

EAST CENTRAL  
WISCONSIN REGION

**2022**  
**STATE OF THE SYSTEM REPORT**

TRANSPORTATION  
SYSTEM



Approved Month Date, 2023



**East Central builds relationships and cooperative, visionary growth strategies to keep our region beautiful, healthy, and prosperous.**

**-ECWRPC Mission**

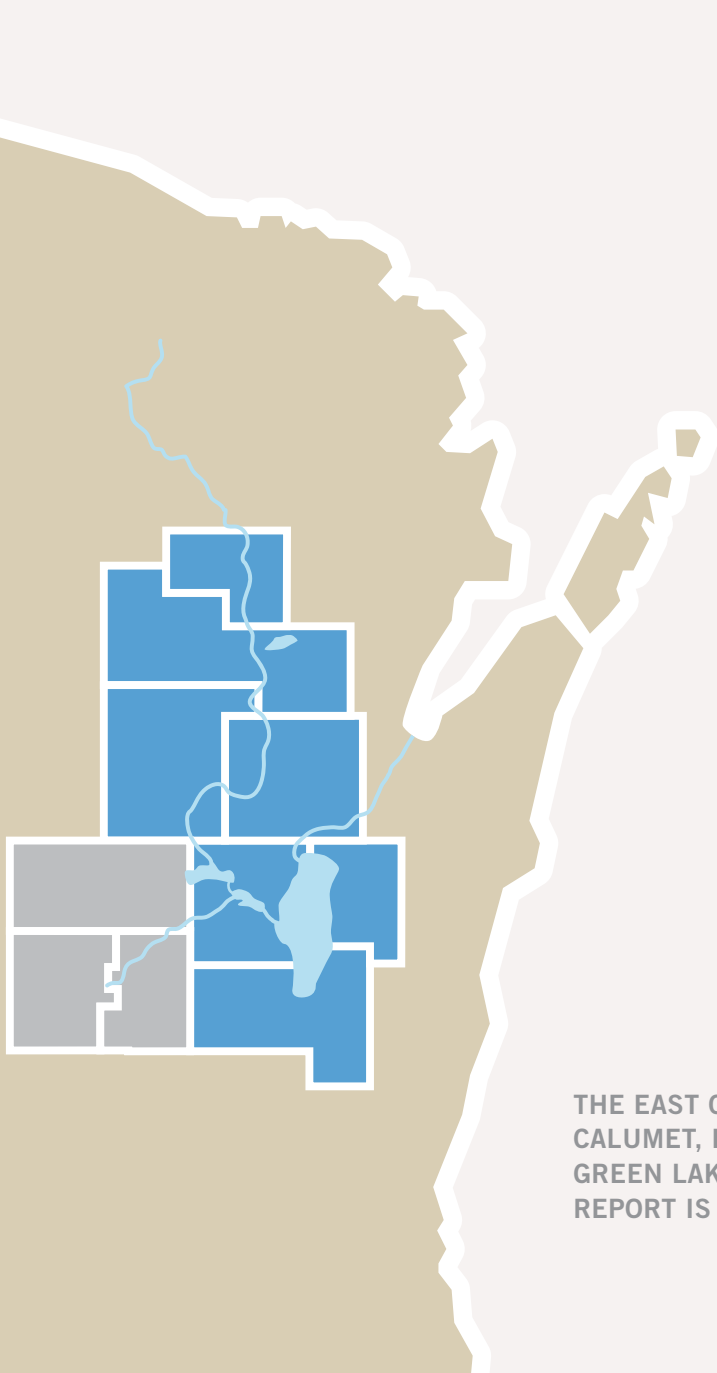
**East Central effectively and efficiently develops, administers, and implements valued planning programs at the regional and local level, enhancing our communities' quality of life.**

**-ECWRPC Vision**





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THE EAST CENTRAL WISCONSIN REGION INCLUDES THE SEVEN MEMBER COUNTIES OF CALUMET, FOND DU LAC, MENOMINEE, OUTAGAMIE, SHAWANO, WAUPACA, AND WINNEBAGO. GREEN LAKE, MARQUETTE, AND WAUSHARA ARE NON-MEMBER COUNTIES. THE DATA IN THIS REPORT IS REPRESENTATIVE OF THE SEVEN MEMBER COUNTIES ONLY.

