

Appendix H- Madison County Components

The 2023-2050 CORPO Transportation Plan is updated every five years and covers transportation needs for the entire region. The plan includes regional transportation goals, objectives, and performance measures, summarizes population and economic trends for the CORPO planning area, describes CORPO’s multimodal transportation system and its conditions, and identifies strategies and projects associated with the management and development of the CORPO transportation system.

This County Components appendix is intended to supplement the content in the 2023-2050 CORPO Transportation Plan document, providing a copy of the seven-county information included in the document, with a highlighted focus on data for Madison County.

Sections in this appendix correspond with chapters in the full document text. This appendix provides highlighted data for Madison County without additional analysis or context. For context and analysis about each measure provided in this appendix, reference the corresponding chapters of the full plan document, listed below.

- Madison County Population, Employment, and Households Overview- [Chapter 2, Regional Trends and Conditions](#)
- Madison County Transportation System- [Chapter 3, The Regional Transportation System](#)
 - [Appendix A: Inventory of Bridge Conditions](#), for a complete inventory of bridges and condition ratings as of 2023.
- Madison County Projects- [Chapter 4, Recommended Strategies and Projects](#)

H.1 Madison County Population, Employment, and Households Overview

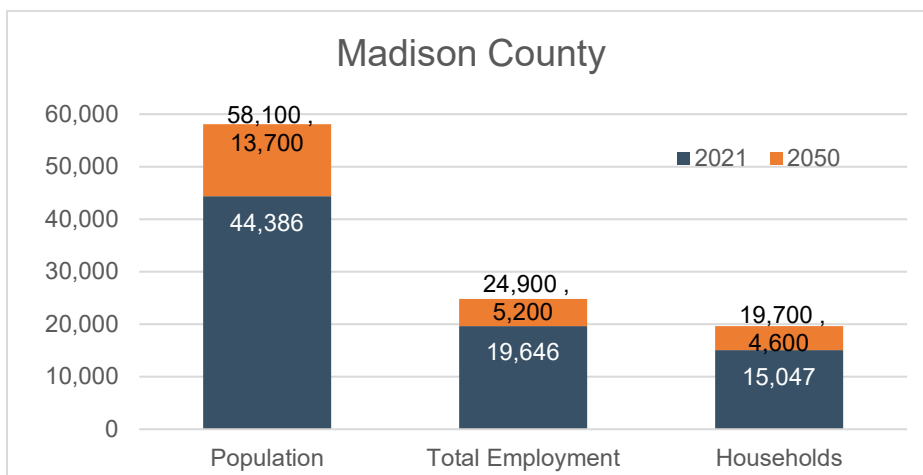
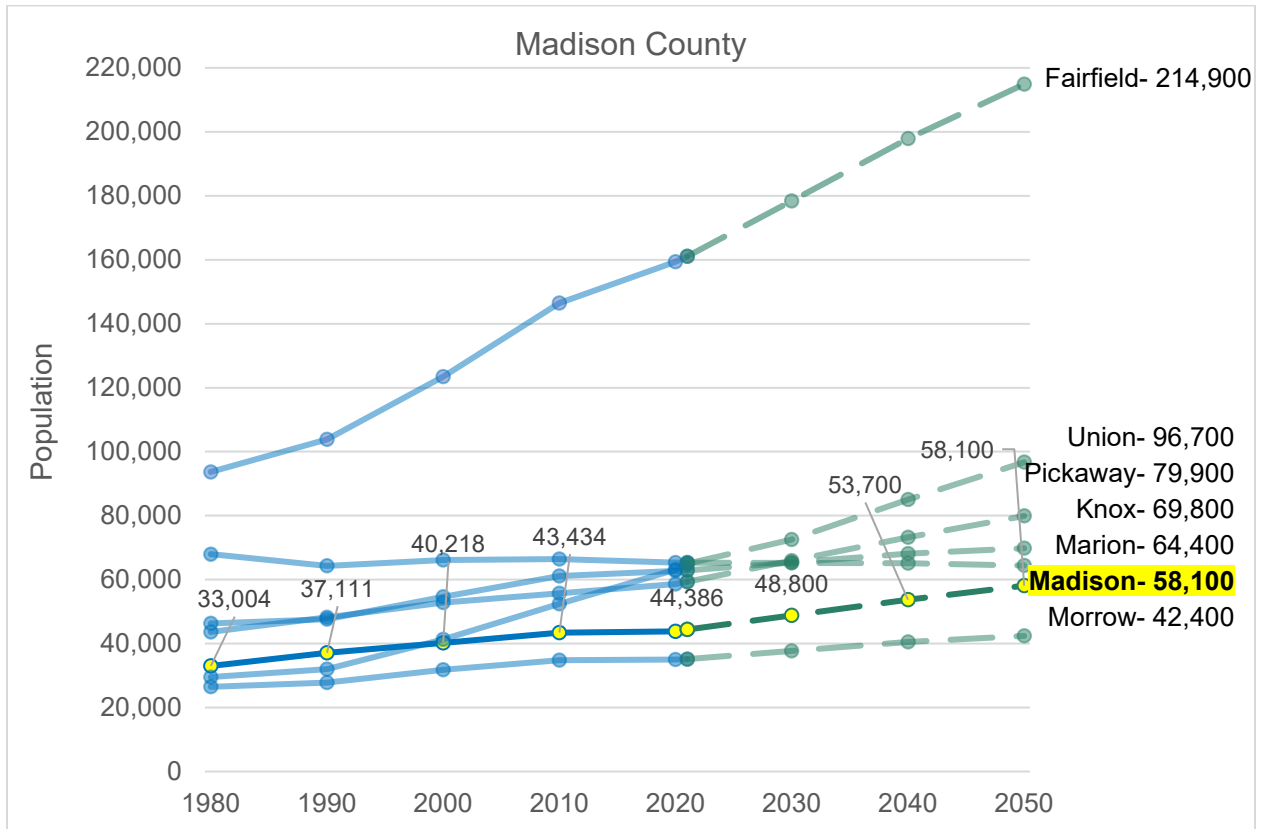


Figure H. 1 Projected Population, Households, and Jobs Growth

Source: MORPC Forecasts

*Forecasted population, employment, and households rounded to nearest 100

Characteristics of Population Growth



County	HISTORIC					FORECASTED		
	1980	1990	2000	2010	2021	2030	2040	2050
Total All CORPO	340,638	360,911	410,413	460,393	493,093	533,800	583,600	626,100
Fairfield	93,678	103,823	123,485	146,417	161,064	178,400	197,900	214,900
Union	29,536	32,010	41,338	52,464	64,971	72,500	85,000	96,700
Pickaway	43,662	48,257	52,808	55,740	59,333	65,900	73,200	79,900
Knox	46,304	47,637	54,616	61,090	62,897	65,300	68,100	69,800
Marion	67,974	64,289	66,135	66,458	65,291	65,200	65,100	64,400
Madison	33,004	37,111	40,218	43,434	44,386	48,800	53,700	58,100
Morrow	26,480	27,784	31,813	34,790	35,151	37,700	40,500	42,400

Figure H. 2 Population Growth, Historic and Forecasted

Source: Census Population Estimates Program & MORPC Population Forecasts

*Forecasted populations rounded to the nearest 100

County	Historic Growth Overview				Forecasted Growth Overview			
	1980 - 2021				2021 - 2050			
	Growth	% Growth	Period Annual Growth Rate	Period Annual Growth	Growth	% Growth	Period Annual Growth Rate	Period Annual Growth
Total ALL CORPO	152,455	45%	1%	3,718	133,007	27%	1%	4,586
Fairfield	67,386	72%	1%	1,644	53,836	33%	1%	1,856
Union	35,435	120%	2%	864	31,729	49%	1%	1,094
Pickaway	15,671	36%	1%	382	20,567	35%	1%	709
Knox	16,593	36%	1%	405	6,903	11%	0%	238
Marion	(2,683)	-4%	0%	(65)	(891)	-1%	0%	(31)
Madison	11,382	34%	1%	278	13,714	31%	1%	473
Morrow	8,671	33%	1%	211	7,249	21%	1%	250

Table H. 1 Population Growth Rates, Historic and Forecasted

Source: Census Population Estimates Program & MORPC Population Forecasts

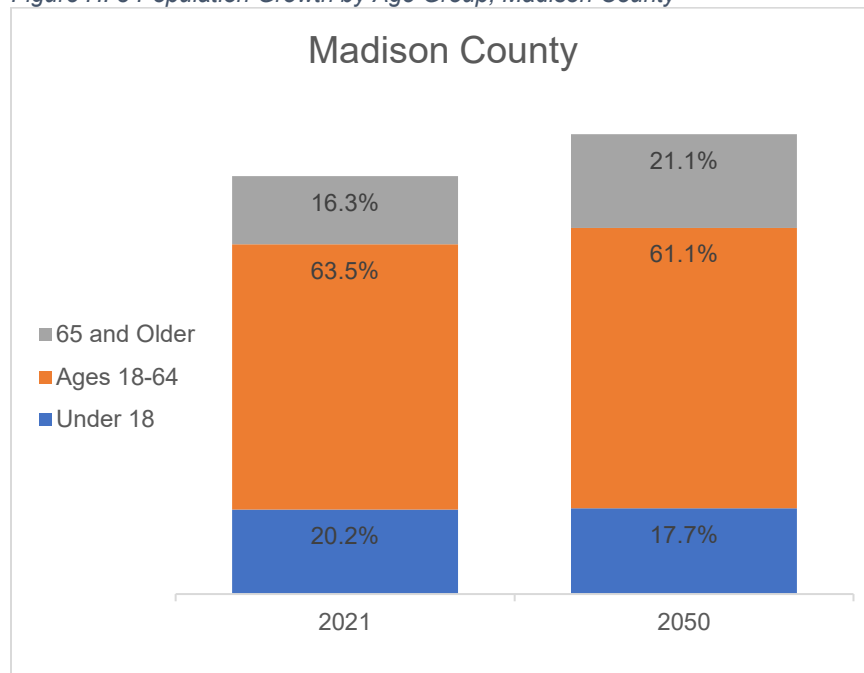
AGE

Table H. 2 Population Growth by Age Group

County	2021			2050		
	Under 18 %	18-64%	65+ %	Under 18 %	18-64%	65+ %
Total ALL CORPO	22.6%	60.6%	16.8%	22.2%	59.3%	18.5%
Fairfield	24.1%	60.0%	17.0%	24.1%	58.9%	17.0%
Knox	24.5%	57.3%	20.0%	24.5%	55.5%	20.0%
Madison	17.7%	63.5%	21.1%	17.7%	61.1%	21.1%
Marion	20.5%	60.2%	18.9%	20.5%	60.6%	18.9%
Morrow	18.8%	59.5%	24.7%	18.8%	56.5%	24.7%
Pickaway	19.0%	62.2%	19.7%	19.0%	61.3%	19.7%
Union	24.3%	62.8%	15.2%	24.3%	60.5%	15.2%

