

data appendix



CLINICAL CARE

Cancer Screening

Percentage of female Medicare enrollees ages 67-69 that receive mammography screening

DATA SOURCE: COUNTY HEALTH RANKINGS

| 2013 | 2016 | % CHANGE | STATE | HP 2020 | WORSENER |
|-------|-------|----------|-------|---------|----------|
| 59.0% | 40.0% | -32.20% | 41% | 76.80% | |

Women on Medicare receiving a mammogram decreased 32.2% since the 2016 CHA. Early breast cancer detection and diagnosis is important for increased chance of survival and overall quality of life.

Late stage diagnosis of breast cancer

DATA SOURCE: OHIO CANCER ATLAS, OHIO DEPARTMENT OF HEALTH

| 2008-12 | 2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|---------|-------|----------|--------|------------------------------------|----------|
| 28.9% | 27.4% | -5.20% | 28.20% | 42.1 new cases per 100,000 females | |

The percent of women who are diagnosed with late stage breast cancer has decreased 5.2% since the 2016 CHA. Catching cancer prior to this stage is crucial to the chances of survival. According to the American Cancer Society, if cancer is diagnosed in the late stage, only about one in five women will survive for at least five years after diagnosis.

Prevalence of pap testing in the past three years among women ages 21-65

DATA SOURCE: OHIO CANCER ATLAS, OHIO DEPARTMENT OF HEALTH

| 2014-2016 | % CHANGE | STATE | HP 2020 | N/A |
|-----------|----------|--------|---------|-----|
| 73.2% | N/A | 75.60% | 93.00% | |

Pap tests are important for predicting cervical cancer in women. In Summit County from the years 2014-2016, 73.2% of women had a pap test within the last three years.

Prevalence of meeting colorectal cancer screening guidelines among adults ages 50-75

DATA SOURCE: OHIO CANCER ATLAS, OHIO DEPARTMENT OF HEALTH

| 2014-2016 | % CHANGE | STATE | HP 2020 | N/A |
|-----------|----------|--------|---------|-----|
| 67.3% | N/A | 66.40% | 70.50% | |

Between 2014 and 2016, 67% of Summit County residents ages 50-75 reported a colorectal screening based on current guidelines.

Prenatal Care

Percentage of women receiving 1st trimester prenatal care

DATA SOURCE: SUMMIT COUNTY VITAL STATISTICS

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|-------|-------|----------|--------|---------|---------------------------|
| 74.9% | 70.9% | -1.50% | 75.40% | 77.90% | |

Prenatal care in the first trimester is associated with better birth outcomes. Pregnant women who start prenatal care later than the first trimester have an increased risk of poor birth outcomes such as low birth weight, premature birth and infant and maternal mortality. The percentage of women receiving first trimester prenatal care continues to decrease and was 70.9% in 2017.

Oral Health

Percentage of adults who have been to a dentist in the past 12 months (Akron Metropolitan Statistical Area)

DATA SOURCE: OHIO CANCER ATLAS, OHIO DEPARTMENT OF HEALTH

| 2012 | % CHANGE | STATE | HP 2020 | N/A |
|-------|----------|--------|---------|-----|
| 68.3% | N/A | 67.40% | 49.0% | |

The percentage of adults who have been to the dentist in the past 12 months is 68.3%. In 2010, this number was 75.6%. The Centers for Disease Control and Prevention has changed the way they reported this indicator, making the two numbers incomparable.

Percentage of middle school students that saw the dentist for routine checkup in the last 12 months

DATA SOURCE: YOUTH RISK BEHAVIOR SURVEY

| 2013 | 2018 | % CHANGE | STATE | HP 2020 | WORSENER |
|-------|-------|----------|-------|---------|----------|
| 75.6% | 71.5% | -5.40% | N/A | 49.0% | |

Tooth decay is one of the most common conditions from the ages of 5 to 19 years old. Children and teenagers should be receiving regular dental checks. The percentage of middle school students who are receiving regular dental checks has decreased from 75.6% in 2013 to 71.5% in 2018.

Percentage of high school students that saw the dentist for routine checkup in the last 12 months

DATA SOURCE: YOUTH RISK BEHAVIOR SURVEY

| 2013 | 2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|-------|-------|----------|-------|---------|----------|
| 71.5% | 73.8% | +3.2% | NA | 49.0% | |

Tooth decay is one of the most common conditions from the ages of 5 to 19 years old. Children and teenagers should be receiving regular dental checks. The percentage of high school students who are receiving regular dental checks has increased from 71.5% in 2013 to 73.8% in 2018.

Proportion of children and adolescents who used the oral health system within the past year

DATA SOURCE: OHIO MEDICAID ASSESSMENT SURVEY

| 2008 | 2017 | % CHANGE | STATE | HP 2020 | IMPROVED |
|-------|-------|----------|-------|---------|----------|
| 74.8% | 82.7% | +10.6% | N/A | 49.0% | |

The percentage of children and adolescents who used the oral health system within the past year has increased from 74.8% in 2008 to 82.7% in 2017.

Proportion of adults age 18-64 who used the oral health system within the past year

DATA SOURCE: OHIO MEDICAID ASSESSMENT SURVEY

| 2008 | 2017 | % CHANGE | STATE | HP 2020 | IMPROVED |
|-------|-------|----------|-------|---------|----------|
| 71.5% | 65.7% | -8.10% | NA | 49.0% | |

The percentage of adults that are age 18-64 years old who used the oral health system within the past year has decreased from 71.5% in 2008 to 65.7% in 2017.

Number of schools participating in school-based sealant programs

DATA SOURCE: SUMMIT COUNTY PUBLIC HEALTH

| 2012 | 2019 | % CHANGE | STATE | HP 2020 | WORSENE |
|------|------|----------|-------|---------|---------|
| 47 | 40 | -14.9% | N/A | N/A | |

School-based sealant programs are detrimental in helping our students maintain proper oral hygiene. The number of schools participating in school-based sealant programs has decreased from 47 schools in 2012 to 40 schools in 2019.

Number of dentists and oral surgeon practices that accept Medicaid

DATA SOURCE: OHIO DEPARTMENT OF MEDICAID

| 2015 | 2019 | % CHANGE | STATE | HP 2020 | IMPROVED |
|------|------|----------|-------|---------|----------|
| 33 | 60 | +81.8% | NA | NA | |

The number of dentists and oral surgeon practices that accept Medicaid has increased from 33 practices in 2015 to 60 practices in 2019.

Health Care Access

Emergency department utilization per 1,000 population

DATA SOURCE: EPI CENTER

| 2016 | 2018 | % CHANGE | STATE | HP 2020 | N/A |
|------|------|----------|-------|---------|-----|
| 578 | 577 | -0.20% | N/A | N/A | |

The total emergency department visits for all causes per 1,000 population was 577 in 2018.

Percentage of adults 19-64 who had no health insurance

DATA SOURCE: CMS, AMERICAN COMMUNITY SURVEY

| 2017 | % CHANGE | STATE | HP 2020 | N/A |
|------|----------|-------|---------|-----|
| 7.0% | N/A | 7.40% | 0.0% | |

Percentage of dual eligible adults in Summit County (Medicare/Medicaid)

DATA SOURCE: CMS, AMERICAN COMMUNITY SURVEY

| 2016 | 2018 | % CHANGE | STATE | HP 2020 | N/A |
|------|------|----------|-------|---------|-----|
| 3.9% | 3.3% | -15.40% | NA | NA | |

The percentage of dual eligible adults in Summit County Medicaid/Medicare has decreased from 3.9% in 2015 to 3.3% in 2018.

Percentage of children under 19 without health insurance

DATA SOURCE: AMERICAN COMMUNITY SURVEY

| 2017 | % CHANGE | STATE | HP 2020 | N/A |
|------|----------|-------|---------|-----|
| 2.9% | N/A | 7.40% | 0.0% | |

Ratio of population to primary care physicians

DATA SOURCE: COUNTY HEALTH RANKINGS

| 2013 | 2016 | % CHANGE | STATE | HP 2020 | WORSENER |
|--------|--------|----------|--------|---------|----------|
| 1000:1 | 1040:1 | +4% | 1300:1 | N/A | |

The ratio of population to primary care providers has increased over time from 1000:1 in 2013 to 1040:1 in 2016.

Ratio of mental health providers

DATA SOURCE: COUNTY HEALTH RANKINGS

| 2015 | 2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|-------|-------|----------|-------|---------|----------|
| 530:1 | 410:1 | -22.60% | 470:1 | N/A | |

The ratio of population to mental health providers has decreased over time from 799:1 in 2013 and 530:1 in 2015 to 410:1 in 2018.

Ratio of dentists

DATA SOURCE: COUNTY HEALTH RANKINGS

| 2013 | 2017 | % CHANGE | STATE | HP 2020 | IMPROVED |
|--------|--------|----------|--------|---------|----------|
| 1709:1 | 1530:1 | -7.00% | 1620:1 | N/A | |

The ratio of the Summit County population to the total number of dentists in the County. The ratio of dentists decreased from 1709:1 in 2013 to 1530:1 in 2017.

Average waiting time (days) for detox for males

DATA SOURCE: COUNTY OF SUMMIT ALCOHOL DRUG AND MENTAL HEALTH SERVICES BOARD

| 2015 | 2019 | % CHANGE | STATE | HP 2020 | IMPROVED |
|------|------|----------|-------|---------|----------|
| 9 | 0 | N/A | N/A | N/A | |

On average, males had to wait 9 days for detox in 2015, but there has been a decrease in waiting days as time went on. There is now a 0 day waiting time for detox among males in 2019.

Average waiting time (days) for detox for females

DATA SOURCE: COUNTY OF SUMMIT ALCOHOL DRUG AND MENTAL HEALTH SERVICES BOARD

| 2015 | 2019 | % CHANGE | STATE | HP 2020 | IMPROVED |
|------|------|----------|-------|---------|----------|
| 6 | 0 | N/A | N/A | N/A | |

On average, females had to wait 6 days for detox in 2015, but there has been a decrease in waiting days as time went on. There is now a 0 day waiting time for detox among females in 2019.

Average waiting time (days) for residential for males

DATA SOURCE: COUNTY OF SUMMIT ALCOHOL DRUG AND MENTAL HEALTH SERVICES BOARD

| 2015 | 2019 | % CHANGE | STATE | HP 2020 | IMPROVED |
|------|------|----------|-------|---------|----------|
| 62 | 11 | N/A | N/A | N/A | |

The waiting time for men to receive residential treatment has decreased from 62 days in 2015 to 11 days in 2019.

Average waiting time (days) for residential for females

DATA SOURCE: COUNTY OF SUMMIT ALCOHOL DRUG AND MENTAL HEALTH SERVICES BOARD

| 2015 | 2019 | % CHANGE | STATE | HP 2020 | IMPROVED |
|------|------|----------|-------|---------|----------|
| 32 | 6 | N/A | N/A | N/A | |

The waiting time for women to receive residential treatment has decreased from 32 days in 2015 to 6 days in 2019.

