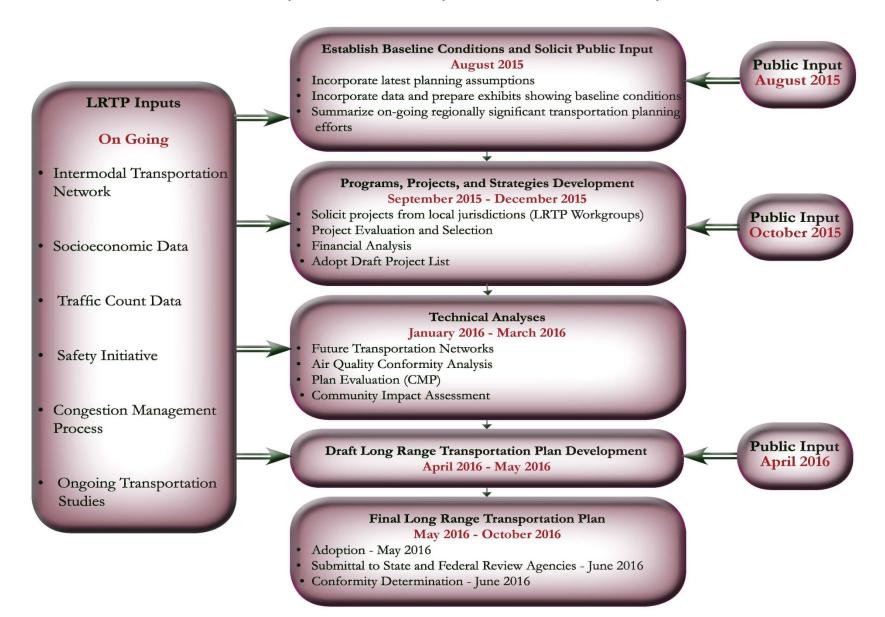
Transportation Plan Update

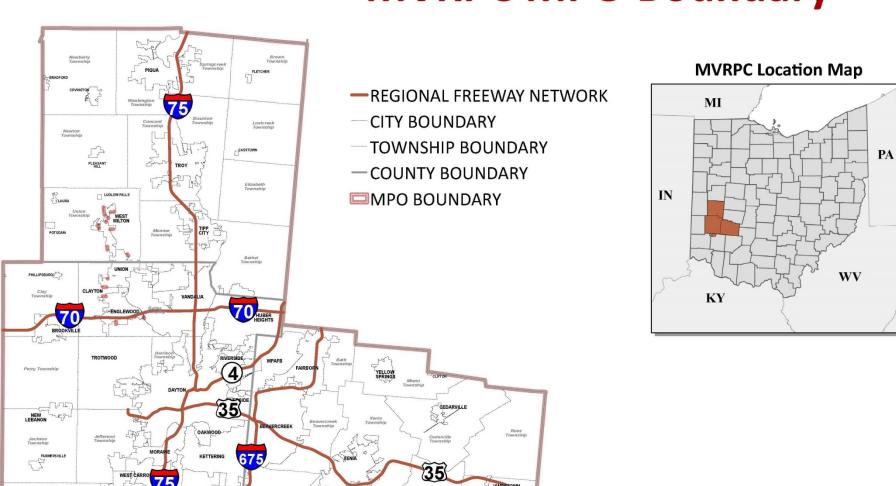
MVRPC is in the process of updating its 2040 Long Range Transportation Plan. The new Plan Update identifies multimodal transportation development strategies and programs for the next 20+ years that will guide effective investment of public funds in the Region.

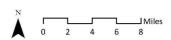
2040 Long Range Transportation Planning Process

The update process for the 2040 Long Range Transportation Plan started in July 2015 and is expected to finish in May 2016.



MVRPC MPO Boundary





Transportation Goals

MVRPC revised the transportation goals to meet the new requirements under the new transportation law, Moving Ahead for Progress in the 21st Century (MAP-21).

Regional Stewardship

Develop Regional Priorities — Continue to address regional transportation needs that further the shared social, economic, transportation, and environmental goals of the Region.

Vibrant Communities

- Transportation Choices Encourage a stronger multi-modal network in the Region to ensure that people and goods reach their destination safely, efficiently, and conveniently.
- ☑ Transportation System Management Continue to maintain and upgrade the regional transportation system by providing safety, security, aesthetic, and capacity improvements as needed.
- Transportation and Land Use Incorporate regional land use strategies into the transportation policy and the investment decision making process.

Vigorous Economy

Transportation — Continue to address regional transportation needs to enhance economic development in order to attract and retain businesses in the Region while improving the quality of life of its residents.

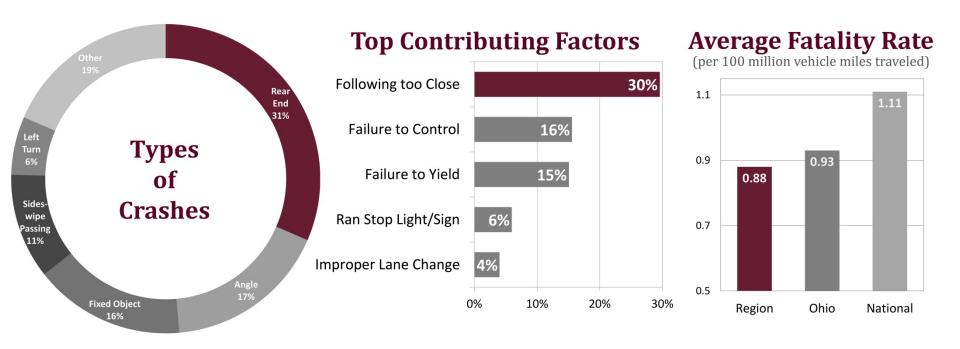
Sustainable Solutions

Clean Air — Encourage the pursuit of alternative fuels and transportation to reduce emissions and our reliance on petroleum-based products.

