

2016 Annual Report







Designed and Edited by Tracy Metcalfe and Liz Warmbier

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Main Location

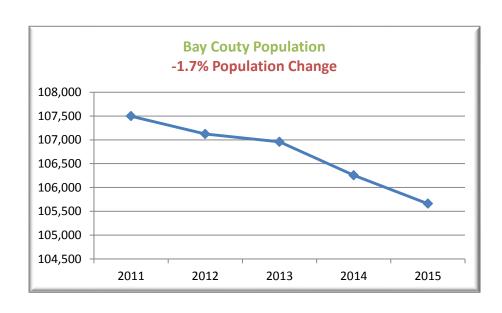
1200 Washington Avenue Bay City, Michigan 48708 Ph: (989) 895-4003 Fax: (989) 895-4014

www.baycounty-mi.gov/Health

Pinconning Clinic

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





Bay County Profile (2015)

Population 105,659 Male 52,113 Female 53,546

Births (2013) 1,019 Deaths (2013) 1,220

Unemployment Rate 5.5 (2016 – Bureau of Labor Statistics 12 month Average)

Page (2015)		Ago (201E)	
Race (2015)		Age (2015)	
White	101,296	Under 18	21,934
Black	2,689	18-44	33,297
Native American	810	45-64	30,586
Asian/Pacific Islander	864	65+	19,842
Hispanic Origin	5,409		

Causes of Death (Crude Numbers from 2015)

Heart Disease	411
Cancer	267
Chronic Lower Respiratory Disease	82
Stroke	53
Alzheimer's	27
Unintentional Injury	43
Diabetes	27
Kidney Disease	32
Intentional Self-harm (Suicide)	23
Pneumonia & Influenza	19

This report highlights public health services indicators for the year 2016. 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.

Since taking office as Bay County Executive in January 2017, I have identified key priorities for my administration. Providing quality services to the residents of Bay County is one such priority. The Bay County Health Department continues to grow to meet the needs of our community by partnership with area agencies and providers to offer excellent health care, health education and awareness, programs for the uninsured, health services for veterans, and other areas of need to our residents.

I offer my sincere congratulations to Joel Strasz and the excellent staff of the Bay County Health Department for continuing these efforts for the betterment of our community and the people we serve.

~ Jim Barcia, 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

To the Citizens of Bay County:

On behalf of the Bay County Board of Commissioners I am happy to comment briefly on the 2016 Bay County Department of Community Health Annual Report.

The Bay County Board of Commissioners is extremely proud of the programs provided by the Bay County Department of Community Health and the staff who, under the direction of Health Officer Joel Strasz, carry out these programs with efficiency, commitment, dedication and respect. With dwindling financial assistance and resources, the Health Department continues to effectively serve this community without jeopardizing the health and safety of its populace. This is both commendable and praiseworthy. The 2016 Bay County Department of Community Health Annual Report reflects the success achieved through their efforts.

Thomas Herek, Chair Bay County Board of Commissioners



A Message from the Health Officer

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 (BCHD), I am very pleased to present the 2016 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 Bay County Health Department has worked 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 cause disease, disability or injury. Because of this, many people do not recognize the important role public health plays in their daily lives. Nevertheless, we are proud to share with you our accomplishments:

- FIGHTING OPIOID ADDICTION We are still battling the number of accidental overdoses and deaths due to
 opiate addiction. We are pleased to report that Narcan (Naloxone) was distributed to <u>all</u> first responders in the
 county. And while we still have a ways to go to turn the tide on the number of persons who are addicted, our
 efforts to expand medically assisted treatment are recognized by many communities throughout the state for
 our demonstrated leadership in this crisis.
- **EXPANDING PARTNERSHIP AND SERVICES** The partnership with Saginaw Valley State University continues with the expansion of the Bay Community Care Clinic (formerly the University Clinic.) We are happy to report that the clinic's operations have expanded with a new and innovative partnership with Bay Arenac Behavioral Health to integrate mental health care into clinic services. Preliminary data reports that clients using the Clinic have seen significant improvements in hypertension and diabetes, and an overall 46% decrease in unnecessary emergency room visits.
- ENSURING A SAFE ENVIRONMENT Our partnerships with the Michigan Department of Environmental Quality
 and SVSU continues as we engage in groundbreaking work on rapid testing of local beaches and rivers and
 looking to find and remediate the sources of bacterial contamination.
- IMPROVING THE HEALTH AND WELL BEING OF OUR RESIDENTS For all of the good in Bay County, we face serious challenges with the health and well-being of our residents. To meet these needs and challenges we are working diligently with local providers to promote wellness, prevention and well-being. One promising program that we have piloted is the Prescription for Health program that works with local primary care providers, farmers markets and other to promote nutrition and increased consumption of healthy fruits and vegetables.

