

Tuscarawas County
Health Department
Community Health Needs
Assessment 2014

TUSCARAWAS COUNTY HEALTH DEPARTMENT

Community Health Needs Assessment
2014

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I. Introduction

The Tuscarawas County Health Department (TCHD) has developed this community health assessment. This report can be used as a tool to evaluate the overall health concerns of Tuscarawas County. The TCHD will utilize the information provided in this report to set public health priorities and establish a strategic plan to address community health concerns.

The information provided in this assessment was obtained primarily from The Ohio Department of Health (ODH) Information Warehouse, data from The Tuscarawas County Health Department (TCHD), Community Health Needs Assessment completed by Union Hospital in December 2013, and the 2008 Healthy Ohio Community Profile: Tuscarawas County completed by ODH. When possible state and local rates were obtained for comparison. In addition Healthy People 2020 targets were presented when available. Healthy people provides science-based, 10-year national objectives for improving the health of all Americans. Healthy People established benchmarks and will continue to monitor progress over time (www.healthypeople.gov).

The Tuscarawas County Health Department (TCHD) plans to collaborate with the coalition, AccessTusc, to conduct a comprehensive community health needs assessment on a regular cycle in the future. This will allow the health department to remain current on the most prominent health concerns in Tuscarawas County.

II. Demographics

This section provides an overall demographic and economic profile of Tuscarawas County. While Tuscarawas County shares many similar socio-demographic indicators with the state of Ohio, there are several key indicators that set the county apart:

- Tuscarawas County is a rural Appalachian county
- Lower median household and per capita income than the state
- Lower level of educational attainment than the state
- Racially more homogeneous

Table 1: Demographics

Demographics	2010 Census	Percent
Total Population	92,582	100%
<u>Sex</u>		
Male	45,491	49.1%
Female	47,091	50.9%
<u>Age</u>		
Under 5 years	5,682	6.1%
5 to 9 years	6,022	6.5%
10 to 14 years	6,344	6.9%
15 to 19 years	6,074	6.6%
20 to 24 years	4,916	5.3%
25 to 29 years	5,374	5.8%
30 to 34 years	5,298	5.7%
35 to 39 years	5,537	6.0%
40 to 44 years	5,787	6.3%
45 to 49 years	6,702	7.2%
50 to 54 years	7,247	7.8%
55 to 59 years	6,674	7.2%
60 to 64 years	5,753	6.2%
65 to 69 years	4,246	4.6%
70 to 74 years	3,516	3.8%
75 to 79 years	2,789	3.0%
80 to 84 years	2,361	2.6%
85 years and over	2,260	2.4%
Median age	40.9	-

Source: United States Census Bureau

Table 2: Race

Race	2010 Census	Percent
One Race	91,448	98.8%
White	89,393	96.6%
Black or African American	719	0.8%
American Indian/Alaskan	232	0.3%
Asian	289	0.3%
Other Pacific Islander	175	0.2%
Some Other Race	640	0.7%
Two or More Races	1,134	1.2%
White; American Indian	367	0.4%
White; Asian	114	0.1%
White; African American	416	0.4%
White; Some Other Race	112	0.1%

Source: United States Census Bureau

Table 3: Ethnicity

Hispanic or Latino	2010 Census	Percent
Hispanic or Latino	1,767	1.9%
Not Hispanic or Latino	90,815	98.1%

Source: United States Census Bureau

In 2008, Tuscarawas County was the 30th most populous county in Ohio (ODH). The race population distribution for Tuscarawas County has remained relatively unchanged from the 2010 census to the estimate in 2013. The ethnic distribution of Hispanic or Latino individuals has increased by 0.3% from 2010 to the estimate in 2013.

Table 4: Households

Households by Type	2010 Census	Percent
Total Households	36,965	100%
Family Households	25,318	68.5%
With Own Children Under 18	10,264	27.8%
Married Couple Family	19,968	54.0%
With Own Children Under 18	7,281	19.7%
Male Householder, No Female	1,720	4.7%
With Own Children Under 18	974	2.6%
Female Householder, No Male	3,630	9.8%
With Own Children Under 18	2,009	5.4%
NonFamily Households	11,647	31.5%
Householder Living Alone	9,819	26.6%
65 and Older	10,576	28.6%

Source: United States Census Bureau

The estimated population in 2013 has increased slightly from 2010; which is also reflected in the estimated total number of households in Tuscarawas County. In 2010, there were 25,318 total households with an estimate of 39,863 total households in 2013. This reflects an increase of 13,945 units.

Table 5: Household Income and Benefits
(5 Year Estimates 2008-2012)

	Number of Household	Percent
Total Households	36,298	100.0%
Less than \$10,000	2,448	6.7%
\$10,000 to \$14,999	2,078	5.7%
\$15,000 to \$24,999	4,998	13.8%
\$25,000 to \$34,999	5,020	13.8%
\$35,000 to \$49,999	6,075	16.7%
\$50,000 to \$74,999	7,367	20.3%
\$75,000 to \$99,999	4,300	11.9%
\$100,000 to \$149,999	2,900	8.0%
\$150,000 to \$199,999	613	1.7%
\$200,000 or More	499	1.4%
Median Household Income	\$43,869	

Source: United States Census Bureau

The 2008-2012 median household income for Tuscarawas County was \$43,869 which is \$4,377 below the Ohio median household income of \$48,246 and almost \$10,000 below the United States median income of \$53,046.

Table 6: Health Insurance Coverage (5 Year Estimates 2008-2012)

	Number	Percent
With Private Coverage	64,027	61.4%
With Public Coverage	28,119	26.9%
With No Coverage	12,114	11.7%

Source: United States Census Bureau

Healthy People 2020 target is to have 100% of all populations insured by either public or private health insurance.

Table 7: WIC Enrollment 2011-2013

Year	Number of New Clients
2013	1,283
2012	1,214
2011	1,202

Source: Tuscarawas County Health Department WIC Program

**Table 8: Educational Attainment
(5 Year Estimates 2008-2012)**

	Number	Percent
Less than 9 th Grade	3,052	4.8%
9 th to 12 th Grade, No Diploma	5,837	9.2%
High School Graduate	31,124	49.0%
Some College, No Degree	10,262	16.2%
Associate's Degree	3,884	6.2%
Bachelor's Degree	6,073	9.4%
Graduate or Professional Degree	3,237	5.2%

Source: United States Census Bureau

49% of the population in Tuscarawas County identifies being high school graduate and 14.6% having completed a bachelor's degree or higher. Across the state of Ohio, 88.2% of individuals have a high school diploma and 24.7% have a bachelor's degree or higher.

Socioeconomic status (SES) underlies three major determinants of health: health care, environmental exposure, and health behavior. In addition, chronic stress associated with lower SES may increase morbidity and mortality (Ader and Newman, 2014). Thus it is important to continue to monitor the ever-changing demographics of any given community and the relationship between SES and current morbidity and mortality trends.

III. Mortality and Morbidity Indicators

This section provides a summary of major causes of morbidity and mortality among Tuscarawas County residents.

A. Mortality

Actual number of deaths for the leading causes of death in Ohio established by the Ohio Department of Health are presented below.

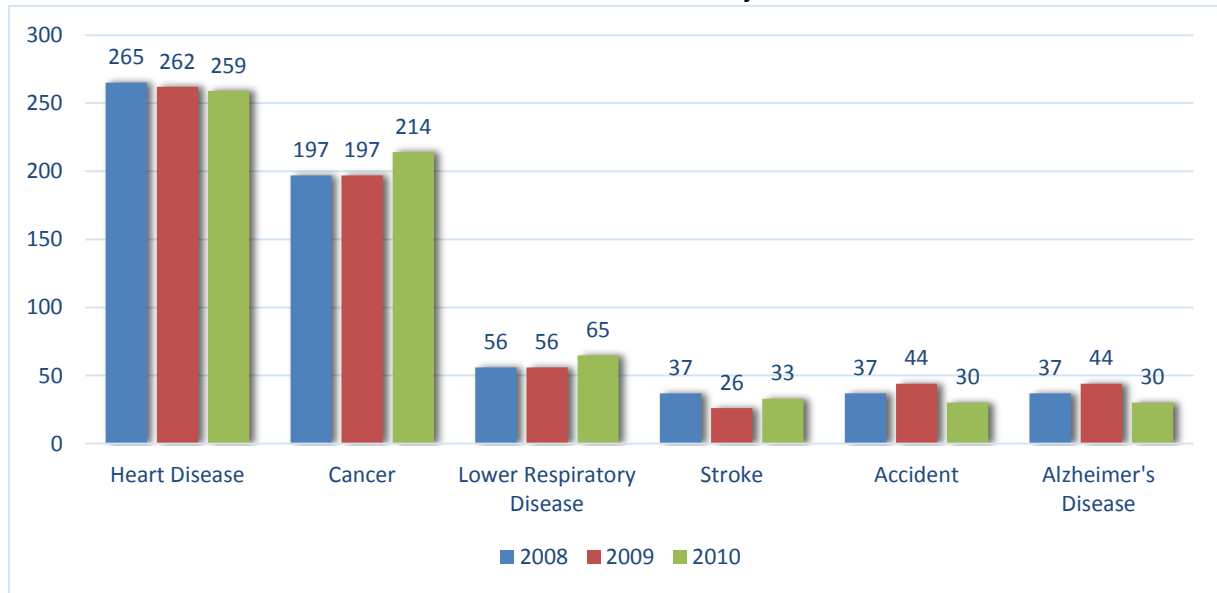
a. Leading Causes of Death in Ohio

Table 9: Leading Causes of Death in Ohio
Actual Tuscarawas County Cases

Cause of Death	2008	2009	2010
Heart Disease	265	262	259
Cancer	197	197	214
Lower Respiratory Disease	56	56	65
Stroke	45	51	46
Accident	37	26	33
Alzheimer's	37	44	30

Source: Ohio Department of Health Information Warehouse

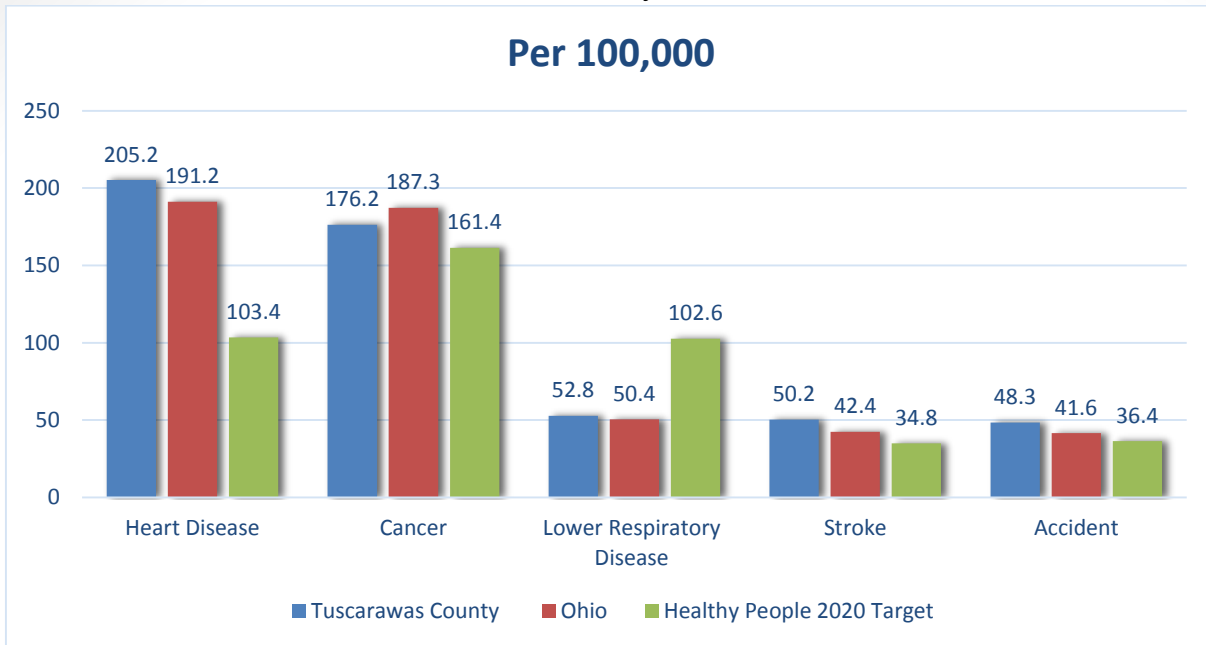
Chart 1: Leading Causes of Death in Ohio
Actual Tuscarawas County Cases



Source: Ohio Department of Health

From 2004-2006 in Tuscarawas County, on average, 909 residents died each year. The leading cause of death in the county continues to be heart disease followed by cancer.