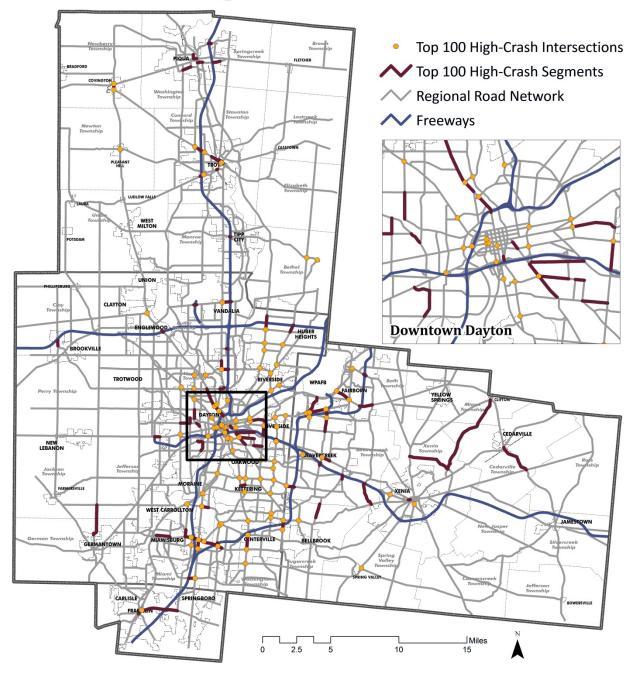
Safety and Congestion Conditions

Safety

There were **42,502** total crashes reported on the regional roadway network from 2011 to 2013.

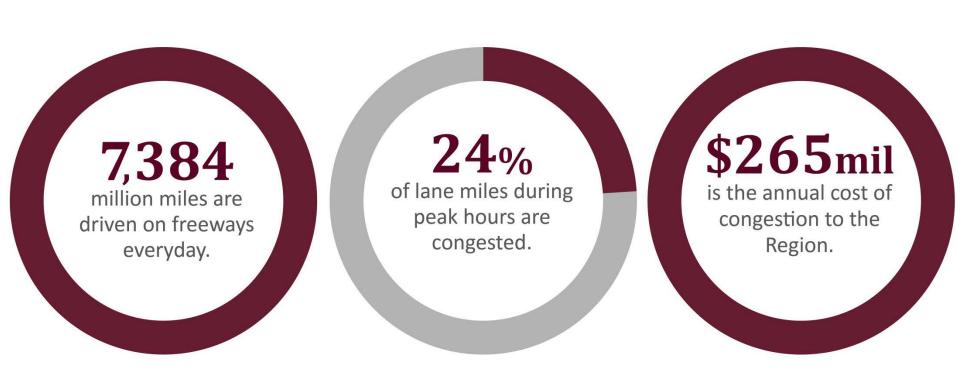


High Crash Locations



Congestion

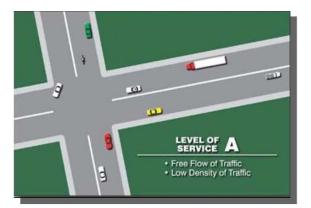
MVRPC administers a Congestion Management Process (CMP) to evaluate current transportation system conditions and outline strategies to manage congestion.

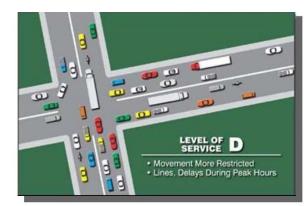


Regional Report Card

	MEASURE		ATA	GOAL	ACTUAL	TREND
System Performance	Average Freeway Speed	NA	60.2 (2013)	_	_	
	Congested System (percent of lanes miles congested)	29.0% (2007)	24.0% (2011)	+	+	-5%
	Annual Freeway Vehicle Hours of Delay	NA	696,167 (2013)	+	_	
	Annual Cost of Vehicle Delay on Freeways (in millions)	NA	\$24.33 (2013)	+	_	
	Annual Cost of Truck Delay on Freeways (in millions)	NA	\$12.82 (2013)	+	_	
Safety	Incident Response (average duration in minutes of major freeway incidents)	NA	98 (2013)	+	_	
	Mean Distance Between Calls (mean distance in miles between GDRTA service calls)	NA	15,813 (2013)	+	_	
	Rate of Fatalities (total roadway fatalities per 100mil daily vehicle miles traveled)	0.82 (2008-10)	0.88 (2011-13)	+		9%
	Rate of Serious Injuries (total roadway injuries per 100mil daily vehicle miles traveled)	8.39 (2008-10)	7.88 (2011-13)	+	+	-65%
	Transit Incidents (total transit incidents per 100,000 trips)	0.28 (2008-10)	0.27 (2011-13)	+	_	
	Miles of Regional Bikeway	165 (2010)	198 (2014)	↑	↑	20%
	Population Served by Bikeway (percent population within 1/2 mile a Regional Bikeway)	28.3% (2000)	28.8% (2010)	↑	_	
Accessibility	Employment Served by Bikeway (percent employment within 1/2 mile of a Regional Bikeway)	43.2% (2000)	43.8% (2010)	↑	_	
	Population Served by Transit (percent population within 1/2 mile of a GDRTA Bus Route)	79.8% (2000)	79.5% (2010)	↑	_	
	Employment Served by Transit (percent employment within 1/2 mile of a GDRTA Bus Route)	85.4% (2000)	89.3% (2010)	↑		4.5%
	Work Trips by Biking or Walking	2.55% (2000)	2.79% (2010)	↑	_	
	Population Living in Mixed Land Use Districts	NA	36% (2010)		_	

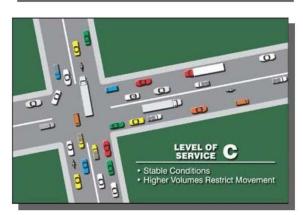
Transportation System and Congestion Analysis