BCHD 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. The second round of the Bay County Community Health Assessment, in which data was collected from secondary sources, was completed in 2015. A phone survey completed in mid-2016 indicates that while issues such as chronic diseases and problems with access to care still abound, the number of adults without health insurance has dropped to 5%, one of the lowest rates in the State of Michigan. BCHD continues to develop a Community Health Improvement Plan to provide a roadmap to better health for all of Bay County residents. In sum, these efforts will help us effectively develop and provide services that truly meet the needs of Bay County residents.

The mission of BCHD is to protect and promote a healthy community and safe environment by providing quality services through all stages of life. 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, MPA Health Officer

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Environmental Health Services

Food Service

Food Service Program Information:

Food establishments and vending locations, which dispense food and drinks to the public, are routinely inspected by the Health Department.

	2014	2015	2016
Plans Received for Review	9	4	8
Plans Approved	5	7	9
Consumer Complaints	45	33	41
Foodborne Illness Complaints Investigated	12	8	9
Fixed Food Establishments	711	668	684
Mobile, Vending, STFU, Temporary Food Establishment Inspections	149	138	143
Follow-up Inspections	175	111	111

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.

	2014	2015	2016
Number of Well Permits issued	50	55	51
Number of Pre-Drilling Site Reviews Completed	42	55	51
Number of Final Inspections of Newly Completed Water Well Systems	36	28	53
Number of Abandoned Wells Plugged	37	42	41

Well and Septic

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.

	2014	2015	2016
Number of Parcels Evaluated	84	86	89
Number of On-Site Sewage Disposal & Tank Permits Issued	66	50	74
Number of Complaints Investigated	19	0	13

Beach Monitoring

Beach Monitoring and Kawkawlin River Sanitary Survey Program:

For over twenty-five years, staff from the Bay County Health Department's Environmental Health Division has conducted the Bathing Beach/Surface Water Quality (BB/SWQ) Monitoring Program.

2016 Bathing Beach/Surface Water Quality - Sample Analysis Summary

	Beach, July Tuter Quanty July		
Station	Location of Sampling Station	Single-Day Sampling Events	Number of Exceedances
2	Saginaw River – Bay City	13	0
3	Wenona Beach	15	1
4	Kawkawlin River	14	3
5	Bay City State Rec Area	35	1
6	Brissette Beach	35	1
7	S. Linwood Beach	39	2
8	Pinconning Park	13	0
	Total	164	8

Household Hazardous Waste

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.

Health Education

Community Health Assessment

The Bay County Health Department, in partnership with the Bay Health Plan, contracted with Lake Research Partners once again to complete the Bay County Phone Survey among 500 Bay County Residents. The phone survey data will be incorporated with the existing health assessment data. The results of the Community Health Assessment, as well as the phone survey, can be found on the Bay County Health Departments webpage at www.baycounty-mi.gov/health. The next phase of the health assessment process is to revise the existing health improvement plan. The BCHD will work collaboratively with McLaren Bay Region, Bay Health Plan, Bay Arenac Behavioral Health Authority, the United Way of Bay County and the Community Foundation to review the existing plan and provide recommendations for updates.

Eat Safe Fish Program

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. Through the Eat Safe Fish and Wild Game program, Health Educators participated in numerous outreach events and provided education and presentations to organizations and events in the Tri-County area.

