



# **Unlocking Opportunities**

## *Stark County Indicators Report 2017*

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# Acknowledgements

*The Stark County Indicators Report* is a result of the past efforts of COMPASS (United Way), as well as, the 2010 Patient Protection and Affordable Care Act that required charitable hospitals to conduct a Community Health Needs Assessment (CHNA). *The Indicators Report* is only part of the needs assessment process, but would not be possible without the dedication of the Stark County CHNA Advisory Committee. The Advisory Committee is composed of 23 agencies and organizations knowledgeable in the area of health and social services.

The Advisory Committee provided oversight, direction and recommendations for *The Stark County Indicators Report*. Special thanks is extended to Amanda Archer, Epidemiologist at the Canton City Health Department and Kelly Potkay, Accreditation Coordinator/Health Educator at the Stark County Health Department for compiling, updating and formatting the secondary data for *The Indicators Report*.

We would also like to thank the committee members and community partners who provided data and/or reviewed and edited *The 2017 Stark County Indicators Report*.

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# Introduction

## Format

Each segment of *The Stark County Indicators Report* is made up of the following sections:

- Narrative - qualitative context surrounding the data
- Related Data - additional data related to the indicator
- Data - indicator in question
- Sources, Definitions, Caveats and/or Notes - source citation, meaning of word, term or phase, and additional explanatory information

## Purpose

*The Stark County Indicators Report* was created to track trends at the county level, on a variety of data sets, to monitor the current health status of the community and predict possible future conditions. The Advisory Committee selected the indicators based on accuracy, availability, consistency, timeliness, history, and reporting. Indicators have been added and subtracted through committee discussion, based on availability of data to monitor over time and the usefulness of the data to the community.

## How To Use This Report

The Indicators Report consists of narratives and selected data sets that are intended as a starting point in the exploration of the issues. Although indicators cannot be used to establish causal relationships between specific interventions and outcomes, they can be used to monitor progress toward outcomes over time. The indicators presented can play a critical role in documenting whether changes are occurring in the desired direction.

The brevity of the narratives is intentional. The content of the narratives is condensed and open to multiple interpretations. The narratives are intended to provide a context within which to interpret the data and to start discussions.

*The 2017 Stark County Indicators Report* includes the most current and up-to-date data available. To review older data not included in this Report please reference the *2014 Indicators Report*.

**Please note that this document is best viewed/printed in color.**

# Stark County Demographics

## **Population**

The overall population in Stark County has been slightly decreasing since 2014. Population growth or decline is positively correlated with the economic health of an area.

## **Racial**

Stark County is racially and ethnically homogenous. Minority populations represent approximately 12 percent of the total population. While minority groups have increased in number, they still represent a very small, but increasing, portion of the population. Stark County is also racially and ethnically segregated. Minorities live in pockets within the county. The urban areas of Stark County (Alliance, Canton, and Massillon) have a much higher percentage of minorities than the suburban areas of the county.

## **Age**

The population in Stark County, like that of the state and the nation, is aging. The median age in Stark County is 41.6 years old which is 4.1 years older than the state median age and 3.7 years older than the national median age. The 65 and older population, represented 18.6 percent of the population in 2016.

## **Educational Attainment**

There is a developing consensus that education and training beyond a high school diploma is seen as critical to the economic growth within Stark County. A college degree is not the only postsecondary educational option available in Stark County. Approximately 20.8 percent of Stark County adults 25 years and older have some college experience but no degree. These post educational opportunities can include skilled training, certifications and stackable certificates resulting in a degree. On average, there is a direct correlation between educational attainment, earnings and employment. Higher educational attainment is directly related to higher individual earnings and to lower rates of unemployment. Educational attainment is higher among younger population groups than in the older population.

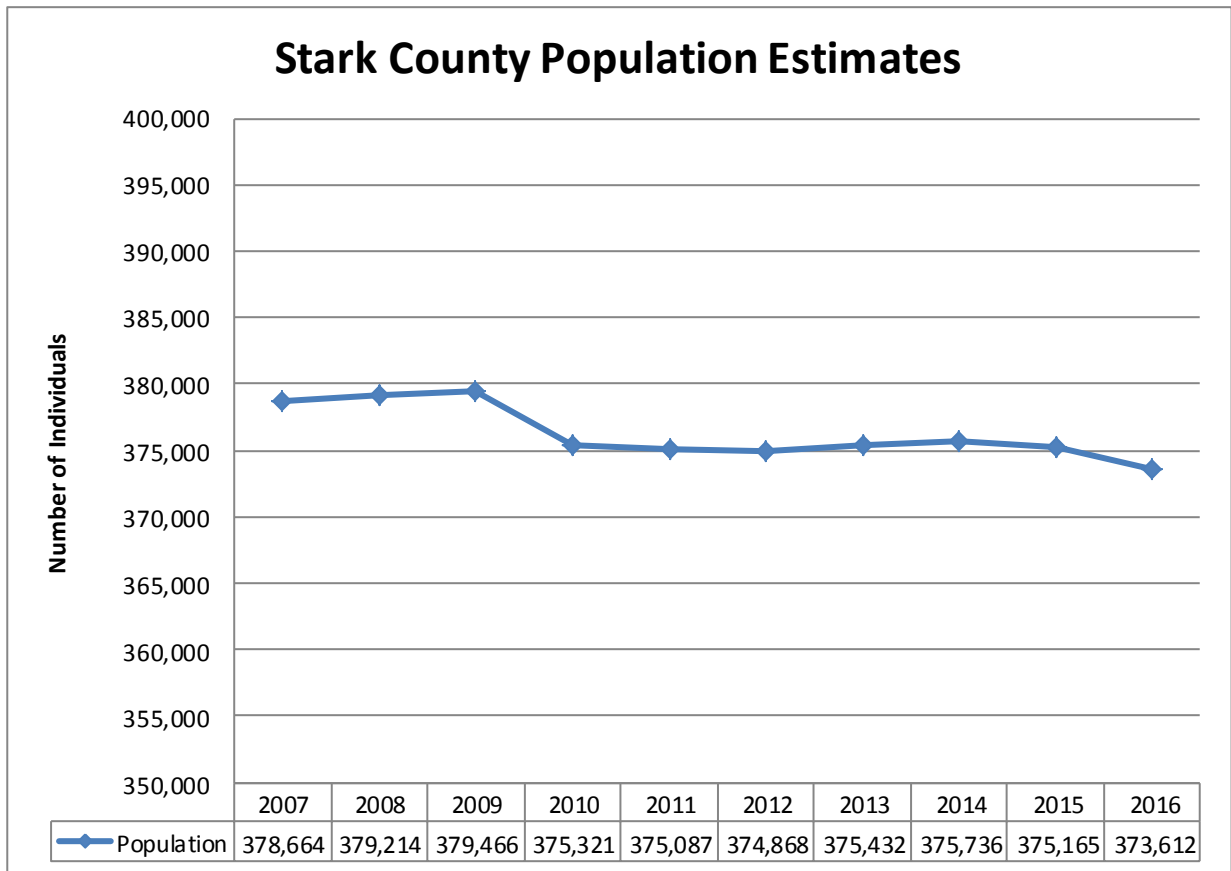
## **Income**

Stark County's standard measures of income (per capita, median family and median household) are above that of the state, but below that of the nation. Stark County residents earning an income between \$35,000 and \$149,999 increased during 2016. The total percent of the population living below poverty within Stark County has been decreasing since 2014. Currently 13.1 percent of the population live in poverty and female headed households, with children under the age of 5, are the largest group below poverty at 63.7 percent.

## **Employment**

Unemployment has consistently remained at approximately 4 percent within Stark County since 2014. Population estimates from the Census Bureau show Stark County's population between 20 and 54 years of age is in the 40 percent tile.

# Stark County Demographics



**Source:**  
U.S. Census Bureau - American Community Survey (ACS)

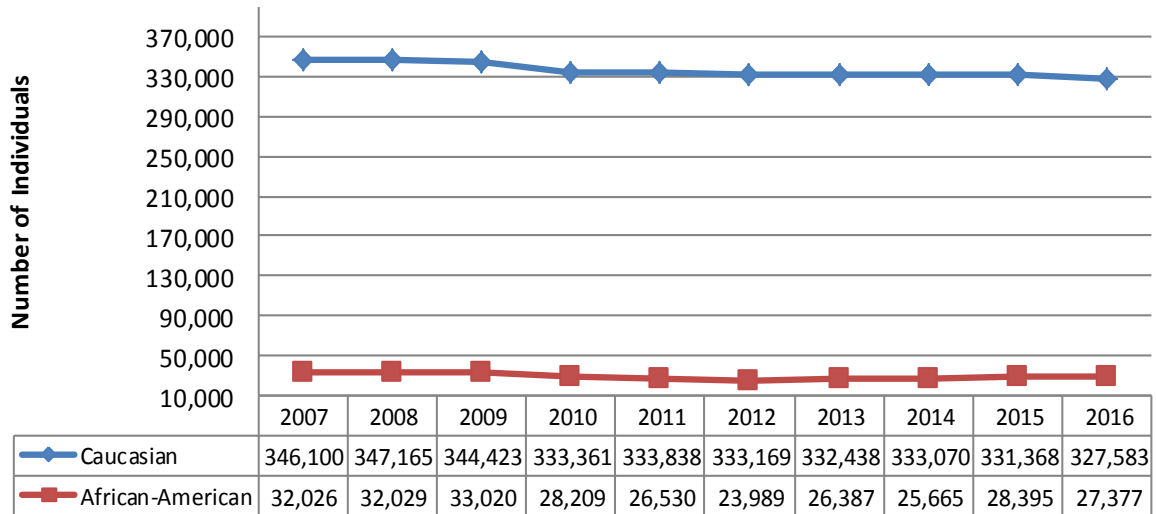
**Caveat:**  
Data are based on a sample and are subject to sampling variability.

**Note:**  
The Population Estimates Program annually produces population estimates based upon the last decennial census. Each year, the estimates are re-calculated using the most up-to-date demographic components of change and legal boundaries available.

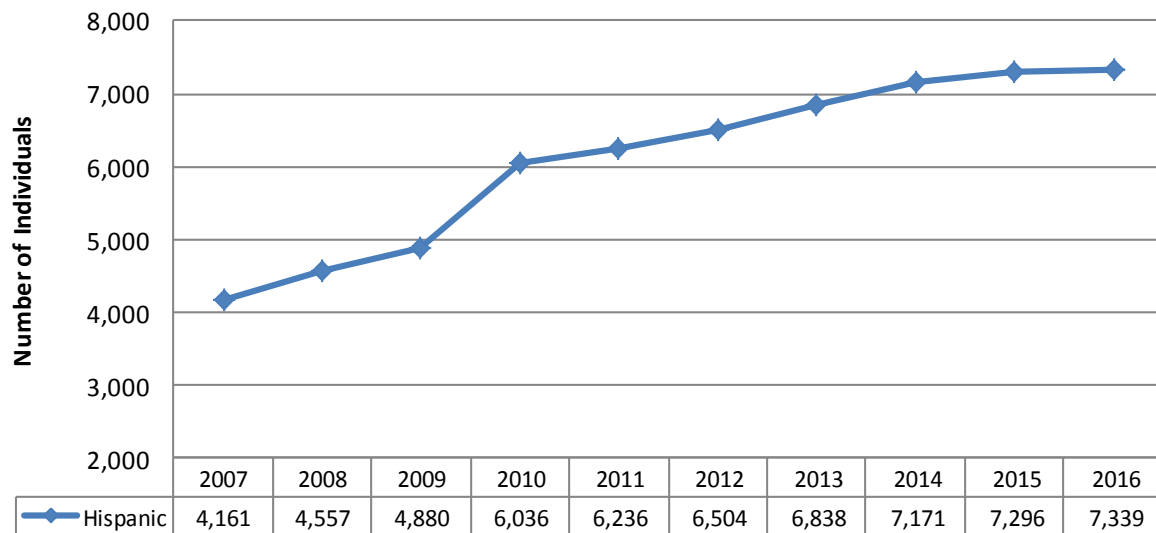


# Stark County Demographics

## Stark County Population Estimates by Race



## Stark County Population Estimates by Hispanic Origin



**Source:**

U.S. Census Bureau - American Community Survey

**Caveat:**

Data are based on a sample and are subject to sampling variability.

Native Americans and Asian/Pacific Islanders are not reported due to small population size.

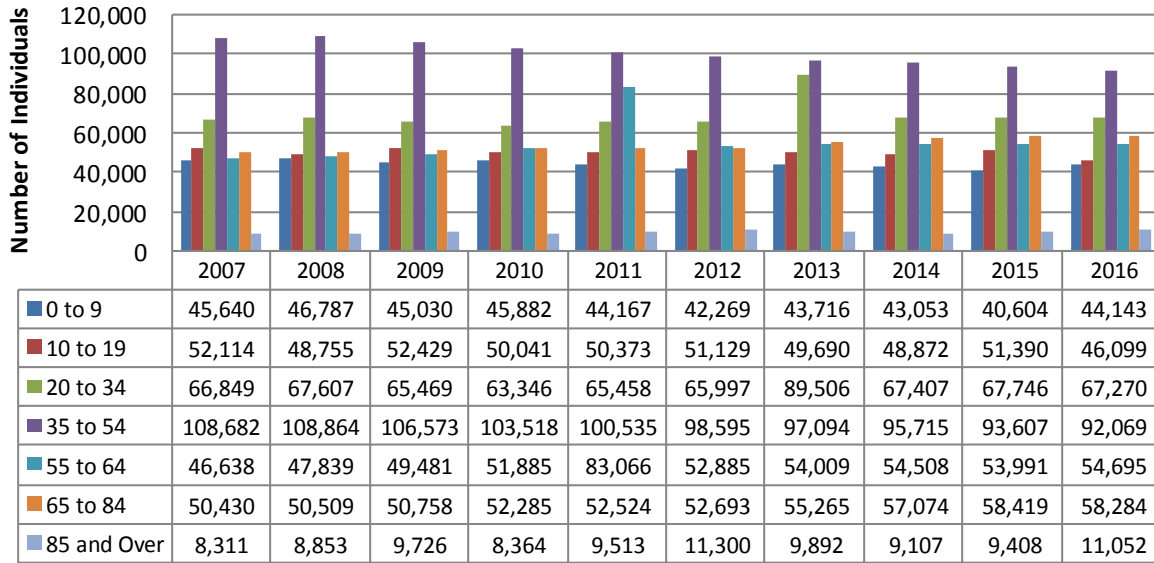
Changes in small populations can result in a large percent change.

**Note:**

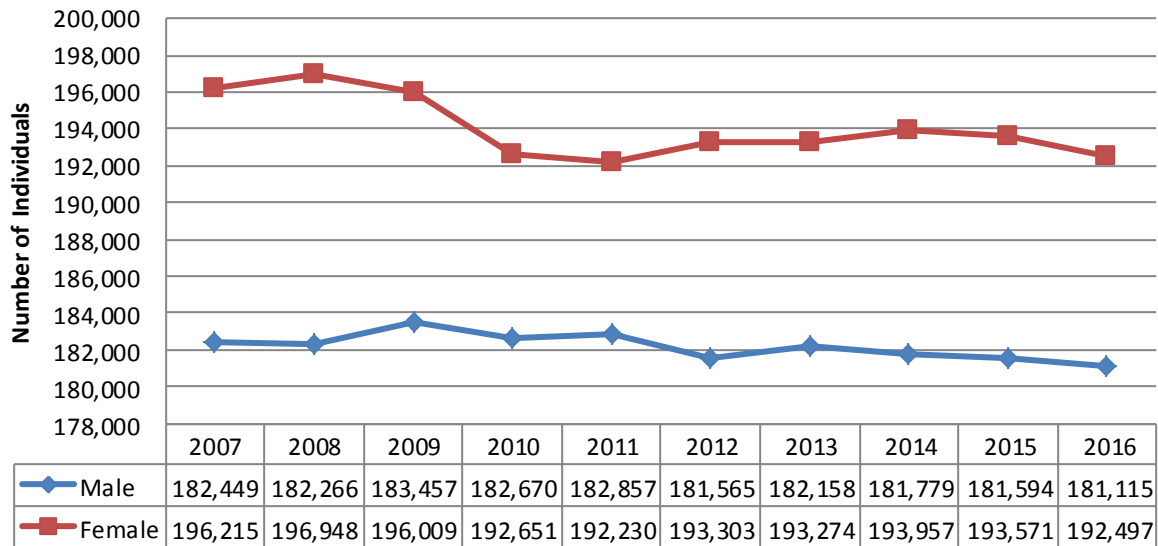
Although the ACS produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates

# Stark County Demographics

## Stark County Population Estimates by Age



## Stark County Population Estimates by Gender



**Source:**

U.S. Census Bureau - American Community Survey

**Caveat:**

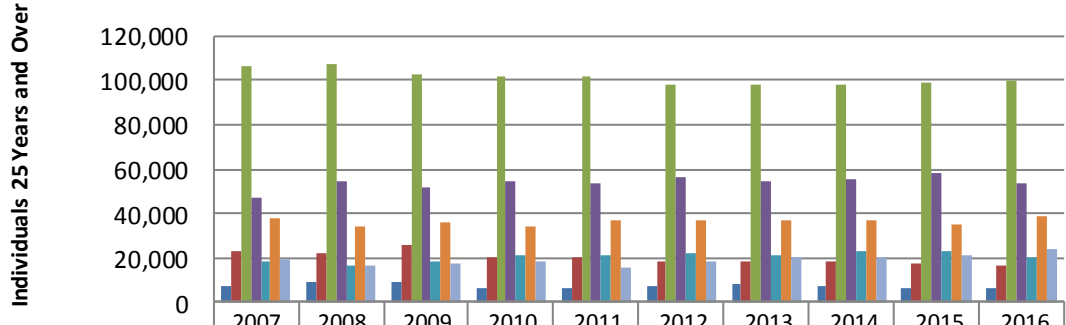
Data are based on a sample and are subject to sampling variability.

**Note:**

Although the ACS produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates the official estimates of the population.

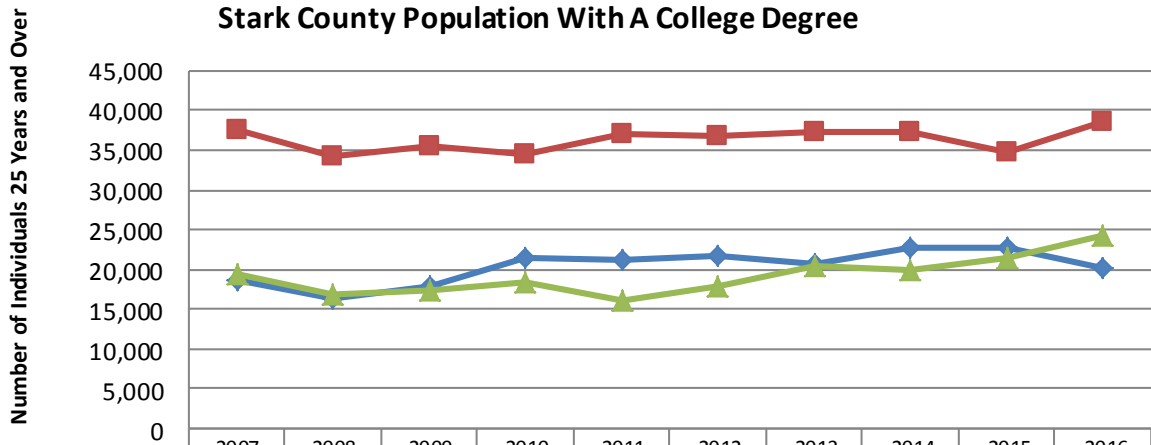
# Stark County Demographics

## Stark County Educational Attainment



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Less than 9th Grade	6,889	9,331	9,127	6,377	6,631	7,709	8,617	7,261	6,619	6,254
9th to 12th Grade, No Diploma	23,195	21,646	25,429	20,265	20,366	18,640	18,508	18,204	17,466	16,471
High School Graduate	106,048	107,607	102,605	101,691	101,955	97,647	98,517	98,178	98,606	99,899
Some College, No Degree	46,698	54,535	51,429	54,561	53,569	56,671	54,319	55,680	57,827	53,966
Associate Degree	18,646	16,245	17,931	21,524	21,268	21,784	20,793	22,628	22,803	20,225
Bachelor's Degree	37,556	34,232	35,573	34,464	37,159	36,758	37,215	37,324	34,811	38,534
Graduate or Professional Degree	19,467	16,866	17,292	18,298	15,985	17,932	20,317	20,007	21,576	24,353

## Stark County Population With A College Degree



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Associate Degree	18,646	16,245	17,931	21,524	21,268	21,784	20,793	22,628	22,803	20,225
Bachelor's Degree	37,556	34,232	35,573	34,464	37,159	36,758	37,215	37,324	34,811	38,534
Graduate or Professional Degree	19,467	16,866	17,292	18,298	15,985	17,932	20,317	20,007	21,576	24,353

**Source:**

U.S. Census Bureau - American Community Survey

**Caveat:**

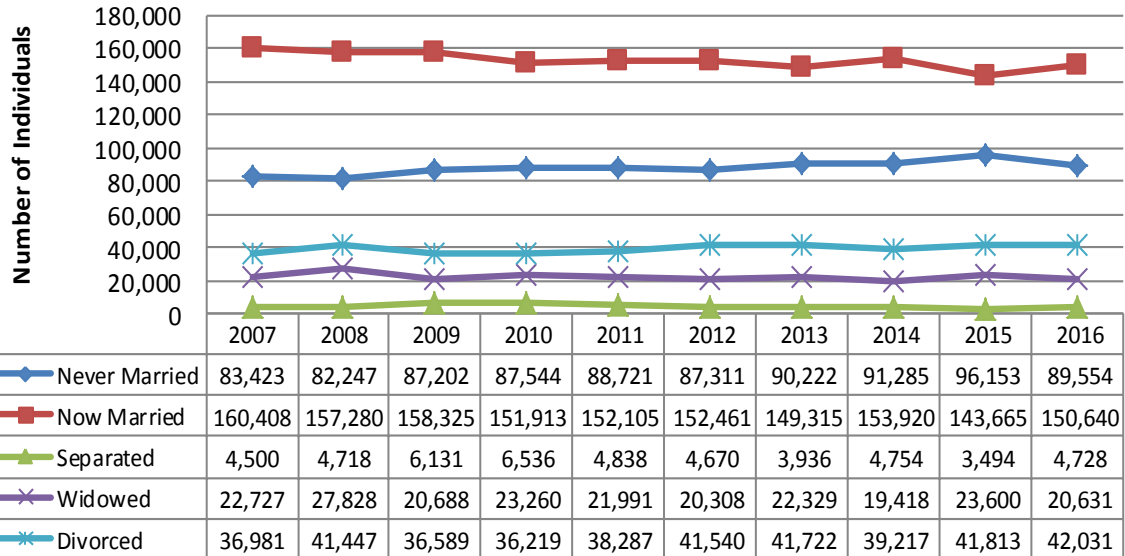
Data are based on a sample and are subject to sampling variability.

**Note:**

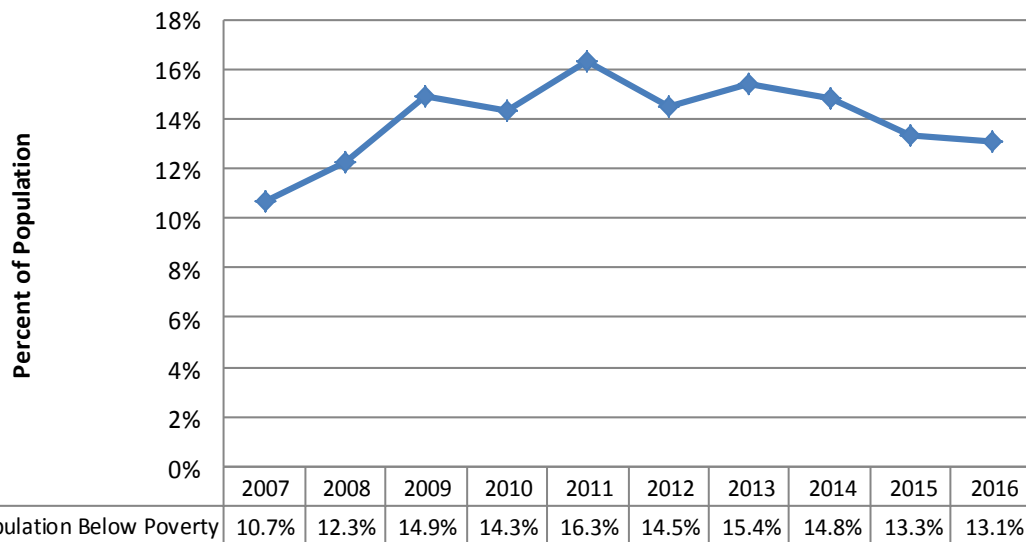
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# Stark County Demographics

## Stark County Marital Status



## Stark County Population Below Poverty

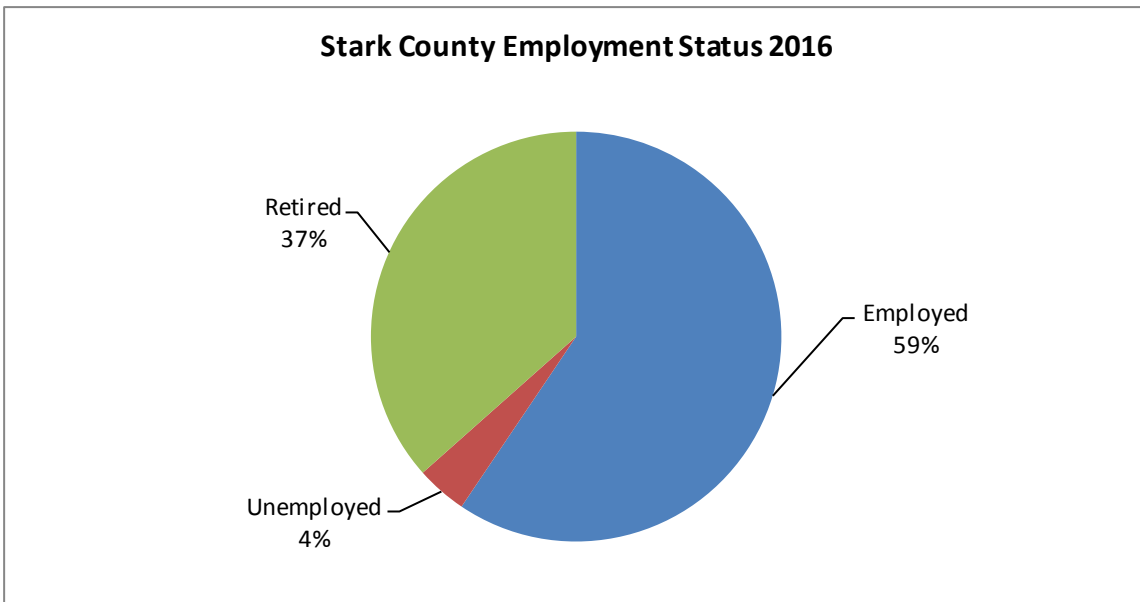
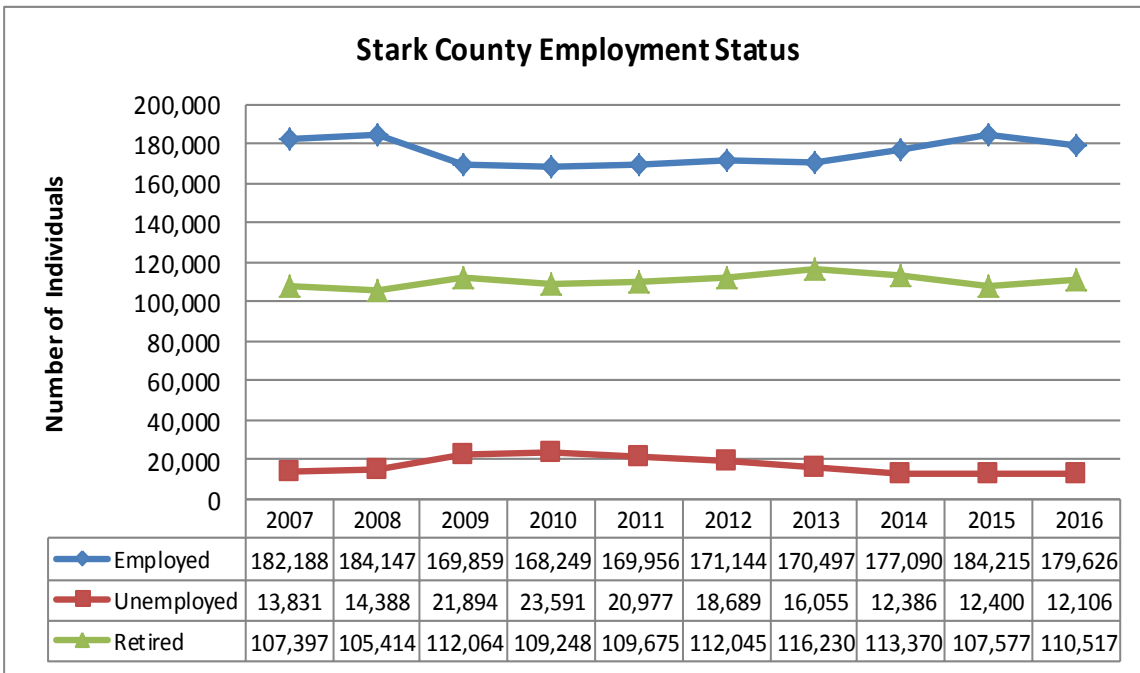


**Source:**  
U.S. Census Bureau - American Community Survey

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# Stark County Demographics



**Source:**

U.S. Census Bureau - American Community Survey

**Caveat:**

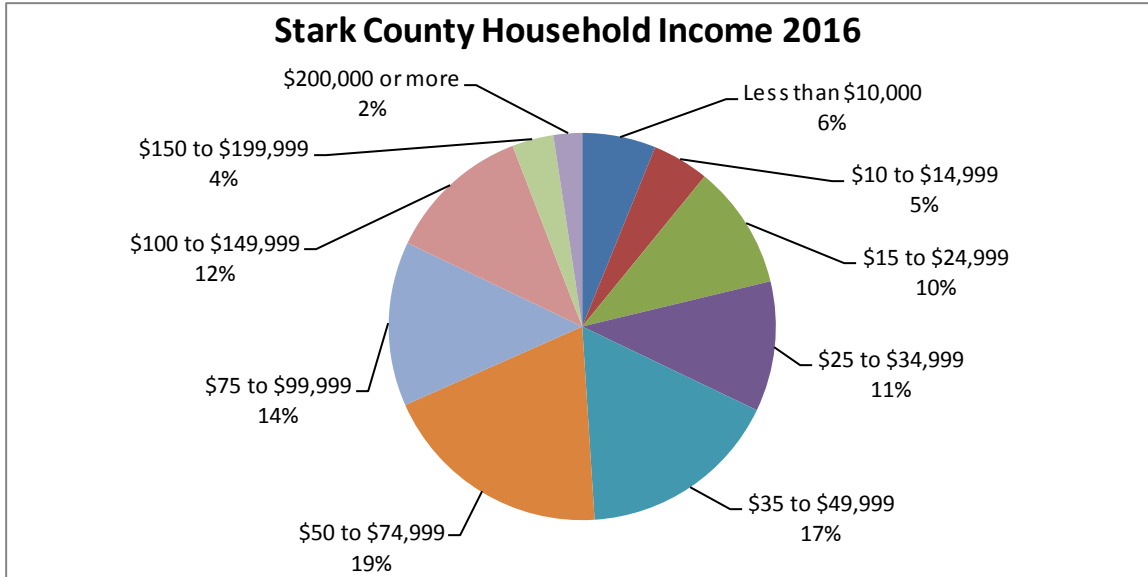
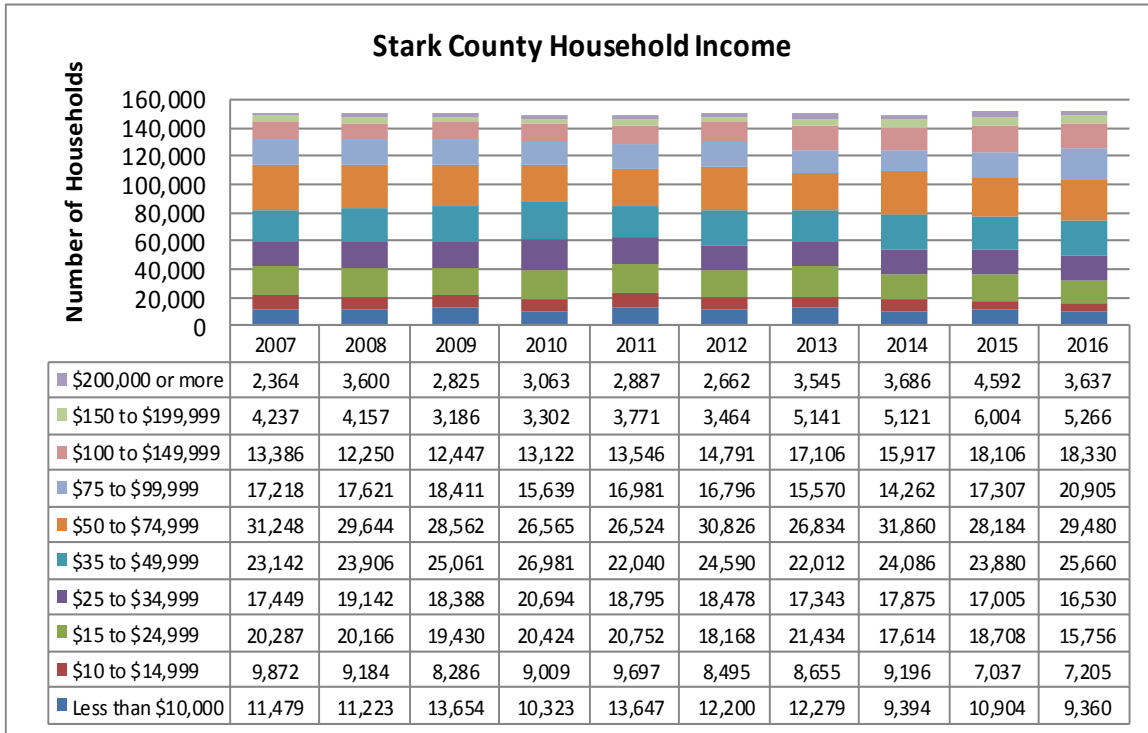
Data are based on a sample and are subject to sampling variability.

