that are not served by municipal sewer systems. Sanitarians conduct field evaluations to determine the suitability of conditions for on-site disposal of sewage. The Division reviews construction plans and consults with owners and engineers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

	2012	2013	2014
Number of Parcels Evaluated	263	224	84
Number of On-Site Sewage Disposal & Tank Permits Issued	62	93	66
Number of Alternative/Engineered Systems Approved	0	0	0
Number of Complaints Investigated	21	27	19

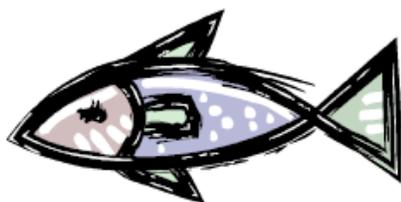
Family Planning Program

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 Education Division

The Goal of the Health Education Division is to improve the health of individuals and the community through presentations, community events, and providing educational materials on health related topics. In 2014, the BCHD participated in over 30 community events promoting the programs and services provided by the health department.



Eat Safe Fish

Through the Eat Safe Fish and Wild Game program, Health Educators participated in numerous outreach events and provide education and presentations to organizations and events in the Tri-County area. The number of outreach provided this year exceeded the number provided in 2013. The Eat Safe Fish program provided a total of 22 presentations to various groups throughout Saginaw and Bay County and participated in 22 community events.

Eat Safe Fish also assisted the Environmental Protection Agency, Region V with 5 additional community outreach events in the Tri-County area. Additionally, Eat Safe Fish has established several new relationships and brochure drop-off locations and assisted Bay City State Recreation Area with 23 “Lessons Learned from the Bald Eagle” field trips.

Community Health Assessment and Improvement Plan

With funding from the Bay Area Community Foundation, the Community Health Assessment (CHA) was completed in 2012 in partnership with McLaren Bay Region, Bay Area Behavioral Health and Bay Health Plan. The Community Health Improvement Plan (CHIP) was then completed in 2013. The Bay County Health Department, along with various community health organizations in Bay County, has been working diligently to complete the goals and objectives set for by the workgroups. Results of the health improvement plan can be found on the Bay County Health Department webpage at www.baycounty-mi.gov/health.

Local public health agencies are required to complete a CHA every 5 years; however, with the BCHD’s partnership with McLaren Bay Region a CHA must be completed every 3 years to satisfy the hospitals requirements. As such, the BCHD along with multiple community partners including, McLaren Bay Region, Bay Area Behavioral Health, Bay Health Plan, the CAN Council, the Human Services Coordinating Collaborative, the Neighborhood Resource Center, and Division on Aging is in the process of completing another community Health assessment. The CHA will be completed in October of 2015.

The health assessment will consist of a paper survey distributed online, as well as the collection of existing data from sources including, but not limited to the Michigan Department of Health and Human Service, the US Census, the Michigan Behavioral Risk Factor Surveillance Survey and Kids County Data. Once the CHA is completed, community partners will come together to review the findings from the health assessment and determine what changes or updates need to be made.

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, and 4th grade classrooms, and annual vision tests in grades 1st, 3rd, 5th, 7th, and 9th grade 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 affect a child's ability to learn.

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.