Preventable hospital stays (number of hospital stays for ambulatory-care sensitive conditions per 1,000 Medicare enrollees)

DATA SOURCE: COUNTY HEALTH RANKINGS

| 2013 | 2016 | % CHANGE | STATE | HP 2020 | IMPROVED |
|------|------|----------|-------|---------|----------|
| 67.0 | 51.0 | -23.90% | 51.3 | N/A | |

The number of hospital stays for ambulatory-care sensitive conditions per 1,000 Medicare enrollees has decreased from 67.0 in 2013 to 51.0 in 2016.

Language Access

Cost of translation services among Summit County large public institutions

DATA SOURCE: SUMMIT COUNTY PUBLIC HEALTH SURVEY

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | N/A |
|-----------|-------------|----------|-------|---------|-----|
| \$865,047 | \$2,236,684 | 158% | N/A | N/A | |

The cost of translation services in Summit County continues to rise from \$865,047 in 2016 to \$2,236,684 in 2017.

Language other than English spoken at home

DATA SOURCE: AMERICAN COMMUNITY SURVEY

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | IMPROVED |
|--------|--------|----------|--------|---------|----------|
| 35.60% | 39.60% | -14.9% | 33.50% | N/A | |

Percent of people that are age 5 years+ that speak English (less than very well) as well as another language in the home has decreased from 35.6% in 2011 and 39.6% in 2016 to 33.7% in 2017.

Health Screening

Ever told blood pressure was high

DATA SOURCE: BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|--------|--------|----------|-------|---------|---------------------------|
| 34.70% | 36.50% | +5.2% | 34.7% | N/A | |

The percentage of individuals who were told that their blood pressure was high slightly increased from 32.4% in 2011 and 34.7% in 2015 to 36.5% in 2017. This increase is not a statistically significant difference.

Ever told have diabetes

DATA SOURCE: BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|-------|--------|----------|-------|---------|---------------------------|
| 9.90% | 12.10% | +22.2% | 12% | N/A | |

The percentage of individuals told that they have diabetes slightly decreased from 10.2% in 2011 to 9.9% in 2015. The percentage

slightly increased from 9.9% in 2015 to 12.1% in 2017 which was seen as not a statistically significant difference.

Prediabetes

DATA SOURCE: BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|-------|-------|----------|-------|---------|---------------------------|
| 6.80% | 6.10% | -10.3% | 7.30% | N/A | |

The percentage of individuals who are pre-diabetic increased from 4.6% in 2011 to 6.8% in 2015, then the percentage slightly decreased from 6.8% in 2015 to 6.1% in 2017. The decrease is not a statistically significant difference.

BMI of 29.9 kg/m² or greater

DATA SOURCE: BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|--------|--------|----------|-------|---------|---------------------------|
| 24.40% | 29.80% | +22.1% | 33.8% | 30.5% | |

Health screenings have shown that the percentage of individuals with BMI of 29.9kg/m² or greater which are the guidelines for obesity slightly increased from 23.1% in 2011 to 24.4% in 2015 and 29.8% in 2017. The 2011-2015 increase is not a statistically significant difference.

Adults diagnosed with depressive disorder

DATA SOURCE: BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|--------|--------|----------|--------|---------|---------------------------|
| 21.60% | 20.60% | -4.6% | 22.60% | N/A | |

The percentage of adults diagnosed with depressive disorder increased from 14% in 2011 to 21.6% in 2015. The percentage showed little to no significant difference when it slightly decreased from 21.6% in 2015 to 20.6% in 2017.

HEALTH BEHAVIORS

Smoking

Adult smoking

DATA SOURCE: COUNTY HEALTH RANKINGS

| 2014 | 2016 | % CHANGE | STATE | HP 2020 | N/A |
|-------|-------|----------|-------|---------|-----|
| 21.0% | 20.0% | N/A | 23% | 12.0% | |

According to the 2019 County Health Rankings, 1 out of 5 adults (20%) in Summit County were smokers in 2016. This cannot be reliably compared to data from previous years due to differences in data collection methodology.

Adult e-cigarette use (current users)

DATA SOURCE: BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|------|------|----------|-------|---------|---------------------------|
| 2.8% | 4.6% | +64.3% | 5.30% | N/A | |

The percentage of adults that currently use e-cigarettes slightly increased from 2.8% in 2015 to 4.6% in 2017. This increase is not a statistically significant difference.

Adults who have ever tried e-cigarettes

DATA SOURCE: BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM

| 2017 | % CHANGE | STATE | HP 2020 | N/A |
|-------|----------|--------|---------|-----|
| 22.8% | N/A | 24.50% | N/A | |

Percent of middle school students who have ever tried an e-cigarette

DATA SOURCE: YOUTH RISK BEHAVIOR SURVEY

| 2017 | % CHANGE | STATE | HP 2020 | N/A |
|-------|----------|-------|---------|-----|
| 16.3% | N/A | N/A | N/A | |

Percent of high school students who have ever tried an e-cigarette

DATA SOURCE: YOUTH RISK BEHAVIOR SURVEY

| 2017 | % CHANGE | STATE | HP 2020 | N/A |
|-------|----------|-------|---------|-----|
| 42.3% | N/A | N/A | N/A | |

Percent of middle school students who are current cigarette users

DATA SOURCE: YOUTH RISK BEHAVIOR SURVEY

| 2013 | 2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|------|------|----------|-------|---------|----------|
| 4.2% | 1.9% | -54.80% | N/A | 21.0% | |

Percent of high school students who are current cigarette users

DATA SOURCE: YOUTH RISK BEHAVIOR SURVEY

| 2013 | 2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|-------|------|----------|-------|---------|----------|
| 13.5% | 5.8% | -57.00% | N/A | 21.0% | |

Physical Activity

Physical inactivity

DATA SOURCE: COUNTY HEALTH RANKINGS

| 2012 | 2015 | % CHANGE | STATE | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|-------|-------|----------|-------|---------|---------------------------|
| 24.0% | 24.0% | 0.00% | 25% | 32.6% | |

Physical inactivity is a risk factor for several diseases and health conditions. There has been no statistically significant change in this indicator since the 2016 CHA.

Access to exercise opportunities

DATA SOURCE: COUNTY HEALTH RANKINGS

| 2014 | 2018 | % CHANGE | STATE | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|-------|-------|----------|-------|---------|---------------------------|
| 96.0% | 94.0% | 0.00% | 84% | N/A | |

According to the County Health Rankings, 96% of Summit County residents reported to be living reasonably close to a location for physical activity, such as parks or recreational facilities in 2014. This number decreased by 2.1% by 2018 with 94% reporting living close to a location for physical activity.

Alcohol Use

Excessive drinking

DATA SOURCE: COUNTY HEALTH RANKINGS

| 2014 | 2016 | % CHANGE | STATE | HP 2020 | N/A |
|-------|-------|----------|-------|---------|-----|
| 16.0% | 18.0% | N/A | 19% | 25.4% | |

The percentage of adults who were found to be excessive drinking was 16% in 2014 and is 18% in 2016. However, data was gathered through different methods so current year can not be compared to previous years.

Heavy alcohol consumption

DATA SOURCE: BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|-------|-------|----------|-------|---------|---------------------------|
| 4.30% | 4.80% | +11.6% | 6.20% | N/A | |

The percentage of heavy alcohol consumption has showed little to no significant difference by slightly increasing from 4.3% in 2015 to 4.8% in 2017.

Middle school current alcohol use

DATA SOURCE: YOUTH RISK BEHAVIOR SURVEY

| 2013 | 2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|-------|-------|----------|-------|---------|----------|
| 8.60% | 6.00% | -30.20% | N/A | 8.6% | |

The percentage of youth in middle school reporting having drank in the last 30 days has decreased from 8.6% in 2013 to 6% in 2018.

High school current alcohol use

DATA SOURCE: YOUTH RISK BEHAVIOR SURVEY

| 2013 | 2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|-------|-------|----------|-------|---------|----------|
| 30.3% | 23.8% | -21.50% | N/A | 8.6% | |

The percentage of youth in High school reporting having drank in the last 30 days has decreased from 30.3% in 2013 to 23.8% in 2018.

Alcohol-impaired driving deaths

DATA SOURCE: COUNTY HEALTH RANKINGS

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | IMPROVED |
|-------|-------|----------|--------|--|----------|
| 52.0% | 44.0% | -15.40% | 33.00% | 0.38 deaths per 100 million vehicle miles traveled | |

The percentage of alcohol-impaired deaths has decreased from 52.0% in 2015 and 44.0% in 2017.

Sexual Behaviors

Chlamydia

DATA SOURCE: OHIO DISEASE REPORTING SYSTEM

| 2015 | 2018 | % CHANGE | STATE | HP 2020 | WORSENE |
|------|------|----------|-------|---------|---------|
| 568 | 632 | +11.3% | 520.9 | N/A | |

The cases of chlamydia per 100,000 have increased from 489 cases in 2011 and 568 cases in 2015 to 632 cases in 2018.

Gonorrhea

DATA SOURCE: OHIO DISEASE REPORTING SYSTEM

| 2015 | 2018 | % CHANGE | STATE | HP 2020 | WORSENER |
|------|-------|----------|-------|--------------------------------------|----------|
| 164 | 205.8 | +25.5% | 206.4 | 251.9 for females 194.8 for males | |

The cases of gonorrhea per 100,000 have increased from 125.2 cases in 2011 and 164 cases in 2015 to 205.8 cases in 2018.

Middle school condom use

DATA SOURCE: YOUTH RISK BEHAVIOR SURVEY

| 2013 | 2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|--------|-------|----------|-------|---------|----------|
| 16.70% | 46.3% | +177.2% | N/A | N/A | |

Middle school condom use has increased from 16.7% in 2013 to 46.3% in 2018.

High school condom use

DATA SOURCE: YOUTH RISK BEHAVIOR SURVEY

| 2013 | 2018 | % CHANGE | STATE | HP 2020 | WORSENER |
|-------|-------|----------|-------|---------|----------|
| 58.2% | 53.3% | -8.40% | N/A | N/A | |

High school condom use has decreased from 58.2% in 2013 to 53.3% in 2018.

Had first sexual intercourse before age 13

DATA SOURCE: YOUTH RISK BEHAVIOR SURVEY

| 2013 | 2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|------|------|----------|-------|---------|----------|
| 6.8% | 3.4% | -50.0% | N/A | N/A | |

The percentage of high school students who had sexual intercourse before the age of 13 years old decreased from 6.8% in 2013 to 3.4% in 2018.

Been pregnant or gotten someone pregnant

DATA SOURCE: YOUTH RISK BEHAVIOR SURVEY

| 2013 | 2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|------|------|----------|-------|---------|----------|
| 4.2 | 2.3 | -45.20% | N/A | N/A | |

The percentage of high school students who have gotten pregnant or gotten someone else pregnant has decreased from 4.2% in 2013 to 2.3% in 2018.

HIV

DATA SOURCE: HIV/AIDS SURVEILLANCE PROGRAM, OHIO DEPARTMENT OF HEALTH

| 2013 | 2017 | % CHANGE | STATE | HP 2020 | WORSENER |
|------|------|----------|-------|---------|----------|
| 7.6 | 8.5 | +11.8 | 8.4 | 12.4 | |

The new diagnoses of HIV/AIDS infection per 100,000 has increased from a rate of 7.6 in 2011 to 8.5.