Employment and unemployment estimates may vary from the official labor force data released by the Bureau of Labor Statistics because of differences in survey design and data collection.

**Note:**

Although the ACS produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates the official estimates of the population.

# Stark County Demographics



**Source:**

U.S. Census Bureau - American Community Survey

**Caveat:**

Data are based on a sample and are subject to sampling variability.

**Note:**

Although the ACS produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates the official estimates of the population.

# Stark County Narrative

## **Physical Health**

The environment, nutrition, accidents, illness and age are factors that affect physical health. A higher infant mortality rate in the African-American population and an increase in sexually transmitted infections (STIs) are negative trends that are emerging locally. In Stark County there are significant disparities between the Caucasian and African-American populations including prenatal care, birth weights, infant mortality rates, and STIs. Health disparities are differences that can be seen in specific populations of a community in relation to diseases, health outcomes or quality of health care received. Several variables impacting disparities are health behaviors, status before care, access to healthcare and health care delivery.

## **Behavioral Health**

Behavioral health includes mental health, substance abuse treatment and prevention services. Many affected with mental illness do not seek or receive the treatment needed. Barriers to accessing treatment include stigma, lack of or inadequate insurance coverage, limited program capacity and wait time. The highest rates of mental illness are among adults aged twenty-five to thirty-four years old. Depressive, bipolar, anxiety, alcohol abuse, and opioid use disorders are the most frequent diagnoses among adults. The leading diagnoses for children are adjustment, conduct, attention deficit, anxiety, and depressive disorders. Unintentional drug overdose deaths continue to be a concern, while unintended interactions are a cause of death, most poisonings seem to be linked to recreational use.

## **Access to HealthCare**

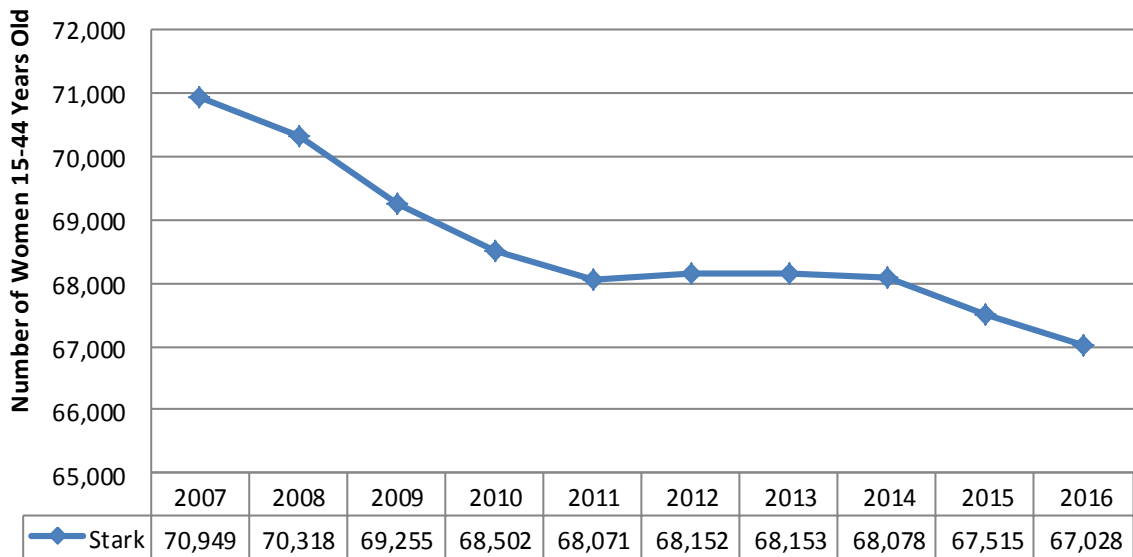
As the cost of health insurance continues to rise, the demand for healthcare services at a free/sliding fee is increasing. More than fifteen thousand Stark County residents are without health insurance and the number of individuals who are underinsured continues to increase. Of concern are individuals between the age of thirty and sixty-four with chronic medical problems who have difficulty maintaining employment but are not medically disabled. Even if an individual is Medicaid eligible, few healthcare providers, especially specialists, are willing to accept new Medicaid patients. Having insurance does not guarantee easy access to affordable, quality care. Businesses that offer health insurance have increased the employee premium contribution and/or increased the deductible paid by the employee, often making medical coverage more difficult to afford.

## **Environmental Health**

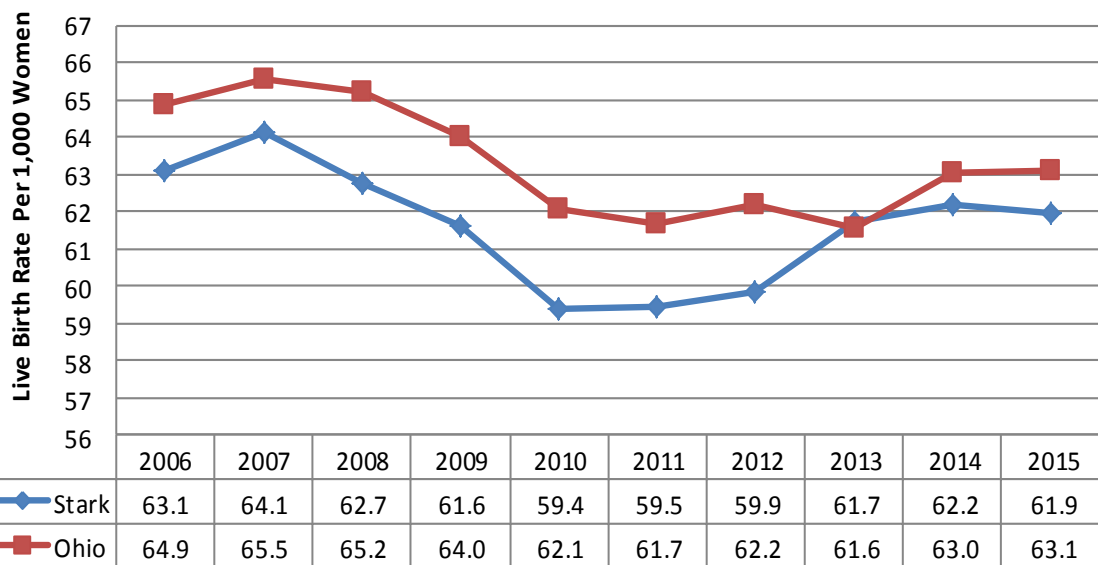
On average 98 percent of days in Stark County have been between good to moderate range for the air quality index (AQI). Air quality is measured by ozone, carbon monoxide and particulate matter. As air quality degrades, the air becomes unhealthy for adults and children with respiratory ailments such as asthma or heart disease. Two pollutants of concern are ozone and particulate matter. In the Earth's lower atmosphere, near ground level, ozone is formed when pollutants emitted by cars, power plants, industrial boilers, refineries, chemical plants, and other sources react chemically in the presence of sunlight. Particulate matter less than 2.5 micrometers in diameter are called "fine" particles. These fine particles can lodge deep within the respiratory system causing potential problems for sensitive groups. Sources of fine particles include all types of combustion, including motor vehicles, power plants, residential wood burning, forest fires, agricultural burning, and some industrial processes.

# Physical Health

## Stark County Women of Childbearing Age



## Live Birth Rate



**Source:**

Ohio Department of Health - Ohio Public Health Data Warehouse, Population Data-MCH

**Definition:**

Women of Childbearing Age: women between 15 to 44 years of age

Birth Rate: Number of births per 1,000 women of childbearing age

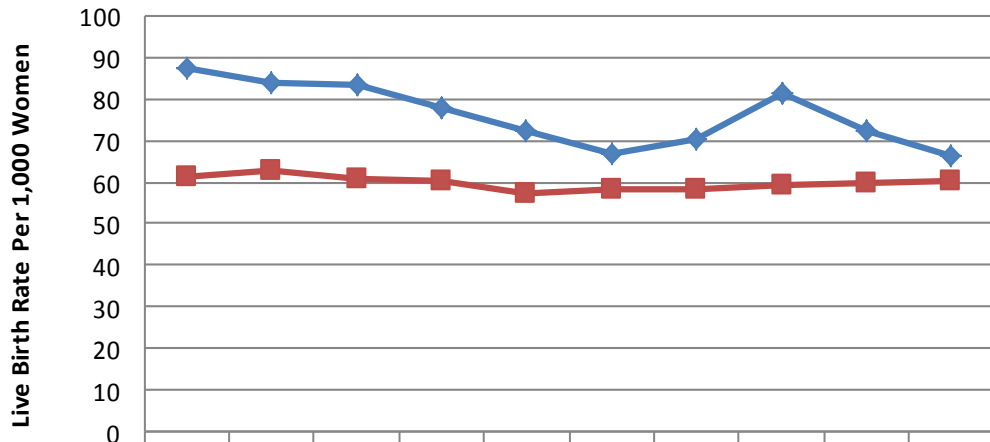
**Caveat:**

The Ohio Department of Health specifically disclaims responsibility for any analysis, interpretations or conclusions.



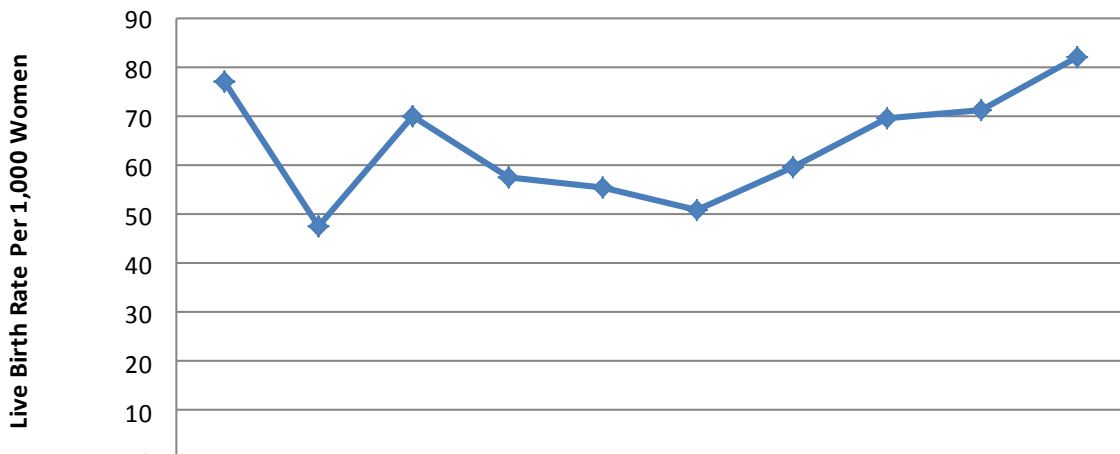
# Physical Health

### Stark County Live Birth Rate by Race



◆ Caucasian	87.6	84.2	83.5	78.0	72.3	67.0	70.5	81.4	72.3	66.2
■ African-American	61.1	62.7	61.1	60.3	57.5	58.1	58.1	59.2	59.9	60.1

### Stark County Live Birth Rate by Hispanic Origin



◆ Hispanic	77.4	47.5	70.1	57.8	55.4	51.1	59.7	69.8	71.2	82.3
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**Source:**

Ohio Department of Health - Secure Data Warehouse

**Definition:**

**Birth Rate:** Number of births per 1,000 women of childbearing age (15 to 44 years of age)

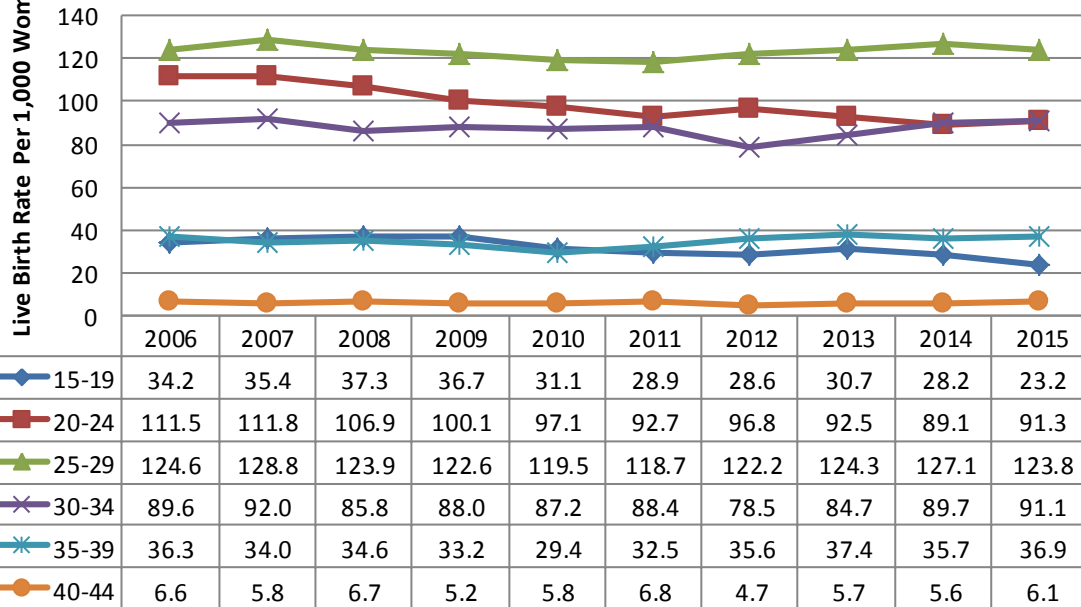
**Women of Childbearing Age:** women between 15 to 44 years of age

**Caveat:**

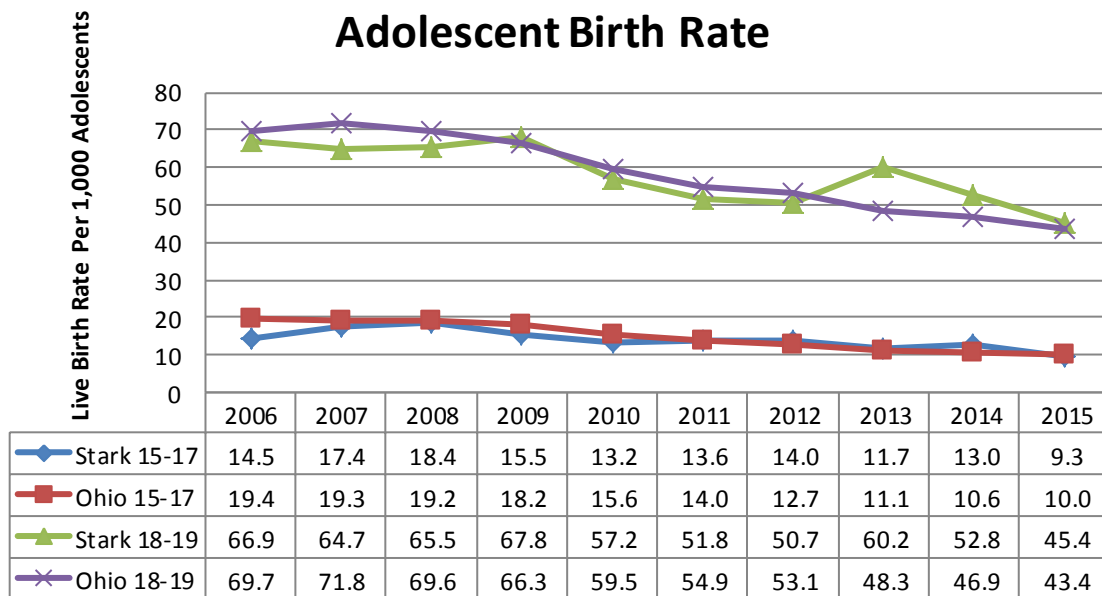
Native Americans, Asian and Pacific Islanders not reported due to small numbers.

# Physical Health

## Stark County Live Birth Rate by Age



## Adolescent Birth Rate



Source:

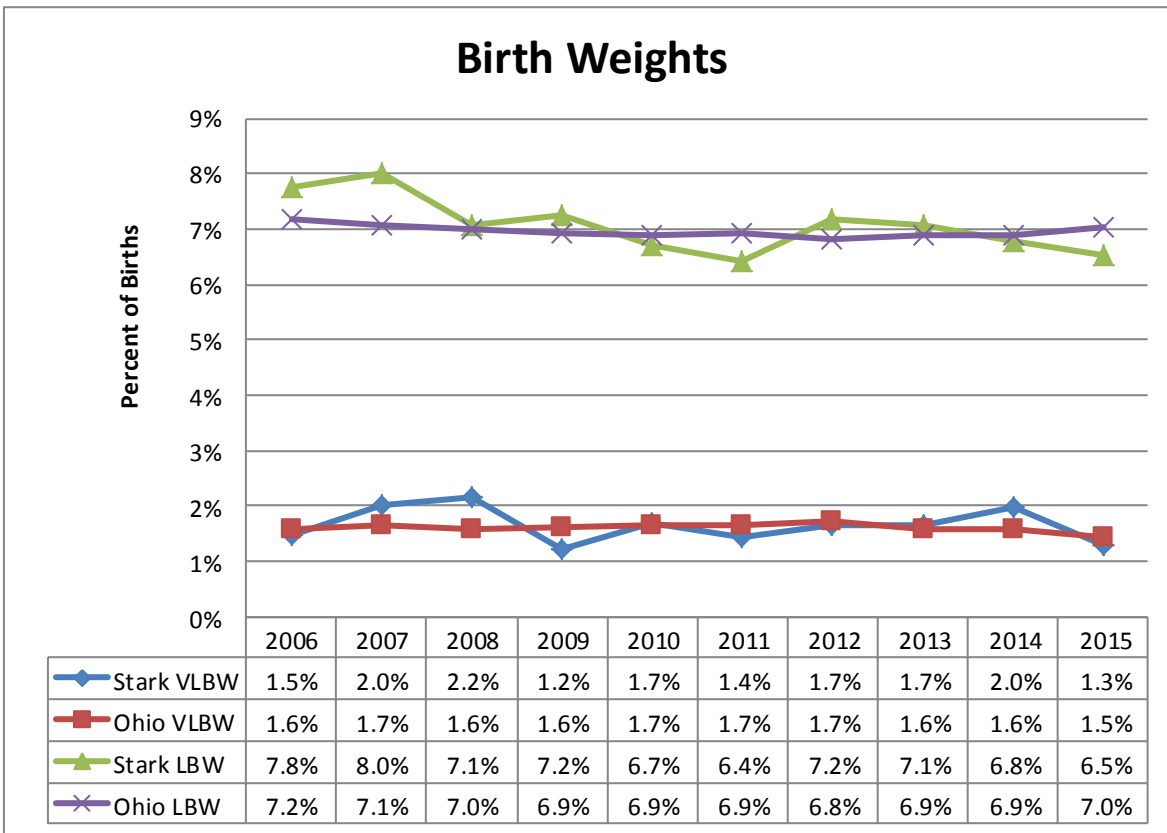
Ohio Department of Health - Secure Data Warehouse

Definition:

Birth Rate: Number of births per 1,000 women of childbearing age (15 to 44 years of age)

Adolescent Rate: Number of births per 1,000 adolescent women (15-19 years of age)

# Physical Health



**Source:**

Ohio Department of Health - Secure Data Warehouse

**Definition:**

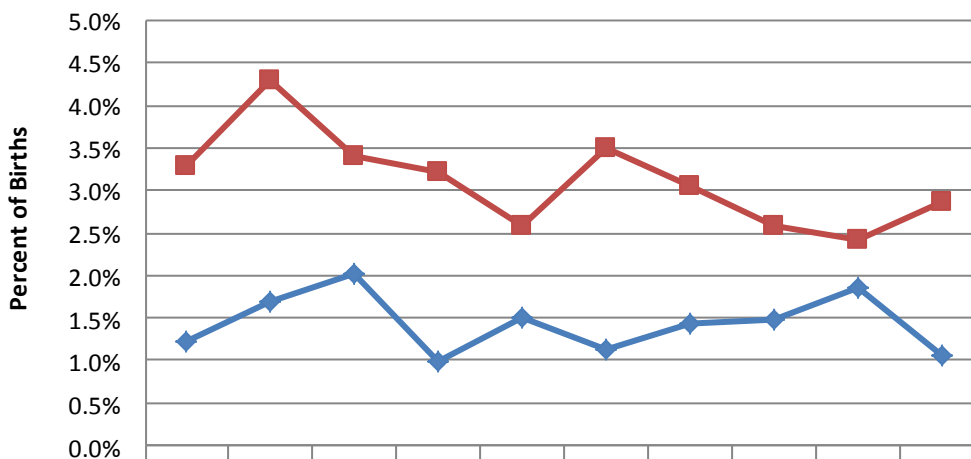
Birth Weight - The percent of births with known weight

Very Low Birth Weight (VLBW) - Births of weight between 0 to 1,499 grams

Low Birth Weight (LBW) - Births of weight between 1,500 to 2,499 grams

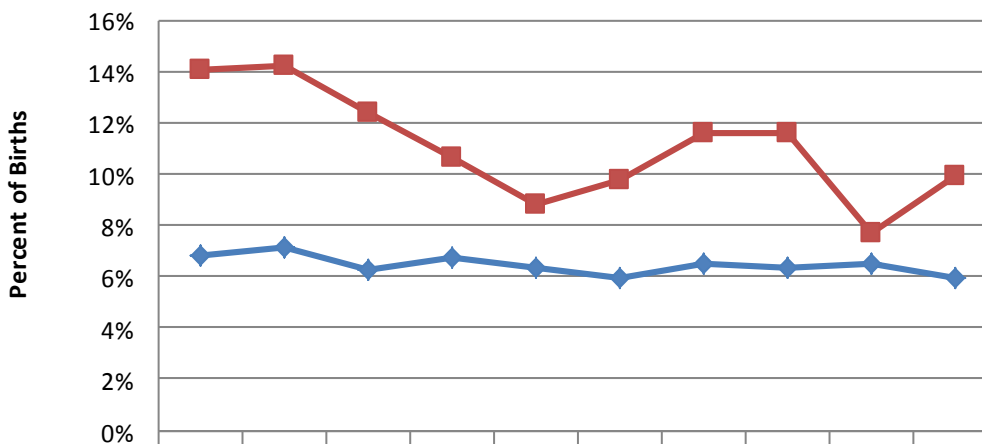
# Physical Health

### Stark County Very Low Birth Weight by Race



◆ Caucasian	1.2%	1.7%	2.0%	1.0%	1.5%	1.1%	1.4%	1.5%	1.9%	1.1%
■ African-American	3.3%	4.3%	3.4%	3.2%	2.6%	3.5%	3.1%	2.6%	2.4%	2.9%

### Stark County Low Birth Weight by Race



◆ Caucasian	6.8%	7.2%	6.3%	6.8%	6.4%	6.0%	6.5%	6.4%	6.5%	5.9%
■ African-American	14.1%	14.2%	12.5%	10.7%	8.8%	9.8%	11.6%	11.6%	7.7%	9.9%

**Source:**

Ohio Department of Health - Secure Data Warehouse

**Definition:**

**Birth Weight** - The percent of births with known weight

**Very Low Birth Weight (VLBW)** - Births of weight between 0 to 1,499 grams

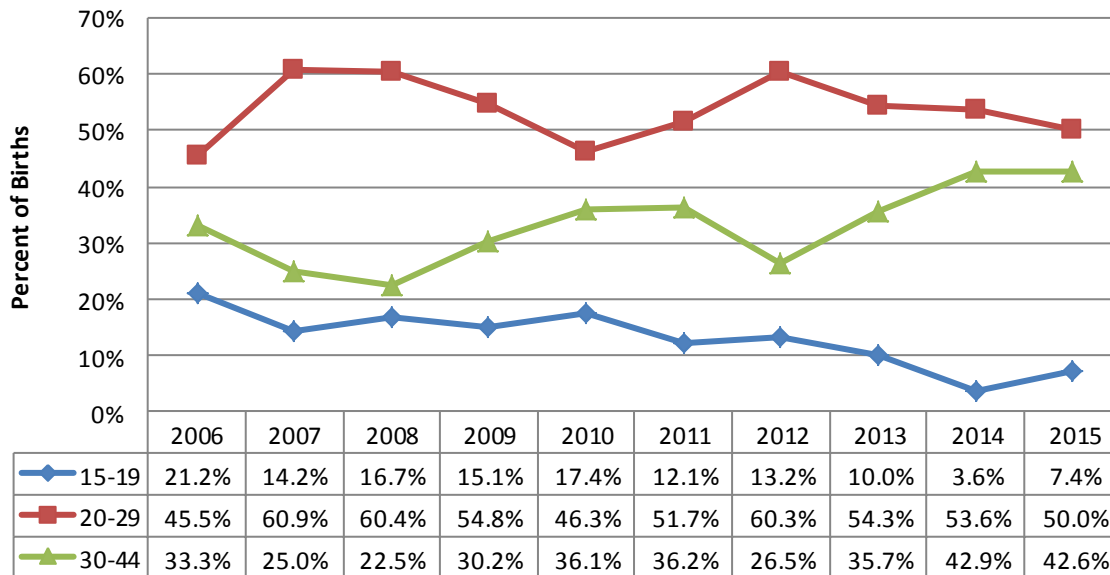
**Low Birth Weight (LBW)** - Births of weight between 1,500 to 2,499 grams

**Caveat:**

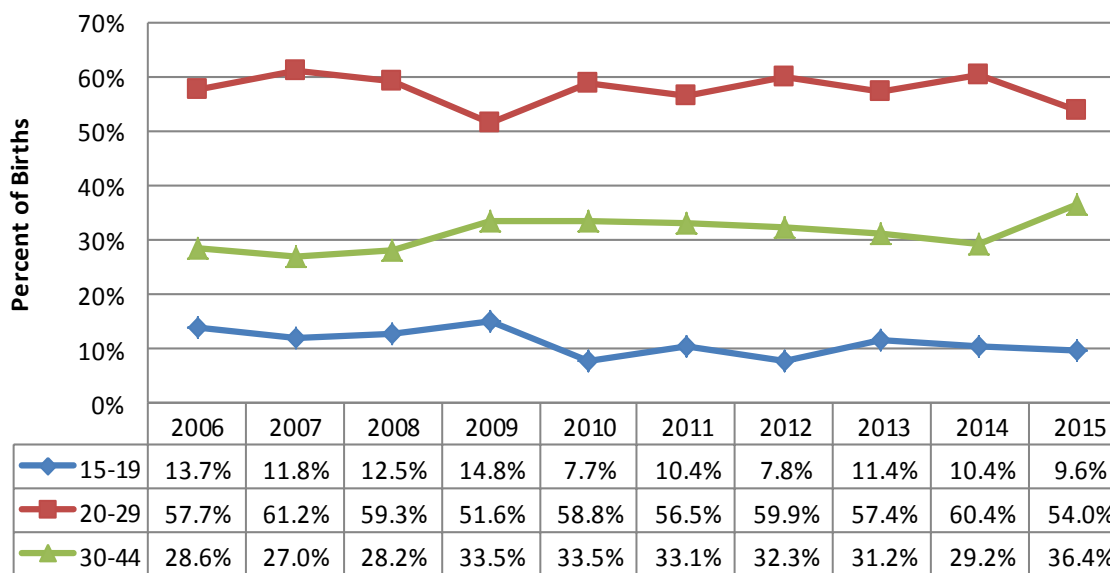
Native Americans and Asian/Pacific Islanders are not reported due to small population size.

