

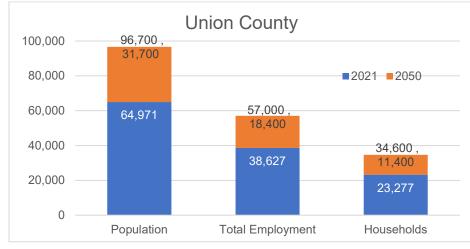
# **Appendix L- Union County Components**

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 Union County.

Sections in this appendix correspond with chapters in the full document text. This appendix provides highlighted data for Union 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.

- Union County Population, Employment, and Households Overview- <u>Chapter 2, Regional</u> <u>Trends and Conditions</u>
- Union County Transportation System- <u>Chapter 3, The Regional Transportation System</u>
  - <u>Appendix A: Inventory of Bridge Conditions</u>, for a complete inventory of bridges and condition ratings as of 2023.
- Union County Projects- Chapter 4, Recommended Strategies and Projects



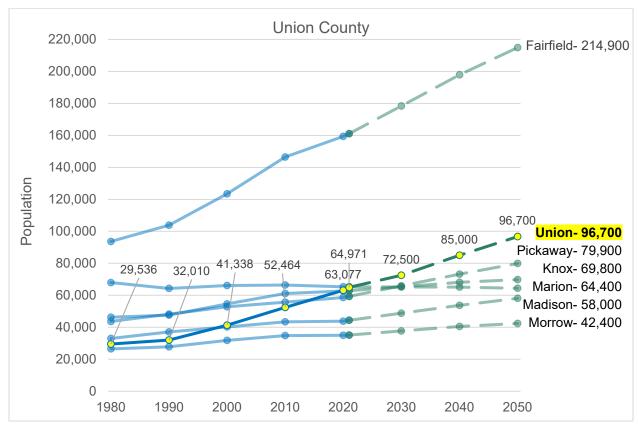
# L.1 Union County Population, Employment, and Households Overview

# Figure L. 1 Projected Population, Households, and Jobs Growth

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

Source: MORPC Forecasts





			HISTORIC			FORECASTED		
County	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 L. 2 Population Growth, Historic and Forecasted

Source: Census Population Estimates Program & MORPC Population Forecasts \*Forecasted populations rounded to the nearest 100

		Historic	Growth Overvie	W	Forecasted Growth Overview			
		1980 - 2021				20	)21 - 2050	
			Period Annual	Period Annual				Period Annual
County	Growth	% Growth	Growth Rate	Growth	Growth	% Growth	Growth Rate	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 L. 1 Population Growth Rates, Historic and Forecasted

Source: Census Population Estimates Program & MORPC Population Forecasts

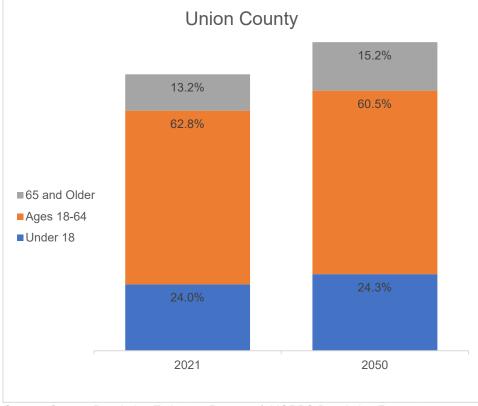
### AGE

	2021			2050			
County	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%	<mark>15.2%</mark>	

#### Table L. 2 Population Growth by Age Group

Source: Census Population Estimates Program & MORPC Population Forecasts



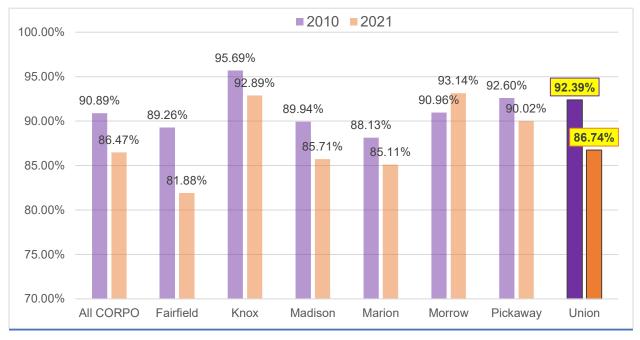


Source: Census Population Estimates Program & MORPC Population Forecasts

### POPULATION DEMOGRAPHIC AND SOCIOECONOMIC FACTORS

#### RACE AND ETHNICITY

Figure L. 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

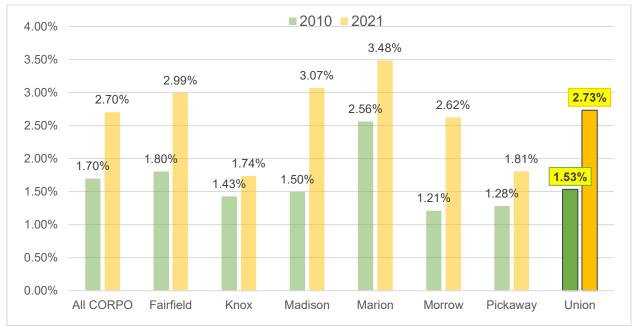
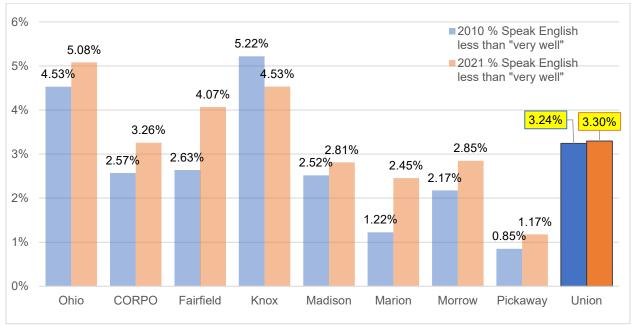