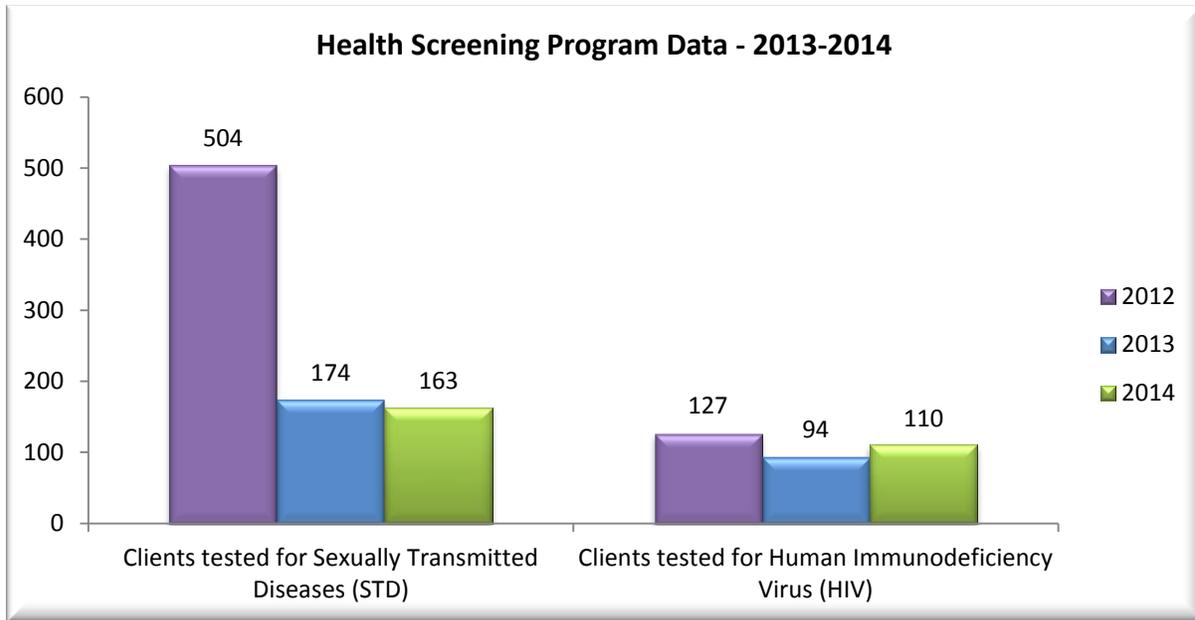
	Vision		Hearing	
	2012/2013	2013/2014	2012/2013	2013/2014
Early Childhood (children under 3)	937	0	944	0
Preschool (children 3-5)	157	1,054	29*	1,056*
School Age (grades K-12)	5,982	5,433	4,085	3,887
Total	7,076	6,487	4,943	

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.

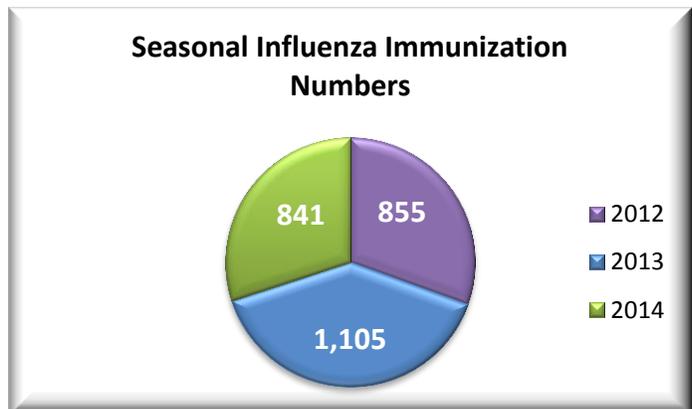
Left untreated, these diseases can develop into pelvic inflammatory disease (PID), which costs, on average, \$3,600 to treat. Based on the number of women screened and referred for treatment, every dollar invested in STD screening results in at least \$2.50 in savings.¹

Health Screening Data:



Immunizations 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.



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

Vaccine	2012	2013	2014
DTaP	126	169	174
Dtap/IPV	122	131	135
DTaP-Hep B-IPV	150	200	235
DTaP-Hib-IPV	-	7	-
Hep A (Adult)	120	100	105
Hep A (Pediatric)	453	456	423
Hep A/Hep B	-	-	-
Hep B (Adult)	144	130	143
Hep B (Pediatric)	18	34	27
Hib-Pedvax	195	285	319
HPV	291	296	324
Influenza (seasonal)	855	1,105	841
IPV Dose	62	84	78
Meningococcal Conjugate	382	447	265
MMR	231	144	177
MMRV	12	151	149
Pneumococcal Conjugate	271	324	382
Pneumonia	-	8	7
Rotavirus	110	111	140
TB Testing	139	143	185
Td Adult Only	2	3	3
Tdap	441	495	372
Varicella	402	281	245
Zostavax	-	-	-
Rabies	-	-	4
TOTAL	7423	6538	7117

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.