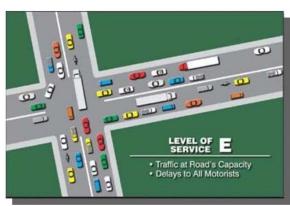


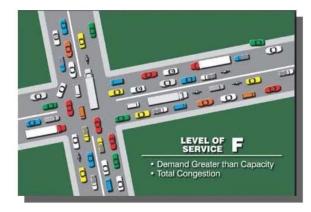


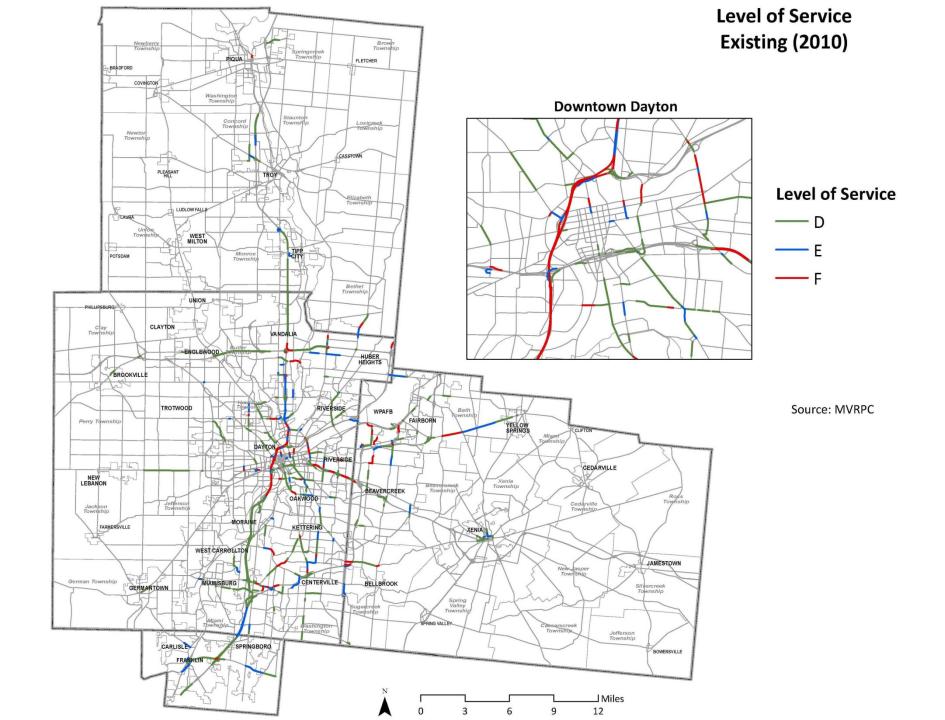
Level of Service Definition: A qualitative measure describing operational conditions within a traffic stream and their perception by motorists. Level of Service A represents free flow conditions while Level of Service F represents conditions where demand exceeds the capacity of a road. Roads where Level of Service is D, E or F are considered congested.