Figure L. 5 Share of Population Identifying as Hispanic or Latino, 2010 & 2021

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

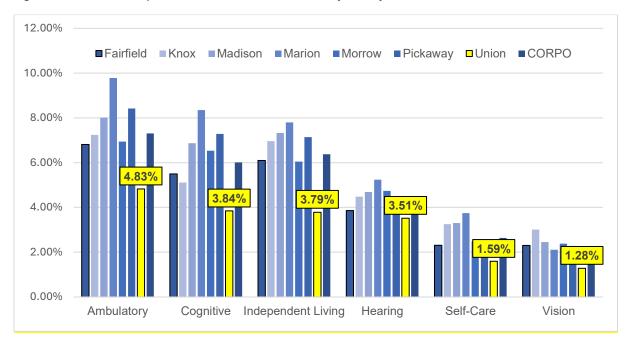


#### Figure L. 6 Percent of Population Age 5 years & over, LEP, 2010 & 2021

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

#### **DISABILITY STATUS**

Figure L. 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

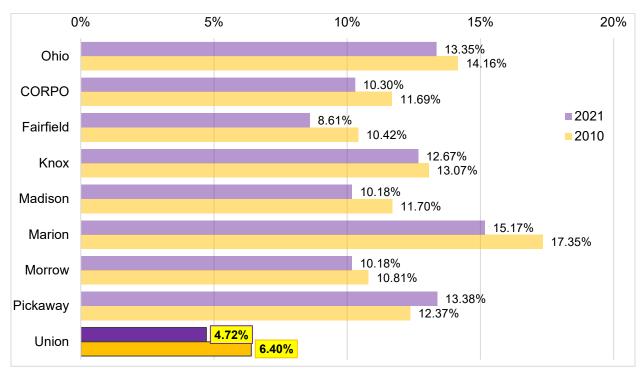
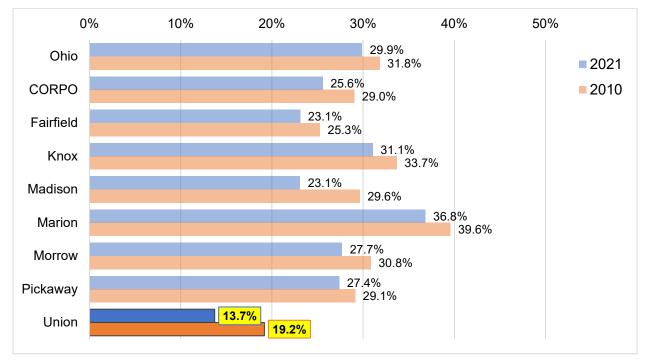


Figure L. 8 Percent of Population under 100% Federal Poverty Line, 2010 & 2021

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





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

### **Characteristics of Employment Growth**

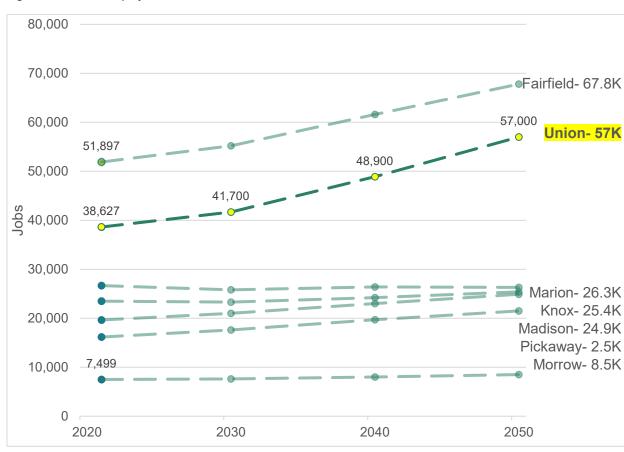


Figure L. 10 Total Employment Trend, 2021-2050

	HISTORIC	FORECASTED			
County	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

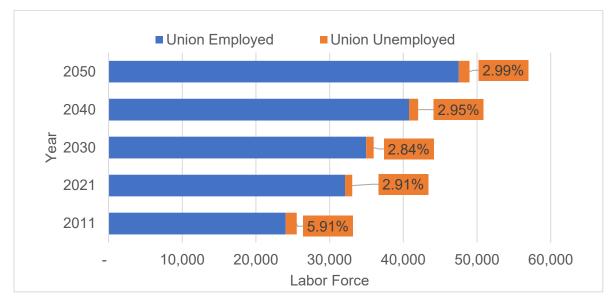


Figure L. 11 Union County Unemployment Historic & Projected

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

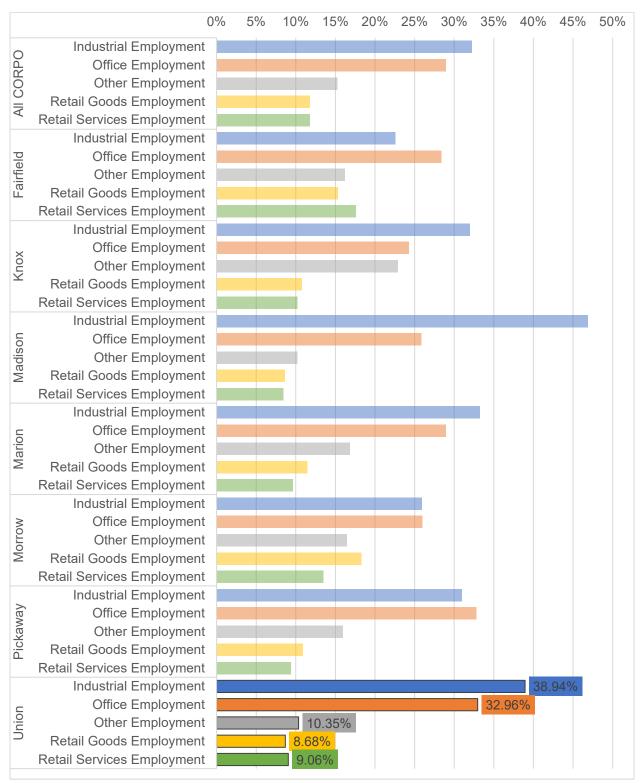
#### Table L. 3 Union County Unemployment Compared to CORPO, Historic & Forecasted