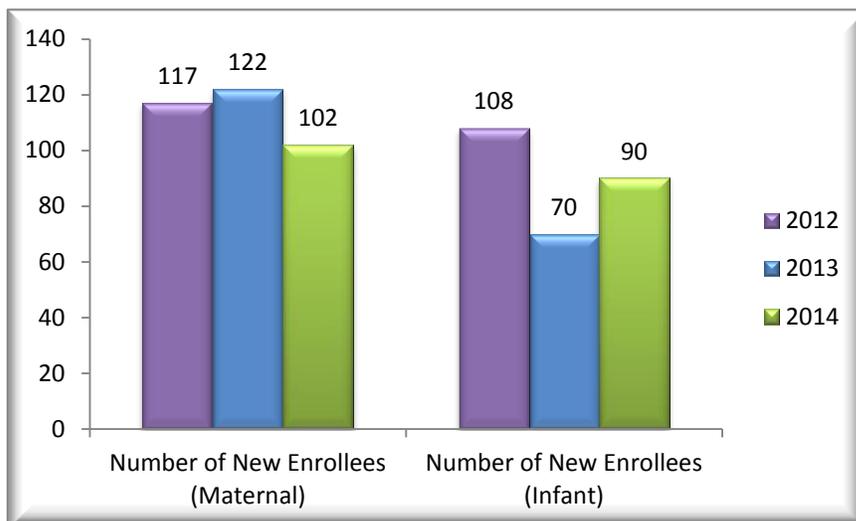
Laboratory Services

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.

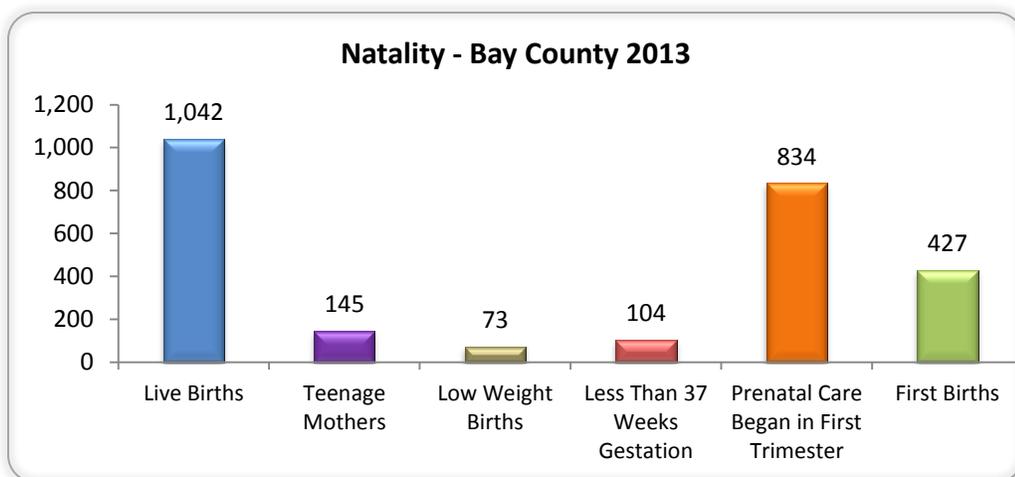
Laboratory Stats 2014:	Number
Total Clinical Tests	1969
Total Water/Non-Clinical Tests	1820

Maternal Infant Health Program

The Maternal Infant Health Program (MIHP) is a home visiting program that provides support to pregnant women and to families with infants under 3 years old who reside in Bay County. It is offered as a benefit under Medicaid Health Insurance and participation is encouraged. It provides education and promotes healthy pregnancies, good birth outcomes and healthy infant development through the services of a Public Health Nurse and Social Worker.



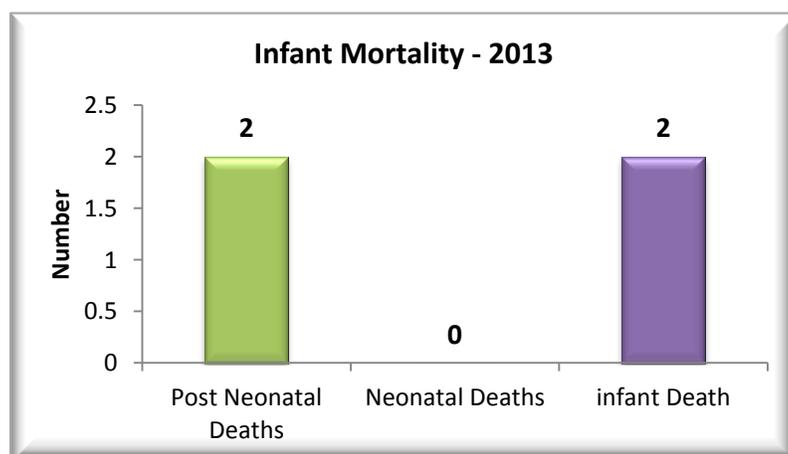
Infant Natality and Mortality



Post Neonatal deaths are deaths that occurred during days 28 and 364 of life.