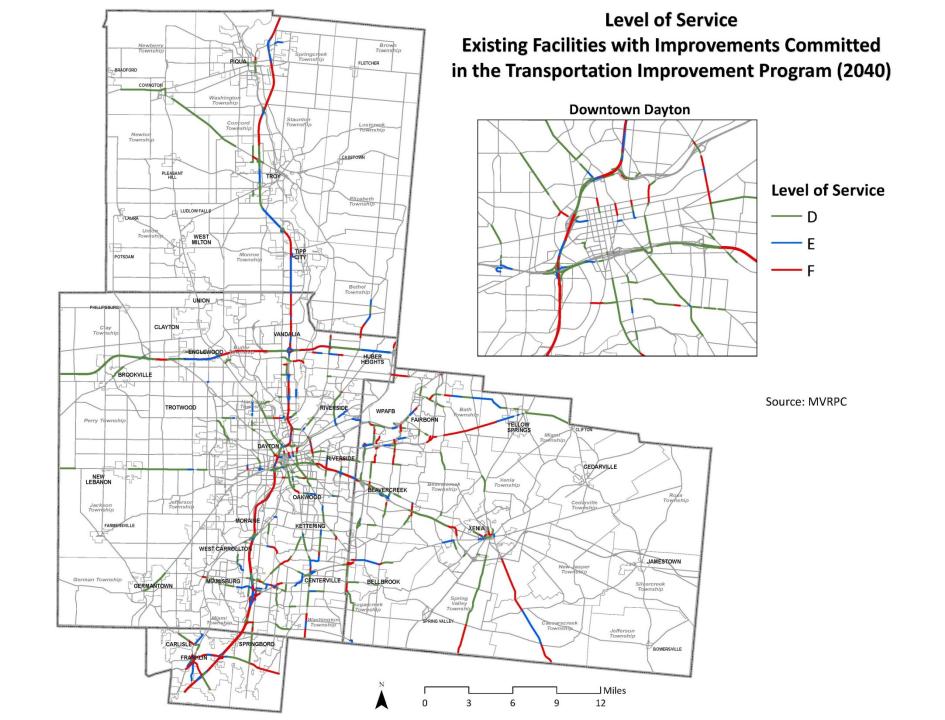


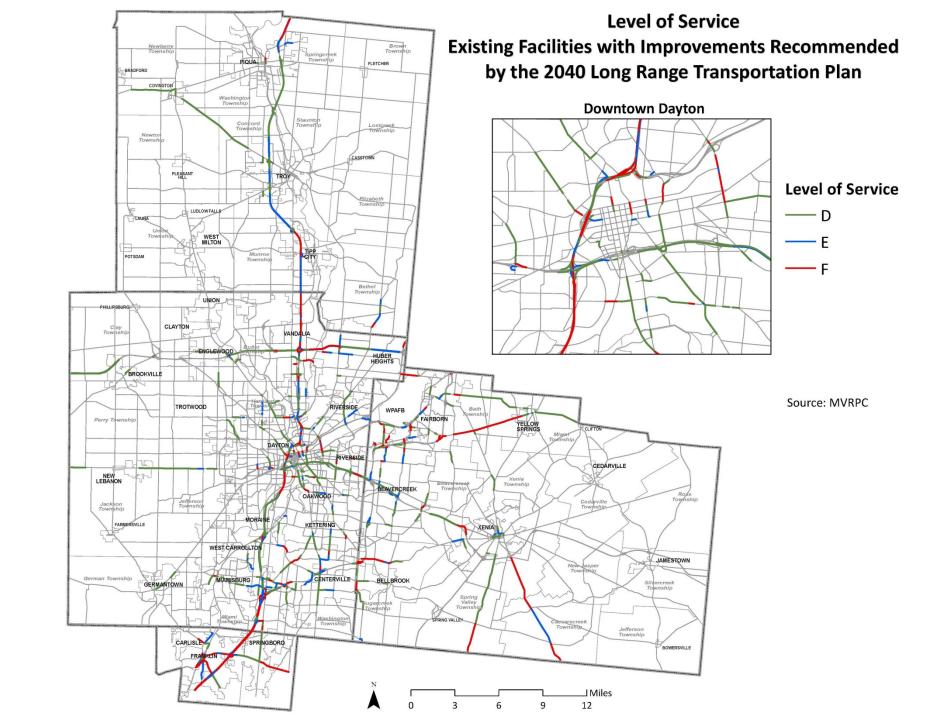


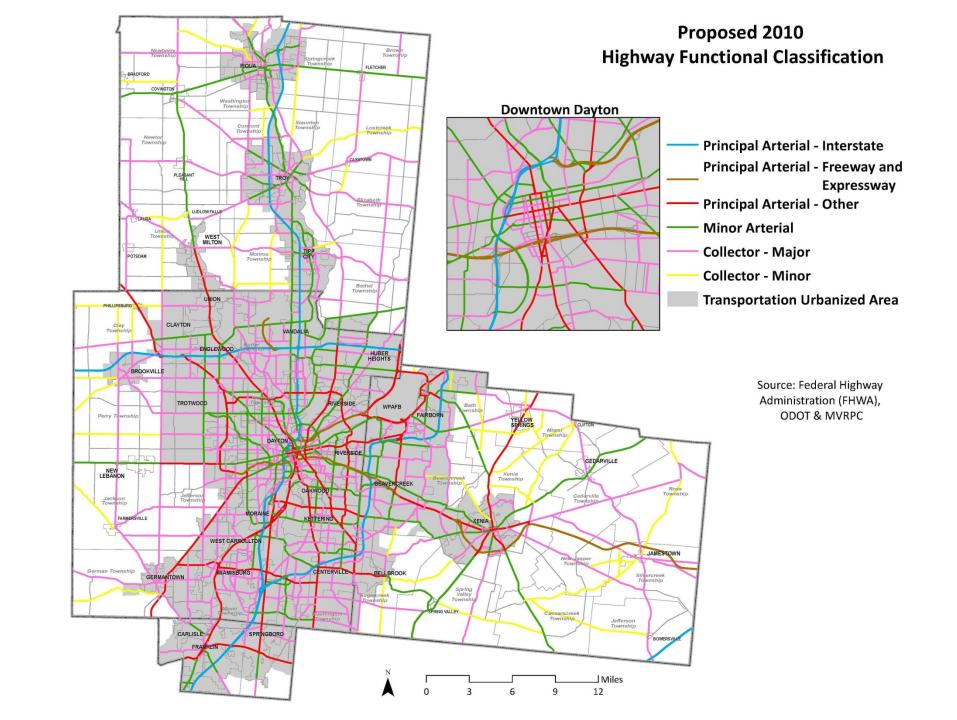




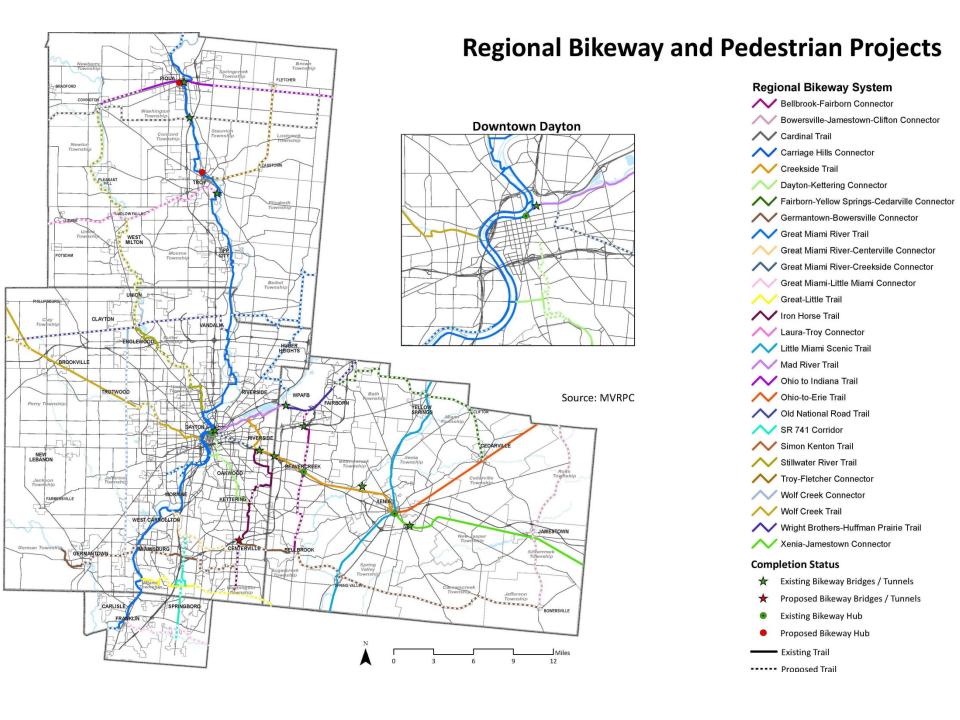


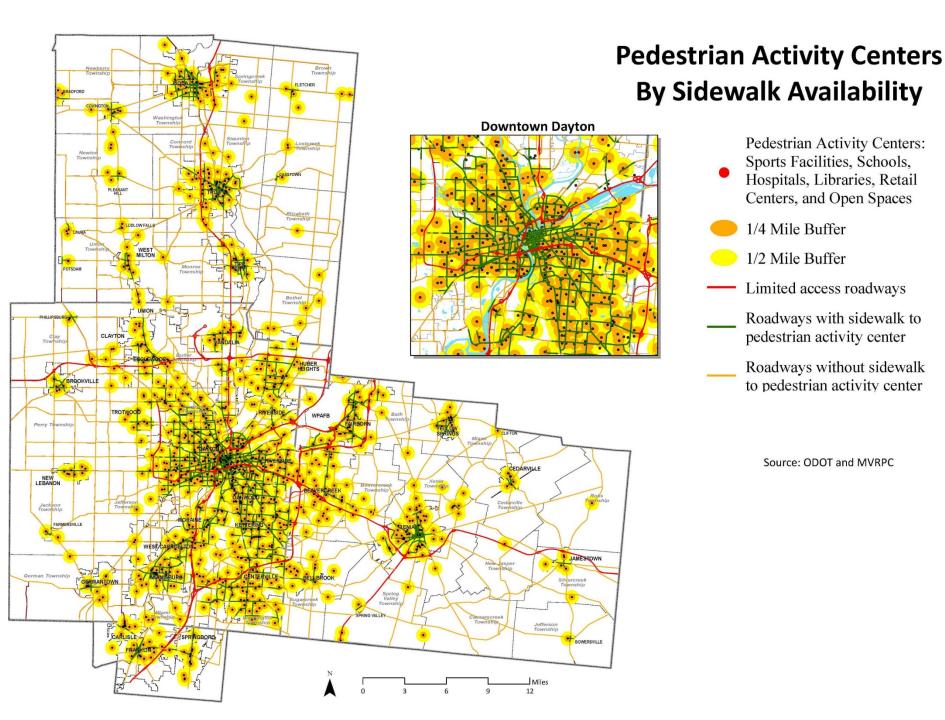