# PURPOSE & BACKGROUND

The annual State of the System Report is designed to evaluate the status of the East Central Wisconsin regional transportation system and track the progress of defined performance measures through datasets and maps. The report will provide local government staff and outside service providers data about transportation systems.

## BIL & IIJA

The Bipartisan Infrastructure Law (BIL) was signed into law on November 15, 2021. Passed as the Infrastructure and Investment in Jobs Act (IIJA), the BIL outlines federal funding programs for infrastructure including public transportation, motor vehicle and freight safety, highway, hazardous material transportation, equity, and environmental protection. The BIL reemphasizes the integral relationship of land use with transportation infrastructure, as well as the need to address mobility from a multimodal perspective, as previously emphasized under the FAST Act, MAP-21, TEA-21, and SAFETEA-LU.

A series of performance measures have been established by the U.S. Department of Transportation (DOT), the Wisconsin DOT, and the East Central Wisconsin Regional Planning Commission (ECWRPC) to monitor conditions of the transportation system on a local and national scale. Six components of the Fond du Lac transportation system are monitored throughout this report: roadways, transit, the bicycle and pedestrian network, the Safe Routes to School program, airports, and freight.

## ECWRPC

The East Central Wisconsin Regional Planning Commission was established in 1972 to promote intergovernmental cooperation, regional planning, and a vision for the future. ECWRPC assists local governments throughout the region with transportation planning projects and infrastructure management tools. In total, ECWRPC serves the seven counties of Calumet, Fond du Lac, Menominee, Outagamie, Shawano, Waupaca, and Winnebago.

ECWRPC is also designated by the U.S. Department of Transportation as a Metropolitan Planning Organization (MPO) for the Appleton (Fox Cities) and Oshkosh MPOs and serves as staff for the Fond du Lac MPO. MPOs are required to represent municipalities and counties in all urbanized areas with populations over 50,000, as determined by the U.S. Census. In 2022, the population of the Appleton (Fox Cities) MPO was 257,432, the Oshkosh MPO population was 78,794, and the Fond du Lac MPO population was 63,761. The total population of the East Central Wisconsin Region was 619,679 in 2022.

## COVID-19

Travel, commuting, and recreational activity patterns have changed in response to the COVID-19 pandemic and resulting socioeconomic changes. The goal of this report is to evaluate the status of the East Central Wisconsin transportation system as of 2022, but please note that data gathered during the COVID-19 pandemic may not reflect current trends.

## NATIONAL TRANSPORTATION PERFORMANCE MANAGEMENT GOALS

Established by the U.S. Department of Transportation and the U.S. Congress

### SAFETY

To achieve a significant reduction in traffic fatalities and serious injuries on all public roads.

### INFRASTRUCTURE CONDITION

To maintain the highway infrastructure asset system in a state of good repair.

### CONGESTION REDUCTION

To achieve a significant reduction in congestion on the National Highway System.

### SYSTEM RELIABILITY

To improve the efficiency of the surface transportation system.

### FREIGHT MOVEMENT & ECONOMIC VITALITY

To improve the national freight network, strengthen the ability of rural communities to access national and international trade markets, and support regional economic development.