		Historic				Forecasted					
	2	2011	2021		2030		2040		2050		
County	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 L. 12 Share of Employment by Industry, 2021



Source: MORPC Employment Forecasts

### **Characteristics of Household Growth**

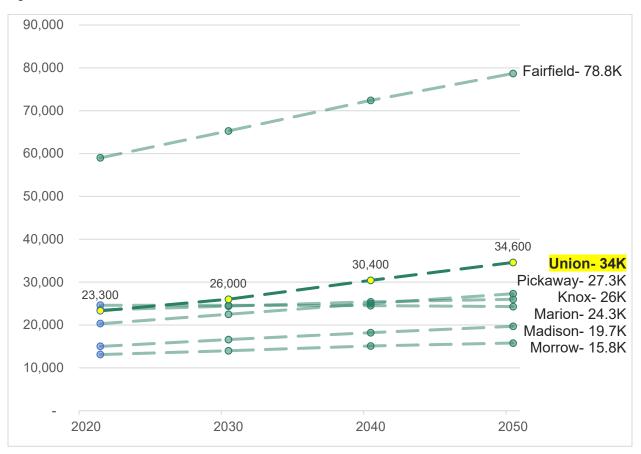


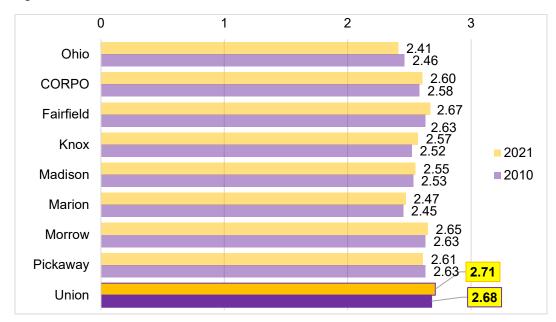
Figure L. 13 Total Household Trend, 2021-2050

	HISTORIC	FORECASTED		
County	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**

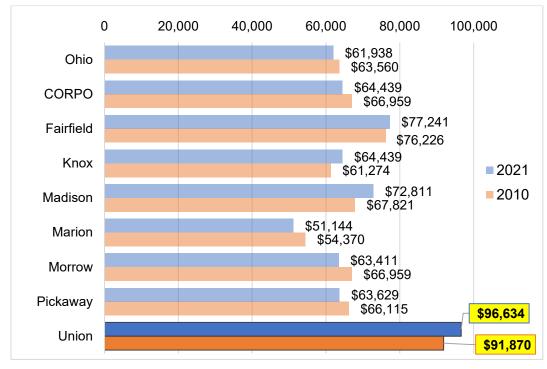
Figure L. 14 Household Size, 2010 & 2021



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

#### HOUSEHOLD INCOME

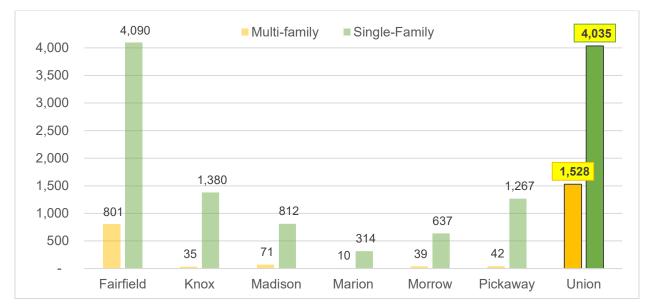




Source: American Community Survey, 5-Year Estimates \*2006-2010 ACS 5-Year Estimate, 2017-2021 5-Year Estimate

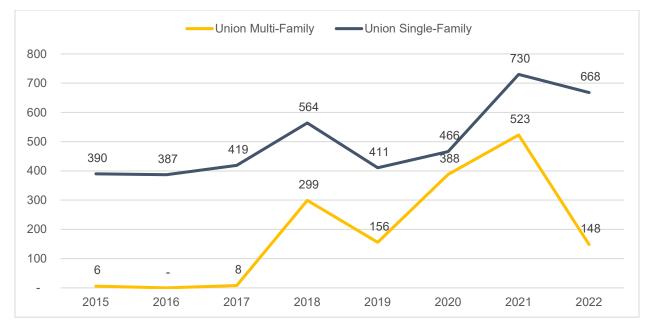
### **Union County Land Use and Development Patterns**