**Chart 2: 2010 Leading Causes of Death Rates
Tuscarawas County versus Ohio**



Source: The Ohio Department of Health / Healthy People 2020

Healthy People 2020 have established targets for rates of all leading causes of death which Ohio and Tuscarawas County are currently not meeting in all areas except lower respiratory diseases.

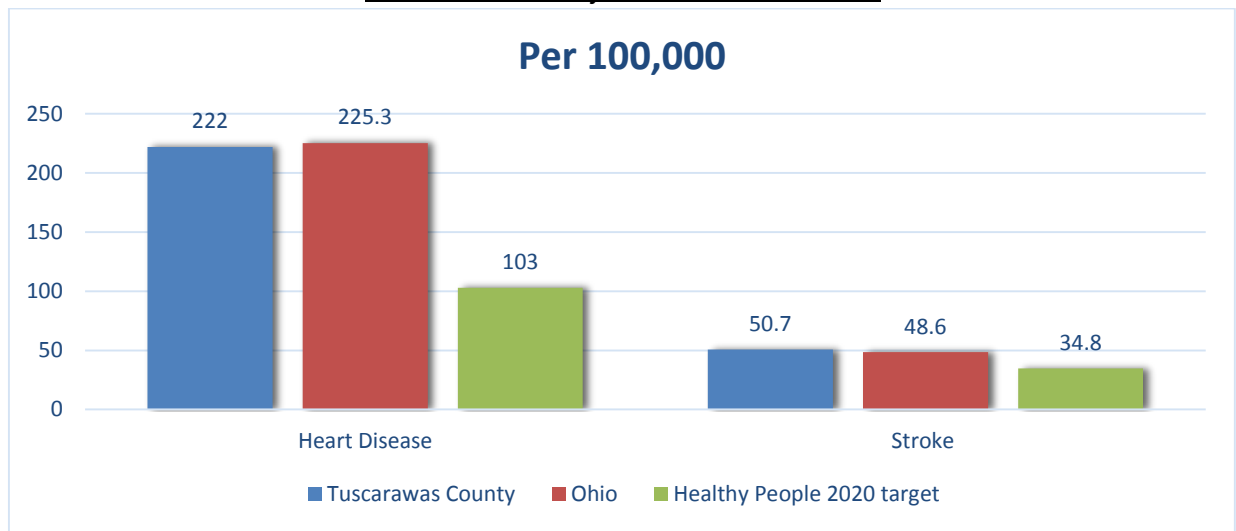
b. Leading Causes of Death in Tuscarawas County

The most common causes of death identified by the Ohio Department of Health in Tuscarawas County include:

- Heart Disease
- Malignant Neoplasms
- Chronic Lower Respiratory Diseases
- Cerebrovascular Disease
- Accidents
- Alzheimer's Disease
- Diabetes

1. Heart Disease and Stroke Mortality

**Chart 3: Death Rates for Heart Disease and Stroke
Tuscarawas County versus Ohio 2004-2006**

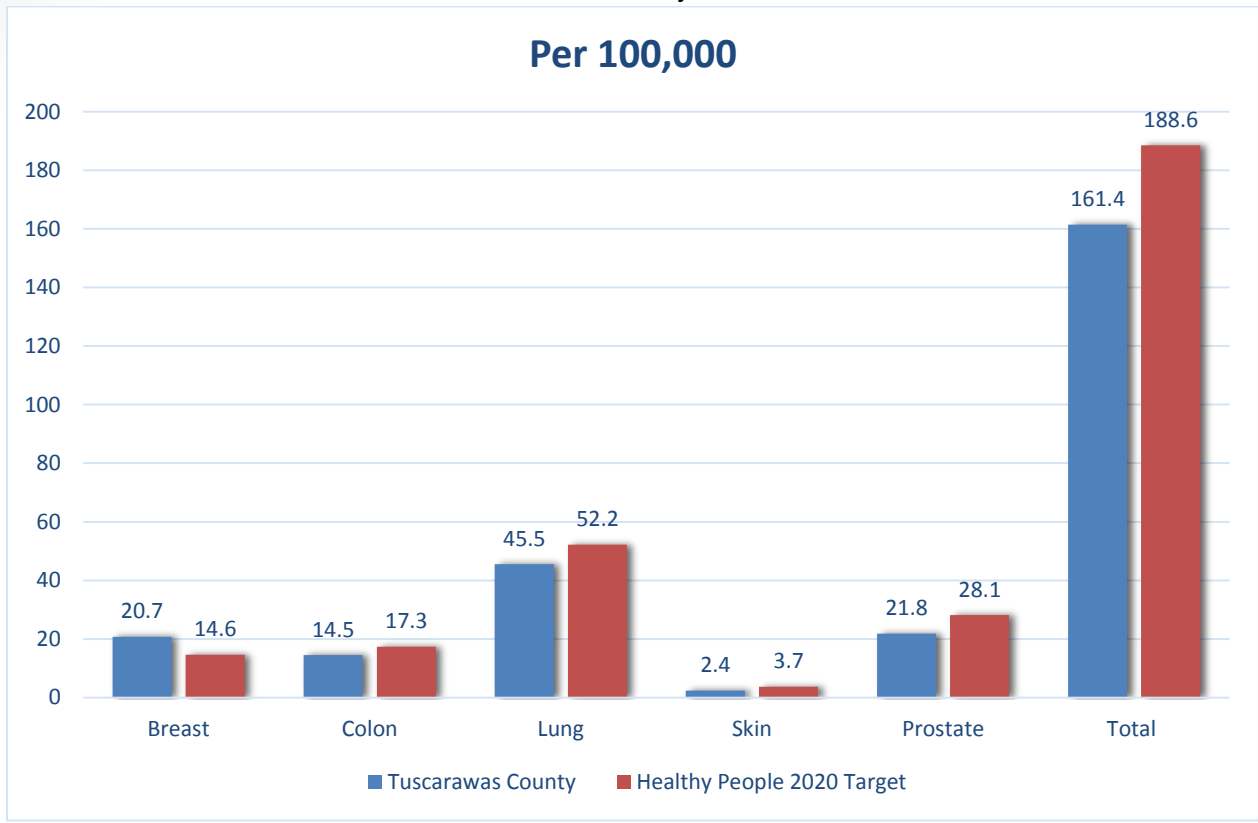


Source: Ohio Department of Health / Healthy People 2020

Heart disease is the leading cause of death in the United States, Ohio and Tuscarawas County (ODH). The risk of dying from a heart attack increases with age. Additionally, at older ages, females are more likely to die within a few weeks of having the attack compared to males (American Heart Association, 2008). Strokes can occur at any age but the risk of dying from a stroke increases as the individual ages; with the risk of having a stroke doubling every decade after the age of 55 (National Stroke Association, 2008).

2. Cancer Mortality

Chart 4: Death Rates by Cancer Types
Tuscarawas County 2001-2005

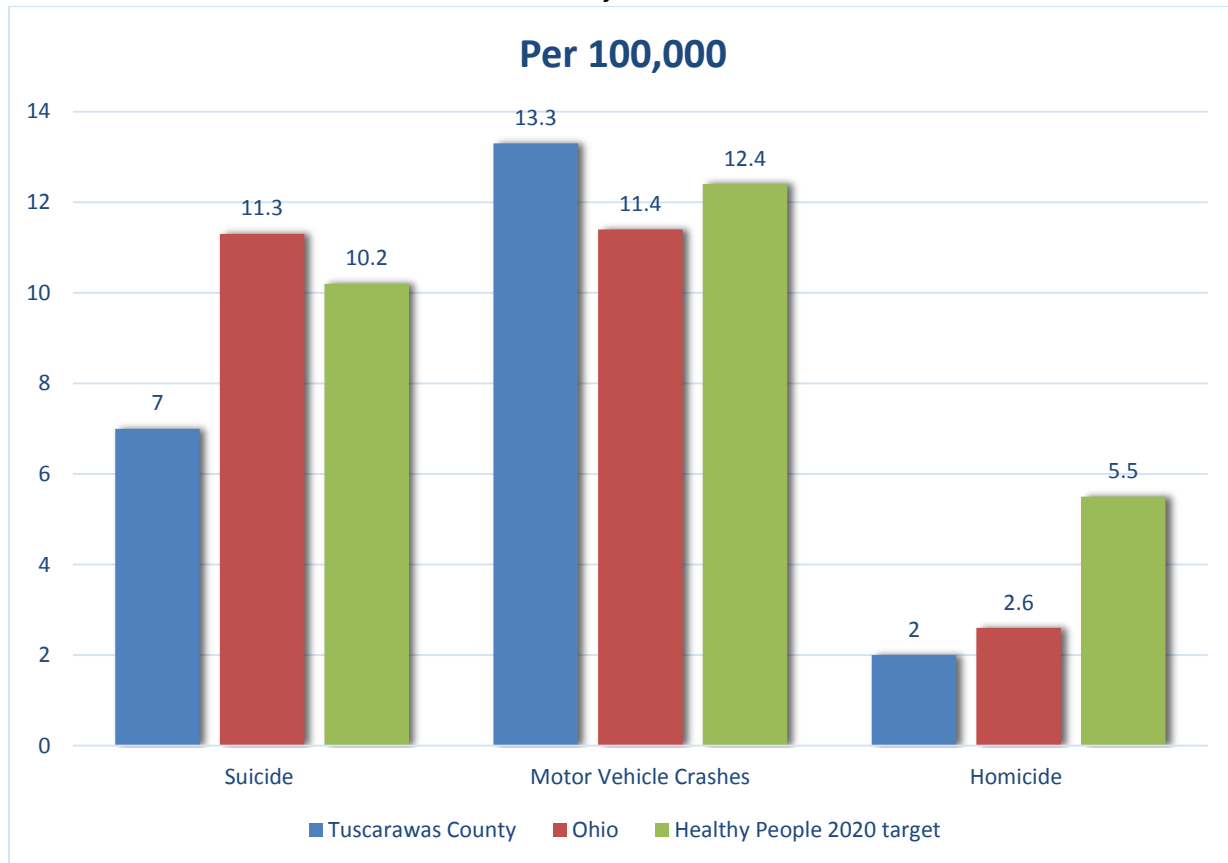


Source: Ohio Department of Health / Healthy People 2020

Based on death rate averages from 2001-2005 Tuscarawas County rates are consistently lower than Healthy People 2020 targets, except for breast cancer death rates (20.7 Tuscarawas County; 14.6 target).