Neonatal deaths are deaths that occurred in the first 27 days of life.

Infant deaths are the total number of deaths within the first year of life.



Bay County Medical Examiner

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

Autopsied Deaths			
Dr. Howard Hurt, Medical Examiner			
AGE	2012	2013	2014
0-10 yrs.	4	2	3
11-20 yrs.	3	3	4
21-30 yrs.	8	11	6
31-40 yrs.	13	6	14
41-50 yrs.	15	19	22
51-60 yrs.	28	23	16
61-70 yrs.	8	9	10
71+	11	12	13
Total	90	85	88
Gender			
Male	61	59	57
Female	29	26	31
Cause of Death			
Blunt Force Trauma - Total	18	11	9
• Auto Accident	17	9 (3 motor cycle)	6 (1 motor cycle)
• Industrial	1 (Airplane Crash)	0	(1 pedestrian/auto)
• Falls		2	2
Liver Disease	1	6	19
Homicide	1	1	2
Hanging	1	1	1
Heart	27	34	42
Drug Overdose	25	21	18
Gunshot	1	5	5
Drowning	-	1	1
Manner of Death			
Accidental	20	19	21
Homicide	1	1	2
Indeterminate	25	19	20
Miscellaneous	16	0	0
Natural	40	39	39
Suicide	3	9	6
Alcohol/Drug Involved			
Alcohol	1	13	15
Cocaine	2	5	5
Hydrocodone	7	7	4
Methadone	5	1	4
Morphine	4	6	7
Oxycodone	2	0	2
Fentanyl	4	1	1

Women, Infant and Children

WIC is a Federally funded program that provides nutritious food, nutrition education and assistance with community referrals for 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	2012	2013	2014
WIC Base Caseload	3,000	2,952	2,807
Closeout Participation	2,811	2,741	2,646
% Closeout Participation to Base Caseload	94%	93%	94%

WIC Program Appointments	2012	2013	2014
Certifications (including Priority Certifications)	1,892	1886	1,772
Re-Certifications	3,385	2845	1,764
CEVALS (New in 2013)	-	491	1,435
Infant Evaluation	596	611	597
Registered Dietitian Assessments	254	343	474
Nutrition Education	1,683	1592	1,499
Lead Screens	697	684	658
Project Fresh Coupons Issued	3,555	3,555	3,040

Research has shown that there is no better food than breast milk for a baby's first year of life. Breastfeeding provides many health, nutritional, economical and emotional benefits to mother and baby. Since a major goal of the WIC Program is to improve the nutritional status of infants, WIC mothers are encouraged to breastfeed their infants. WIC has historically promoted breastfeeding to all pregnant women as the optimal infant feeding choice, unless medically contraindicated. (Reference: USDA)

Bay County WIC continues to offer this support with a breastfeeding peer counselor as well as three certified lactation counselors. Breastfeeding education and support includes: individual appointments, group classes and telephone calls to any WIC participant.

In 2014, \$1,782,525.28 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.

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, 2013– September 30, 2014



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.

Tammy Roehrs: Director, Division on Aging

Volunteer Program

The Division on Aging programs relies on volunteers of all ages to assist with programs such as Friendly Transportation, Shopping, Senior Center Helpers, Wonderful Times Distribution, Tax Credit Volunteers, Special Events and Program Helpers, and other request that are needed.

May of 2014 we honored the volunteers with a special Volunteer Recognition Dinner with 180 in attendance.

Volunteers gave a total of 8,955 hours of their time in 2014 to the Division on Aging.