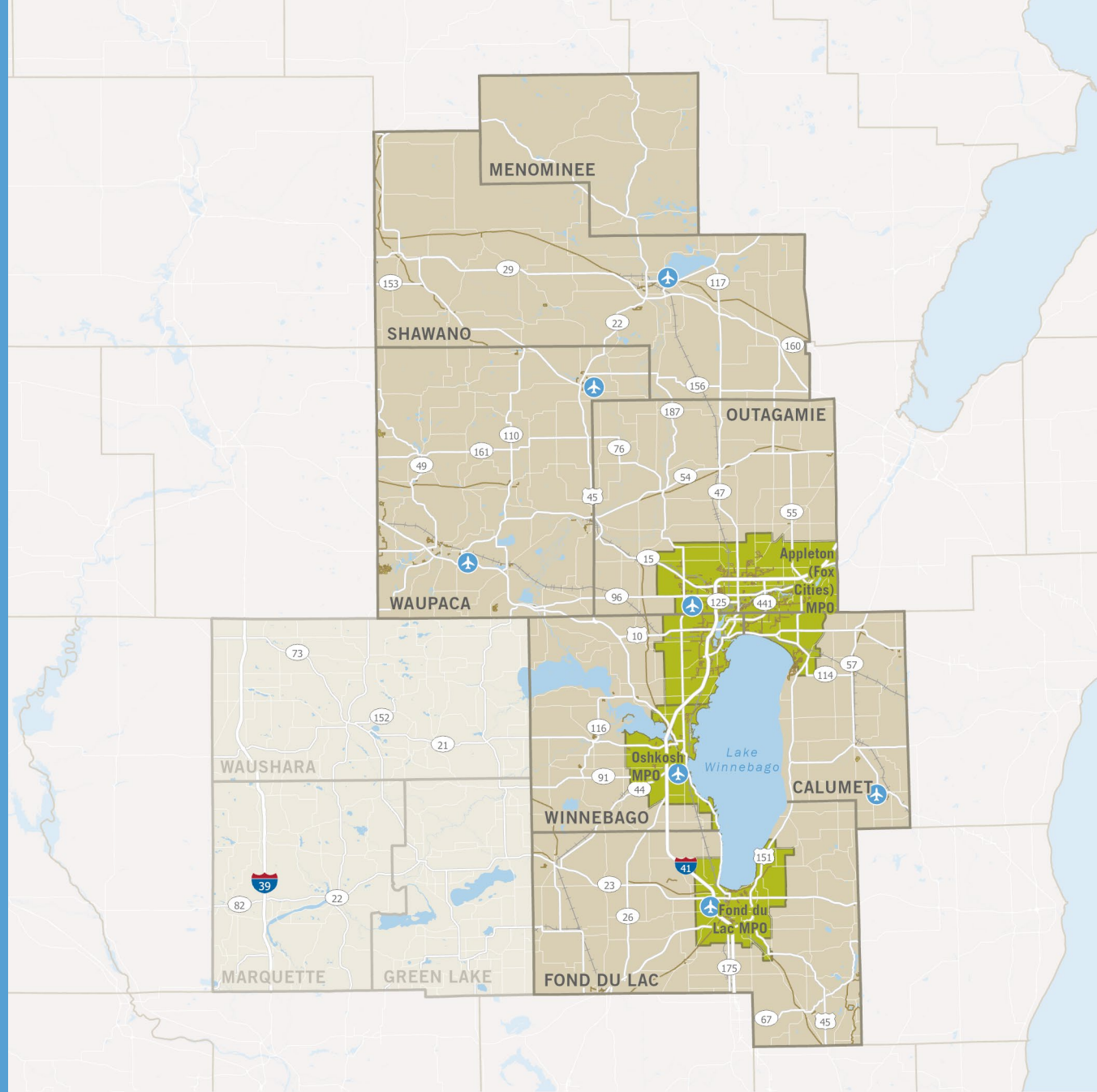
### ENVIRONMENTAL SUSTAINABILITY

To enhance the performance of the transportation system while protecting and enhancing the natural environment.

### REDUCED PROJECT DELIVERY DELAYS

To reduce project costs, promote jobs and the economy, and expedite the movement of people and goods by accelerating project completion through eliminating delays in the project development and delivery process, including reducing regulatory burdens and improving agencies' work practices.

# EAST CENTRAL WISCONSIN TRANSPORTATION SYSTEM



0 2½ 5 10 Miles

Base data provided by Regional Counties 2022.  
MPO data provided by WisDOT/ECWRPC 2010.