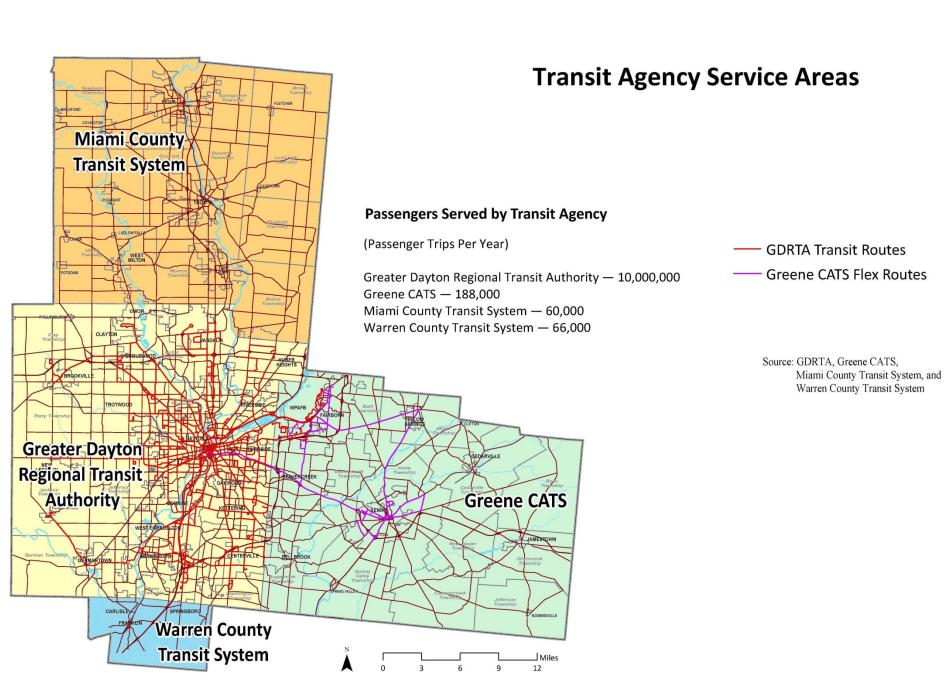


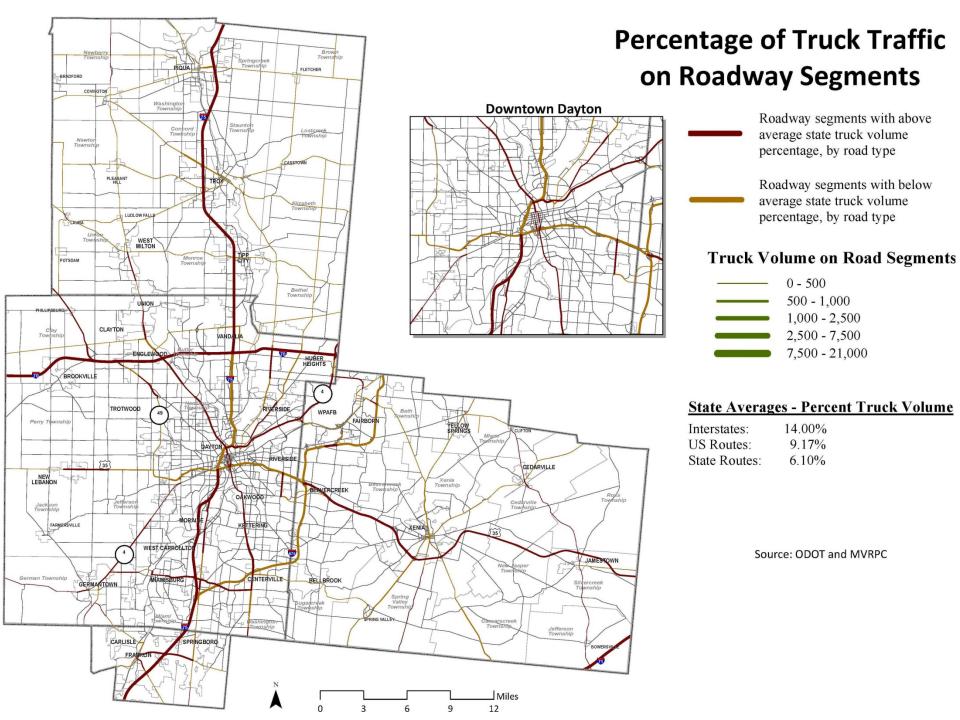


Alternative Transportation Modes (Passenger and Freight)









Community Impact Assessment

Overview

Community Survey.