3. Unintentional Injuries / Accidents

**Chart 5: Unintentional Injury/Suicide Rates
Tuscarawas County versus Ohio 2004-2006**

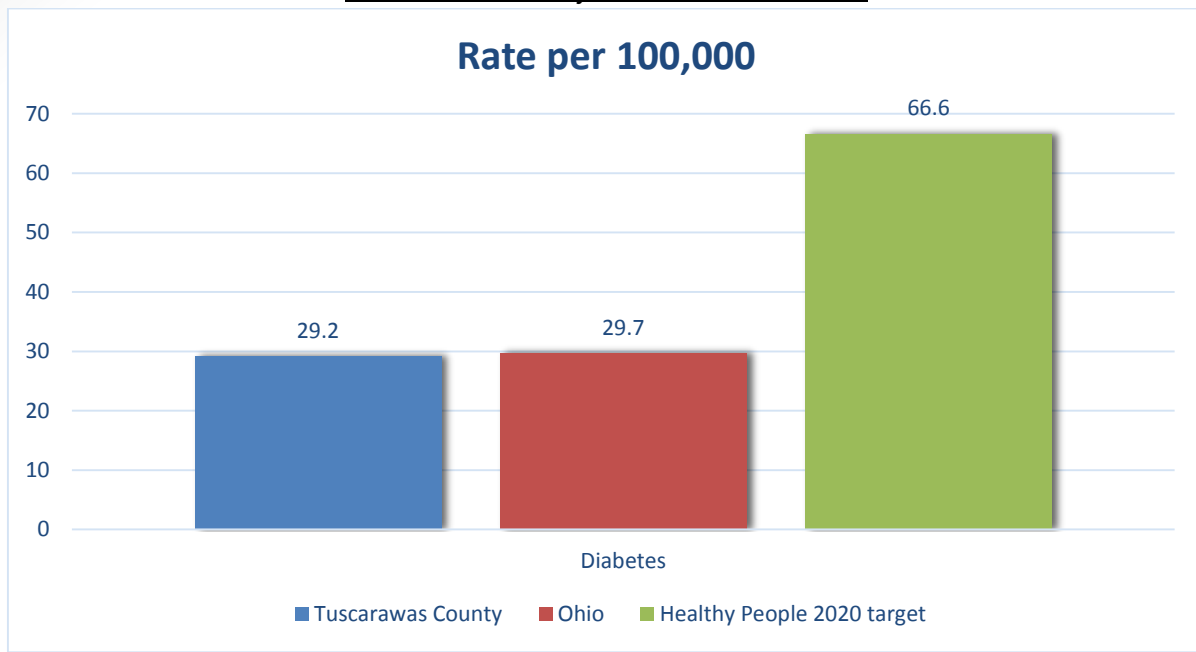


Source: Ohio Department of Health / Healthy People 2020

In the category of unintentional injury deaths Tuscarawas County has room for improvement in the rate of motor vehicle crashes which is above both the state rate and the Healthy People 2020 target. Suicide is the third leading cause of death for young adults 15-24 years old and the eleventh leading cause of deaths in the United States. Men commit suicide four times more often than women do, and 72% of all suicides are committed by white men (Payne et al., 2005). In recent years, Tuscarawas County has seen a decrease in the number of suicides and most recent data place the county well below the state rate of suicides.

4. Diabetes Mortality

Chart 6: Death Rates for Diabetes
Tuscarawas County versus Ohio 2004-2006



Source: Ohio Department of Health / Healthy People 2020

During 2004-2006, diabetes killed an average of 33 people in Tuscarawas County each year. While Tuscarawas County has remained below Healthy People 2020 targets the rate should continue to drop with proper education and medical care.

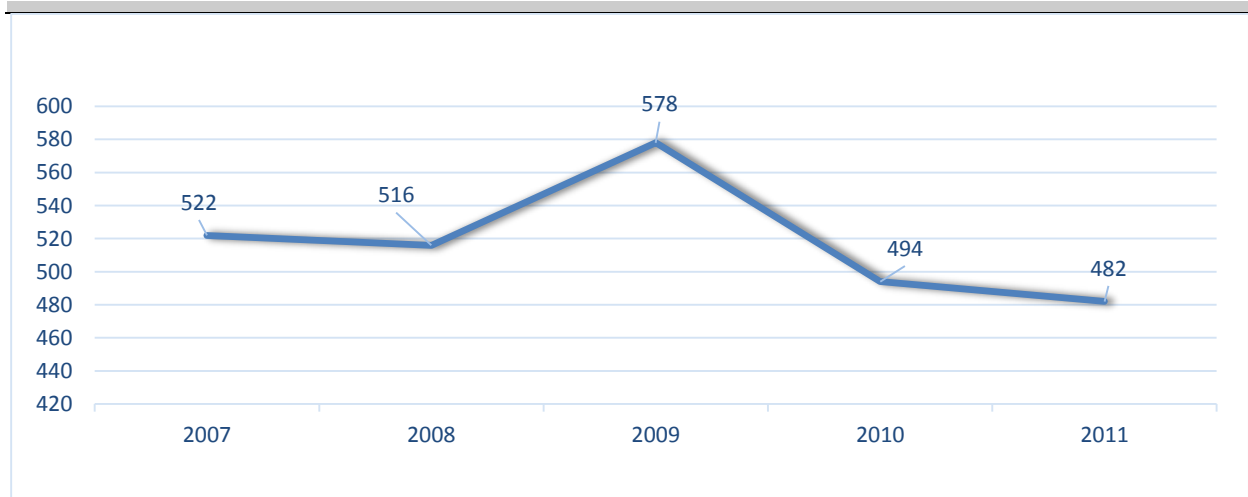
B. Morbidity

a. Cancer Incidences

**Table 10: Cancer Incidences in Tuscarawas County
2007-2011**

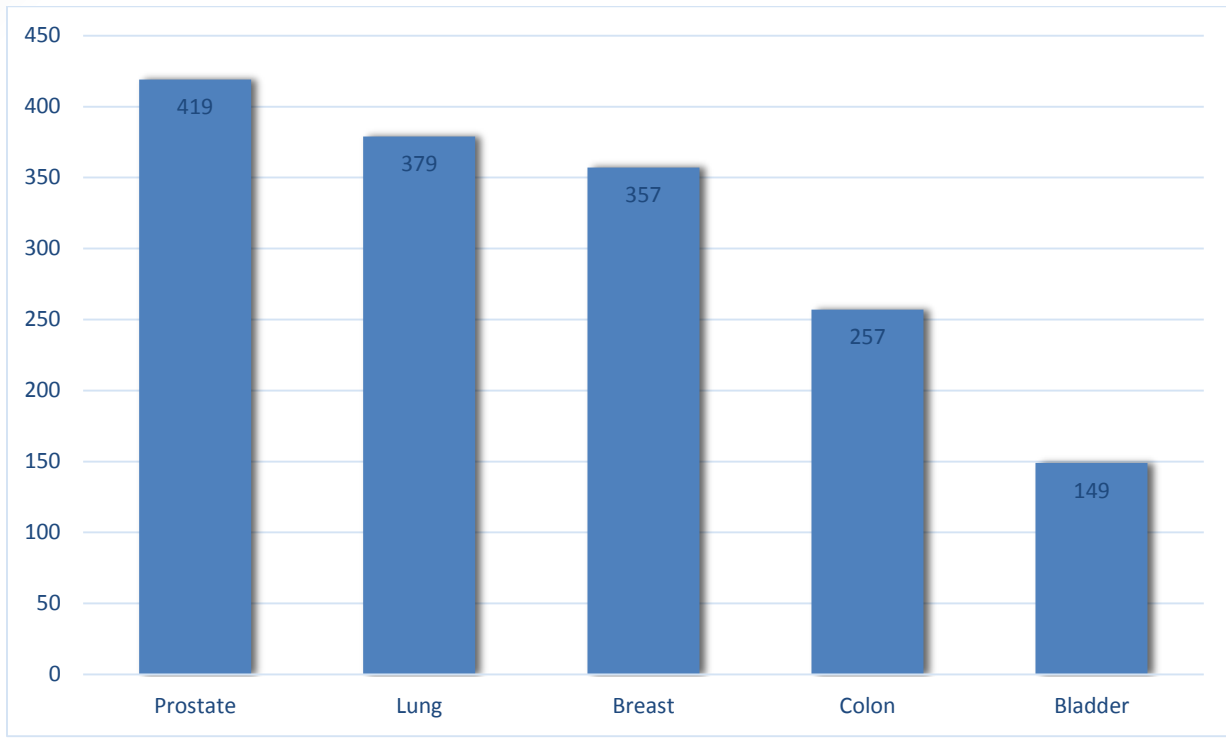
Type	2007	2008	2009	2010	2011	Total
Bladder	27	22	27	32	41	149
Brain	4	9	11	8	8	40
Breast	79	77	75	69	57	357
Cervix	4	4	7	3	3	21
Colon	53	47	57	59	41	257
Esophagus	3	7	10	7	3	30
Hodgkin's	7	4	3	1	2	17
Kidney	21	15	21	24	12	93
Larynx	3	7	7	6	8	31
Leukemia	11	19	19	4	11	64
Liver	3	3	5	6	5	22
Lung	81	77	76	69	76	379
Skin	23	12	29	21	17	102
Non-Hodgkin's	21	24	14	22	15	96
Oral	6	7	16	12	10	51
Other	33	34	42	33	29	171
Ovary	11	8	9	2	3	33
Pancreas	12	15	15	13	11	66
Prostate	87	91	82	65	94	419
Stomach	4	5	13	9	10	41
Thyroid	9	7	14	9	10	49
Uterus	20	22	24	20	16	102

