

Adams County Economic Development Scan

Prepared by Center for Economic Development and Community Resilience, the Voinovich School of
Leadership and Public Service

August 2021

Clara Bone

Christelle Khalaf

Kate Perani

Jake Evans

Laura Davis

Table of Contents

Existing Conditions & Community Trends	2
Population Growth Trends	2
Migration.....	4
Age Distribution.....	5
Educational Attainment.....	6
School Enrollment Trends	8
Quality of Schools.....	11
Household Income Distribution.....	12
Year Housing Structure Built	14
Housing Property Values	15
Rent Distribution	16
Homeownership	17
Housing Units Structure	17
Health Outcomes.....	18
Life Expectancy.....	26
Healthcare Spending	27
Health Insurance	28
Environmental Quality.....	29
Amenity Score	30
Broadband.....	30
Poverty	31
Crime Rates	32
Economic Scan and Workforce Inventory	33
Employment by Industry	33
Labor Force Overview.....	34
Employed Resident Commute Shed	37

Existing Conditions & Community Trends

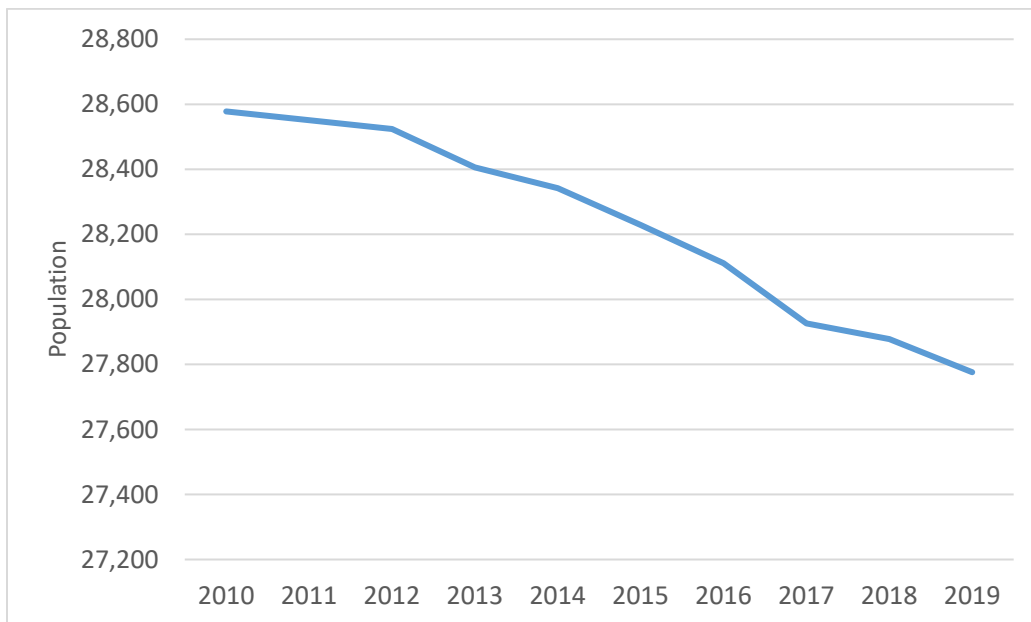
The first task associated with this work involved a demographic and economic scan to compile a solid informational foundation on key economic and demographic descriptors of Adams County.

This section provides the existing population and household trends along with characteristics of Adams County and Ohio, including age, educational attainment, school enrollment, and household incomes.

Population Growth Trends

As shown in Figure 1, the population of Adams County experienced a decrease from 2010 through 2019, shrinking from 28,578 in 2010 to 27,776 in 2019. Figure 2 shows the total percent change in population in Adams County, Ohio, and the United States since 2010. From 2010 to 2019, Adams County experienced a change of -2.81%. However, Ohio and the United States experienced an increase of 1.24% and 6.82%, respectively, over the same period. Figure 3 breaks down the total percent change into annual percent change during 2011 through 2019. This shows that Adams County experienced negative growth every year, while Ohio and the United States experienced positive growth each year.

Figure 1: Adams County Population, 2010-2019¹



¹Source: U.S. Census Bureau, 2010-2019 American Community Survey 5-Year Estimates

Figure 2: Total Percent Population Change, 2010-2019²

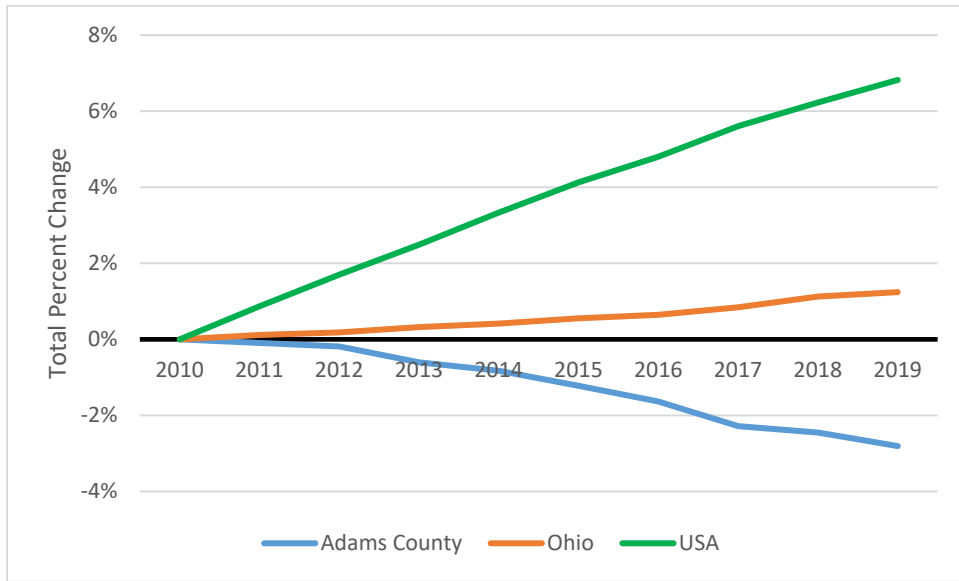
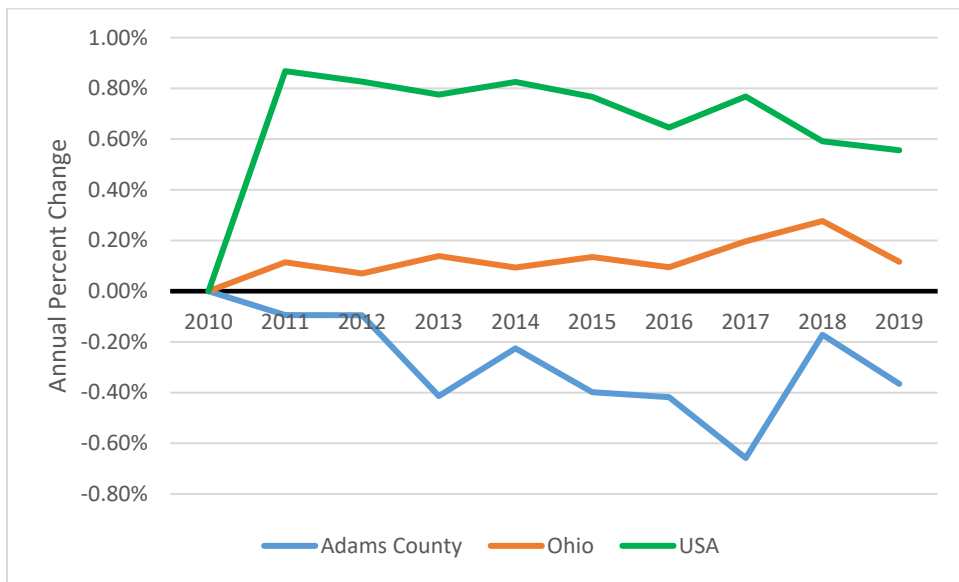


Figure 3: Annual Population Growth, 2011-2019³



² Source: Annual Estimates of the Resident Population: April 1, 2010, to July 1, 2019, U.S. Census Bureau, Population Division

³ Source: Annual Estimates of the Resident Population: April 1, 2011, to July 1, 2019, U.S. Census Bureau, Population Division

Migration

Figures 4 and 5 show the trends in net domestic migration in Adams County and Ohio from 2000 to 2014. Although, in 2014, Adams County experienced a positive net migration and Ohio experienced a negative net migration, Adams County's overall trend has been decreasing, while Ohio's overall trend has been increasing. Adams County experienced a reduction of 87.16% in net migration from 2000 to 2014, while Ohio experienced an increase of 53.60% in net migration.

Figure 4: Net Domestic Migration: Adams County, 2000-2014⁴

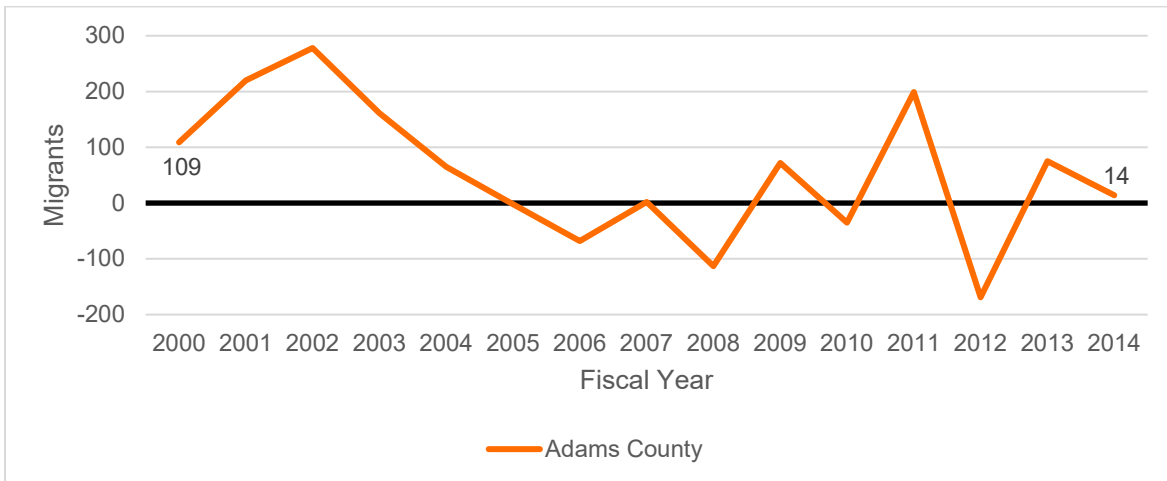
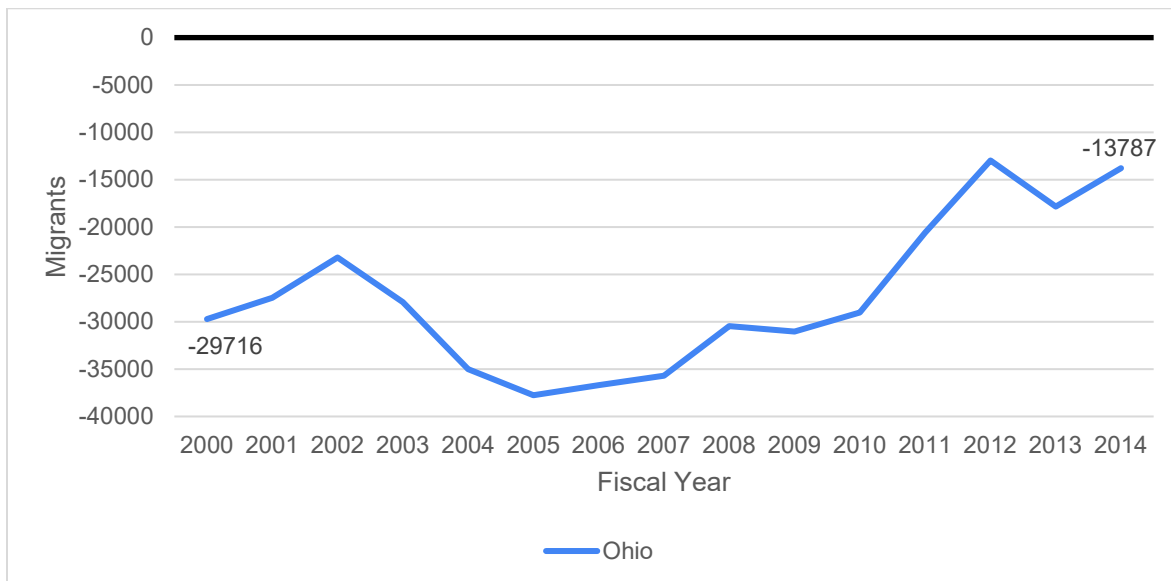


Figure 5: Net Domestic Migration: Ohio, 2000-2014⁵



⁴ Source: County Migration Patterns, Ohio Development Services Agency, Research Office, September 2017.

⁵ Source: County Migration Patterns, Ohio Development Services Agency, Research Office, September 2017.

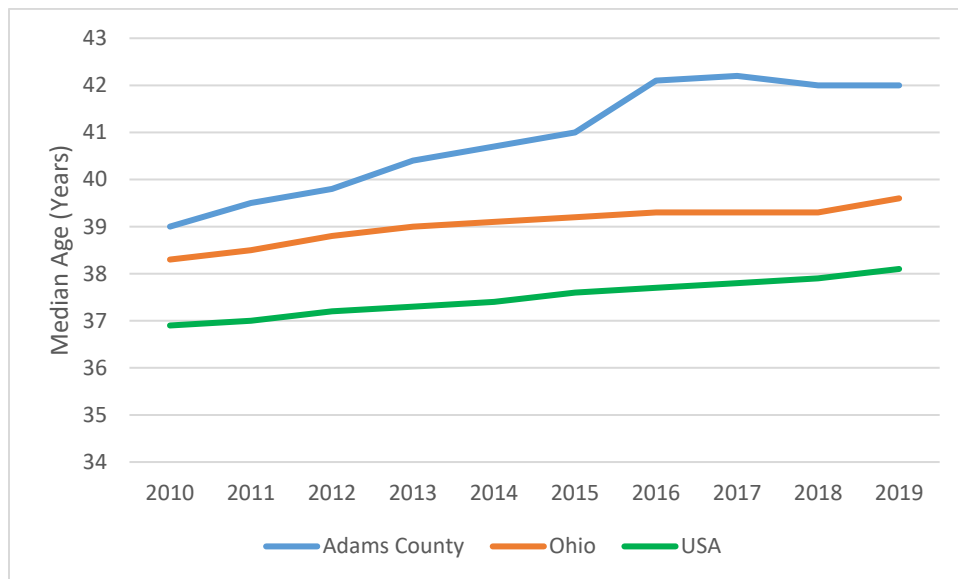
Age Distribution

Figure 6 shows the median age in Adams County, Ohio, and United States from 2010 to 2019. The median age in Adams County has been consistently higher than in Ohio and the United States during this period. Additionally, the median age in Adams County has been increasing at a faster rate than both Ohio and the United States.