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✈ Airport

— Trail

++++ Railroad

■ MPO Planning Area

■ ECWRPC Member County

■ ECWRPC Non-Member County





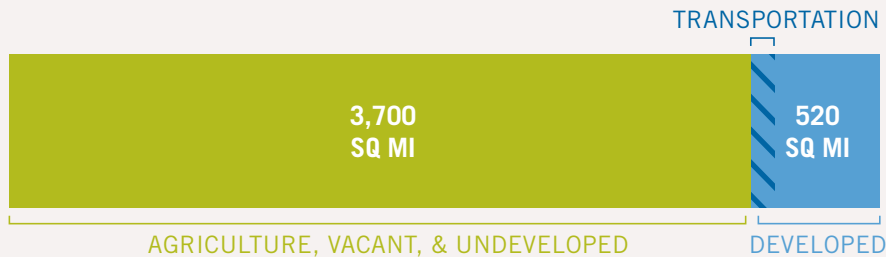
## OVERVIEW OF THE REGION



## LAND USE & POPULATION EAST CENTRAL WI

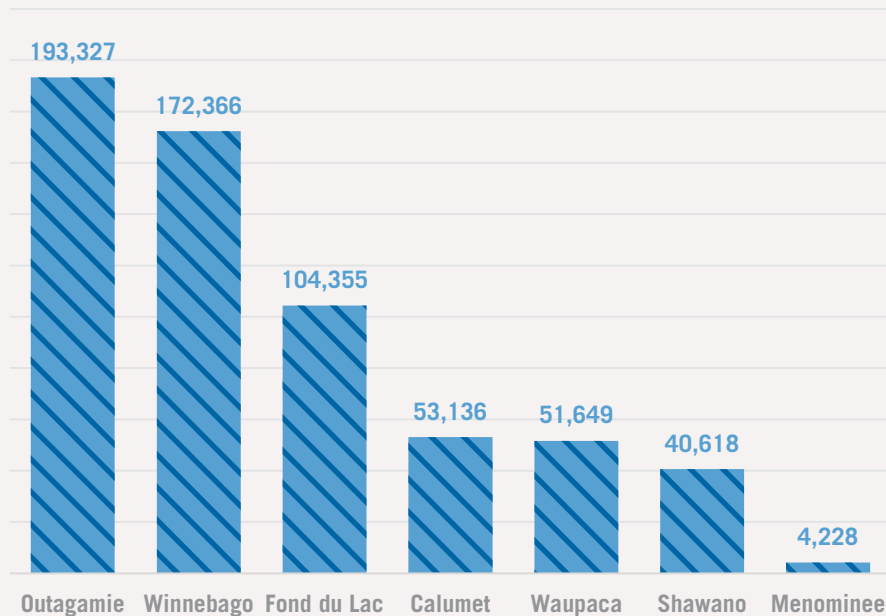
ECWRPC serves seven counties with a total population of 619,679. The urbanized areas of Oshkosh, Fond du Lac, and the Fox Cities extend around Lake Winnebago, while rural communities are located throughout all seven counties. The people who live in East Central Wisconsin enjoy six different ecological landscapes that give the region its diverse beauty and natural resources.

### Existing Land Use



Source: ECWRPC 2021

### Population by County

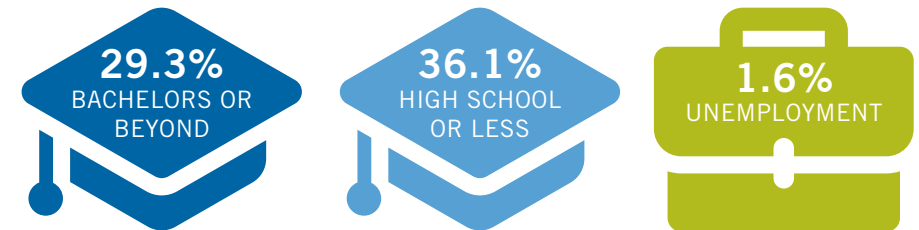


Source: ESRI Business Analyst 2022

## EMPLOYMENT EAST CENTRAL WI

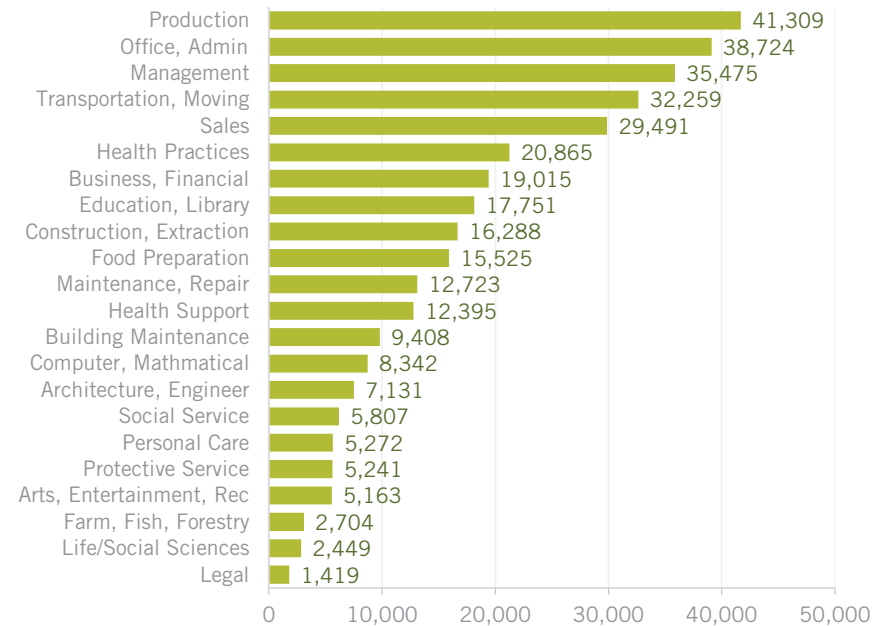
The vibrant economy of East Central Wisconsin is made up of approximately 22,284 businesses with 321,065 total employees. Regionally, 41,309 people are employed in production jobs, making it the most popular occupation at 13% of the area's workforce. White collar laborers constitute 59% of the total workforce, while 31% of laborers are blue collar and 10% are service workers.