# Physical Health

### Stark County Very Low Birth Weight by Maternal Age



### Stark County Low Birth Weight by Maternal Age



**Source:**

Ohio Department of Health - Secure Data Warehouse

**Definition:**

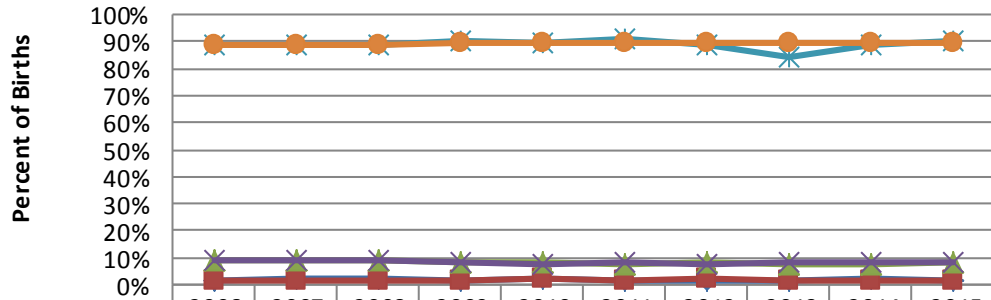
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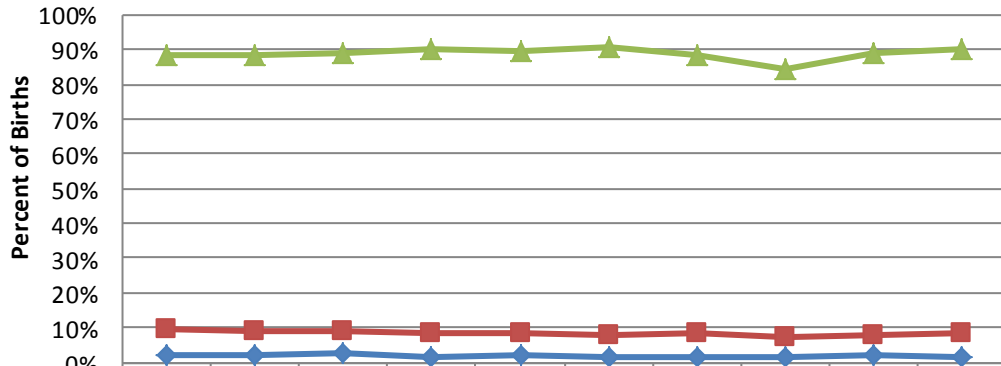
# Physical Health

## Gestational Age



	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Stark Very Pre Term	1.9%	2.2%	2.4%	1.2%	2.0%	1.5%	1.7%	1.7%	2.1%	1.4%
Ohio Very Pre Term	1.8%	1.9%	1.8%	1.9%	2.4%	1.9%	2.5%	1.8%	1.8%	1.7%
Stark Pre Term	9.4%	8.9%	8.9%	8.2%	8.4%	7.7%	8.1%	7.4%	7.7%	8.5%
Ohio Pre Term	9.3%	9.0%	8.9%	8.5%	7.9%	8.3%	7.9%	8.4%	8.4%	8.6%
Stark Term	88.6%	88.8%	88.9%	90.4%	89.5%	90.7%	88.5%	84.3%	88.9%	90.0%
Ohio Term	88.5%	88.7%	89.0%	89.3%	89.3%	89.2%	89.3%	89.3%	89.6%	89.6%

## Stark County Gestational Age



	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Very Pre Term	1.9%	2.2%	2.4%	1.2%	2.0%	1.5%	1.7%	1.7%	2.1%	1.4%
Pre Term	9.4%	8.9%	8.9%	8.2%	8.4%	7.7%	8.1%	7.4%	7.7%	8.5%
Term	88.6%	88.8%	88.9%	90.4%	89.5%	90.7%	88.5%	84.3%	88.9%	90.0%

**Source:**

Ohio Department of Health - Secure Data Warehouse

**Definition:**

Gestational Age - is a clinical estimation

Very Pre-Term - <32 Weeks

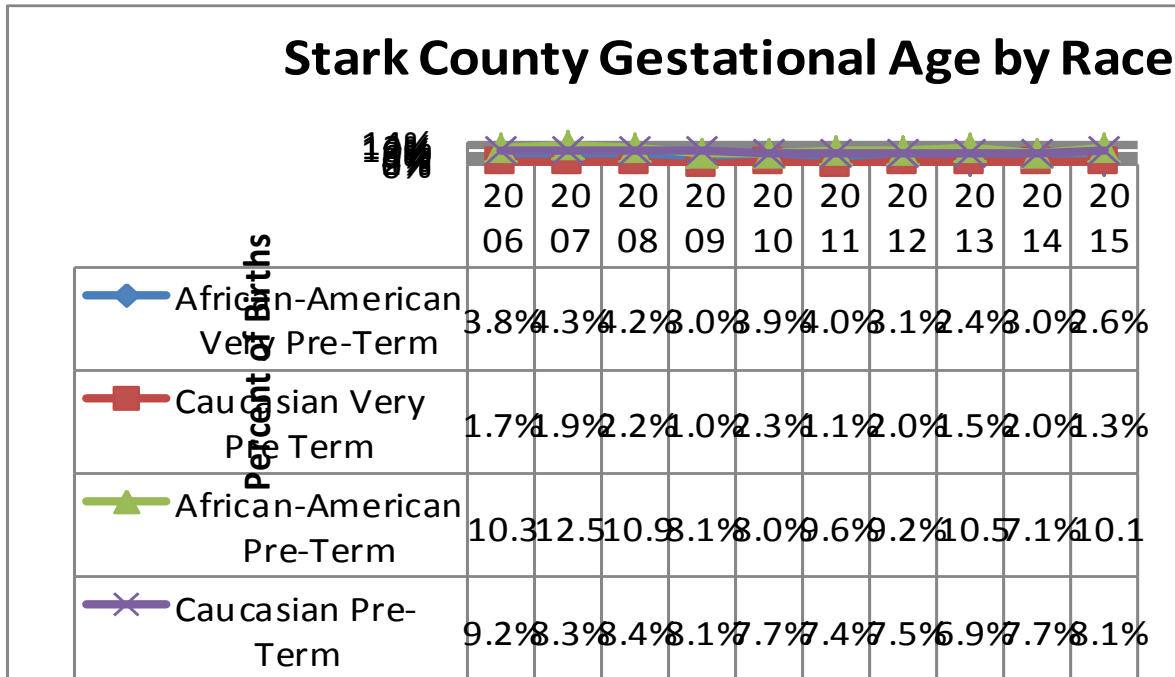
Pre-Term - 32 to 36 Weeks

Term - 37 to 42 Weeks

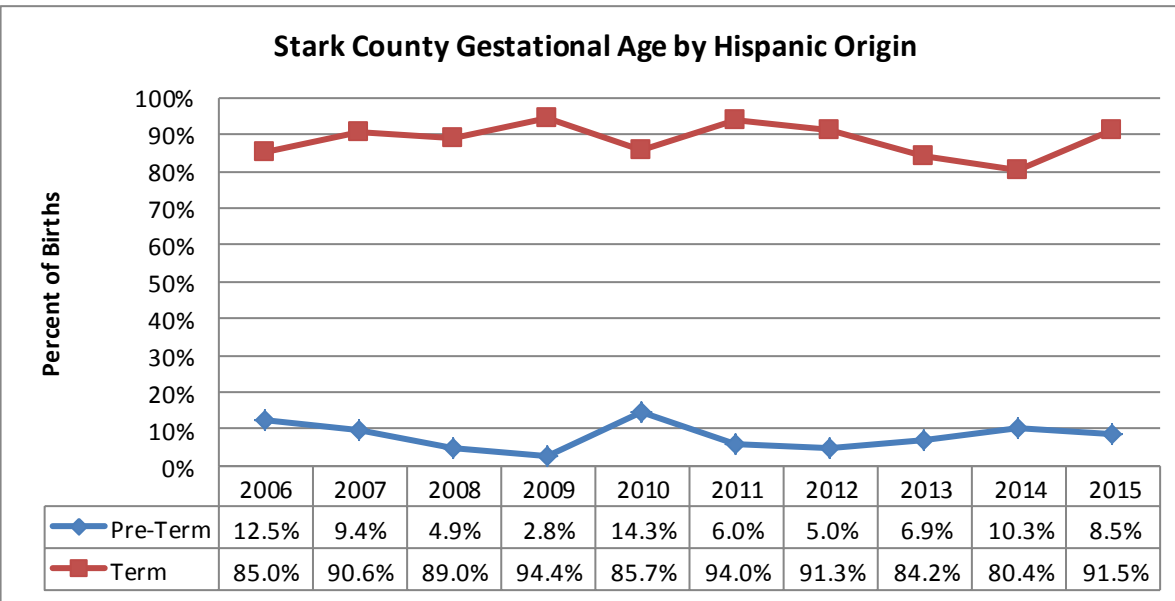
Post-Term - >42 Weeks (not reported)

# Physical Health

## Stark County Gestational Age by Race



## Stark County Gestational Age by Hispanic Origin



**Source:**

Ohio Department of Health - Secure Data Warehouse

**Definition:**

Gestational Age - is a clinical estimation

Very Pre-Term - <32 Weeks

Pre-Term - 32 to 36 Weeks

Term - 37 to 42 Weeks

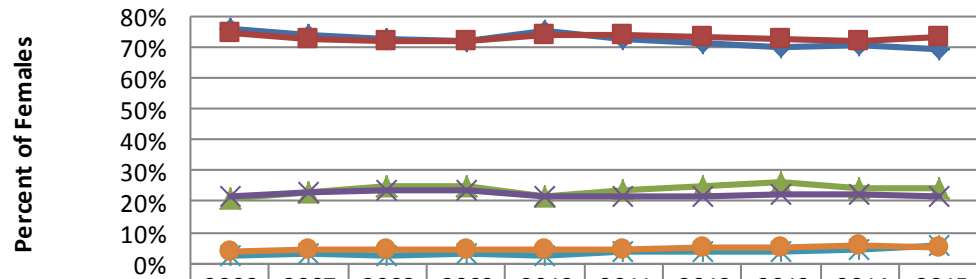
Post-Term - >42 Weeks (not reported)

**Caveat:**

Native Americans and Asian/Pacific Islanders are not reported due to small population size.

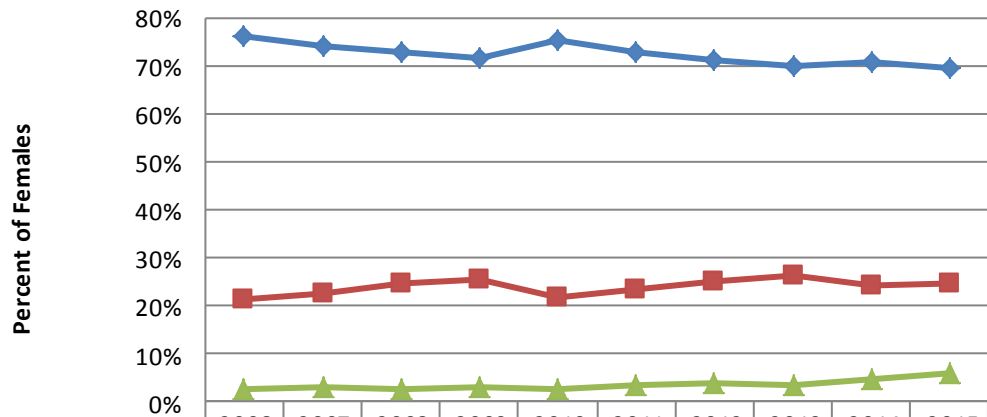
# Physical Health

## Trimester of Entry into Prenatal Care



	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
◆ Stark First Trimester	76.1%	74.1%	72.8%	71.8%	75.4%	73.0%	71.2%	70.1%	71.0%	69.7%
■ Ohio First Trimester	74.5%	72.8%	71.8%	71.9%	73.9%	73.9%	73.4%	72.6%	72.2%	73.1%
▲ Stark second Trimester	21.3%	22.7%	24.6%	25.3%	21.9%	23.5%	25.1%	26.3%	24.4%	24.5%
✕ Ohio Second Trimester	21.5%	22.7%	23.5%	23.6%	21.8%	21.6%	21.8%	22.5%	22.3%	21.7%
✦ Stark Third Trimester	2.7%	3.2%	2.6%	2.9%	2.7%	3.5%	3.7%	3.6%	4.5%	5.8%
● Ohio Third Trimester	4.0%	4.5%	4.6%	4.5%	4.3%	4.5%	4.8%	4.9%	5.5%	5.2%

## Stark County Trimester of Entry into Prenatal Care



	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
◆ Stark First Trimester	76.1%	74.1%	72.8%	71.8%	75.4%	73.0%	71.2%	70.1%	71.0%	69.7%
■ Stark Second Trimester	21.3%	22.7%	24.6%	25.3%	21.9%	23.5%	25.1%	26.3%	24.4%	24.5%
▲ Stark Third Trimester	2.7%	3.2%	2.6%	2.9%	2.7%	3.5%	3.7%	3.6%	4.5%	5.8%

**Source:**

Ohio Department of Health - Secure Data Warehouse

**Definition:**

**First Trimester** - Time period extending from the first day of the last menstrual period through 12 weeks of gestation.

**Second Trimester** - Time period extending from the 13th to the 27th week of gestation.

**Third Trimester** - Time period extending from the 28th week of gestation until delivery.

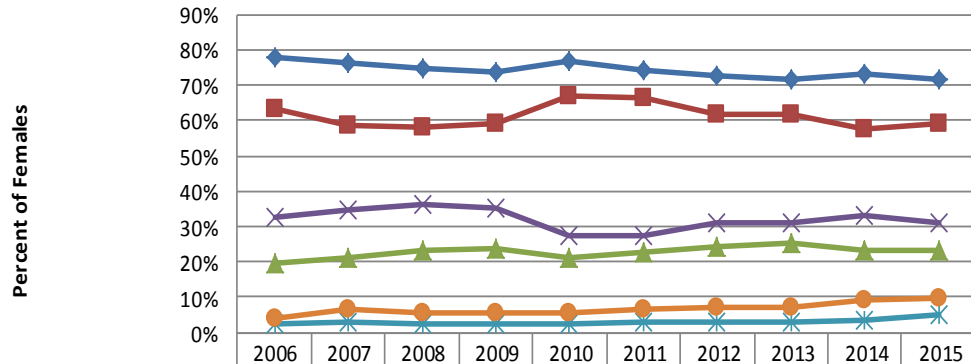
**Caveat:**

Does not include females who did not receive prenatal care or who did not report.



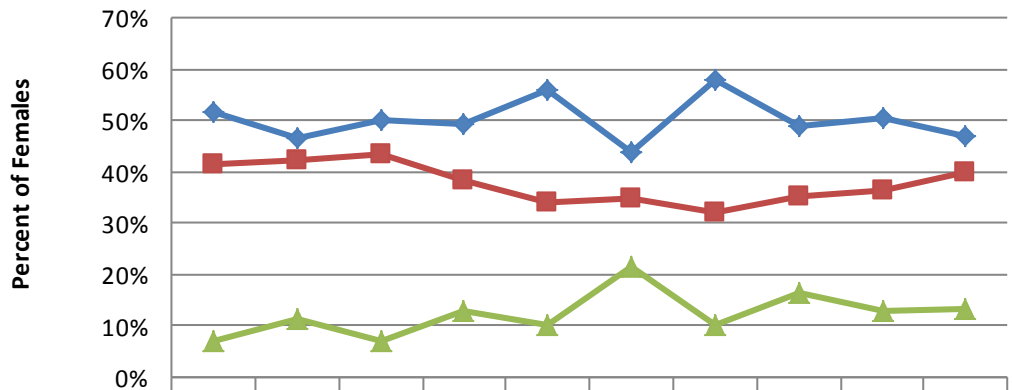
# Physical Health

**Stark County Trimester of Entry into Prenatal Care by Race**



	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
◆ Caucasian First Trimester	77.7%	76.1%	74.8%	73.6%	76.8%	74.5%	72.6%	71.5%	73.2%	71.7%
■ African-American First Trimester	63.4%	58.6%	58.3%	59.3%	67.1%	66.3%	61.9%	62.1%	57.6%	59.2%
▲ Caucasian Second Trimester	19.8%	21.1%	23.0%	23.8%	21.0%	22.7%	24.3%	25.5%	23.2%	23.3%
✕ African-American Second Trimester	32.4%	34.6%	36.1%	35.3%	27.6%	27.4%	30.8%	31.0%	33.1%	31.3%
✧ Caucasian Third Trimester	2.5%	2.8%	2.2%	2.6%	2.2%	2.8%	3.2%	3.0%	3.6%	5.0%
● African-American Third Trimester	4.1%	6.8%	5.6%	5.4%	5.3%	6.4%	7.3%	6.9%	9.4%	9.5%

**Stark County Trimester of Entry into Prenatal Care by Hispanic Origin**



	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
◆ First Trimester	51.7%	46.7%	50.0%	49.2%	55.9%	43.9%	58.0%	48.8%	50.6%	47.0%
■ Second Trimester	41.4%	42.2%	43.2%	38.1%	33.9%	34.8%	31.9%	35.0%	36.5%	40.0%
▲ Third Trimester	6.9%	11.1%	6.8%	12.7%	10.2%	21.2%	10.1%	16.3%	12.9%	13.0%

**Source:**

Ohio Department of Health - Secure Data Warehouse

**Definition:**

**First Trimester** - Time period extending from the first day of the last menstrual period through 12 weeks of gestation.

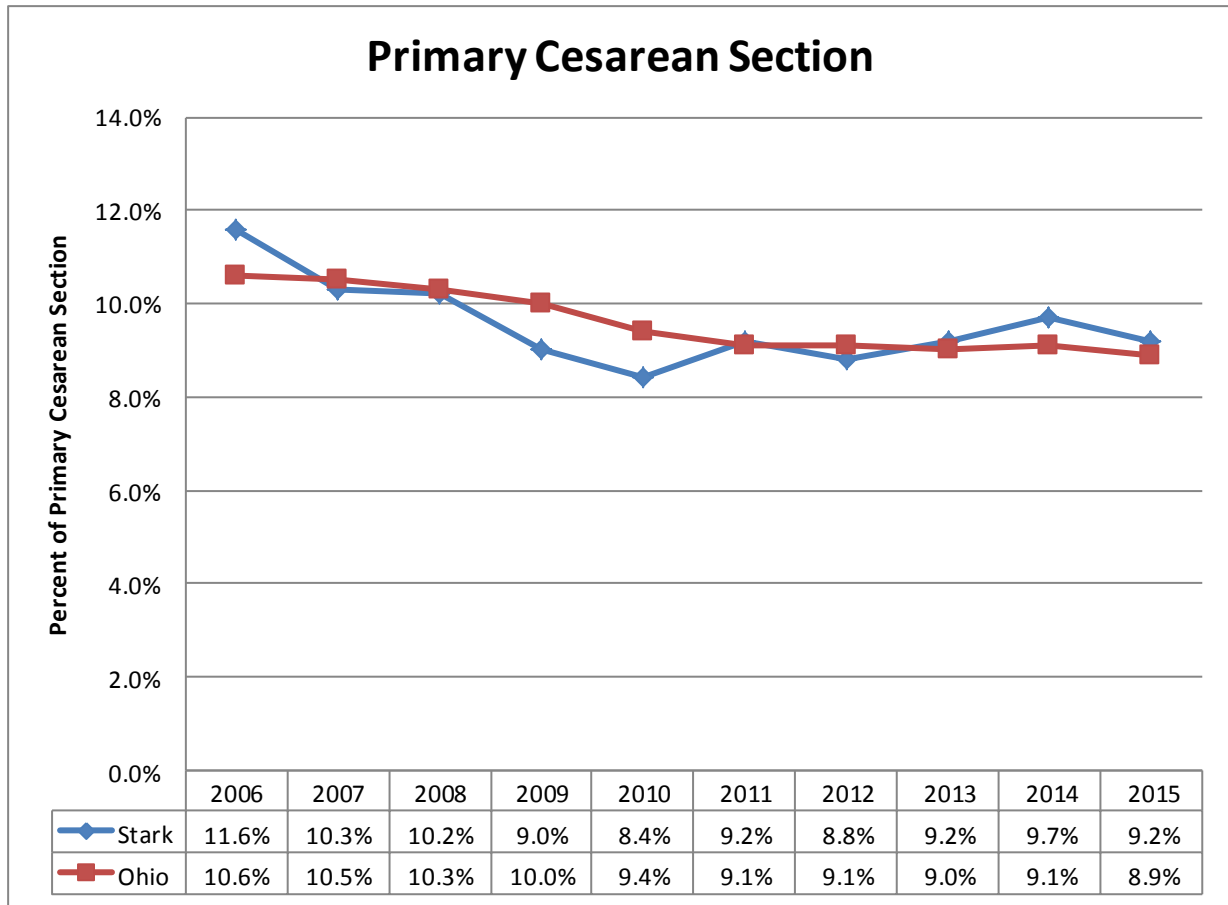
**Second Trimester** - Time period extending from the 13th to the 27th week of gestation.

**Third Trimester** - Time period extending from the 28th week of gestation until delivery.

**Caveat**

Native Americans and Asian/Pacific Islanders are not reported due to small population size.

# Physical Health



**Source:**

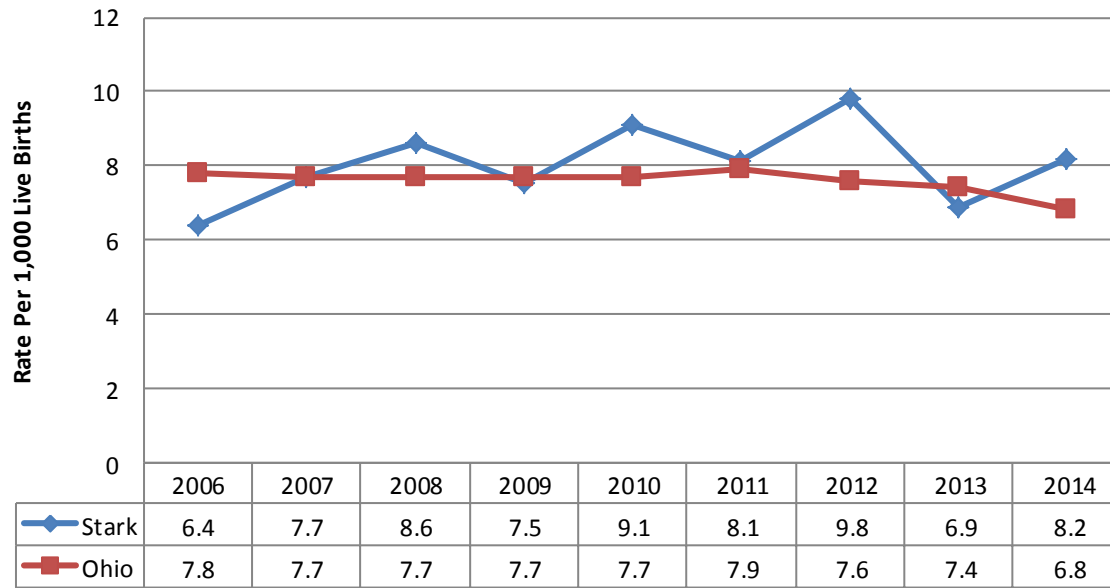
Ohio Department of Health - Ohio Public Health Data Warehouse

**Caveat:**

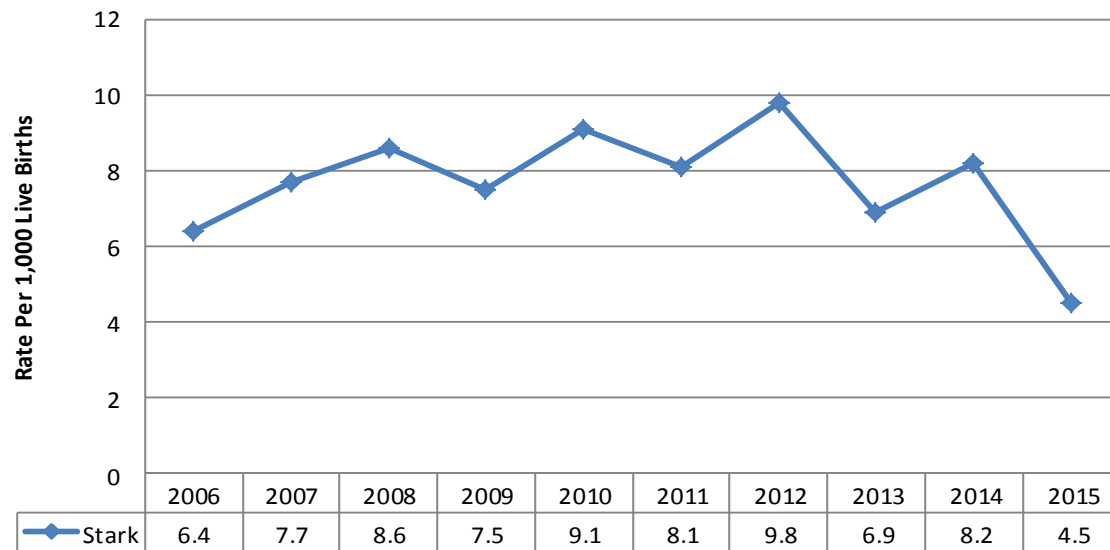
The Ohio Department of Health specifically disclaims responsibility for any analysis, interpretations or conclusions.

# Physical Health

## Infant Mortality Rate



## Stark County Infant Mortality Rate



**Source:**

Ohio Department of Health - Vital Statistics

**Definition:**

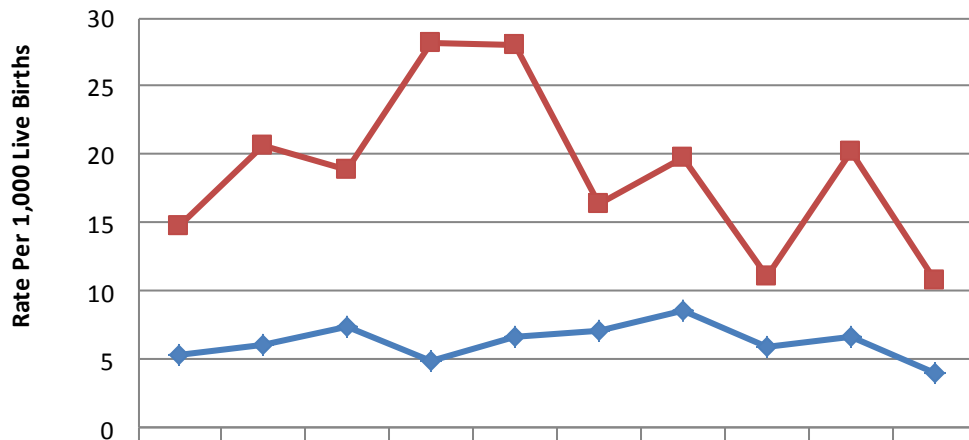
Infant Mortality Rate - Number of infant deaths per 1,000 live births.

**Note:**

Stark County 2015 data is preliminary. Preliminary means the data is strong enough to show a certain result, but has not been thoroughly analyzed.

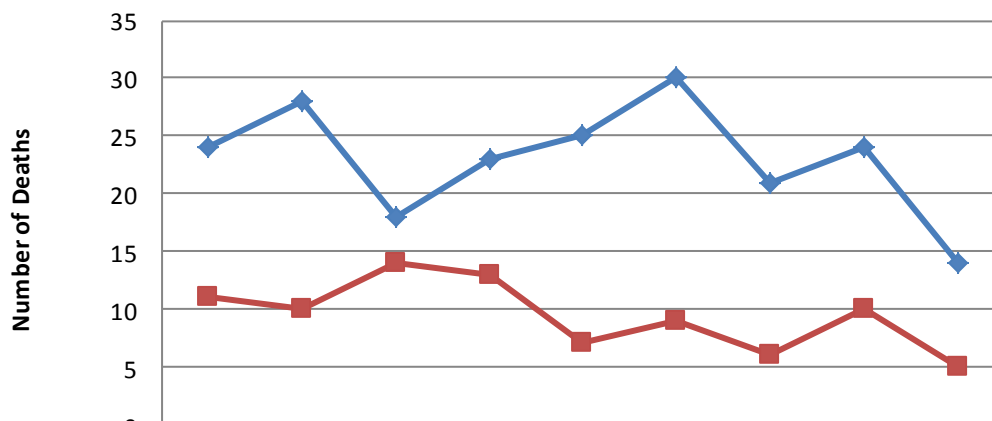
# Physical Health

### Stark County Infant Mortality Rate By Race



— Caucasian	5.3	6	7.3	4.9	6.6	7.1	8.5	5.9	6.7	3.9
— African-American	14.7	20.6	18.9	28.2	28	16.3	19.7	11	20.2	10.8

### Stark County Infant Deaths by Race



— Caucasian	24	28	18	23	25	30	21	24	14
— African-American	11	10	14	13	7	9	6	10	5

**Source:**

Ohio Department of Health - Vital Statistics

**Definition:**

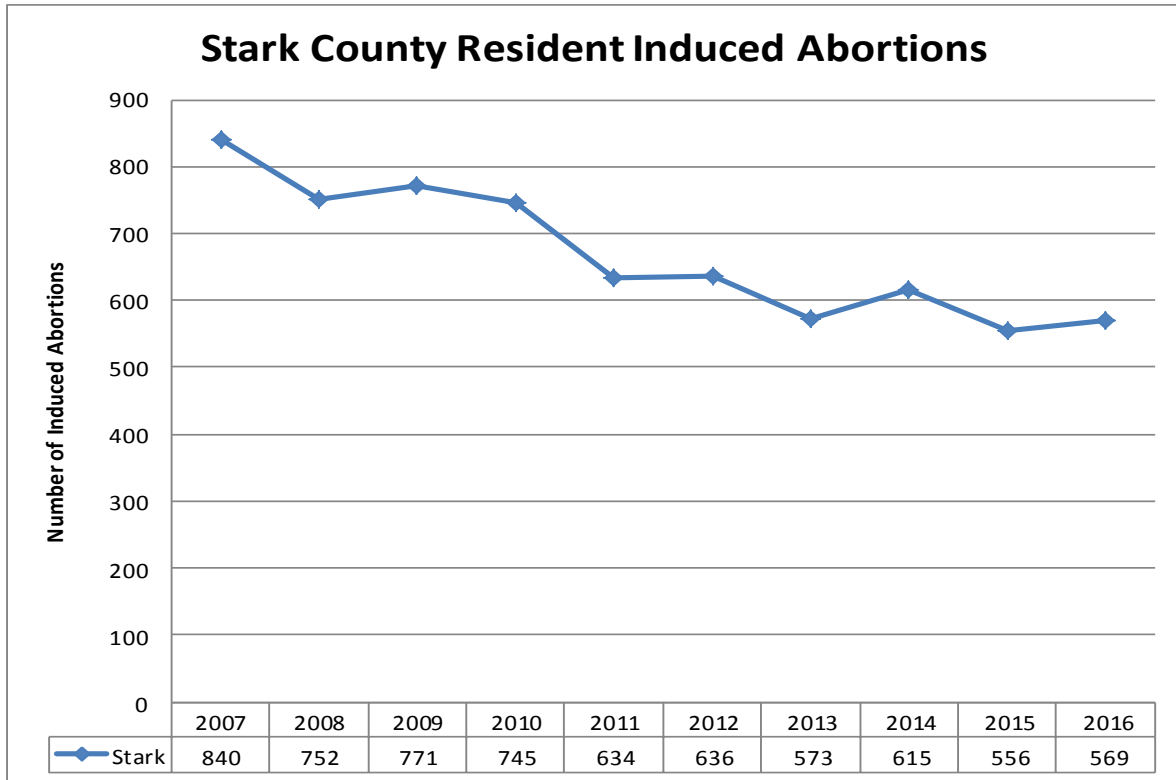
Infant Mortality Rate - Number of infant deaths per 1,000 live births.

**Caveat:**

Stark County 2015 data is preliminary. Preliminary means the data is strong enough to show a certain result, but has not been thoroughly analyzed.

Native Americans and Asian/Pacific Islanders are not reported due to small population size.

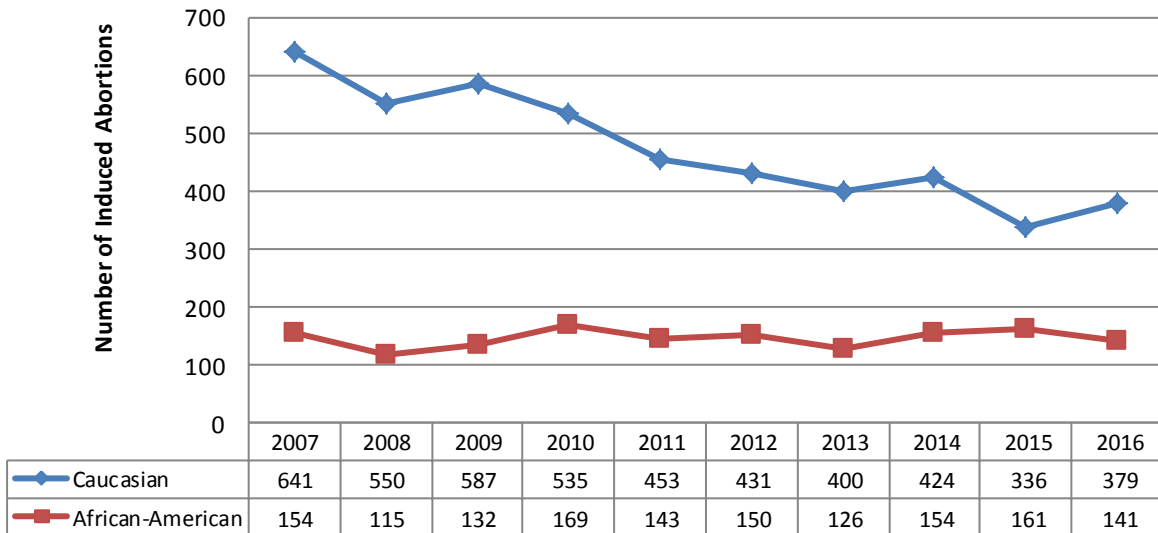
# Physical Health



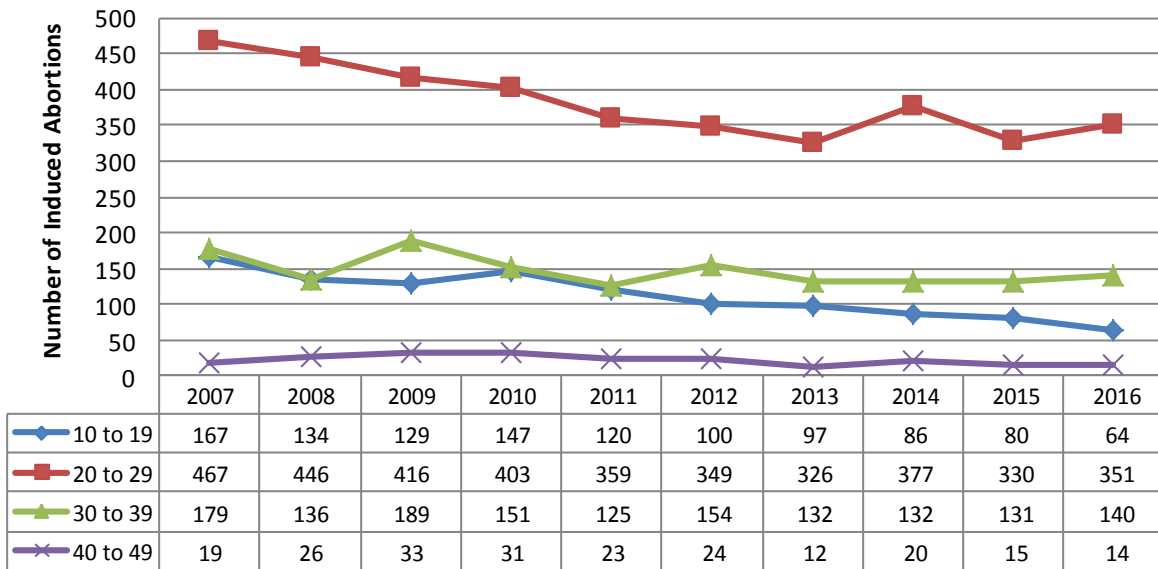
**Source:** Ohio Department of Health - Induced Abortions in Ohio  
**Table 3: Resident Induced Abortions by County of Residence, 2007-2016**  
**Definition:**  
 Induced Abortions - Pregnancy terminated by a physician.