Dining Center	Volunteer Hours
Canteen Dining Center	154
Hampton AM Dining Center	438
Hampton PM Dining Center	602
Kawkawlin Dining Center	328
Riverside Friendship Center	2587
Williams Senior Dining Center	420

Other Volunteer Activities	Volunteer Hours
Advisory Board	58
Food Commodities	518
Memorial Garden	39
Special Events	107
Flu Clinic	12
Handyman	4
Knitting	1421
Yard Work	7
Meal Deliveries	166
Senior Olympics	441
Tax Assistance	53
Transportation	322
Wonderful Times	348
Friendly Visitor	13
Interns	851

Division on Aging Sources of Income:

Sources of Income		
Source	Amount	Percentage
Senior Millage Fund	\$1,412,224	44%
Additional Senior Millage (Kitchen & Services)	\$847,334	26%
Region VII Area Agency on Aging Grants	\$481,089	15%
Client Contributions	\$256,957	8%
NSIP***	\$105,367	3%
Medicaid Waiver	\$52,959	2%
Other Income/Rebates	\$24,099	.7%
Client Fees	\$37,348	1%
General Fund	\$6,200	.2%
Department of Human Services	\$2,741	.1%
Total	\$3,226,318.00	100%

Additional Senior Millage

The 5,300 square-foot expansion includes a new commercial kitchen facility, energy efficient food preparation equipment, upgrades to the food storage areas, a new receiving canopy for deliveries to the kitchen and a fresh new look to the Riverside Friendship Senior Dining Center. Construction on the expansion and renovations is scheduled for completion June 2015.



* Service units converted to hours
 ***Nutrition Services Incentive Program (formerly USDA)
 NOTE: All statistics and dollar amounts are subject to final audit.

Senior Olympics

We are proud to be able to help promote healthy lifestyles for adults, particularly seniors 50 years of age and older. Staying fit and active is the best answer to aging and our Olympic games provide an excellent way for seniors to maintain or improve their physical and mental condition, as well as their coordination, while enjoying some friendly competition. Senior Olympics is Division on Aging's largest social event.

The 2014 Bay County Senior Olympic games were held from May 28 through June 13, 2014. The theme was "Livin' The Dream" **There were 270 participants and 15 medal events.**

Games offered during the event include: Shuffleboard, Fishing, CO-ED Tennis, Horseshoes, Cycling, Euchre, Putt-Putt Golf, Bowling, Smear, Corn Hole Toss, Walking Race, Pinochle and Golf.

Health and Wellness Programs:

The Division on Aging in cooperation with the Bay County Community Center offered new fitness classes geared to age 60 and older, with exercises for everyone, especially those with weakness, balance issues and diminished range of motion.

Classes Offered	Number of Participants
Chair Yoga	89
Senior Fit in 30 Minutes	65
Ready Set Go	9
Water Stretch Class	5

Osteoporosis Strength Exercise Classes

This program demonstrates through a pre and post evaluation to be effective for improving the health and wellbeing among the older adults. This is a six week program concentrated on the bones and muscles that deteriorate due to age, disease, and lack of use.

Classes Offered	Number of Participants
Spring Classes	78
Winter Classes	70
Fall Classes	80
Summer	25

Transportation Request

The Division on Aging transportation program will coordinate transportation for the older adult to and from community facilities in order to receive support services, reduce isolation, or otherwise promote independent living. **Provided 781 rides**



**A MATTER OF
BALANCE**
MANAGING CONCERNS ABOUT FALLS

Matter of Balance

Matter of Balance emphasizes practical strategies to reduce fear of falling and increase activity levels. Participants learn to view falls and fear of falling as controllable, set realistic goals to increase activity, change their environment to reduce fall risk factors, and exercise to increase strength and balance.



Special Events

Bay County Division on Aging is the resource for various Special Events and Programs for the older adult. The Special Events for Seniors and Special Programs for Older Adults enable Bay County seniors to enjoy cultural, educational and recreational events and to be recognized as valued members of the community

Some of the special events offered:

- Movie and Lunch Series at the Bay County Library Systems
 - Dinner Theatre, Bay City Players
 - Country Fireside Picnic
 - Dow Gardens Tour
 - Dinner Theatre, Local High Schools
 - Variety of Educational In-Services- Caregiver Program and Volunteer Programs
- All of the special events were accompanied by a breakfast, lunch or dinner.

The Division on Aging served 3,814 meals through special 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 the Division on Aging office and conducted by Case Managers that are Medicare Medicaid Assistance trained counselors.

Number enrolled in new plans	Total
Clinics	42
Walk ins	20
Numbers staying with current plans	Total
Clinics	29
Walk ins	17

Holiday Gift Baskets

In cooperation with the Bay County Food Network the Division on Aging delivered 72 holiday food boxes to 36 homebound clients.