As shown in Table 1, 17.5% of the population of Adams County was older than 65 in 2019, compared to 16.7% of Ohio. Likewise, 19.7% of the population of Adams County was younger than 15, compared to 18.4% of Ohio. In contrast, only 10.9% of the population of Adams County is aged 25-34, compared to 13.1% of Ohio. Additionally, from 2010 to 2019, Adams County experienced an increase in population only in ages 55 and over, while Ohio experienced an increase in ages 25-34 in addition to ages 55 and over. Moreover, the median age of Adams County is 42.0, compared to 39.6 in Ohio. Finally, the total working age (people ages 15-65) of Adams County in 2010 was 18,503 and fell to 17,460 in 2019. Adams County's working age population decreased 5.64% from 2010 to 2019, while Ohio experienced a 1.24% decrease. This suggests that not only does Adams County have an aging population, but that they are losing a key demographic in their workforce as young people move away from the county.

Figure 7 shows the distribution of the population in Adams County in all age groups and in both sexes. This population pyramid with a very wide base and a narrow top section indicates that Adams County has a population with both high fertility and death rates. The narrowing middle of the pyramid indicates that the adult labor force is leaving Adams County for more attractive job markets, which is possibly motivated by high persistent unemployment rates shown in Figure 33.

Figure 6: Median Age, 2010-2019⁶



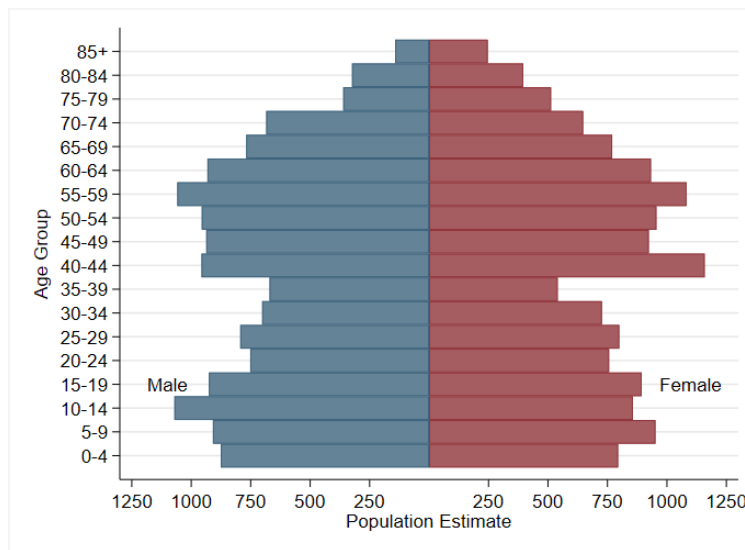
⁶ Source: U.S. Census Bureau, American Community Survey 5-Year Estimates, 2010-2019

Table 1: Age Distribution: Adams County and Ohio, 2010 and 2019

Age Range	2010		2019		Percent Change
	Number	Percent	Number	Percent	
Adams County					
Under 15	5,938	20.9	5,460	19.7	-9.40
15-24	3,552	12.4	3,329	12.0	-2.73
25-34	3,401	11.9	3,023	10.9	-12.50
35-44	3,882	13.6	3,328	12.0	-16.80
45-54	4,217	14.8	3,773	13.6	-12.11
55-64	3,451	12.1	4,007	14.4	13.70
65 and over	4,137	14.5	4,856	17.5	14.66
Total Population	28,578		27,776		-2.89
Median Age	39.0		42.0		
Ohio					
Under 15	2,265,348	19.7	2,147,099	18.4	-5.63
15-24	1,591,089	13.8	1,532,521	13.1	-3.67
25-34	1,414,705	12.4	1,521,875	13.1	6.95
35-44	1,546,960	13.4	1,391,747	11.9	-10.84
45-54	1,745,227	15.2	1,514,333	13.0	-14.79
55-64	1,364,403	11.9	1,606,528	13.8	14.72
65 and over	1,584,699	13.8	1,941,294	16.7	18.76
Total Population	11,512,431		11,655,397		1.24
Median Age	38.3		39.4		

Source: U.S. Census Bureau, American Community Survey, 2010-2019

Figure 7: Adams County Population Pyramid, 2019⁷



Educational Attainment

Table 2 shows estimations of the educational attainment of residents aged 25 and older. Likewise, Figure 8 visualizes the educational attainment of the populations in Adams County, Ohio, and the United States. In 2019,

⁷ Source: Annual Estimates of the Resident Population for Selected Age Groups by Sex for the United States, States, Counties and Puerto Rico Commonwealth and Municipios: April 1, 2010 to July 1, 2019, U.S. Census Bureau, Population Division

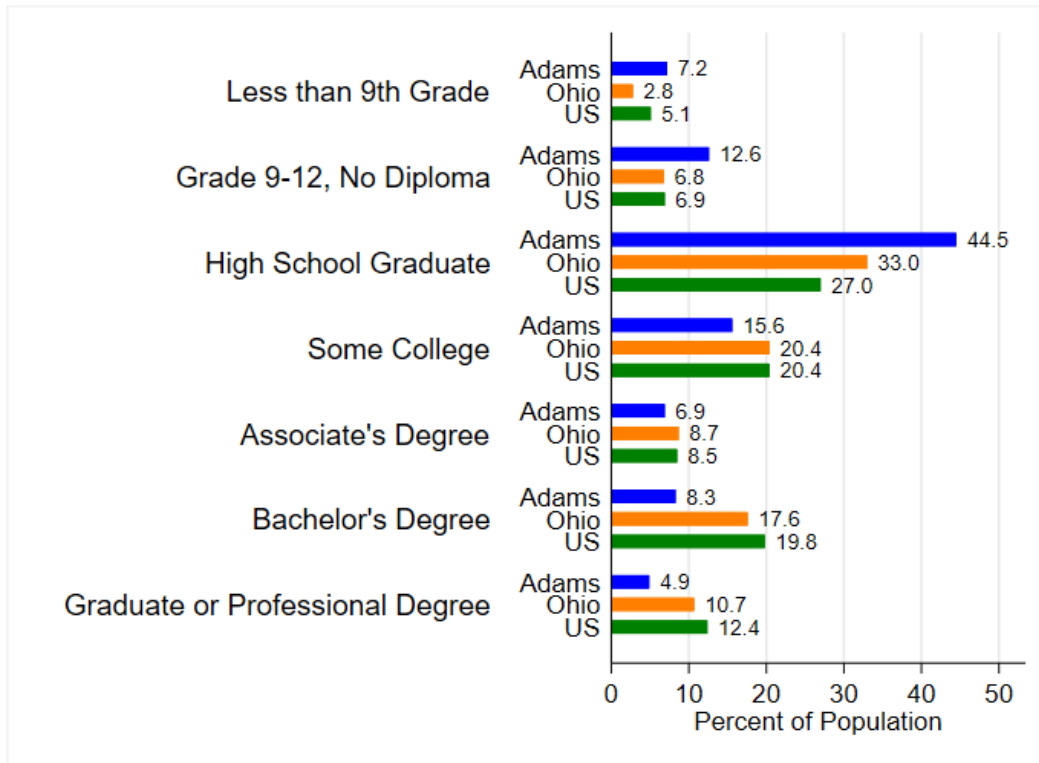
35.66% of the population of Adams County reported having some amount of college education, compared to 57.34% of Ohio and 61.04% of the United States. This shows that Adams County trails in comparison to both state and national averages. Additionally, 19.8% of Adams County's population did not have a high school diploma, while only 9.6% of the population in Ohio did not have a high school diploma. From 2010 to 2019, the proportion of the population that reported having some college education increased from roughly 28.5% to 35.7% in Adams County. Furthermore, the proportion that did not have a high school diploma decreased from 25.4% to 19.8%. This shows that both the rate of residents attaining at least some higher education and of residents graduating from high school has increased.

Table 2: Educational Attainment: Adams County and Ohio, 2010 and 2019

	2010		2019		Percent Change
	Number	Percent	Number	Percent	
Adams County					
Some high school or less	4,848	25.4	3,764	19.8	-22.36
High school diploma	8,819	46.2	8,453	44.5	-4.15
Some college, no degree	2,367	12.4	2,957	15.6	24.93
Associate's degree	1,031	5.4	1,311	6.9	27.16
Bachelor's degree	1,145	6.0	1,575	8.3	37.55
Graduate or professional degree	897	4.7	927	4.9	3.34
Population 25 years and over	19,088		18,987		-0.53
Ohio					
Some high school or less	964,655	12.6	767,378	9.6	-20.45
High school diploma	2,740,846	35.8	2,634,997	33.	-3.86
Some college, no degree	1,538,855	20.1	1,626,965	20.4	5.73
Associate's degree	558,888	7.3	691,111	8.7	23.66
Bachelor's degree	1,171,367	15.3	1,401,609	17.6	19.66
Graduate or professional degree	673,727	8.8	853,717	10.7	26.72
Population 25 years and over	7,655,994		7,975,777		4.18

Source: U.S. Census Bureau, American Community Survey, Educational Attainment, 2010-2019

Figure 8: Educational Attainment, 2019⁸



School Enrollment Trends

Figure 9 visualizes the number of students enrolled in Adams County’s school districts from 1990 to 2021. During this period, enrollment generally declined with periods of stabilization, decreasing from 5,814 students to 4,193, an overall loss of 27.88%. To show how this compares to the overall state, Figure 10 shows the total enrollment of all schools in Ohio. The enrollment for the state peaked in 2009 with a total enrollment of 1,846,658 students and has generally declined since. State enrollment declined 3.85% from 1990 to 2021. Therefore, while the state’s school enrollment has decreased over the last decade, Adams County’s schools have been hit especially hard. Additionally, the rate of decline increased after it was announced that the DP&L plants were closing. Figures 11 and 12 show enrollment in Adams County’s two school districts: Ohio Valley and Manchester Local. These figures show that while enrollment in the Ohio Valley School District had been steadily decreasing, enrollment in the Manchester Local School District had been stable or increasing most years between 2005 and 2017. After the announcement of the DP&L closures, enrollment fell at a faster rate than previous years, decreasing to 724 students, which is the lowest the enrollment has been since the creation of the district in 2005.

⁸ Source: U.S. Census Bureau, 2013-2019 American Community Survey 5-Year Estimates

Figure 9: Adams County School Enrollment, 1990-2021⁹

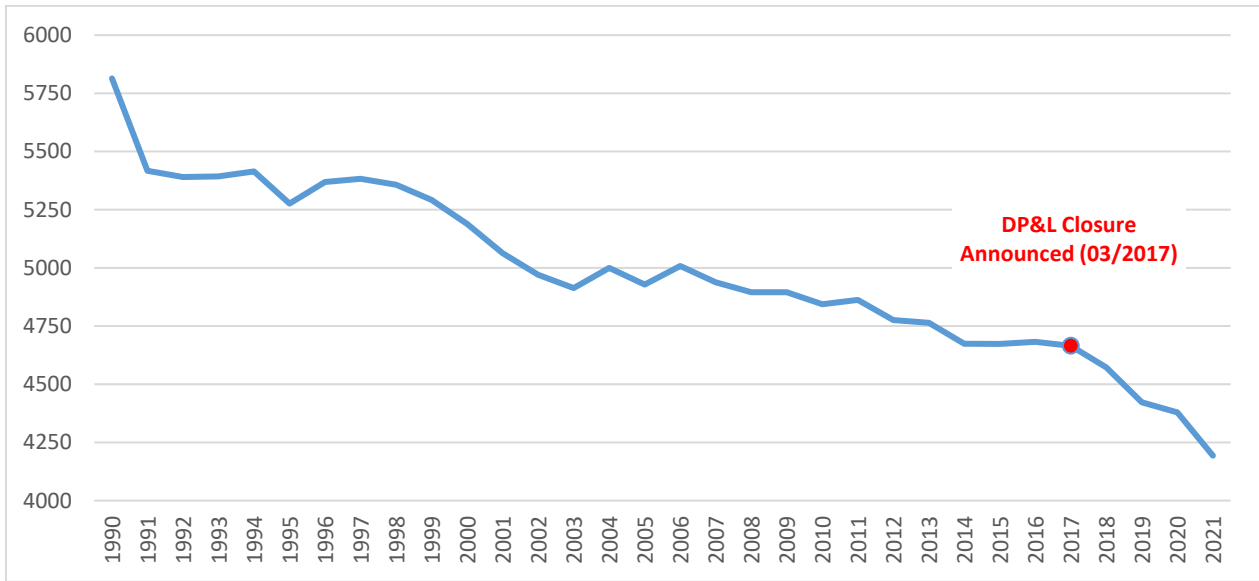
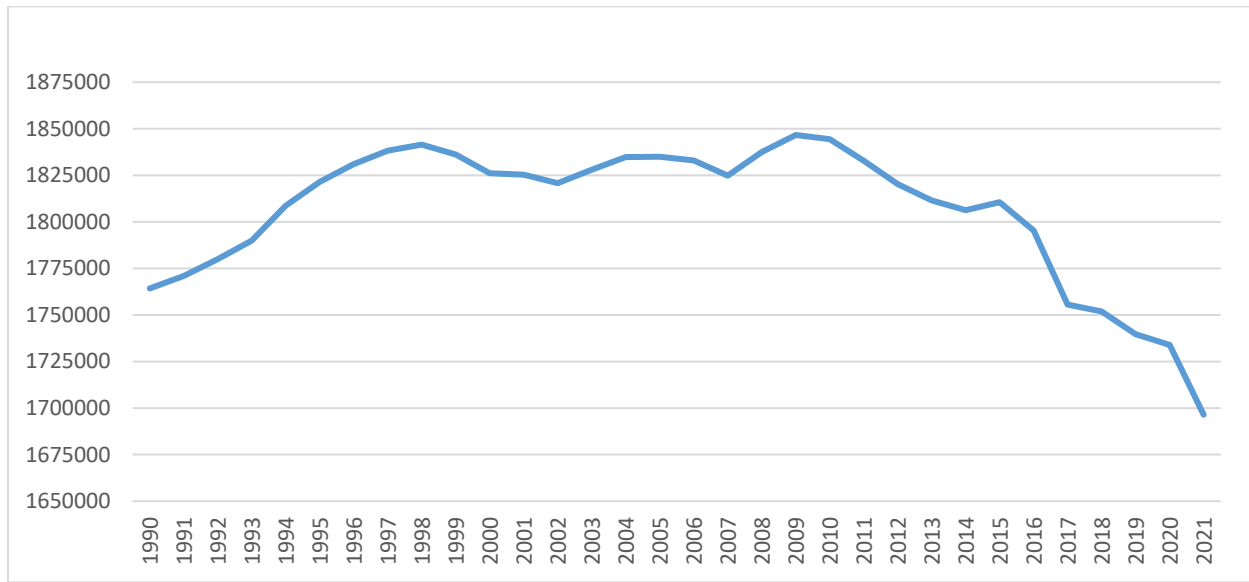