Diabetes Prevention Program

The Bay County Health Department is partnering with the <u>Michigan Health Improvement Alliance (MiHIA)</u> to provide the Diabetes Prevention Program (DPP) for Bay County residents. This is a <u>FREE</u> program for adults in Bay County who have pre-diabetes and are at risk of developing diabetes.

The DPP is year-long program, which consists of 16-weekly core sessions followed by 6-monthly post-core sessions. Participants are taught strategies for incorporating physical activity into daily life and eating healthy. Sessions meet for 1 hour. http://www.baycounty-mi.gov/health/Diabetes-Prevention-Program.aspx

Two Health Educators have been training as Lifestyle coaches to facilitate the program, and one Health Educator has been trained as a Master Training. As a Master Trainer she will be able to train other lifestyle coaches in the area to facilitate the program. Three programs are currently being facilitated with a total of 12 out of 36 reaching the goal of reaching 5-7% weight loss.

	Program Completed (Y/N)	Session Number (If Not Completed)	Total Number of Pounds Lost	Total Percent of Weight Lost
Class 1	Υ	-	137	54.87%
Class 2	N	Post Core Session 3	142.6	67.26%
Class 3	N	Core Session 16	109.1	56.72
Class 4	N	Core Session 13		

Maternal and Child Health Programs

Childhood Lead Education and Screening

The BCHD continues to screen all children for Elevated Blood Lead Level (EBLL) through the WIC program at 12 and 30 months old. In addition, the BCHD Laboratory receives referrals and completes testing for lead screenings. During 2016, BCHD made one PHN HV for lead case management and a child with a BLL of 10 mg/dl or greater. During this period 10 children were close to childhood lead case management by the

Blood Lead Levels Greater than 10mcg/dl – Action Taken	2014	2015	2016
Families Contacted	50	45	47
Home visits	8	4	1
Medical Provider Contacts	29	7	6

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. This program provides case management, care coordination, and referrals for specialty care or community agency-based services, for children and families in Bay County.

Children's Special Health Care Program Data	2014	2015	201
Number of Families enrolled	320	338	332

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.

	Vision		Hearing	
	2014/2015	2015/2016	2014/2015	2015/2016
Preschool (children 3-5)	1,078	1,244	1,094	1,259
School Age (grades K-12)	6,662	6,332	3,920	3,823
Total	7,740	7,576	5,014	5,082

Maternal Infant Health Program

Maternal Infant Health Program is a home visiting program that focuses on the maternal infant dyad to promote healthy pregnancies, good birth outcomes and healthy infant development through the services of a Public Health Nurse and Social Worker.

Maternal Infant Health Program Data	2014	2015	2016
Number of New Maternal Enrollees	102	61	49
Number of New Infant Enrollees	90	78	63

Women, Infants, 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.

WIC Program Data	2014	2015	2016
WIC Base Caseload	2,807	2,807	2807
Closeout Participation	2,646	2,636	2,586
% Closeout Participation to Base Caseload	94%	94%	94%
Redemption Dollars			
Project Fresh	-	-	\$4,184
Bay County Grocery Stores	-	-	\$1.65 million
WIC Program Appointments	2014	2015	2015
Certifications (including Priority Certifications)	1,772	1,751	1,831
Re-Certifications	1,764	1,802	1,711
CEVALS (New in 2013)	1,435	1,444	1,387
Infant Evaluation	597	574	581
Registered Dietitian Assessments	474	509	421
Breastfeeding Contacts	-	-	383
Nutrition Education			
• Onsite	1,499	1,384	1,367
 Online – wichealth.org 	2,412	2,254	2,411
Breastfeeding Education	-	-	136
Lead Screens	658	703	610
Project Fresh Coupons Issued	3,040	3,330	3,670

A Look Into the Bay County WIC Program



52.9%

Of babies born in Michigan enroll in WIC.

\$137,800 Locally in healthy foods every month.

86%

Of WIC families live below 150% of poverty.

45.2%

Of pregnant mothers enroll in WIC during their first trimester.