The goal of MVRPC's Community Impact Assessment is to incorporate Environmental Justice (EJ) issues into the transportation planning process. This initiative entails various quantitative analyses using Geographic Information Systems (GIS). The Community Impact Assessment initiatives began in 2001, as part of the 2025 Long Range Transportation Plan, with data from the 1990 census. The most recent Community Impact Assessment incorporates the latest data from the 2010 Census and 2008-2012 American

Definition of Environmental Justice

"The fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income with respect to the development, implementation and enforcement of environmental laws, regulations and policies. Fair treatments means that no group of people, including racial, ethnic or socio-economic group should bear a disproportionate share of the negative environmental consequences resulting from industrial, municipal, and commercial operations or the execution of federal, state, local and tribal programs and policies." (U.S. EPA Office of Environmental Justice)

MVRPC's Approach

The methods adopted by the MVRPC team to fulfill EJ requirements follow guidelines in print from Ohio Dept. of Transportation (ODOT), and the recommendations of the Ohio EJ Task Force. The approach adopts a three step process to arrive at the findings describing the nature and extent of impact of development patterns on disadvantaged populations.

STEP 1: Define EJ Population

MVRPC's EJ Target Population includes minorities, persons in poverty, persons with disabilities, and the elderly. These categories were further expanded to include traditionally disadvantaged groups such as persons of Hispanic origin and households without automobiles.

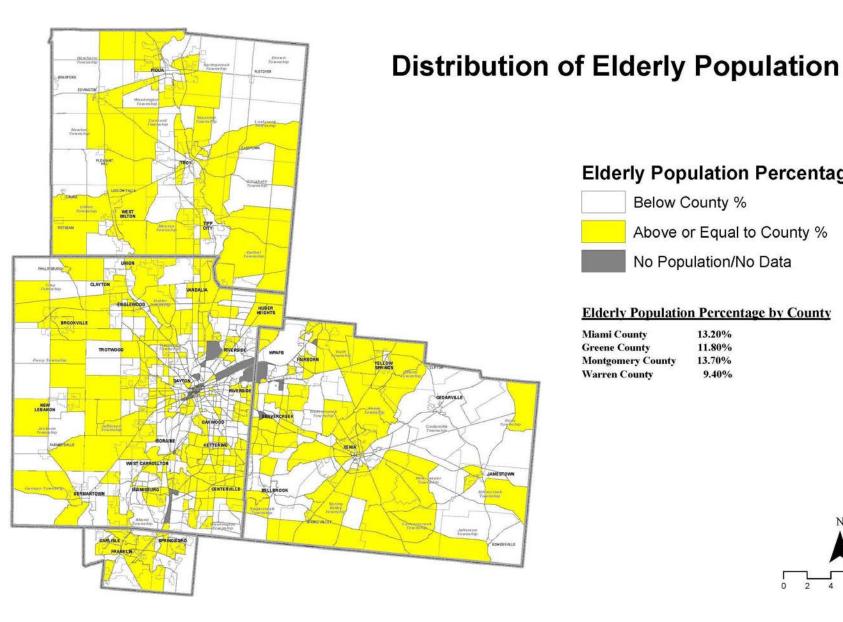
STEP 2: Identify EJ Target Areas

Population composition at the Traffic Analysis Zoñe (TAZ) level was examined to identify concentrations of EJ Target Populations. TAZs were examined for concentrations of each of the EJ Target Population categories. Finally, MVRPC used GIS to produce maps showing spatial distribution of EJ Target Areas.

STEP 3: Tests for Adverse Impact

- Major Facility Accessibility Analysis Travel times from EJ Target areas to the closest major facilities, such as hospitals, shopping centers and universities, are measured on the regional transportation network. These travel times are then compared to those from non-EJ Target Areas.
- Travel Time to Work Analysis The average travel time to work for each TAZ is derived using MVRPC's travel demand forecasting model. And these travel times are then compared between EJ and non-EJ Target Areas.
- Transit Accessibility Analysis Access to public transit was measured for each targeted EJ population group. These measurements were compared with the access enjoyed by populations in non-EJ Target Areas.

^{*} To be completed as part of the LRTP update.



Elderly Population Percentage by County

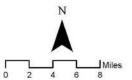
Below County %

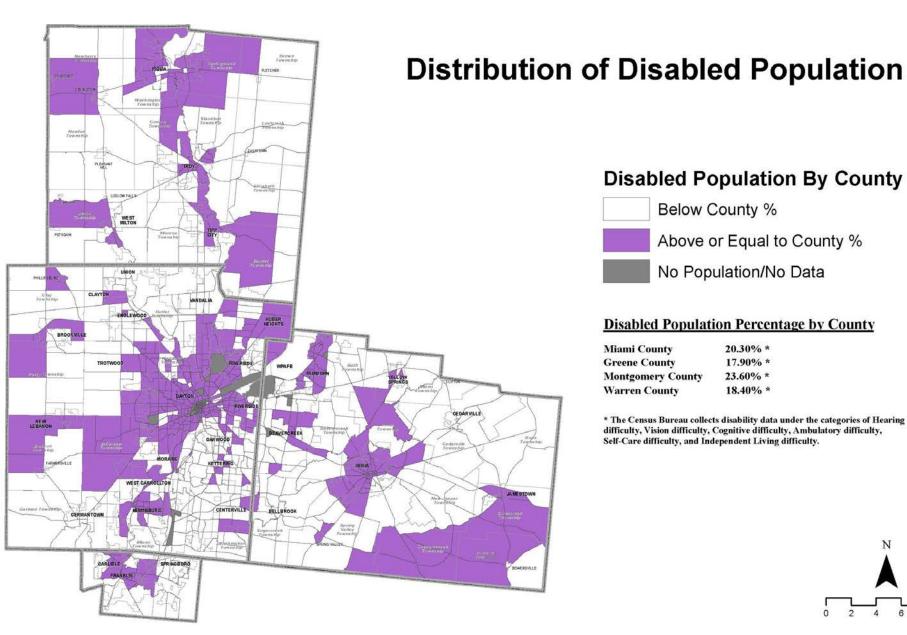
Above or Equal to County %

No Population/No Data

Elderly Population Percentage by County

Miami County 13.20% **Greene County** 11.80% **Montgomery County** 13.70% Warren County 9.40%