Source: Census Population Estimates Program & MORPC Population Forecasts

Figure H. 3 Population Growth by Age Group, Madison County

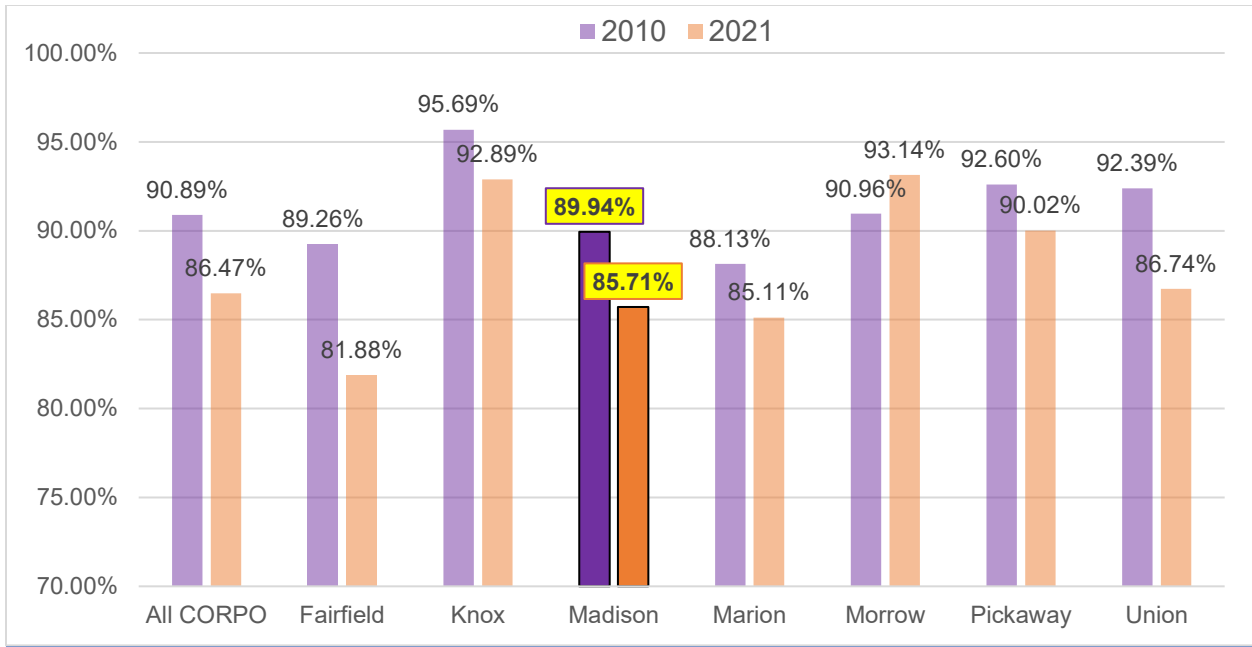


Source: Census Population Estimates Program & MORPC Population Forecasts

POPULATION DEMOGRAPHIC AND SOCIOECONOMIC FACTORS

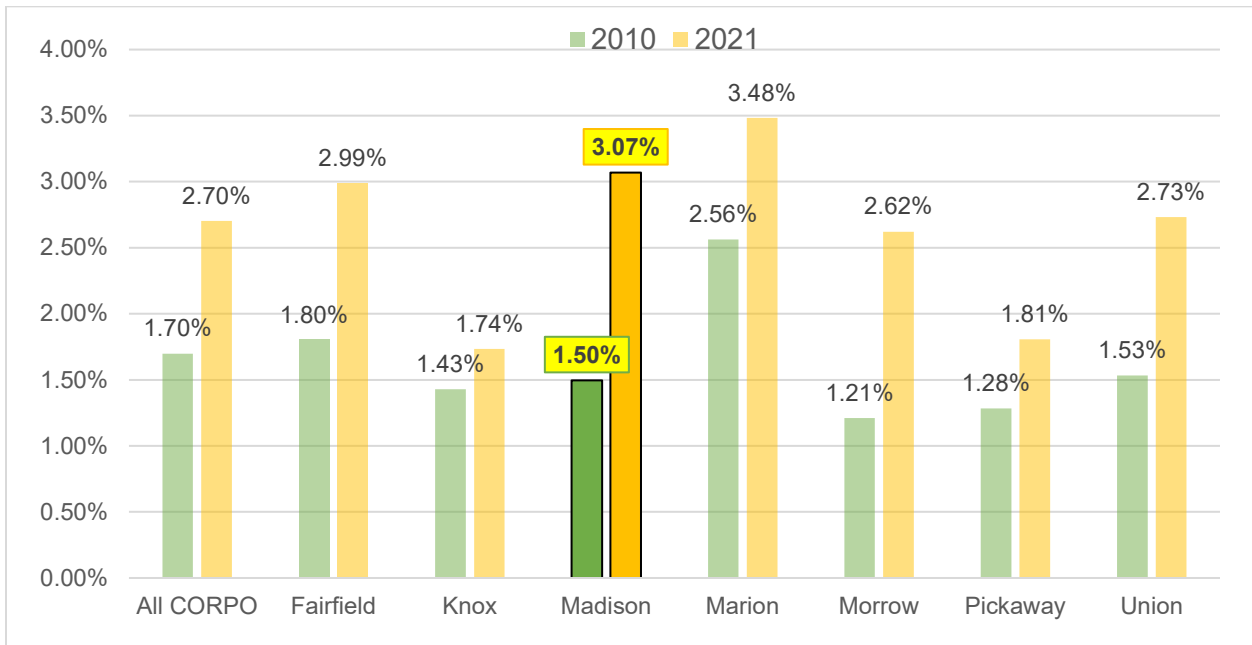
RACE AND ETHNICITY

Figure H. 4 Share of Population Identifying as White Alone, 2010 & 2021



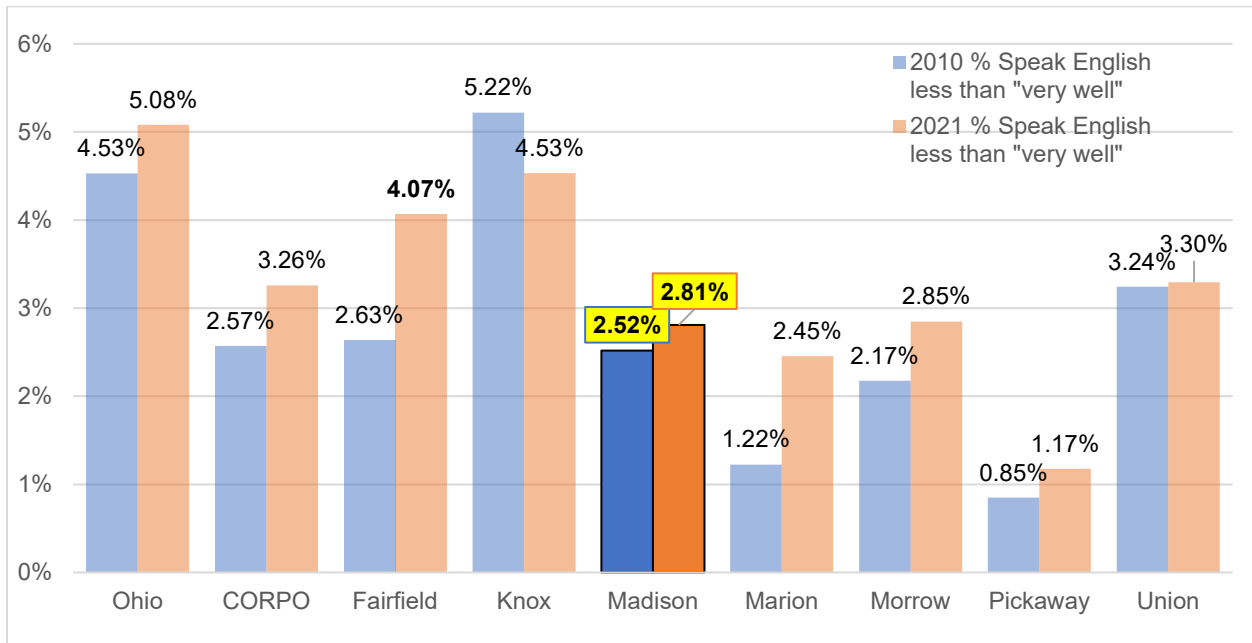
Source: American Community Survey, 5-Year Estimates
 *2006-2010 ACS 5-Year Estimate, 2017-2021 5-Year Estimate

Figure H. 5 Share of Population Identifying as Hispanic or Latino, 2010 & 2021



Source: American Community Survey, 5-Year Estimates
 *2006-2010 ACS 5-Year Estimate, 2017-2021 5-Year Estimate

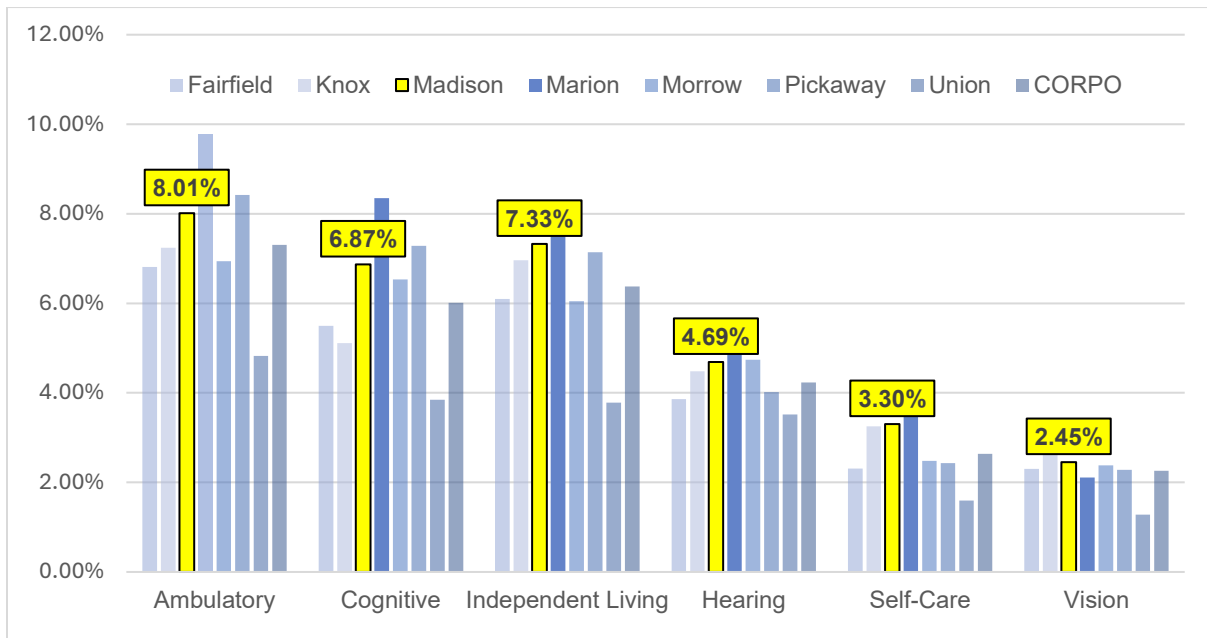
Figure H. 6 Percent of Population Age 5 years & over, LEP, 2010 & 2021



Source: American Community Survey, 5-Year Estimates
 *2006-2010 ACS 5-Year Estimate, 2017-2021 5-Year Estimate

DISABILITY STATUS

Figure H. 7 Percent of Population* with Denoted Disabilities by County, 2021

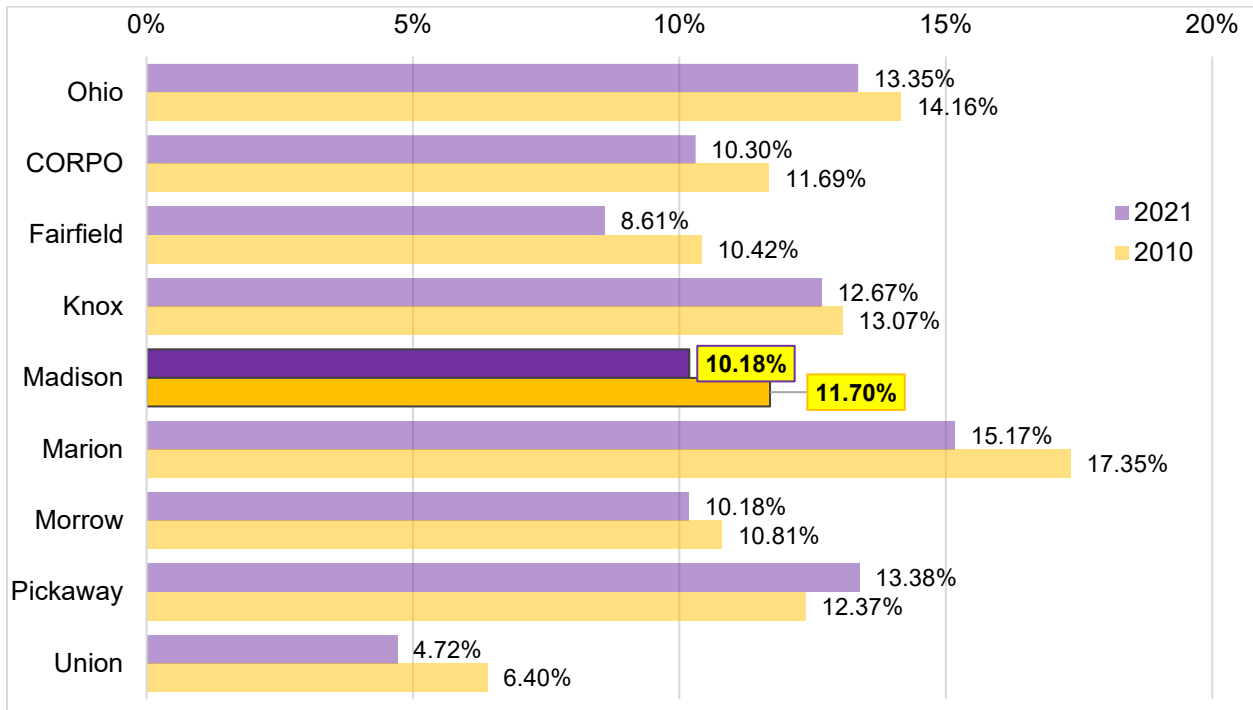


*Populations of Interest age groups- Ambulatory, Cognitive, and Self-Care disabilities cover populations over 5 years of age, independent living disability covers populations over 18 years of age, and hearing and vision disabilities cover all ages.