Black teen birth rate (per 1,000)

DATA SOURCE: SUMMIT COUNTY VITAL STATISTICS

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | IMPROVED |
|------|------|----------|-------|---------|----------|
| 20.1 | 20 | -0.50% | 20 | N/A | |

The black teen birth rate per 1,000 has decreased from 40.7 in 2011 and 20.1 in 2015 to 20 in 2017.

Teen birth rate (per 1,000)

DATA SOURCE: SUMMIT COUNTY VITAL STATISTICS

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | IMPROVED |
|------|------|----------|-------|---------|----------|
| 9.1 | 7.4 | -18.70% | 8.4 | N/A | |

The teen birth rate has decreased from 12.9 in 2011 and 9.1 in 2015 to 7.4 in 2017.

Drug Use

Drug overdose deaths (per 100,000)

DATA SOURCE: COUNTY OF SUMMIT MEDICAL EXAMINER

| 2015 | 2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|------|------|----------|-------|---------|----------|
| 24.2 | 19.7 | -18.60% | N/A | N/A | |

The rate of drug overdose deaths per 100,000 have decreased from 24.2 deaths in 2015 to 19.7 deaths in 2018.

Prescription drug abuse (opiates) per 1,000 Medicaid beneficiaries

DATA SOURCE: OHIO AUDITOR OF STATE

| 2010 | 2016 | % CHANGE | STATE | HP 2020 | WORSENER |
|------|------|----------|-------|---------|----------|
| 7.1 | 26.5 | +273.2% | 26.5 | N/A | |

The prescription drug abuse per 1,000 Medicaid beneficiaries has increased from 7.1 in 2010 to 26.5 in 2016.

High school marijuana use

DATA SOURCE: YOUTH RISK BEHAVIOR SURVEY

| 2013 | 2018 | % CHANGE | STATE | HP 2020 | WORSENER |
|--------|--------|----------|-------|---------|----------|
| 36.60% | 31.30% | -15.0% | N/A | N/A | |

The percentage of students in high school who have ever smoked marijuana has decreased from 36.6% in 2013 to 31.3% in 2018.

High school cocaine use

DATA SOURCE: YOUTH RISK BEHAVIOR SURVEY

| 2013 | 2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|-------|-------|----------|-------|---------|----------|
| 5.80% | 2.70% | -53.4% | N/A | N/A | |

The percentage of students in high school who have ever used cocaine has decreased from 5.8% in 2013 to 2.7% in 2018.

High school heroin use

DATA SOURCE: YOUTH RISK BEHAVIOR SURVEY

| 2013 | 2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|-------|-------|----------|-------|---------|----------|
| 4.10% | 1.50% | -63.4% | N/A | N/A | |

The percentage of students in high school who have ever used heroin decreased from 4.1% in 2013 to 1.5% in 2018.

High school methamphetamine use

DATA SOURCE: YOUTH RISK BEHAVIOR SURVEY

| 2013 | 2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|-------|-------|----------|-------|---------|----------|
| 5.00% | 1.80% | -64.0% | N/A | N/A | |

The percentage of students in high school who have ever used methamphetamines decreased from 5.0% in 2013 to 1.8% in 2018.

Unintentional Injuries

Motor vehicle crash deaths (per 100,000)

DATA SOURCE: SUMMIT COUNTY VITAL STATISTICS

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | WORSENER |
|------|------|----------|-------|---------|----------|
| 5.2 | 8.5 | +63.5% | 10 | 12.4 | |

The rate of motor vehicle crash deaths increased from 5.2 deaths per 100,000 in 2015 to 8.5 deaths per 100,000 in 2017.

Falls among senior citizens leading to death (per 100,000)

DATA SOURCE: SUMMIT COUNTY VITAL STATISTICS

| 2015 | 2018 | % CHANGE | STATE | HP 2020 | WORSENER |
|------|------|----------|-------|---------|----------|
| 39 | 51.4 | +31.8% | 73.1 | N/A | |

The rate of falls by senior citizens per 100,000 that lead to death has increased from 39 deaths in 2015 to 51.4 deaths in 2018.

ER visit rate resulting from falls among senior citizens (per 1,000 seniors)

DATA SOURCE: EPICENTER

| 2015 | 2018 | % CHANGE | STATE | HP 2020 | WORSENER |
|------|------|----------|-------|---------|----------|
| 50.1 | 82.4 | +64.5% | 66.9 | N/A | |

The senior citizens ER visit rate due to incidents that required a fall increased from 50.1 per 1,000 seniors in 2015 to 82.4 per 1,000 seniors in 2018.

Deaths resulting from traumatic brain injuries (per 100,000)

DATA SOURCE: SUMMIT COUNTY VITAL STATISTICS

| 2010 | 2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|------|------|----------|-------|---------|----------|
| 17.4 | 17 | -2.3% | N/A | 15.7 | |

The rate of deaths resulting from traumatic brain injuries has decreased from 17.4 deaths per 100,000 in 2010 to 17 deaths per 100,000 in 2018.

Emergency room visits resulting from traumatic brain injuries (per 100,000)

DATA SOURCE: EPICENTER

| 2015 | 2018 | % CHANGE | STATE | HP 2020 | WORSENER |
|--------|-------|----------|-------|---------|----------|
| 457.90 | 587.9 | +28.4% | 504.1 | 366.5 | |

The rate of emergency visits resulting from traumatic brain injury per 100,000 increased from 309.4 ER visits in 2011 and 457.9 ER visits in 2015 to 587.9 ER visits in 2018.

Emergency room visits among children resulting from traumatic brain injuries (per 100,000)

DATA SOURCE: EPICENTER

| 2015 | 2018 | % CHANGE | STATE | HP 2020 | WORSENER |
|--------|--------|----------|---------|---------|----------|
| 793.40 | 1129.6 | +42.4% | 1,033.6 | 366.5 | |

The rate of emergency visits resulting from traumatic brain injury per 100,000 for children increased from 743.4 ER visits in 2011 and 793.4 ER visits in 2015 to 1,129.6 ER visits in 2018.

Emergency room visits among adults resulting from traumatic brain injuries (per 100,000)

DATA SOURCE: EPICENTER

| 2015 | 2018 | % CHANGE | STATE | HP 2020 | WORSENER |
|-------|-------|----------|-------|---------|----------|
| 292.4 | 409.9 | +40.2% | 307.4 | 366.5 | |

The adult rate of emergency visits resulting from traumatic brain injury per 100,000 increased from 174 ER visits in 2011 and 292.4 ER visits in 2015 to 409.9 ER visits in 2018.

Emergency room visits among seniors resulting from traumatic brain injuries (per 100,000)

DATA SOURCE: EPICENTER

| 2015 | 2018 | % CHANGE | STATE | HP 2020 | WORSENER |
|-------|-------|----------|-------|---------|----------|
| 480.5 | 560.9 | +16.7% | 514.7 | 366.5 | |

The senior rate for emergency visits resulting from traumatic brain injury per 100,000 increased from 222.4 ER visits in 2011 and 480.5 ER visits in 2015 to 560.9 ER visits in 2018.

Sleep

Middle school students that average eight or more hours of sleep

DATA SOURCE: YOUTH RISK BEHAVIOR SURVEY

| 2013 | 2018 | % CHANGE | STATE | HP 2020 | WORSENER |
|--------|--------|----------|-------|---------|----------|
| 53.70% | 45.40% | -15.5% | N/A | N/A | |

Insufficient sleep is associated with multiple chronic diseases and conditions. The percentage of youth in Middle Schools that average a total of eight or more hours of sleep per night decreased from 53.7% in 2013 to 45.4% in 2018.

High school students that average eight or more hours of sleep

DATA SOURCE: YOUTH RISK BEHAVIOR SURVEY

| 2013 | 2018 | % CHANGE | STATE | HP 2020 | WORSENER |
|--------|--------|----------|-------|---------|----------|
| 26.80% | 19.60% | -26.9% | N/A | 33.1% | |

Insufficient sleep is associated with multiple chronic diseases and conditions. The percentage of youth in high school that average a total of eight or more hours of sleep per night decreased from 26.8% in 2013 to 19.6% in 2018.

SOCIAL & ECONOMIC FACTORS

Education

Percent of persons age 25+ with a two year degree or higher

DATA SOURCE: AMERICAN COMMUNITY SURVEY

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|-------|-------|----------|--------|---------|---------------------------|
| 40.0% | 40.4% | +1% | 36.70% | N/A | |

The percentage of people that are age 25+ with a school degree from a 2 year institution or higher increased from 36.2% in 2009 to 40.0% in 2015. The percentage showed little to no significant difference by slightly increasing from 40.0% in 2015 to 40.4% in 2017.

Percent scoring proficient or above on 3rd grade reading proficiency test

DATA SOURCE: SUMMIT EDUCATION INITIATIVE

| 2017 | 2018 | % CHANGE | STATE | HP 2020 | WORSENER |
|-------|-------|----------|-------|---------|----------|
| 66.0% | 64.0% | -3.00% | N/A | N/A | |

The percentage of people who are scoring proficient or above on 3rd grade reading proficiency test decreased from 66% in 2017 to 64% in 2018.

Average general education teachers per 1,000 students

DATA SOURCE: OHIO DEPARTMENT OF EDUCATION

| 2015 | 2018 | % CHANGE | STATE | HP 2020 | N/A |
|-------|------|----------|-------|---------|-----|
| 45.23 | 44.9 | -0.73% | N/A | N/A | |

The average number of general education teachers per 1,000 students decreased from 45.23 in 2015 to 44.9 in 2018.

Kindergarten readiness

DATA SOURCE: SUMMIT EDUCATION INITIATIVE

| 2017 | 2018 | % CHANGE | STATE | HP 2020 | WORSENER |
|-------|-------|----------|-------|---------|----------|
| 65.0% | 60.0% | -7.70% | N/A | N/A | |

According to the Summit Education Initiative, preschool-age children who are ready for kindergarten are more likely to do well on their 3rd grade reading scores. The percentage of students who are categorized as being ready for kindergarten decreased from 65% in 2016 and 2017 to 60% in 2018.

Disciplinary actions (out-of-school suspensions) per 100 students

DATA SOURCE: OHIO DEPARTMENT OF EDUCATION

| 2016 | 2018 | % CHANGE | STATE | HP 2020 | WORSENER |
|------|------|----------|-------|---------|----------|
| 10.3 | 18.3 | +77.7% | N/A | N/A | |

The percentage of disciplinary actions such as out of school suspensions per 100 students increased from 16 in 2011 to 18.3 in 2018.

Residents age 16-19 who are not enrolled in school, not a high school graduate, and who are either unemployed or not in the labor force

DATA SOURCE: AMERICAN COMMUNITY SURVEY

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | WORSENER |
|-------|-------|----------|-------|---------|----------|
| 1.40% | 3.20% | +128.6% | 3.90% | N/A | |

The percentage of residents age 16 - 19 who are not enrolled in school, not a high school graduate, and are unemployed/not in a labor force increased from 1.4% in 2015 to 3.2% in 2017.

Average school attendance rate

DATA SOURCE: OHIO DEPARTMENT OF EDUCATION

| 2015 | 2018 | % CHANGE | STATE | HP 2020 | WORSENER |
|--------|--------|----------|-------|---------|----------|
| 96.30% | 94.70% | -1.60% | N/A | N/A | |

The average attendance rate of the students in Summit County decreased from 96.4% in 2011 and 96.3% in 2015 to 94.7% in 2018.