Disabled Population By County

Below County %

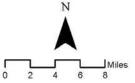
Above or Equal to County %

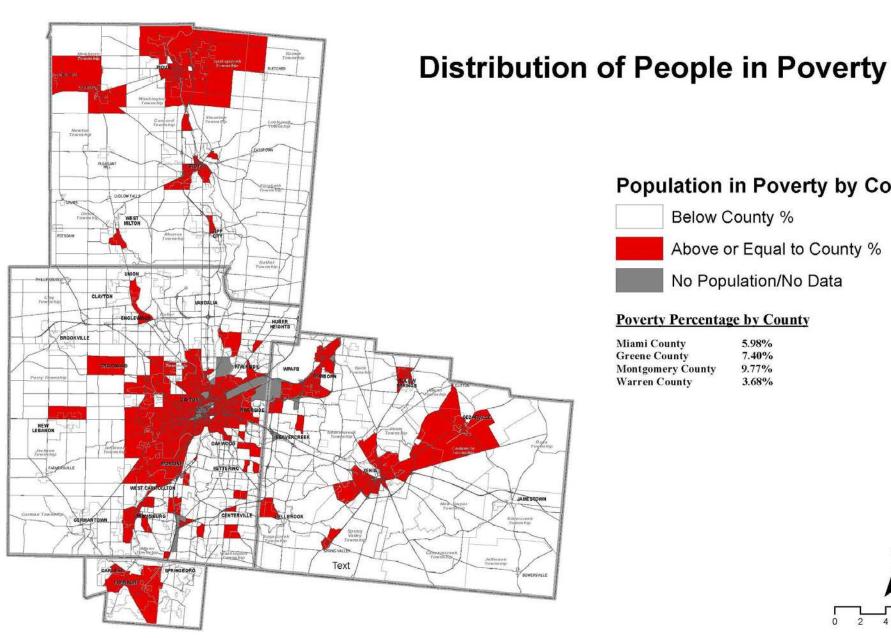
No Population/No Data

Disabled Population Percentage by County

20.30% * **Miami County Greene County** 17.90% * **Montgomery County** 23.60% * Warren County 18.40% *

* The Census Bureau collects disability data under the categories of Hearing difficulty, Vision difficulty, Cognitive difficulty, Ambulatory difficulty, Self-Care difficulty, and Independent Living difficulty.





Population in Poverty by County

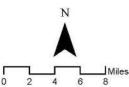
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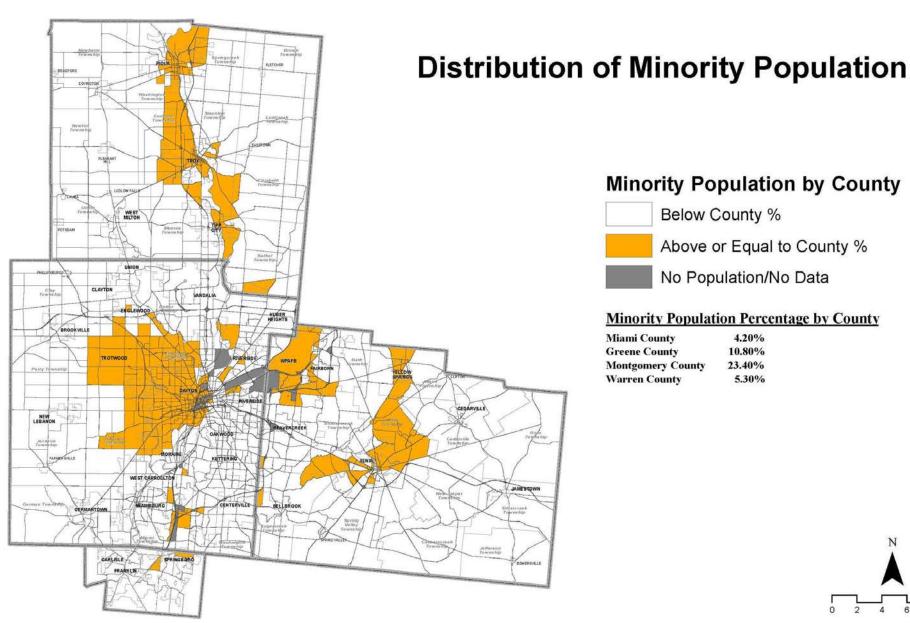
Above or Equal to County %

No Population/No Data

Poverty Percentage by County

Miami County 5.98% **Greene County** 7.40% Montgomery County 9.77% Warren County 3.68%





Minority Population by County

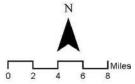
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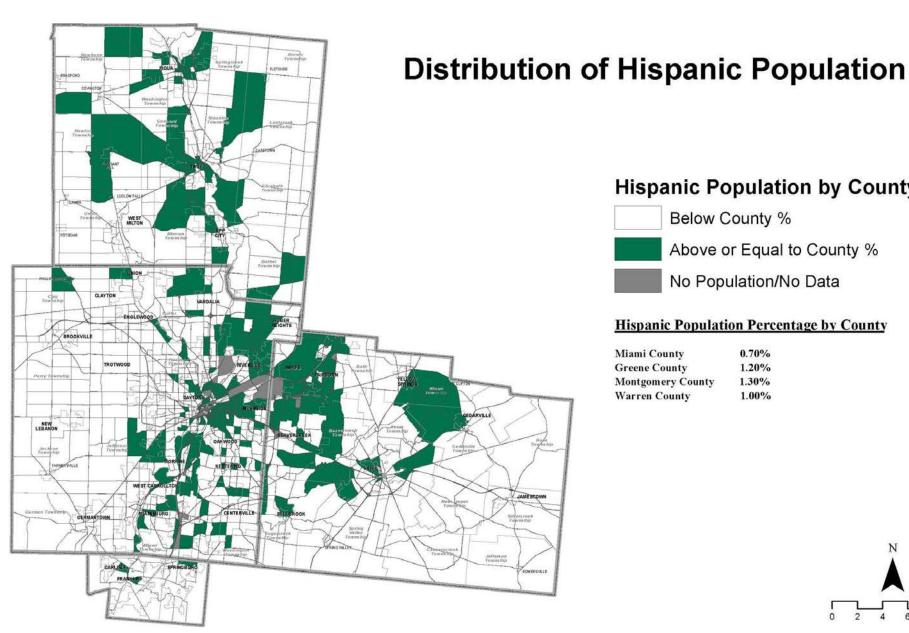
Above or Equal to County %