#### **RESIDENTIAL DEVELOPMENT TRENDS**



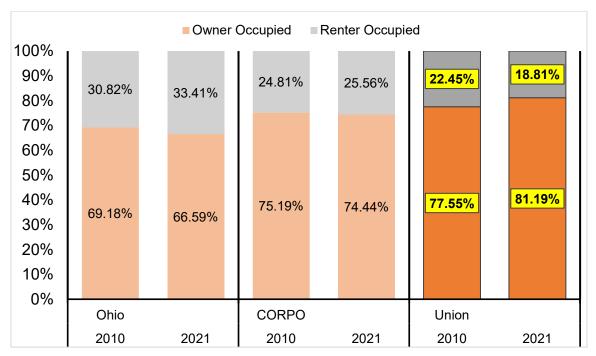


Source: Census Building Permit Survey Data, 2015 – 2021



#### Figure L. 17 Union County Residential Permits Issued, 2015-2021

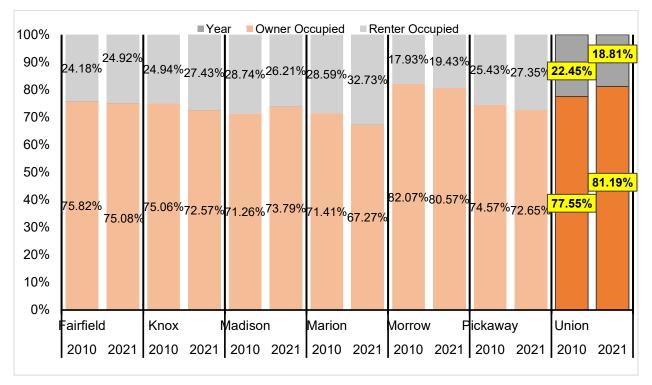
Source: Census Building Permit Survey Data, 2015 – 2021





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



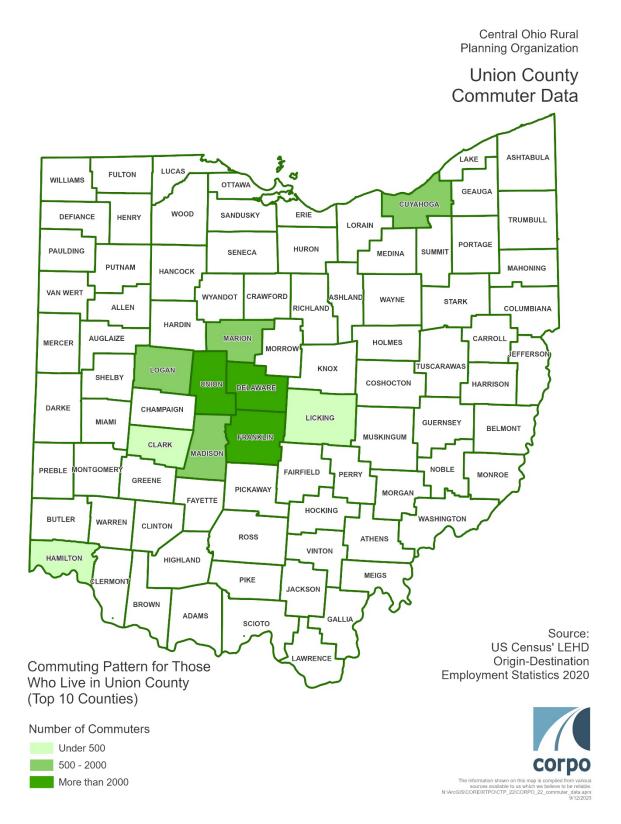


Source: American Community Survey, 5-Year Estimates

\*2006-2010 ACS 5-Year Estimate, 2017-2021 5-Year Estimate

#### **REGIONAL TRAVEL PATTERNS**

Figure L. 20 Commuting Pattern for Workers who Live in Union County, 2020





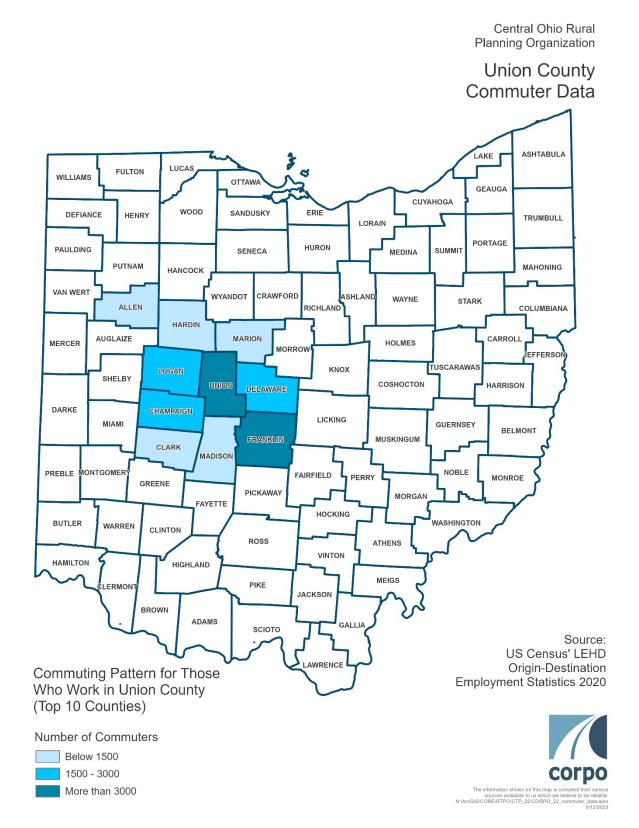
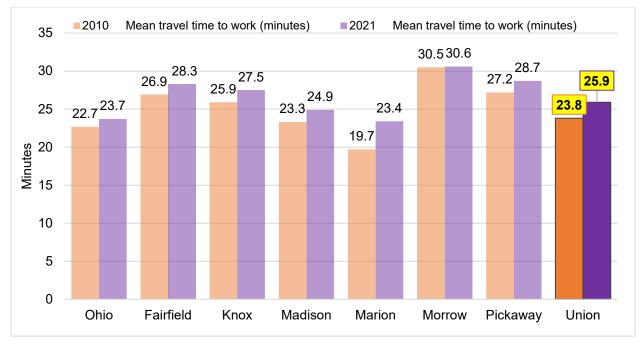
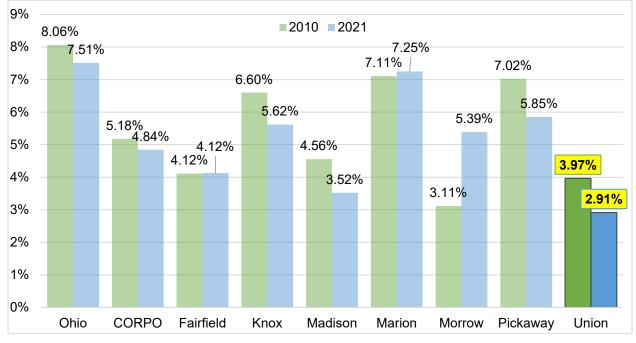