Figure 10: Ohio School Enrollment, 1990-2021¹⁰



⁹ Source: Ohio Department of Education, Enrollment Data, 1990-2021

¹⁰ Source: Ohio Department of Education, Enrollment Data, 1990-2021

Figure 11: Ohio Valley School District Enrollment, 1990-2021¹¹

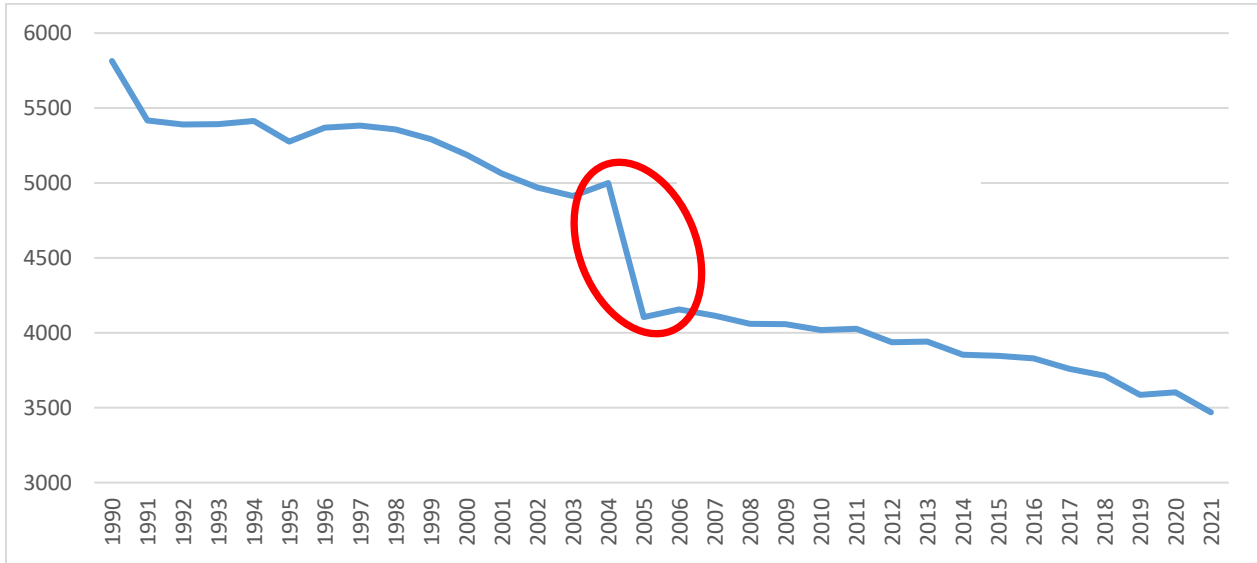
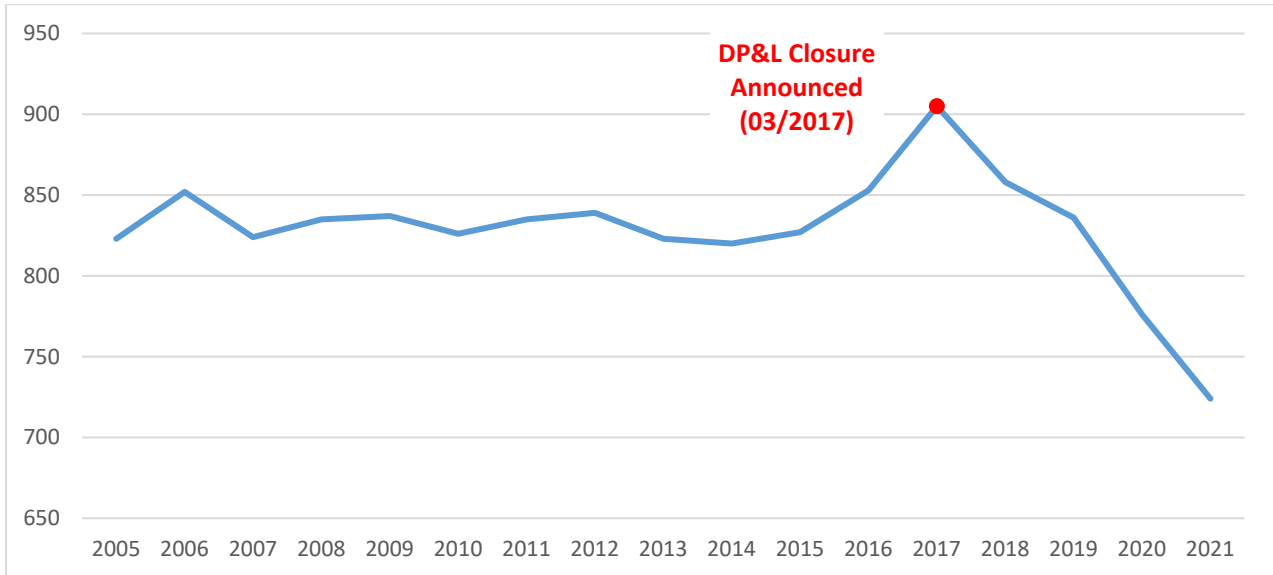


Figure 12: Manchester Local District Enrollment, 2005-2021¹²



¹¹ Source: Ohio Department of Education, Enrollment Data, 1990-2021

¹² Source: Ohio Department of Education, Enrollment Data, 1990-2021

Quality of Schools

The Ohio Department of Education grades each school district in the state according to how well they meet certain criteria. Table 3 shows the ranking of the two school districts in Adams County, Ohio Valley and Manchester Local, in comparison to the average rankings for the state of Ohio. Overall, the two school districts of interest rank about as well as Ohio as a whole. The Manchester Local School District ranks better than or as well as the Ohio Valley School District in every category. However, the Manchester Local district was more severely impacted by the closures of the DP&L plants. One weakness worth mentioning for both school districts is how well they are perceived at preparing students for success. This component is measured as a proportion of students who either 1) earn a remediation-free score on the ACT or SAT, 2) earn an honor’s diploma, or 3) earn 12 points in an industry recognized credential or group of credentials in one of thirteen high-demand fields. A score of “F” means that less than 40% have achieved any of these three goals, indicating that high school graduates are not well prepared for successful careers. Figure 13 depicts the quality of each school in Adams County. Both schools in the Manchester Local School District were graded “C”. Two of six schools in the Ohio Valley School District were graded “C”. The other four schools were graded “D”.

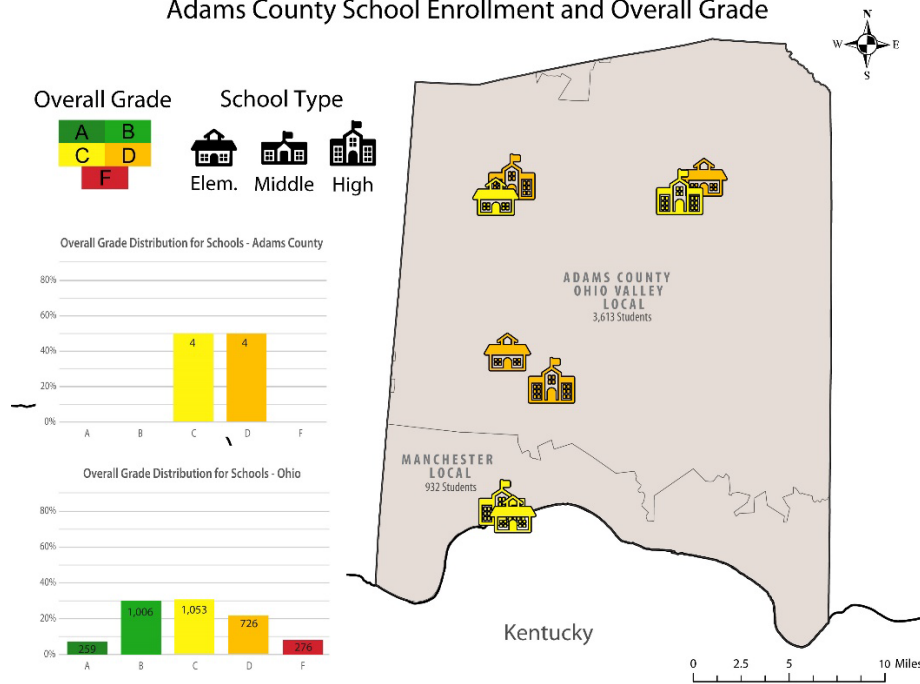
Table 3: Quality of Schools in Adams County’s School Districts and Ohio¹³

Component	Definition	Weight	Ohio	Ohio Valley	Manchester Local
Achievement	Number of students who passed the state tests	20%	C	C	C
Progress	Growth students make based on past years standardized tests	20%	C	D	B
Graduation Rate	How many students successfully complete high school in 4-5 years	15%	B	B	A
Gap Closing	How well schools meet performance expectations for all students	15%	B	B	B
Improving At-Risk K-3 Readers	How successful the school is at getting struggling readers on track to proficiency in third grade and beyond.	15%	D	D	C
Prepared for Success	How well students are prepared for all future opportunities, not just college	15%	D	F	F
Overall	Weighted total average of all six components	-	C	D	C

¹³ Source: Ohio Department of Education, Ohio School Report Cards Data 2019

Figure 13: Quality of Schools in Adams County¹⁴

Adams County School Enrollment and Overall Grade



Household Income Distribution

Table 4 describes the number and annual income distributions of households in Adams County and Ohio for the years of 2010 and 2019. By the Census Bureau definition, household income is the sum of annual earnings for all residents of a household, related or unrelated to the homeowner, who are at least 15 years old. In 2019, the largest proportion of Adams County households fell into the \$15,000-24,999 income range. However, the largest proportion of households statewide fell into \$50,000-74,999 income range. Furthermore, 46.1% of Adams County’s households earned less than \$35,000 in 2019, compared to 31.1% for Ohio. Adams County’s median income grew by 19.18% from 2010 to 2019, a comparable growth rate to Ohio at 19.52%.

Figure 14 shows the changes in median household income for Adams County, Ohio, and the United States from 2011 to 2019. From 2011 to 2019, Ohio and the United States both experienced a steady increase in household income. Adams County appears to have been mostly insulated from the growth in household income observed at the state and national levels, having real median household income increase by only \$6,200 compared to \$9,200 and \$10,900 for Ohio and the United States, respectively. Additionally, Adams County experienced two years of negative real growth in 2014 and 2016.

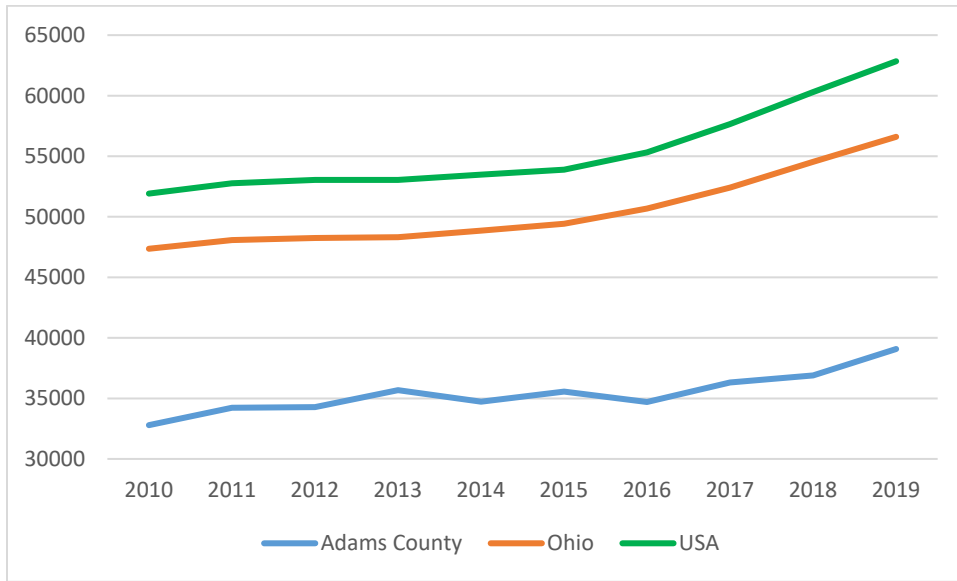
¹⁴ Source: Ohio Department of Education, Ohio School Report Cards Data 2019

Table 4: Household Income Distribution: Adams County and Ohio, 2010 and 2019

Household Income	2010		2019		Percent Change
	Number	Percent	Number	Percent	
Adams County					
Less than \$10,000	1,422	13.2	1,195	11.2	-15.96
\$10,000 to \$14,999	1,073	10.0	544	5.1	-49.30
\$15,000 to \$24,999	1,734	16.1	1,846	17.3	6.46
\$25,000 to \$34,999	1,436	13.4	1,334	12.5	-7.10
\$35,000 to \$49,999	1,736	16.1	1,494	14.0	-13.94
\$50,000 to \$74,999	1,599	14.9	1,537	14.4	-3.88
\$75,000 to \$99,999	869	8.1	1,067	10.0	22.78
\$100,000 to \$149,999	646	6	1,142	10.7	76.78
\$150,000 to \$199,999	136	1.3	299	2.8	119.85
\$200,000 or more	103	1.0	213	2.0	106.80
Total Households	10,734		10,673		-0.57
Median income	\$32,791		\$39,079		19.18
Mean income	\$45,351		\$56,865		25.39
Ohio					
Less than \$10,000	372,468	8.2	317,992	6.8	-14.63
\$10,000 to \$14,999	268,211	5.9	215,112	4.6	-19.80
\$15,000 to \$24,999	534,177	11.7	462,959	9.9	-13.33
\$25,000 to \$34,999	520,543	11.4	458,283	9.8	-11.96
\$35,000 to \$49,999	691,867	15.2	626,632	13.4	-9.43
\$50,000 to \$74,999	874,828	19.2	855,774	18.3	-2.18
\$75,000 to \$99,999	546,220	12	607,927	13.0	11.30
\$100,000 to \$149,999	481,959	10.6	659,366	14.1	36.81
\$150,000 to \$199,999	144,656	3.2	247,847	5.3	71.34
\$200,000 or more	117,341	2.6	229,142	4.9	95.28
Total Households	4,552,270		4,676,358		2.73
Median income	\$47,358		\$56,602		19.52
Mean income	\$62,205		\$76,958		23.72

Source: U.S. Census Bureau, American Community Survey, Income in the Past 12 Months, 2010-2019

Figure 14: Median Household Income, 2011-2019¹⁵



Year Housing Structure Built

Table 5 shows the distribution of when housing structures were built in Adams County and Ohio. It shows that 33.4% of housing structures in Adams County were constructed between 1980 and 1999. This is greater than that of Ohio, which had 20.9%. Furthermore, 49.6% of housing units in Adams County were constructed before 1980, compared to 66.6% constructed in Ohio. This shows that Adams County has constructed fewer new housing units, but also has fewer amounts of much older housing units compared to the statewide averages.