# Physical Health

**Stark County Resident Induced Abortions by Race**



**Stark County Resident Induced Abortions by Maternal Age**



Source: Ohio Department of Health - Induced Abortions in Ohio

Table 5a: Resident Induced Abortions 2006-2014

Definition:

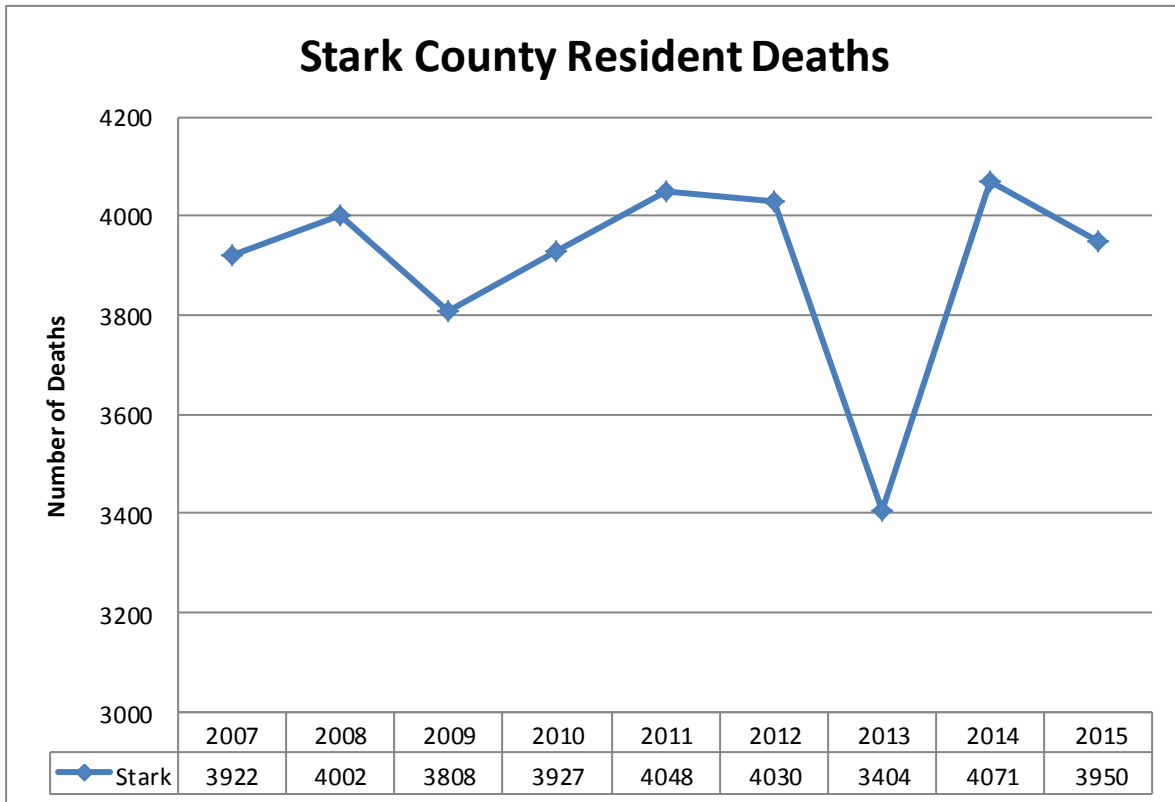
Induced Abortions - Pregnancy terminated by a physician.

Caveat:

Native Americans and Asian/Pacific Islanders are not reported due to small population size.

No data was available for age 50 and over.

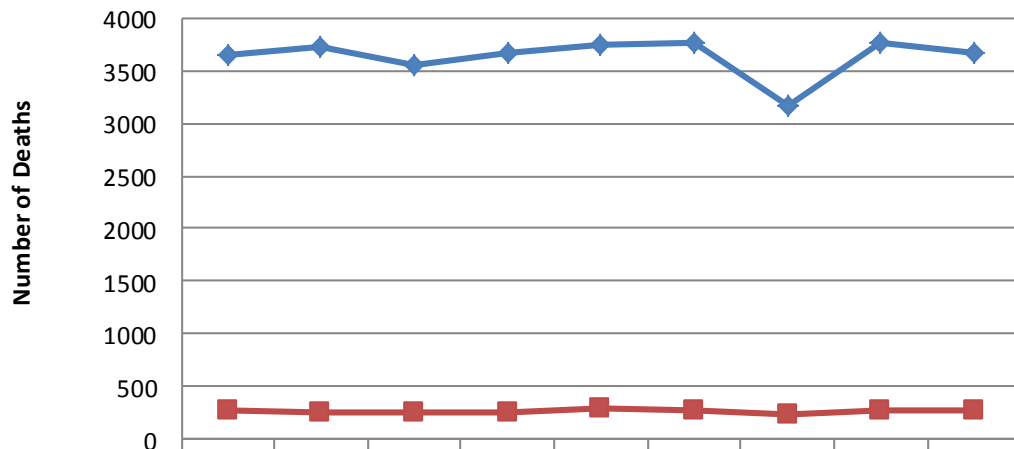
# Physical Health



Source:  
Ohio Department of Health - Vital Statistics

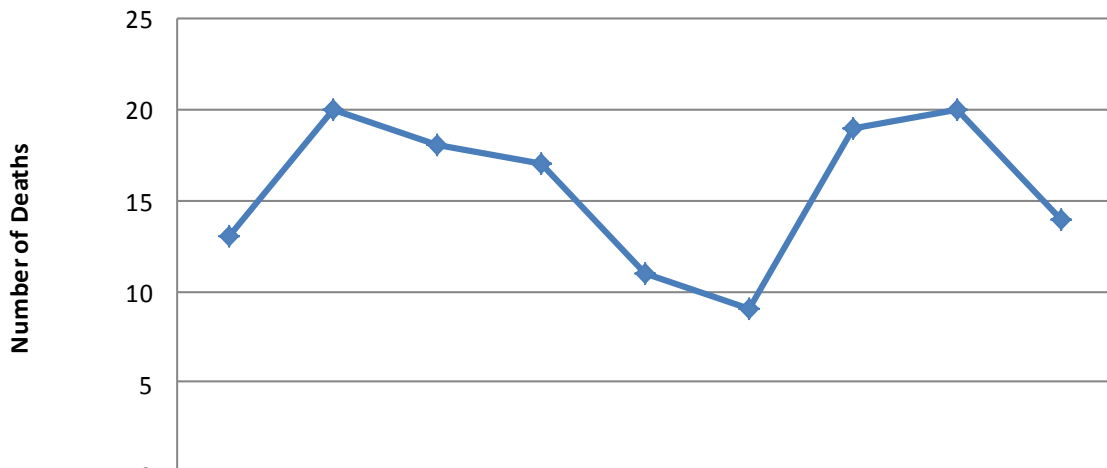
# Physical Health

### Stark County Resident Deaths by Race



	2007	2008	2009	2010	2011	2012	2013	2014	2015
—◆— Caucasian	3653	3740	3549	3664	3751	3760	3166	3776	3672
—■— African-American	261	250	249	253	277	262	223	273	267

### Stark County Resident Deaths by Hispanic Origin



	2007	2008	2009	2010	2011	2012	2013	2014	2015
—◆— Hispanic	13	20	18	17	11	9	19	20	14

**Source:**

Ohio Department of Health - Vital Statistics

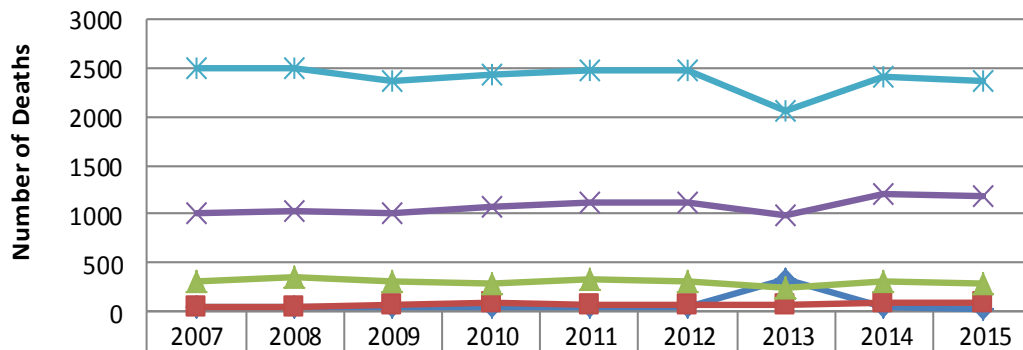
**Caveat:**

Native Americans and Asian/Pacific Islanders are not reported due to small population size.



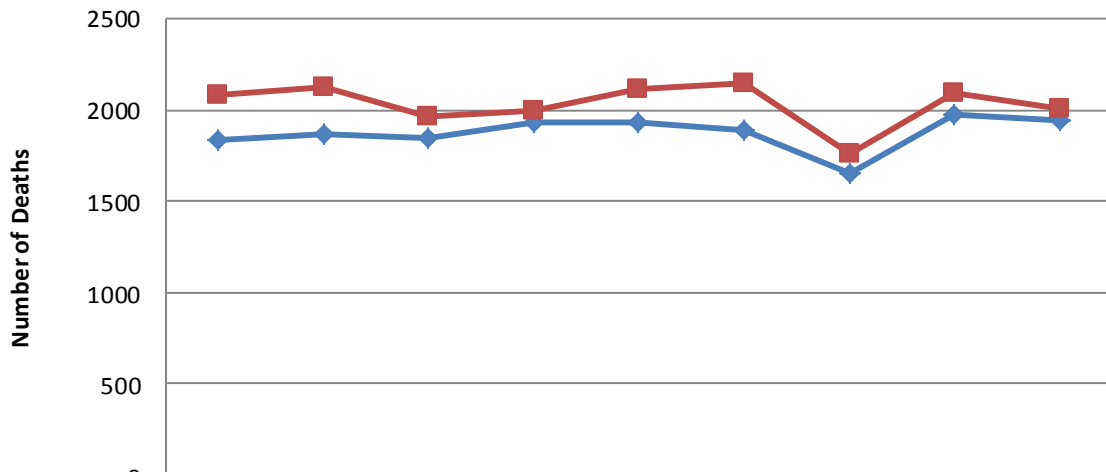
# Physical Health

## Stark County Resident Deaths by Age



◆ <1 year to 14	53	51	46	46	40	56	333	44	25
■ 15 to 34	52	57	75	82	72	66	63	101	84
▲ 35 to 54	302	355	310	291	339	318	254	312	286
✕ 55 to 74	1020	1035	1008	1080	1112	1119	985	1206	1177
✱ 75 to 85+	2495	2504	2369	2428	2485	2471	2069	2407	2378

## Stark County Resident Deaths by Gender

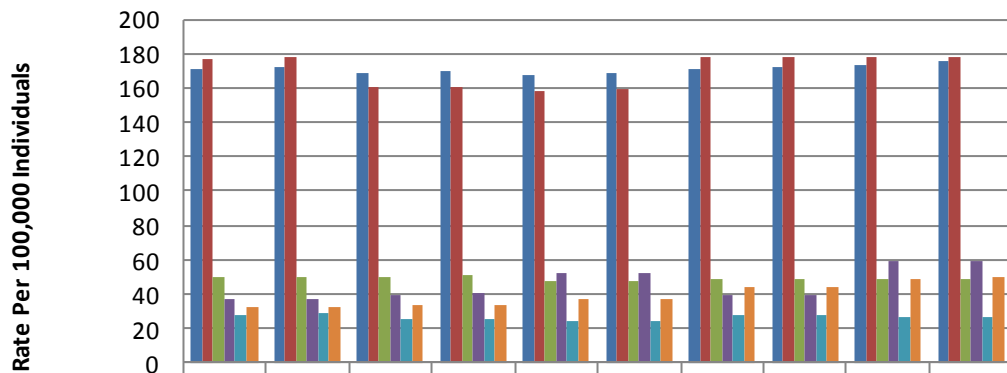


◆ Male	1840	1872	1842	1928	1927	1888	1648	1975	1939
■ Female	2082	2130	1966	1999	2110	2142	1756	2095	2011

Source:  
Ohio Department of Health - Vital Statistics

# Physical Health

## Leading Causes of Death



	Stark 2012	Ohio 2012	Stark 2013	Ohio 2013	Stark 2014	Ohio 2014	Stark 2015	Ohio 2015	Stark 2016	Ohio 2016
Malignant Neoplasms	170.5	171.6	168.3	169.4	167.9	168.2	170.6	171.8	173.9	175.2
Diseases of Heart	176.6	177.5	160.3	160.8	158.1	159	177.4	177.9	177.8	178.5
CLRD	50.2	50.1	50.2	50.5	47.2	47.5	48.1	48.5	48.6	48.6
Unintentional Injuries	37.1	37.5	39.9	40.1	52	52.2	39.3	39.9	58.6	59.5
Diabetes	28	28.3	25	25.1	24.2	24.4	27.5	27.8	26.3	26.5
Alzheimer's Disease	32.5	32.7	33.6	33.7	36.7	36.9	44.2	44.5	49	49.3

**Source:**

Ohio Department of Health, Ohio Public Health Data Warehouse

**Definition:**

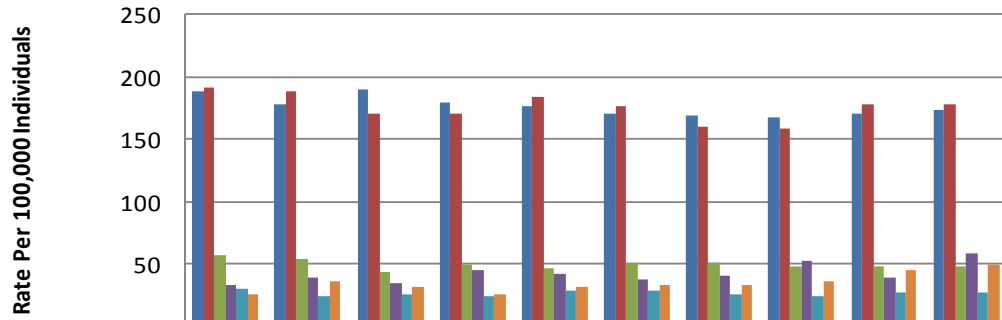
Age-Adjusted Death Rate - Rate per 100,000 population age standardized to average out differences due to changes in the overall age of the population.

Malignant Neoplasms - Cancer

CLRD - Chronic Lower Respiratory Diseases

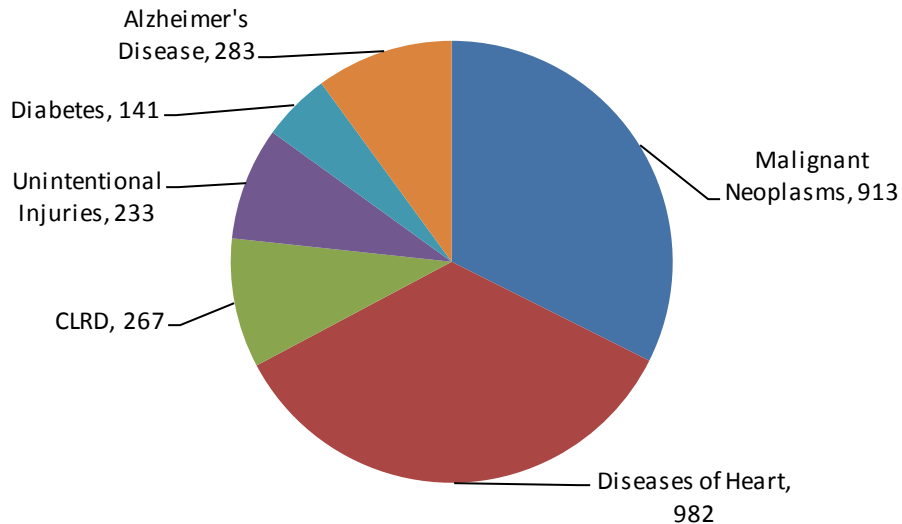
# Physical Health

## Stark County Leading Causes of Death



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
■ Malignant Neoplasms	188.2	177.8	190.4	179.7	177.1	170.5	168.3	167.9	170.6	173.9
■ Diseases of Heart	192	188.4	170.1	170.5	183.9	176.6	160.3	158.1	177.4	177.8
■ CLRD	57.1	53.3	44.1	50.1	45.7	50.2	50.2	47.2	48.1	48.6
■ Unintentional Injuries	33.2	38.8	35.1	44.8	41.8	37.1	39.9	52	39.3	58.6
■ Diabetes	30.5	24.7	25.4	24.2	29.1	28	25	24.2	27.5	26.3
■ Alzheimer's Disease	26.2	36.7	31.3	26.1	30.9	32.5	33.6	36.7	44.2	49

## Stark County Leading Causes of Death 2016



**Source:**

Ohio Department of Health, Ohio Public Health Data Warehouse

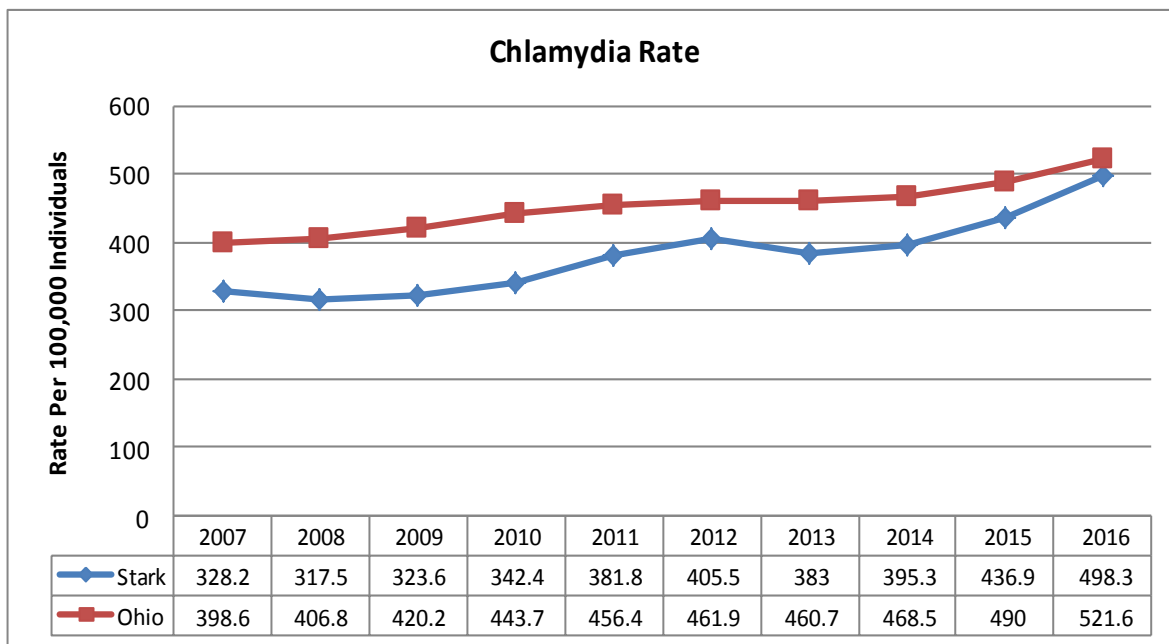
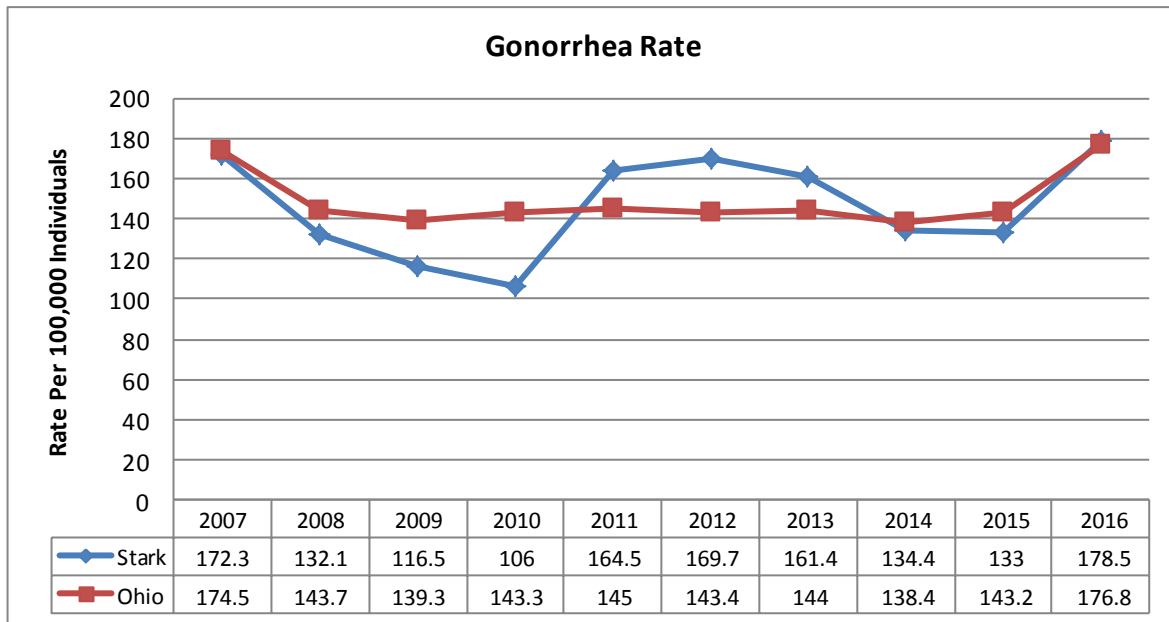
**Definition:**

Age-Adjusted Death Rate - Rate per 100,000 population age standardized to average out differences due to changes in the overall age of the population.

Malignant Neoplasms - Cancer

CLRD - Chronic Lower Respiratory Diseases

# Physical Health

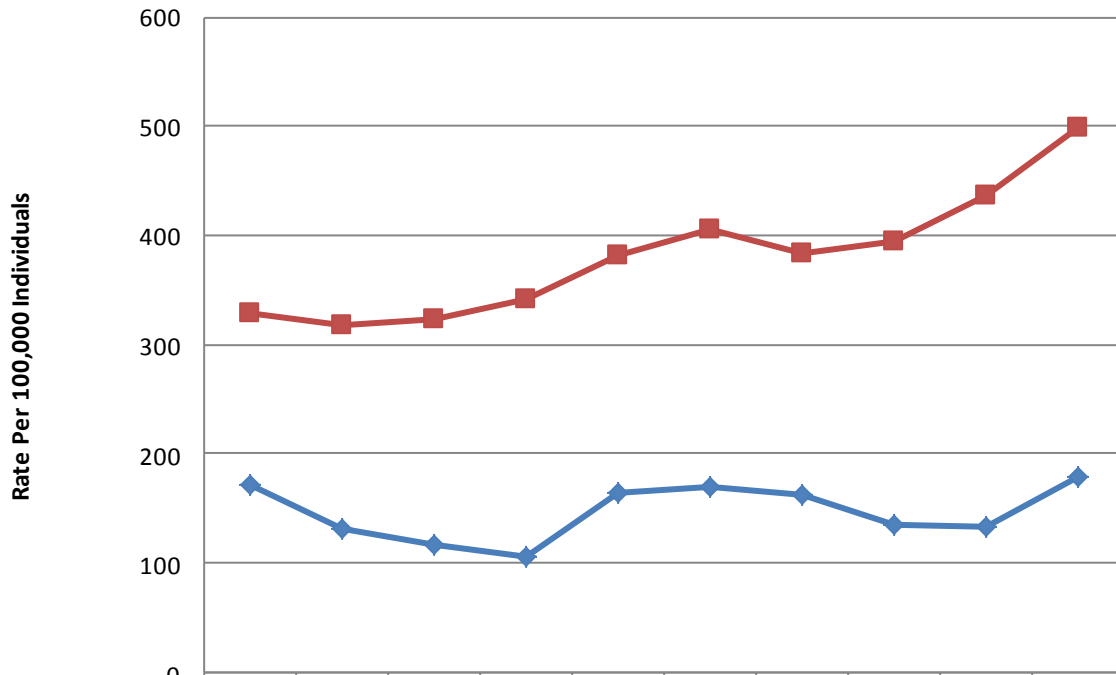


**Source:**  
Ohio Department of Health - STD Surveillance Program

**Notes:**  
Rates are shown per 100,000 persons and were calculated using census estimates for that year.  
Provisional data. Numbers subject to change when additional information is gained.

# Physical Health

## Stark County Sexually Transmitted Infections



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
◆ Gonorrhea	172.3	132.1	116.5	106	164.5	169.7	161.6	134.4	133	178.5
■ Chlamydia	328.2	317.5	323.6	342.4	381.8	405.3	383.5	395.3	436.9	498.3

**Source:**

Ohio Department of Health - STD Surveillance Program

**Notes:**

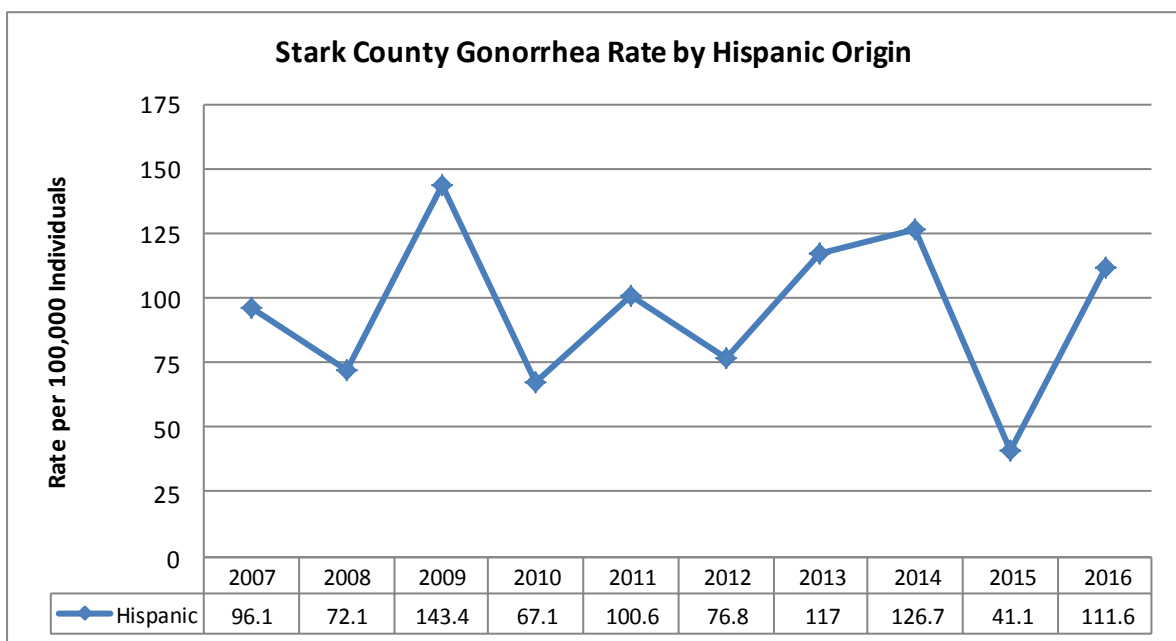
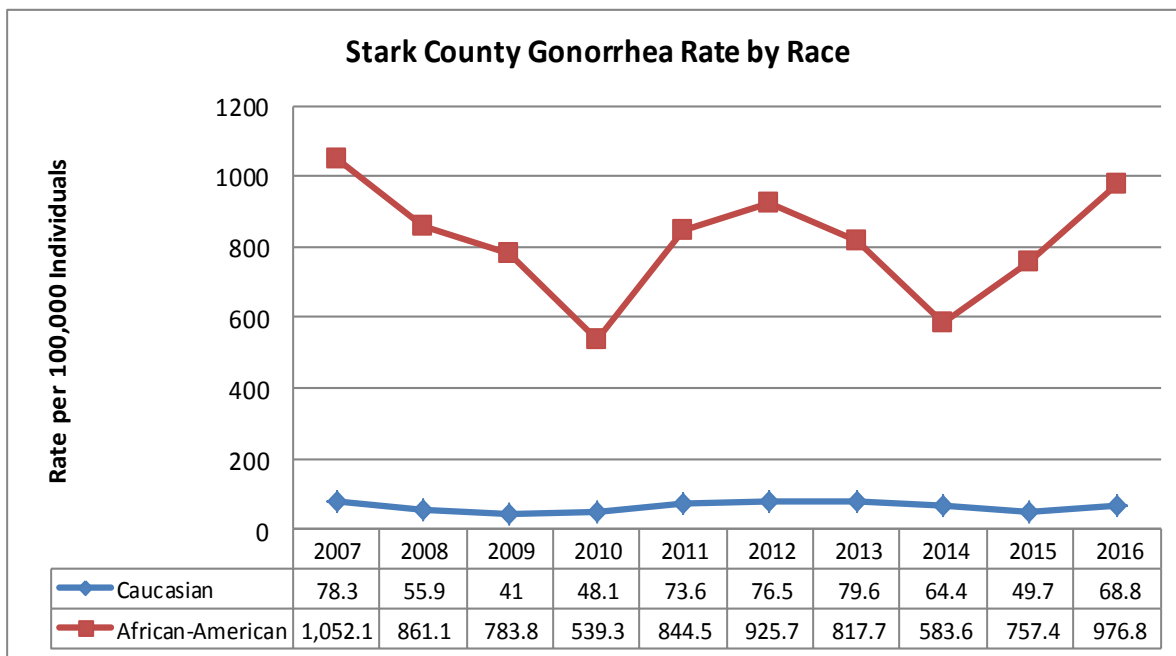
Rates are shown per 100,000 persons and were calculated using census estimates for that year.

Syphilis diagnoses are not a good indicator of sexually transmitted diseases due to the small numbers of diagnoses.

Small numbers are unstable and should be interpreted with caution.

Provisional data. Numbers subject to change when additional information is gained.

# Physical Health



**Source:**

Ohio Department of Health - STD Surveillance Program

**Caveat:**

Native Americans and Asian/Pacific Islanders are not reported due to small population size.

**Notes:**

In this presentation, date of diagnosis is defined as the date the specimen was collected by the provider.

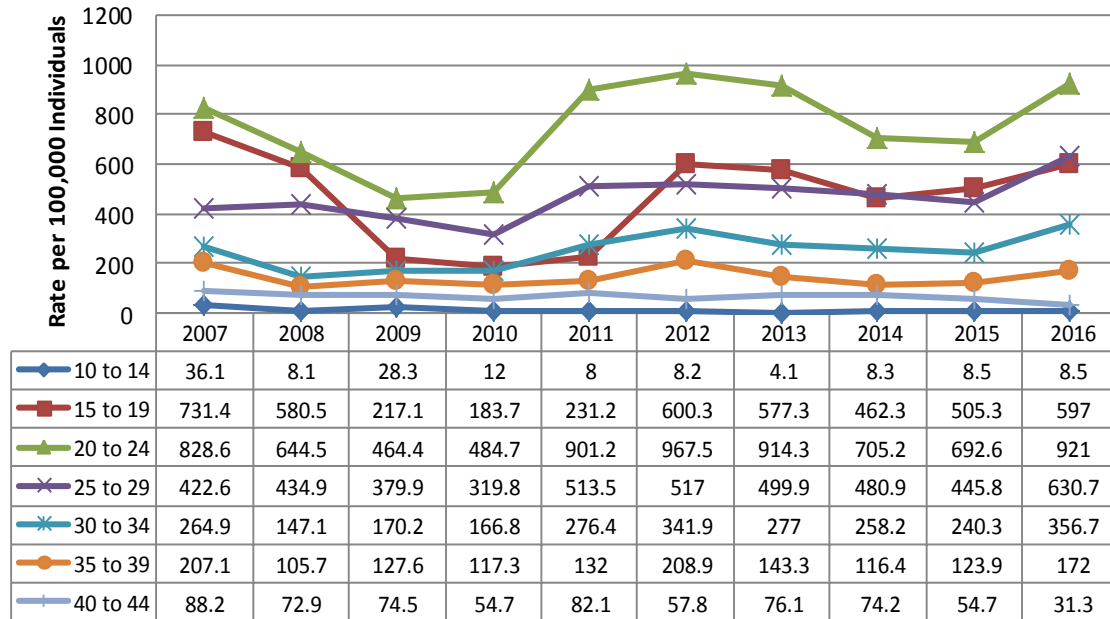
Rates are shown per 100,000 persons and were calculated using census estimates for that year.

Provisional data. Numbers subject to change when additional information is gained.

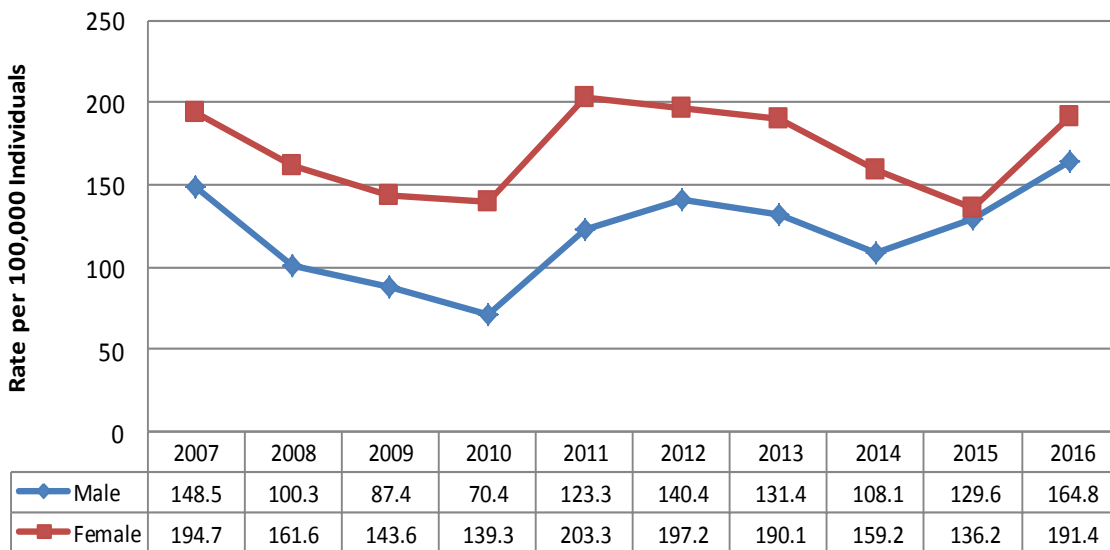
Small numbers are unstable and should be interpreted with caution.