Chart 7: Total Cancer Incidences in Tuscarawas County



Source: Ohio Department of Health

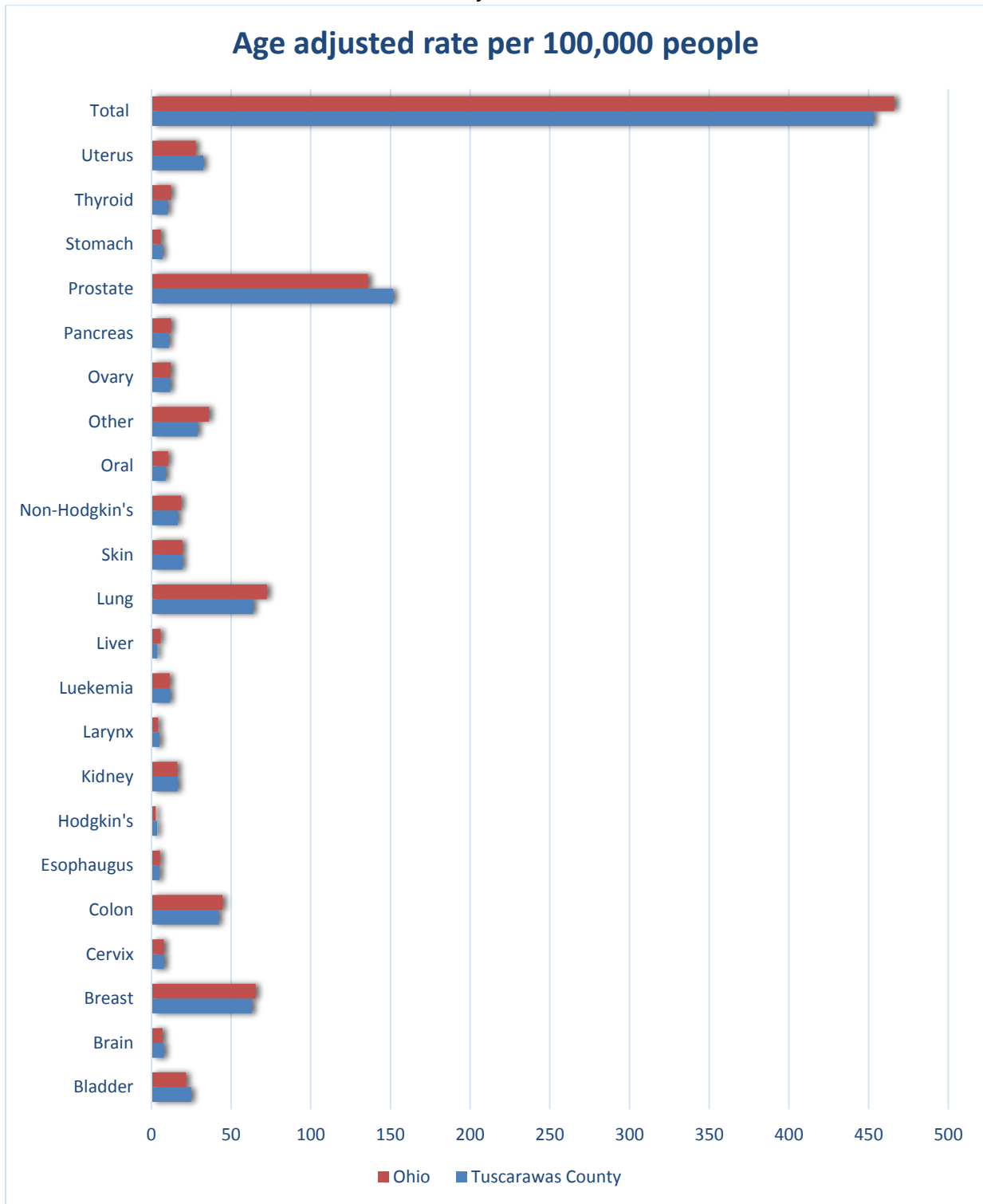
**Chart 8: Top 5 Most Diagnosed Cancers in Tuscarawas County
2007-20013**



Source: Ohio Department of Health Information Warehouse

It is estimated that 1,334,100 people developed cancer in 2003 in the United States and once diagnosed, approximately only 62% of this group will be alive 5 years later. The financial cost of cancer is also troublesome, the National Institute of Health (NIH) estimates that 171.6 billion dollars was spent in 2001 for loss of productivity, medical costs, and indirect costs related to recovery and treatment of cancer (Payne et al., 2003).

**Chart 9: Rates of cancer Incidences by Type
Tuscarawas County versus Ohio 2007-2011**



Source: Ohio Department of Health

Tuscarawas County has had a lower age adjusted rate of cancer incidences than Ohio from 2007-2011. Areas of concern are incidences of bladder cancer (24.8 vs 21.7), prostate cancer (151.7 vs 135.8), and uterine cancer (32.6 vs 27.8).

b. Health Conditions

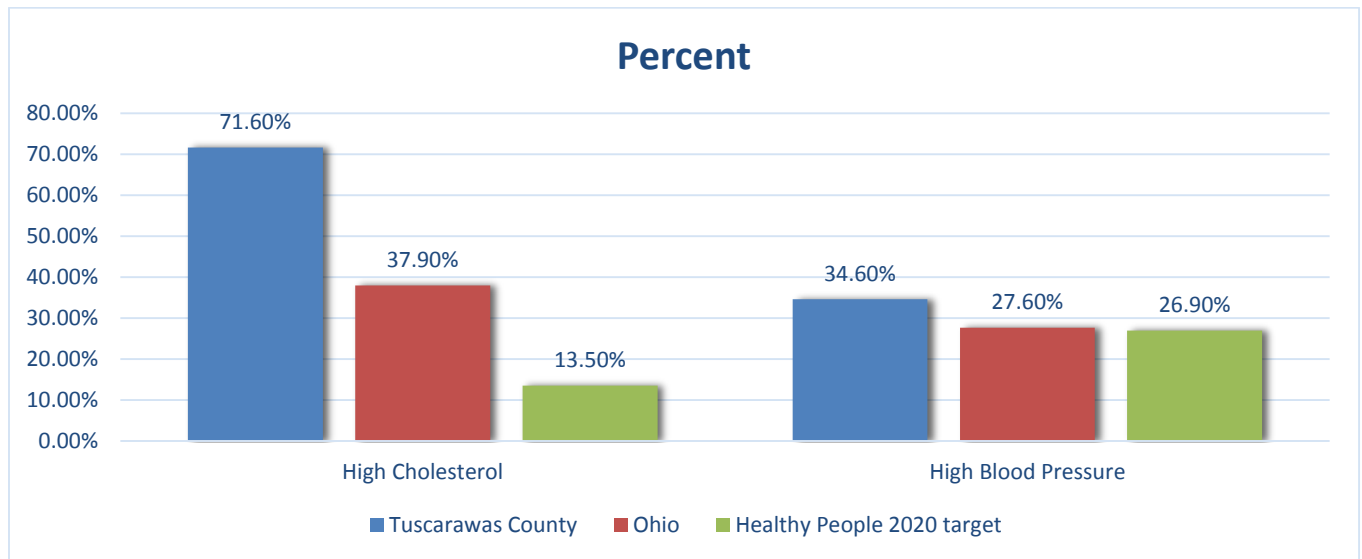
Table 11 and Chart 12 are based on information obtained from the Union Hospital Health Needs Assessment conducted in December 2013. A community survey was conducted via telephone with over 400 participants. Results are based on responses provided by the participants presented in percentages.

Table 11: Health Conditions

Health Condition	Percent of Individuals Diagnosed
High Blood Pressure	37.2%
High Cholesterol	31.3%
Mental Health Condition	18.6%
Respiratory Condition	16.4%
Diabetes	14.3%
Heart Disease	9.9%
Any Form of Cancer	8.4%
Heart Attack	5.1%
Stroke	4.3%

Source: Union Hospital Community Needs Assessment; 2013

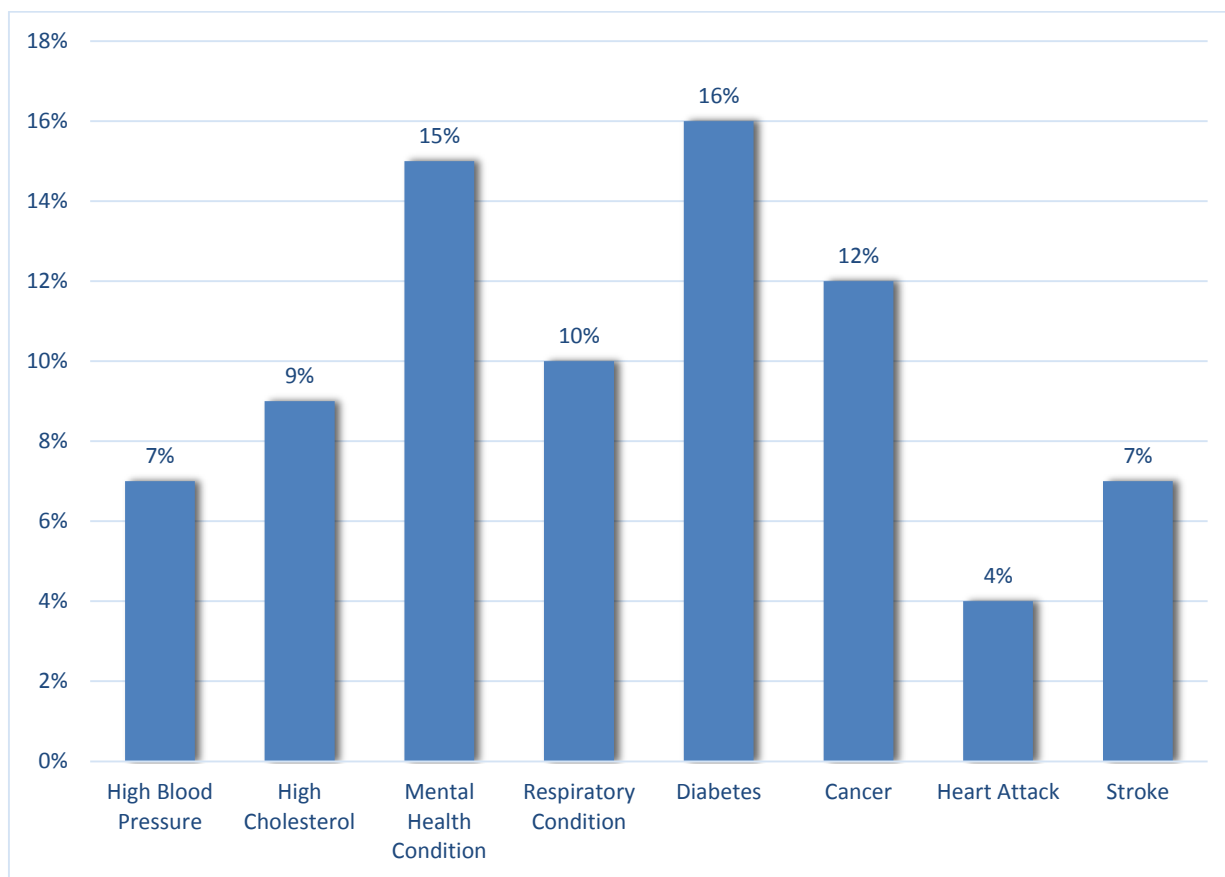
**Chart 10: Percent of Individuals Who Have Been Diagnosed with High Cholesterol or Blood Pressure
Tuscarawas County versus Ohio 2004-2007**



Source: Ohio Department of Health / Healthy People 2020

The high percentage of individuals in Tuscarawas County with high cholesterol is concerning and needs to be reduced by over 55% to meet the Healthy People 2020 objective.

Chart 11: Percent of Individuals Diagnosed with a Health Condition that feel they are NOT ABLE to Manage Care



Source: Union Hospital Community Needs Assessment; 2013

IV. Maternal and Infant Health

This section includes detailed data on perinatal health in Tuscarawas County.