Average four-year high school graduation rate

DATA SOURCE: OHIO DEPARTMENT OF EDUCATION

| 2015 | 2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|-------|-------|----------|--------|---------|----------|
| 88.8% | 93.9% | 5.70% | 85.30% | 87.0% | |

The average rate of high school graduates who graduate in 4 years has increased from 88.8% in 2015 to 93.9% in 2018. The percentage rose for all school districts combined.

Employment

Unemployment rate

DATA SOURCE: AMERICAN COMMUNITY SURVEY

| 2015 | 2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|-------|-------|----------|-------|---------|----------|
| 6.00% | 4.60% | -23.30% | 4.60% | N/A | |

The unemployment rate decreased from 11.1% in 2009 and 6% in 2015 to the preliminary rate of 4.6% in 2018.

Income inequality

DATA SOURCE: AMERICAN COMMUNITY SURVEY

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|------|------|----------|-------|---------|---------------------------|
| 47.6 | 47.3 | -0.60% | 46.4 | N/A | |

The income inequality rate slightly increased from 45.4% in 2009 to 47.6% in 2015. The rate showed little to no significant difference by slightly decreasing from 47.6% in 2015 to 47.3% in 2017.

Median household income

DATA SOURCE: AMERICAN COMMUNITY SURVEY

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | IMPROVED |
|----------|----------|----------|----------|---------|----------|
| \$51,309 | \$55,419 | +8% | \$54,021 | N/A | |

Education, healthcare and social assistance jobs

DATA SOURCE: AMERICAN COMMUNITY SURVEY

| 2016 | 2017 | % CHANGE | STATE | HP 2020 | N/A |
|-------|------|----------|--------|---------|-----|
| 24.7% | 22% | -10% | 24.10% | N/A | |

Manufacturing jobs

DATA SOURCE: AMERICAN COMMUNITY SURVEY

| 2016 | 2017 | % CHANGE | STATE | HP 2020 | N/A |
|-------|-------|----------|--------|---------|-----|
| 15.2% | 14.7% | - 3% | 15.10% | N/A | |

Retail trade jobs

DATA SOURCE: AMERICAN COMMUNITY SURVEY

| 2016 | 2017 | % CHANGE | STATE | HP 2020 | N/A |
|-------|-------|----------|--------|---------|-----|
| 12.6% | 13.1% | +4% | 11.20% | N/A | |

Poverty

Poverty rate

DATA SOURCE: AMERICAN COMMUNITY SURVEY

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|--------|--------|----------|--------|---------|---------------------------|
| 14.30% | 12.70% | -11.20% | 13.90% | N/A | |

The poverty rate which slightly decreased from 14.7% in 2009 and 14.3% in 2015 showed no significant difference until the rate dropped to 12.7% in 2017.

Foreign born/non-citizen poverty rate

DATA SOURCE: AMERICAN COMMUNITY SURVEY

| 2012 | 2017 | % CHANGE | STATE | HP 2020 | WORSENE |
|--------|--------|----------|--------|---------|---------|
| 26.60% | 31.90% | +19.9% | 23.30% | N/A | |

The poverty rate for foreign born/non-citizens increased from 10.3% in 2007 and 26.6% in 2012 to 31.9% in 2017.

Akron children eligible for free lunch

DATA SOURCE: OHIO DEPARTMENT OF EDUCATION

| 2015 | 2018 | % CHANGE | STATE | HP 2020 | WORSENE |
|--------|--------|----------|-------|---------|---------|
| 81.80% | 83.90% | +2.6 | N/A | N/A | |

The percentage of children eligible for free lunch in Akron increased from 81.8% in 2015 to 83.9% in 2018.

Suburban children eligible for free lunch

DATA SOURCE: OHIO DEPARTMENT OF EDUCATION

| 2015 | 2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|--------|--------|----------|-------|---------|----------|
| 28.90% | 26.50% | -8.30% | N/A | N/A | |

The percentage of children eligible for free lunch in the suburbs decreased from 28.9% in 2015 to 26.5% in 2018.

Children in poverty

DATA SOURCE: AMERICAN COMMUNITY SURVEY

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | IMPROVED |
|--------|--------|----------|--------|---------|----------|
| 21.60% | 18.10% | -16.20% | 20.10% | N/A | |

The percentage of children in poverty decreased from 21.60% in 2015 to 18.10% in 2017.

Percent receiving food stamps

DATA SOURCE: AMERICAN COMMUNITY SURVEY

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|--------|--------|----------|--------|---------|---------------------------|
| 14.20% | 15.00% | +5.6% | 13.20% | N/A | |

The percentage of individuals that receive food stamps showed little to no significant difference by slightly increasing from 14.2% in 2015 to 15.0% in 2017.

Female head of household poverty rate

DATA SOURCE: AMERICAN COMMUNITY SURVEY

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | IMPROVED |
|--------|--------|----------|--------|---------|----------|
| 30.60% | 26.90% | -12.1% | 29.30% | N/A | |

The poverty rate with a female as the head of the household has decreased from 32.0% in 2009 and 30.6% in 2015 to 26.9% in 2017.

Average wages

DATA SOURCE: BUREAU OF LABOR STATISTICS

| 2016 | 2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|----------|----------|----------|----------|---------|----------|
| \$47,303 | \$47,762 | +1% | \$48,220 | N/A | |

The average wages increased from \$41,571 in 2011 and \$47,303 in 2016 to \$47,762 in 2018.

Percent of InfoLine (211) calls asking about utility payment assistance

DATA SOURCE: INFOLINE

| 2015 | 2019 | % CHANGE | STATE | HP 2020 | IMPROVED |
|--------|--------|----------|-------|---------|----------|
| 26.20% | 21.00% | -19.3% | N/A | N/A | |

The percent of InfoLine calls asking about utility payment assistance has decreased from 26.02% in 2015 to 21.0% in 2019.

Community Safety

Violent crime rate per 100,000 residents

DATA SOURCE: OIBRS

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | WORSENE |
|-------|-------|----------|-------|---------|---------|
| 280.5 | 327.4 | +16.7% | N/A | N/A | |

The violent crime rate is described as the number of reported crimes in the community divided the population. The violent crime rate per 100,000 increased from 280.50 in 2015 to 327.40 in 2017.

Murder per 100,000 residents

DATA SOURCE: OIBRS

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | WORSENE |
|------|------|----------|-------|---------|---------|
| 6.8 | 9.4 | +38.2% | N/A | 5.5 | |

The Summit County murder rate that has been calculated per 100,000 residents increased from 6.80 in 2015 to 9.40 in 2017.

Rape per 100,000 residents

DATA SOURCE: OIBRS

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | WORSENER |
|------|------|----------|-------|---------|----------|
| 45.6 | 59.1 | +29.6% | N/A | N/A | |

The rate of rape per 100,000 residents in Summit County has increased from 45.65 in 2015 to 59.1 in 2017.

Robbery per 100,000 residents

DATA SOURCE: OIBRS

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | IMPROVED |
|------|------|----------|-------|---------|----------|
| 89.7 | 86.7 | -3.3% | N/A | N/A | |

The robbery rate per 100,000 in Summit County has decreased from 89.7 in 2015 to 86.7 in 2017.

Aggravated assault per 100,000 residents

DATA SOURCE: OIBRS

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | WORSENER |
|-------|-------|----------|-------|---------|----------|
| 138.4 | 172.2 | +24.4% | N/A | N/A | |

The rate of aggravated assault per 100,000 in Summit County increased from 138.40 in 2015 to 172.20 in 2017.

Property crime per 100,000 residents

DATA SOURCE: OIBRS

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | IMPROVED |
|---------|---------|----------|-------|---------|----------|
| 2,836.9 | 2,756.3 | -2.8% | N/A | N/A | |

The property crime rate per 100,000 residents decreased from 2,836.90 in 2015 to 2,756.30 in 2017.

Burglary per 100,000 residents

DATA SOURCE: OIBRS

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | IMPROVED |
|--------|-------|----------|-------|---------|----------|
| 670.00 | 603.1 | -10.0% | N/A | N/A | |

The burglary rate per 100,000 residents decreased from 670 in 2015 to 603.10 in 2017.

Larceny theft per 100,000 residents

DATA SOURCE: OIBRS

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | IMPROVED |
|----------|----------|----------|-------|---------|----------|
| 1,991.30 | 1,946.10 | -2.3% | N/A | N/A | |

The larceny theft rate per 100,000 residents decreased from 1,991.30 in 2015 to 1,946.10 in 2017.

Motor vehicle theft per 100,000 residents

DATA SOURCE: OIBRS

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | WORSENE |
|-------|-------|----------|-------|---------|---------|
| 156.3 | 181.8 | +16.3% | N/A | N/A | |

The motor vehicle theft per 100,000 residents increased from 156.3 in 2015 to 181.8 in 2017.

Arson per 100,000 residents

DATA SOURCE: OIBRS

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | WORSENE |
|------|------|----------|-------|---------|---------|
| 19.4 | 24.8 | +27.8% | N/A | N/A | |

The arson rate in Summit County per 100,000 residents increased from 19.4 in 2015 to 24.8 in 2017.

New filings for domestic violence civil protection orders per 1,000 residents

DATA SOURCE: SUPREME COURT OF OHIO

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | N/A |
|-------|-------|----------|-------|---------|-----|
| 208.9 | 202.8 | -2.9% | N/A | N/A | |

The new domestic violence civil protection order filings per 1,000 residents decreased from 208.9 in 2015 to 202.8 in 2018.

Injury related deaths per 100,000 residents

DATA SOURCE: SUMMIT COUNTY VITAL STATISTICS

| 2015 | 2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|------|------|----------|-------|---------|----------|
| 81.4 | 60.7 | -25.4% | 70.8 | 53.7 | |

The injury related deaths decreased from 81.4 in 2015 to 60.7 in 2018.

Homicides

DATA SOURCE: SUMMIT COUNTY VITAL STATISTICS

| 2015 | 2018 | % CHANGE | STATE | HP 2020 | WORSENER |
|------|------|----------|-------|---------|----------|
| 5.5 | 7.3 | +32.7 | 8.9 | 5.5 | |

The average number of homicides in Summit County increased from 4.6 homicides in 2010 and 5.5 homicides in 2015 to 7.3 homicides in 2018.

Violence related ER visits age 65+ per 100,000

DATA SOURCE: EPICENTER

| 2014 - 2018 | % CHANGE | STATE | HP 2020 | N/A |
|-------------|----------|-------|---------|-----|
| 34.4 | N/A | 47.5 | N/A | |

Violence related ER visits per 100,000 for adults that are age 65 and older had an average of 34.4 in between the years of 2014 to 2018.

CIT training for officers

DATA SOURCE: COUNTY OF SUMMIT ADM BOARD

| 2015 | 2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|------|--------|----------|-------|---------|----------|
| 648 | 727.0% | +12.2% | N/A | N/A | |

The amount of officers that have been CIT trained increased from 648 in 2015 to 727 in 2018.

Fall-related ER visits per 1,000 seniors

DATA SOURCE: EPICENTER

| 2014 | 2018 | % CHANGE | STATE | HP 2020 | WORSENER |
|------|------|----------|-------|---------|----------|
| 47.8 | 82.4 | N/A | 66.9 | 47.11 | |

Fall-related ER visits have continued to increase for senior citizens in Summit County. The fall-related ER visits per 1,000 seniors increased from an average rate of 47.8 visits in 2014 to 82.4 visits in 2018.