Over **2,600**

Clients are served each month.

WIC Families redeem

76.8%

Of their fresh fruits and vegetables benefits.

8.5% Of children are overweight

or obese.

6.6%

Of infants are born at a low birth weight.

50.5%

Of WIC mothers are overweight or obese preconception.

86% Of infants are breastfed at birth.

Public Health Clinical Division

Communicable Disease Program

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. In addition, aggregate reporting included 2,192 flu like disease and 2,554 gastrointestinal illnesses from schools/extended care facilities.

MICHIGAN DISEASE SURVEILLANCE SYST Disease Statistics		portable Comr	nunicable
DISEASE Statistics DISEASE	2014	2015	2016
Campylobacter	7	10	6
Giardiasis	1	2	1
Listeriosis	0	1	0
Salmonellosis	7	6	10
MENINGITIS DISEASE GROUP			10
	<u> </u>		
Aseptic Meningitis	7	14	4
Bacterial Meningitis	0	0	0
OTHER DISEASE GROUP			
Animal Bite	96	69	54
Botulism - Infant	0	0	0
Coccidioidomycosis	1	0	0
Creutzfeldt Jakob Disease	-	-	1
Cryptococcosis	1	0	0
Cryptosporidiosis	3	0	2
Guillain-Barre Syndrome	1	1	2
Influenza	12	23	93
Legionellosis	3	0	1
Norovirus	68	1	6
Shigatoxin producing E-coli	-	-	2
Shigellosis	-	-	8
Streptococcal Dis. Inv. Group A	6	2	4
Streptococuss Pneumoniae INV	-	-	6
STD GROUP			
Chlamydia	314	324	341
Gonorrhea	24	49	50
Syphilis	3	3	2
VACCINE PREVENTABLE DISEASE GROUP			
Mumps	0	0	0
Pertussis	15	2	5
Shingles	3	0	0
Varicella	3	1	2
VIRAL HEPATITIS			
Hepatitis B (Acute)	2	2	0
Hepatitis B (Chronic)	15	2	2
Hepatitis C (Acute)	0	1	1
Hepatitis C (Chronic)	74	51	70

Family Planning Clinic

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.

Program Data	2014	2015	2016
Number of Unduplicated Persons Receiving Services in Family Planning Clinic	680	610	530
Number of Encounters in Family Planning	1,438	1,397	1,310

Health Screening and Testing

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.

	2014	2015	2016
Clients tested for Sexually Transmitted Diseases (STD)	163	125	132
Clients Tested for Human Immunodeficiency Virus (HIV)	110	64	63

The number of individuals tested has decreased due to an increase of people with health insurance as a result of the Affordable Care Act.

Immunization Program

The Immunization Clinic provides immunizations to individuals in the community with an emphasis on the pediatric population. The Immunization Clinic 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.

Seasonal Influenza Immunizations	2014	2015	2016
Number of Seasonal Influenza Immunizations	841	624	690

Immunization Program Cont.

Number of Vaccines Provided

Vaccine	2014	2015	2016
DTaP	174	142	138
Dtap/IPV	135	118	128
DTaP-Hep B-IPV	235	144	136
DTaP-Hib-IPV	-	-	-
Hep A (Adult)	105	84	70
Hep A (Pediatric)	423	359	346
Нер А/Нер В	-	-	-
Hep B (Adult)	143	91	145
Hep B (Pediatric)	27	36	16
Hib-Pedvax	319	212	192
HPV	324	329	378
Influenza (seasonal)	841	624	690
IPV Dose	78	75	60
Meningococcal Conjugate	265	348	383
MMR	177	144	173
MMRV	149	132	144
Pneumococcal Conjugate PCV 13	382	727	220
Pneumonia PCV 23	7	8	7
Rotavirus	140	86	76
TB Testing tuberculin skin test	185	184	224
Td Adult Only	3	3	8
Tdap	372	382	366
Varicella	245	187	222
Zoster	-	25	14
Rabies	4	-	4
TOTAL	4733	4440	4140

Laboratory Services

The Bay County Health Department's Laboratory Services 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 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.