### Employment Quick Facts



Source: ESRI Business Analyst 2022

### Number of Employees by Occupation



Source: ESRI Business Analyst 2022

# HOUSING & INCOME

EAST CENTRAL WI

East Central Wisconsin features 253,946 households, with an average of 2.37 people per household. Of the 273,302 housing units in the region, a third were built before 1960. The median per capita income in East Central Wisconsin is \$36,940. 32% of households receive social security income, 8% receive SNAP benefits, and 2% receive public assistance income.

## Housing & Income Quick Facts



**253,946**  
TOTAL  
HOUSEHOLDS



**\$216,786**  
MEDIAN HOME  
VALUE



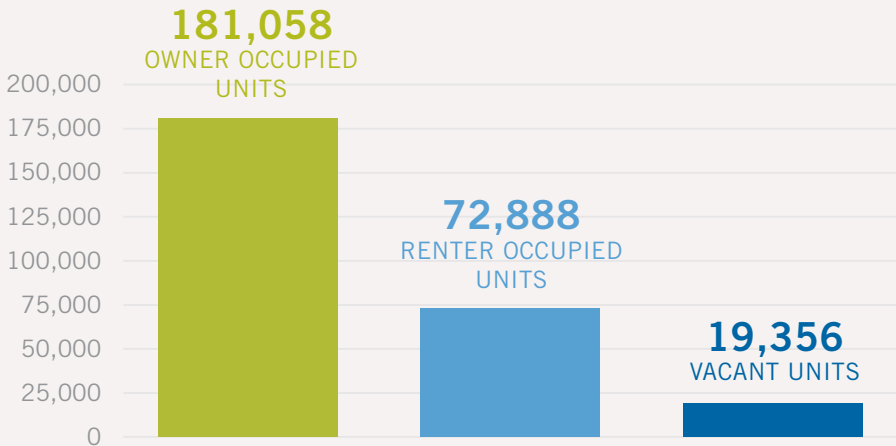
**\$69,155**  
MEDIAN  
HOUSEHOLD  
INCOME