* Persons may have more than one denoted disability Source- American Community Survey 5-Year Population Estimates, **2017-2021

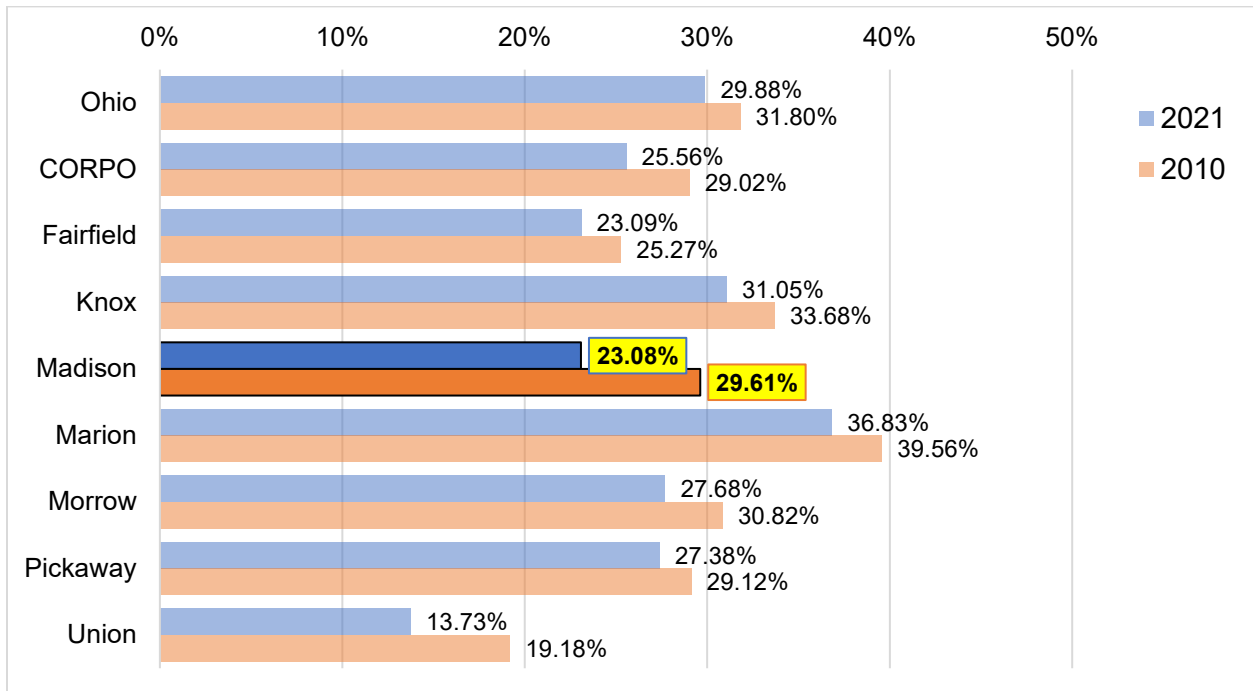
POPULATION IN POVERTY

Figure H. 8 Percent of Population under 100% Federal Poverty Line, 2010 & 2021



Source: American Community Survey, 5-Year Estimates
 *2006-2010 ACS 5-Year Estimate, 2017-2021 5-Year Estimate

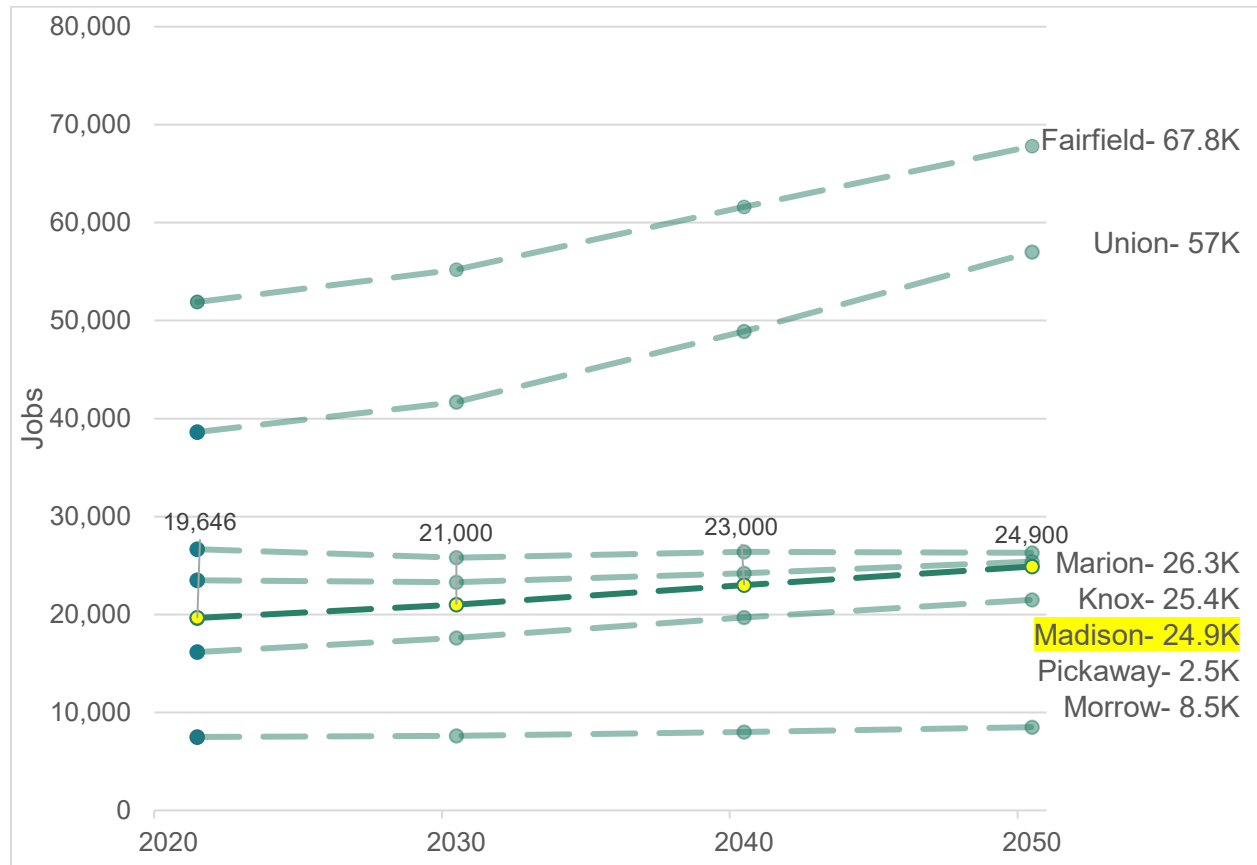
Figure H. 9 Percent of Population under 200% Federal Poverty Line, 2010 & 2021



Source: American Community Survey, 5-Year Estimates
 *2006-2010 ACS 5-Year Estimate, 2017-2021 5-Year Estimate

Characteristics of Employment Growth

Figure H. 10 Total Employment Trend, 2021-2050



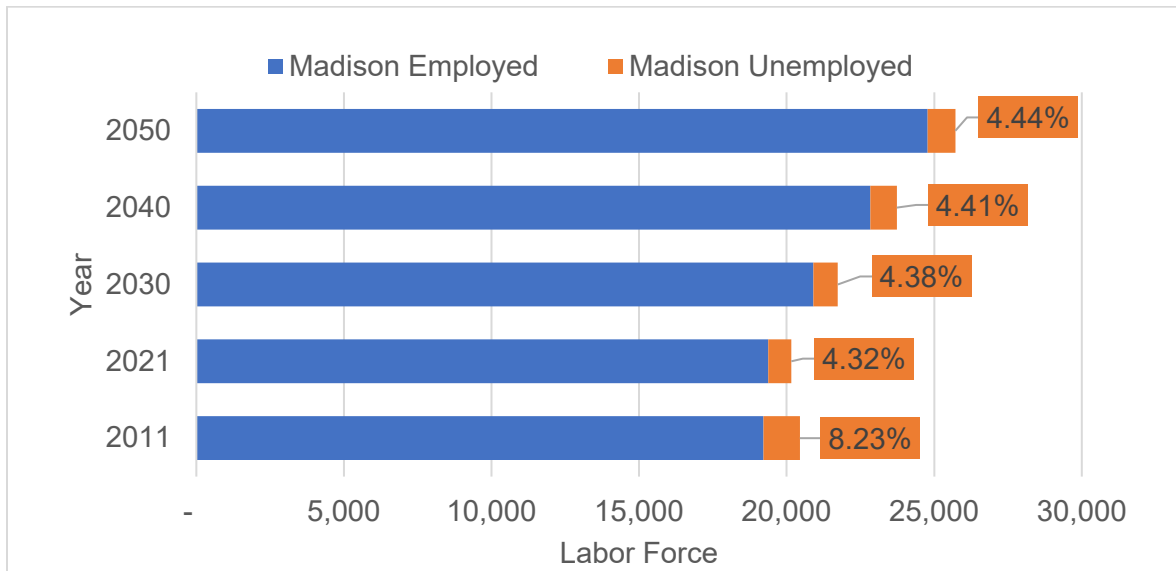
County	HISTORIC	FORECASTED		
	2021	2030	2040	2050
Total All CORPO	183,992	192,200	211,800	231,400
Fairfield	51,897	55,200	61,600	67,800
Union	38,627	41,700	48,900	57,000
Marion	26,665	25,800	26,400	26,300
Knox	23,493	23,300	24,200	25,400
Madison	19,646	21,000	23,000	24,900
Pickaway	16,165	17,600	19,700	21,500
Morrow	7,499	7,600	8,000	8,500

Source: MORPC Employment Forecasts

*Forecasted employment rounded to the nearest 100

UNEMPLOYMENT

Figure H. 11 Madison County Unemployment Historic & Projected



Source: American Community Survey, 5-Year Estimates 2007-2011; 2021-2050 MORPC Employment Forecasts

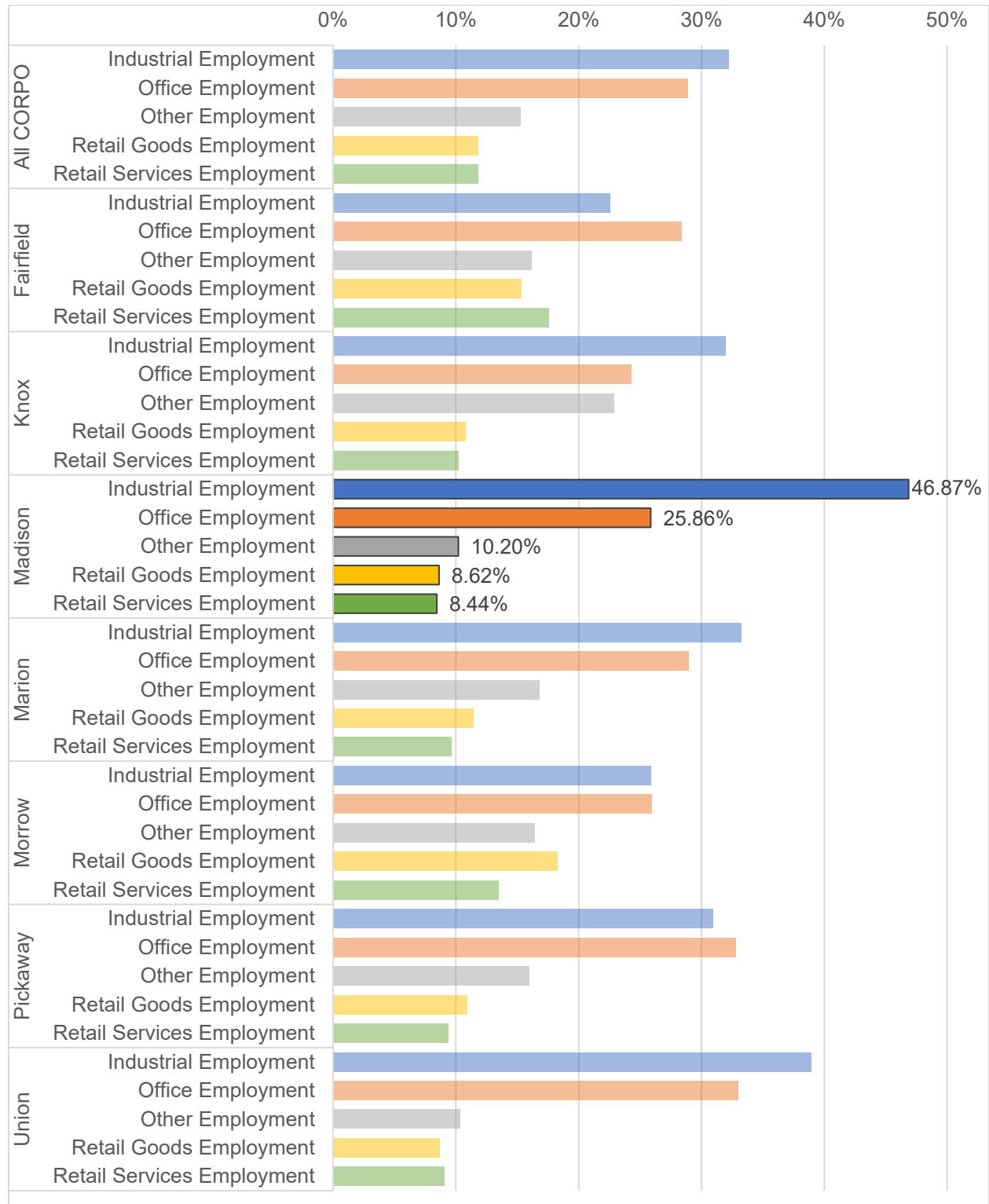
Table H. 3 Madison County Unemployment Compared to CORPO, Historic & Forecasted

County	Historic				Forecasted					
	2011		2021		2030		2040		2050	
	Labor Force	% Unemployed	Labor Force	% Unemployed	Labor Force	% Unemployed	Labor Force	% Unemployed	Labor Force	% Unemployed
Total All CORPO	224,685	7.58%	236,364	4.18%	249,400	4.15%	273,200	4.14%	297,100	4.09%
Fairfield	74,419	8%	80,424	4%	86,600	4%	96,100	4%	105,800	4%
Knox	30,742	8%	30,456	4%	30,400	4%	31,600	4%	33,100	4%
Madison	20,447	6%	20,158	4%	21,700	4%	23,700	4%	25,700	4%
Marion	30,892	9%	27,820	6%	27,100	6%	27,800	6%	27,600	6%
Morrow	17,568	7%	18,136	3%	18,700	3%	19,700	3%	20,900	3%
Pickaway	25,074	8%	26,311	4%	28,900	4%	32,100	4%	35,000	4%
Union	25,543	6%	33,059	3%	36,000	3%	42,000	3%	49,000	3%

Source: American Community Survey, 5-Year Estimates 2007-2011; 2021-2050 MORPC Employment Forecasts*
*2030-2050 forecasts rounded to the nearest 100