Table 5: Year Structure Built: Adams County and Ohio, 2019

YEAR BUILT	Adams County		Ohio	
	Number	Percent	Number	Percent
Built 1939 or earlier	2,359	18.2	1,045,218	20.1
Built 1940 to 1949	464	3.6	318,690	6.1
Built 1950 to 1959	769	5.9	732,150	14.1
Built 1960 to 1969	823	6.4	627,554	12.1
Built 1970 to 1979	2,003	15.5	741,862	14.3
Built 1980 to 1989	2,115	16.3	468,478	9.0
Built 1990 to 1999	2,209	17.1	616,264	11.8
Built 2000 to 2009	1,832	14.2	496,019	9.5
Built 2010 to 2013	255	2.0	82,036	1.6
Built 2014 or later	108	0.8	74,033	1.4
Total Housing Units	12,937		5,202,304	

Source: U.S. Census Bureau, American Community Survey, Selected Household Characteristics, 2019

¹⁵ U.S. Census Bureau, American Community Survey, Income in the Past 12 Months, 2011-2019

Housing Property Values

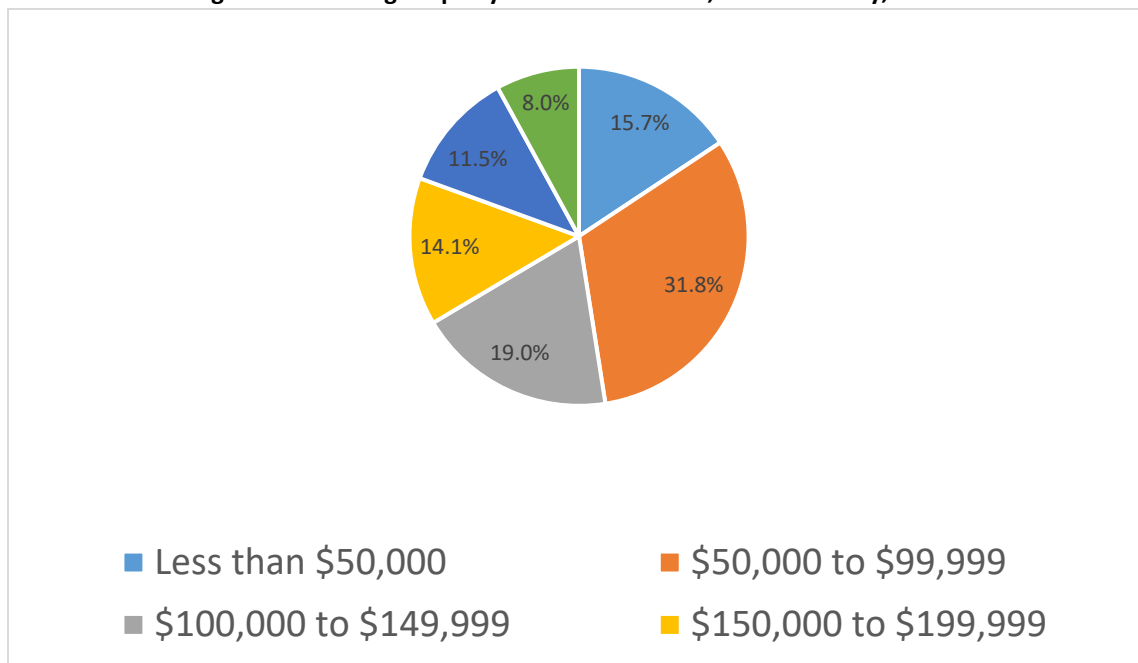
Table 6 displays the current property value distribution of housing structures in Adams County and Ohio. This data shows that the property values in Adams County are much lower than that of the surrounding area. In 2019, there were 7,559 recorded homes in Adams County with a median value of \$105,300, which is \$40,700 lower than Ohio and \$112,200 less than the United States. This is further supported by the fact that 47.5% of Adams County's housing units are valued at less than \$100,000, while only 30.1% of Ohio's are worth less than \$100,000. Figure 15 visualizes the distribution of housing property values in Adams County. The most common housing property value range was \$50,000 to \$99,999, comprising 31.33% of all houses. The least common range was greater than \$300,000, comprising 8.0% of all houses.

Table 6: Property Values: Adams County and Ohio, 2019

VALUE	Adams County		Ohio	
	Number	Percent	Number	Percent
Less than \$50,000	1,185	15.7	263,511	8.5
\$50,000 to \$99,999	2,406	31.8	667,512	21.6
\$100,000 to \$149,999	1,434	19.0	667,864	21.6
\$150,000 to \$199,999	1,065	14.1	544,500	17.6
\$200,000 to \$299,999	867	11.5	538,100	17.4
\$300,000 to \$499,999	321	4.2	302,961	9.8
\$500,000 to \$999,999	273	3.6	87,988	2.8
\$1,00,000 or more	8	0.1	16,610	0.5
Median (dollars)	\$105,300		\$145,700	

Source: U.S. Census Bureau, American Community Survey, Selected Household Characteristics, 2019

Figure 15: Housing Property Value Distribution, Adams County, 2019¹⁶



¹⁶ Source: U.S. Census Bureau, American Community Survey, Selected Household Characteristics, 2019

Rent Distribution

Table 7 presents the rent payment distribution of Adams County and Ohio in 2019. The highest rent range in Adams County has been \$1,500 to \$1,999, which only accounts for 0.6% of the units. This shows that Adams County lacks higher end rental units. Additionally, the median rent price in Adams County is about \$232 less than the state median. Furthermore, Adams County has a large proportion of rental property collecting no rent.

Table 7: Units Paying Rent: Adams County and Ohio, 2019

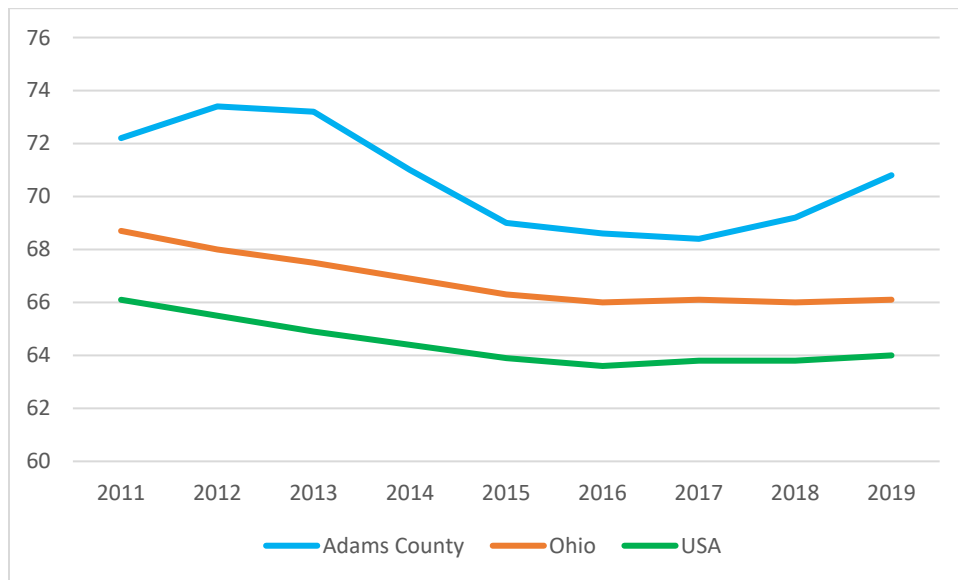
GROSS RENT	Adams County		Ohio	
	Number	Percent	Number	Percent
Less than \$500	861	36.1	203,826	13.5
\$500 to \$999	1,334	55.9	878,410	58.3
\$1,000 to \$1,499	175	7.3	336,129	22.3
\$1,500 to \$1,999	15	0.6	62,194	4.1
\$2,000 to \$2,499	0	0.0	15,765	1.0
\$2,500 to \$2,999	0	0.0	4,612	0.3
\$3,000 or more	0	0.0	6,168	0.4
Total Units	2,385		1,507,104	
Median (dollars)	\$576		\$808	
No rent paid	729		80,208	

Source: U.S. Census Bureau, American Community Survey, Selected Household Characteristics, 2019

Homeownership

Figure 16 shows the homeownership trends for Adams County, Ohio, and the United States from 2011 to 2019. Adams County experienced decreasing homeownership rates as did the national and state-level rates following the 2008 housing crisis. By 2017, 68.4% of Adams County residents owned their house compared to 72.2% in 2011. This is a larger share than at both the national and state-level, with the national rate falling from 66.1% to 63.8% and the state rate falling from 68.7% to 66.1% during this period. However, while the national and state numbers stayed relative stable from 2017 to 2019, Adams County rebounded to 70.8% in 2019. This may be due be contributed to factors such as a limited housing stock allowing for larger swings with fewer purchases, as well as the less expensive nature of the housing stock being more affordable for homebuyers.

Figure 16: Homeownership Rate, 2011-2019¹⁷

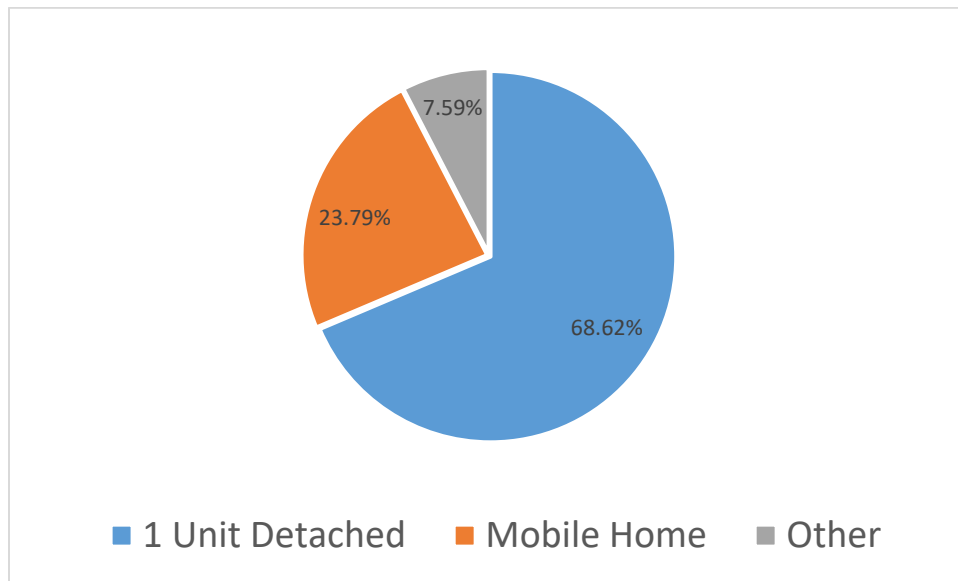


Housing Units Structure

Figure 17 shows the distribution of type of housing units in Adams County. In 2019, the most common housing unit structure was a one unit detached house, or single-family home, and accounted for over 68% of housing units in Adams County. Additionally, over 23% of Adams County residents live in mobile home. This is much higher than the national average of mobile home occupancy, which was 6.2% in 2019.

¹⁷ Source: U.S. Census Bureau, American Community Survey, Selected Household Characteristics, 2019

Figure 17: Housing Unit Structure Distribution, Adams County, 2019¹⁸



Health Outcomes

Figure 18 depicts the percentages of diagnosed adult asthma, diagnosed diabetes, and obesity prevalence in Adams County and Ohio in 2017. Adams County's proportion of adults with asthma of 15% and with diabetes of 12% were slightly higher than the Ohio averages of 13.7% and 11.3%, respectively. Additionally, Adams County has a higher obesity prevalence of 40% than the Ohio average of 33.8%.

Figure 19 presents heart disease and stroke hospitalization and death rates from 2014-2016 in Adams County and Ohio. Per 1,000 beneficiaries, about 145 were hospitalized for heart disease and 21 were hospitalized for stroke in Adams County, showing that the county's hospitalization rates were slightly lower than those recorded in Ohio. However, death rates in Adams County were higher than those in the state, with about 64 more heart disease patients and 5 more stroke patients dying in Adams County per 100,000 people.

Figure 20 shows the rate of the four most common cancers in Adams County and Ohio in 2016. The most common cancer in Ohio is prostate cancer, followed by breast cancer, lung and bronchus cancers, and colon and rectum cancers. The most common cancer in Adams County is lung and bronchus cancers, followed by prostate cancer, breast cancer, and colon and rectum cancers. The rates of breast cancer and prostate cancer in Adams County are lower, but comparable to the rates in Ohio. Similarly, the rate of colon and rectum cancers in Adams County is higher, but comparable to the rate in Ohio. However, the rate of lung and bronchus cancers in Adams County is much higher than the rate in Ohio.