# Physical Health

### Stark County Gonorrhea Rate by Age



### Stark County Gonorrhea Rate by Gender



Source:  
Ohio Department of Health - STD Surveillance Program

Notes:

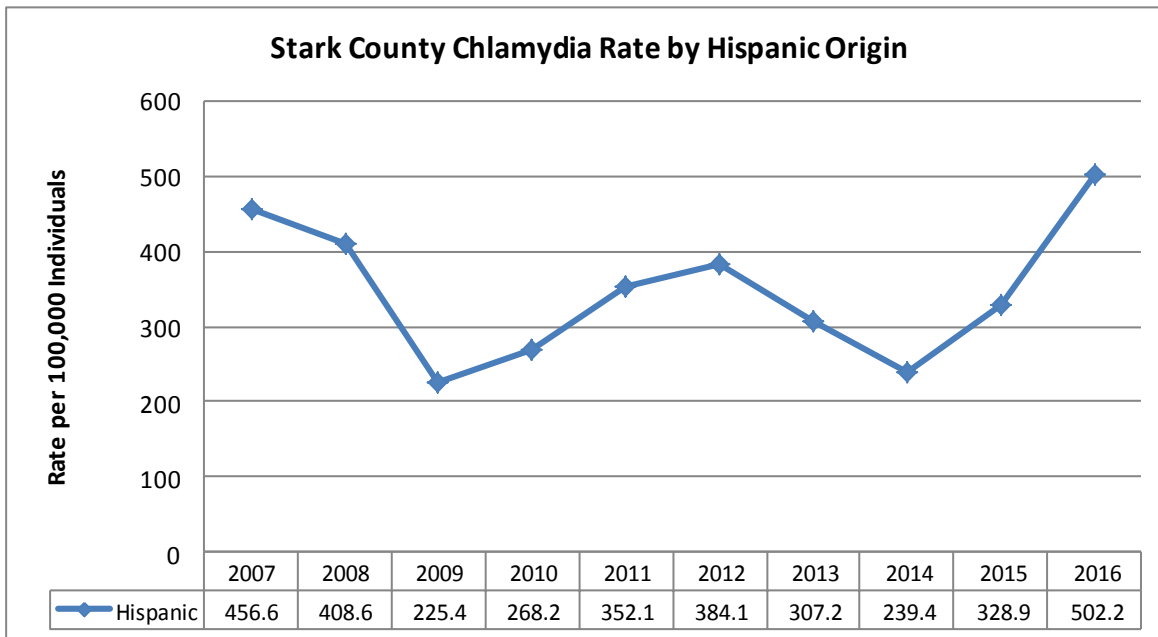
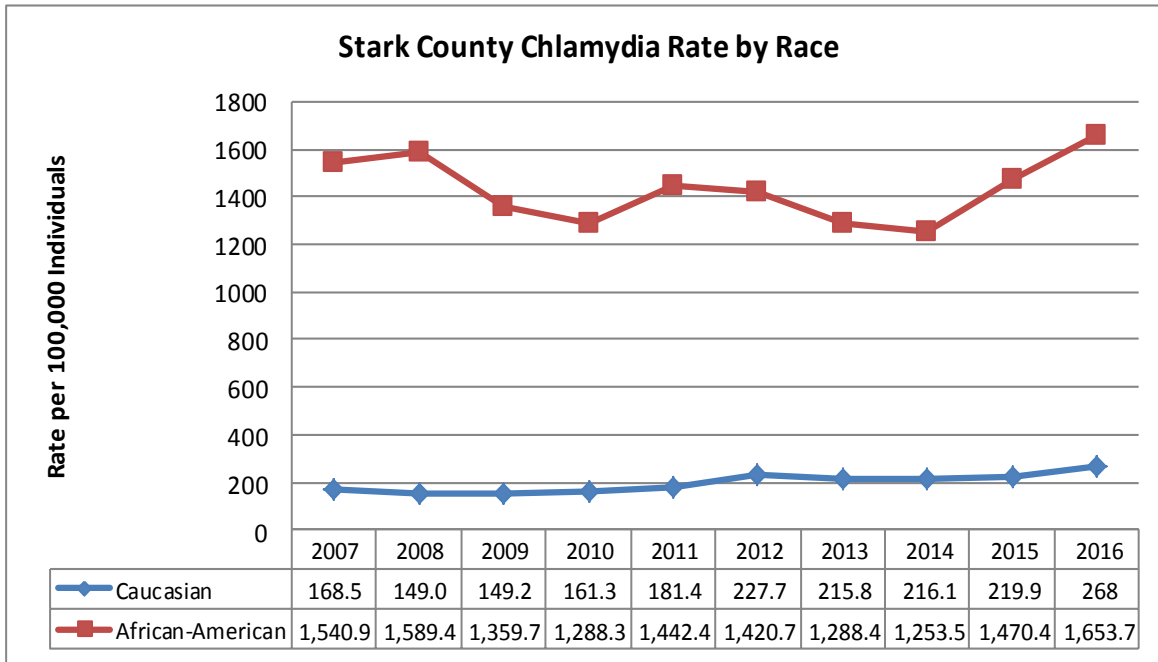
In this presentation, date of diagnosis is defined as the date the specimen was collected by the provider.

Rates are shown per 100,000 persons and were calculated using census estimates for that year.

Small numbers are unstable and should be interpreted with caution.

Provisional data. Numbers subject to change when additional information is gained.

# Physical Health



**Source:**

Ohio Department of Health - STD Surveillance Program

**Caveat:**

Native Americans and Asian/Pacific Islanders are not reported due to small population size.

**Notes:**

In this presentation, date of diagnosis is defined as the date the specimen was collected by the provider.

Rates are shown per 100,000 persons and were calculated using census estimates for that year.

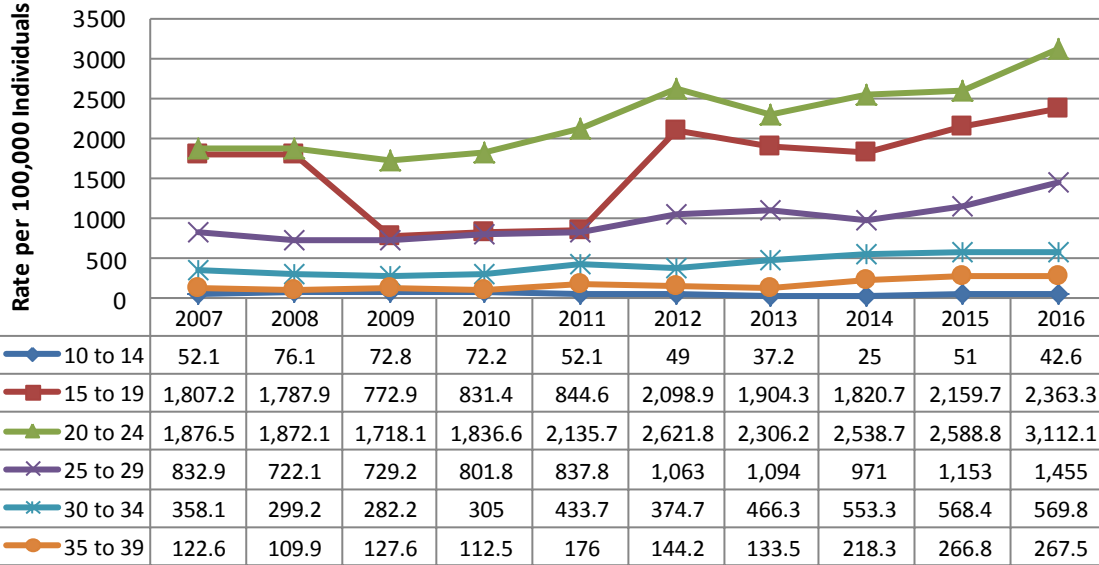
Provisional data. Numbers subject to change when additional information is gained.

Small numbers are unstable and should be interpreted with caution.

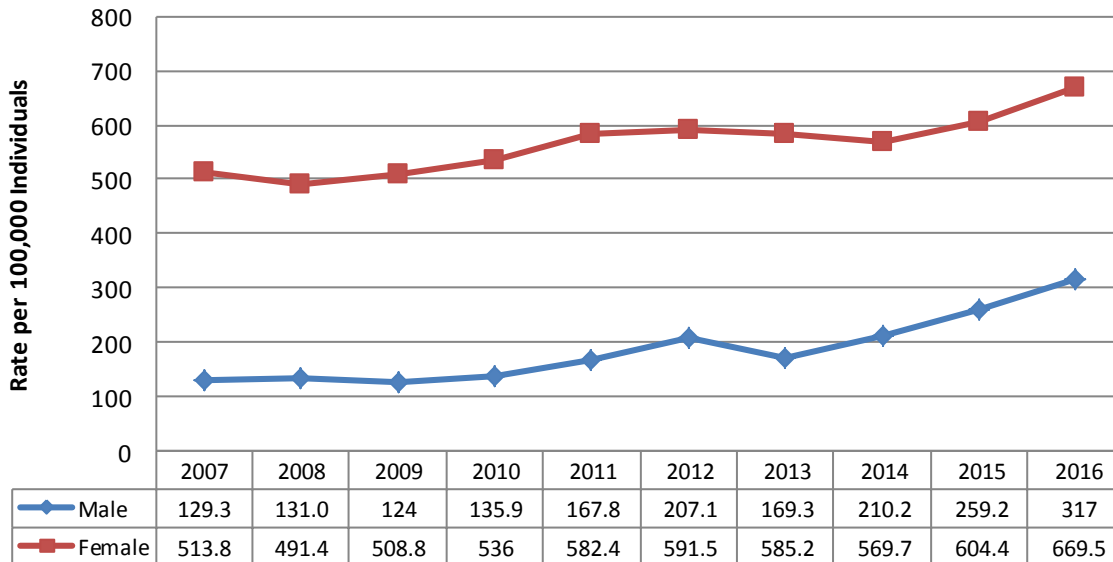


# Physical Health

### Stark County Chlamydia Rate by Age



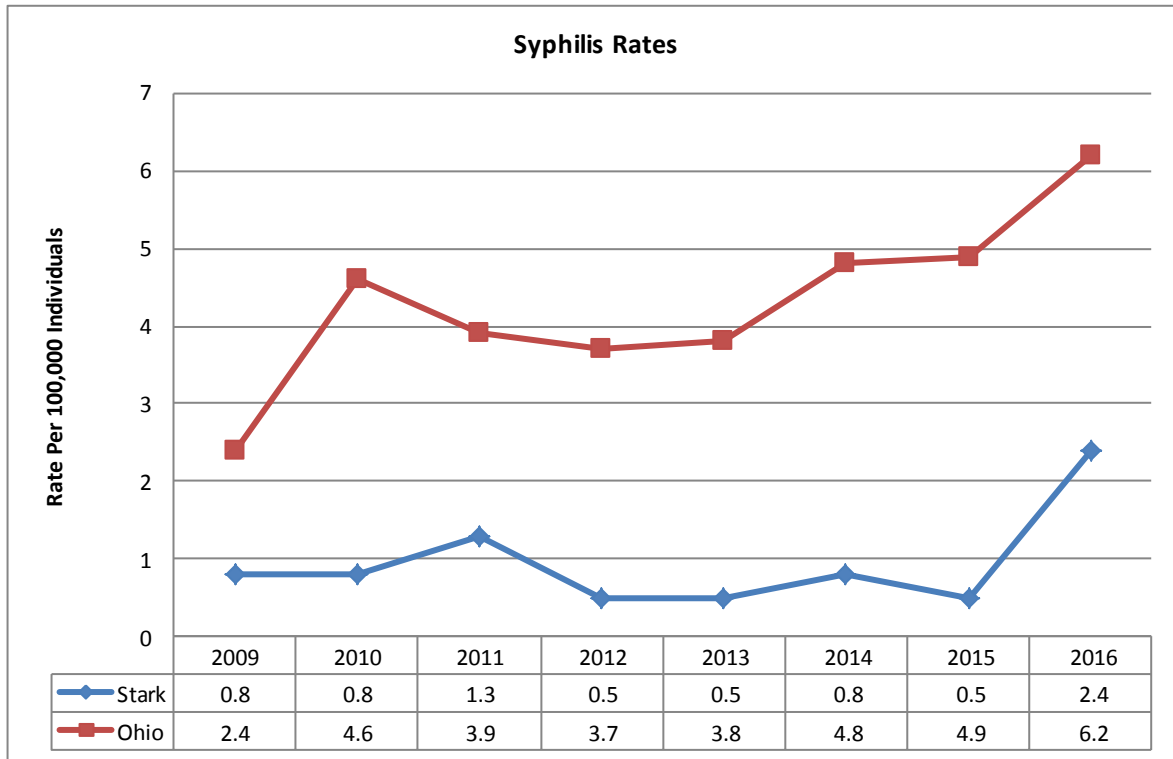
### Stark County Chlamydia Rate by Gender



**Source:**  
Ohio Department of Health - STD Surveillance Program

**Notes:**  
In this presentation, date of diagnosis is defined as the date the specimen was collected by the provider. Rates are shown per 100,000 persons and were calculated using census estimates for that year. Provisional data. Numbers subject to change when additional information is gained. Small numbers are unstable and should be interpreted with caution.

# Physical Health

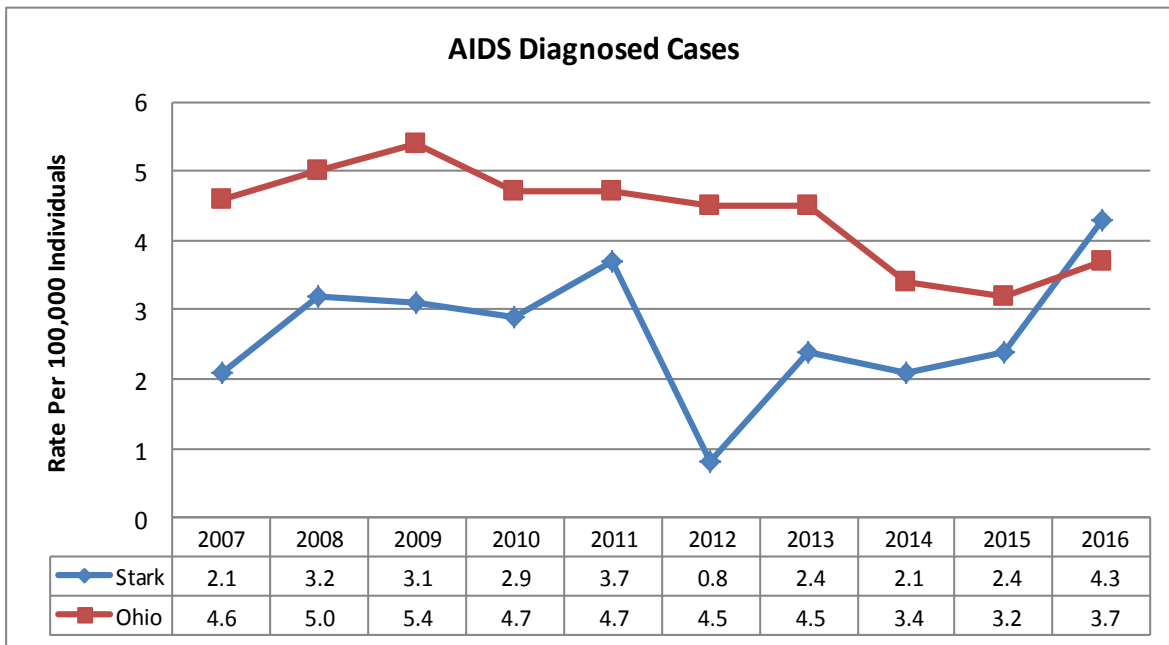
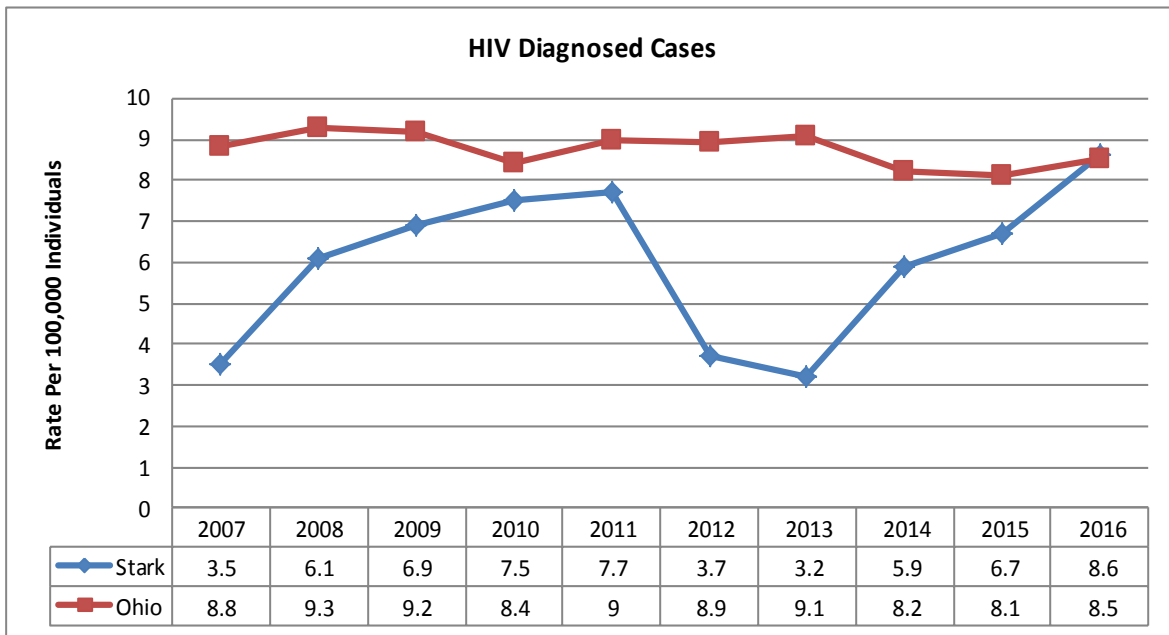


**Source:**  
Ohio Department of Health - STD Surveillance Program

**Caveat:**  
Syphilis diagnoses are not a good indicator of sexually transmitted diseases due to the small numbers of diagnoses. Small numbers are unstable and should be interpreted with caution.

**Notes:**  
Syphilis rate includes primary and secondary cases.  
Rates are shown per 100,000 persons and were calculated using census estimates for that year.  
Provisional data. Numbers subject to change when additional information is gained.

# Physical Health



**Source:**

Ohio Department of Health - HIV/AIDS Surveillance Program

**Notes:**

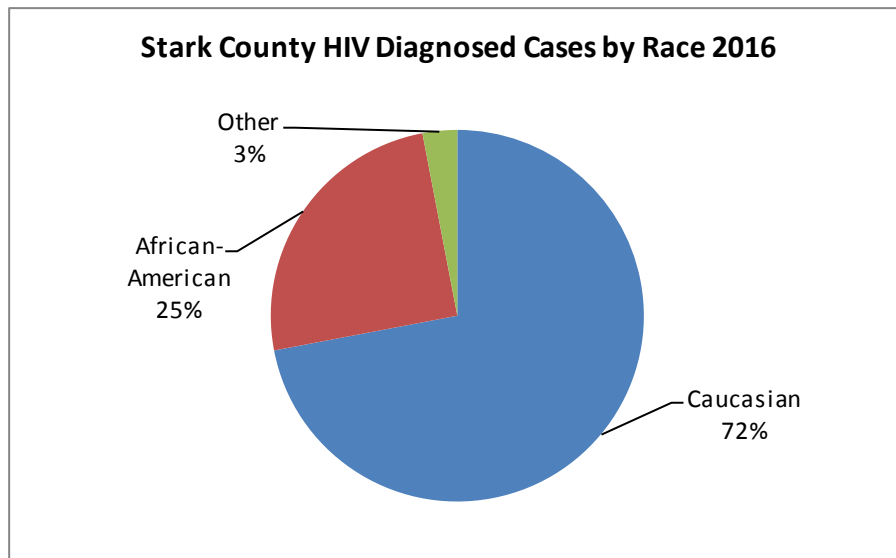
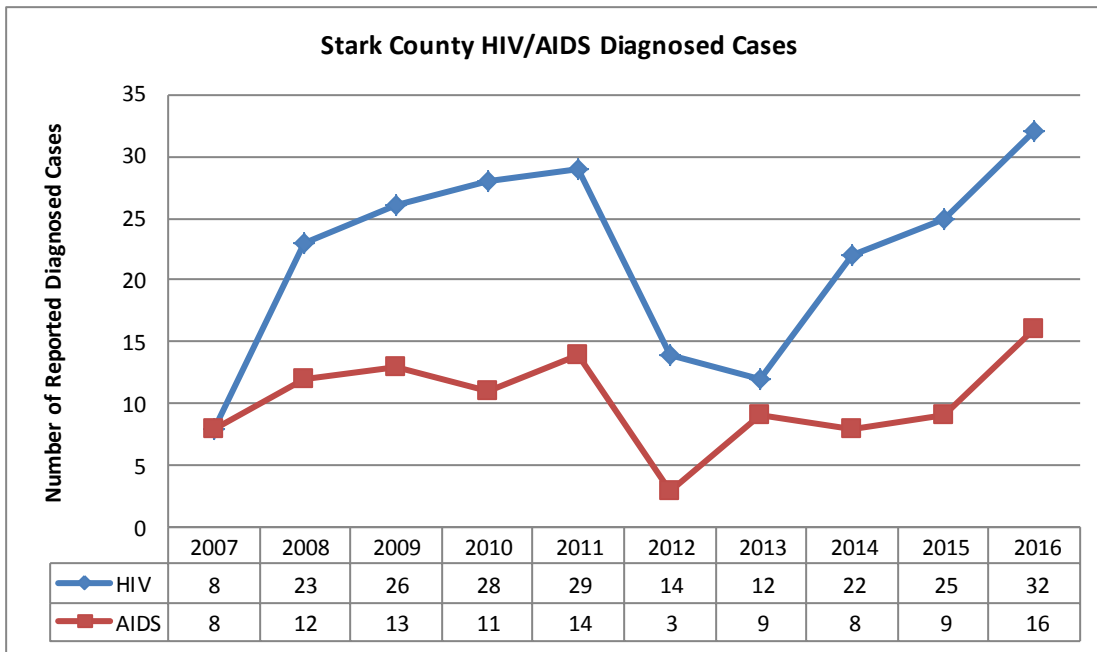
Diagnoses of HIV infection include persons with a diagnosis of HIV infection (not AIDS), a diagnosis of HIV infection and a later AIDS diagnosis and concurrent diagnoses of HIV infection and AIDS.

Diagnoses of HIV infection by year represent all reported cases diagnosed in each year.

AIDS diagnoses by year represent all reported AIDS cases diagnosed in each year.

Rate per 100,000 population. The rate is based on the U.S. Census Bureau's population estimates.

# Physical Health



**Source:**  
Ohio Department of Health - HIV/AIDS Surveillance Program

**Caveat:**

Native Americans and Asian/Pacific Islanders are not reported due to small population size.

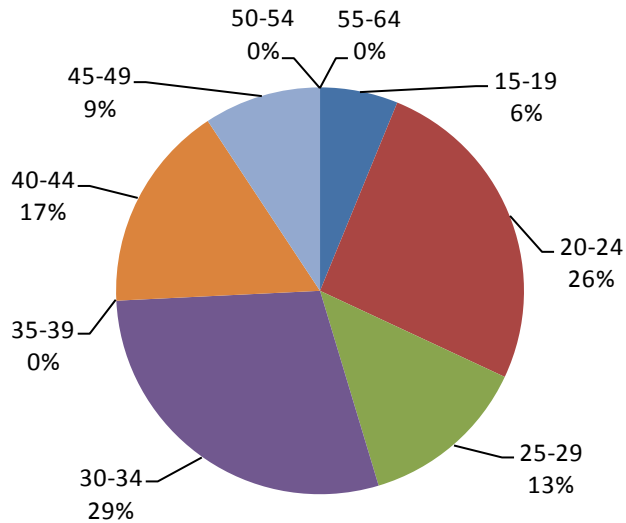
**Notes:**

Diagnoses of HIV infection include persons with a diagnosis of HIV infection (not AIDS), a diagnosis of HIV infection and a later AIDS diagnosis and concurrent diagnoses of HIV infection and AIDS.

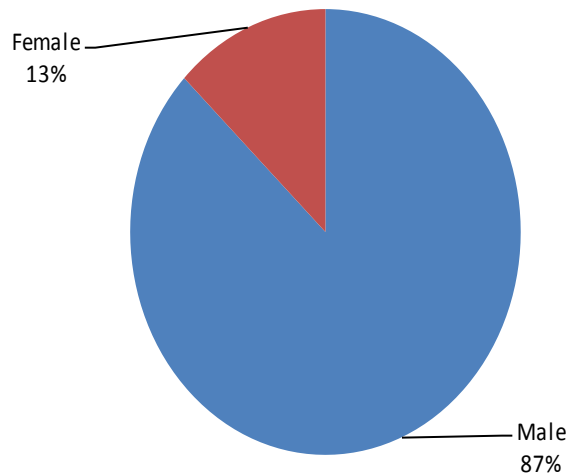
Diagnoses of HIV/AIDS by year represent all reported cases diagnosed in each year.

# Physical Health

**Stark County HIV Diagnosed Cases by Age 2016**



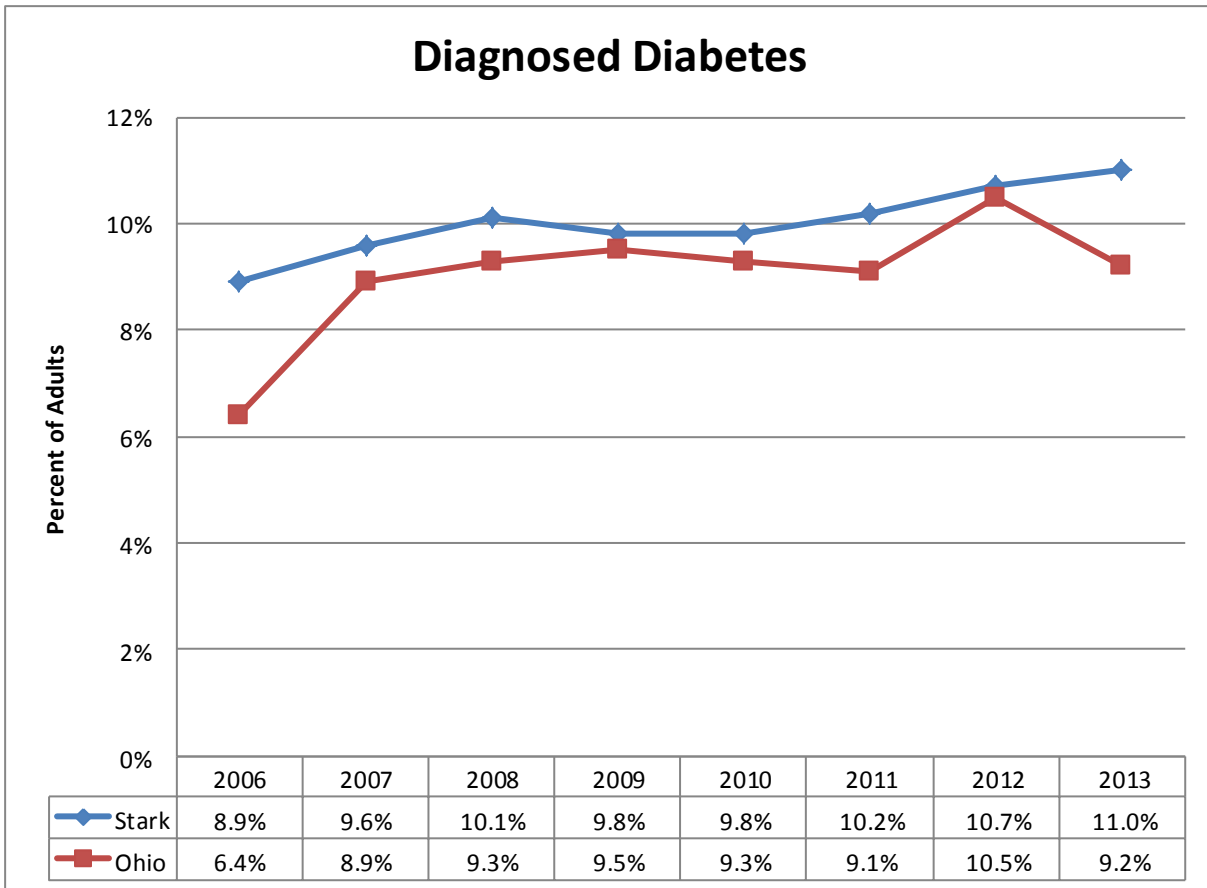
**Stark County HIV Diagnosed Cases by Gender 2016**



**Source:**  
**Ohio Department of Health - HIV/AIDS Surveillance Program**

**Notes:**  
Diagnoses of HIV infection include persons with a diagnosis of HIV infection (not AIDS), a diagnosis of HIV infection and a later AIDS diagnosis and concurrent diagnoses of HIV infection and AIDS.  
Diagnoses of HIV infection by year represent all reported cases diagnosed in each year.

# Physical Health



**Source:**

Centers for Disease Control and Prevention

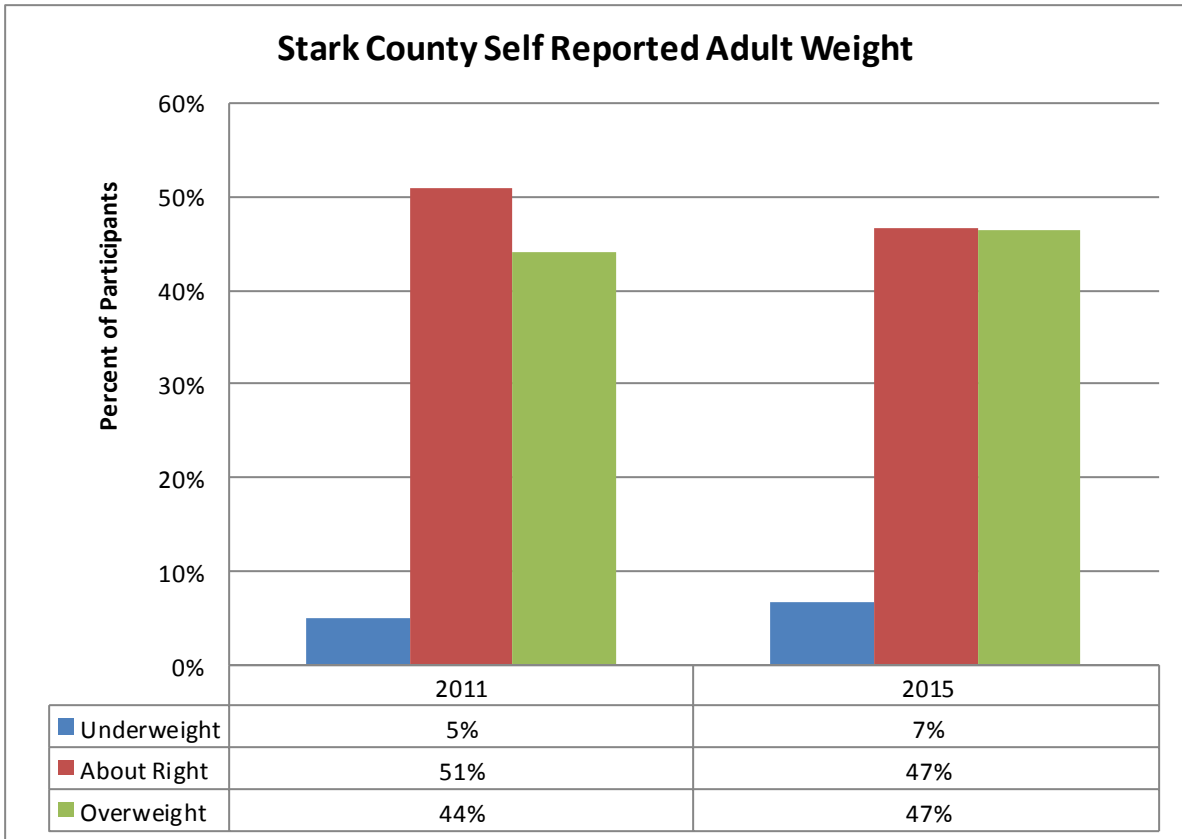
**Definition:**

Age-Adjusted Percentage - Artificial estimate that minimizes the effects of different age distributions and allows comparisons between different populations.