Children in need of protective services per 1,000 children

DATA SOURCE: SUMMIT COUNTY CHILDRENS SERVICES

| 2015 | 2018 | % CHANGE | STATE | HP 2020 | WORSENER |
|------|------|----------|-------|---------|----------|
| 18.5 | 18.7 | +1.1% | N/A | N/A | |

The rate of children per 1,000 that are in need of social services in Summit County has increased from 18.1 in 2010 and 18.5 in 2015 to 18.7 in 2018.

Transportation

Unlinked passenger trips for METRO Regional Transit Authority per 1,000 population in service area

DATA SOURCE: US DEPARTMENT OF TRANSPORTATION

| 2014 | 2017 | % CHANGE | STATE | HP 2020 | WORSENER |
|--------|---------|----------|-------|---------|----------|
| 10,074 | 9515.0% | -5.50% | N/A | N/A | |

The METRO Regional transit unlinked passenger trips per 1,000 decreased from 10,074 trips in 2014 to 9,515 trips in 2017.

Use of public transportation to work

DATA SOURCE: AMERICAN COMMUNITY SURVEY

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | WORSENER |
|-------|------|----------|-------|---------|----------|
| 2.10% | 1.4% | -33.30% | 1.60% | N/A | |

The percentage of people that use public transportation to get to work and home from work decreased from 2.1% in 2015 to 1.4% in 2017.

Commute times: Percent travelling an average of 45 minutes or more to work

DATA SOURCE: AMERICAN COMMUNITY SURVEY

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|--------|-------|----------|--------|---------|---------------------------|
| 11.00% | 10.3% | -6.40% | 11.40% | N/A | |

The percentage of people that travel an average of 45 minutes or more to work slightly increased from 10.6% in 2009 to 11.0% in 2015, and then slightly decreased from 11.0% in 2015 down to 10.3% in 2017. This difference in percentage is not a statistically significant difference.

Housing

Renter Housing Affordability

DATA SOURCE: AMERICAN COMMUNITY SURVEY

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|--------|-------|----------|--------|---------|---------------------------|
| 43.30% | 43.3% | 0.00% | 44.40% | N/A | |

Percentage of renters that are paying more than 30% of income on housing decreased from 52.7% in 2011 to 43.3% in 2015 and 2017. There was no statistically significant difference found from the year 2015 to 2017.

Owner housing affordability (housing units with a mortgage)

DATA SOURCE: AMERICAN COMMUNITY SURVEY

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | IMPROVED |
|--------|-------|----------|--------|---------|----------|
| 18.90% | 17.6% | -6.90% | 20.60% | N/A | |

Percentage of owners that are paying more than 30% of income on housing decreased from 24.4% in 2011 and 18.9% in 2015 to 17.6% in 2017.

Rent for a two-bedroom apartment

DATA SOURCE: NATIONAL LOW-INCOME HOUSING COALITION

| 2016 | 2018 | % CHANGE | STATE | HP 2020 | N/A |
|-------|-------|----------|-------|---------|-----|
| \$750 | \$810 | +8% | \$818 | N/A | |

The rent for a two bedroom apartment in Summit County increased from \$750 in 2016 to \$810 in 2018.

Hourly wage needed to afford a two-bedroom apartment

DATA SOURCE: NATIONAL LOW-INCOME HOUSING COALITION

| 2016 | 2018 | % CHANGE | STATE | HP 2020 | N/A |
|---------|---------|----------|---------|---------|-----|
| \$14.42 | \$15.73 | +9.1% | \$15.73 | N/A | |

The hourly wage that is need to afford a 2 bedroom apartment in Summit County increased from \$14.42 in 2016 to \$15.73 in 2018.

Average hourly wage of renters

DATA SOURCE: NATIONAL LOW-INCOME HOUSING COALITION

| 2016 | 2018 | % CHANGE | STATE | HP 2020 | N/A |
|---------|---------|----------|---------|---------|-----|
| \$11.26 | \$13.92 | +23.6 | \$13.92 | N/A | |

The average renter hourly wage increased from \$11.26 in 2016 and \$13.92 in 2018.

Rent affordability at average renter wage

DATA SOURCE: NATIONAL LOW-INCOME HOUSING COALITION

| 2016 | 2018 | % CHANGE | STATE | HP 2020 | N/A |
|-------|-------|----------|-------|---------|-----|
| \$586 | \$701 | +19.6% | \$724 | N/A | |

The affordable rent at average renter wage increased from \$586 in 2016 to \$701 in 2018.

Number of full-time renter wage jobs needed to afford average rent

DATA SOURCE: NATIONAL LOW-INCOME HOUSING COALITION

| 2016 | 2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|------|------|----------|-------|---------|----------|
| 1.3 | 1.15 | -11.50% | 1.45 | N/A | |

The average number of full-time jobs that are needed to afford average rent in Summit County decreased from 1.3 jobs to 1.15 jobs.

Family Structure & Social Connectivity

Children in single-parent households

DATA SOURCE: AMERICAN COMMUNITY SURVEY

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | WORSENE |
|--------|-------|----------|-------|---------|---------|
| 35.70% | 39.5% | +10.6% | 27.0% | N/A | |

The percentage of children in Summit County that are in single parent households increased from 31.2% in 2019 and 35.7% in 2015 to 39.5% in 2017.

Number of seniors 65+ years of age enrolled in PASSPORT, Assisted Living and/or MyCare

DATA SOURCE: DIRECTION HOME AREA AGENCY ON AGING

| 2014 | 2018 | % CHANGE | STATE | HP 2020 | N/A |
|-------|------|----------|-------|---------|-----|
| 3.00% | 4.7% | +55.7% | N/A | N/A | |

The percentage of seniors that are age 65 and older that are enrolled in PASSPORT, Assisted Living and/or MyCare increased from 3% in 2014 to 4.7% in 2018.

Residents without internet access

DATA SOURCE: AMERICAN COMMUNITY SURVEY

| 2015 | 2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|--------|-------|----------|--------|---------|----------|
| 18.40% | 13.1% | -28.80% | 22.90% | N/A | |

The percentage of Summit County residents that are without internet access has decreased from 22.6% in 2013 and 18.4% in 2015 to 13.1% in 2018.

PHYSICAL ENVIRONMENT

Housing

Percent of housing in below average or worse condition

DATA SOURCE: SUMMIT COUNTY FISCAL OFFICE PARCEL DATA

| 2010 | 2019 | % CHANGE | STATE | HP 2020 | IMPROVED |
|-------|------|----------|-------|---------|----------|
| 6.62% | 6.2% | -4.90% | N/A | N/A | |

The percentage of Summit County housing that is in below average or worse condition decreased from 6.62% in 2010 and 6.52% in 2016 to 6.20% in 2019.

High Quality Standard Inspection - Above Average Rating

DATA SOURCE: SUMMIT COUNTY FISCAL OFFICE

| 2016 | 2019 | % CHANGE | STATE | HP 2020 | WORSENER |
|-------|-------|----------|-------|---------|----------|
| 24.5% | 22.5% | -8.10% | N/A | N/A | |

The percentage of houses that scored above average during the quality standard inspection decreased from 24.5% in 2016 to 22.5% in 2019.

High Quality Standard Inspection - Average Rating

DATA SOURCE: SUMMIT COUNTY FISCAL OFFICE

| 2016 | 2019 | % CHANGE | STATE | HP 2020 | IMPROVED |
|--------|-------|----------|-------|---------|----------|
| 69.00% | 71.3% | 3.30% | N/A | N/A | |

The percentage of houses that scored an average during the quality standard inspection increased from 69.0% in 2016 to 71.3% in 2019.

Average age of housing in low income census tracts (years)

DATA SOURCE: SUMMIT COUNTY FISCAL OFFICE

| 2016 | 2019 | % CHANGE | STATE | HP 2020 | WORSENER |
|------|------|----------|-------|---------|----------|
| 81 | 86 | 6.20% | N/A | N/A | |

The average age of housing in low income census tracts increased from 81 years in 2016 to 86 years in 2019.

Percentage of owner-occupied vs rental housing (Owned %)

DATA SOURCE: AMERICAN COMMUNITY SURVEY

| 2010 | 2017 | % CHANGE | STATE | HP 2020 | IMPROVED |
|--------|--------|----------|--------|---------|----------|
| 69.10% | 65.60% | 1.10% | 65.80% | N/A | |

The percentage of owner-occupied vs. rental housing has increased from 64.9% in 2015 to 65.6% in 2017.

Lead Data: Summit County children testing positive for lead (blood; per 1,000 children)

DATA SOURCE: OHIO DEPARTMENT OF HEALTH LEAD DATABASE

| 2012 | 2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|-------|-------|----------|-------|---------|----------|
| 3.80% | 2.20% | 26.70% | 2.29% | 2.5% | |

The percentage of Summit County children per 1,000 that are testing positive for lead decreased from 3.8% in 2012 and 3% in 2015 to 2.2% in 2018.

Lead Data: Number of lead abatements

DATA SOURCE: SUMMIT COUNTY PUBLIC HEALTH DEPARTMENT, CITY OF AKRON

| 2010 | 2019 | % CHANGE | STATE | HP 2020 | IMPROVED |
|-------|--------|----------|-------|---------|----------|
| 95.00 | 207.00 | 135.20% | N/A | N/A | |

The number of lead abatements rose from 95 abatements in 2010 to 207 abatements in 2018.

Lead Data: % of housing built before 1978

DATA SOURCE: OHIO DEPARTMENT OF HEALTH LEAD DATABASE

| 2016 | 2019 | % CHANGE | STATE | HP 2020 | WORSENE |
|-------|--------|----------|--------|---------|---------|
| 72.8% | 76.60% | -5.20% | 75.88% | N/A | |

The percentage of housing built before 1978 in Summit County increased from 72.8% in 2016 to 76.6% in 2019.

Total Homelessness Rate (per 1,000 residents)

DATA SOURCE: OHIO BALANCE OF STATE CONTINUUM OF CARE

| 2011 | 2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|------|------|----------|-------|---------|----------|
| 1.58 | 1.08 | -22.60% | N/A | N/A | |

The total homelessness rate per 1,000 Summit County residents decreased from 1.58 in 2011 and 1.40 in 2015 to 1.08 in 2018.

Rental Vacancy Rate

DATA SOURCE: AMERICAN COMMUNITY SURVEY

| 2011 | 2017 | % CHANGE | STATE | HP 2020 | IMPROVED |
|-------|------|----------|-------|---------|----------|
| 10.7% | 3.0% | 60.00% | 5.6% | N/A | |

The rate of rental vacancies by percent in Summit County decreased from 10.7% in 2011 and 7.5% in 2015 to 3% in 2017.

Number of Abandoned or Vacant Homes

DATA SOURCE: HUD AGGREGATED USPS ADMINISTRATIVE DATA ON ADDRESS VACANCIES

| 2015 | 2019 | % CHANGE | STATE | HP 2020 | IMPROVED |
|-------|-------|----------|-------|---------|----------|
| 4.30% | 3.90% | -9.30% | N/A | N/A | |

Percentage of abandoned or vacant homes in Summit County decreased from 4.3% in 2015 to 3.9% in 2019.