Figure 21 shows the leading causes of death in Adams County and Ohio. Heart disease and malignant neoplasms (cancerous tumors) are the leading causes of death in Adams County and Ohio. The death rates for heart disease, malignant neoplasms, and cerebrovascular disease are slightly lower in Adams County than in Ohio. However, the death rates for chronic lower respiratory diseases and accidents are higher in Adams County than in Ohio.

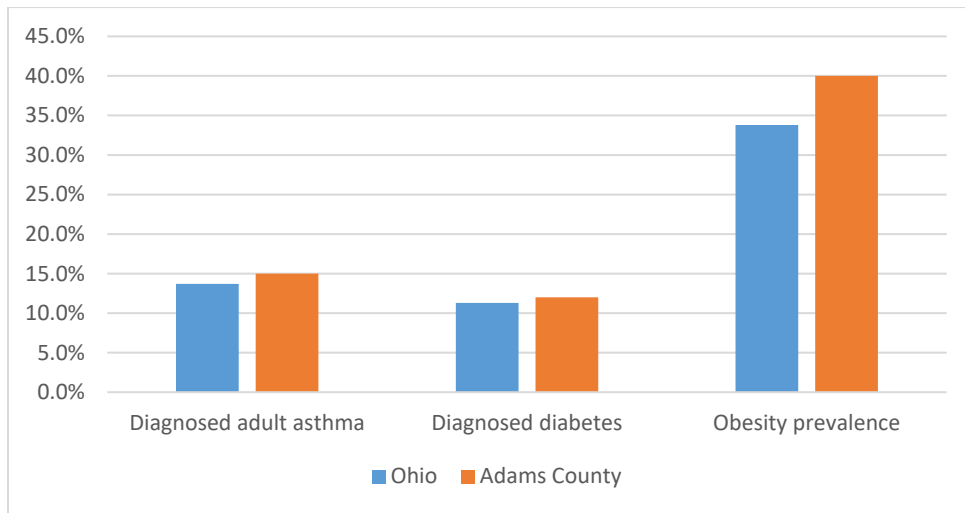
Figure 22 shows the unintentional drug overdose death rate per 100,000 people in Adams County and Ohio from 2007 to 2017. In 2017, the death rate in Adams County was 50.35 per 100,000 people, compared to 41.61 in Ohio.

¹⁸ Source: U.S. Census Bureau, 2013-2019 American Community Survey 5-Year Estimates

While the Adams County death rate has been consistently higher than the Ohio death rate, they have followed a similar increasing trend during this period.

Table 8 compares the results of certain measures used to rank health statistics for the United States, Ohio, and Adams County in 2018. The table lists the rankings of health outcomes including health factors such as health behaviors, clinical care, social and economic factors, and physical environments. Most notably Adams County trails behind national and state ratios comparing the population’s health outcomes, access to clinical care providers, and access to exercise opportunities. Additionally, exceeds the national and state ratios comparing the population’s teen birth rate and injury death rate.

Figure 18: Asthma, Diabetes, and Obesity Percentages, 2017¹⁹



¹⁹ Source: Centers for Disease Control and Prevention, Behavioral Risk Factor Surveillance System, 2017

Figure 19: Heart Disease and Stroke Hospitalization and Death Rates, 2014-2016 estimate²⁰

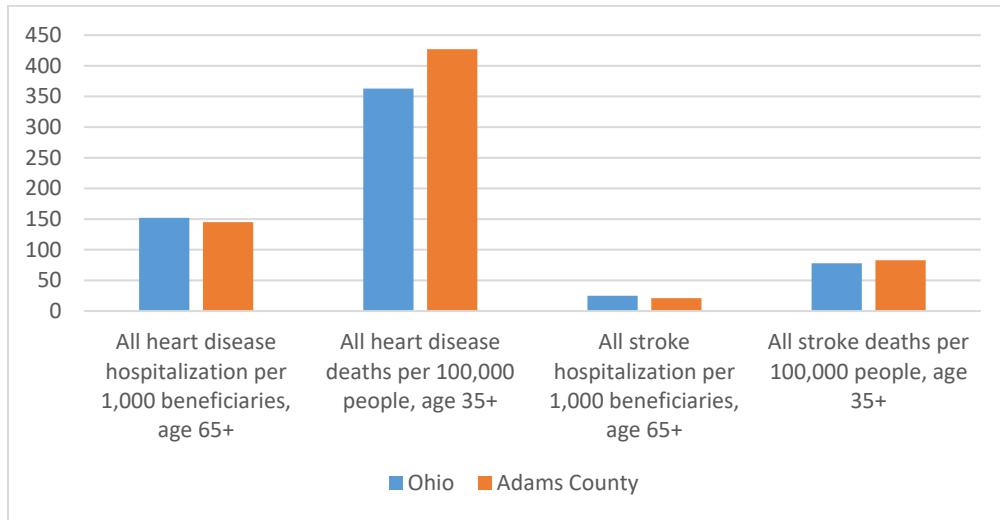
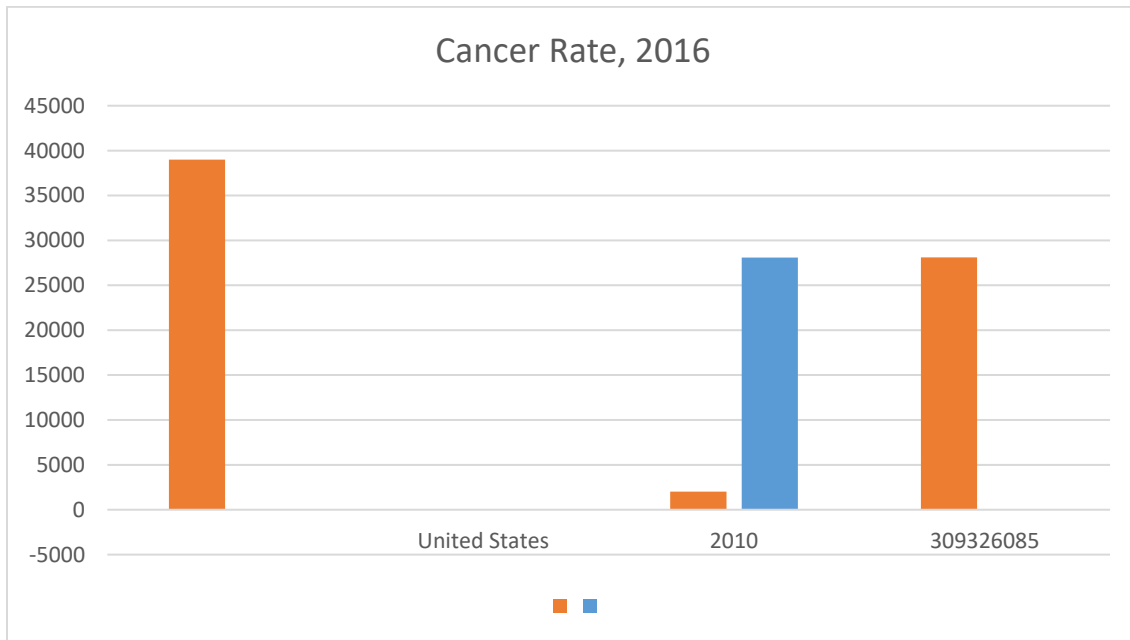


Figure 20: Cancer Rate, Adams County and Ohio, 2016²¹



²⁰ Source: National Center for Chronic Disease Prevention and Health Promotion, Division for Heart Disease and Stroke Prevention, 2014-2016

²¹ Source: Ohio Department of Health, Cancer Incidence Data, 2016

Figure 21: Leading Cause of Death: Adams County and Ohio, 2007-2017²²

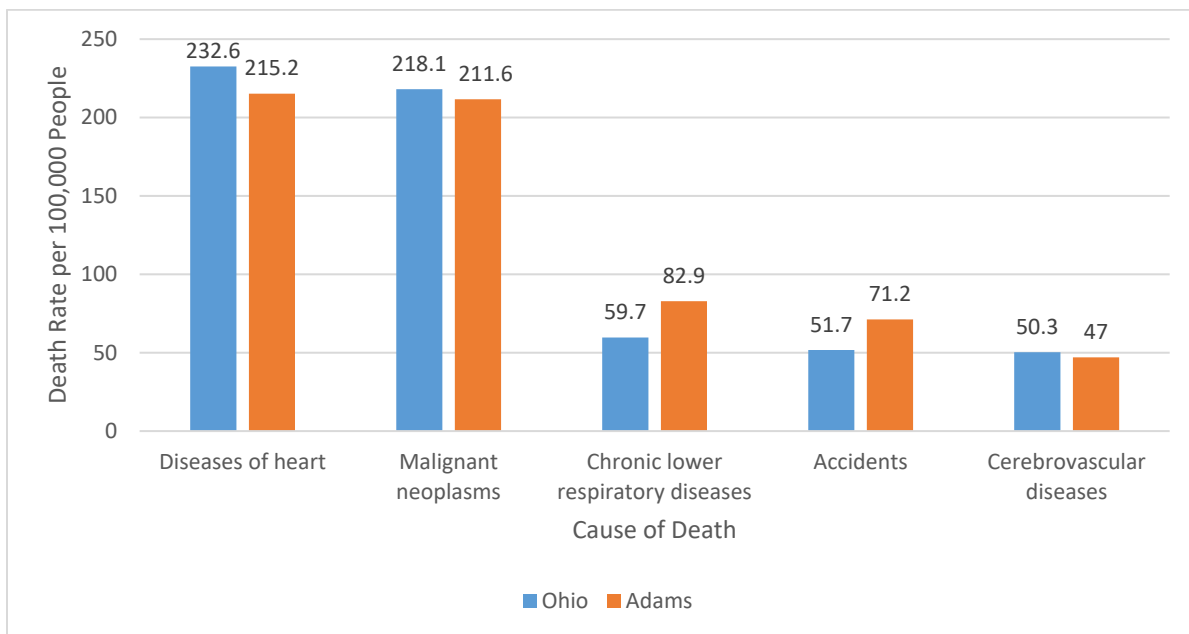
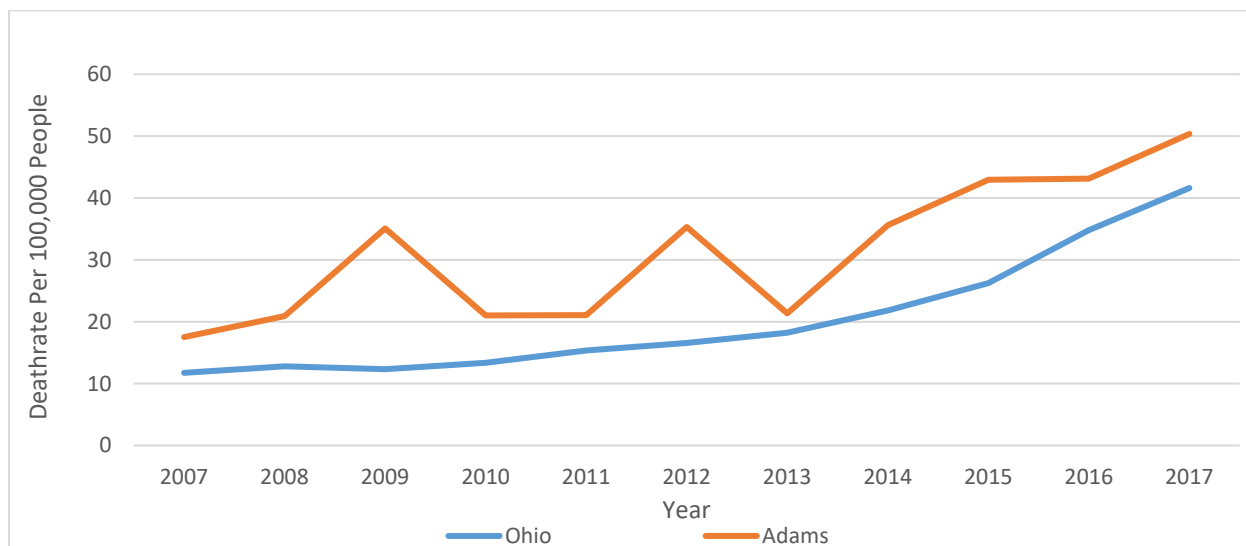


Figure 22: Unintentional Drug Overdose Death Rate, Adams County and Ohio, 2007-2017²³



²² Ohio Department of Health, Mortality Dataset, 2007-Present

²³ Source: Ohio Department of Health, Mortality Dataset, 2007-2017

Table 8: Health Rankings with Measures and Results: United States, Ohio, and Adams County, 2018²⁴

Measure	Description	US	OH	OH Minimum	OH Maximum	Adams County
HEALTH OUTCOMES						
Premature Death	Years of potential life lost before age 75 per 100,000 population	6,700	7,700	3,800	11,700	10,600
Poor or fair health	% of adults reporting fair or poor health	16%	17%	10%	23%	23%
Poor physical health days	Average # of physically unhealthy days reported in past 30 days	3.7	4.0	3.0	4.7	4.7
Poor mental health days	Average # of mentally unhealthy days reported in past 30 days	3.8	4.3	3.3	4.7	4.6
Low birthweight	% of live births with low birthweight (< 2500 grams)	8%	9%	5%	11%	10%

²⁴ University of Wisconsin, Population Health Institute, County Health Rankings, 2018

Measure	Description	US	OH	OH Min	OH Max	Adams County
HEALTH FACTORS						
HEALTH BEHAVIORS						
Adult Smoking	% of adults who are current smokers	17%	23%	14%	25%	25%
Adult obesity	% of adults that report a BMI \geq 30	28%	32%	27%	40%	32%
Food environment index	Index of factors that contribute to a healthy food environment, (0-10)	7.7	6.6	5.7	8.9	7.1
Physical inactivity	% of adults aged 20 and over reporting no leisure-time physical activity	23%	26%	19%	36%	29%
Access to exercise opportunities	% of population with adequate access to locations for physical activity	83%	85%	16%	97%	40%
Excessive drinking	% of adults reporting binge or heavy drinking	18%	19%	16%	21%	17%
Alcohol-impaired driving deaths	% of driving deaths with alcohol involvement	29%	34%	16%	60%	32%
Sexually transmitted infections	# of newly diagnosed chlamydia cases per 100,000 population	478.8	489.3	84.3	847.2	266.6
Teen births	# of births per 1,000 female population ages 15-19	27	28	8	53	46