Figure L. 22 State & CORPO Mean Commute Times, 2010 & 2021



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





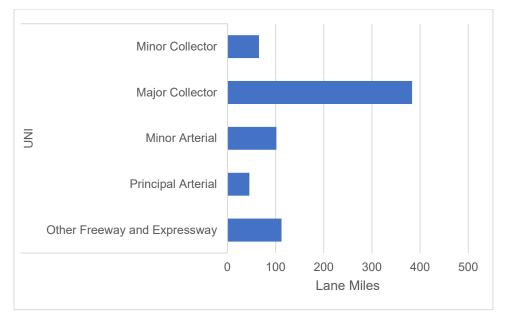
Source: American Community Survey, 5-Year Estimates \*2006-2010 ACS 5-Year Estimate, 2017-2021 5-Year Estimate

# L.2 Union County Transportation System

# **Union County Roadway System**

### FUNCTIONAL CLASSIFICATION

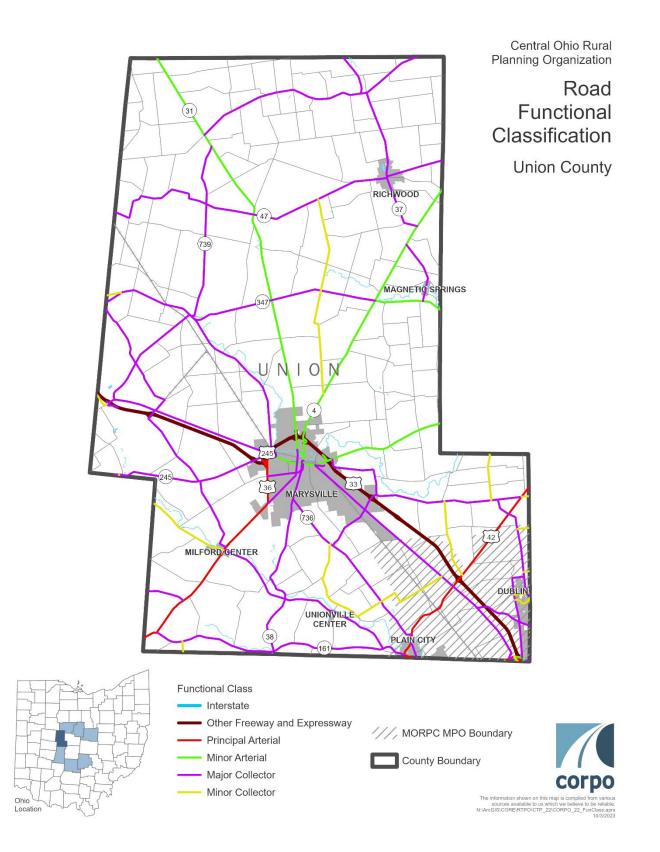




Source: ODOT TIMS

#### Table L. 4 Union County Lane Miles by Functional Classification

County	Functional Classification Type	Sum of FC_code	Sum of Lane Miles	% of Total Lane Miles
UNI	Other Freeway and Expressway	2	112.28	16%
UNI	Principal Arterial	3	45.53	6%
UNI	Minor Arterial	4	101.59	14%
UNI	Major Collector	5	383.25	54%
UNI	Minor Collector	6	65.55	9%
		Total	708.21	100%



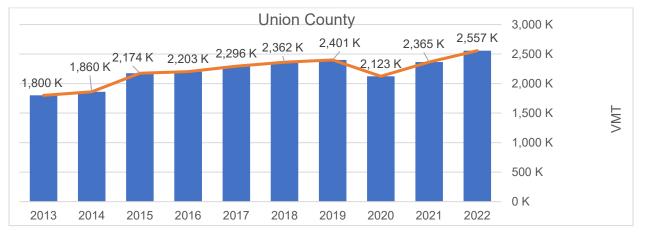
#### VEHICLE MILES TRAVELED (VMT)

Table L. 5 Union County VMT & VMT Change by Year, 2013-2022

COUNTY:		UNION
YEAR	VMT	% CHANGE
2022	2,557 K	7.51%
2021	2,365 K	10.26%
2020	2,123 K	-13.09%
2019	2,401 K	1.62%
2018	2,362 K	2.79%
2017	2,296 K	4.04%
2016	2,203 K	1.30%
2015	2,174 K	14.45%
2014	1,860 K	3.22%
2013	1,800 K	

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

Figure L. 26 Union County VMT by Year, 2013-2022

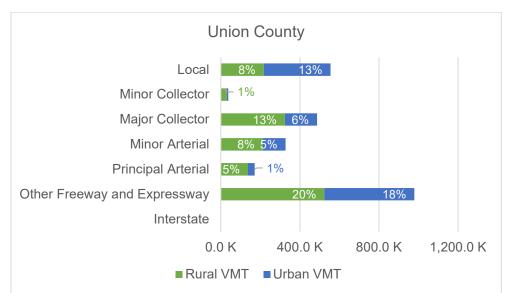


Source: ODOT Traffic Monitoring, Daily Vehicle Miles Traveled, 2013-2022 Table L. 6 VMT & VMT Change by County, 2013 & 2022