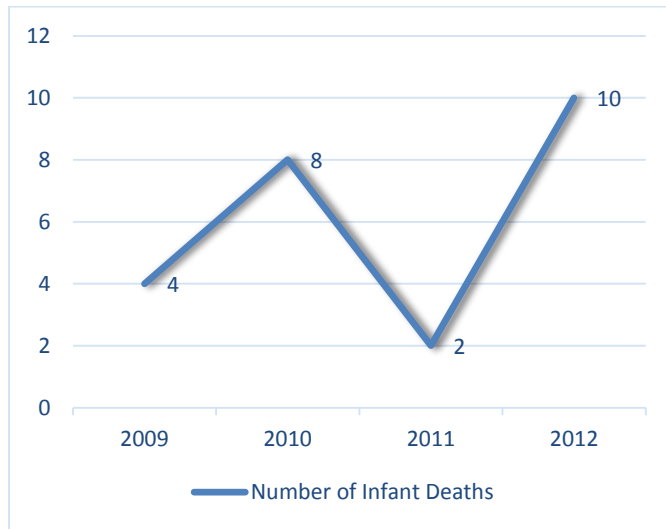
Table 12: Infant Births and Deaths

Year	Number of Live Births	Infant Mortality
2010	1083	8
2011	1107	2
2012	1117	10

Source: Ohio Department of Health Information Warehouse

Chart 12: Number of Infant Deaths in Tuscarawas County

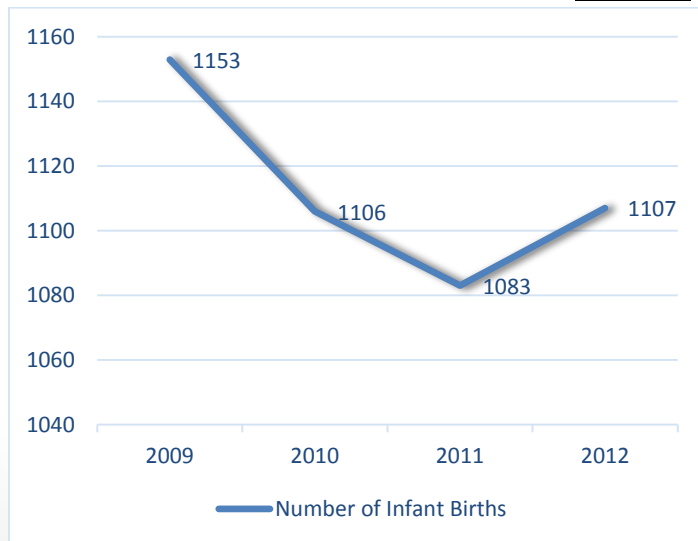
2009-2012



Infant mortality rates in Ohio have been decreasing. However, Tuscarawas County saw an increase of 8 infant deaths from 2011 to 2012. Additionally, the highest infant death toll was experienced in 2012 when looking at a four year window. This should be noted and continued to be monitored as more current data becomes available.

Chart 13: Number of Infant Births in Tuscarawas County

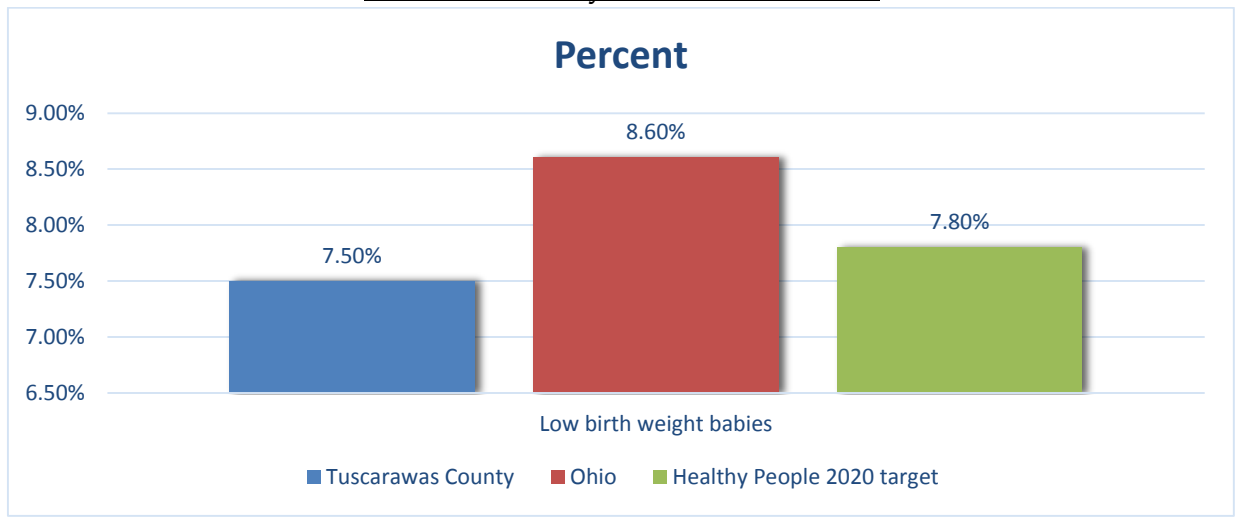
2009-2012



The number of live births in Tuscarawas County had been on the decline from 2009-2011. However in 2012, Tuscarawas County saw an increase of 24 live births. This is the number of births that occurred in this county not the number of county residents giving birth.

Chart 14: Percent of Low Birth Weight Babies

Tuscarawas County versus Ohio 2006-2008

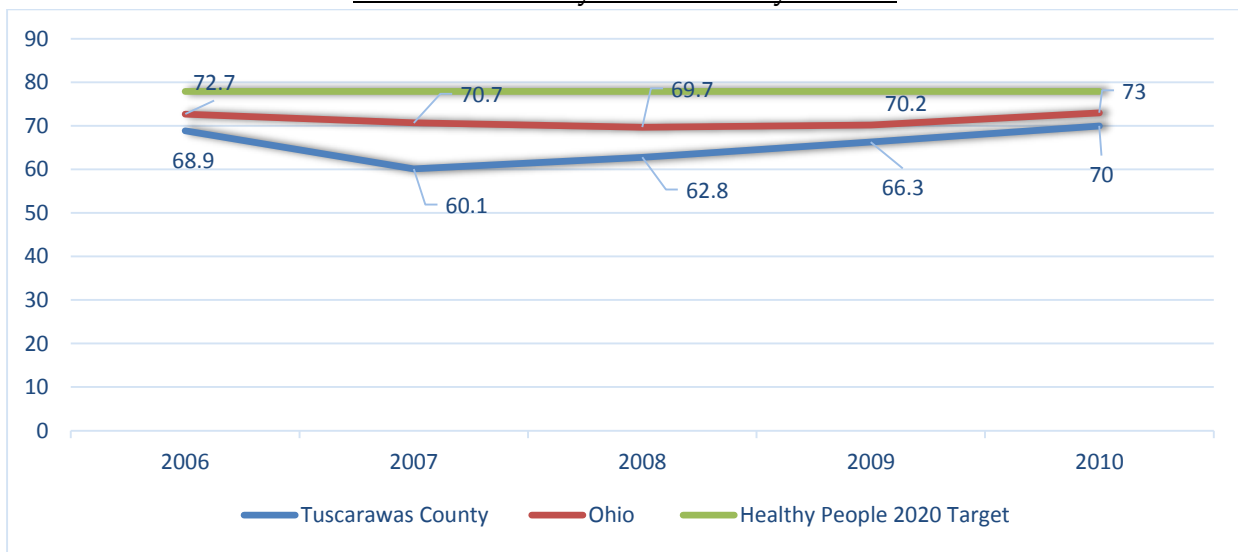


Source: Ohio Department of Health / Healthy People 2020

Babies born weighing less than 2,500 grams or 5 pounds, 6 ounces are considered low birth-weight (March of Dimes, 2008).

Chart 15: Percent of Individuals Who Accessed First Trimester Care

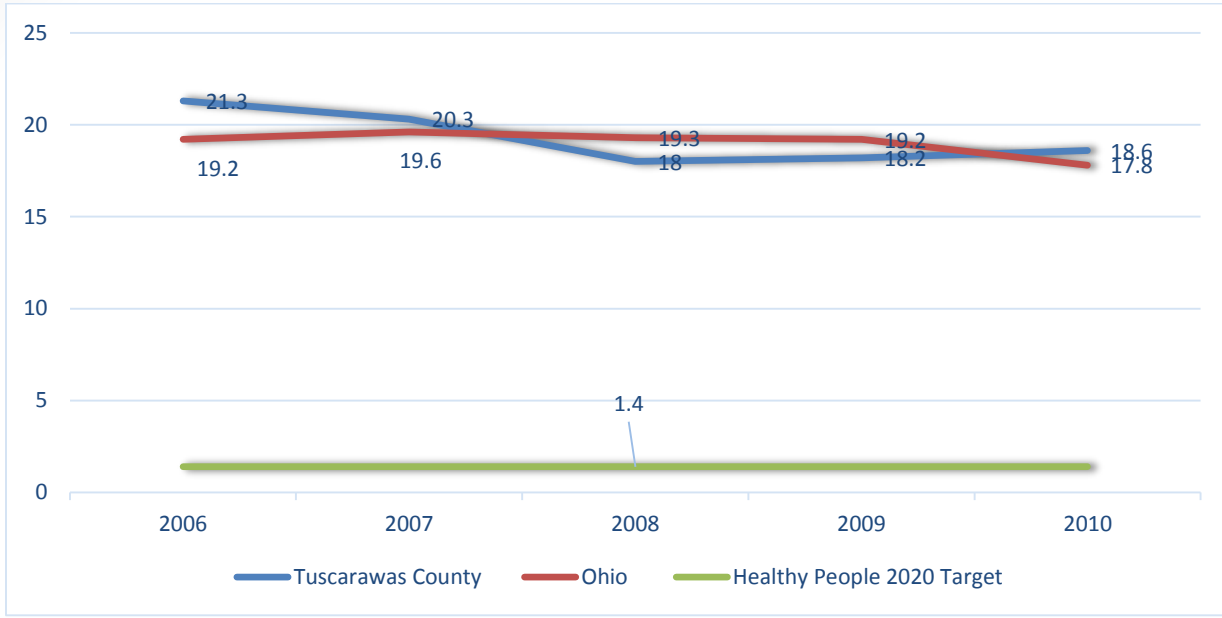
Tuscarawas County versus Ohio 5 year trend



Source: Ohio Department of Health Information Warehouse

Women accessing prenatal care during their first trimester in Tuscarawas County was consistently below Ohio percentages with both proportions falling well short of the Healthy People 2010 target of 90.0% of women accessing prenatal care in the first trimester (TCHD Needs Assessment, 2011).