**Notes:**

Data computed by personnel of the CDC's Division of Diabetes Translation

# Physical Health



**Source:**

Center for Marketing and Opinion Research, L.L.C. - 2011, 2015 Stark Poll

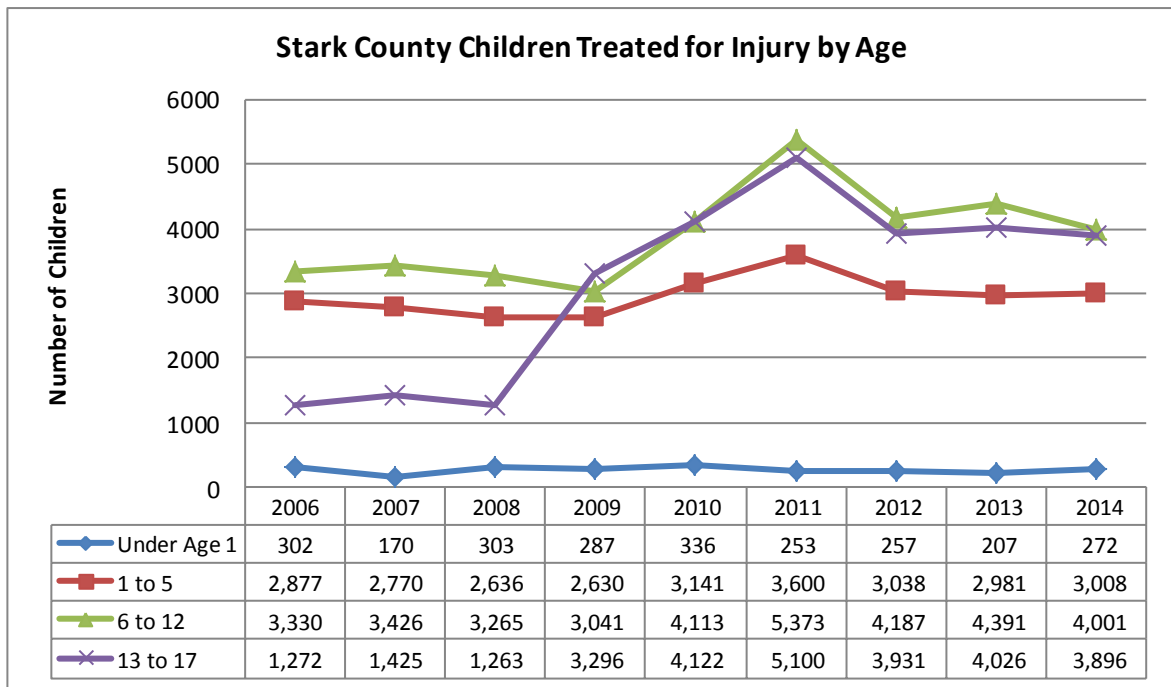
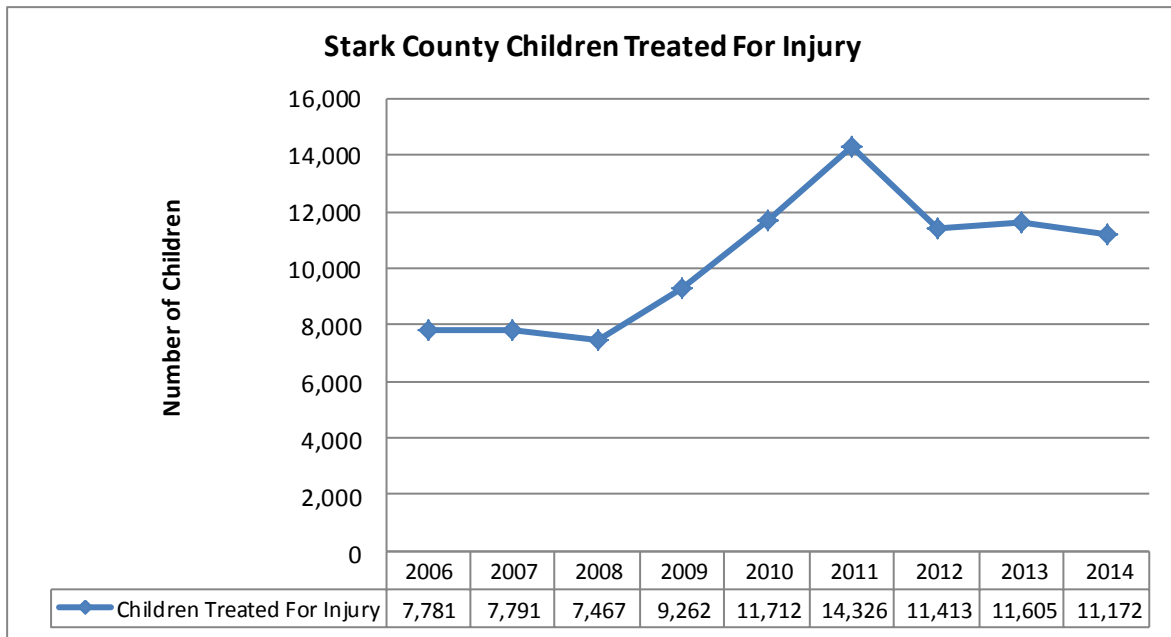
**Caveat:**

The Stark Poll is a statistically representative telephone survey of Stark County residents.

**Note:**

All data collected through the Stark Poll is self reported.

# Physical Health



**Source:**

Stark County Health Department, Stark County Child Injury Report: 2006-2013

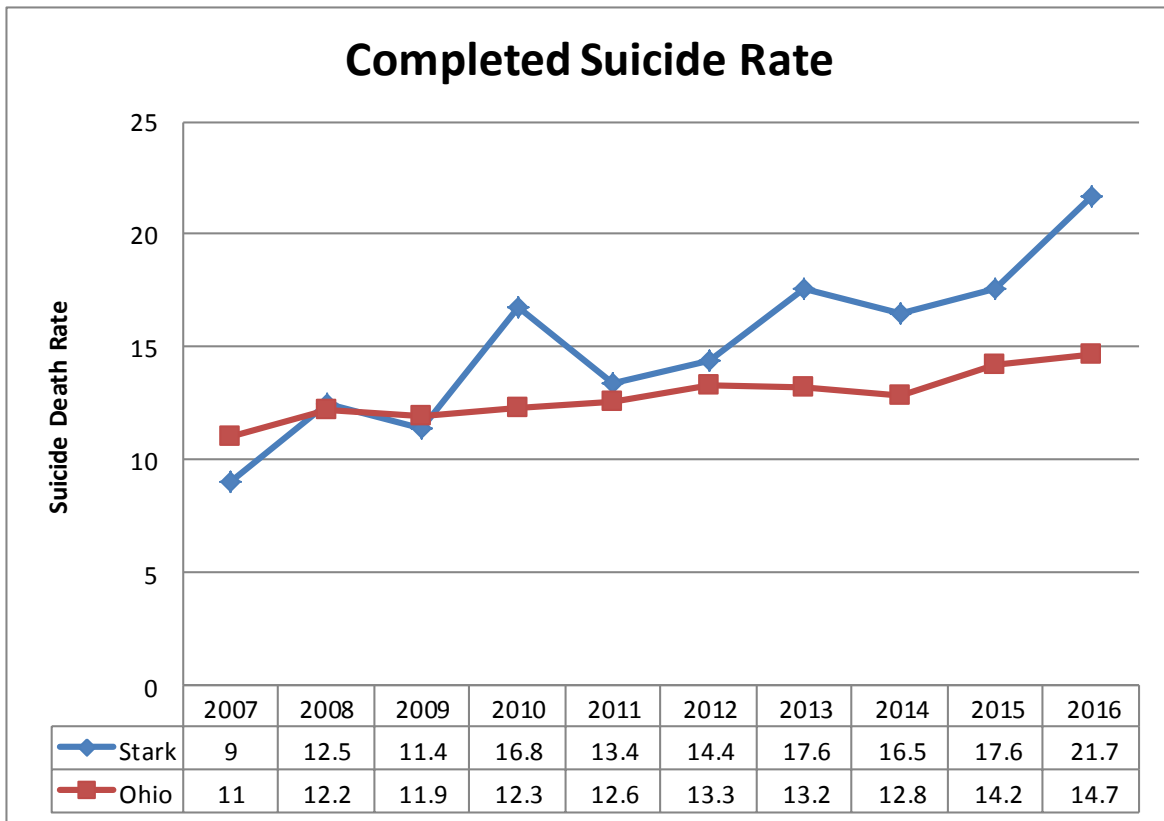
**Note:**

2002-2009 Reports did not include Immediate Care Facilities, only Hospitals.

2009 Stark County Child Injury Report - First year to include adolescents age 15-17.



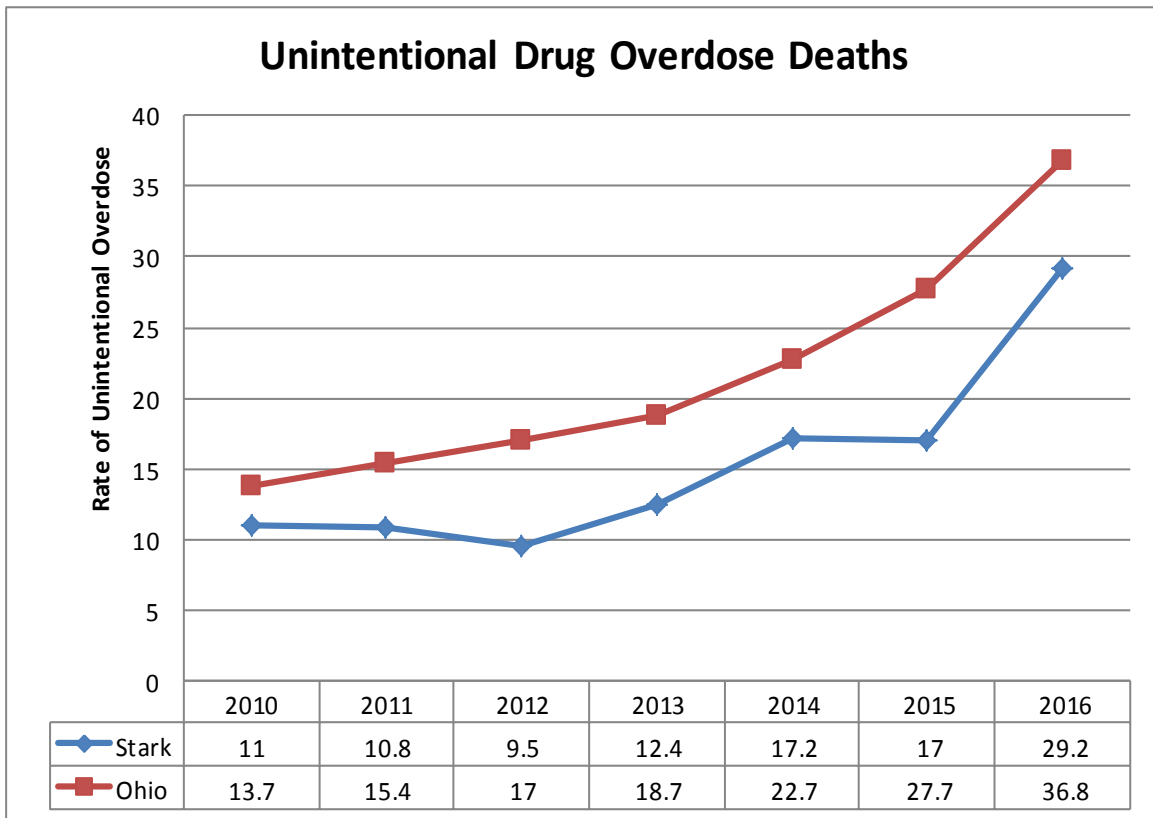
# Behavioral Health



**Source:**  
Ohio Department of Health - Ohio Public Health Data Warehouse

**Caveat:**  
The Ohio Department of Health specifically disclaims responsibility for any analysis, interpretations or conclusions.

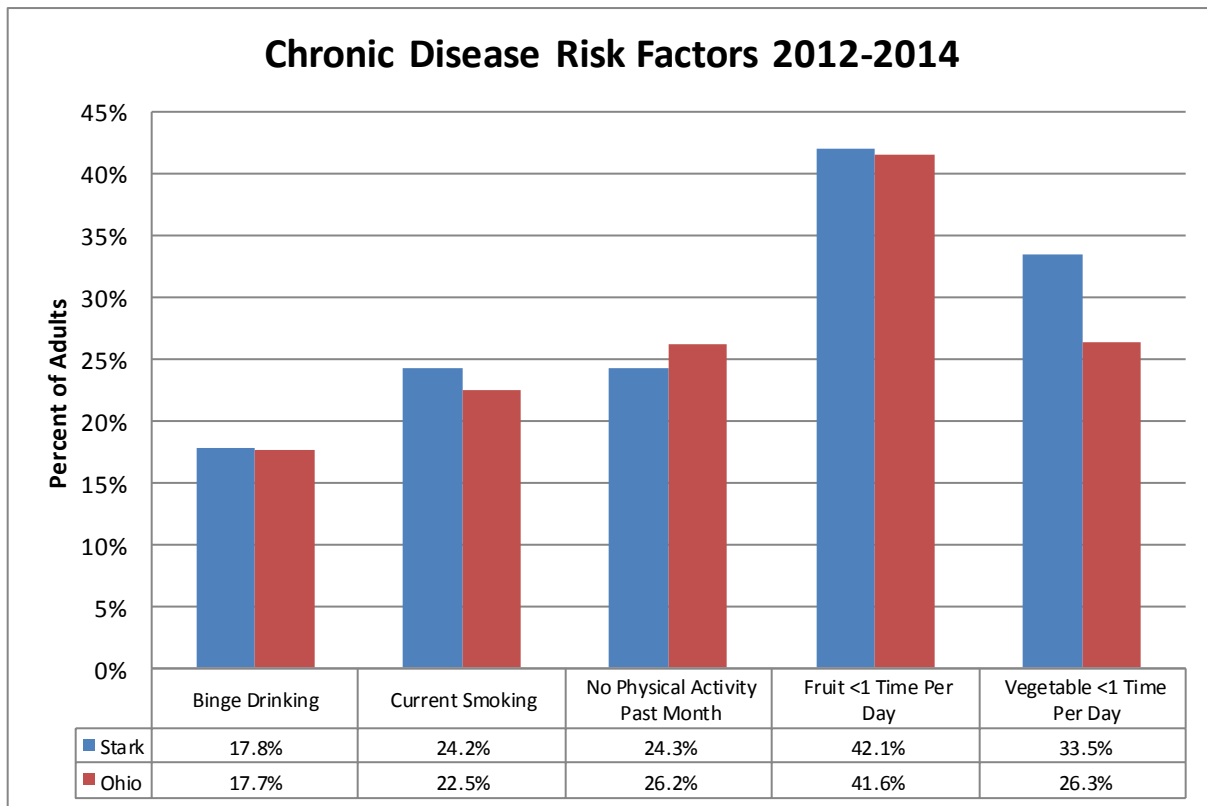
# Behavioral Health



**Source:**  
Ohio Department of Health, Ohio Public Health Data Warehouse

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# Behavioral Health



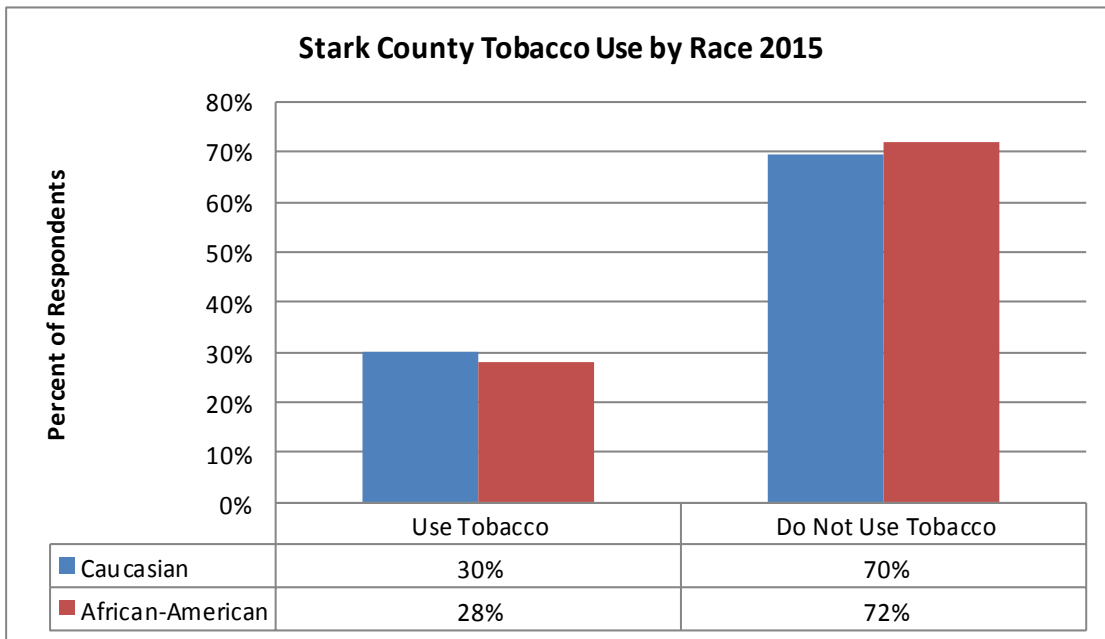
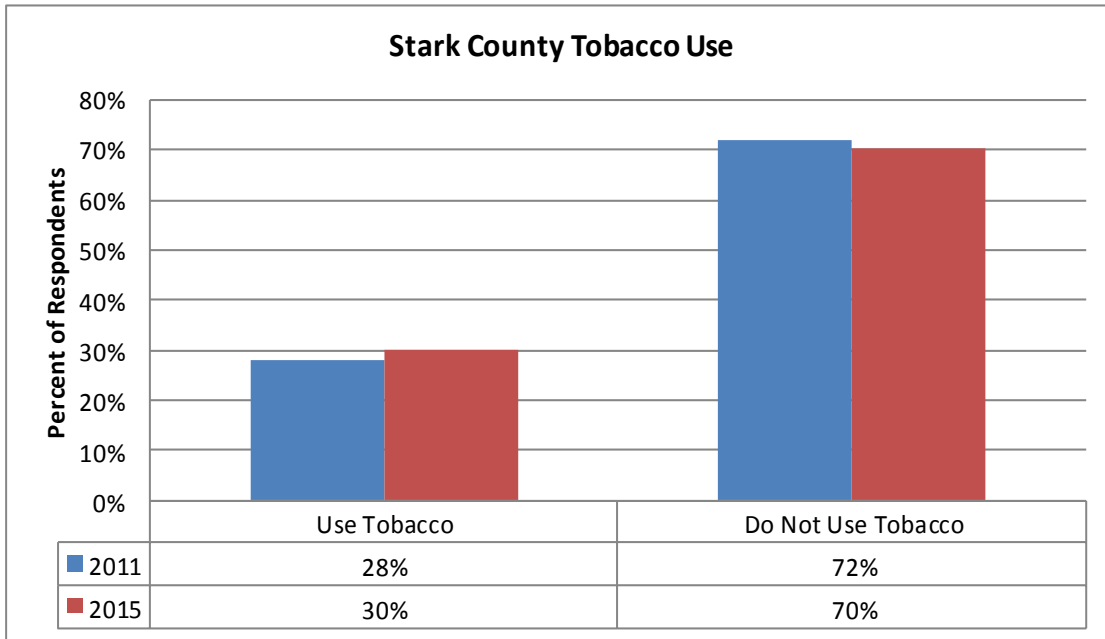
**Source:**

Ohio Behavioral Risk Factor Surveillance System, Chronic Disease and Behavioral Epidemiology, Center for Public Health Statistics and Informatics, Ohio Department of Health

**Note:**

Question regarding fruit/vegetable <1 time per day was only collected in 2013.

# Behavioral Health

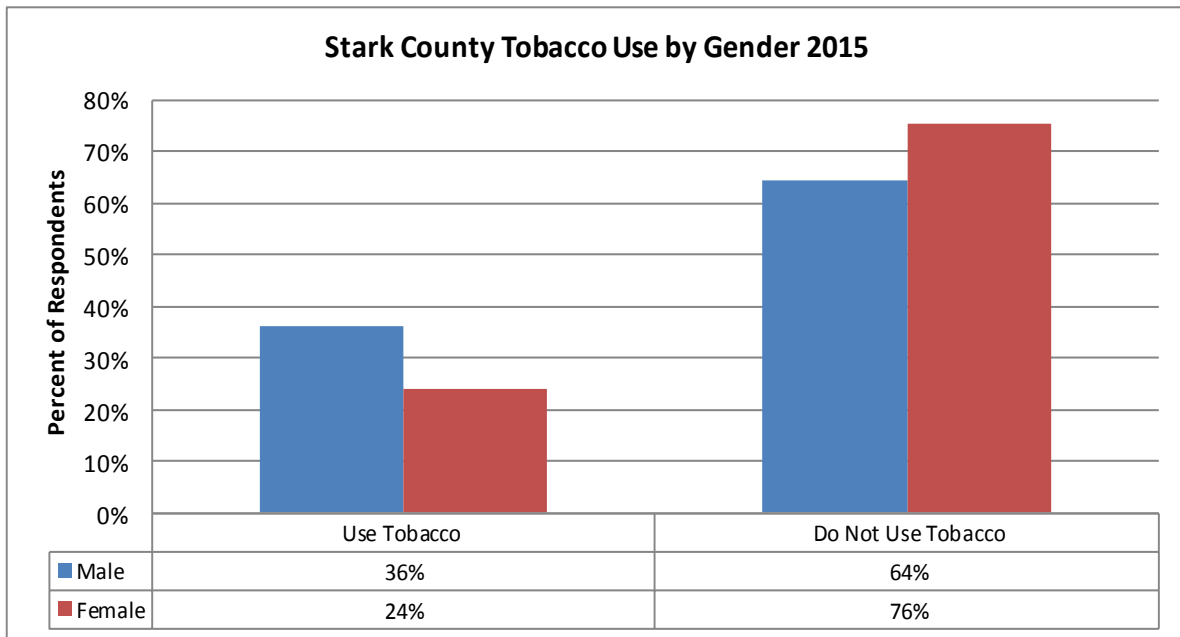
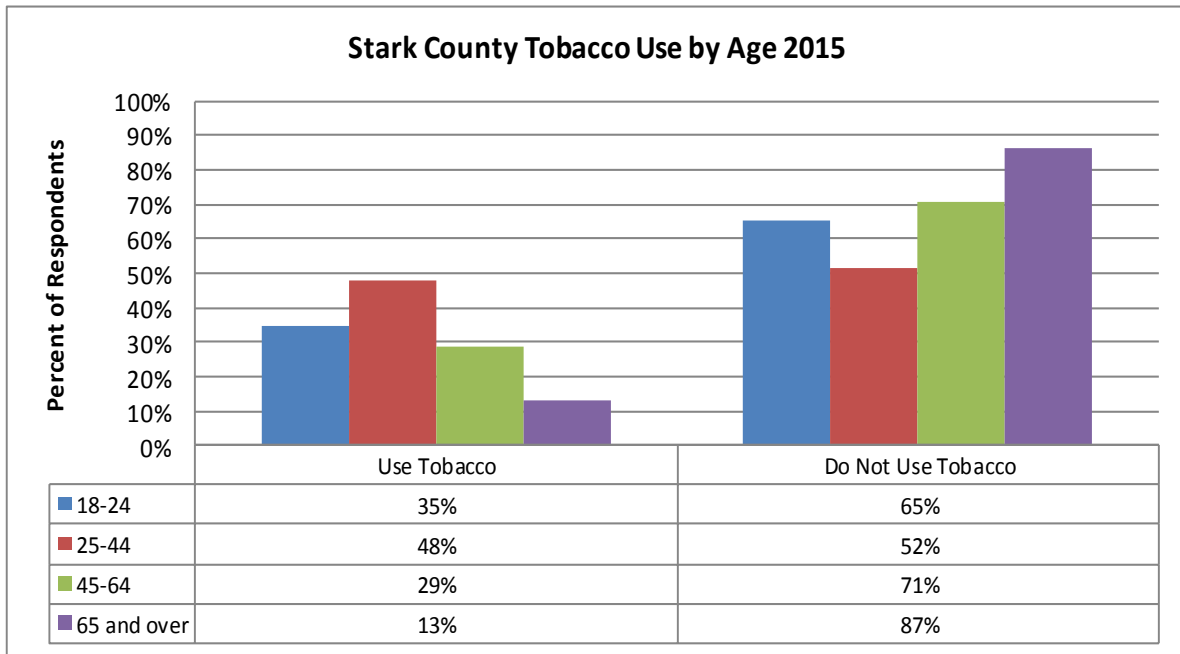


**Source:**  
Center for Marketing and Opinion Research, L.L.C. - 2011, 2015 Stark Poll

**Caveat:**  
The Stark Poll is a statistically representative telephone survey of Stark County residents.

**Note:**  
Tobacco use includes cigarettes and other tobacco products.

# Behavioral Health



**Source:**

Center for Marketing and Opinion Research, L.L.C. - 2015 Stark Poll

**Caveat:**

The Stark Poll is a statistically representative telephone survey of Stark County residents.

**Note:**

Tobacco use includes cigarettes and other tobacco products.

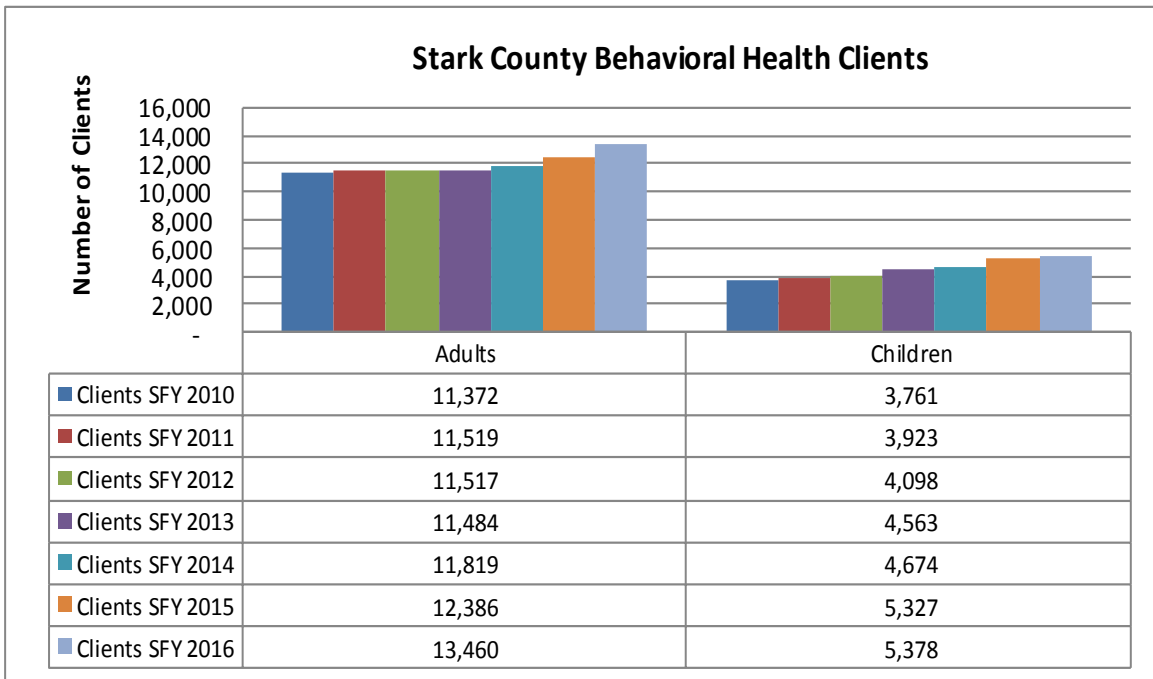
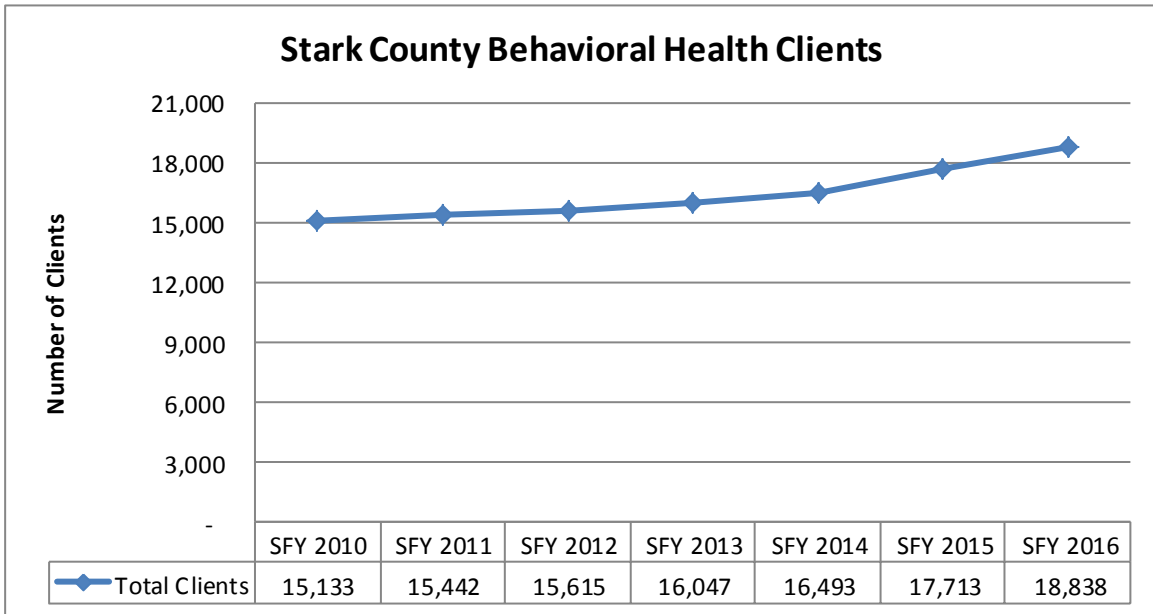
# Behavioral Health

<b>Top Ten Diagnostic Groups SFY 2016</b>	<b>Adults</b>
Depressive Disorders	3,618
Bipolar Disorders	2,632
Anxiety Disorders	2,265
Alcohol Use Disorders	1,586
Opioid Use Disorders	1,577
Schizophrenia/Other Psychotic Disorders	1,253
Post-Traumatic Stress Disorders	1,174
Adjustment Disorders	979
Cannabis Use Disorders	688
V Codes	609
<b>Total</b>	<b>16,381</b>

<b>Top Ten Diagnostic Groups SFY 2016</b>	<b>Children</b>
Adjustment Disorders	2,094
Conduct Disorders	1,281
Attention-Deficit/Disruptive Behavior	1,144
Anxiety Disorders	1,050
Depressive Disorders	888
Post-Traumatic Stress Disorders	612
Bipolar Disorders	424
Cannabis Use Disorders	228
Pervasive Developmental Disorders	216
Personality Disorders	138
<b>Total</b>	<b>8,075</b>

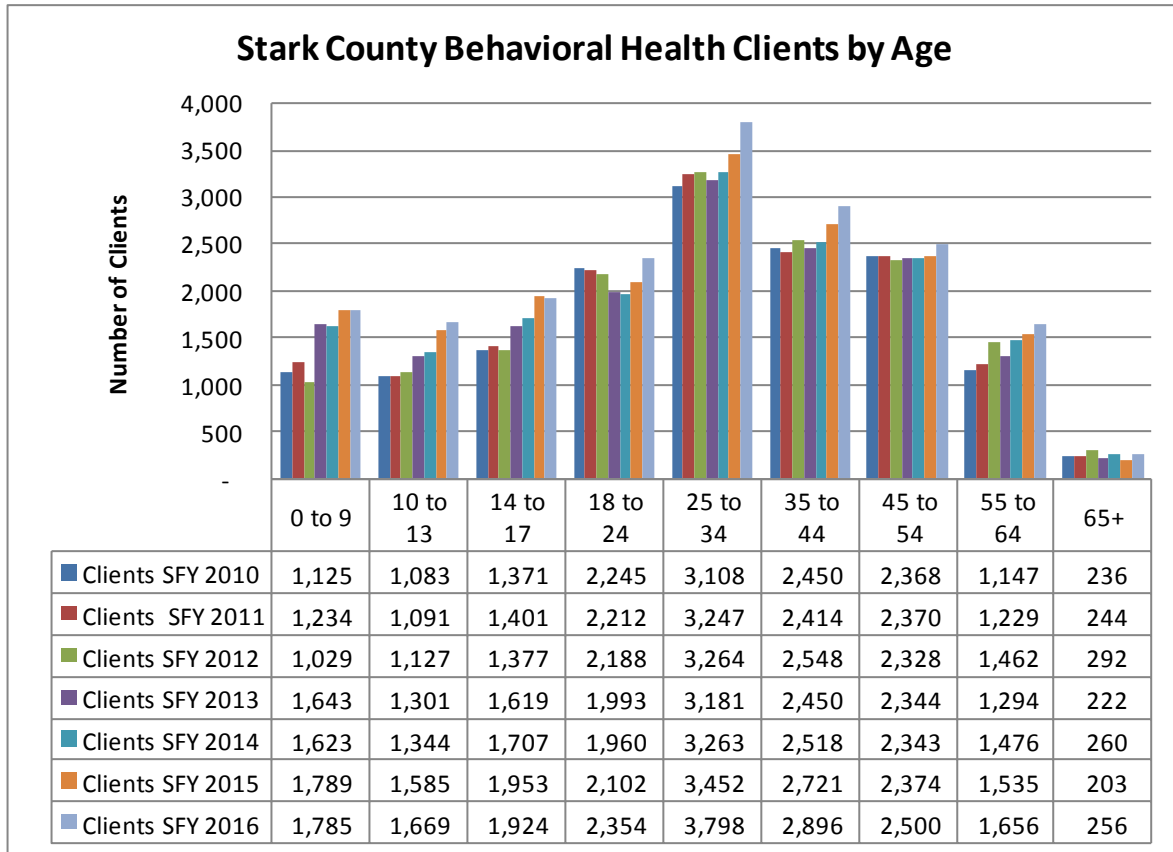
**Source:**  
**Mental Health and Recovery Board of Stark County - Heartland East Reporting Services**

# Behavioral Health



**Source:**  
 Mental Health and Recovery Board of Stark County - Heartland East Reporting Services  
**Definition:**  
 Behavioral health includes mental health, substance abuse treatment and prevention services.  
**Caveat:**  
 Native Americans and Asian/Pacific Islander are not reported due to small population size.  
**Note:**  
 State Fiscal Year (SFY) July 1st through June 30th.