INDUSTRIES

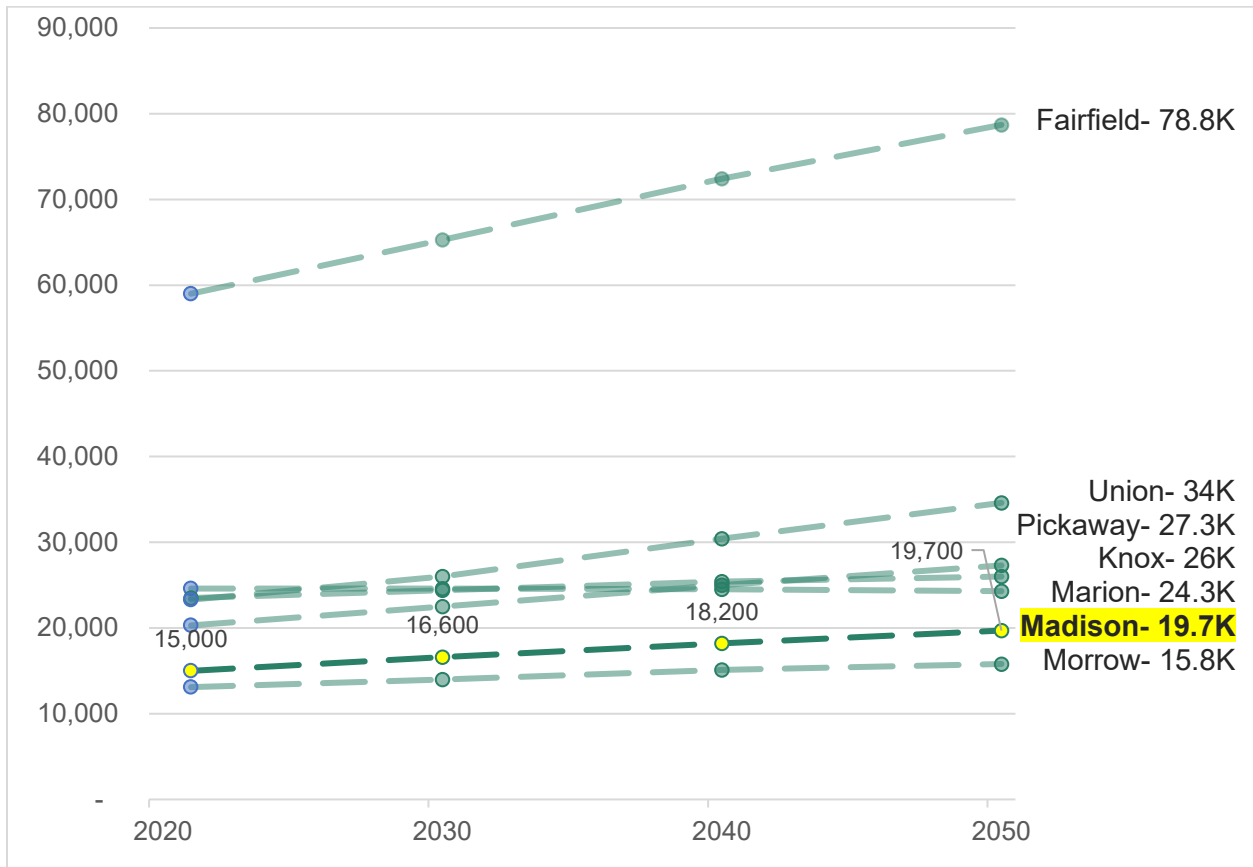
Figure H. 12 Share of Employment by Industry, 2021



Source: MORPC Employment Forecasts

Characteristics of Household Growth

Figure H. 13 Total Household Trend, 2021-2050



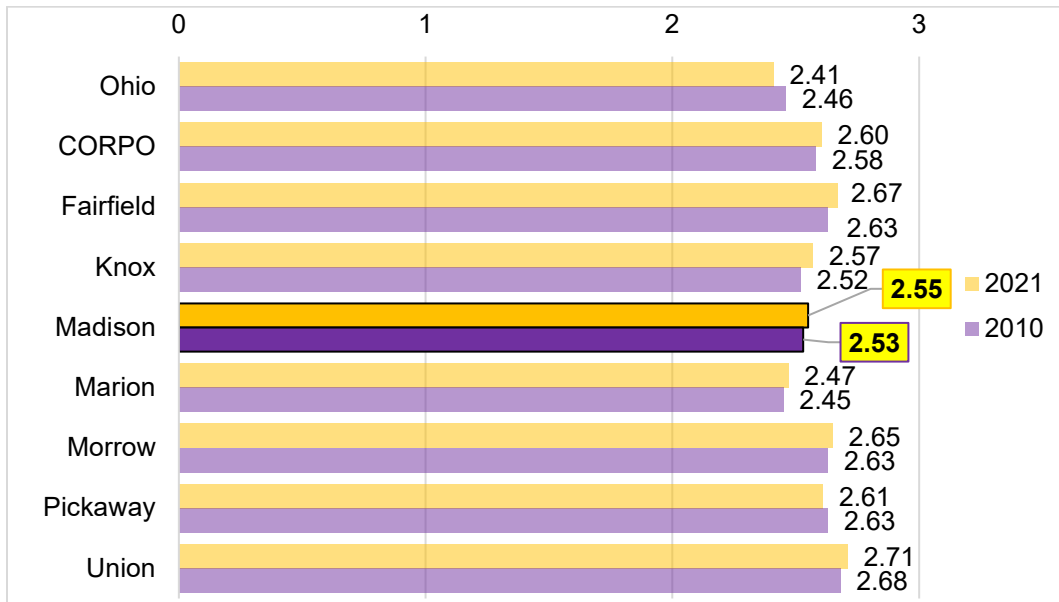
County	HISTORIC	FORECASTED		
	2021	2030	2040	2050
Total all CORPO	178,700	193,300	211,100	226,400
Fairfield	59,000	65,300	72,400	78,700
Marion	24,600	24,600	24,500	24,300
Knox	23,500	24,400	25,400	26,000
Union	23,300	26,000	30,400	34,600
Pickaway	20,300	22,500	25,000	27,300
Madison	15,000	16,600	18,200	19,700
Morrow	13,100	14,000	15,100	15,800

Source: MORPC Population Forecasts

*Forecasted households rounded to the nearest 100

HOUSEHOLD SIZE

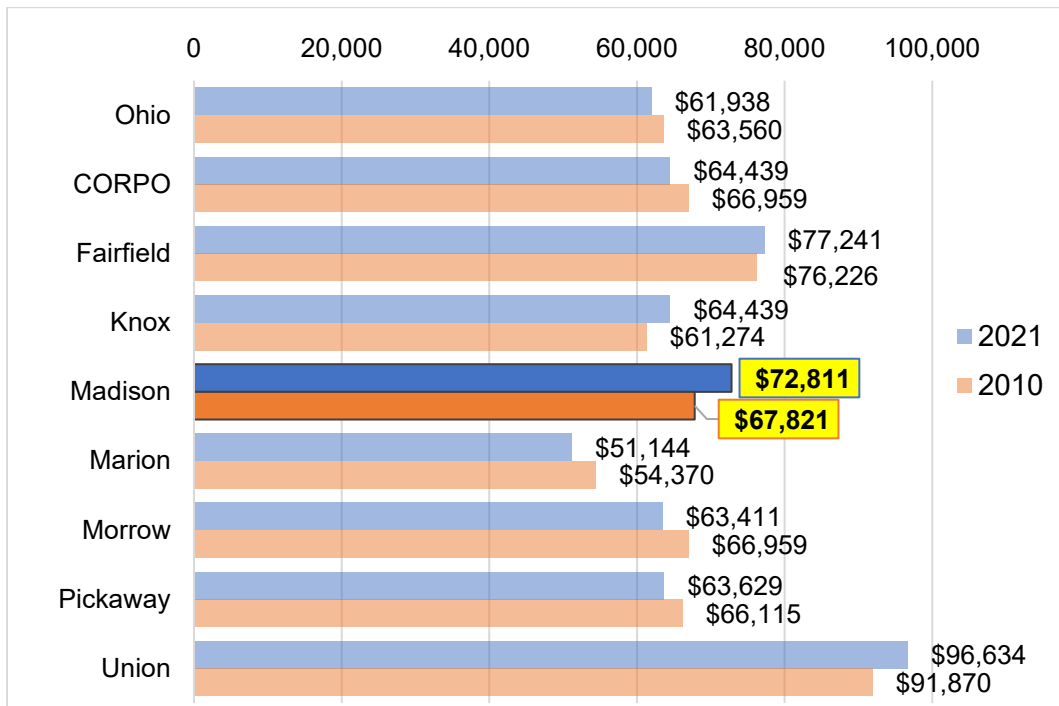
Figure H. 14 Household Size, 2010 & 2021



Source: American Community Survey, 5-Year Estimates
 *2006-2010 ACS 5-Year Estimate, 2017-2021 5-Year Estimate

HOUSEHOLD INCOME

Figure H. 15 Median Household Income, 2010 & 2021 (Inflation Adjusted to 2021 Dollars)

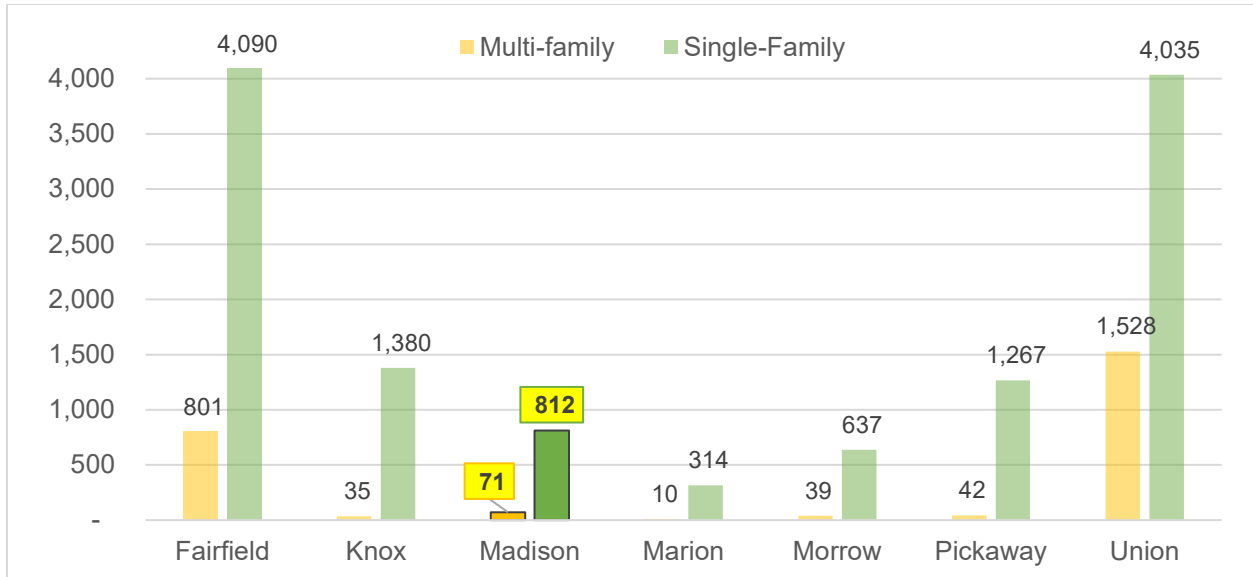


Source: American Community Survey, 5-Year Estimates
 *2006-2010 ACS 5-Year Estimate, 2017-2021 5-Year Estimate