No Population/No Data

Minority Population Percentage by County

4.20% **Miami County** 10.80% **Greene County** Montgomery County 23.40% **Warren County** 5.30%





Hispanic Population by County

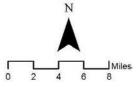
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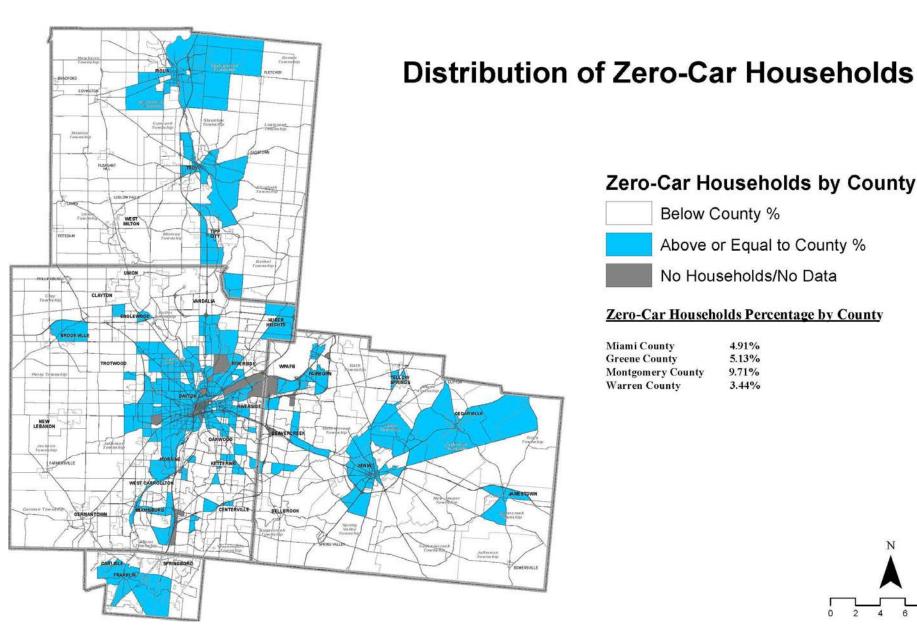
Above or Equal to County %

No Population/No Data

Hispanic Population Percentage by County

Miami County 0.70% **Greene County** 1.20% Montgomery County 1.30% Warren County 1.00%





Zero-Car Households by County

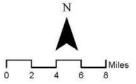
Below County %

Above or Equal to County %

No Households/No Data

Zero-Car Households Percentage by County

Miami County 4.91% **Greene County** 5.13% Montgomery County 9.71% Warren County 3.44%



Land Use & Socioeconomic Projections

Land Use

Land development throughout the Region has been largely concentrated along major highways, namely I-75, I-70, and I-675. As of 2007, over 60% of the Region's land was classified as agricultural or open space. Residential land constituted the next largest percentage (24.2%), followed by institutional and commercial land (3.7% and 3.3%, respectively).

Residential development throughout the Region is spread fairly even throughout the urbanized area, with high concentrations in eastern Montgomery County and western part of Greene County and along I-75 in Miami County.

Commercial development is spread somewhat less evenly, with concentrations around three suburban malls and in the Dayton CBD. Additional commercial areas are found along the major transportation routes. As a result, most parts of the Region are well served by retail and service facilities.

Industrial development in the Region generally follows the I-75 corridor, which parallels the Great Miami River and provides access to factories and office clusters stretching from the City of Piqua in northern Miami County down to southern Montgomery County. The most important concentration of employment outside of the I-75 corridor is located along the Greene/ Montgomery County border near the intersection of I-70 with SR 4 and along I-675.

2010 Socioeconomic Data

As of 2010, the Region is home to a population of 839,012- a decrease of <1% since 2000. The majority of the population (63.8%) lives in Montgomery County Population in the Region is expected to grow through 2040 by 5.4%, with high growth areas spreading outward from the center into northern Warren County and western Greene County. Montgomery County is expected to continue to lose population but remain the population center of the Region.

There are approximately 404,054 households in the Region, with nearly 55.4% located in Montgomery County. The Region is also home to 518,096 jobs. Similar to population projections, growth in number of households and employment by 2040 is expected in high growth areas of western Greene County and northern Warren County. Montgomery County is expected to remain relatively stable in both areas with a -3.1% decrease in number of households and 0.6% increase in employment.

Socioeconomic Data for the 2016 Long Range Transportation Plan

POPULATION	Cei	MVRPC	
County	2000	2010	2040
Greene	147,886	161,573	191,945
Miami	98,868	102,506	109,494
Montgomery	559,062	535,135	518,788
Warren	158,383	212,693	406,133

HOUSEHOLDS	Cer	MVRPC	
County	2000	2010	2040
Greene	55,312	62,770	75,247
Miami	38,437	40,917	43,735
Montgomery	229,229	223,943	216,909
Warren	55,966	76,424	152,723

EMPLOYMENT	MVRPC			
County	2000	2010	2040	
Greene	77,175	88,282	104,877	
Miami	51,317	53,256	57,066	
Montgomery	308,437	299,855	301,690	
Warren	66,469	76,703	112,528	

Source: US Census, MVRPC