**\$176,428**  
MEDIAN NET  
WORTH

Source: ESRI Business Analyst 2022

## Housing Occupancy Estimates



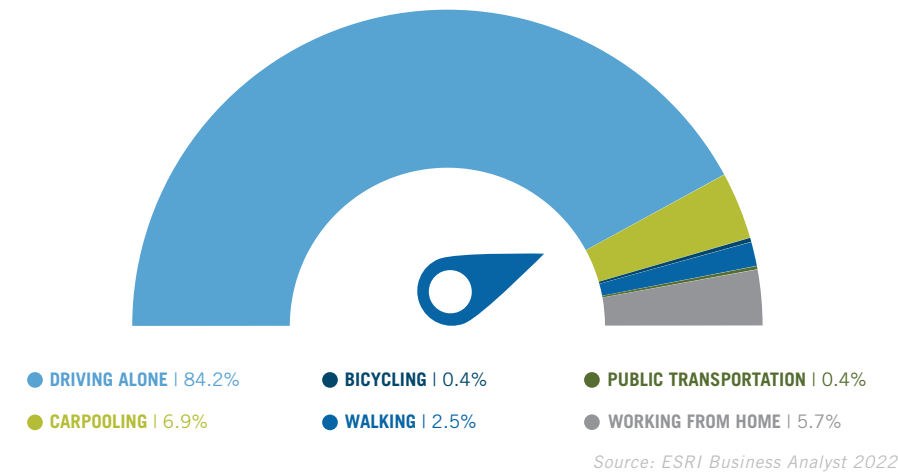
Source: ESRI Business Analyst 2022

# COMMUTING

EAST CENTRAL WI

Approximately 29,390 people commute to work in East Central Wisconsin, and 5.7% of all workers work from home. 39% of people commute in under 15 minutes, 39% commute in 15 to 30 minutes, and 22% commute in over 30 minutes. While much of the region is dependent on individual automobile ownership to get to work, shared-ride, biking, and walking commutes are increasing.

## Means of Transportation to Work



## Vehicle Availability



Source: ESRI Business Analyst 2022











## REGIONAL PERFORMANCE MEASURES



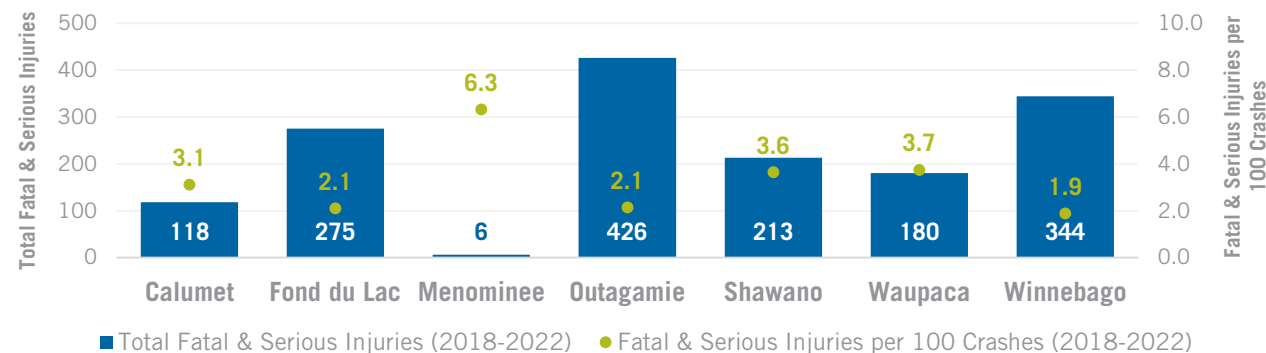
# ROADWAYS EAST CENTRAL WI

From interstates to local roads, principal arterials to minor collectors, East Central Wisconsin has a vast and varied network of roads. With an average PASER rating of 6.3, the region's 11,148-mile roadway system is essential for keeping communities connected and freight moving. ECWRPC provides transportation planning services and funding opportunities to achieve a balanced multimodal roadway system that meets the needs of all users.

## Roadway Performance Measures

	 BRIDGES WITH A SUFFICIENT RATING	 BRIDGES ELIGIBLE FOR FUNDING	 ANNUAL AVG. HOUSEHOLD VEHICLE MILES TRAVELED	 TOTAL ANNUAL MOTORIST CRASHES	 ANNUAL MOTORIST SERIOUS INJURIES	 ANNUAL MOTORIST FATAL INJURIES
Calumet	46.7%	46.7%	22,768	757	19	3
Fond du Lac	64.9%	28.1%	21,195	2,699	38	11
Menominee	60%	20%	23,282	24	0	0
Outagamie	62.6%	32.5%	20,701	4,220	65	10
Shawano	61%	30.8%	24,814	651	20	7
Waupaca	70.9%	20.3%	22,558	736	26	5
Winnebago	62.3%	22.1%	18,147	3,685	58	8
Region	62.8%	28.3%	21,924	12,772	226	44

## Fatal & Serious Injuries per 100 Crashes: All Modes (2018-2022)



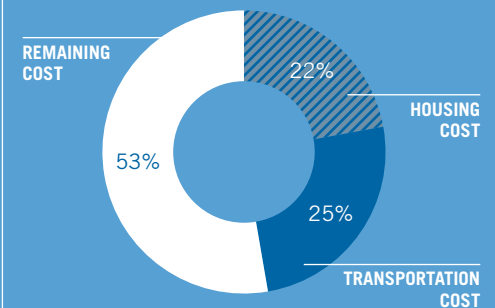
*Crash, bridge, PASER, functional class data: WisDOT 2022. Vehicle Ownership data: Housing and Transportation Affordability Index 2022.*