Outreach to Victims of Abuse in Later Life

In 2014, Outreach & Strategic Services Plan was submitted and approved by the Office on Violence Against Women. This allowed the Division on Aging to implement services to older victims of abuse. A priority for the plan was to inform the public that abuse of older adults was a problem in Bay County, along with how to recognize and report it and where to find help. To accomplish this, a marketing and outreach campaign was prepared. Brochures, posters, and wallet cards were developed and ads were designed for awareness and education. In addition, contacts were made for ad placement in: the Bay City Times, Valley Farmer, Pinconning Journal, WSGW radio and other media. By fall of 2014, distribution of posters and brochures had been initiated across Bay County in addition community presentations were delivered by staff.



[New Case Manager for Abuse in Later Life](#)

An important part of the strategic services plan was to hire a professional to work with victims of abuse. In 2014, Bay County's first Case Manager for older victims of abuse was hired. The Case Manager is uniquely attuned to the issues surrounding older residents who have experienced abuse. The goal is to ensure that these victims can live independently so they do not have to return to their abuser.

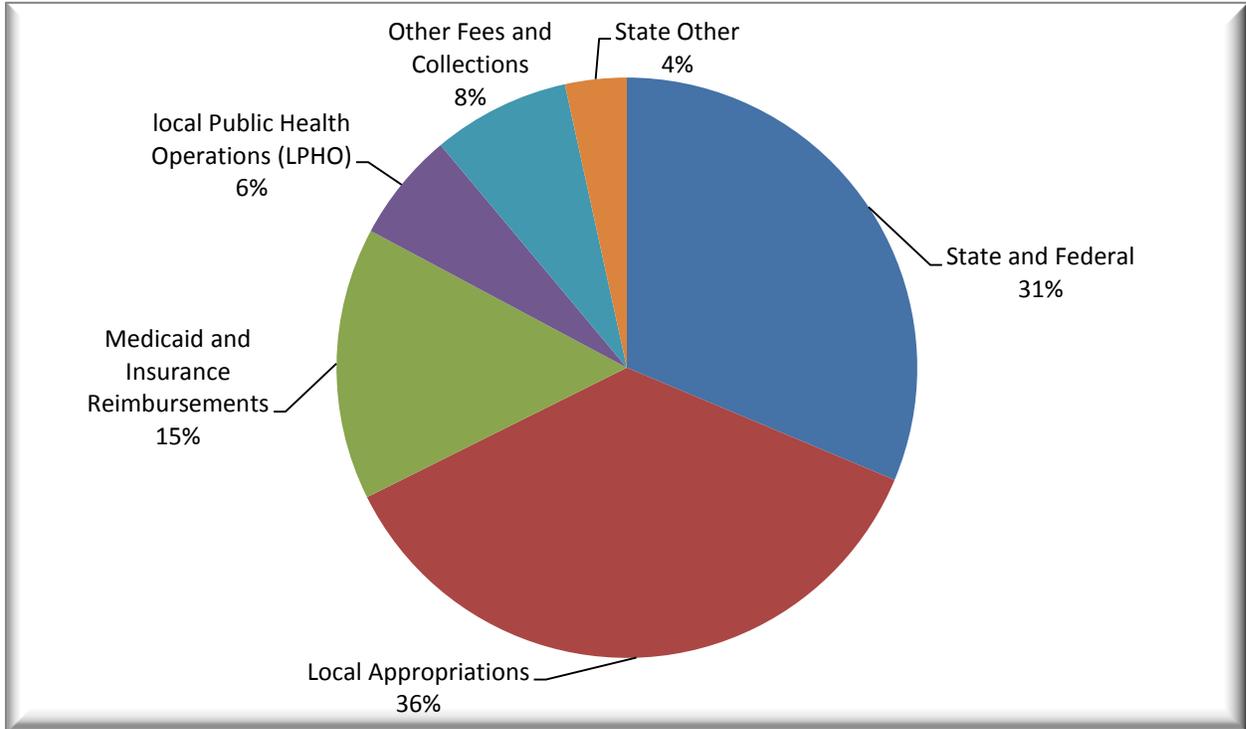


[Award Winning Bay County Vulnerable Adult Protocol Developed](#)

The Bay County Vulnerable Adult Protocol was developed and signed by city and county law enforcement leaders, the Director of the Department of Health and Human Services for Bay County and the Prosecutor for Bay County. The protocol provides a framework of "best practices" for agencies to use today and in the future when investigating cases of suspected vulnerable and older adult abuse. It also helps to strengthen relationships between law enforcement, adult protective services and the Bay County Prosecutors Office. The Bay County Vulnerable Adult Protocol was a recipient of the 2014 Bay County Human Services Collaborative Council Award.

