## 2015

## Bay County Community Health Assessment

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## Population Trends in Bay County

## 2015 Bay County Community Health Assessment

## Bay County Total Population



Source: Michigan Department of Health and Human Services, Population Trends

Bay County continues to see a steady decline in population.


Source: Michigan Department of Health and Human Services, Population Trends


Source: Michigan Department of Health and Human Services, Population Trends


Source: Michigan Department of Health and Human Services, Population Trends

Bay County has the
highest senior population in the state.

Bay County continues to see a change in its demographic makeup with noticeable increases in the 55-84 year old age group.

65-74 year olds saw the largest increase in population at 4\%

The largest decrease in population was among 45-54 year olds at 3\%

## Bay County also continues to see a slight change in the demographic make up the county.

The African American and Asian populations have increased in Bay County by 4\% from 2012-2013


Source: Michigan Department of Health and Human Services, Population Trends

## Educational Enrollment and Attainment



> K-12 Enrollment continues to decline in Bay County

There was a $2 \%$ decrease in overall enrollment from 2012-2013

Source: U.S. Census Bureau, American Community Survey, 2009-2013

Even with an overall decrease in enrollment numbers, there has been an increase in numbers in kindergarten and elementary grades 1-8 in the past year.

Bay County K-12 School Enrollment Numbers


Source: U.S. Census Bureau, American Community Survey, 2009-2013


## Educational Enrollment and Attainment

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In 2013, Bay County saw an increase in 18-25 year olds who have graduated college.

Yet, those that received an Associate's Degree or attended some college decreased.

Source: U.S. Census Bureau, American Community Survey, 2009-2013

Looking at the population aged 25 and over, Bay County saw slight increases in those attending some college, or receiving an Associates or Bachelors Degree.

Some College or Associates Degree decreased among both males and females in 2013.

Educational Attainment - Percent Population Age 25 and Over Bay County - 2010-2013

$\square 2010$ $\square 2013$

Source: U.S. Census Bureau, American Community Survey, 2009-2013

Educational Attainment by Gender - 2010-2013

| Less than 9 $^{\text {th }}$ grade | Males - 2010 | Males - 2013 | Females - 2010 | Females - 2013 |
| :--- | :---: | :---: | :---: | :---: |
| High School Graduate | $19 \%$ | $14 \%$ | $11 \%$ | $16 \%$ |
| Some College or Associates Degree | $35 \%$ | $42 \%$ | $25 \%$ | $30 \%$ |
| Bachelor's Degree or Higher | $43 \%$ | $42 \%$ | $56 \%$ | $45 \%$ |

## Employment in Bay County

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As is expected with a declining population, the total population 16 and over has also slightly declined, thus lower the percent of people over 16 in the work force



The graph below illustrates the largest employers in Bay County over the last 3 years.

The top three employers for 2013 are as follows, McLaren Bay Region, Dow Corning Company, and Michigan Sugar Company.

$\qquad$

The graph to the right shows the percent change in the number of families in Bay County, as well as the per capita and mean incomes.

Overall, income has slightly increased among families in the last 3 years

Number of Households



The graph to the left illustrates the percent change in the number of households, as well as the mean and median incomes.

The percent of
households receiving benefits continues to increase.


All Tables Source: U.S. Census Bureau, American Community Survey, 2009-2013

## Poverty in Bay County

2015 Bay County Community Health Assessment



Female householders with children under 5 experience the greatest incident of poverty (64\%)



All Tables Source: U.S. Census Bureau, American Community Survey, 2009-2013


Poverty has clearly increased in Bay County over the last 3 years.

Poverty seems to be correlated with level of education completed and is most prevalent among those that did not graduate high school.


# Poverty in Bay County <br> 2015 Bay County Community Health Assessment <br> County <br> - HEALTH Department 



The Family Independence Program saw a dramatic decrease in total recipients between 2001 and 2013 with a steady decline through 2015.

Again, there were far more recipients from non-two parent families than twoparent families.

Source: Michigan Department of Health and Human Services, Trend Reports



Source: Michigan Department of Health and Human Services, Trend Reports

# Maternal and Child Health in Bay County 

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Live Births - Bay County 2009-2013
Bay County continues to experience a decline in the number of births.