Madison County Land Use and Development Patterns

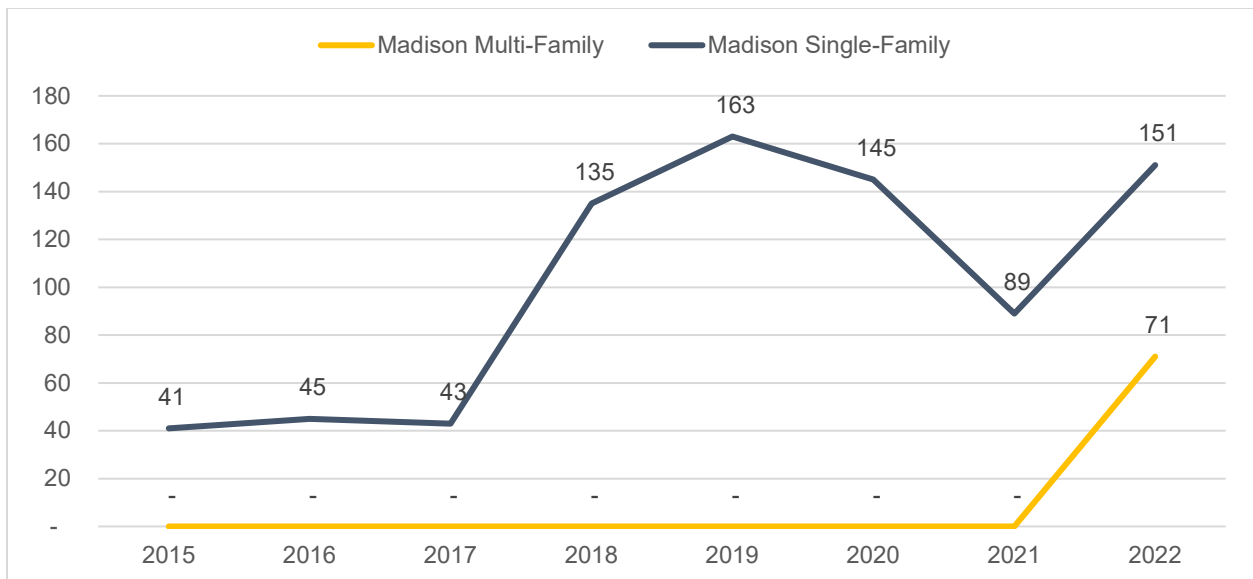
RESIDENTIAL DEVELOPMENT TRENDS

Figure H. 16 Total Residential Building Permits Issued, 2015-2021



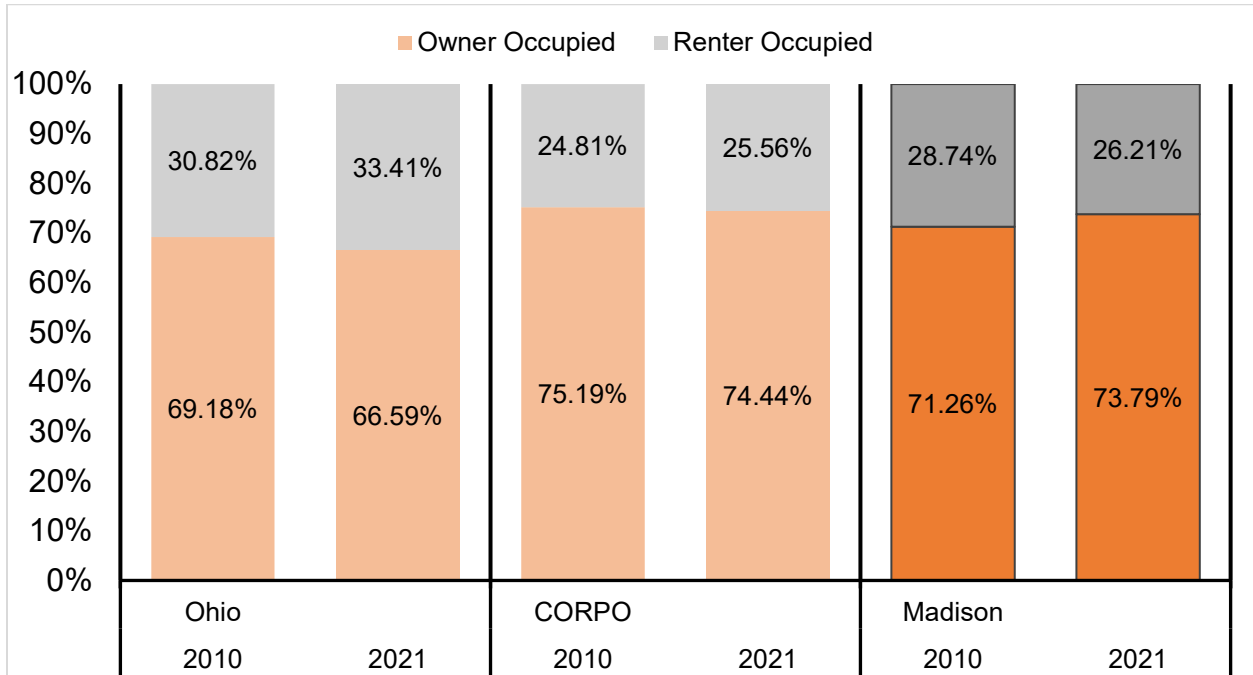
Source: Census Building Permit Survey Data, 2015 – 2021

Figure H. 17 Madison County Residential Permits Issued, 2015-2021

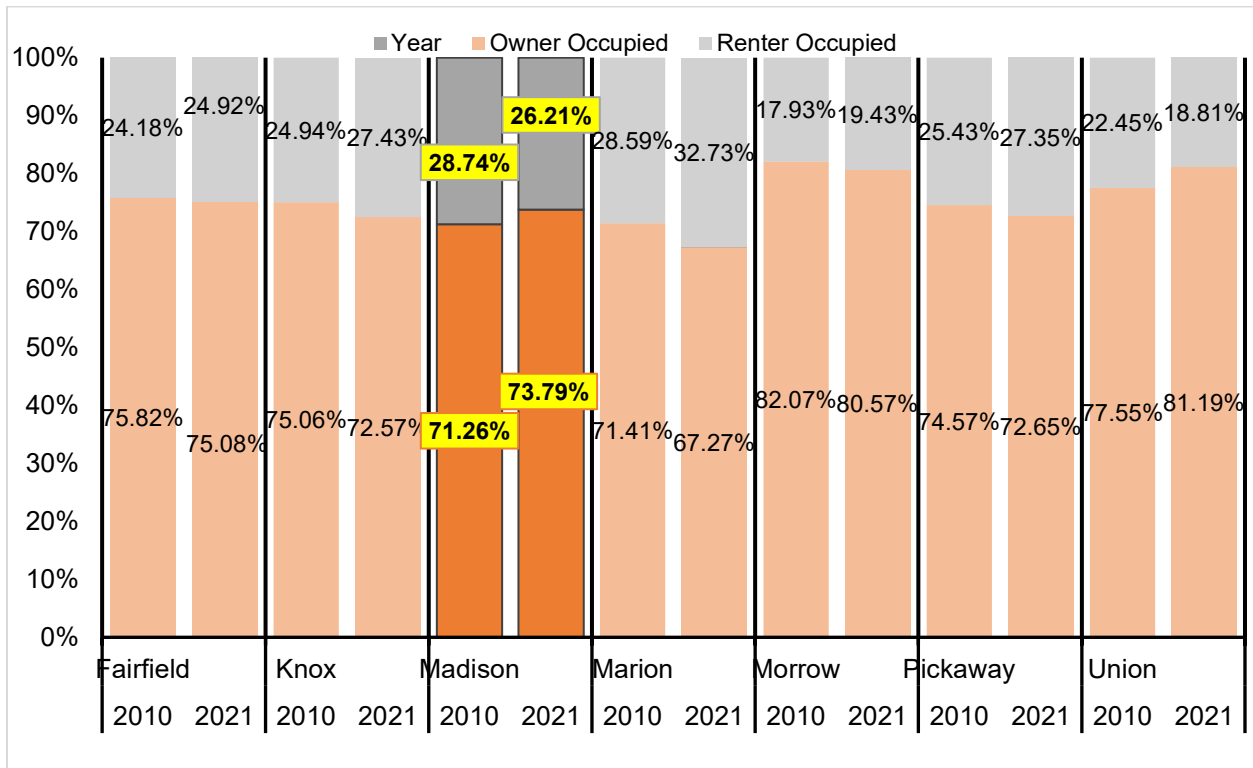


Source: Census Building Permit Survey Data, 2015 – 2021

Figure H. 18 Housing Tenure Ohio, CORPO, & Madison County, 2010 & 2021



Source: American Community Survey, 5-Year Estimates
 *2006-2010 ACS 5-Year Estimate, 2017-2021 5-Year Estimate
 Figure H. 19 Housing Tenure by County, 2010 & 2021



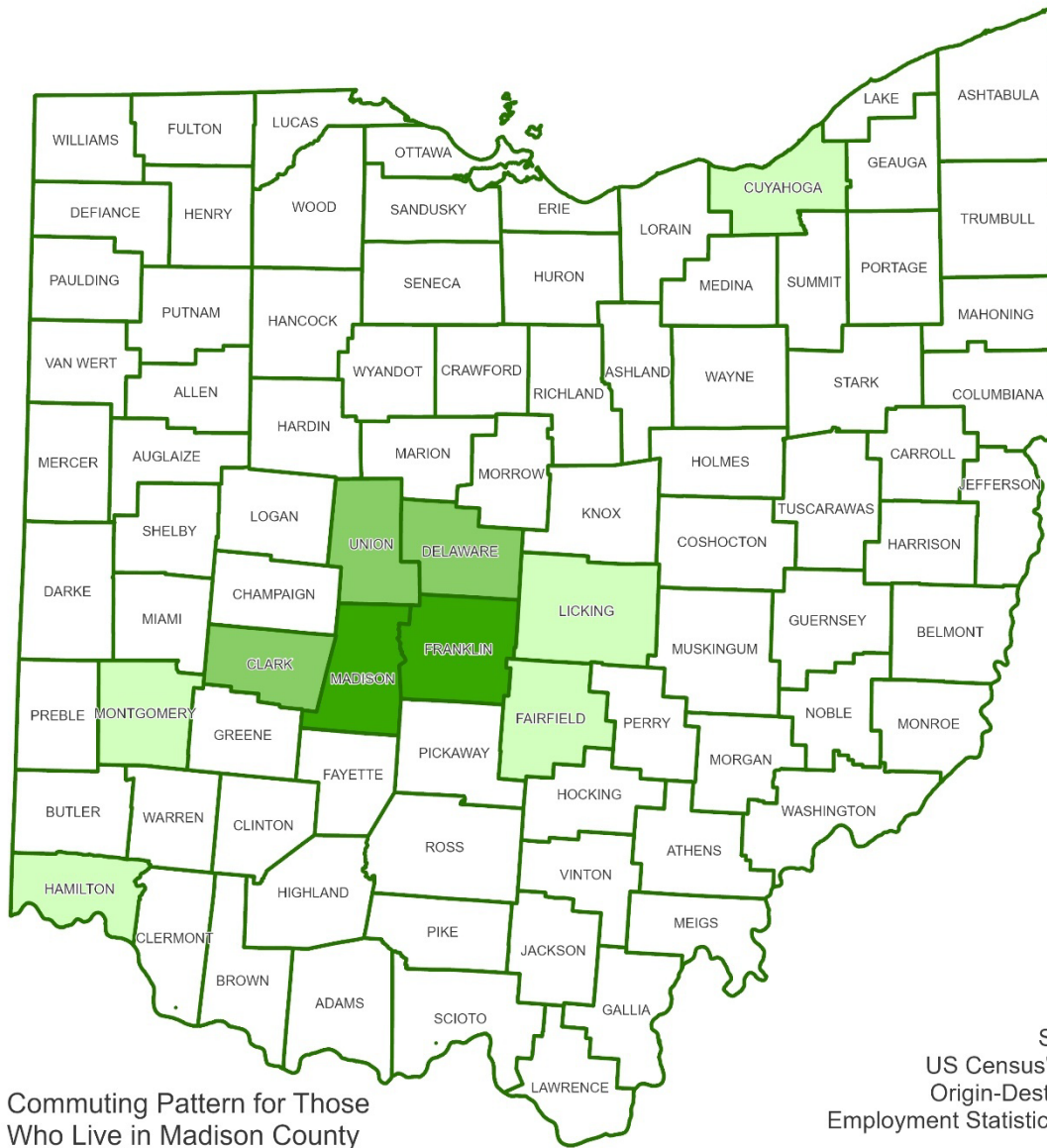
Source: American Community Survey, 5-Year Estimates
 *2006-2010 ACS 5-Year Estimate, 2017-2021 5-Year Estimate

REGIONAL TRAVEL PATTERNS

Figure H. 20 Commuting Pattern for Workers who Live in Madison County, 2020

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Madison County Commuter Data



- Number of Commuters
- Under 500
 - 500 - 2000
 - More than 2000

Source:
US Census' LEHD
Origin-Destination
Employment Statistics 2020

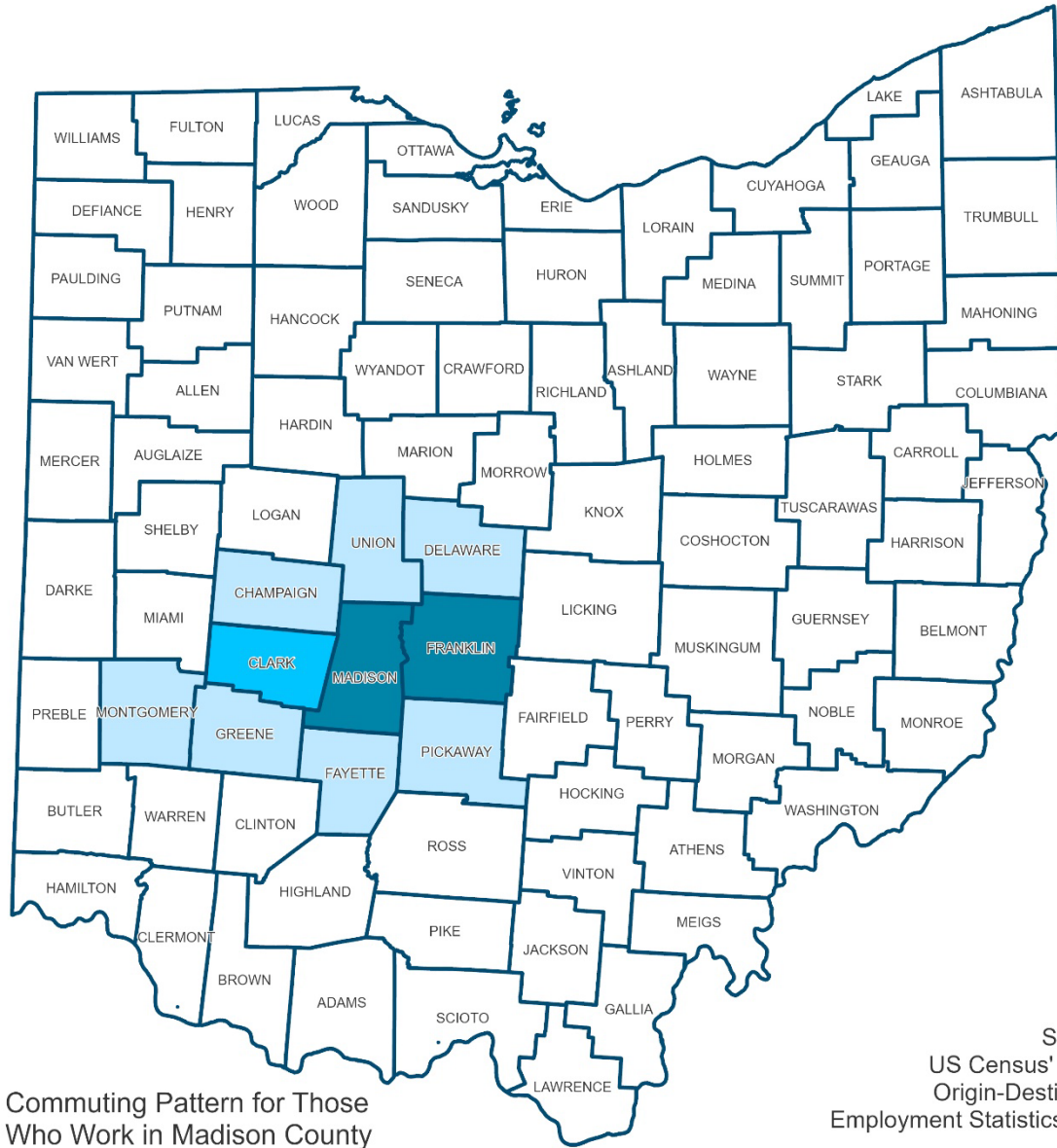


The information shown on this map is compiled from various sources available to us which we believe to be reliable.
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Figure H. 21 Commuting Patterns for Workers who Work in Madison County, 2020