Measure	Description	US	OH	OH Minimum	OH Maximum	Adams County
CLINICAL CARE						
Uninsured	% of population under age 65 without health insurance	11%	8%	4%	22%	9%
Primary care physicians	Ratio of population to primary care physicians	1,320:1	1,310:1	14,780:1	750:1	2,800:1
Dentists	Ratio of population to dentists	1,480:1	1,660:1	15,310:1	980:1	2,790:1
Mental health providers	Ratio of population to mental health providers	470:1	560:1	10,980:1	340:1	1,990:1
Preventable hospital stays	# of hospital stays for ambulatory-care sensitive conditions per 1,000 Medicare enrollees	49	57	33	120	120
Diabetes monitoring	% of diabetic Medicare enrollees ages 65-75 that receive HbA1c monitoring	85%	85%	74%	93%	80%
Mammography screening	% of female Medicare enrollees ages 67-69 that receive mammography screening	63%	61%	48%	69%	52%

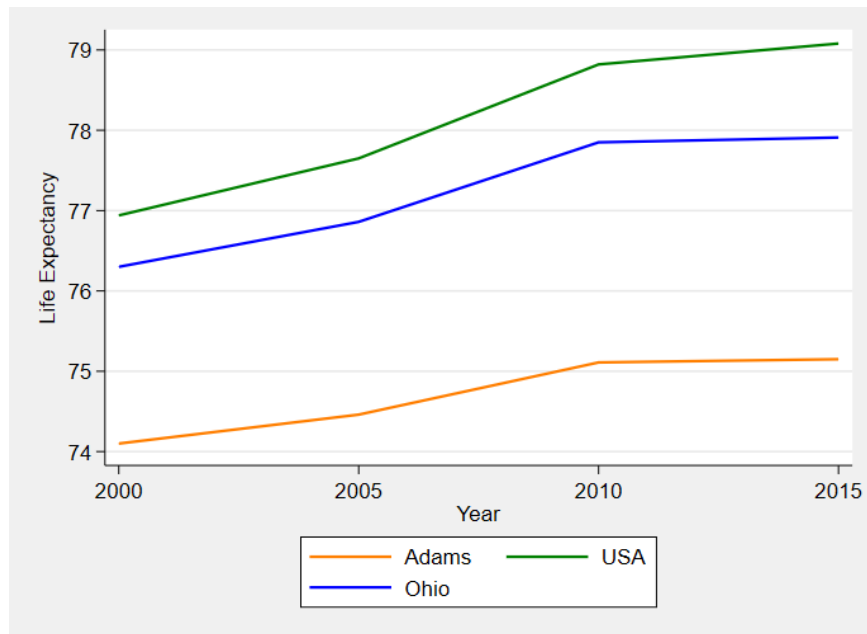
Measure	Description	US	OH	OH Minimum	OH Maximum	Adams County
SOCIAL AND ECONOMIC FACTORS						
High school graduation	% of ninth-grade cohort that graduates in four years	83%	81%	33%	98%	93%
Some college	% of adults ages 25-44 with some post-secondary education	65%	65%	19%	83%	38%
Unemployment	% of population aged 16 and older unemployed but seeking work	4.9%	4.9%	3.2%	11.1%	7.5%
Children in poverty	% of children under age 18 in poverty	20%	20%	5%	32%	30%
Income inequality	Ratio of household income at the 80th percentile to income at the 20th percentile	5	4.8	3.5	6.9	5.5
Children in single-parent households	% of children that live in a household headed by a single parent	34%	36%	8%	47%	38%
Social associations	# of membership associations per 10,000 population	9.3	11.3	5.4	22.5	9.6
Violent crime	# of reported violent crime offenses per 100,000 population	380	290	20	794	84
Injury deaths	# of deaths due to injury per 100,000 population	65	75	40	111	107

Measure	Description	US	OH	OH Minimum	OH Maximum	Adams County
PHYSICAL ENVIRONMENT						
Air pollution - particulate matter	Average daily density of fine particulate matter in micrograms per cubic meter (PM2.5)	8.7	11.3	10.5	13.0	11.3
Drinking water violations	Indicator of the presence of health related drinking water violations. Yes - indicates the presence of a violation, No - indicates no violation.	NA	NA	No	Yes	No
Severe housing problems	% of households with overcrowding, high housing costs, or lack of kitchen or plumbing facilities	19%	15%	8%	24%	18%
Driving alone to work	% of workforce that drives alone to work	76%	83%	53%	89%	80%
Long commute - driving alone	Among workers who commute in their car alone, % commuting > 30 minutes	35%	30%	16%	57%	49%

Life Expectancy

Figure 23 shows that life expectancy in Adams County has consistently remained below the national and state averages from 2000 to 2015. Specifically, Adams County life expectancy has increased from 74.1 years to 75.15 years, about a 1.42% increase. Ohio life expectancy was 76.3 years in 2000 and increased by 2.11% to 77.91 years in 2015. The average national life expectancy was 76.94 years in 2000 and increased by 2.78% to 79.98 years in 2015. In addition to Adams County experiencing a lower life expectancy by over 4 years with respect to the national average, Adams County’s growth rate has only been about half as fast as the national average.

Figure 23: Life Expectancy, 2000-2015²⁵

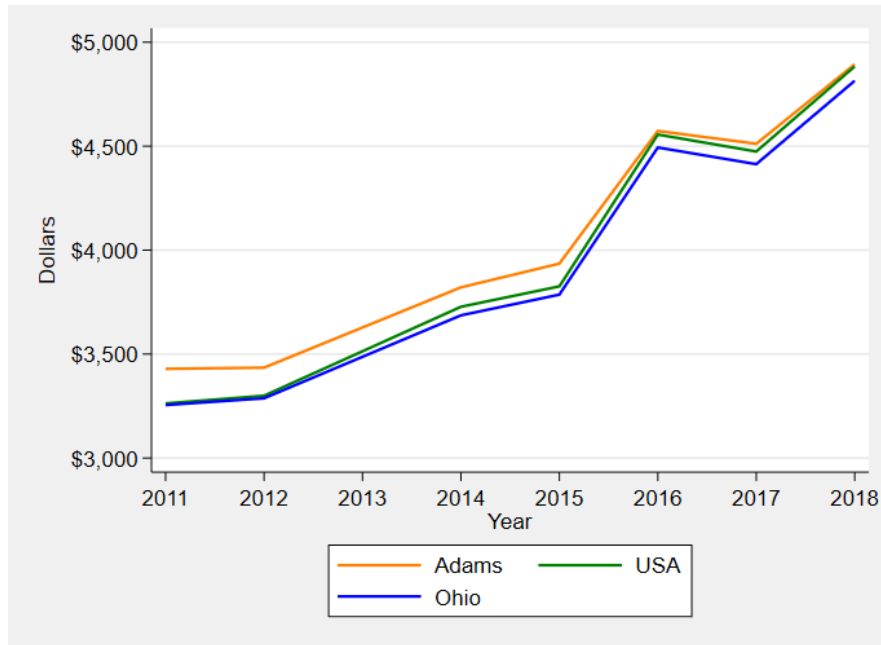


Healthcare Spending

Figure 24 shows that healthcare spending in Adams County has followed a very similar trend to both Ohio and the United States. Median household spending was \$3,429 in 2011 and has grown to \$4,894 in 2018 in Adams County. This spending has been consistently slightly higher than both the state and national medians, which were about \$3,255 and \$3,263 in 2011 and \$4,815 and \$4,884 in 2018, respectively.

²⁵ Source: Institute for Health Metrics and Evaluation, Global Health Data Exchange, 2000-2015

Figure 24: Healthcare Spending, 2011-2018²⁶

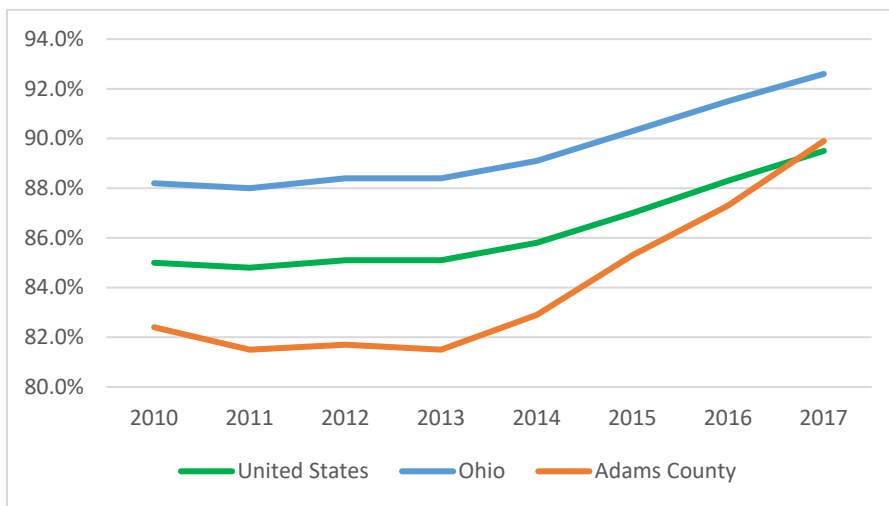


Health Insurance

Figure 25 shows the percentage of population with health insurance in Adams County, Ohio, and the United States. The graph shows that the percentage with health insurance was relatively stable from 2010 to 2013, then experienced an increase afterwards at all three levels. This may correlate to the enactment of the Affordable Care Act in 2014. In 2017, 89.9% of the population of Adams County had health insurance, compared to 92.6% and 89.5% of Ohio and the United States, respectively. The percentage of the population with health insurance in Adams County has been consistently lower than Ohio from 2010 to 2017. Likewise, the percentage of the population with health insurance in Adams County was lower than the United States from 2010 to 2016. However, the percentage in Adams County was higher than percentage in the United States in 2017.

²⁶ Source: Easy Analytic Software, Inc <https://simplyanalytics.com/>

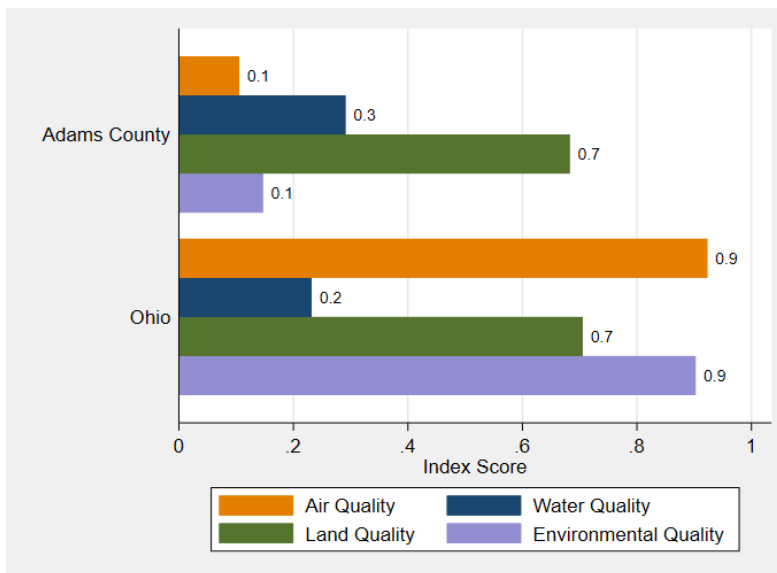
Figure 25: Percent of Population with Health Insurance: Adams County, Ohio, and the United States, 2010-2017²⁷



Environmental Quality

Figure 26 shows the EPA environmental quality rankings for Adams County and Ohio, standardized with respect to the United States. While Adams County boasts higher environmental quality than the national averages, it has generally scored lower compared to the state average. Most notably, air quality in Adams County in 2017 was scored at 0.1 standard deviations higher than the national average, while the Ohio average score was 0.9 standard deviations higher.

Figure 26: Environment Quality Index, 2017²⁸



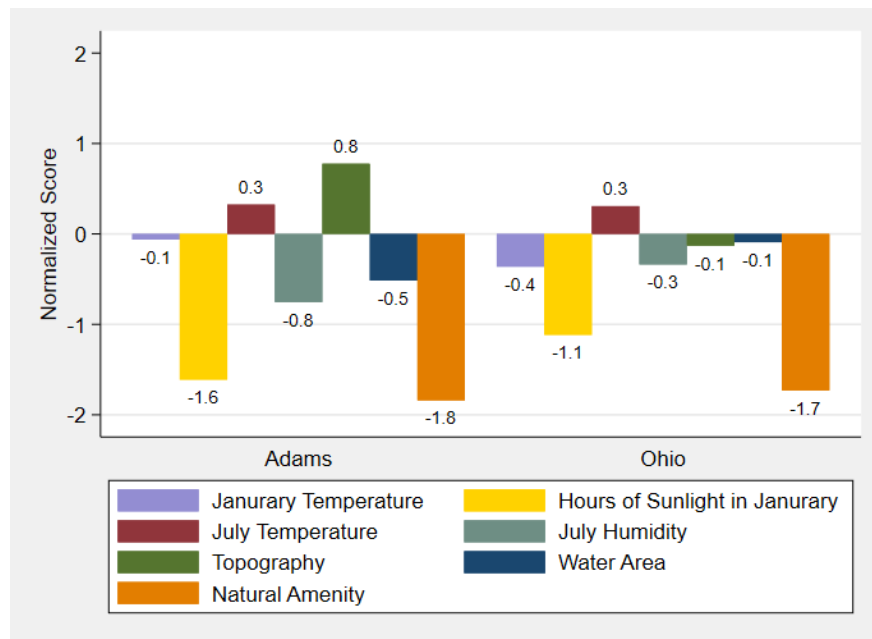
²⁷ Source: U.S. Census Bureau, 2010-2017 American Community Survey 5-Year Estimates

²⁸ Source: Environmental Protection Agency, Environmental Dataset Gateway, Environmental Quality Index, 2017

Amenity Score

Figure 27 shows the amenity score rankings for Adams County and Ohio, standardized with respect to the United States. A positive ranking is associated with a more appealing attribute than the national average. Adams County has positive rankings for Topography and July Temperatures (indicating a milder summer). Additionally, Adams County scored better on Topography and January Temperatures when compared to Ohio. Adams County scored worse than Ohio and the United States on Hours of Sunlight in January, July Humidity, Water Area, and Natural Amenity.