Air Quality

Poor Air Quality Index Days

DATA SOURCE: SUMMIT COUNTY PUBLIC HEALTH AIR QUALITY MONITORING

| 2010 | 2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|------|------|----------|-------|---------|----------|
| 18 | 1 | -94.4% | N/A | N/A | |

Number of days where the air quality is considered to be unhealthy for sensitive groups.

Radon: Percent of tested properties that tested above 4pCL/l

DATA SOURCE: SUMMIT COUNTY PUBLIC HEALTH

| 1988 - 16 | 1988 - 18 | % CHANGE | STATE | HP 2020 | N/A |
|-----------|-----------|----------|-------|---------|-----|
| 34.0% | 34.0% | 0.00% | N/A | N/A | |

This long-term aggregated value expectedly remains unchanged, as there is a large overlap between the compared years of data. Additionally, we would not expect significant change in radon levels in the bedrock and soil over such a short time period.

Radon: Mitigation jobs completed per year

DATA SOURCE: SUMMIT COUNTY PUBLIC HEALTH

| 2015 | 2018 | % CHANGE | STATE | HP 2020 | N/A |
|------|------|----------|-------|---------|-----|
| 426 | 482 | +13.1% | N/A | N/A | |

Because the amount of radon present in the bedrock and soil does not significantly change over time, we consider increases in detection and mitigation to be improvements.

Indoor air (smoking): Public space violations/ investigations

DATA SOURCE: SUMMIT COUNTY PUBLIC HEALTH

| 2015 | 2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|------|------|----------|-------|---------|----------|
| 141 | 13 | -90.80% | N/A | N/A | |

Water

Percent of residences located in flood plain

DATA SOURCE: SUMMIT COUNTY GIS OPEN DATA PORTAL/ FISCAL OFFICE RESIDENTIAL PARCEL DATABASE

| 2016 | 2019 | % CHANGE | STATE | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|-------|-------|----------|-------|---------|---------------------------|
| 1.20% | 1.00% | -16.70% | N/A | N/A | |

Defined as the percent of residential parcels with their centroid inside a FEMA flood plain. The codes from the data used here include "A" (Areas with a 1% annual chance of flooding and a 26% chance of flooding over the life of a 30-year mortgage) and "AE" (The base floodplain where base flood elevations are provided).

Septic system failures

DATA SOURCE: SUMMIT COUNTY PUBLIC HEALTH

| 2015 | 2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|--------|-------|----------|-------|---------|----------|
| 15.20% | 9.70% | -36.00% | N/A | N/A | |

Lead in water

DATA SOURCE: CONSUMER CONFIDENCE REPORTS FROM WATER SUPPLIERS SERVING SUMMIT COUNTY

| 2010 | 2017 | % CHANGE | STATE | HP 2020 | N/A |
|--------------|--------------|----------|-------|---------|-----|
| ND - 9.1 ppb | ND - 3.7 ppb | N/A | N/A | N/A | |

Lead levels found in Summit County water sources in 2017 ranged from "not detected" (ND) to 3.7 parts per billion.

Food Access

Number of meals distributed to those in need

DATA SOURCE: AKRON CANTON REGIONAL FOODBANK

| 2015 | 2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|-----------|-----------|----------|-------|---------|----------|
| 8,793,209 | 9,649,801 | +9.7% | N/A | N/A | |

The number of meals that were distributed to those in need in Summit County increased from 6,698,708 meals in 2010 and 8,793,209 meals in 2015 to 9,649,801 meals in 2018.

Number of grocery stores

DATA SOURCE: ESRI

| 2014 | 2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|------|------|----------|-------|---------|----------|
| 85 | 90 | +5.9% | N/A | N/A | |

Number of retail grocery stores in Summit County according to the Summit Food Coalition categories increased from 84 stores in 2007 and 85 stores in 2014 to 90 stores in 2018.

Number of convenience stores

DATA SOURCE: ESRI

| 2014 | 2018 | % CHANGE | STATE | HP 2020 | N/A |
|------|------|----------|-------|---------|-----|
| 54 | 46 | -14.8% | N/A | N/A | |

Number of retail convenience stores in Summit County according to the Summit Food Coalition categories decreased from 54 stores in 2014 to 46 stores in 2018.

Number of speciality stores

DATA SOURCE: ESRI

| 2014 | 2018 | % CHANGE | STATE | HP 2020 | N/A |
|------|------|----------|-------|---------|-----|
| 31 | 20 | -35.5% | N/A | N/A | |

The number of specialty stores in Summit County according to the Summit Food Coalition categories decreased from 37 stores in 2007 and 31 stores in 2014 to 20 stores in 2018.

Number of gas stations with convenience

DATA SOURCE: ESRI

| 2014 | 2018 | % CHANGE | STATE | HP 2020 | N/A |
|------|------|----------|-------|---------|-----|
| 146 | 134 | -8.2% | N/A | N/A | |

The number of gas stations with convenience stores in Summit County according to the Summit Food Coalition categories decreased from 146 stores in 2014 to 134 stores in 2018.

Number of warehouse/supercenters

DATA SOURCE: ESRI

| 2014 | 2018 | % CHANGE | STATE | HP 2020 | N/A |
|------|------|----------|-------|---------|-----|
| 6 | 4 | -33.3% | N/A | N/A | |

The number of warehouses/supercenters in Summit County according to the Summit Food Coalition categories decreased from 6 stores in 2014 to 4 stores in 2018.

Percent of population living in a food desert

DATA SOURCE: ESRI, SUMMIT COUNTY PUBLIC HEALTH, AMERICAN COMMUNITY SURVEY

| 2015 | 2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|--------|-------|----------|-------|---------|----------|
| 11.90% | 8.70% | -27.1% | N/A | N/A | |

The percentage of the population in Summit County that is currently living in a food desert decreased from 11.9% in 2015 to 8.7% in 2018.

Community gardens

DATA SOURCE: SUMMIT COUNTY PUBLIC HEALTH

| 2016 | 2019 | % CHANGE | STATE | HP 2020 | IMPROVED |
|-------|------|----------|-------|---------|----------|
| 80.00 | 81 | +1.3% | N/A | N/A | |

The number of community gardens throughout Summit County has increased from 80 gardens in 2016 with 65 of those in Akron to 81 gardens total in 2019 with 66 of those in Akron.

Transportation

Percent of labor force that drives alone to work

DATA SOURCE: AMERICAN COMMUNITY SURVEY

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | WORSENER |
|--------|------|----------|--------|---------|----------|
| 86.00% | 85% | -1.2% | 83.00% | N/A | |

The percentage of the labor force that drives alone to work in Summit County decreased from 88% in 2010 and 86% in 2015 to 85% in 2017.

Public transit usage/access

DATA SOURCE: AMERICAN COMMUNITY SURVEY

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | WORSENER |
|-------|-------|----------|-------|---------|----------|
| 2.10% | 1.40% | -33.3% | 1.50% | N/A | |

The percentage of Summit County residents that use public transit and have access to it decreased from 2.1% in 2015 to 1.4% in 2017.

Vehicle miles travelled (kDVMT)

DATA SOURCE: OHIO DEPARTMENT OF TRANSPORTATION

| 2014 | 2017 | % CHANGE | STATE | HP 2020 | IMPROVED |
|-------|-------|----------|-------|---------|----------|
| 16016 | 15985 | -0.2% | N/A | N/A | |

Based on the Ohio Department of Transportation data, the vehicle miles traveled in Summit County decreased from 16,016 miles in 2014 to 15,985 miles in 2017.

Vehicle miles travelled (daily miles per capita) per 1,000 population

DATA SOURCE: OHIO DEPARTMENT OF TRANSPORTATION, AMERICAN COMMUNITY SURVEY

| 2014 | 2017 | % CHANGE | STATE | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|------|------|----------|--------|---------|---------------------------|
| 29.5 | 29.5 | -0.1% | 28.02% | N/A | |

The vehicle miles traveled daily per a population of 1,000 had little to no significant difference showing a slight increase from 29.1 miles in 2010 to 29.5 miles in 2014 and 2017.

Number of abandoned commercial/ industrial buildings

DATA SOURCE: USPS, DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

| 2016 | 2019 | % CHANGE | STATE | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|--------|------|----------|-------|---------|---------------------------|
| 38.50% | 38% | -1.30% | N/A | N/A | |

The number of abandoned commercial/industrial buildings in Summit County increased from 24.5% in 2011 to 38.5% in 2016. The percentage showed little to no significant difference by slightly decreasing from 38.5% in 2016 to 38.0% in 2019.

Land Use

Number of current retail liquor licenses

DATA SOURCE: OHIO DEPARTMENT OF COMMERCE

| 2016 | 2019 | % CHANGE | STATE | HP 2020 | N/A |
|------|------|----------|-------|---------|-----|
| 2891 | 2958 | +2.3% | N/A | N/A | |

The number of retail liquor licenses in Summit County increased from 2,891 licenses in 2016 to 2,958 licenses in 2019.

Carry-out locations

DATA SOURCE: OHIO DEPARTMENT OF COMMERCE

| 2016 | 2019 | % CHANGE | STATE | HP 2020 | N/A |
|------|------|----------|-------|---------|-----|
| 416 | 896 | +115.4% | N/A | N/A | |

The number of carry-out locations in Summit County have doubled since the last CHA, locations increased from 416 in 2016 to 896 locations in 2019.

Restaurants, bars and night clubs

DATA SOURCE: OHIO DEPARTMENT OF COMMERCE

| 2016 | 2019 | % CHANGE | STATE | HP 2020 | N/A |
|------|------|----------|-------|---------|-----|
| 600 | 1247 | +107.8% | N/A | N/A | |

The number of restaurants, bars, and nightclubs in Summit County have increased from 600 in 2016 to 1,247 in 2019.

Locations with Sunday sales

DATA SOURCE: OHIO DEPARTMENT OF COMMERCE

| 2016 | 2019 | % CHANGE | STATE | HP 2020 | N/A |
|------|------|----------|-------|---------|-----|
| 594 | 621 | +4.5% | N/A | N/A | |

The number of locations with Sunday sales has increased from 594 locations in 2016 to 621 locations in 2019.

Tobacco: primary retail outlets

DATA SOURCE: SUMMIT COUNTY FISCAL OFFICE

| 2014 | 2019 | % CHANGE | STATE | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|------|------|----------|-------|---------|---------------------------|
| 18 | 18 | 0.00% | N/A | N/A | |

There was no significant difference found when gathering the data from the 18 primary retail outlets found in Summit County between the years of 2014 and 2019.

Tobacco: current tobacco licenses

DATA SOURCE: SUMMIT COUNTY FISCAL OFFICE

| 2015 | 2019 | % CHANGE | STATE | HP 2020 | N/A |
|------|------|----------|-------|---------|-----|
| 474 | 460 | -3.00% | N/A | N/A | |

The amount of tobacco licenses in Summit County decreased from 474 licenses in 2015 to 460 licenses in 2019.

Stores that sell e-cigarettes/vapor products

DATA SOURCE: GOOGLE MAPS, GIS AND SC EPIDEMIOLOGY

| 2016 | 2019 | % CHANGE | STATE | HP 2020 | WORSENER |
|------|------|----------|-------|---------|----------|
| 11 | 29 | +163.6% | N/A | N/A | |

The initial growth of e-cigarettes/vapor products hit Ohio by storm causing the number of stores that sell those products to double. The number of stores that sell e-cigarettes/vapor products in Summit County increased from 11 stores in 2016 to 29 stores in 2019.