	VMT		
COUNTY	2013	2022	% Change
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





COUNTY:	Union				
Functional Classification Code	Functional Classification Type	Rural VMT	% of Total	Urban VMT	% of Total
1	Interstate	-	0%	-	0%
2	Other Freeway and Expressway	523,670	20%	455,650	18%
3	Principal Arterial	137,340	5%	34,130	1%
4	Minor Arterial	211,900	8%	115,310	5%
5	Major Collector	324,210	13%	162,470	6%
6	Minor Collector	30,310	1%	7,500	0%
7	Local	217,140	8%	337,830	13%
Total		1,444,566	56%	1,112,881.00	44%

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

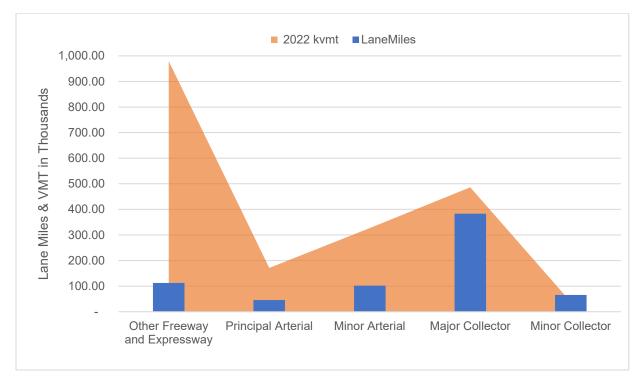


Figure L. 28 2022 Union County Lane Miles & VMT by Functional Class

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

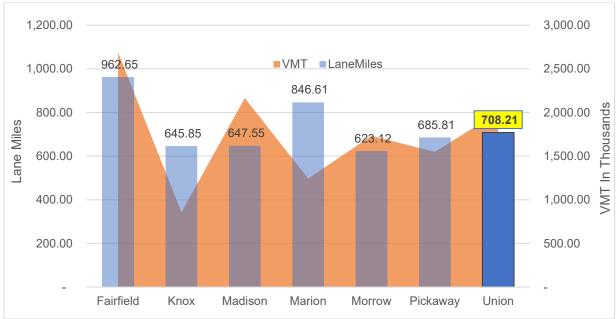
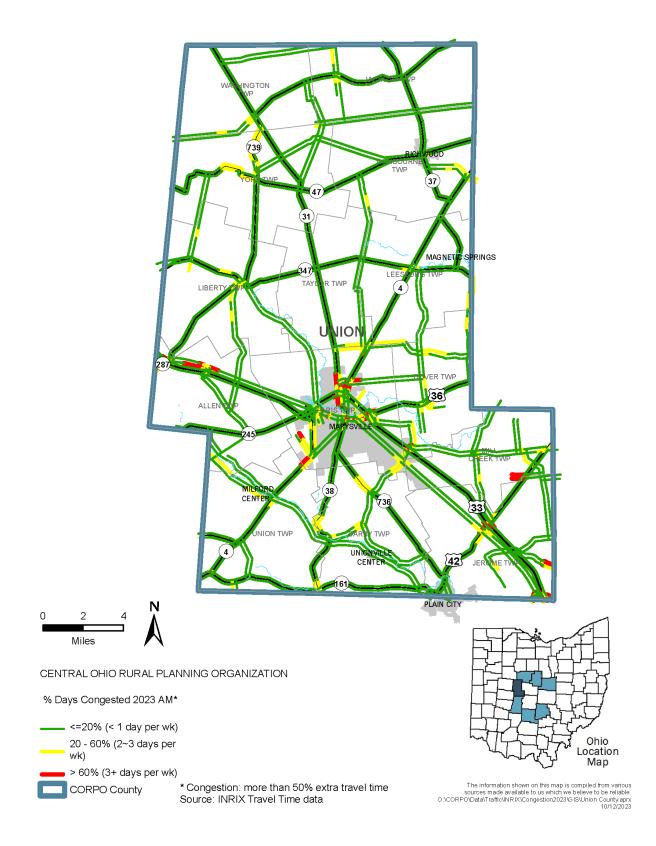


Figure L. 29 2022 Lane Miles and VMT by CORPO County

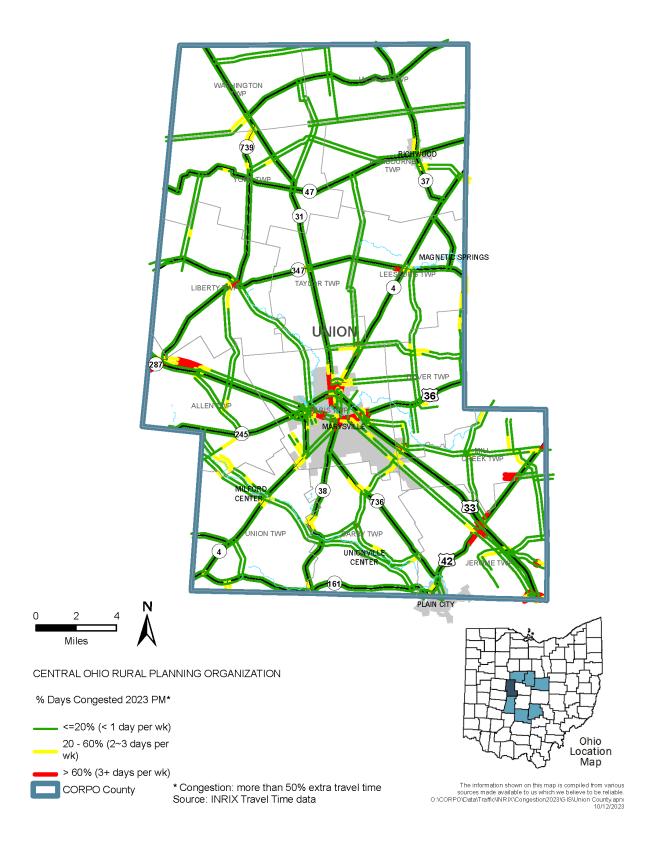
Source: ODOT TIMS and ODOT Traffic Monitoring, Daily Vehicle Miles Traveled, 2022