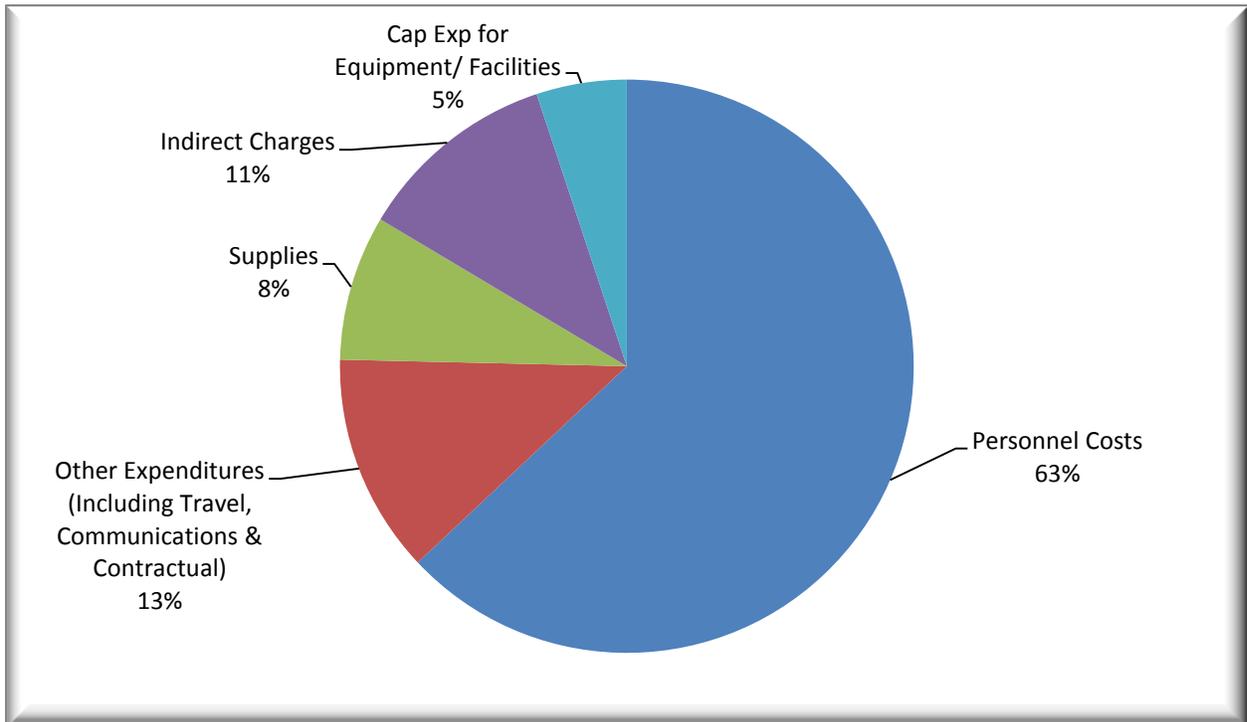
Bay County Health Department Financials

Fiscal Year End 9/30/2014 Revenues



Health Department Revenue	
State and Federal	\$1,134,824
Local Appropriations	\$1,315,641
Medicaid and Insurance Reimbursements	\$549,930
Local Public Health Operations (LPHO)	\$221,211
Other Fees and Collections	\$277,268
State Other	\$124,218
Total Revenues	\$3,623,092.00

Bay County Health Department Financials
Fiscal Year End 9/30/2013 Expenditures



Health Department Expenditures	
Personnel Costs	\$2,282,419
Other Expenditures (Including Travel, Communications & Contractual)	\$448,115
Supplies	\$296,806*
Indirect Charges	\$411,337
Cap Exp. for Equipment/ Facilities	\$184,415
Total Expenditures	\$3,623,092.00

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

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