# Behavioral Health



**Source:**

Mental Health and Recovery Board of Stark County - Heartland East Reporting Services

**Definition:**

Behavioral health includes mental health, substance abuse treatment and prevention services.

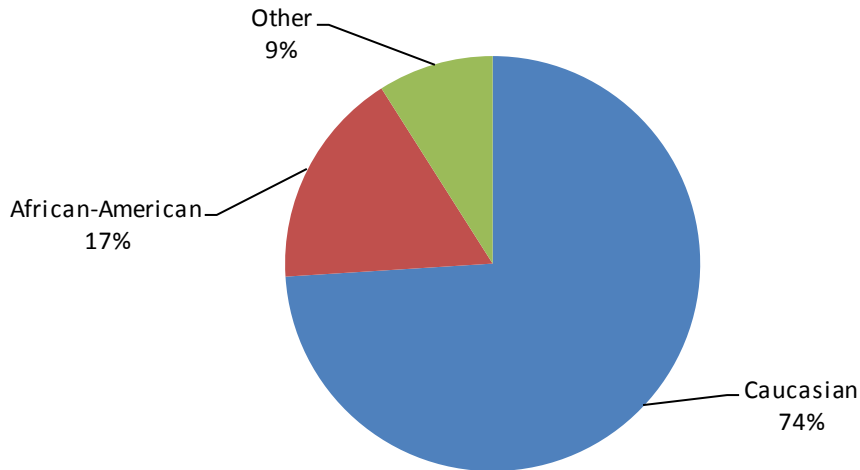
**Note:**

State Fiscal Year (SFY) July 1st through June 30th.

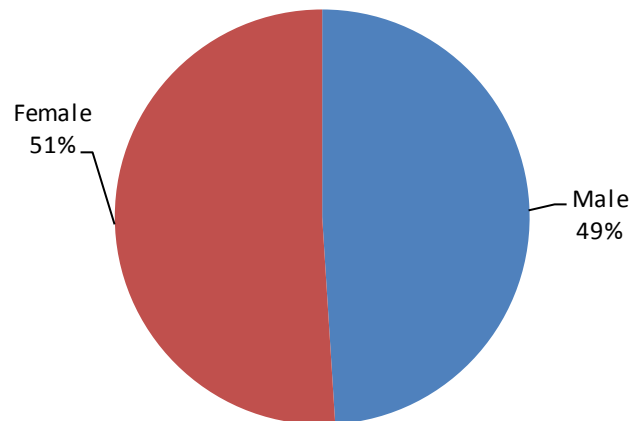


# Behavioral Health

**Stark County Behavioral Health Clients by Race 2016**



**Stark County Behavioral Health Clients by Gender 2016**



**Source:**

Mental Health and Recovery Board of Stark County - Heartland East Reporting Services

**Definition:**

Behavioral health includes mental health, substance abuse treatment and prevention services.

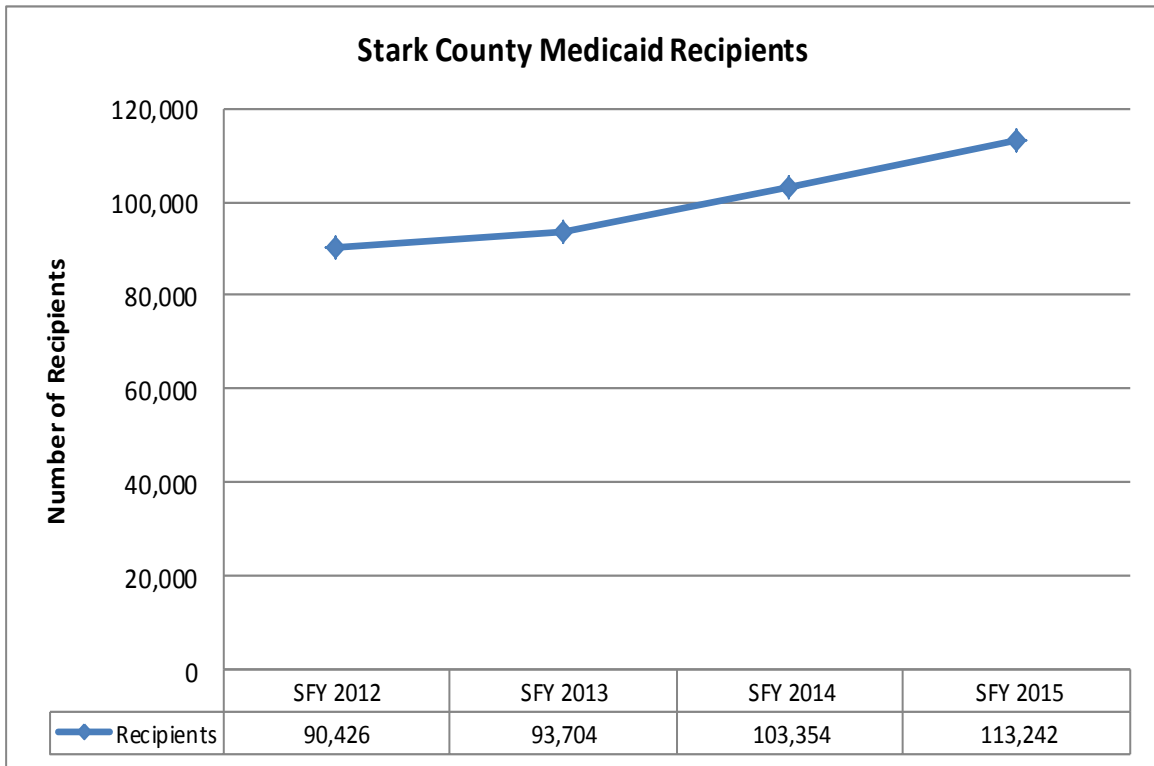
**Caveat:**

Native Americans and Asian/Pacific Islander are not reported due to small population size.

**Note:**

State Fiscal Year (SFY) July 1st through June 30th.

# Access to HealthCare



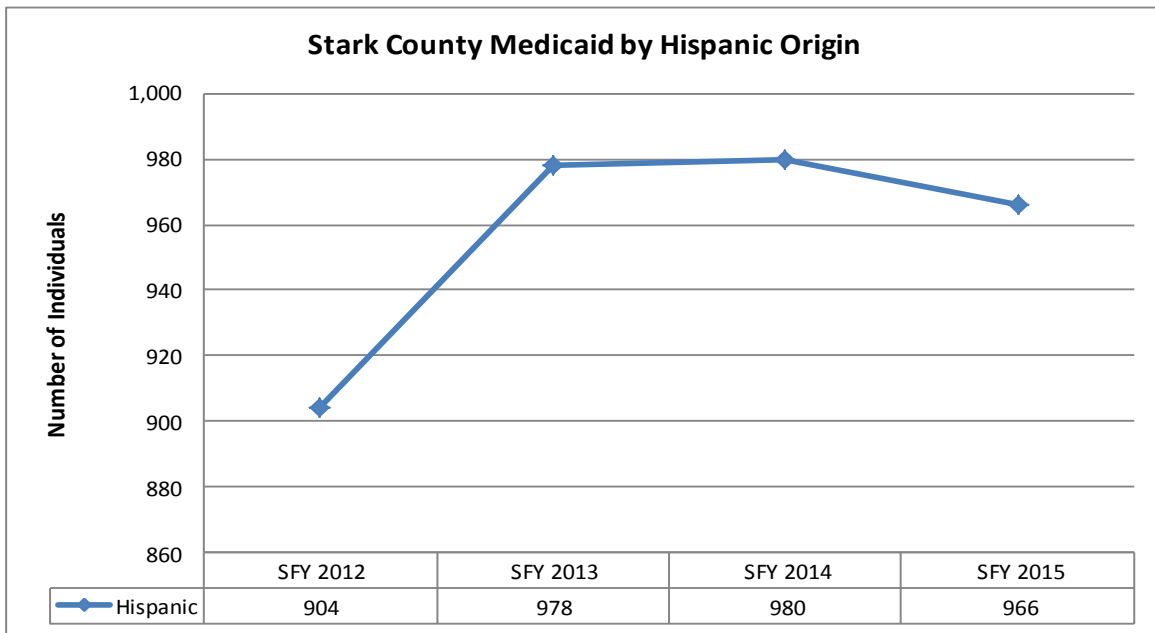
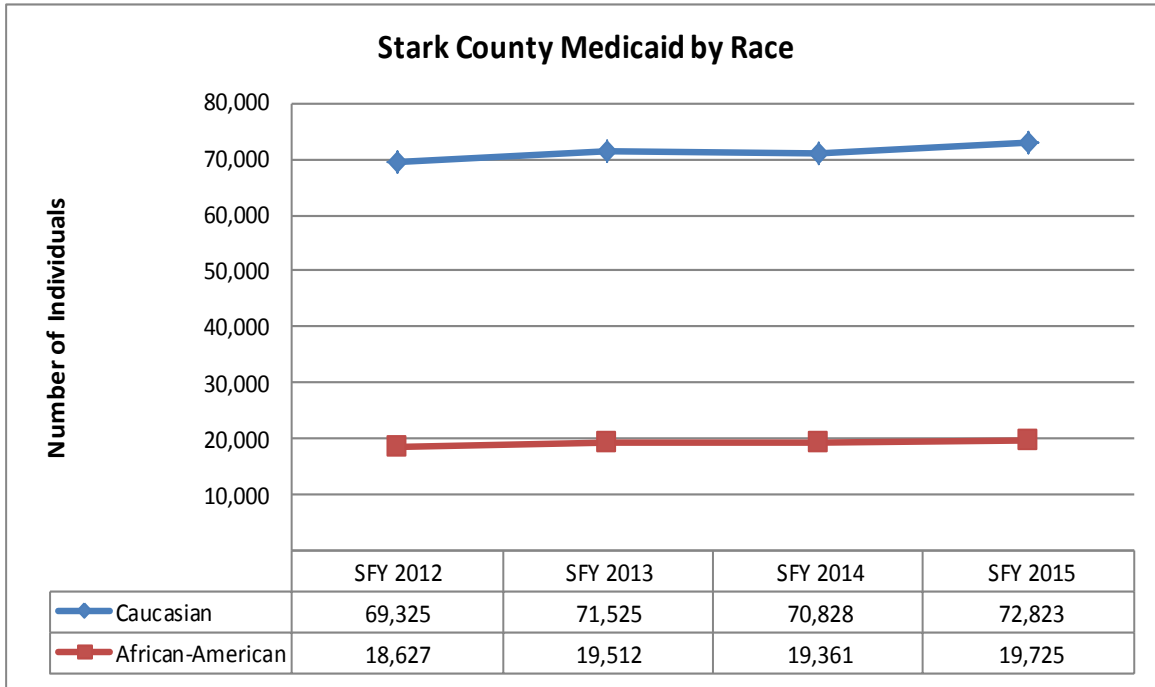
**Source:**

Ohio Department of Medicaid - QDSS (Quality Decision Support System)

**Definition:**

State Fiscal Year (SFY) - The fiscal year for the State of Ohio is July 1st through June 30th.

# Access to HealthCare

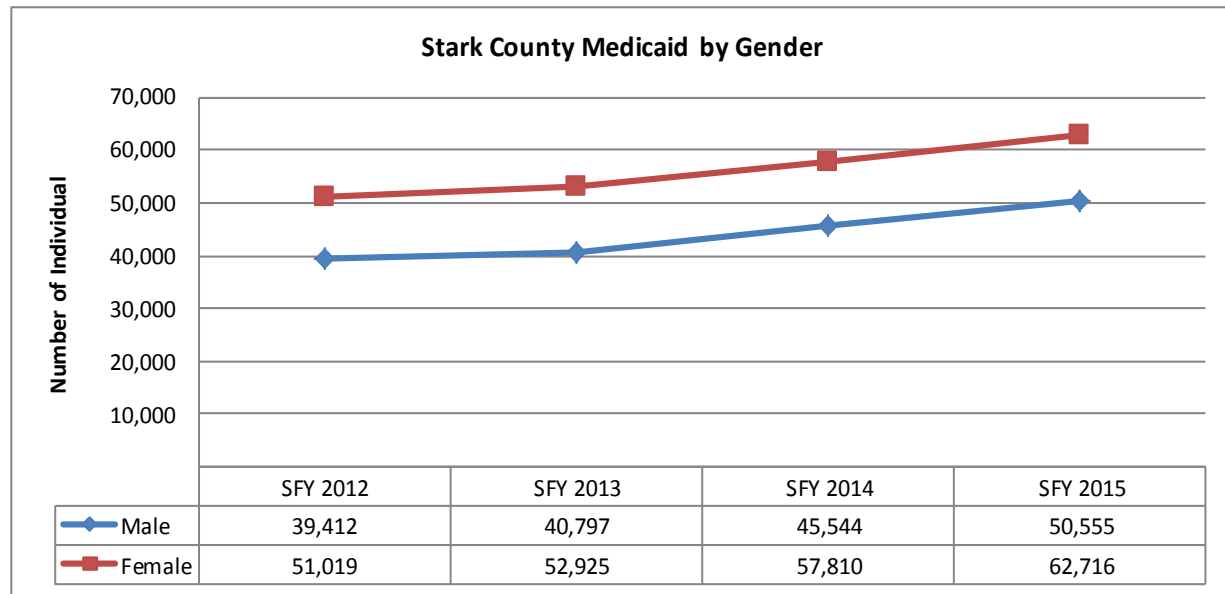
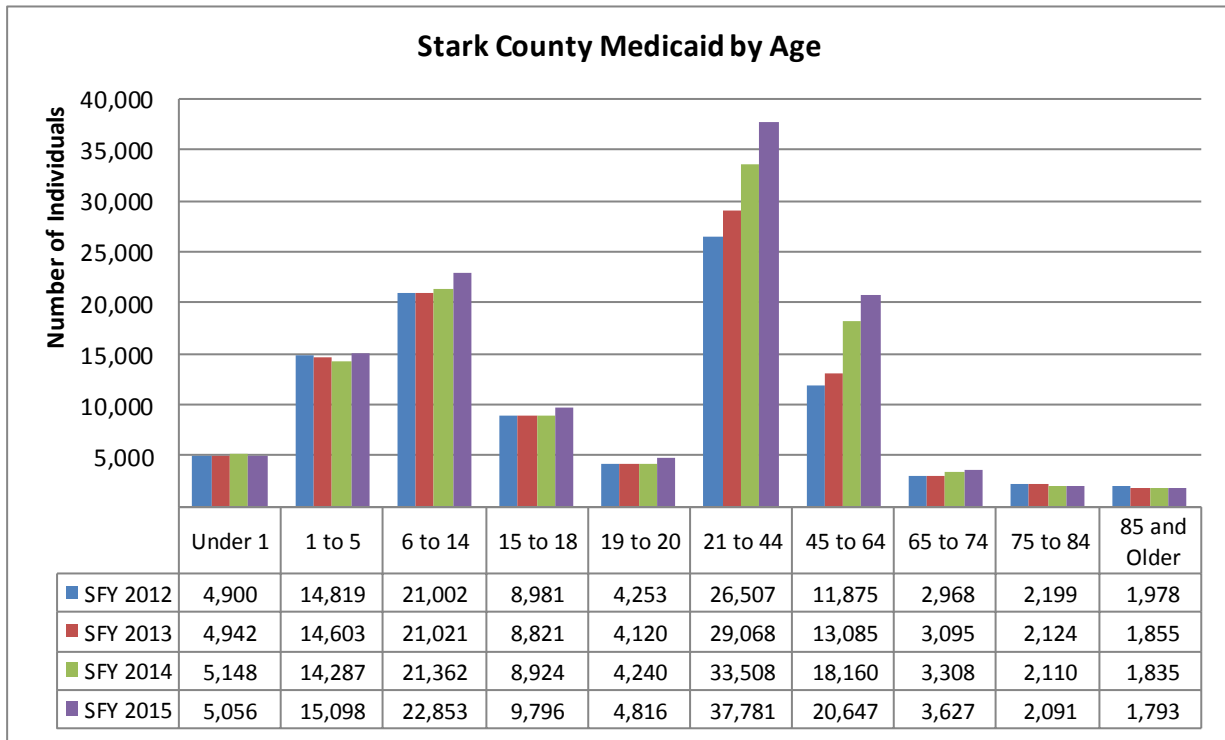


**Source:**  
Ohio Department of Medicaid - QDSS (Quality Decision Support System)

**Definition:**  
State Fiscal Year (SFY) - The fiscal year for the State of Ohio is July 1st through June 30th.

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# Access to HealthCare



**Source:**

Ohio Department of Medicaid - QDSS (Quality Decision Support System)

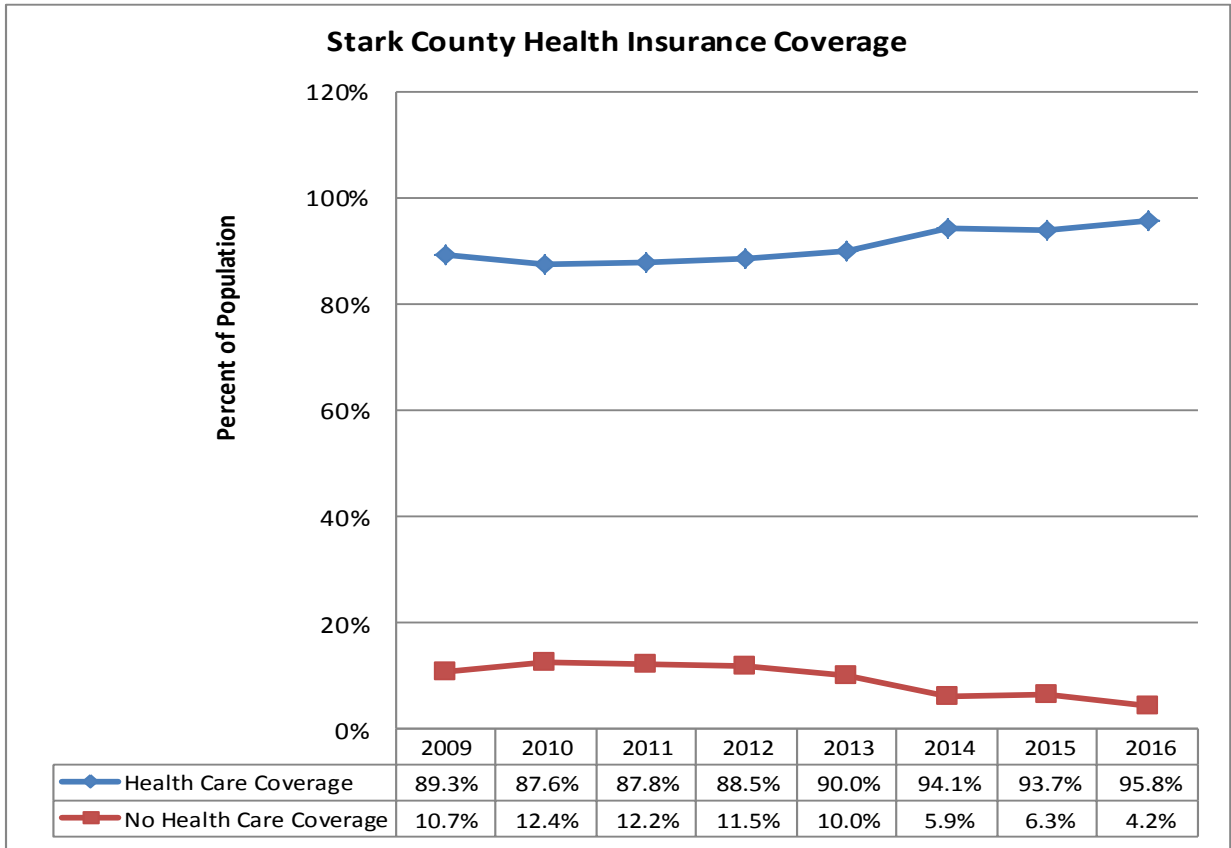
**Definition:**

State Fiscal Year (SFY) - The fiscal year for the State of Ohio is July 1st through June 30th.

**Caveat:**

The Age in Years is a calculated field determined by the Date of Birth and Eligibility Start Date for the record.

# Access to HealthCare



**Source:**

U.S. Census Bureau - American Community Survey

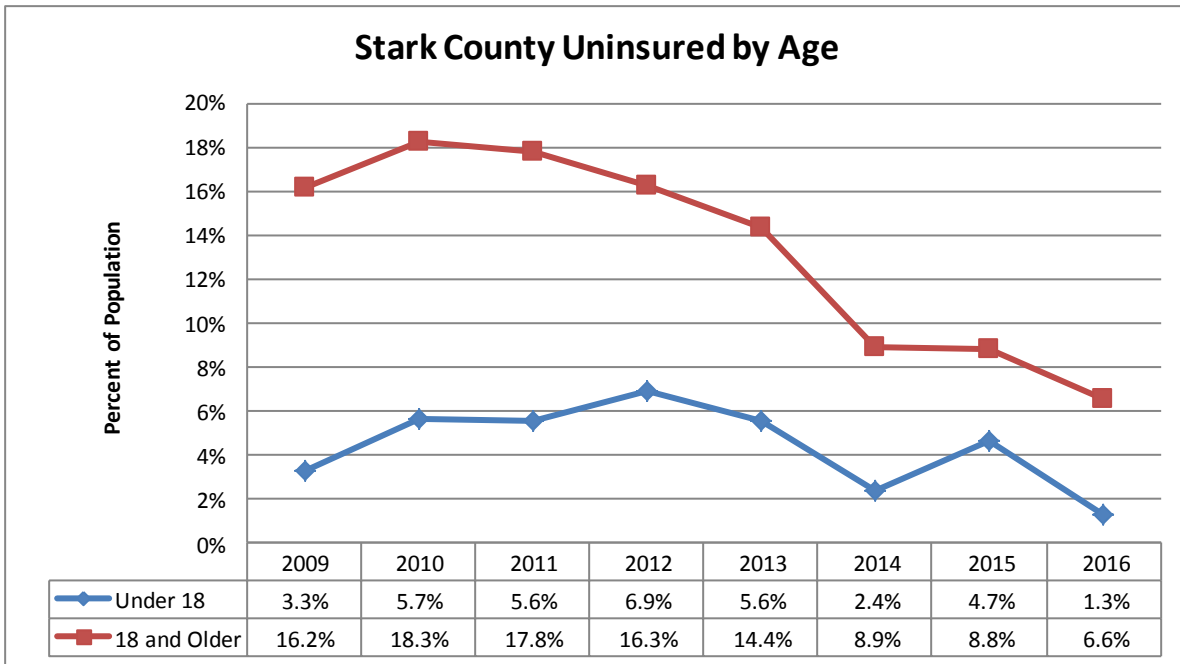
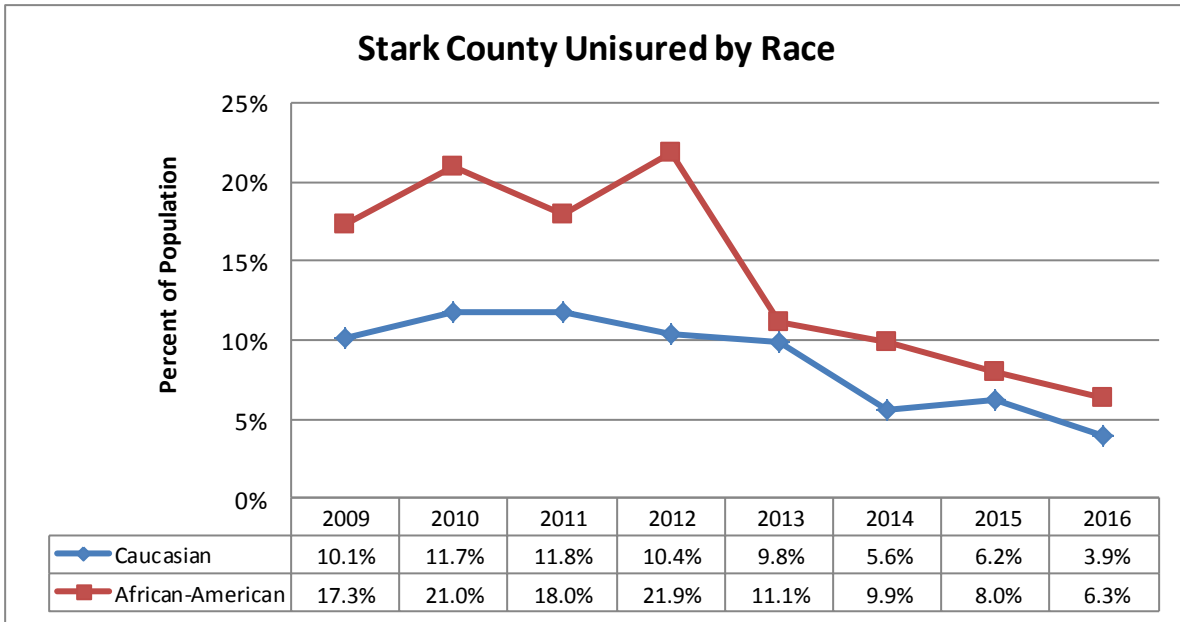
**Caveat:**

Data are based on a sample and are subject to sampling variability.

**Note:**

Although the ACS produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates the official estimates of the population for the nation, states, counties, cities and towns and estimates of housing units for states and counties.

# Access to HealthCare



**Source:**

U.S. Census Bureau—American Community Survey

**Caveat:**

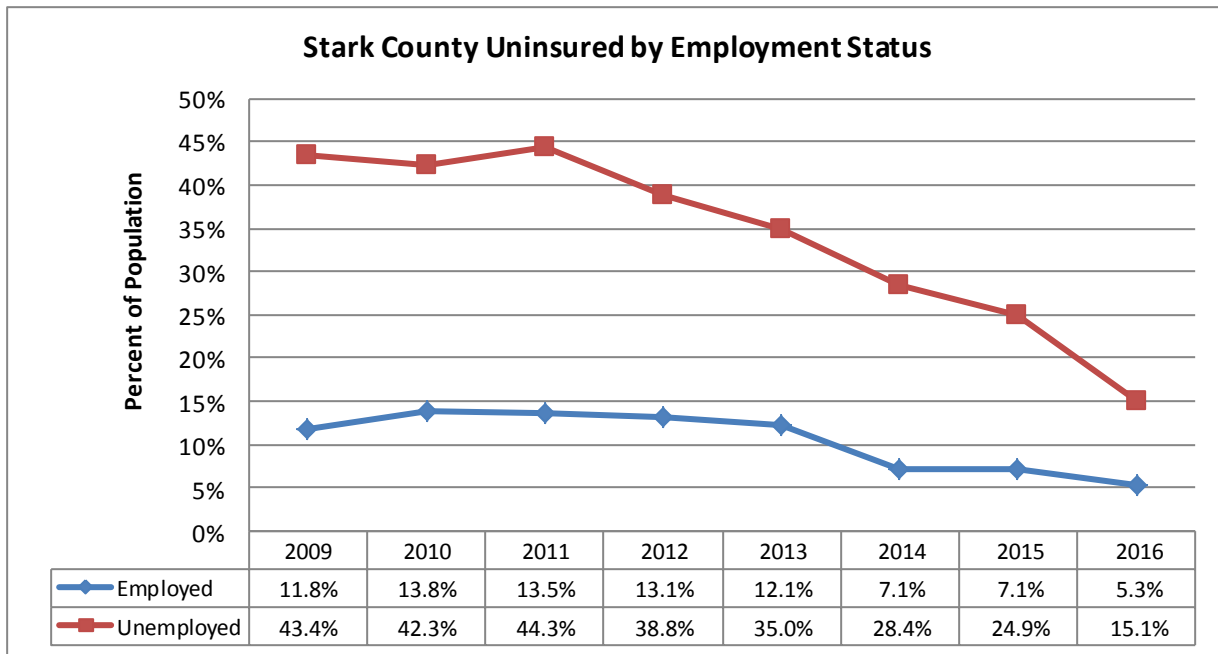
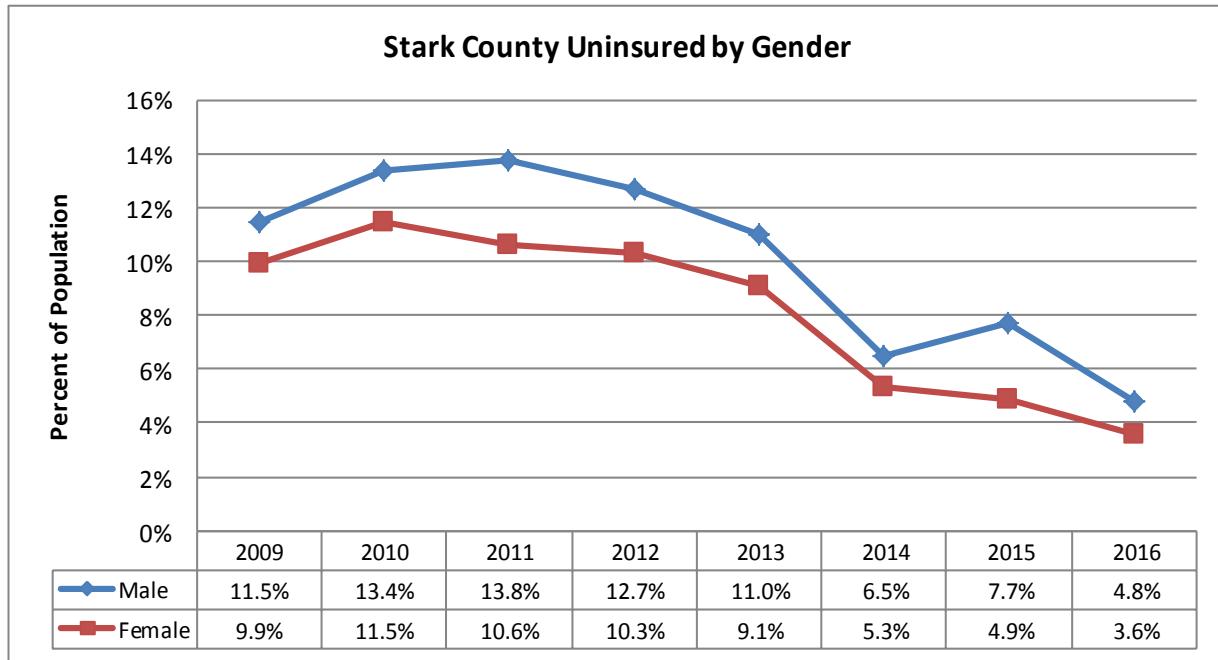
Native Americans and Asian/Pacific Islanders are not reported due to small population size.