#### CONGESTION

Figure L. 30 Union County AM Peak Congestion, 2023



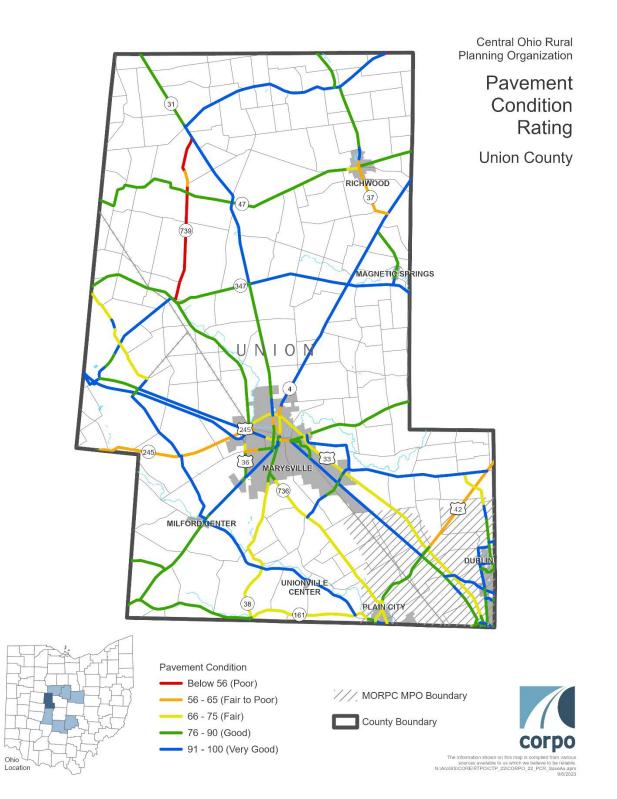




## **Union County Roadway Condition Performance Measures**

#### **PAVEMENT CONDITION RATINGS**

Figure L. 32 Union County Roadway Network, Pavement Condition Ratings, 2022



# L.3 Union 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	: Union

County	ID	Timeframe	Туре	Location/Roadway	Project Description	Ter	mini	2023 Cost Estimate (Millions)
Union	UNI5	2030-2040	Major Widening	US 33	US 33 from Avery RD to US 42; Major widening*	Avery Rd	US 42	\$51 - \$65
Union	UNI7	2025-2035	New Road	New Road/Marysville industrial park	Construct a connector road at the new industrial park in southern Marysville.			\$13 - \$17
Union	UNI8	2040-2050	Study		Columbus to Chicago Passenger Rail - 300 mile corridor improvements			\$1.3 - \$1.6
Union	UNI9	2040-2045	Study	US 33	Study US 33 from SR 161 to SR 347 (TRC) and develop a corridor plan.	SR 161	SR 347	\$0.6 - \$0.7
Union	UNI10	2030-2040	Minor Widening / Safety Improvement	SR 31	SR 31 (US 33 to US 68) - Widening and safety improvements	US 33	US 68	\$22 - \$28
Union	UNI14	2040-2050	Interchange Modification	US 33/ SR 161 Interchange	Reconstruction or upgrade of the US 33/SR 161 Interchange in Dublin to meet traffic demand.*			\$57 - \$68
Union	UNI17	2040-2050	Interchange Modification	US 33/US 42 Interchange				\$57 - \$68
Union	UNI19	2040-2050	New Interchange	US 33/Mitchell-Dewitt Rd	Construct a new interchange at US-33 and Mitchell- Dewitt Road*			\$32 - \$38
Union	UNI21	2025-2030	Intersection Modification	Columbus Ave/Delaware Ave/E. 5th Ave/N. Cherry	Five Points Instersection Improvement - Rebuild of intersection to accommodate traffic demand			\$5 - \$6
Union	UNI23	2025-2027	Intersection Modification	US 42/Industrial Pkwy Intersection	Reconstruct or upgrade the US-42/Industrial Parkway intersection*			\$26 - \$28
Union	UNI30	2025-2030	Study	US 42	US 42 Freight Study from Madison Co line to Del Co line	Madison County line	Delaware county line	\$0.1 - \$0.1
Union	UNI31	2024-2025	Major Widening	US 42	US 42 between US 33 and Delaware County Line -	US 33	Delaware county line	\$50 - \$53
Union	UNI32	2040-2050	New Interchange	US 33/Beecher-Gamble	US 33 - Construct New Interchange, Beecher- Gamble/US33			\$32 - \$38
Union	UNI33	2025-2026	New Road	Home Road	New roadway alignment for Home Road (Delaware Co)/Blaney Road (Union Co)*			\$39 - \$41
Union	UNI34	2030-2040	New Road	Ravenhill Pkwy	Ravenhill Parkway Ext From existing western terminus to Mitchell-Dewitt Rd., 1 lane each	Ravenhill Pkwy	Mitchell-Dewitt Rd	\$32 - \$40
Union	UNI35	2030-2040	New Road	Watkins/California Rd	Watkins - California Rd Realignment, from Watkins- California Rd. to US-42, 1 lane each direction*	Watkins/California Rd	US 42	\$2.6 - \$3.3
Union	UNI38	2024-2024	Major Widening	Hyland-Croy Rd	Hyland-Croy Rd - Widen from 2 to 3 lanes with signalization/access controls			\$4.5 - \$4.5
Union	UNI39	2030-2040	Major Widening	Industrial Pkwy	Industrial PKWY from SR 161 to US 42, Major widening of roadway*	SR 161	US 42	\$19 - \$24
Union	UNI40	2030-2040	Major Widening	SR 31	Mill Wood BLVD to Creekview Dr; Major widening of roadway	Mill Wood Blvd	Creekview Dr	\$1.9 - \$2.4
Union	UNI42	2040-2050	Interchange Modification	I-270/US 33 Interchange	I-270 / US 33 - Continue to rebuild of interchange to meet traffic demand			\$116 - \$139
Union	UNI43	2030-2040	Study	SR 347	Safety study of SR 347.			\$0.1 - \$0.1
Union	UNI51	2025-2030	Study		Study multi-use trail networks in the county.			\$0.05 - \$0.1
Union	UNI55	2025-2030	Intersection Modification	SR 31/ SR 347	New single-lane roundabout at SR 31 and SR 347			\$3 - \$3.5
Union	UNI56	2025-2027	Intersection Modification	US 36/SR 4/Milford Ave/Payne Rd	New Roundabout at the US 36/SR 4/ Milford Ave/Payne Rd intersection			\$3 - \$3.3
Union	UNI57	TBD	Intersection Modification	US42/ N. Chillicothe St. Intersection	Operational improvements or construct a new roundabout at the US 42/ N. Chillicothe St.			\$2.4 - \$4.2