The graph to the left shows the number of estimated pregnancies and the number of live births. Bay County has seen a decrease in both since 2009 among all age groups.
33.5\% decrease in
babies born to mothers who did not graduate high school
20.6\% decrease in

Babies born to mothers with only high school diploma


Source (All Tables): MDHHS, Natality and Pregnancy, 2009-2013

# Maternal and Child Health in Bay County 

2015 Bay County Community Health Assessment

The teen pregnancy
rate has dropped
significantly from
2009 with only a
slight increase from
2012-2013



As indicated in the graph to the left, planned or initiated breastfeeding rose $20 \%$ in the last 4 years.

31\% of mothers
report smoking while pregnant

The data in the graph to the right has remained very consistent over the years.

The majority of births in Bay County are single births.

Only 7\% of live births in Bay County have a low birth weight.

11\% of babies born in 2013 were preterm.

Infant Characteristics as a Percentage of Live Births 2009 and 2013


Source (All Tables): MDHHS, Natality and Pregnancy, 2009-2013

## Maternal and Child Health in Bay County <br> 2015 Bay County Community Health Assessment



From 2010 - 2012, Bay County experienced and steady increase in low birth weight babies.

However, in 2013 Bay County experienced a $2 \%$ decrease in low birthweight babies.

Source: MDHHS, Natality and Pregnancy, 2009-2013


Even though the percent of babies with low birth rate has decreased, the percent of babies born with a low birthrate that had inadequate prenatal care increased and those


Source (All Tables): MDHHS, Natality and Pregnancy, 2009-2013

## Maternal and Child Health in Bay County



Source (All Tables): MDHHS, Infant Mortality, 2009-2013

From 2010-2012 the number of children living in poverty slightly decreased.

In 2013 Bay County experienced a 3\% increase in children living in poverty.


Source: Kids Count Data, 2009-2013


The numbers of child abuse and neglect cases are continuing to rise in Bay County.

22\% increase in the number of families investigated.

19\% increase in confirmed victims.

21\% increase in out-of-home care

Source: Kids Count Data- 2009-2013

## General Health in Bay County



Source: MiBRFSS, 2008-2010 \& 2012-2014 (There is a 95\% Confidence Interval)

Even with the Healthy Michigan Plan, Medicaid and the Health Exchange, many individuals still have no health care coverage.

Those reporting the have no primary care provider also increased slightly.
$17 \%$ of adults report poor no health care coverage. (Increase from 15\% in 2011)


Source: MiBRFSS, 2008-2010 \& 2012-2014 (There is a 95\% Confidence Interval)

## General Health in Bay County

2015 Bay County Community Health Assessment


Bay County Michigan Top US Performers

These graphs illustrate the number of patients to provider ratios. As the graphs indicate, Bay County clearly has a need for more Primary Care Physicians, Dentists and Mental Health providers to adequately address the need in Bay County. Bay County falls well behind Michigan and the top US performers.


Source (All Tables): County Health Rankings

Heart Disease continues to be the leading cause of hospitalizations followed closely by injury and poisoning in Bay County.

In 2013 there were 1,973
hospitalizations for heart disease

Source: MDHHS, 2013

Hospitalizations are inpatient hospital stays as measured by stays that were completed during the specified year. The number of hospitalizations is often greater than the number of persons hospitalized since some persons are hospitalized more than once

Males tend to be hospitalized for heart disease more than females, where more females are hospitalized for injury and poisoning.

## 1,124 Males

 hospitalized for heart disease707 females were hospitalized for injury or poisoning.


Source: MDHHS, 2013

## Morbidity and Mortality



These graphs show the correlation between the number of hospitalizations and cause of death. The most hospitalizations occur for heart disease especially for those 50 and over, and subsequently the leading cause of death in Bay County continues to be heart disease.


Ambulatory Care Sensitive (ACS) Hospitalizations are those that are potentially preventable.

IN 2013 there was a total of 2,960 ACS hospitalizations with the majority occurring among 45-64 year olds and the least occurring among 18-24 year olds.

## 745 ACS hospitalizations among 45-64 year olds

Among 18-24 year olds most (42\%) ACS hospitalizations were diabetes related.

Among those younger than 18 years old, bacterial pneumonia (16\%) was the main cause of ACS hospitalizations


Source: MDHHS, 2013


24-44 year olds had 253 total ACS Hospitalizations in 2013. There was no one illness that was more prominent over another.

However, most of the hospitalizations were diabetes related (13\%) followed closely by Cellulitis (12\%).