Figure 27: Amenity Score²⁹

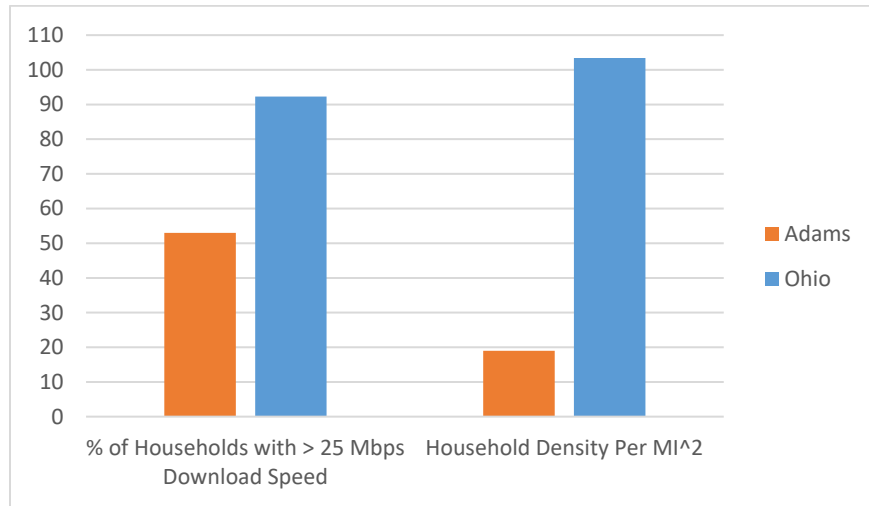


Broadband

Figure 28 shows the percentage of households in Adams County and Ohio with internet download speed greater than 25 Mbps in 2017. Additionally, Figure 28 shows the household density per square mile. Only 52.97% of households in Adams County have a download speed greater than 25 Mbps, compared to 92.29% of households in Ohio. However, the household density per square mile in Adams County is 19, which is significantly lower than in Ohio, which is 103.4. Lower population density may be prohibitive for companies deciding whether to invest in broadband infrastructure in rural communities.

²⁹ Source: United States Department of Agriculture, Economic Research Service, Natural Amenities Scale, 2019

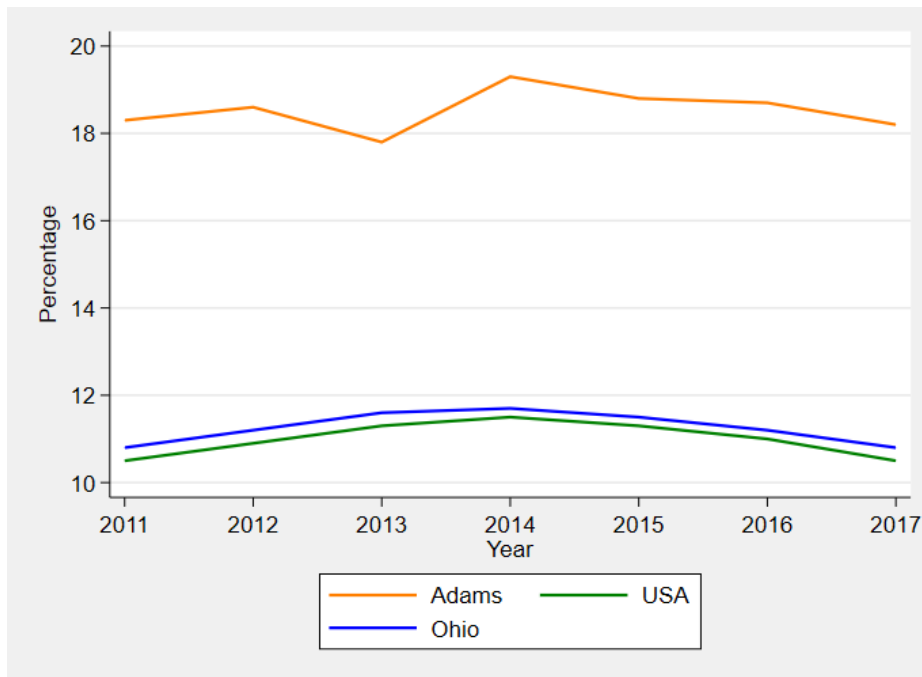
Figure 28: Broadband, Adams County and Ohio, 2017³⁰



Poverty

Figure 29 shows the poverty rates for Adams County, Ohio, and the United States from 2011 to 2017. Poverty rates in Adams County consistently remained high above state and national averages, fluctuating around 18.2% from 2011 to 2017. Meanwhile, the state and national poverty rates have both remained around 10.5%.

Figure 29: Poverty Rate, 2011-2017³¹



³⁰ Source: Connected Nation, Estimated Availability of Broadband Service by County Terrestrial Broadband, 2017

³¹ Source: U.S. Census Bureau, American Community Survey 5-Year Estimates, 2011-2017

Crime Rates

Figures 30 and 31 show the average crime rates in Adams County and Ohio from 2013 to 2017. The crime rates in Adams County are lower than the Ohio averages across all categories in both violent and property crimes. Note that the “arson” category within property crimes was left out due to lack of state-level data.

Figure 30: Average Violent Crime per 10,000 persons: Adams County and Ohio, 2013-2017³²

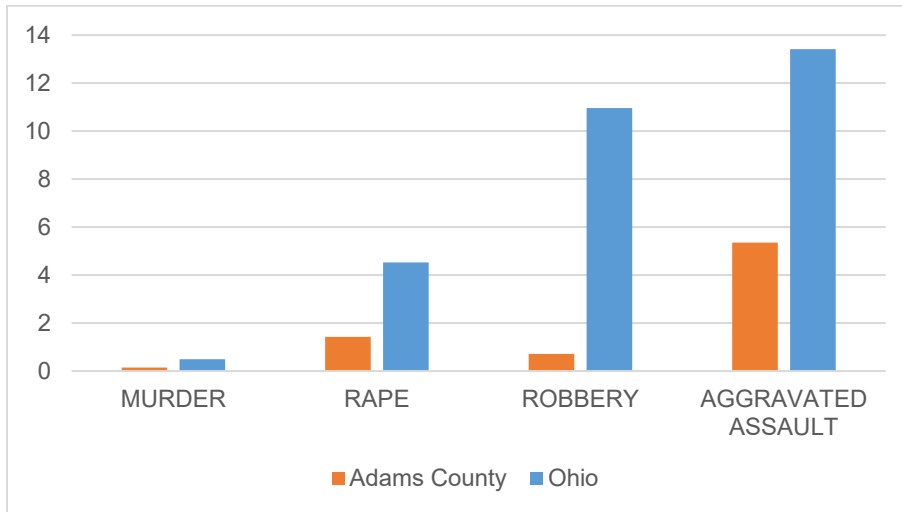
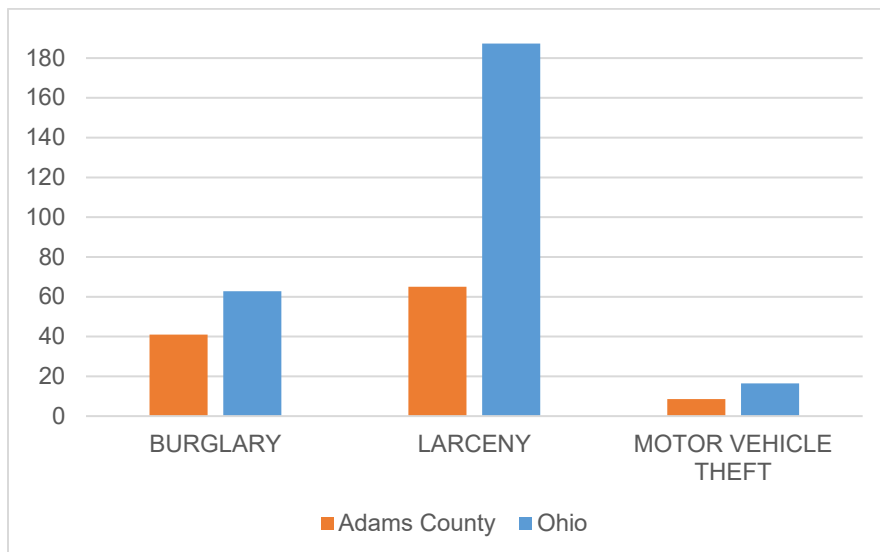


Figure 31: Average Property Crime per 10,000 persons: Adams County and Ohio, 2013-2017³³



³² Source: Ohio Department of Public Safety, Office of Criminal Justice Services, Crime Statistics and Crime Reports, 2013-2017

³³ Source: Ohio Department of Public Safety, Office of Criminal Justice Services, Crime Statistics and Crime Reports, 2013-2017

Economic Scan and Workforce Inventory

This section provides a report of the current and historic industry and occupational employment trends for Adams County and Ohio, as well as an analysis of regional employed resident commuter behavior.

Employment by Industry

Table 9 breaks down industry-specific employment data for Adams County and Ohio in 2010 and 2019. Education services, and health care and social assistance is Adams County's most significant employer with 26.8% of the county's working population. This industry is also the most significant employer for Ohio. Likewise, the second-most significant employer for both Adams County and Ohio is manufacturing, with 15.7% and 15.3% of the working population, respectively.

Adams County had three industries with employment growth from 2010 to 2019, compared to ten industries with employment decline. Of the growth industries, two industries had a growth rate of over 20%, including 59.18% growth in retail trade. On the other hand, three of ten loss industries experienced employment declines of greater than 20%, including a loss of 39.36% in wholesale trade.

Table 9: Employment by Industry: Adams County and Ohio, 2010 and 2019

Industry	2010 Estimate	Percent	2019 Estimate	Percent	Percent Change
Adams County					
Agriculture, forestry, fishing and hunting, and mining	425	4.0	340	3.3	-20.00
Construction	1,017	9.6	872	8.4	-14.26
Manufacturing	1,826	17.3	1,629	15.7	-10.79
Wholesale trade	188	1.8	114	1.1	-39.36
Retail trade	997	9.4	1,587	15.3	59.18
Transportation and warehousing, and utilities	699	6.6	866	8.3	23.89
Information	194	1.8	125	1.2	-35.57
Finance and insurance, and real estate and rental and leasing	348	3.3	287	2.8	-17.53
Professional, scientific, and management, and administrative and waste management	483	4.6	391	3.8	-19.05
Educational services, and health care and social assistance	2,612	24.8	2,791	26.8	6.85
Arts, entertainment, and recreation, and accommodation and food services	1,047	9.9	841	8.1	-19.68
Other services, except public administration	367	3.5	317	3.0	-13.62
Public administration	348	3.3	236	2.3	-32.18
Civilian employed population 16 years and over	10,551		10,396		-1.47

Industry	2010 Estimate	Percent	2019 Estimate	Percent	Percent Change
OHIO					
Agriculture, forestry, fishing and hunting, and mining	54,903	1.0	55,424	1.0	0.95
Construction	301,725	5.6	300,741	5.4	-0.33
Manufacturing	859,548	16.0	856,557	15.3	-0.35
Wholesale trade	163,458	3.0	147,060	2.6	-10.03
Retail trade	626,512	11.7	638,630	11.4	1.93
Transportation and warehousing, and utilities	266,567	5.0	289,114	5.2	8.46
Information	105,502	2.0	87,583	1.6	-16.98
Finance and insurance, and real estate and rental and leasing	353,630	6.6	359,661	6.4	1.71
Professional, scientific, and management, and administrative and waste management	478,692	8.9	540,325	9.7	12.88
Educational services, and health care and social assistance	1,254,969	23.4	1,350,405	24.1	7.60
Arts, entertainment, and recreation, and accommodation and food services	454,730	8.5	511,118	9.1	12.40
Other services, except public administration	239,248	4.5	247,660	4.4	3.52
Public administration	210,373	3.9	211,166	3.8	0.38
Civilian employed population 16 years and over	5,369,857		5,595,444		4.20

Source: U.S. Census Bureau, American Community Survey 5-Year Estimates, Industry by Occupation for the Civilian Employed Population 2010-2019

Labor Force Overview

Figure 32 reports data for labor force eligibility and employment in Adams County from 2010 to 2019. In 2010, 10,561 individuals were employed in Adams County. This fell to 10,110 in 2012 and has stabilized around this level before increasing to 10,402 in 2019. On the other hand, the labor force size was decreasing between 2013 and 2017 with the rate of the decrease getting more severe over time. The labor force has since stabilized around 10,991 in 2019. Although, for the most part, these numbers have decreased from the 2010 levels, the gap between the labor force and the employed has shrunk, indicating that a larger percentage of people who wish to be employed have been able to find employment in 2019 than in 2010.

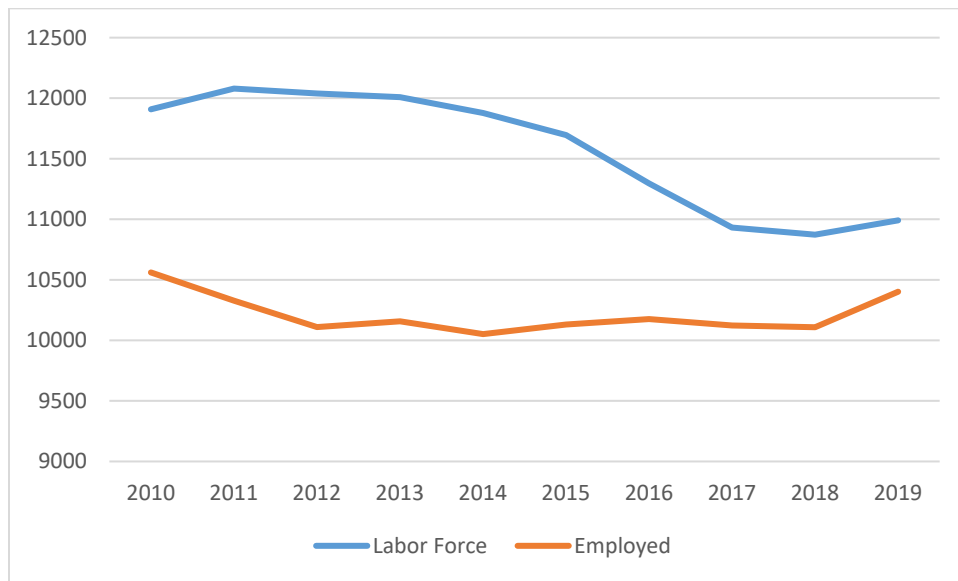
Figure 33 shows how Adams County's unemployment rate compares with Ohio and the United States. Adams County's unemployment rate has been consistently much higher than the state and national averages until 2019. Adams County experienced a reduction in unemployment from 2013 to 2019. However, it is important to note that during this time Adams County's labor force size was shrinking, while its employment remained relatively stable. In 2019, the unemployment rate for Adams County was only 0.1% higher than for Ohio and the United States.