Laboratory Stats	2015	2016
Total Clinical Tests	1,744	1,836
Total Water/Non-Clinical Tests	1,080	1,304

Medical Examiner

		Autopsied Deaths		
	Dr. Hov	ward Hurt, Medical E	xaminer	
AGE		2014	2015	2016
0-10 yrs.		3	1	0
11-20 yrs.		4	8	1
21-30 yrs.		6	14	8
31-40 yrs.		14	16	18
41-50 yrs.		22	20	16
51-60 yrs.		16	25	25
61-70 yrs.		10	16	16
71+		13	7	3
	Total	88	107	87
Gender				
Male		57	78	61
Female		31	29	26
Cause of Death				
Blunt Force Trauma - Total		9	11	8
Auto Accident		6 (1 motor cycle) (1 pedestrian/auto)	9 (3 motor cycle)	5
 Industrial 		0	1	
• Falls		2	1	
Liver Disease		19	8	3
Homicide		2	1	-
Hanging		1	4 (1 Not Autopsied)	-
Cardiovascular		42	39	51
Drug Overdose		18	25	27
Gunshot		5	6 (5 Not Autopsied)	3
Drowning		1	1	-
Pulmonary Embolism		-	4	4
Cancer		-	-	1
Hypothermia		-	-	2
Manner of Death				
Accidental		21	26 (6 Not Autopsied)	10
Homicide		2	1	1
Indeterminate		20	25 (1 Not Autopsied)	22
Natural		39	54	45
Suicide		6	12 (4 Not Autopsied)	15
Alcohol/Drug Involved				
Alcohol		15	11	3
Cocaine		5	7	6
Hydrocodone		4	6	-
Methadone	T	4	5	-
Morphine		7	3	-
Oxycodone		2	0	-
Fentanyl/Carfentanyl		1	4	12
Morphine/Heroin		-	4	12
Cannabinoids		-	-	3

University Clinic

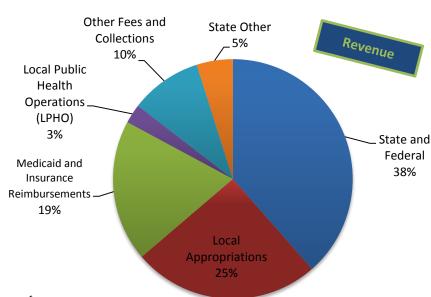
The University Clinic is a collaboration between the Bay County Health Department and Saginaw Valley State University's College of Health and Human Services. THE clinic is designed to meet the primary care health needs of families and individuals in our community, particularly those who suffer from multiple chronic conditions and do not have access to a regular medical provider.

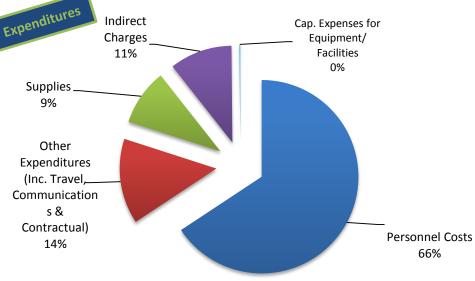
We believe that patients are best served when health care providers treat the whole person, not just the single symptom or condition. At the University Clinic, a patient receives the following services: Medical/Physical Health, Social Work, Occupational Therapy, and Pharmacy/Medication assistance.

Since the opening of the University Clinic, they have provided services for over 230 clinic visits.

Bay County Financials

Health Department Revenue			
State and Federal	1,377,426		
Local Appropriations	901,317		
Medicaid and Insurance Reimbursements	682,874		
Local Public Health Operations (LPHO)	92,564		
Other Fees and Collections	345,195		
State Other	174,846		
Total Revenues	3,574,222		





Health Department Expenditures			
Personnel Costs	2,348,351		
Other Expenditures (Inc. Travel, Communications & Contractual)	509,826		
Supplies	336,474		
Indirect Charges	374,260		
Cap. Expenses for Equipment/Facilities	5,311		
Total Expenditures	3,574,222		

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