## VEHICLE OWNERSHIP COST IN EAST CENTRAL WISCONSIN

### HOUSEHOLD VEHICLE OWNERSHIP + ANNUAL TRANSPORTATION COST

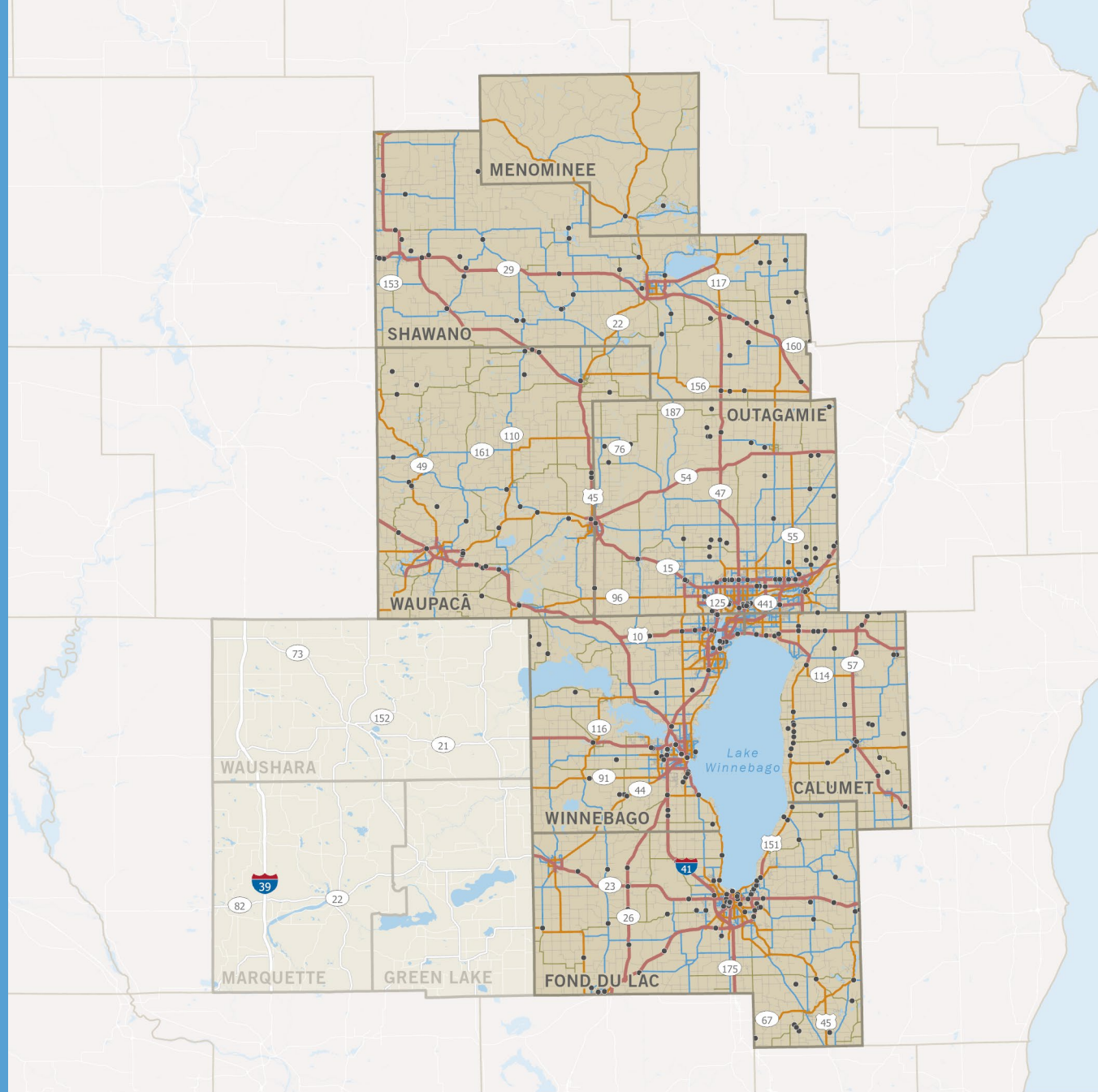
COUNTY	AVG VEHICLES PER HH	AVG TRANSPORTATION COST PER HH
CALUMET	2.09	\$15,942
FOND DU LAC	1.95	\$14,888
MENOMINEE	1.97	\$15,270
OUTAGAMIE	1.95	\$14,825
SHAWANO	2.09	\$16,236
WAUPACA	2.01	\$15,417
WINNEBAGO	1.79	\$13,466