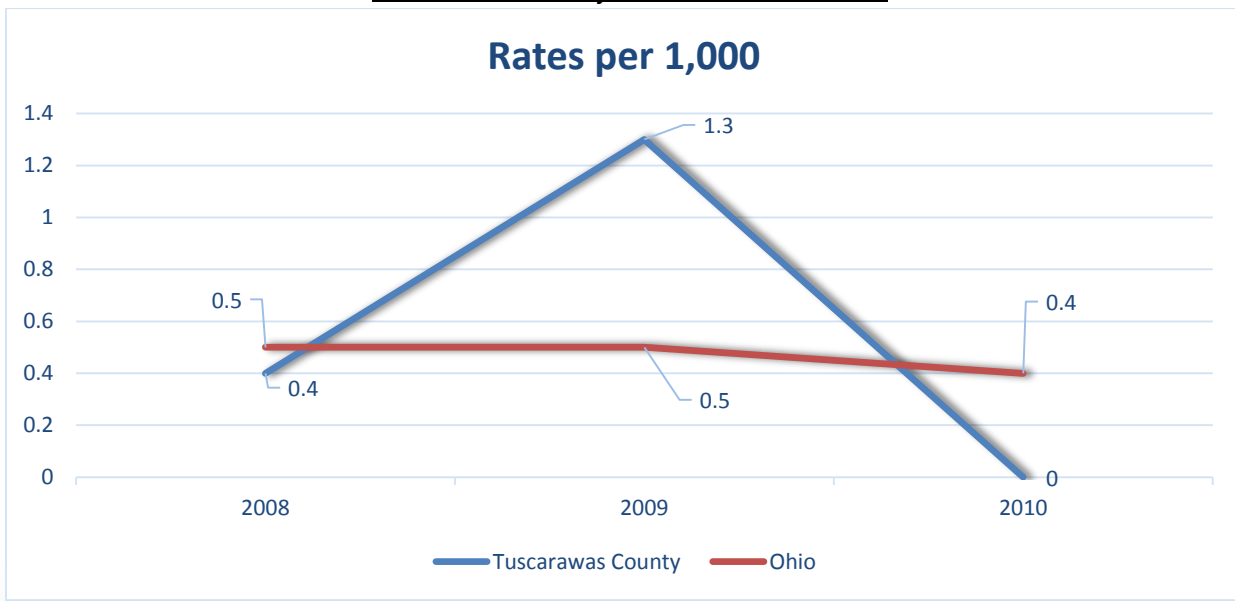
**Chart 16: Percent of Mothers who Smoked During Pregnancy
Tuscarawas County versus Ohio 5 year trend**



Source: Ohio Department of Health / Healthy People 2020

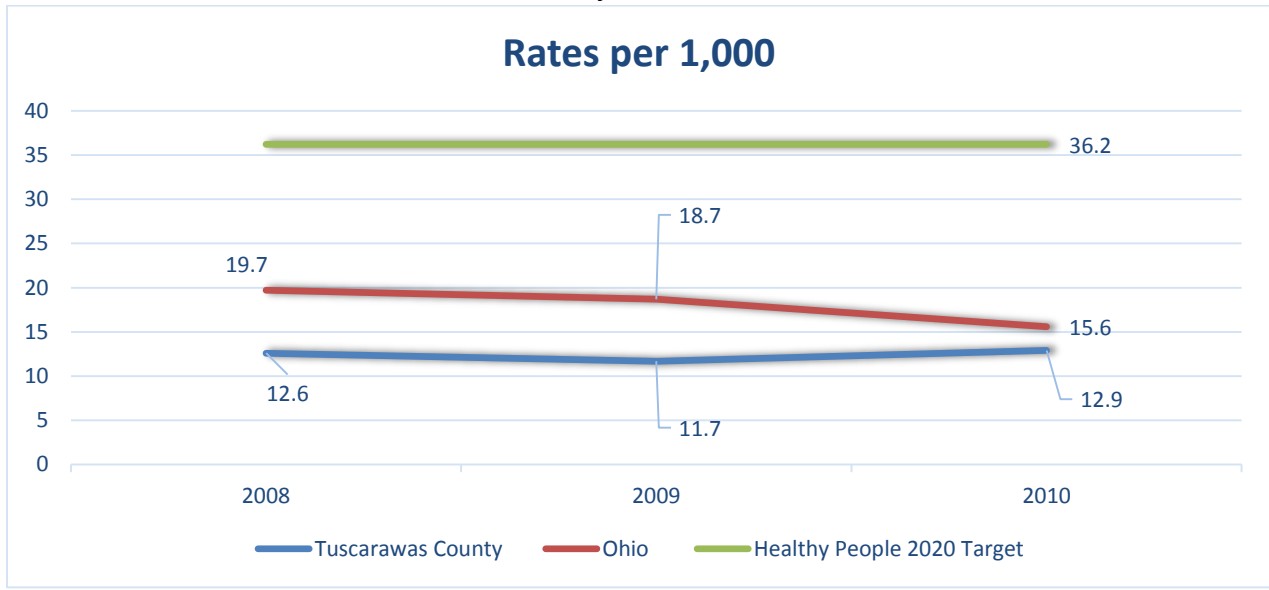
The percentage of women who smoked while pregnant fell over 2% from 2007 to 2008 but has been increasing since that time. The Healthy People 2020 target is 1.4%.

**Chart 17: Birth Rates of mothers < 15 years old
Tuscarawas County versus Ohio 2008-2010**



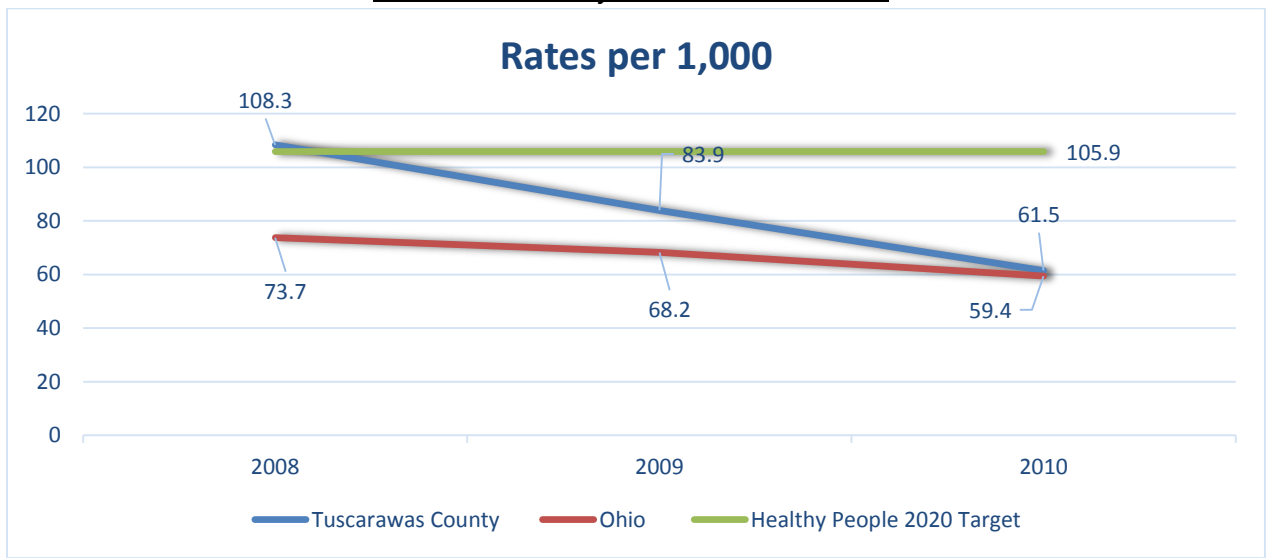
Source: Ohio Department of Health

**Chart 18: Birth rates of mothers 15-17 years old
Tuscarawas County versus Ohio 2008-2010**



Source: Ohio Department of Health / Healthy People 2020

**Chart 19: Birth rates of mothers 18-19 years old
Tuscarawas County versus Ohio 2008-2010**



Source: Ohio Department of Health / Healthy People 2020

The rates of births to young mothers in Tuscarawas County has been on the decline from 2008-2010, which follows statewide trends. Historically, Tuscarawas County rate of births to teen moms 15-17 have been lower than state wide rates. Despite the downward trend of births to teen moms age 18-19 Tuscarawas County is still above the national average, however the gap is closing.

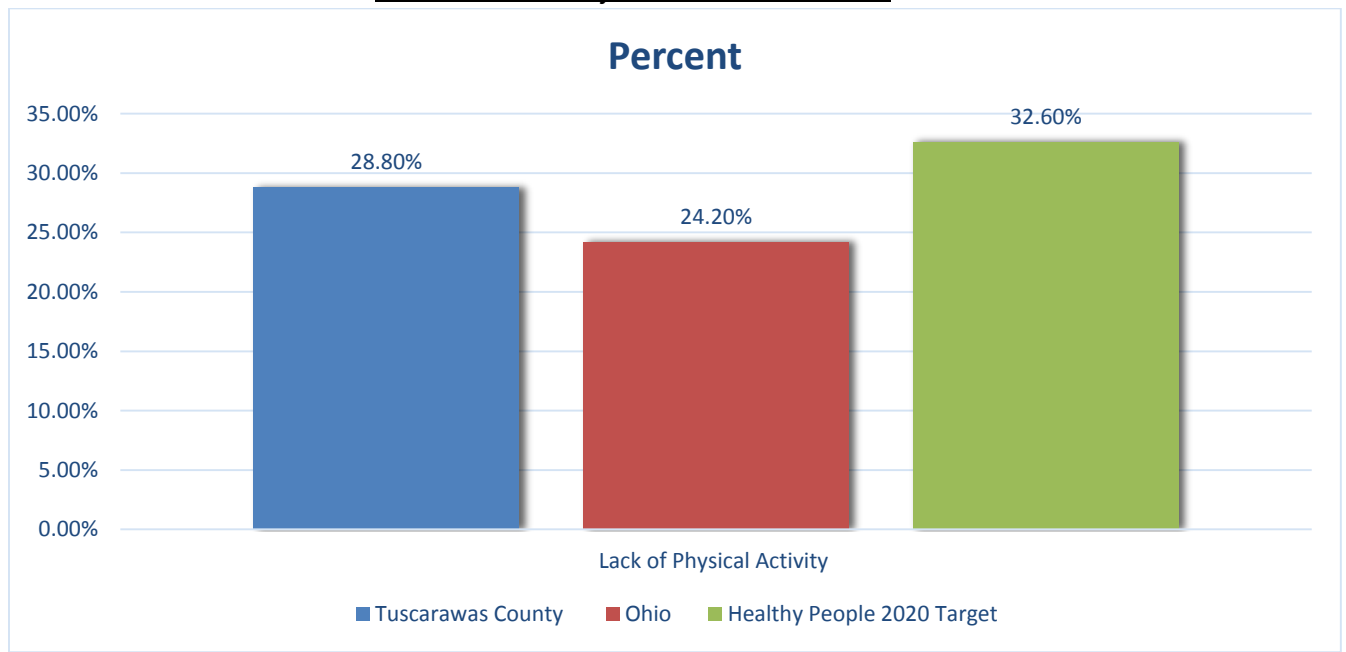
V. Behavioral Risk Factors

This section provides risk factors for premature death and disease among Tuscarawas County residents. Data is obtained from the Tuscarawas County Health Department as well as Union Hospital Community Health Needs Assessment from 2013.

A. Exercise

Union Hospital conducted a needs assessment in 2013 in which over 400 random, participants, who are Tuscarawas County residents, self-reported on exercise habits. It was found that groups who are more likely to have exercised in the past month include respondents aged 18-44, those who are currently married, respondents with children, those with an annual income of \$54,000 or more, employed residents and college graduates (Union Hospital Needs Assessment, 2013).