To further examine how the unemployment rate decreased while the number of individuals employed remained stable, Figure 34 shows the participation rate of Adams County, Ohio, and the United States. The graph shows that while the state and national participation rates were nearly identical, Adams County's rate was significantly lower. From 2010 to 2015, Adams County's participation rate was about 10% lower than Ohio's rate. By 2019, Adams County's rate was about 13% lower than Ohio's rate. Additionally, while participation rates decreased for all three from 2013 to 2019, Adams County's rate decreased by 3.5%, while the state and national rates decreased by 1.6%.

To further explore why Adams County's rate was significantly lower, Figure 35 separates the county's participation rate by gender. Women have consistently had a lower participation rate than men in Adams County, with over an 8% difference between the genders in 2019. Additionally, the graph shows that male labor force participation was stable around 71% from 2011 to 2015. From 2015 to 2017, male participation rate fell 5.6%. It rose from 2017 to

2019 by 2.3%. Likewise, female labor force participation was stable around 63% from 2011 to 2013. From 2014 to 2017, the female participation rate fell by 5.6%. It rose as well from 2017 to 2019 by 2.5%. While male and female labor participation rate trends follow similar patterns, women are more likely to drop out of the labor force before men in an economic downturn but are just as likely to rejoin as men when the economy is an upturn.

Figure 32: Adams County Labor Force and Employment, 2010-2019³⁴



³⁴ Source: U.S. Census Bureau, American Community Survey 5-Year Estimates, 2010-2019

Figure 33: Unemployment Rate: Adams County, Ohio, and the United States, 2011-2019³⁵

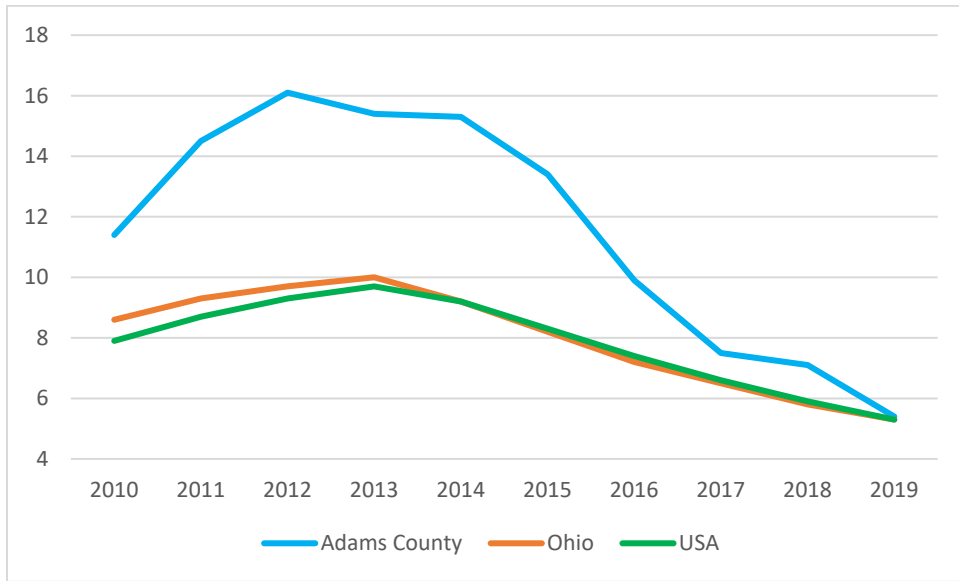
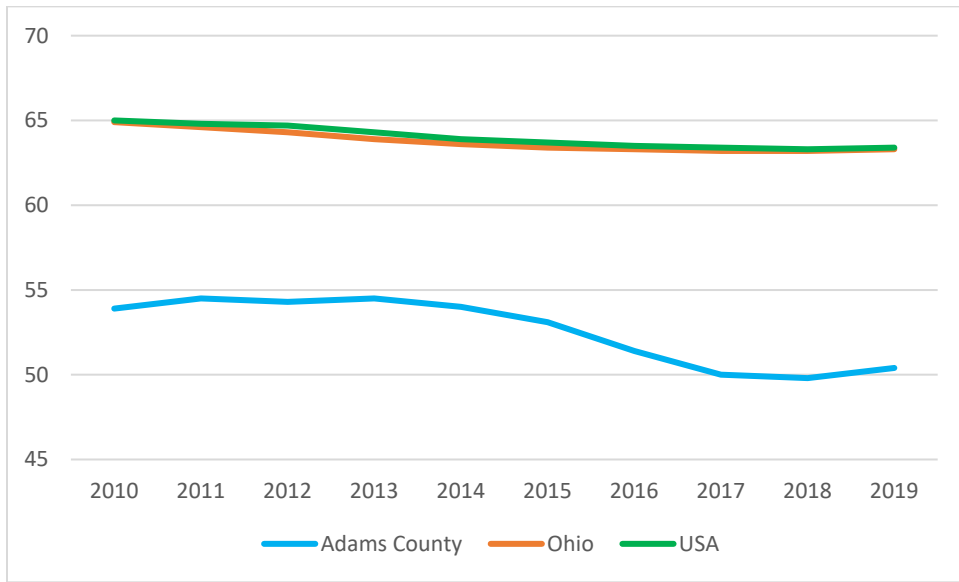


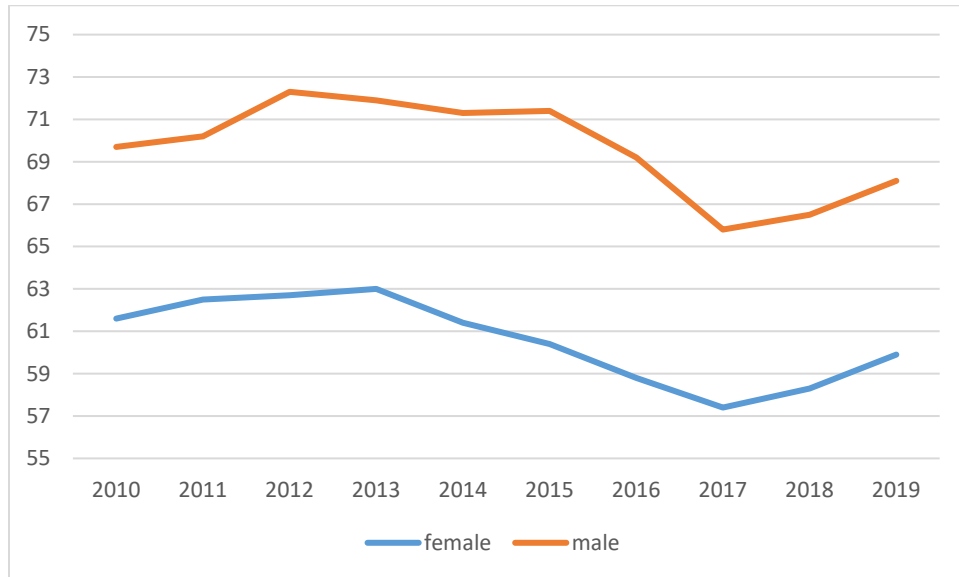
Figure 34: Participation Rate: Adams County, Ohio, and the United States, 2010-2019³⁶



³⁵ Source: U.S. Census Bureau, American Community Survey 5-Year Estimates, 2010-2019

³⁶ Source: U.S. Census Bureau, American Community Survey 5-Year Estimates, 2010-2019

Figure 35: Adams County Participation Rate by Gender, 2010-2019³⁷



Employed Resident Commute Shed

Figure 36 shows the distribution of Adams County residents' place of work by county. In 2015, there were 10,017 employed residents of Adams County. 59.1% of the employed Adams County residents stayed in-county to work. Of the 40.9% of residents who left the county to work, 7.6% commute to Clermont County. Additionally, 6.2% of residents leave the state of Ohio for work with 4.0% commuting to Mason County, Kentucky.

Figure 37 shows the distribution of the place of residence of those who work in Adams County. In 2015, there were 7,109 individuals employed in Adams County. 83.2% of individuals who work in Adams County also reside in Adams County. Of the 16.8% of individuals who reside in other counties, 4.5% of Adams County workers live in Brown County. Overall, Adams County experienced a net loss of 2,908 individuals to the commuting flow patterns.

³⁷ Source: U.S. Census Bureau, American Community Survey 5-Year Estimates, 2010-2019

Figure 36: Adams County Workforce Place of Work, 2011-2015³⁸

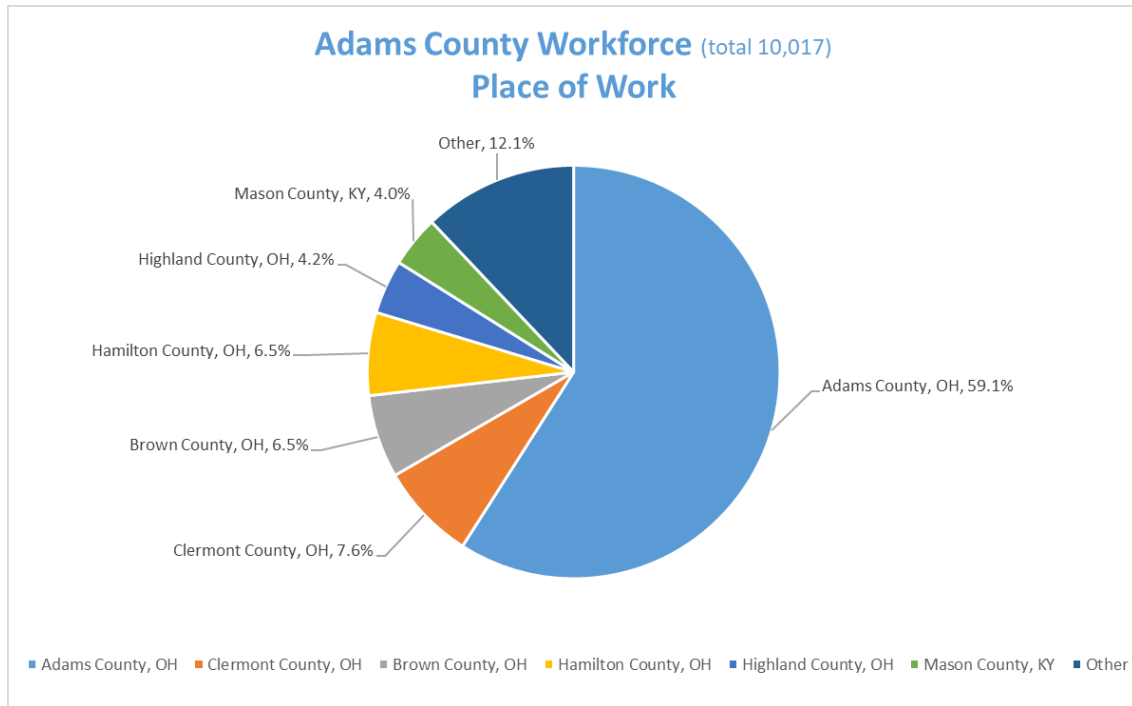
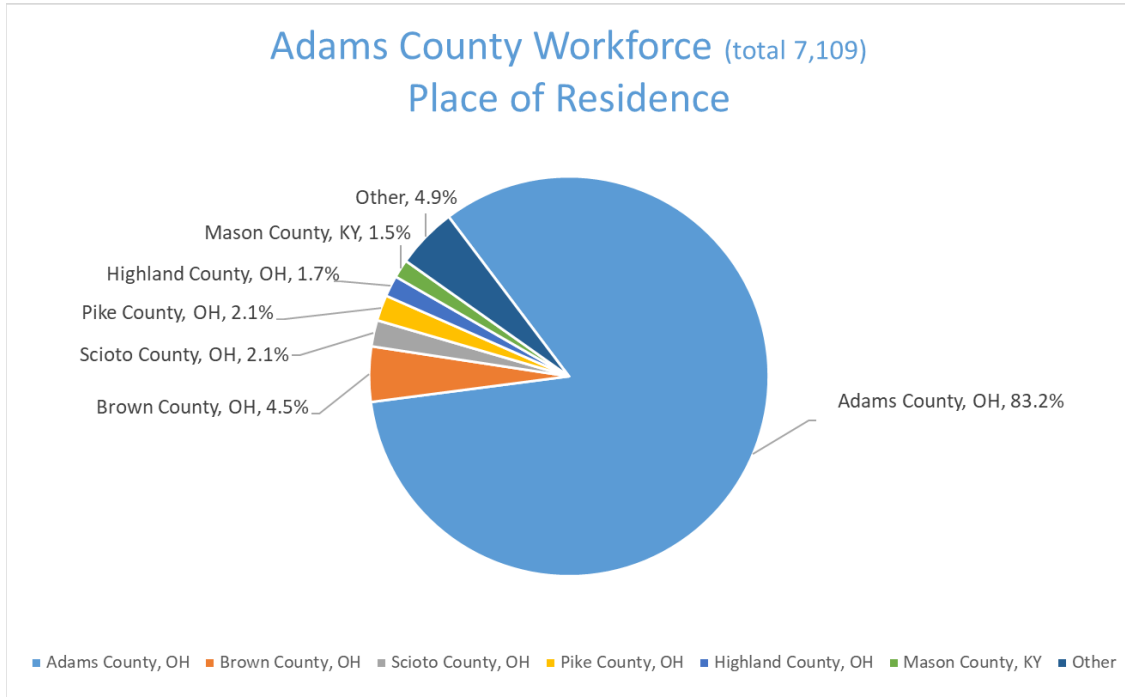


Figure 37: Adams County Workforce Place of Residence, 2011-2015³⁹



³⁸ Source: U.S. Census Bureau, 2011-2015 5-Year American Community Survey, Commuting Flows

³⁹ Source: U.S. Census Bureau, 2011-2015 5-Year American Community Survey, Commuting Flows