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# Access to HealthCare



**Source:**

U.S. Census Bureau—American Community Survey

**Caveat:**

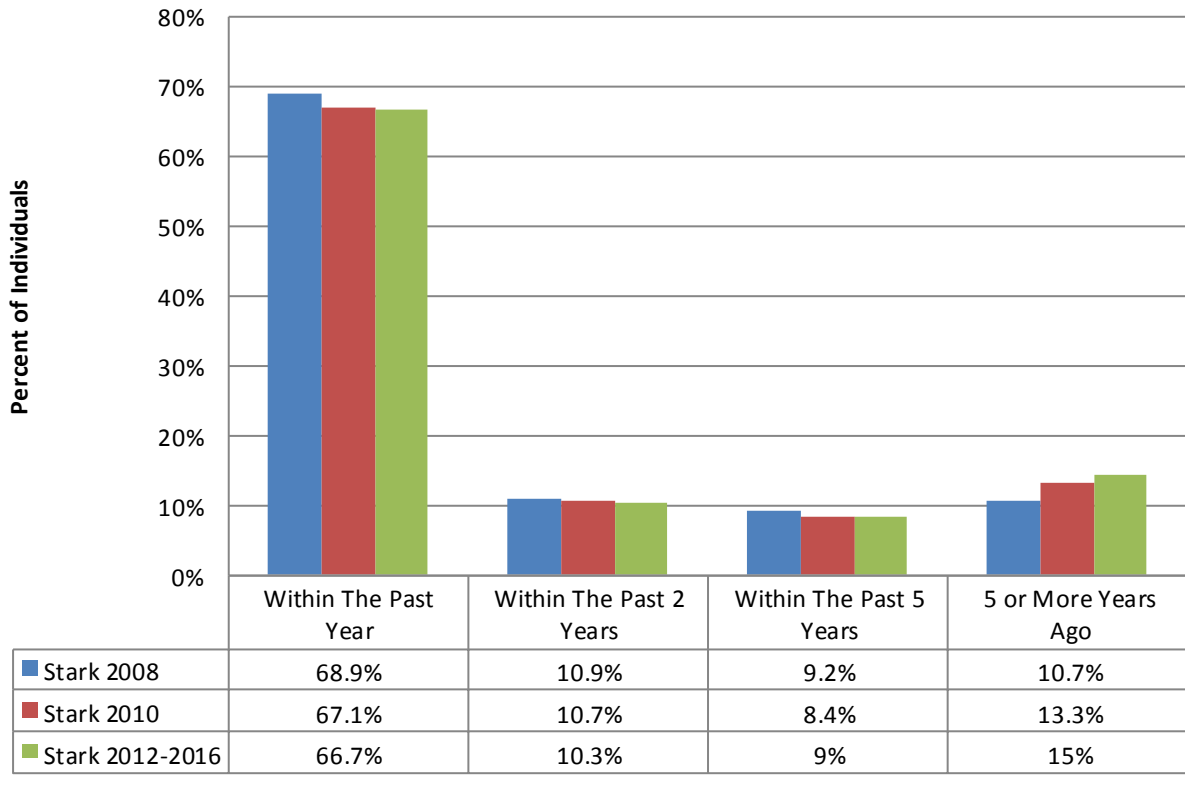
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# Access to HealthCare

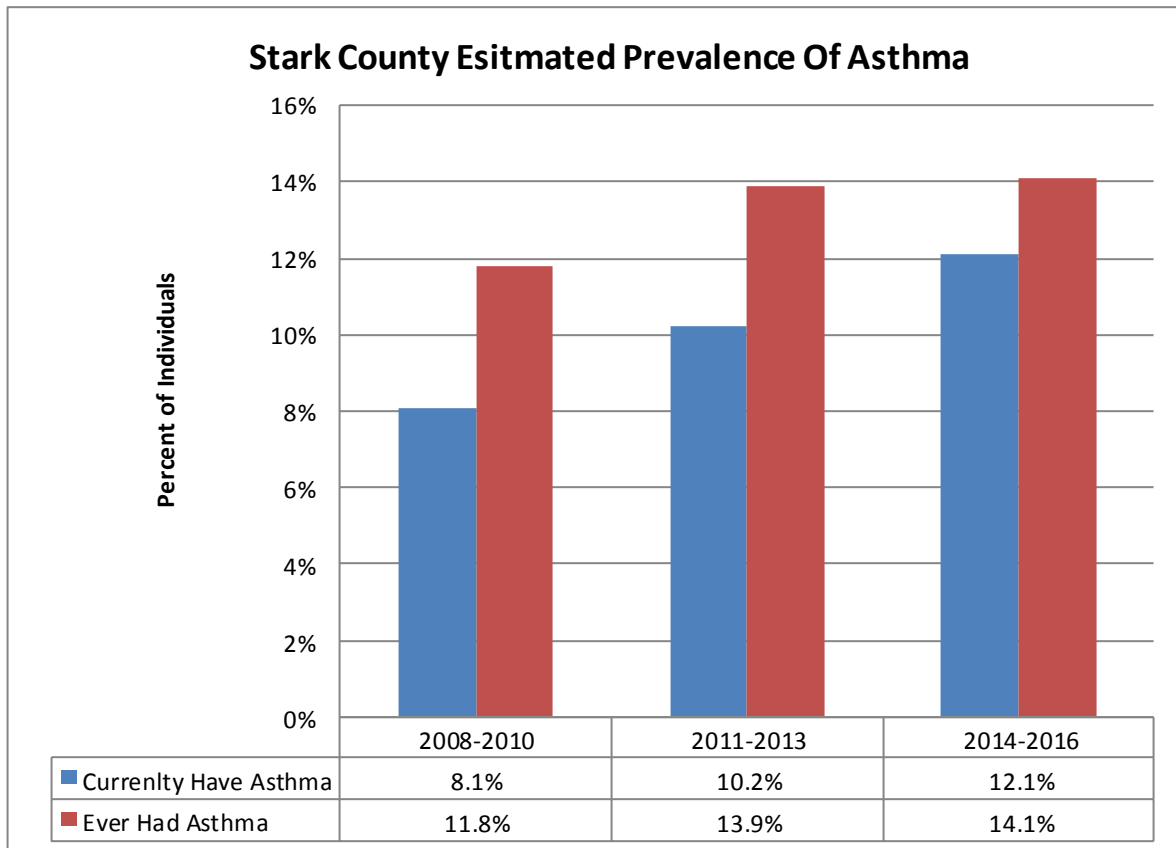
## Stark County Oral Health Last Visited Dentist/Dental Clinic



Source:  
Ohio Behavioral Risk Factor Surveillance System, Chronic Disease and Behavioral Epidemiology, Center for Public Health Statistics and Informatics, ODH



# Environmental Health

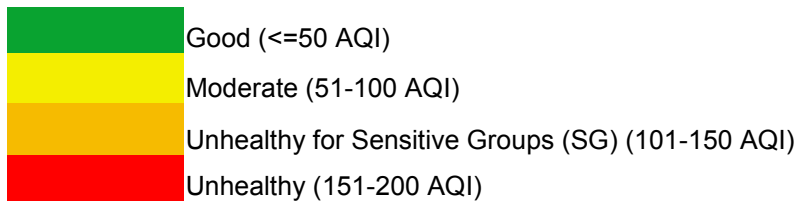
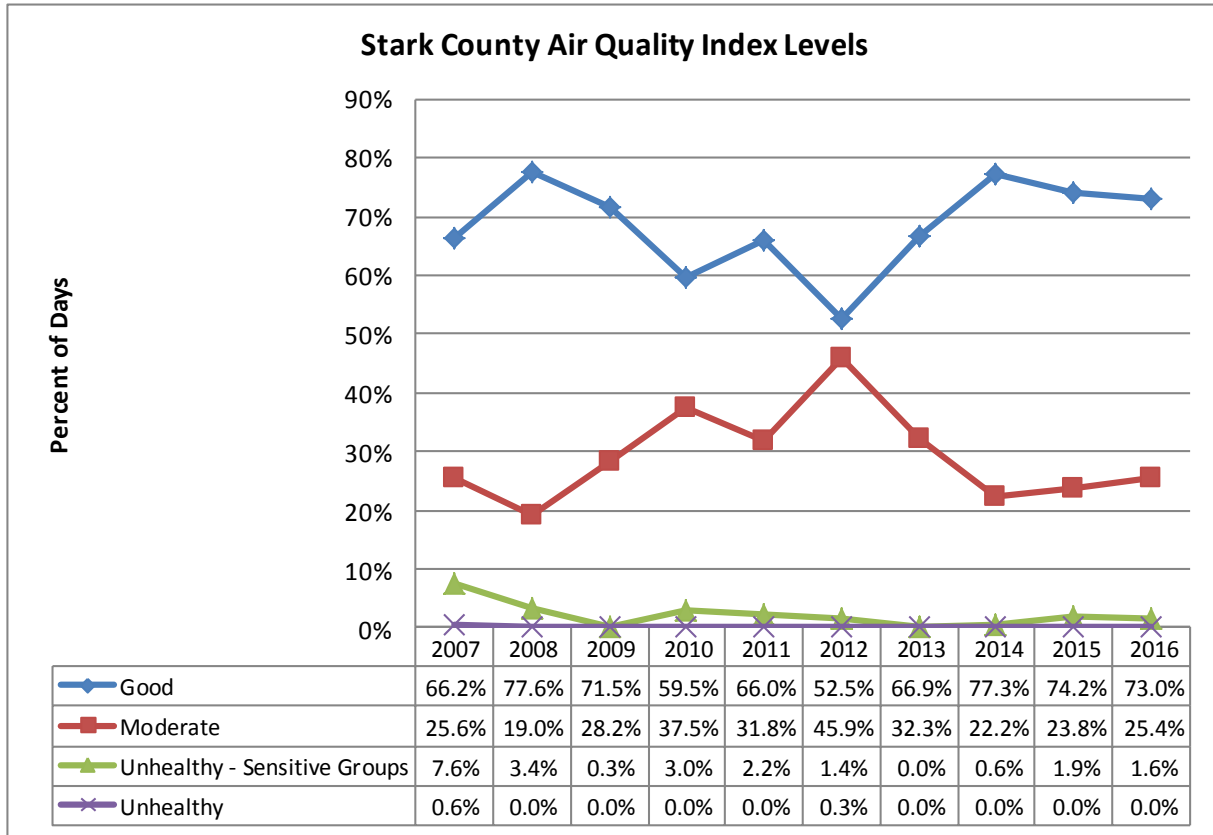


**Source:**  
Ohio Behavioral Risk Factor Surveillance System, Ohio Department of Health

**Caveat:**  
Estimates are based on statistical regression and not on actual counts.

**Definition:**  
Ever Had Asthma - Individuals who have reported ever having been diagnosed with asthma.  
Currently Have Asthma - Individuals who reported having asthma at the time of the survey.

# Environmental Health



**Source:**

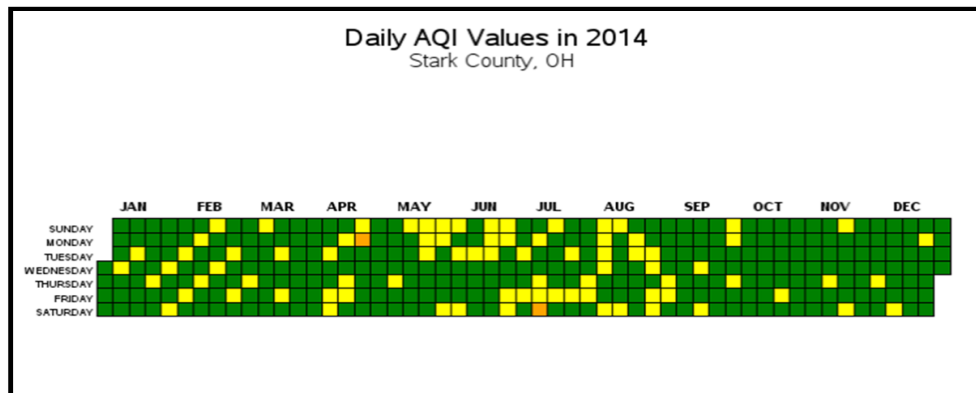
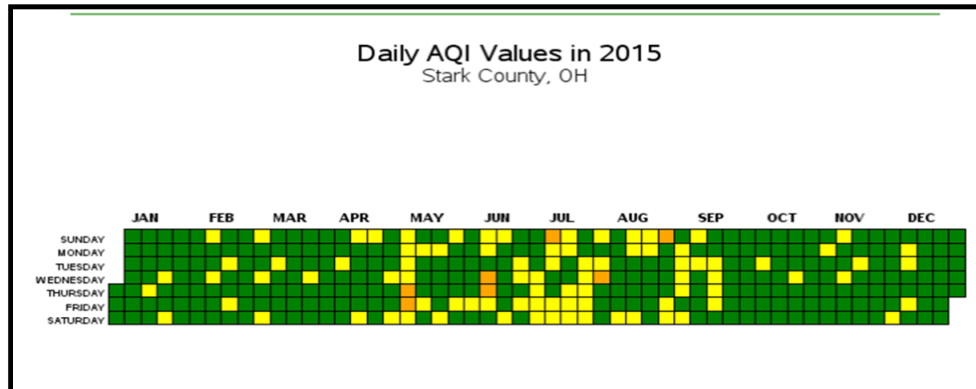
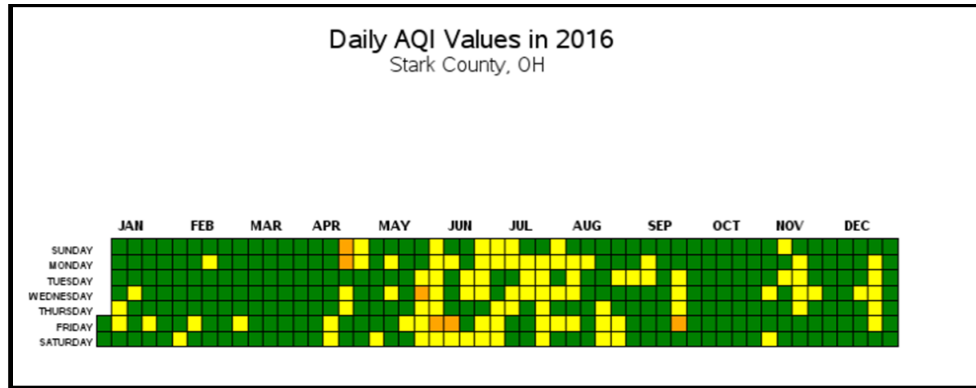
US EPA - Air Data Air Quality Index Report - <https://www.epa.gov/outdoor-air-quality-data>

**Notes:**

AirData reports are produced from an extract of EPA's air pollution database. They represent the best information available to EPA from agencies on that date. However, some values may be absent due to incomplete reporting, and some values subsequently may be changed due to quality assurance activities. The AQS database is updated daily by organizations who own and submit the data.

Air Quality Index (AQI) is a standardized value for reporting daily air quality based on the measured pollutant concentration that produces the highest AQI value. Generally, an AQI value of 100 equals the national air quality standard for the pollutant, which is the level set by EPA to protect public health and is considered satisfactory. Values above 100 are considered unhealthy.

# Environmental Health



**Source:**

US EPA - Air Data Air Quality Index Report - <https://www.epa.gov/outdoor-air-quality-data>

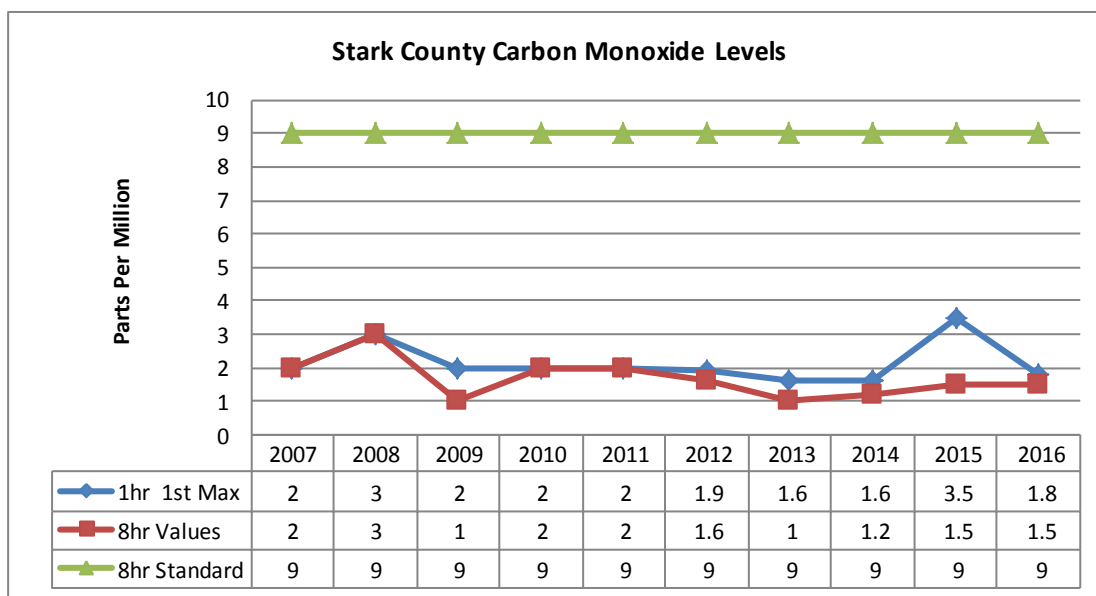
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# Environmental Health

Year	Carbon Monoxide		Ozone		Particle Matter 2.5	
	2nd Max 1-hr Value	2nd Max 8-hr Value	2nd Max 1-hr Value	4th Max 8-hr Value	98th Percentile Value	Annual Mean Value
2007	2.1	1.7	0.108	0.087	33.4	16.24
2008	2.9	2.5	0.090	0.077	38.5	13.12
2009	2.0	1.0	0.076	0.066	32.0	13.20
2010	2.0	2.0	0.095	0.080	42.0	15.00
2011	2.0	2.0	0.089	0.081	28.0	12.80
2012	1.8	1.6	0.089	0.077	27.0	12.30
2013	1.3	0.9	0.077	0.070	28.0	12.00
2014	1.5	1.1	0.078	0.065	25.0	11.60
2015	1.8	1.4	0.082	0.072	26.0	12.40
2016	1.8	1.4	0.080	0.072	20.0	9.50



**Source:**

US EPA - Air Data County Air Quality Report - [http://www.epa.gov/airdata/ad\\_rep\\_con.html](http://www.epa.gov/airdata/ad_rep_con.html)

**Notes:**

EPA National Ambient Air Quality Standards:

Carbon Monoxide - 35 parts per million (1 hr average), 9 parts per million (8 hr average)

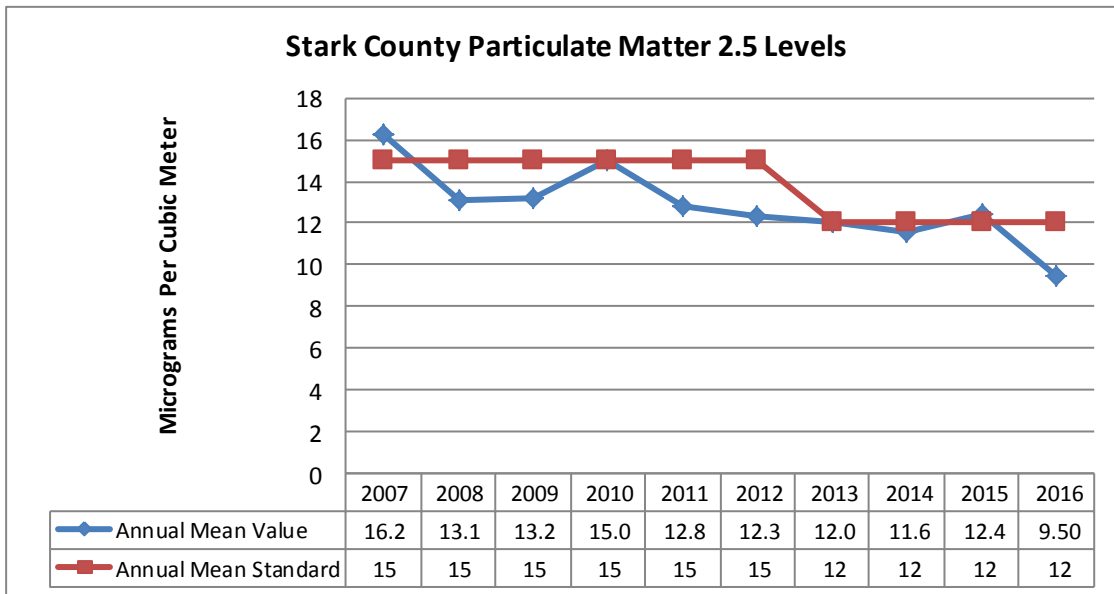
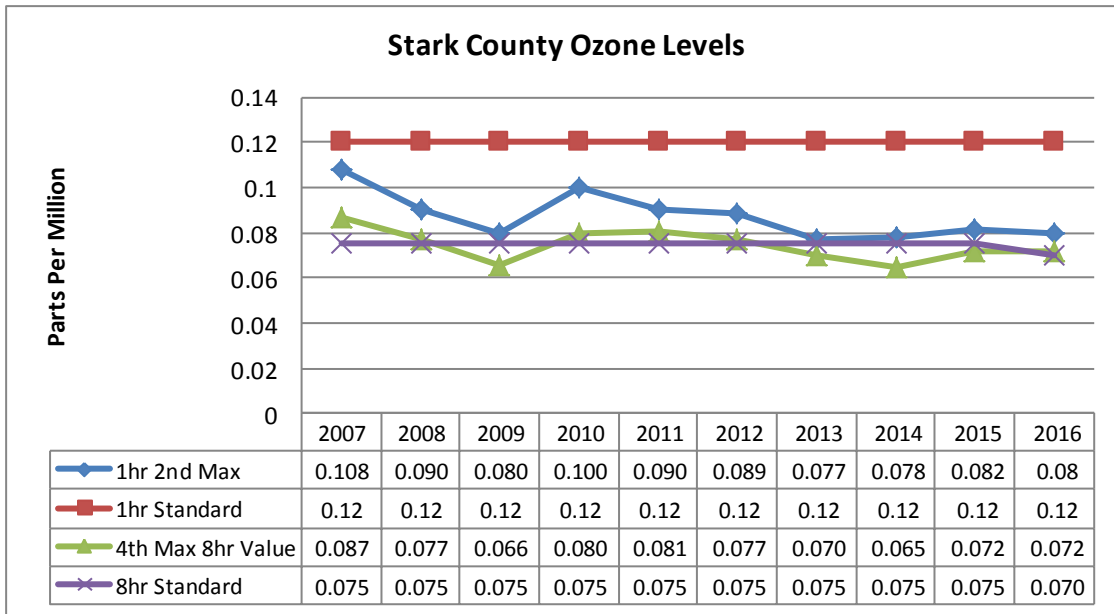
Ozone - 0.12 parts per million (1 hr average), 0.075 parts per million (8 hr average)

Particulate Matter (diameter <2.5 Micrometers) - 35 micrograms per cubic meter (24 hr average),  
12.0 micrograms per cubic meter (annual mean)

The annual mean standard for PM 2.5 changed from 15.0 micrograms per cubic meter to 12.0 micrograms per cubic meter in 2012, with implementation in 2013 at the new, lower standard.

AirData reports are produced from an extract of EPA's air pollutions database. They represent the best information available to EPA from agencies on that date. However, some values may be absent due to incomplete reporting, and some values subsequently may be changed due to quality assurance activities. The database is updated daily by state and local organizations who own and submit the data.

# Environmental Health



**Source:**

US EPA - Air Data Monitor Values Report - [http://www.epa.gov/airdata/ad\\_rep\\_mon.html](http://www.epa.gov/airdata/ad_rep_mon.html)

**Notes:**

EPA National Ambient Air Quality Standards:

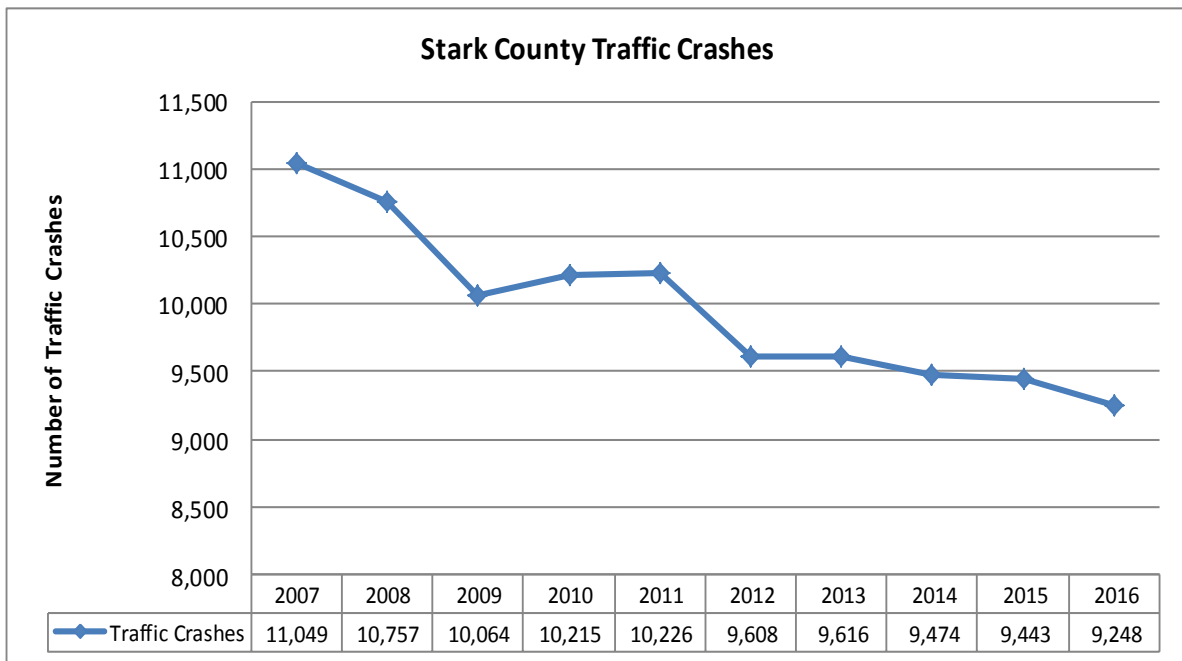
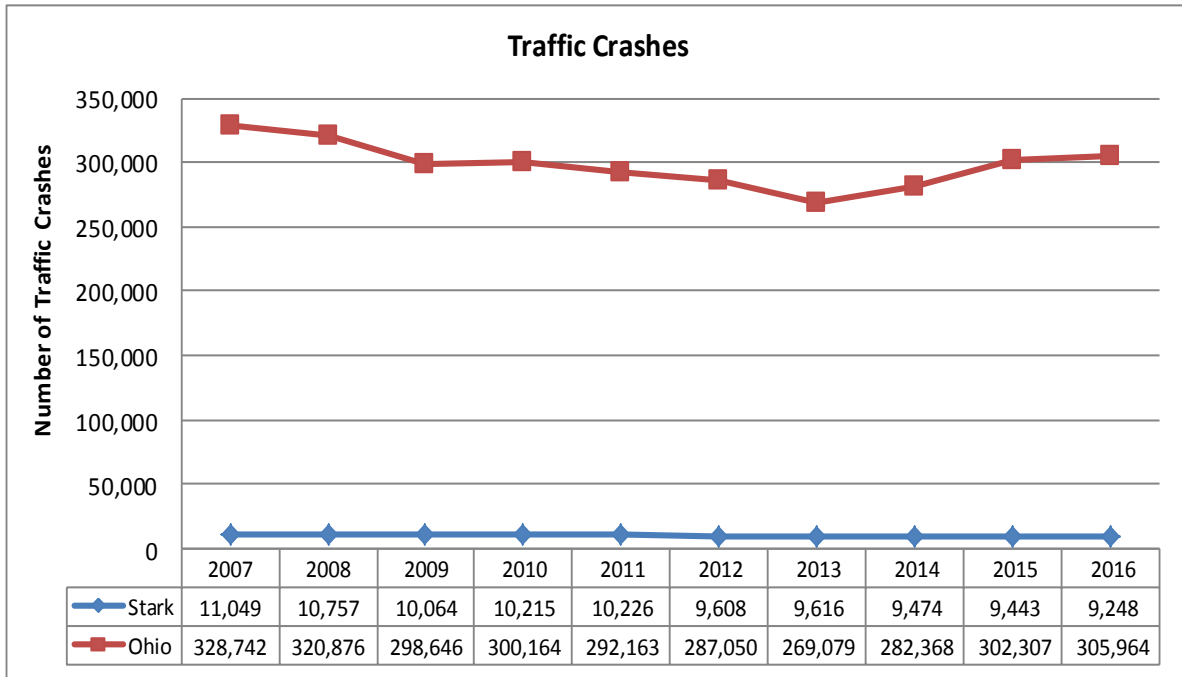
Ozone - 0.12 parts per million (1 hr average); 0.075 parts per million (8 hr average) 2006-2015. 0.070 parts per million (8 hr average) 2016 - current

Particulate Matter (diameter <2.5 Micrometers) - 35 micrograms per cubic meter ( 24 hr average),  
12.0 micrograms per cubic meter (annual mean)

The annual mean standard for PM 2.5 changed from 15.0 micrograms per cubic meter to 12.0 micrograms per cubic meter in 2012, with implementation in 2013 at the new, lower standard.

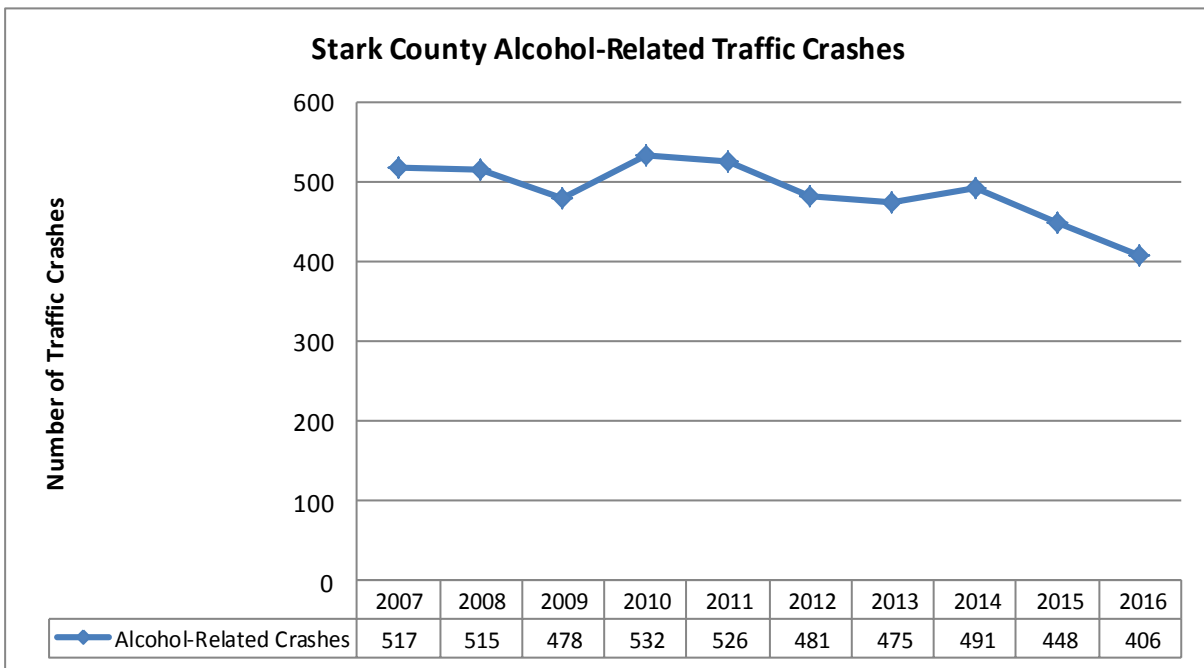
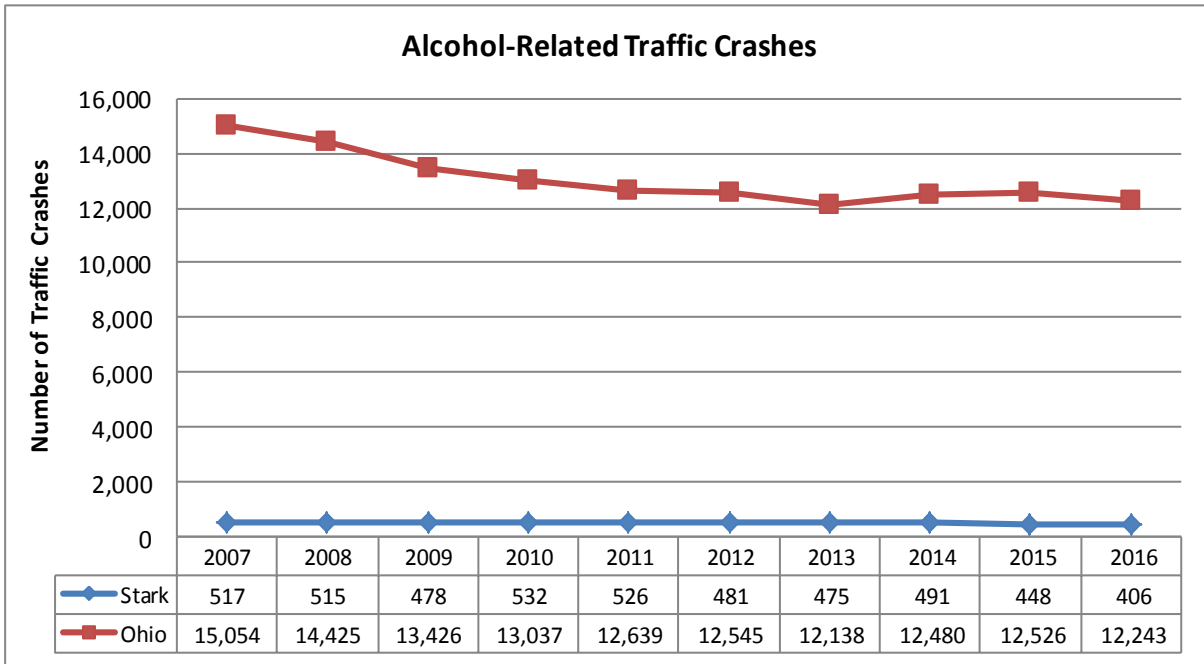
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# Public Safety



Source:  
Ohio Department of Public Safety - Traffic Crash Facts Report

# Public Safety



Source:  
Ohio Department of Public Safety - Traffic Crash Facts Report