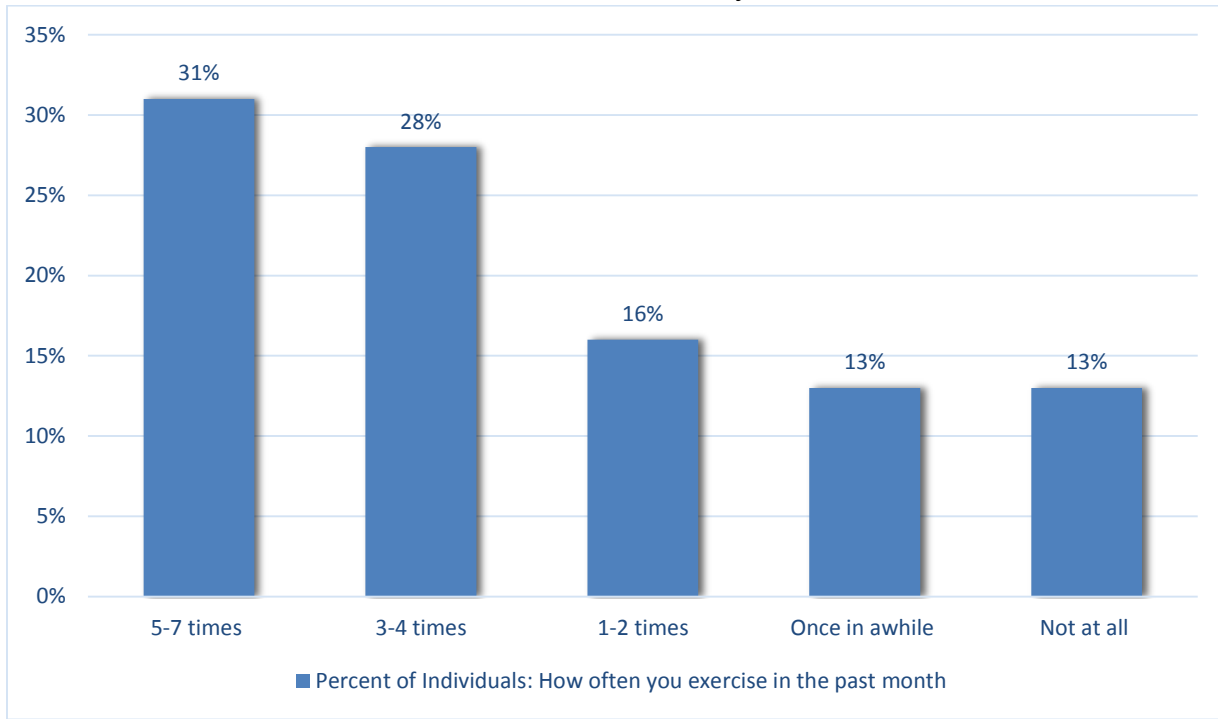
**Chart 20: Percent Lack of Physical Activity
Tuscarawas County versus Ohio 2004-2007**



Source: Ohio Department of Health / Healthy People 2020

Lack of physical activity is equal to persons who failed to participate in moderate activity for thirty or more minutes per day on five or more days per week; or vigorous activity for twenty or more minutes per day on three or more days per week. The percent of individuals who identify that they lack regular physical activity in Tuscarawas County is 28.8% which currently is below the Healthy People 2020 target of no more than 32.6%.

**Chart 21: Percent of Individuals Who Engage in Physical Activity
Tuscarawas County**

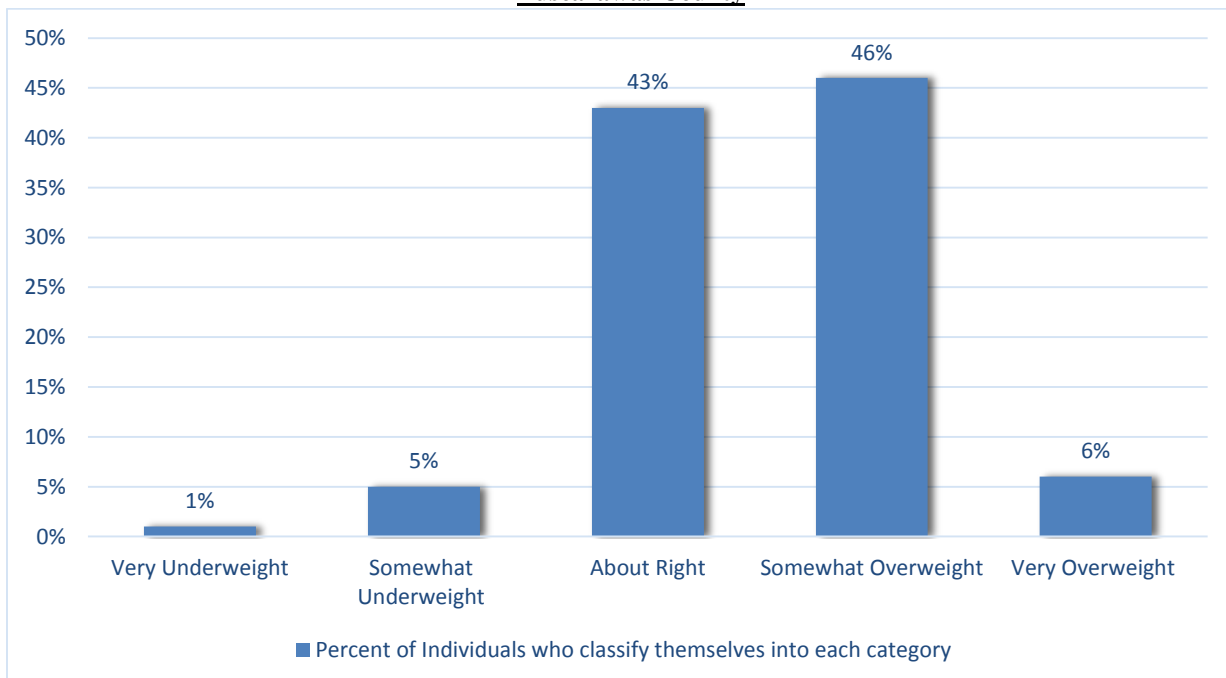


Source: Union Hospital Needs Assessment, 2013

B. Obesity

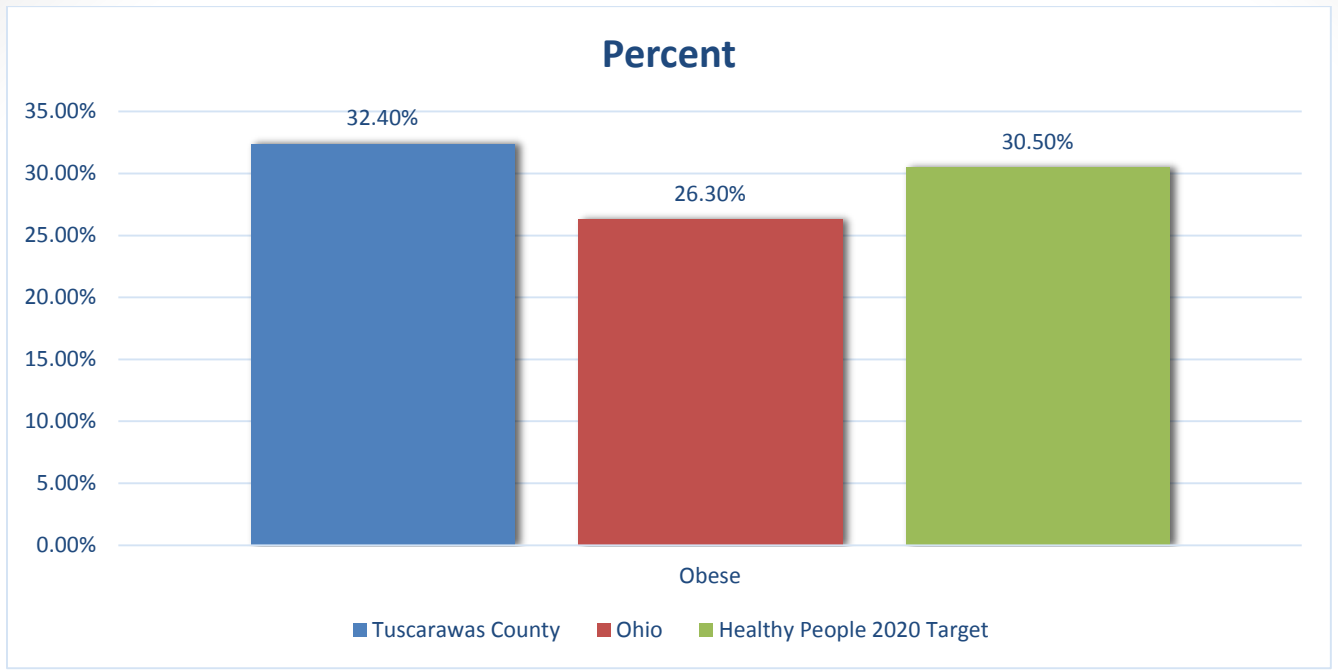
This is a self-report measure where participants of the Union Hospital Needs Assessment were asked to describe their personal weight on a 5 point scale. Results highlighted below:

**Chart 22: Percent of individuals classifying themselves into a Given Weight Category
Tuscarawas County**



Source: Union Hospital, 2013

Chart 23: Percent Individuals who are classified as Obese
Tuscarawas County versus Ohio 2004-2007



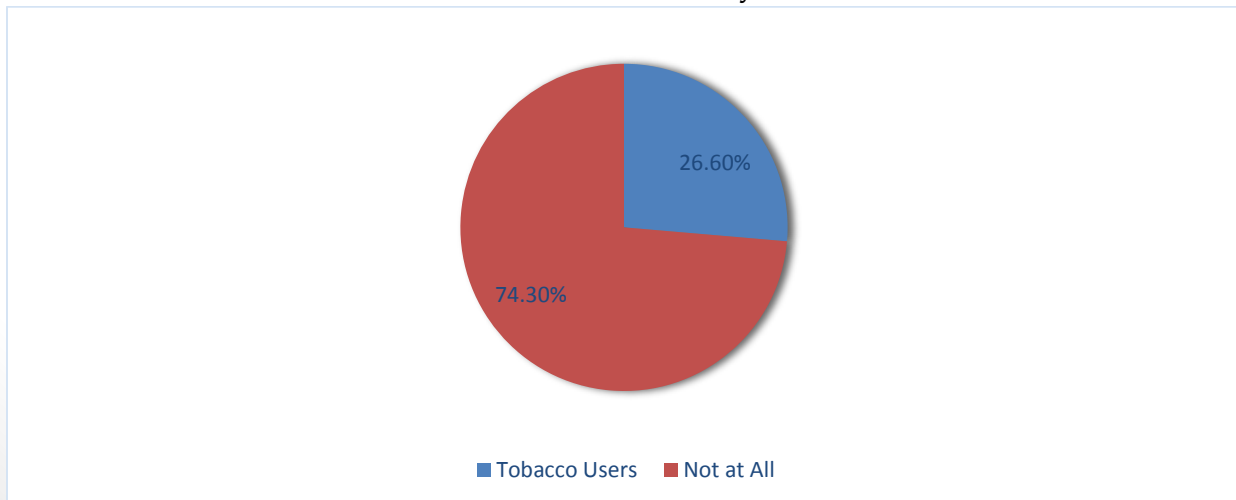
Source: Ohio Department of Health / Healthy People 2020

Individuals who classify as obese have a BMI of 30 or greater.

C. Smoking and Tobacco Use

Union Hospital conducted a needs assessment in 2013 in which over 400 random, participants, who are Tuscarawas County residents, self-reported on tobacco use. 25.7% of respondents indicated that they currently smoke cigarettes or use tobacco in varying frequencies.