#### 2023-2050 CORPO Transportation Plan Project Listing

<b>A</b>	
County	r: Union

County Union	ID	Timeframe	Туре	Location/Roadway East 5th St	Project Description Road reconstruction with pedestrian enhancements	Termini		2023 Cost Estimate (Millions)
	UNI58	2025-2030	Maintenance / Resurfacing			Walnut St	5 Points Intersection	(Millions) \$2 - \$2.4
Union	UNI59	2040-2050	Major Widening	US 33	Widening to 6 lanes from Post Rd interchange to US42	Post/161	USR42	\$82 - \$98
Union	UNI60	2030-2040	Major Widening	SR 4	Widen SR 4 from the US 33 interchange to Amrine Wood Drive	US 33 Interchange	Amrine Wood	\$12 - \$15
Union	UNI61	2030-2040	Major Widening	Industrial Pkwy	Widen Industrial Pkwy from Colemans Crossing to Marysville coroporation limits	Colemans Crossing	Corporation Limits	\$10 - \$13
Union	UNI62	2030-2040	Major Widening	US 36	Widen US 36 from the US 33 interchange to	US 33 Interchange	Corporation Limits	\$10 - \$15
Union	UNI63	2030-2035	Major Widening	Scottslawn Road	Widen Scottslawn Rd between Industrial Pkwy and US-33 interchange and make intersection modification at the Scottslawn Rd / Industrial Pkwy	Industrial Pkwy	US-33 Interchange	\$4 - \$4.6
Union	UNI64	2025-2030	Multi-use Path	Milford Ave	Multi-Use path along Milford Ave	Corporation Limits	Collins Ave	\$2 - \$2.4
Union	UNI65	2030-2035	Multi-use Path	Industrial Pkwy	Multi-Use path along Industrial Pkwy	Corporation Limits	Colemans Crossing	\$2 - \$2.3
Union	UNI66	2030-2040	New Interchange / Interchange Modification	US 33/US 36/SR 4/ SR 245 Interchange	Interchange Improvements to address the safety issues at US 33/US 36/SR 4/SR 245 Interchanges			\$20 - \$25
Union	UNI67	2040-2050	New Road	New Road	Construction of a southern bypass for better east- west connectivity across the south side of Marysville.	Scottslawn Rd	US 36 / SR 4	\$50 - \$60
Union	UNI68	2030-2035	New Road	Houchard Rd. Ext 2	Road Extension-2.5 mile roadway/utility extension	Warner Rd	Mitchell-DeWitt	\$20 - \$23
Union	UNI69	TBD	New Road	SR 736/ US42 Intersection to SR 161	New two-lane connection between SR 736/ US 42 and SR 161	SR 736/ US 42	SR 161	\$12 - \$21
Union	UNI70	2025-2030	New Road	SE Marysville	Construct connector road/RR overpass to commerical area	Industrial Pkwy		\$12 - \$14
Union	UNI71	2025-2030	New Road	Houchard Rd. Ext 1	Road Extension-1 mile roadway/utility extension	SR161	Warner Rd	\$10 - \$12
Union	UNI72	2025-2035	Other / To Be Determined	Colemans Crossing	Improvements to Colemans Crossing to improve safety and congestion issues. Improvements will be	Deaware Ave (US 36)	Industrial Pkwy	\$6 - \$8
Union	UNI73	2025-2035	Study	US 33/US 36/SR 4/ SR	Interchange improvements study to evaluate			\$0.2 - \$0.3
Union	UNI75	2024-2025	Study	Industrial Pkwy	Major corridor widening/capacity improvement study	SR161	USR42	\$0.2 - \$0.2
Union	UNI76	2025-2026	Minor Widening / Rehab.	Delaware Ave (US 36)	Widening of Delaware Ave (US 36) between US 33 interchange and 5 points intersection	Delaware Ave (US 36)	US 33 Interchange	\$5 - \$10
Union	UNI77	2025-2030	Study	US 33	Alignment considerations for new water mains and affects on US 33	TBD		\$0.1 - \$0.1
Union	UNI78	2030-2040	Study	New Road	Study for the construction of a southern bypass for better east-west connectivity across the south side of	Scottslawn Rd	US 36 / SR 4	\$0.1 - \$0.1