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Madison County
Commuter Data



Number of Commuters

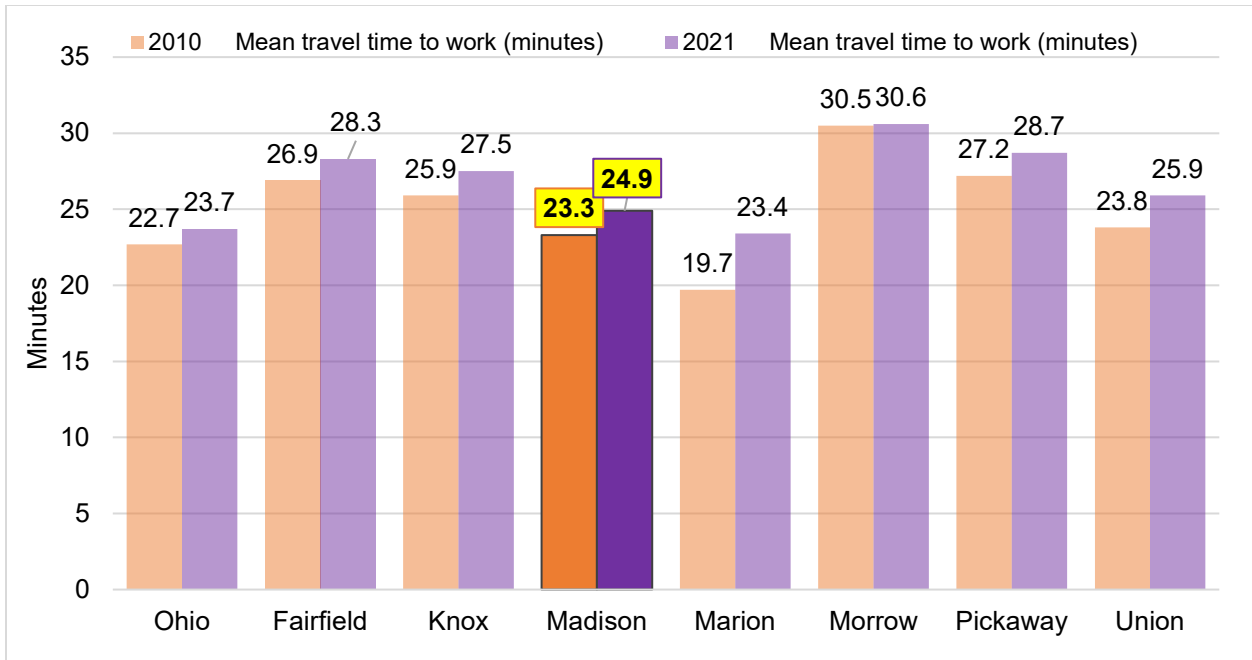
- Below 1500
- 1500 - 3000
- More than 3000

Source:
US Census' LEHD
Origin-Destination
Employment Statistics 2020



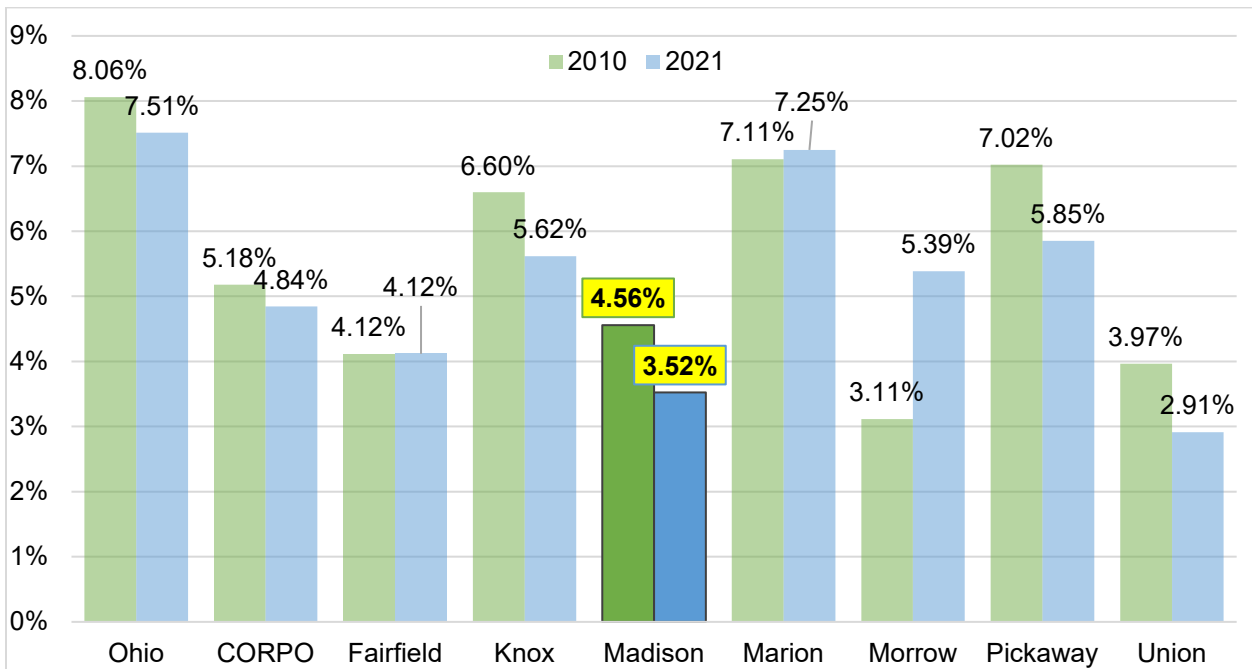
The information shown on this map is compiled from various sources available to us which we believe to be reliable.
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Figure H. 22 State & CORPO Mean Commute Times, 2010 & 2021



Source: American Community Survey, 5-Year Estimates
 *2006-2010 ACS 5-Year Estimate, 2017-2021 5-Year Estimate

Figure H. 23 Percent of Households with No Vehicle, 2010 & 2021



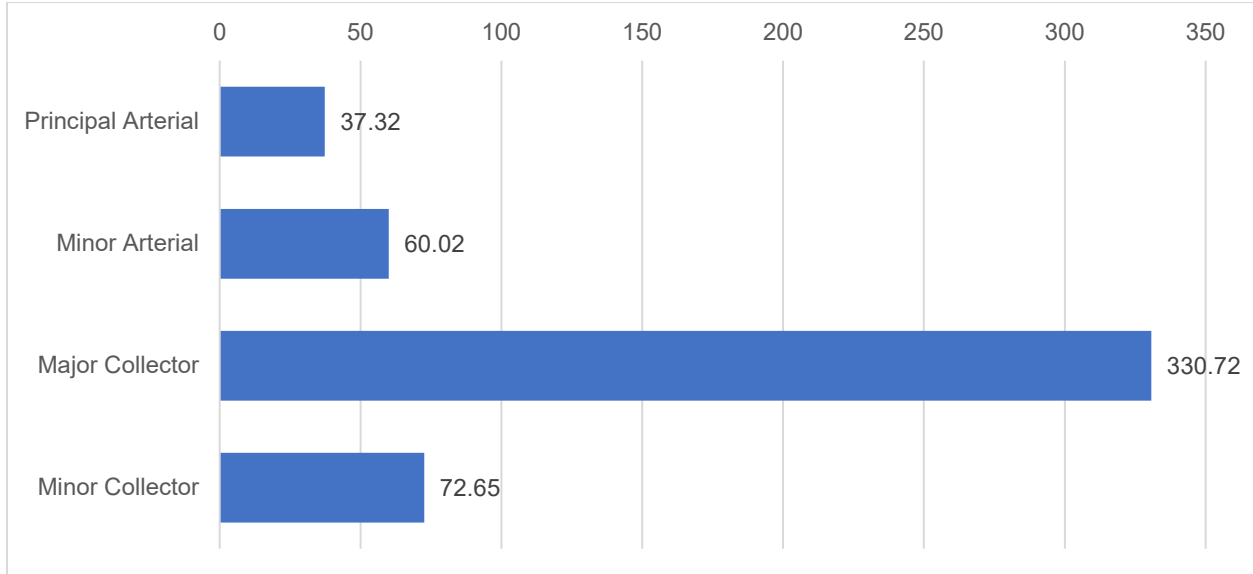
Source: American Community Survey, 5-Year Estimates
 *2006-2010 ACS 5-Year Estimate, 2017-2021 5-Year Estimate

H.2 Madison County Transportation System

Madison County Roadway System

FUNCTIONAL CLASSIFICATION

Figure H. 24 Madison County Sum of Lane Miles by Functional Classification, 2023



Source: ODOT TIMS

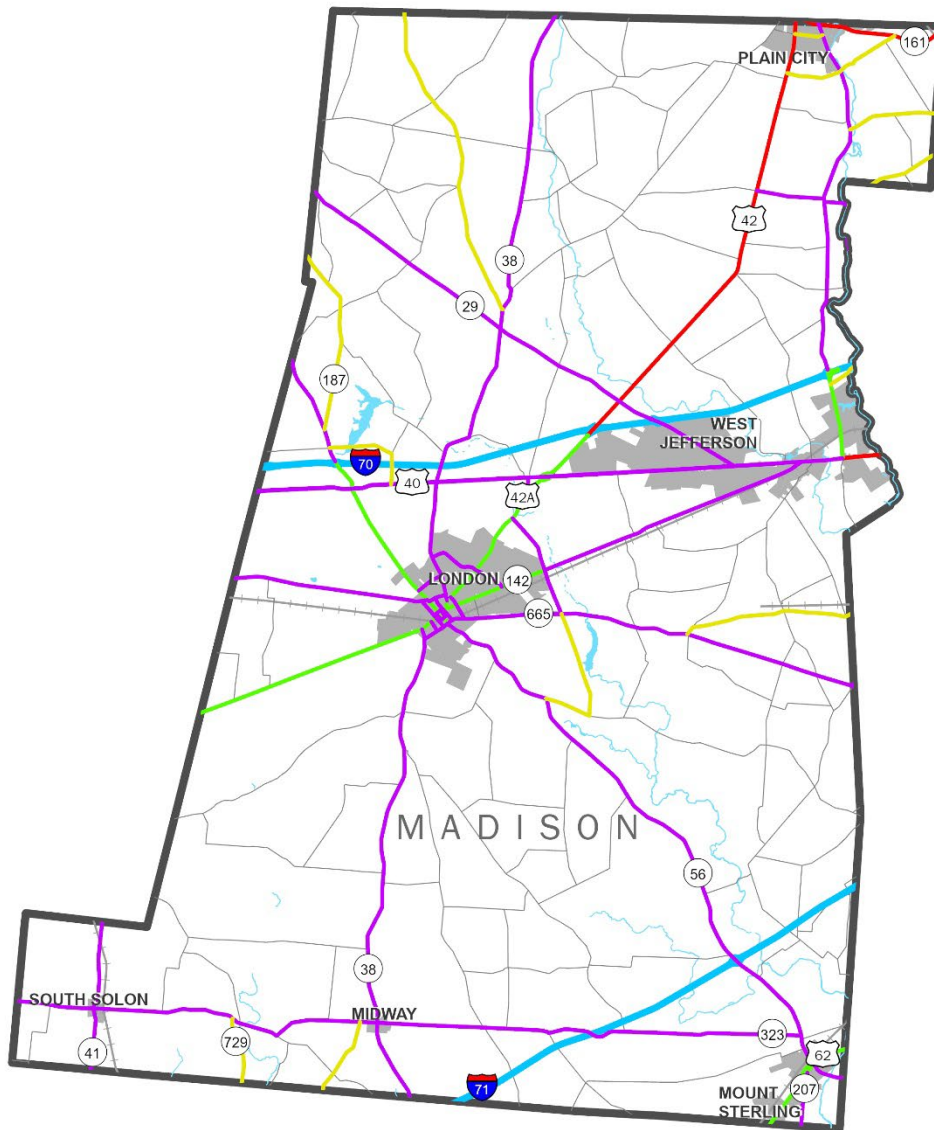
Table H. 4 Madison County Lane Miles by Functional Classification

County	Functional Classification Type	Functional Classification Code	Sum of Lane Miles	% of Total Lane Miles
MAD	Interstate	1	146.84	23%
MAD	Principal Arterial	3	37.32	6%
MAD	Minor Arterial	4	60.02	9%
MAD	Major Collector	5	330.72	51%
MAD	Minor Collector	6	72.65	11%
			647.55	100%

Figure H. 25 Madison County Roadway Functional Classification, 2022

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Road
Functional
Classification
Madison County



Functional Class

- Interstate
- Other Freeway and Expressway
- Principal Arterial
- Minor Arterial
- Major Collector
- Minor Collector