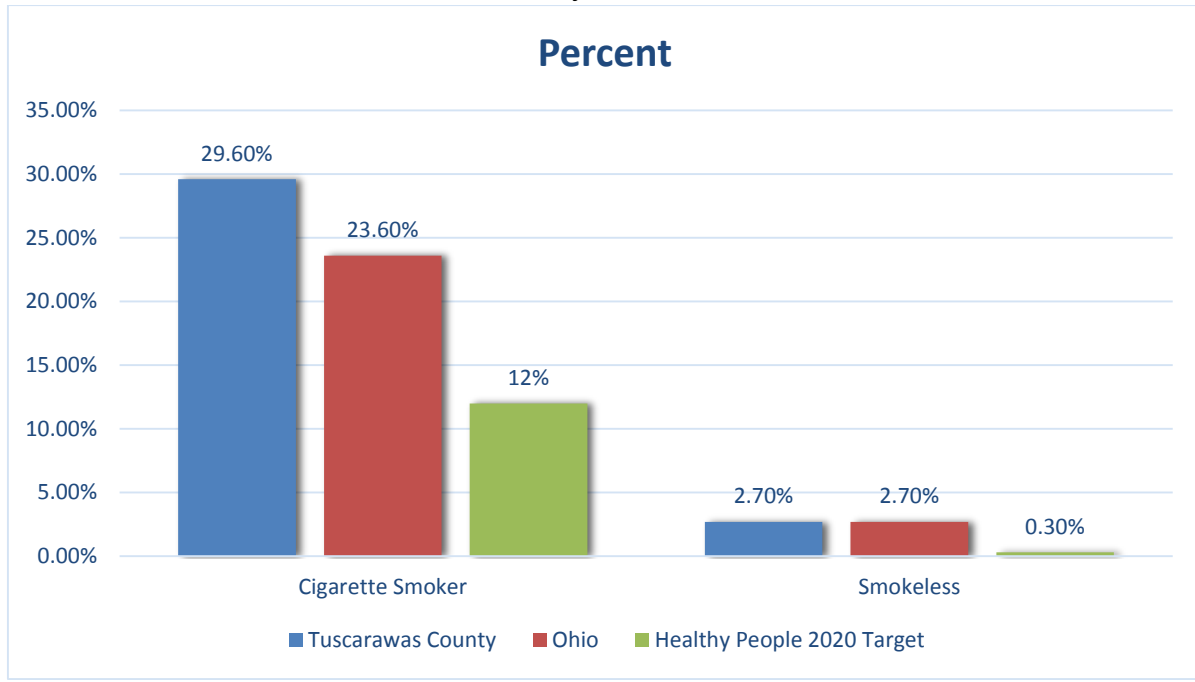
Chart 24: Percent of Self-reported Tobacco Use
Tuscarawas County



Source: Union Hospital, 2013

It is worth noting that only 2% of respondents stated they felt it was not unhealthy to use tobacco. 40% of respondents stated they knew that it was unhealthy but plan to continue use, while 58% responded that they knew it was unhealthy and plan to quit.

**Chart 25: Percent of Individuals who are current Cigarette Smokers or Smokeless Tobacco Users
Tuscarawas County versus Ohio 2004-2007**



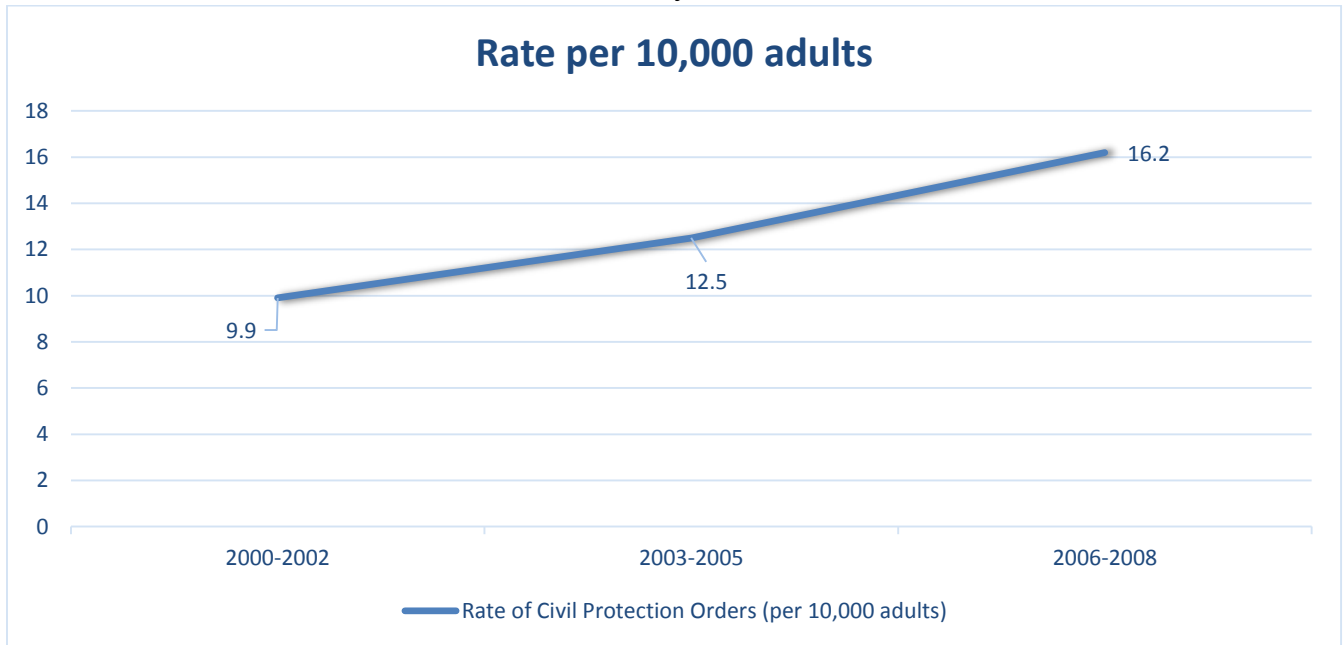
Source: Ohio Department of Health / Healthy People 2020

Current cigarette smoking is classified as persons who report smoking at least 100 times in their lifetime and smoke every day or some days. Current smokeless tobacco use is classified as persons who reported using smokeless tobacco at least 100 times in their lifetime and currently use smokeless tobacco every day or some days. Smoking is the leading preventable cause of disease and premature death in Ohio (ODH, 2006). Both cigarette smoking and smokeless tobacco use rates are well above the Healthy People 2020 targets.

D. Physical Intimate Partner Violence

In Tuscarawas County, it is estimated that 460-630 adult women (over the age of 18) experience intimate partner violence annually. Additionally, estimated 220-330 teenage girls (aged 15-19 years) experience dating violence in the county. From 2000-2002 until 2006-2008 the county has seen a 63% rate (per 10,000 adults) increase in the annual rate of petitions for civil protection orders.

Chart 26: Rate of Civil Protection Orders
Tuscarawas County 2000-2008

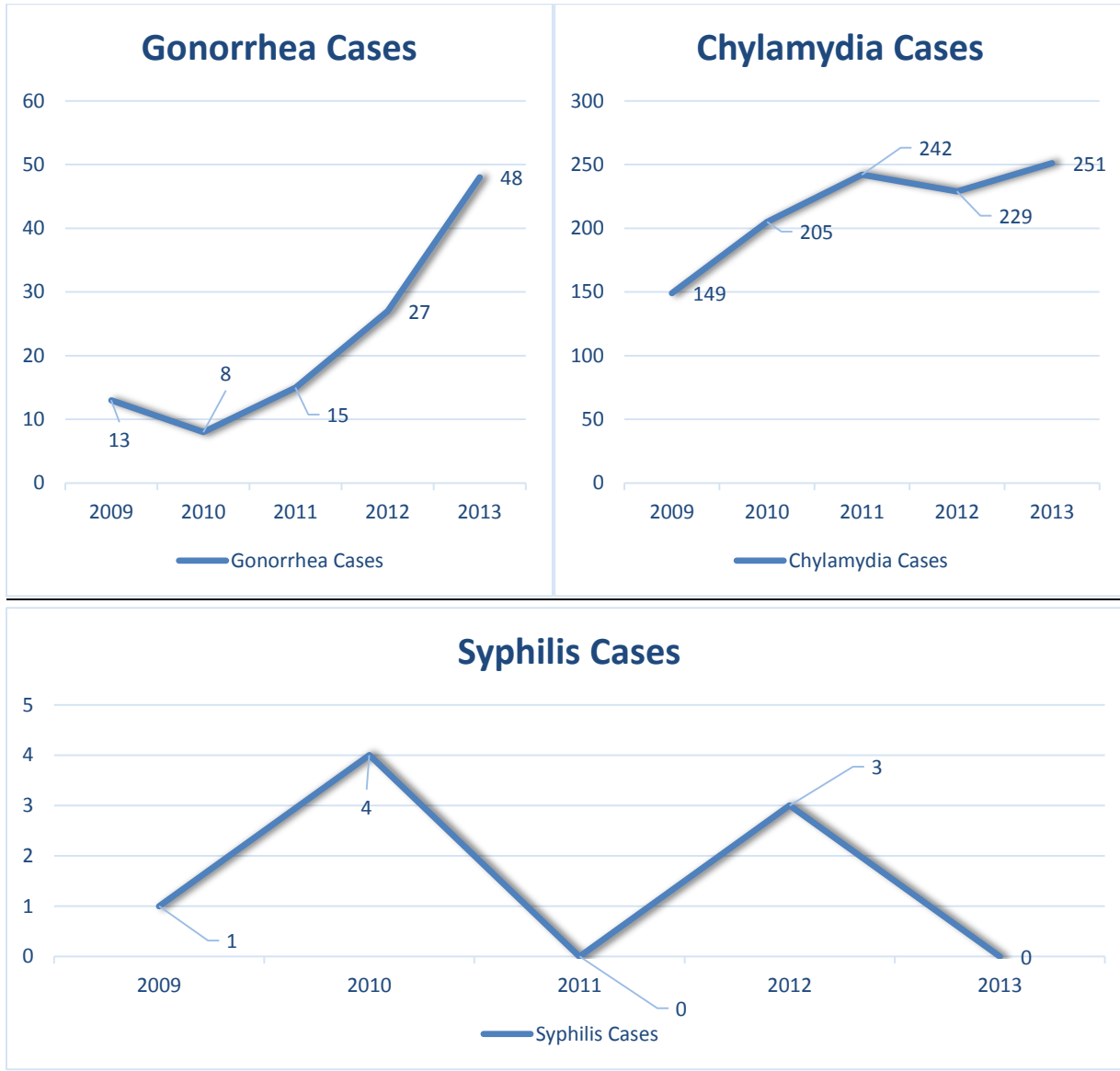


Source: Health Policy Institute of Ohio, 2010

E. Sexually Transmitted Infections

Number of cases for gonorrhea, chlamydia, and syphilis in Tuscarawas County are reported below.

Chart 27-29: Actual Number of Sexually Transmitted Infection Cases in Tuscarawas County



Source: Ohio Department of Health

VI. Environmental

A. Lead Poisoning

Over 42 percent of all housing units in Ohio were built before 1950 and are likely to contain lead hazards. Ohio has approximately 3.7 million housing units containing some lead-based paint on interior and/or exterior surfaces. Each year, approximately 150,000 children from birth to 6 years of age are screened for lead poisoning and currently, less than two percent are found to have elevated blood lead levels.

Table 13: Blood Lead Levels above Normal

Year	10-14 ug/dL	15-19 ug/dL	20-24 ug/dL	Total EBL
2009	7	2	1	10
2010	6	1	0	7
2011	4	5	3	12
2012	9	2	1	12

Source: Ohio Department of Health

The Healthy People 2020 target is 0.

VII. Conclusion

There are many possible areas of improvement in the public health sector of Tuscarawas County. Healthy People 2020 will help to enable the Tuscarawas County Health Department (TCHD) to develop goals and strategies to work towards meeting the targets established. The TCHD will continue to collaborate with the community, other agencies and the Ohio Department of Health (ODH) to provide the best possible public health services to the community.

VIII. References

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