Miles of trails/bike paths

DATA SOURCE: SUMMIT COUNTY METROPARKS

| 2016 | 2019 | % CHANGE | STATE | HP 2020 | IMPROVED |
|------|-------|----------|-------|---------|----------|
| 88.7 | 117.4 | +42.5% | N/A | N/A | |

The miles of bike and hike trails in Summit County increased from 88.7 miles in 2016 to 117.4 miles in 2019. The trails provide safe passageways for cyclists and pedestrians to get to their destinations.

Recreation facilities per 100,000 residents

DATA SOURCE: ESRI

| 2014 | 2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|------|------|----------|-------|---------|----------|
| 9.6 | 11.8 | +42.5% | N/A | N/A | |

The number of recreation and fitness facilities per 100,000 residents increased from 9.6 facilities in 2014 to 11.8 facilities in 2018.

Recycling rate, with yard waste

DATA SOURCE: REWORKS SURVEY

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|--------|--------|----------|-------|---------|---------------------------|
| 34.70% | 33.20% | -4.30% | N/A | N/A | |

The recycling rate including yard waste for the communities inside of Summit County increased from 30.7% in 2012 to 34.7% in 2015, and the rate slightly decreased from 34.7% in 2015 to 33.2% in 2017. This decrease in percentage is not a statistically significant difference.

Recycling rate, not including yard waste

DATA SOURCE: REWORKS SURVEY

| 2015 | 2017 | % CHANGE | STATE | HP 2020 | IMPROVED |
|--------|--------|----------|-------|---------|----------|
| 13.40% | 14.80% | +10.3 | N/A | N/A | |

The recycling rate not including yard waste for the communities inside of Summit County increased from 11.4% in 2012 and 13.4% in 2015 to 14.8% in 2017.

Industrial pollution (# of brownfield sites)

DATA SOURCE: OHIO EPA

| 2016 | 2019 | % CHANGE | STATE | HP 2020 | IMPROVED |
|------|------|----------|-------|---------|----------|
| 40 | 27 | -32.50% | N/A | N/A | |

Brownfields are abandoned/underutilized commercial or industrial properties contaminated with various hazardous substances. The number of brownfield sites decreased from 40 sites in 2016 to 27 sites in 2019.

HEALTH OUTCOMES

Suicide

Middle School Suicide Attempts, seriously considered suicide (youth)

DATA SOURCE: YOUTH RISK BEHAVIOR SURVEY

| 2013 | 2018 | % CHANGE | STATE | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|-------|-------|----------|-------|---------|---------------------------|
| 13.3% | 13.0% | -2.30% | N/A | N/A | |

The percentage of suicide attempts that occurred in Summit County Middle Schools slightly decreased from 13.3% in 2013 to 13.0% in 2018. This difference in percentage is not a statistically significant difference.

High School Suicide Attempts, seriously considered suicide (youth)

DATA SOURCE: YOUTH RISK BEHAVIOR SURVEY

| 2013 | 2018 | % CHANGE | STATE | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|-------|-------|----------|-------|---------|---------------------------|
| 16.9% | 17.7% | 4.70% | N/A | N/A | |

The percentage of suicide attempts that occurred in Summit County High Schools slightly increased from 16.9% in 2013 to 17.7% in 2018. The increase in percentage is not a statistically significant difference.

Birth Outcomes

Percent of babies born with low birth weight

DATA SOURCE: VITAL STATISTICS

| 2006 - 2010 | 2014 - 2017 | % CHANGE | STATE | HP 2020 | WORSENER |
|-------------|-------------|----------|-------|---------|----------|
| 8.80% | 9.3% | 4.50% | 9.00% | 7.80% | |

Low birth weight is any weight less than 2,500 grams or 5 pounds 8 ounces, and it can cause mental development problems in young children/infants. The percent of Summit County babies that have been born with low birth weight increased from 8.8% in 2010 and 8.9% in 2015 to 9.3% in 2017.

Chronic Disease

Percent of adults with diabetes (type II)

DATA SOURCE: CENTERS FOR DISEASE CONTROL & PREVENTION

| 2010 | 2016 | % CHANGE | STATE | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|-------|------|----------|--------|---------|---------------------------|
| 9.20% | 9.0% | N/A | 11.70% | 7.20% | |

Being overweight or obese increases a person's chances of becoming diabetic. The percentage of adults in Summit County with type II diabetes slightly decreased by 9.2% in 2010 to 9.0% in 2016. The decrease in percentage is not a statistically significant difference.

ER visits for exacerbation (breathing) per 1,000

DATA SOURCE: EPICENTER

| 2014 | 2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|------|------|----------|-------|---------|----------|
| 8 | 6.40 | -19.50% | N/A | N/A | |

The rate of ER visits that involve exacerbation per 1,000 decreased from 8 visits in 2014 to 6.4 visits in 2018.

Nephritis nephrotic syndrome and nephrosis death rate (age-adjusted) per 100,000

DATA SOURCE: OHIO DEPARTMENT OF HEALTH DEATH RECORDS

| 2007-2011 | 2014-2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|-----------|-----------|----------|--------|---------|----------|
| 13.30 | 10.40 | -21.80% | 14.70% | N/A | |

The chronic kidney disease death rate that has been age adjusted per 100,000 increased from 4.2 in 2011 to 8.6 in 2018.

Breast Cancer

DATA SOURCE: OHIO DEPARTMENT OF HEALTH DEATH CERTIFICATES

| 2009-2013 | 2014-2018 | % CHANGE | STATE | HP 2020 | WORSENER |
|-----------|-----------|----------|-------|---------|----------|
| 22.10 | 21.60 | -2.30% | 22.00 | 20.7 | |

The rate of Breast cancer cases per 100,000 decreased to 22.1 cases in 2013 to 21.6 cases in 2018.

Colorectal Cancer Death Rate

DATA SOURCE: OHIO DEPARTMENT OF HEALTH DEATH CERTIFICATES

| 2009-2013 | 2014-2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|-----------|-----------|----------|-------|---------|----------|
| 16.30 | 14.90 | -8.60% | 15.4 | 14.5 | |

The rate of individuals who have died from colorectal cancer decreased from 16.3 in 2013 to 14.9 in 2018.

Lung Disease Death Rate (chronic lower respiratory)

DATA SOURCE: OHIO DEPARTMENT OF HEALTH DEATH CERTIFICATES

| 2009-2013 | 2014-2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|-----------|-----------|----------|-------|---------|----------|
| 51.10 | 46.00 | -10.00% | 48.3 | N/A | |

The death rate of individuals who have died from lung disease decreased from 51.1 in 2013 to 46 in 2018.

Respiratory Cancer Death Rate

DATA SOURCE: OHIO DEPARTMENT OF HEALTH DEATH CERTIFICATES

| 2009-2013 | 2014-2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|-----------|-----------|----------|-------|---------|----------|
| 52.60 | 43.30 | -17.70% | 46.7 | N/A | |

The death rate of individuals who have died from respiratory cancer decreased from 52.6 in 2013 to 43.3 in 2018.

Prostate Cancer

DATA SOURCE: OHIO DEPARTMENT OF HEALTH DEATH CERTIFICATES

| 2009-2013 | 2014-2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|-----------|-----------|----------|-------|---------|----------|
| 20.80 | 19.70 | -5.30% | 19.00 | 21.8 | |

The death rate of individuals who have died from prostate cancer decreased from 20.8 in 2013 to 19.7 in 2018.

Diabetes

DATA SOURCE: COUNTY HEALTH RANKINGS

| 2014 | 2015 | % CHANGE | STATE | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|-------|-------|----------|--------|---------|---------------------------|
| 10.0% | 11.0% | 10.00% | 12.00% | N/A | |

The percentage of Summit County residents that classify as diabetic slightly increased from 10.0% in 2014 to 11.0% in 2015. This difference in percentage is not a statistically significant difference.

Kidney Disease

DATA SOURCE: OHIO BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM

| 2011 | 2017 | % CHANGE | STATE | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|------|-------|----------|-------|---------|---------------------------|
| 3% | 2.90% | -3.30% | 2.90% | 13.3% | |

The percentage of Summit County residents that have kidney disease slightly decreased from 3.0% in 2011 and 2015 to 2.9% in 2017. This decrease in percentage is not a statistically significant difference.

Children with Asthma

DATA SOURCE: YOUTH RISK BEHAVIOR SURVEY

| 2013 | 2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|--------|--------|----------|-------|---------|----------|
| 23.10% | 20.40% | -11.70% | N/A | N/A | |

The percentage of children in Summit County that have asthma slightly decreased from 23.1% in 2013 to 20.4% in 2018. This decrease in percentage is not a statistically significant difference.

Adults with Asthma

DATA SOURCE: OHIO BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM

| 2011 | 2017 | % CHANGE | STATE | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|--------|-------|----------|--------|---------|---------------------------|
| 17.20% | 12.8% | -18.50% | 13.70% | N/A | |

The percentage of Summit County adults with asthma decreased from 17.2% in 2011 and 15.7% in 2015 to 12.8% in 2017. The percentage decrease was seen as not statistically significant.

Adults with COPD

DATA SOURCE: OHIO BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM

| 2011 | 2017 | % CHANGE | STATE | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|------|------|----------|-------|---------|---------------------------|
| 8.7% | 7.4% | -34.50% | 8.30% | N/A | |

The percentage of adults with COPD in Summit County decreased from 8.7% in 2011 to 7.4% in 2017. The percentage decrease was seen as not statistically significant.

High Blood Pressure

DATA SOURCE: OHIO BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM

| 2011 | 2017 | % CHANGE | STATE | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|-------|-------|----------|--------|---------|---------------------------|
| 31.5% | 36.5% | 5.2% | 34.70% | 26.9% | |

The percentage of tested Summit County residents with high blood pressure increased from 31.5% in 2011 and 34.7% in 2015 to 36.5% in 2017. The percentage increase was seen as not statistically significant.

High Cholesterol

DATA SOURCE: OHIO BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM

| 2011 | 2017 | % CHANGE | STATE | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|------|--------|----------|--------|---------|---------------------------|
| 39% | 35.60% | -5.60% | 33.40% | 13.5% | |

The percentage of tested Summit County residents with high cholesterol increased from 33.7% in 2015 to 35.6% in 2017. The percentage increase was seen as not statistically significant.

Heart Disease

DATA SOURCE: OHIO BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM

| 2011 | 2017 | % CHANGE | STATE | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|-------|-------|----------|-------|---------|---------------------------|
| 5.70% | 3.50% | 52.20% | 4.70% | N/A | |

The percentage of Summit County residents who suffer from heart disease increased from 2.3% in 2015 to 3.5% in 2017. The percentage increase was seen as not statistically significant.

Heart Disease Death Rate

DATA SOURCE: OHIO DEPARTMENT OF HEALTH DEATH CERTIFICATES

| 2009-2013 | 2014-2018 | % CHANGE | STATE | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|-----------|-----------|----------|-------|---------|---------------------------|
| 177.5 | 177.4 | -0.10% | 186.2 | 103.4 | |

The death rate of individuals that suffered from heart disease per 100,000 in Summit County decreased from 177.5 in 2013 to 177.4 in 2018. The decrease in rate was seen as not statistically significant.