Source: MDHHS, 2013
Chronic Obstructive Pulmonary Disease was the leading cause of ACS hospitalizations among 45-64 year olds, 6574 year olds, and 85 and over in 2013

Congestive Heart
Failure is the leading cause of ACS Hospitalizations among 75-84 year olds (20\%)


Source: MDHHS, 2013


Heart Disease is the leading cause of death among $75+$ year olds.
Cancer is the leading cause of death among 55-74 year olds.
Suicide is the leading cause of death among 25-54 year olds is suicide.


Source (All Tables): MDHHS, 2013


In 2013, the number of Suicides in Bay

County doubled.

Source: MDHHS, 2013

In 2013, 69\% of suicides were among 45-64 year olds.

Suicides have consistently been highest among this age group with the exception of 2010.



Source: MDHHS, 2013

# Health Insurance Coverage in Bay County 

2015 Community Health Assessment


Source: US Census, American Community Survey (1 year estimates)

These graphs show the correlation between employment and education, and being uninsured. Being uninsured is significantly higher among those that are unemployed. The lower an individual's education level the greater the chance they will be uninsured.


Source: US Census, American Community Survey (1 year estimates)

## Health Insurance Coverage in Bay County

2015 Community Health Assessment




# Health Behaviors in Bay County 

Preventive Care - Adults
2015 Community Health Assessment


Nearly 1 in 4 residents of Bay County Did Not
receive a routine checkup in 2013.

Even with the Health Exchange, 16\% report not having a primary care provider and $14 \%$ report not having access to health care
$\mathbf{8 1 \%}$ of adults surveyed
reported they have had their cholesterol checked.

Over half of adults who have had their cholesterol checked were told they had high cholesterol and 40 were told they had high blood pressure.


Nearly half of adults surveyed reported receiving the flu vaccine.

62\% reported receiving the pneumonia vaccine.

Source (All Tables): Michigan Behavioral Risk Factor Surveillance Report, 2013 (There is a $95 \%$ Confidence Interval)

# Health Behaviors in Bay County <br> Weight and Physical Activity <br> 2015 Community Health Assessment 

Measure of Weight Among Bay County Adults


The percent of overweight adults has increased by $14 \%$ over the last three years.

Over the last few years the trend has shifted somewhat. Obesity rates among adults have decreased while the percent of overweight adults has increased.

Adults reporting no leisure time physical activity has remained the same while those with activity limitations have slightly increased.



Only $\mathbf{1 1 \%}$ of adults report
they are getting the
recommended amount of fruits and vegetables

[^0]
# Health Behaviors in Bay County <br> Weight and Physical Activity <br> 2015 Community Health Assessment 




Although 60\% of middle and $57 \%$ of high school students report they are
getting the recommended amount of physical, $50 \%$ are overweight and $15 \%$ are obese.

Source (All Tables): Michigan Profile for Healthy Youth

# Health Behaviors in Bay County <br> Weight and Physical Activity <br> 2015 Community Health Assessment 



Among both age groups consumption of fruits and vegetables has decreased. Drinking 3 or more glasses of milk decreased among middle school students but increased slightly among high schoolers.

Pop consumption has decreased among both age groups, but so has the percentage of youth who eat breakfast.


# Health Behaviors in Bay County 

Alcohol, Tobacco and Other Drug Use
2015 Community Health Assessment


Source (All Tables): Michigan Profile for Healthy Youth

The percent of adults who smoke cigarettes decreased slightly by 4\%.


Source: Michigan Behavioral Risk Factor Surveillance System


However, the percent of women who repo9rt smoking cigarettes during pregnancy continues to increase.

# Health Behaviors in Bay County <br> Alcohol, Tobacco and Other Drug Use <br> <br> 2015 Community Health Assessment 

 <br> <br> 2015 Community Health Assessment}


Source: Michigan Behavioral Risk Factor Surveillance System

7\% of middle school students report using alcohol. This is a slight increase in from 20122014.



Health Behaviors in Bay County
Alcohol, Tobacco and Other Drug Use

## 2015 Community Health Assessment



Looking at other drug use, the drug most frequently used among middle school students from 2008-2012 was painkillers followed closely by inhalants and prescription drugs; however in 2014 it was any form of cocaine.

Among high school students the drug most frequently used is marijuana followed by painkillers.


Source (All Tables): Michigan Profile for Healthy Youth


[^0]:    Source (All Tables): Michigan Behavioral Risk Factor Surveillance Report, 2013 (There is a $95 \%$ Confidence Interval)