County Boundary



The information shown on this map is compiled from various sources available to us which we believe to be reliable.
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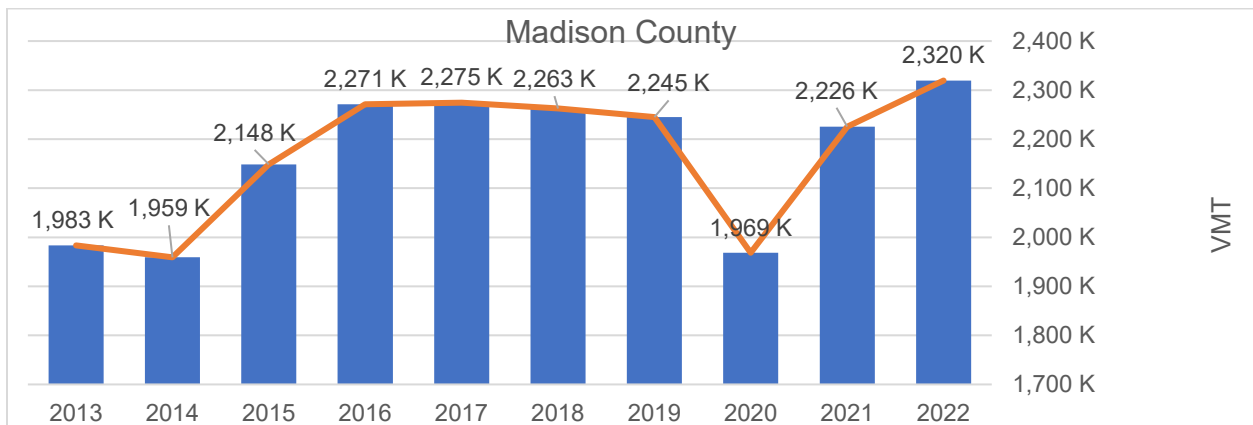
VEHICLE MILES TRAVELED (VMT)

Table H. 5 Madison County VMT & VMT Change by Year, 2013-2022

COUNTY:	MADISON	
YEAR	VMT	% CHANGE
2022	2,320 K	4.04%
2021	2,226 K	11.56%
2020	1,969 K	-14.04%
2019	2,245 K	-0.78%
2018	2,263 K	-0.53%
2017	2,275 K	0.15%
2016	2,271 K	5.40%
2015	2,148 K	8.81%
2014	1,959 K	-1.24%
2013	1,983 K	

Source: ODOT Traffic Monitoring, Daily Vehicle Miles Traveled, 2013-2022

Figure H. 26 Madison County VMT by Year, 2013-2022

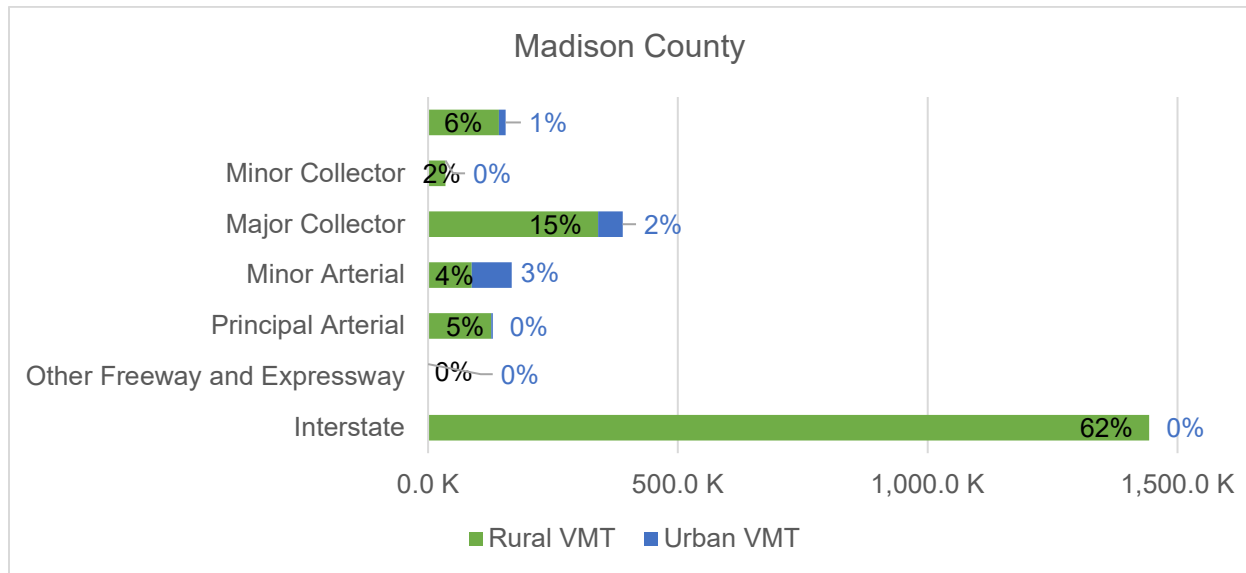


Source: ODOT Traffic Monitoring, Daily Vehicle Miles Traveled, 2013-2022

Table H. 6 VMT & VMT Change by County, 2013 & 2022

COUNTY	VMT		% Change
	2013	2022	
Total All CORPO	13,263.97 K	14,608.92 K	10.1%
Fairfield	3.16 K	3.23 K	2.2%
Knox	1.11 K	1.15 K	4.0%
Madison	1.98 K	2.32 K	16.9%
Marion	1.70 K	1.50 K	-11.5%
Morrow	1.71 K	1.93 K	12.9%
Pickaway	1.80 K	1.91 K	6.4%
Union	1.80 K	2.56 K	42.1%

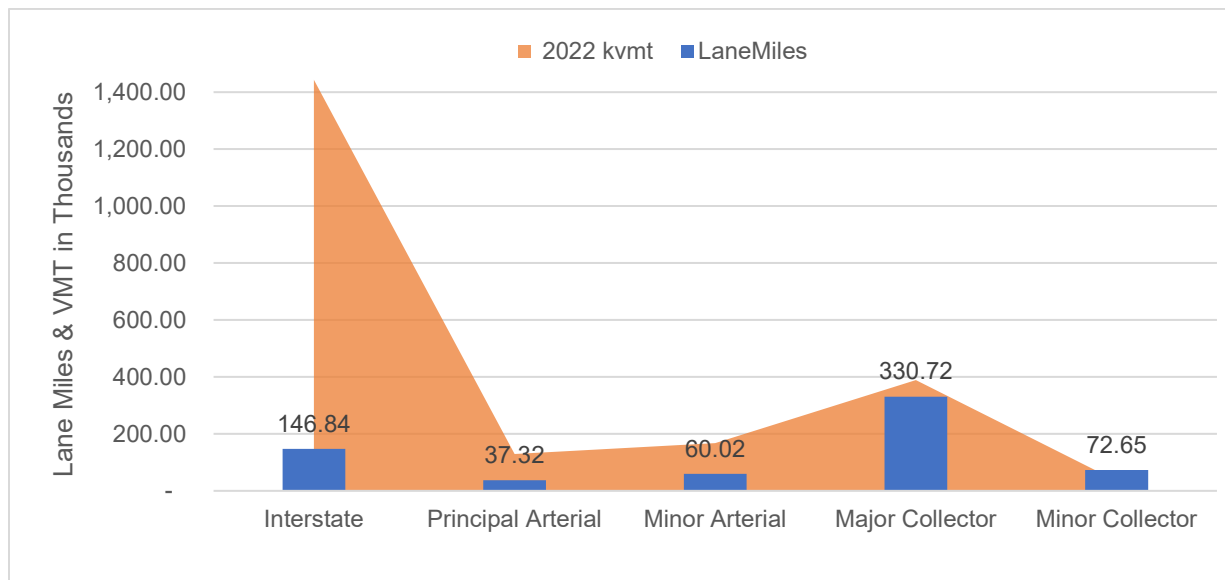
Source: ODOT Traffic Monitoring, Daily Vehicle Miles Traveled, 2013-2022
 Figure H. 27 2022 Madison County VMT by Functional Classification



COUNTY: Madison		Rural VMT	% of Total	Urban VMT	% of Total
1	Interstate	1,443,400	62%	-	0%
2	Other Freeway and Expressway	-	0%	-	0%
3	Principal Arterial	126,520	5%	2,980	0%
4	Minor Arterial	87,520	4%	79,650	3%
5	Major Collector	340,390	15%	49,080	2%
6	Minor Collector	34,910	2%	-	0%
7	Local	141,910	6%	13,160	1%
Total		2,174,662	94%	144,864.00	6%

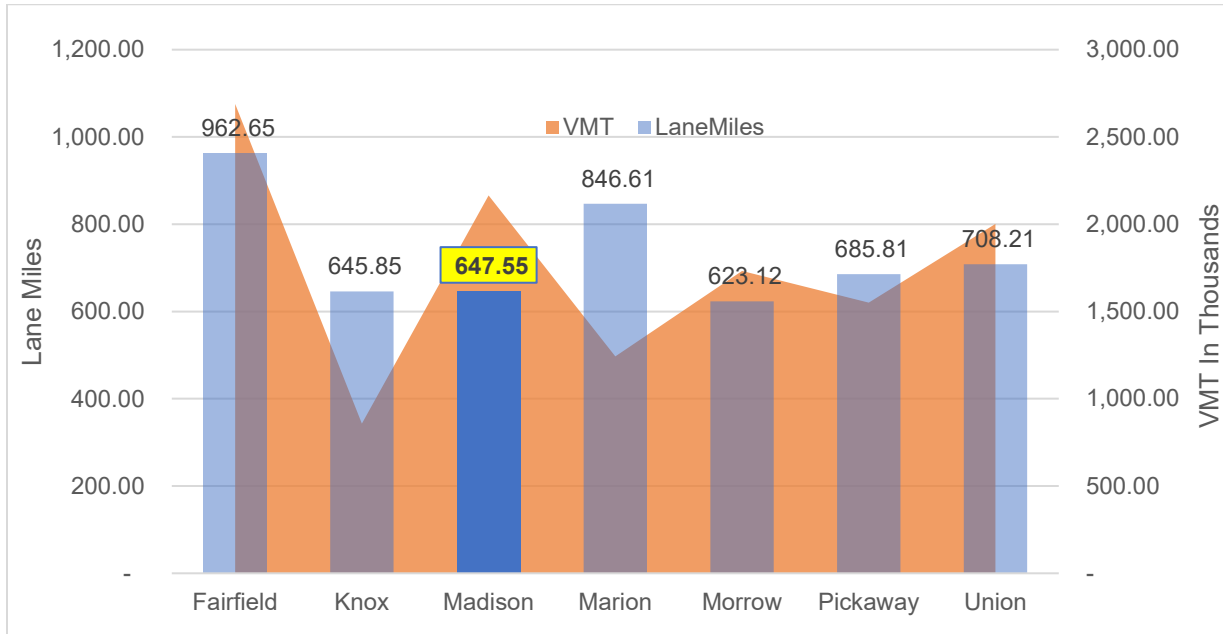
Source: ODOT Traffic Monitoring, Daily Vehicle Miles Traveled, 2022

Figure H. 28 2022 Madison County Lane Miles & VMT by Functional Class



Source: ODOT TIMS and ODOT Traffic Monitoring, Daily Vehicle Miles Traveled, 2022

Figure H. 29 2022 Lane Miles and VMT by CORPO County



Source: ODOT TIMS and ODOT Traffic Monitoring, Daily Vehicle Miles Traveled, 2022