History of Stroke

DATA SOURCE: OHIO BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM

| 2011 | 2017 | % CHANGE | STATE | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|-------|-------|----------|-------|---------|---------------------------|
| 3.10% | 6.80% | 44.70% | 3.80% | N/A | |

The percentage of Summit County individuals who have ever suffered from a stroke or were told that they had one slightly increased from 3.1% in 2011 and 4.7% in 2015 to 6.8% in 2017. The percentage increase was seen as not statistically significant.

Stroke Death per 100,000

DATA SOURCE: OHIO DEPARTMENT OF HEALTH DEATH CERTIFICATES

| 2009-2013 | 2014-2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|-----------|-----------|----------|-------|---------|----------|
| 41.6 | 39.3 | -5.50% | 41.3 | 34.8 | |

The rate of individuals who have died from a stroke per 100,000 decreased from 41.6 in 2013 to 39.3 in 2018.

Alzheimer's Disease

DATA SOURCE: OHIO DEPARTMENT OF HEALTH DEATH CERTIFICATES

| 2009-2013 | 2014-2018 | % CHANGE | STATE | HP 2020 | WORSENER |
|-----------|-----------|----------|-------|---------|----------|
| 29 | 35.3 | 21.70% | 33.6 | N/A | |

The rate of individuals who have Alzheimer's disease per 100,000 increased from 29 in 2013 to 35.3 in 2018.

Arthritis

DATA SOURCE: OHIO BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM

| 2011 | 2017 | % CHANGE | STATE | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|--------|--------|----------|-------|---------|---------------------------|
| 26.90% | 27.20% | 13.3% | 29.1% | N/A | |

The percentage of tested Summit County residents that have arthritis increased from 24% in 2015 to 27.2% in 2017. The percentage increase was seen as not statistically significant.

Cancer fatality rate (age-adjusted) per 100,00

DATA SOURCE: OHIO DEPARTMENT OF HEALTH DEATH RECORDS

| 2008-2012 | 2014-2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|-----------|-----------|----------|-------|---------|----------|
| 167.30 | 162.20 | -3.0% | 171.3 | 161.4 | |

The rate of individuals who have died from a cancer per 100,000 decreased from 167.3 in 2012 to 162.2 in 2018.

Communicable Disease

Number of people living with HIV/AIDS per 100,000

DATA SOURCE: HIV/AIDS SURVEILLANCE PROGRAM, OHIO DEPARTMENT OF HEALTH

| 2011 | 2017 | % CHANGE | STATE | HP 2020 | WORSENER |
|--------|--------|----------|-------|---------|----------|
| 131.20 | 178.30 | 14.7% | 206.4 | N/A | |

The rate of individuals in Summit County per 100,000 that are living with HIV/AIDS increased from 131.2 in 2011 and 155.4 in 2014 to 178.3 in 2017.

All communicable diseases tracked by SCPH per 100,000

DATA SOURCE: OHIO DISEASE REPORTING SYSTEM

| 2011 | 2018 | % CHANGE | STATE | HP 2020 | WORSENER |
|-------|--------|----------|-------|---------|----------|
| 806.8 | 1301.5 | 34.8% | N/A | N/A | |

The rate of all communicable diseases that are tracked by Summit County Public Health per 100,000 increased from 806.8 in 2011 and 965.4 in 2015 to 1301.5 in 2018.

Influenza and pneumonia deaths per 100,000

DATA SOURCE: OHIO DEPARTMENT OF HEALTH DEATH RECORDS

| 2009-2013 | 2014-2018 | % CHANGE | STATE | HP 2020 | WORSENER |
|-----------|-----------|----------|-------|---------|----------|
| 14.90 | 32.30 | 116.80% | 14.9 | N/A | |

Viral meningitis cases per 100,000

DATA SOURCE: OHIO DISEASE REPORTING SYSTEM

| 2011 | 2018 | % CHANGE | STATE | HP 2020 | WORSENER |
|------|------|----------|-------|---------|----------|
| 18.1 | 6.50 | 41.30% | 4.1 | N/A | |

The rate of viral/meningitis cases in Summit County per 100,000 increased from 4.6 in 2015 to 6.5 in 2018.

Number of cases of vaccine preventable diseases per 100,000

DATA SOURCE: OHIO DISEASE REPORTING SYSTEM

| 2011 | 2018 | % CHANGE | STATE | HP 2020 | WORSENER |
|-------|--------|----------|-------|---------|----------|
| 49.90 | 233.10 | 201.60% | 124.0 | N/A | |

The rate for the number of vaccine preventable disease cases in Summit County per 100,000 increased from 49.9 in 2011 and 77.3 in 2015 to 233.1 in 2018.

Number of enteric disease cases per 100,000

DATA SOURCE: OHIO DISEASE REPORTING SYSTEM

| 2011 | 2018 | % CHANGE | STATE | HP 2020 | WORSENER |
|-------|-------|----------|-------|---------|----------|
| 40.60 | 62.90 | 93.50% | 66.0 | N/A | |

The rate for the number of enteric disease cases in Summit County per 100,000 increased from 32.5 in 2015 to 62.9 in 2018.

Oral Health

The proportion of school age children with untreated dental cavities

DATA SOURCE: OHIO DEPARTMENT OF HEALTH

| 2012 | 2013-2015 | % CHANGE | STATE | HP 2020 | WORSENER |
|-------|-----------|----------|-------|---------|----------|
| 10.0% | 13.10% | 31.00% | N/A | N/A | |

The percentage of school age children that have untreated dental cavities has increased from 10% in 2012 to 13.10% in 2015.

Injury

Motor vehicle accident deaths per 100,000

DATA SOURCE: OHIO DEPARTMENT OF HEALTH DEATH CERTIFICATES

| 2009-2013 | 2014-2018 | % CHANGE | STATE | HP 2020 | IMPROVED |
|-----------|-----------|----------|-------|---------|----------|
| 6.80 | 6.20 | 12.00% | 11.1 | 12.4 | |

The rate of accidental motor vehicle deaths per 100,000 decreased from 6.8 deaths in 2013 to 6.2 deaths in 2018.

Percentage of ED visits due to unintentional injury

DATA SOURCE: EPICENTER

| 2016 | 2018 | % CHANGE | STATE | HP 2020 | WORSENER |
|-------|-------|----------|-------|---------|----------|
| 14.2% | 15.3% | 7.75% | 11.7% | N/A | |

The percentage of ER visits that were due to unintentional injury increased from 14.2% in 2016 to 15.3% in 2018.

Premature Death

Years of potential life lost per 100,000

DATA SOURCE: OHIO DEPARTMENT OF HEALTH DEATH CERTIFICATES

| 2008-2012 | 2016-2018 | % CHANGE | STATE | HP 2020 | WORSENER |
|-----------|-----------|----------|-------|---------|----------|
| 7,484 | 9,050 | 12.00% | 8,500 | N/A | |

The years of potential life lost per 100,000 increased from 7,484 in 2012 and 8,080 in 2015 to 9,050 in 2018.

Suicide rate (youth and adults) per 100,000

DATA SOURCE: OHIO DEPARTMENT OF HEALTH DEATH CERTIFICATES

| 2012 | 2017 | % CHANGE | STATE | HP 2020 | WORSENER |
|-------|-------|----------|-------|---------|----------|
| 13.00 | 16.70 | 4.40% | 14.8 | 10.2 | |

The suicide rate in Summit County with youth and adults per 100,000 increased from 13 in 2012 and 16 in 2015 to 16.7 in 2017.

Female Life Expectancy

DATA SOURCE: OHIO DEPARTMENT OF HEALTH DEATH CERTIFICATES

| 2008-2015 | 2016-2018 | % CHANGE | USA | HP 2020 | NO SIGNIFICANT DIFFERENCE |
|-----------|-----------|----------|------|---------|---------------------------|
| 80.10 | 79.80 | -0.40% | 81.1 | N/A | |

The life expectancy for females has decreased from 80.1 in 2015 to 79.8 in 2018. This decrease is not a statistically significant difference.

Male Life Expectancy

DATA SOURCE: OHIO DEPARTMENT OF HEALTH DEATH CERTIFICATES

| 2008-2015 | 2016-2018 | % CHANGE | STATE | HP 2020 | WORSENER |
|-----------|-----------|----------|-------|---------|----------|
| 75.00 | 74.40 | -0.80% | 76.1 | N/A | |

The life expectancy for males has decreased from 75 in 2015 to 74.4 in 2018.

Child mortality rate per 100,000

DATA SOURCE: CENTERS FOR DISEASE CONTROL & PREVENTION, OHIO DEPT. OF HEALTH

| 2009-2012 | 2014-2017 | % CHANGE | STATE | HP 2020 | IMPROVED |
|-----------|-----------|----------|-------|---------|----------|
| 55.60 | 60.00 | 20.00% | 57.8 | N/A | |

The child mortality rate per 100,000 has increased from 50 in 2013 to 60 in 2017

Infant Mortality

Infant mortality rate per 1,000 live births

DATA SOURCE: VITAL STATISTICS

| 2006-2015 | 2008-2017 | % CHANGE | STATE | HP 2020 | IMPROVED |
|-----------|-----------|----------|-------|---------|----------|
| 7.40 | 7.28 | -1.60% | 7.2 | 6.0 | |

The infant mortality rate is the rate of infant deaths per 1,000 live births. The infant mortality rate has decreased from 7.4 deaths in 2015 to 7.28 deaths in 2017.

Neonatal infant mortality rate (0-28 days)

DATA SOURCE: VITAL STATISTICS

| 2005-2014 | 2017 | % CHANGE | STATE | HP 2020 | IMPROVED |
|-----------|------|----------|-------|---------|----------|
| 5.20 | 4.70 | -9.60% | 5.0 | 4.1 | |

The neonatal infant mortality rate is the rate of infant deaths per 1,000 live births for infants that fall in the category of 0-28 days. The neonatal infant mortality rate has decreased from 5.2 deaths in 2014 to 4.7 deaths in 2017.

Post-neonatal infant mortality rate (28-364 days)

DATA SOURCE: VITAL STATISTICS

| 2005-2014 | 2017 | % CHANGE | STATE | HP 2020 | WORSENE |
|-----------|------|----------|-------|---------|---------|
| 2.10 | 2.70 | 28.6% | 2.2 | 2.0 | |

The post-neonatal infant mortality rate is the rate of infant deaths per 1,000 live births for those case specific infants that pass and are in between the age of 28 days old to 364 days old. The post-neonatal infant mortality rate has increased from 2.1 deaths in 2014 to 2.7 deaths in 2017.

Black infant mortality rate per 1,000 live births

DATA SOURCE: VITAL STATISTICS

| 2006-2015 | 2008-2017 | % CHANGE | STATE | HP 2020 | WORSENE |
|-----------|-----------|----------|-------|---------|---------|
| 11.5 | 13.65 | 18.70% | 15.6 | N/A | |

The black infant mortality rate is the rate of infant deaths per 1,000 live births for African Americans. The black infant mortality rate has decreased from 11.5 deaths in 2015 to 13.65 deaths in 2017.