CONGESTION

Figure H. 30 Madison County AM Peak Congestion, 2023

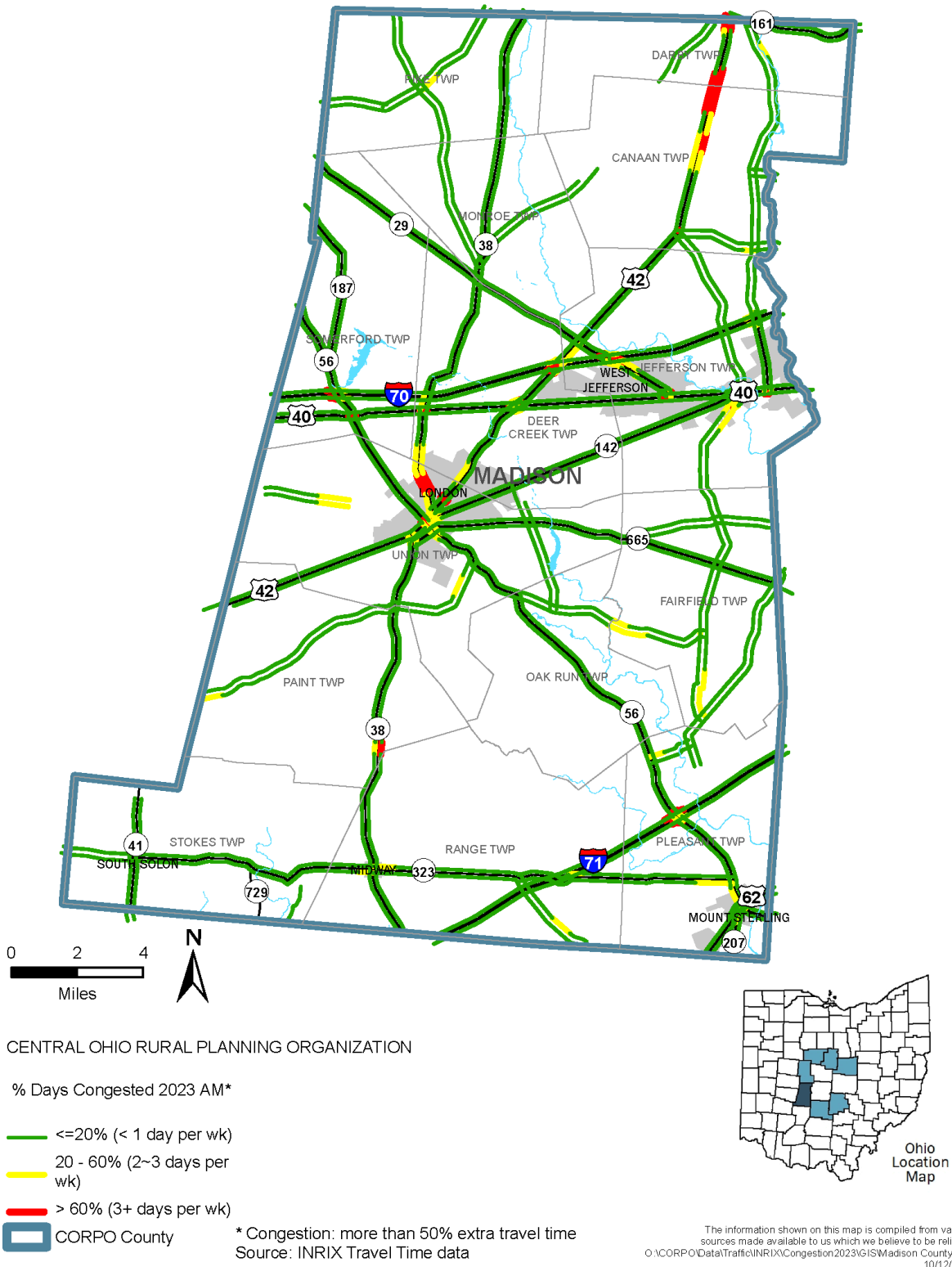
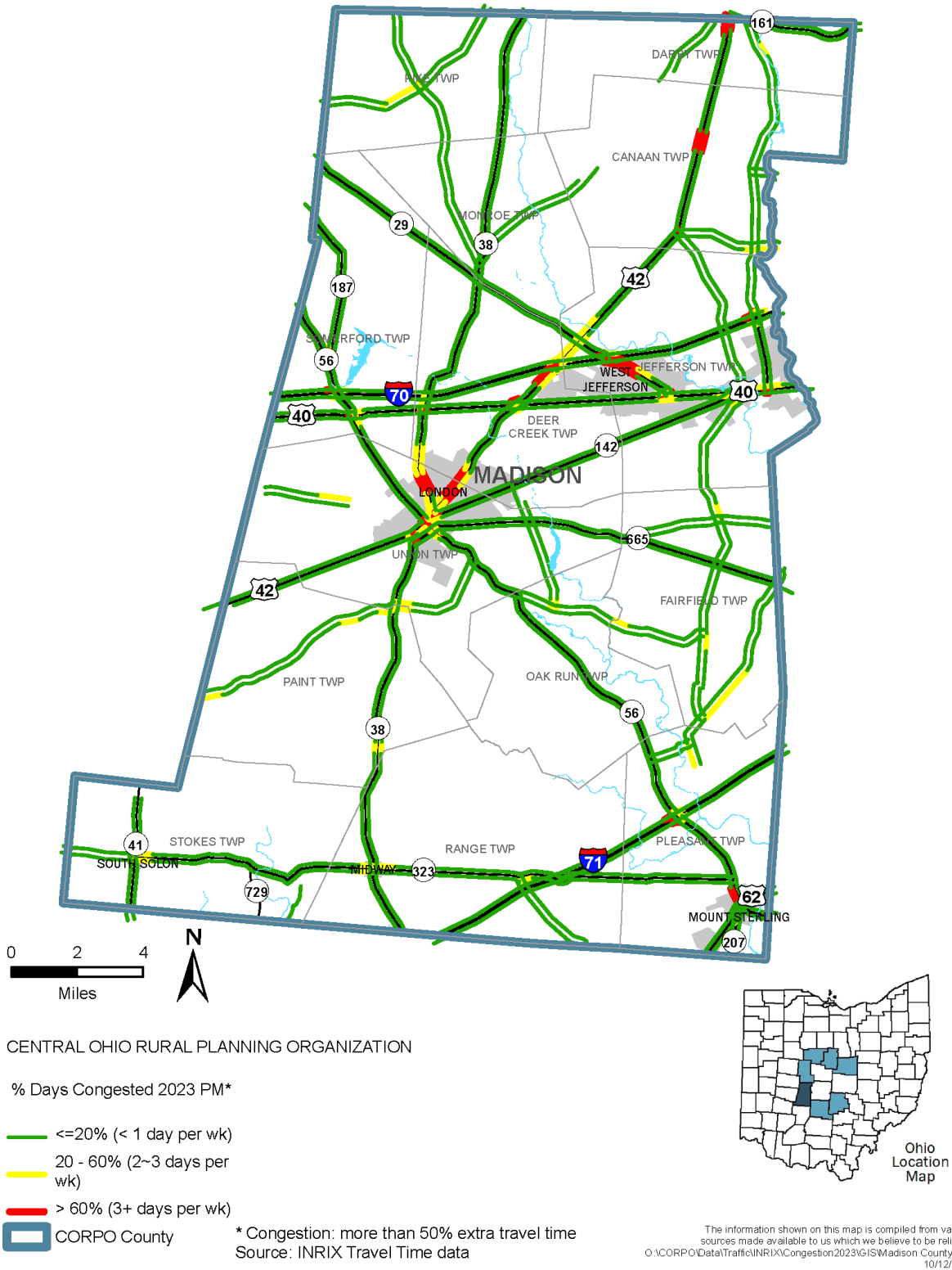


Figure H. 31 Madison County PM Peak Congestion, 2023



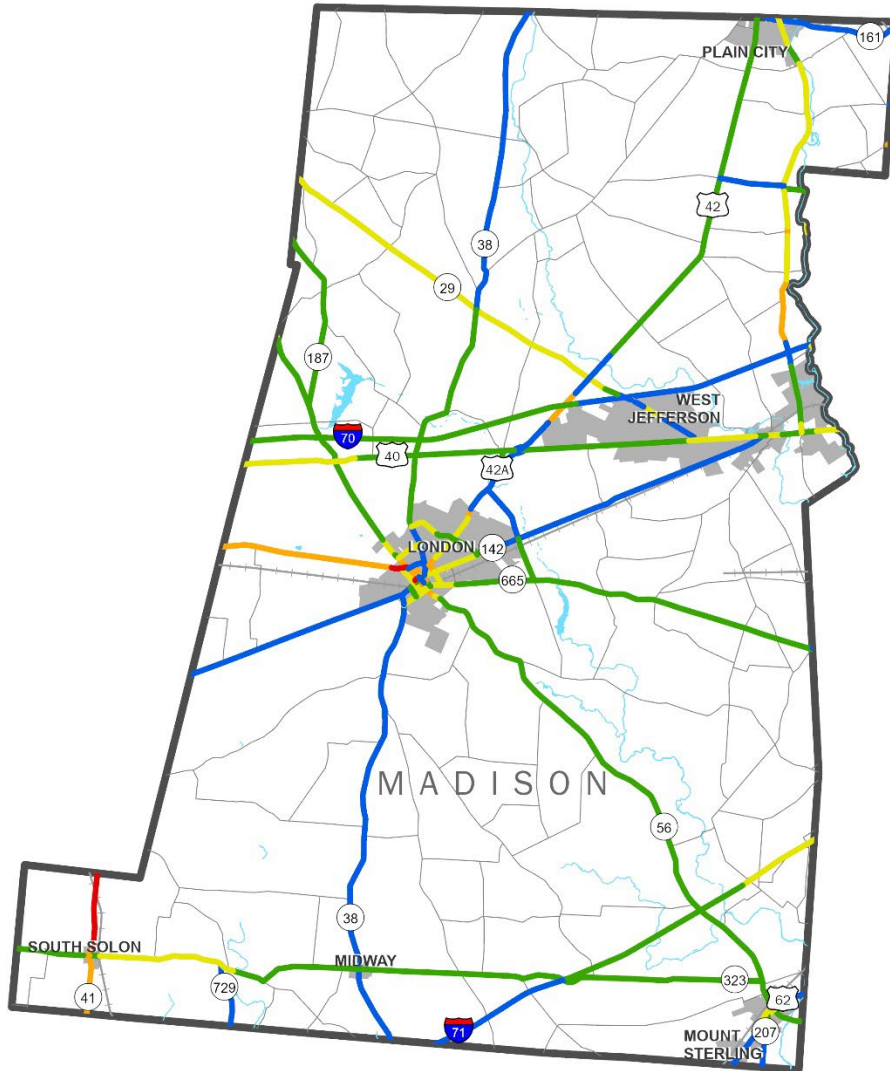
Madison County Roadway Condition Performance Measures

PAVEMENT CONDITION RATINGS

Figure H. 32 Madison County Roadway Network, Pavement Condition Ratings, 2022

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Pavement
Condition
Rating
Madison County



- Pavement Condition
- Below 56 (Poor)
 - 56 - 65 (Fair to Poor)
 - 66 - 75 (Fair)
 - 76 - 90 (Good)
 - 91 - 100 (Very Good)

County Boundary



The information shown on this map is compiled from various sources available to us which we believe to be reliable.
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H.3 Madison County Projects

To carry out the strategies, priority transportation projects have been identified through data analysis and stakeholder engagement. The projects include those that add roadway capacity, provide bicycle and pedestrian facilities, or enhance transit systems. Some of the identified projects encompass the ongoing operation, maintenance and preservation, or study of the existing transportation system.

Each project priority listed includes a brief project description and cost estimate in year of construction dollars, based on its prioritization as near- or long- term between 2023 and 2050.

2023-2050 CORPO Transportation Plan Project Listing

County: *Madison*

County	ID	Timeframe	Type	Location/Roadway	Project Description	Termini		2023 Cost Estimate (Millions)
Madison	MAD2	2023-2030	Maintenance / Resurfacing	US 42	US 42 - Add center two-way left turn lane from CR 135 (Betty Wilson Road) to CR 104 (Simpson Road)	CR 135	CR 104	\$13 - \$17
Madison	MAD3	2023-2030	Intersection Modification	US 42/CR 104	US 42 -Add center non-traversable median, safe u-turns at intersections from CR104 (Simpson Rd to SR 29)			\$2.6 - \$3.4
Madison	MAD4	2030-2040	Major Widening	SR 29	SR 29 - Widen to 5 lanes from I-70 to north of Main Street	I-70	Main St	\$17 - \$22
Madison	MAD8	2023-2030	Interchange Modification	US 42/I-70 Interchange	US 42 and I-70 Expansion - Expand interchange to facilitate growth in the City of London			\$18 - \$23
Madison	MAD10	2023-2030	Interchange Modification	SR 29/I-70 Interchange	SR 29 and I-70 Interchange			\$12.2
Madison	MAD11	2023-2030	New Road	Eagleton Rd	Eagleton Rd Ext - New Roadway between US 42 and SR 142	US 42	SR 142	\$3.9 - \$5
Madison	MAD12	TBD	Intersection Modification	Converse-Huff Rd/ Plain City-Georgesville Rd Intersection	Realign Converse-Huff Rd on the east and west sides of US42 to improve intersection			\$2.5 - \$4.4
Madison	MAD13	TBD	Intersection Modification	SR 161/ Cemetery Rd Intersection	Realign SR 161/ Cemetery Pike intersection to increase visibility and safety with a potential roundabout and gateway landscaping			\$2.1 - \$3.7
Madison	MAD14	TBD	Intersection Modification	SR 161/Chillicothe Intersection	Modify the SR 161/ Chillicothe St. intersection to a Main/Chillicothe four-way only to address safety concerns			\$0.9 - \$1.6
Madison	MAD15	TBD	Intersection Modification	US 42/Converse-Huff Rd Intersection	Improve intersection to address safety issues at the Converse-Huff/US-42 intersection			\$0.8 - \$1.4
Madison	MAD16	TBD	Multi-use Path	Railroad corridor	Complete last section of the Ohio to Erie Trail through London and Madison County	Midway St	Walnut St	\$0.3 - \$0.5
Madison	MAD17	2034-2040	New Road	US 42/Converse Huff Rd Intersection to SR 161/Cemetery Pike intersection	Establishment of a connector via widening and various improvements to Converse Huff Road and Cemetery Pike between US-42 and OH-161. Project includes installation of roundabouts at US-42/Converse Huff Road and OH-161/Cemetery Pike intersections; widening of Converse Huff Road and Cemetery Pike to three-lane roadway with curb and gutter, storm water, street lighting, 8-foot multi-use path, extension of water and sewer service, relocation of existing utilities, and R/W acquisition; and reconfiguration of Cemetery Pike/Smith-Calhoun Road intersection, including new bridge over Sugar Run, removal of existing connection, and R/W acquisition.	US 42/Converse Huff Rd	SR 161/ Cemetery Pike	\$42 - \$48
Madison	MAD18	TBD	New Road	Uptown/Lafayette-Plain City Rd.	New east-west connection road to provide an alternative for Main St. and West Ave. in the Village of Plain City	Uptown	Lafayette-Plain City Road	\$13 - \$23
Madison	MAD19	TBD	Other / To Be Determined	SR 161/ Railroad Crossing in Kileville	Improvements may include a grade-separated overpass of the railroad			\$25 - \$44
Madison	MAD20	TBD	Other / To Be Determined	SR 161	Improvements may include widening to a 4-lane road and implementing access management policies	Big Darby Creek	Cosgray Rd	\$14 - \$25