### HOUSING + TRANSPORTATION COST AS A PERCENT OF HOUSEHOLD INCOME





# ROADWAYS FUNCTIONAL CLASSIFICATION & BRIDGE FUNDING



0 2½ 5 10 Miles

Base data provided by Regional Counties 2022.  
MPO data provided by WisDOT/ECWRPC 2010.

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Functional Class (Urban & Rural)

- Principal Arterial
- Minor Arterial
- Major Collector
- Minor Collector
- Local







• Bridges Eligible for Funding

- ECWRPC Member County
- ECWRPC Non-Member County

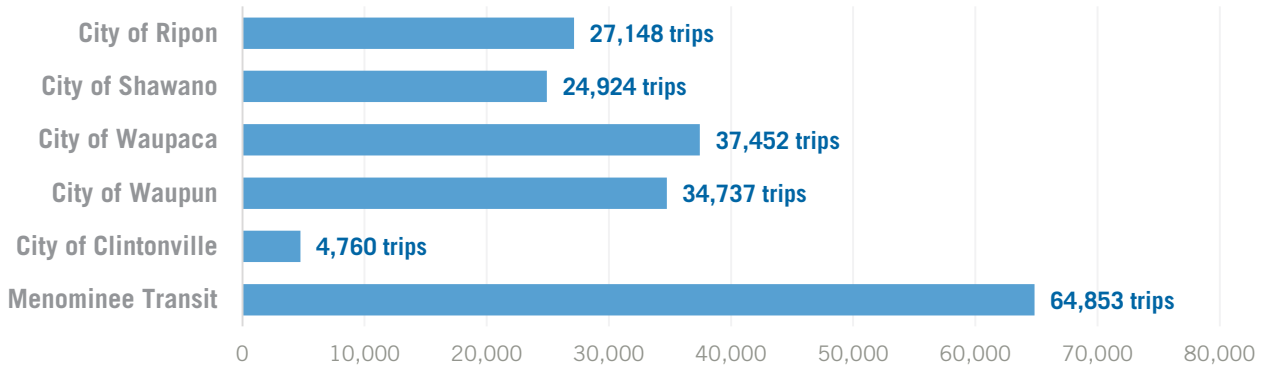
# TRANSIT EAST CENTRAL WI

The four transit systems in East Central Wisconsin carry tens of thousands of riders on hundreds of thousands of trips each year. Increased transit ridership builds community connections, reduces traffic congestion, increases economic opportunity, and lowers carbon emissions. Rural workforce transportation is a challenge throughout the region. Notably, Waupaca County received a Workforce Innovation Grant in 2022 to create an on-demand microtransit system, Waupaca Catch A Ride.

## Transit Performance Measures

	 ANNUAL UNLINKED TRIPS: BUS	 ANNUAL UNLINKED TRIPS: DEMAND RESPONSE	 OPERATING EXPENSES PER UNLINKED TRIP	 TOTAL ANNUAL FARE REVENUES	 POPULATION IN THE 10 MIN. TRANSIT WALKSHED	 HOUSEHOLDS IN THE 10 MIN. TRANSIT WALKSHED
Fond du Lac Transit	85,635	13,768	\$18.14	\$141,258	36,506	15,752
GO Transit	472,607	48,215	\$8.73	\$714,990	54,780	23,607
Menominee Transit	10,622	64,853	\$58.23	\$52,981	6,695	6,540
Valley Transit	544,030	114,336	\$11.53	\$991,230	112,895	47,326

## Rural Transit Annual Unlinked Trips: Demand Response (2021)



Unlinked trips, revenue data: FTA 2021. Population, hospitals data: ECWRPC 2022.

**PUBLIC TRANSIT SERVICES**  
IN EAST CENTRAL WISCONSIN

**FOND DU LAC TRANSIT**  
CITY OF FOND DU LAC

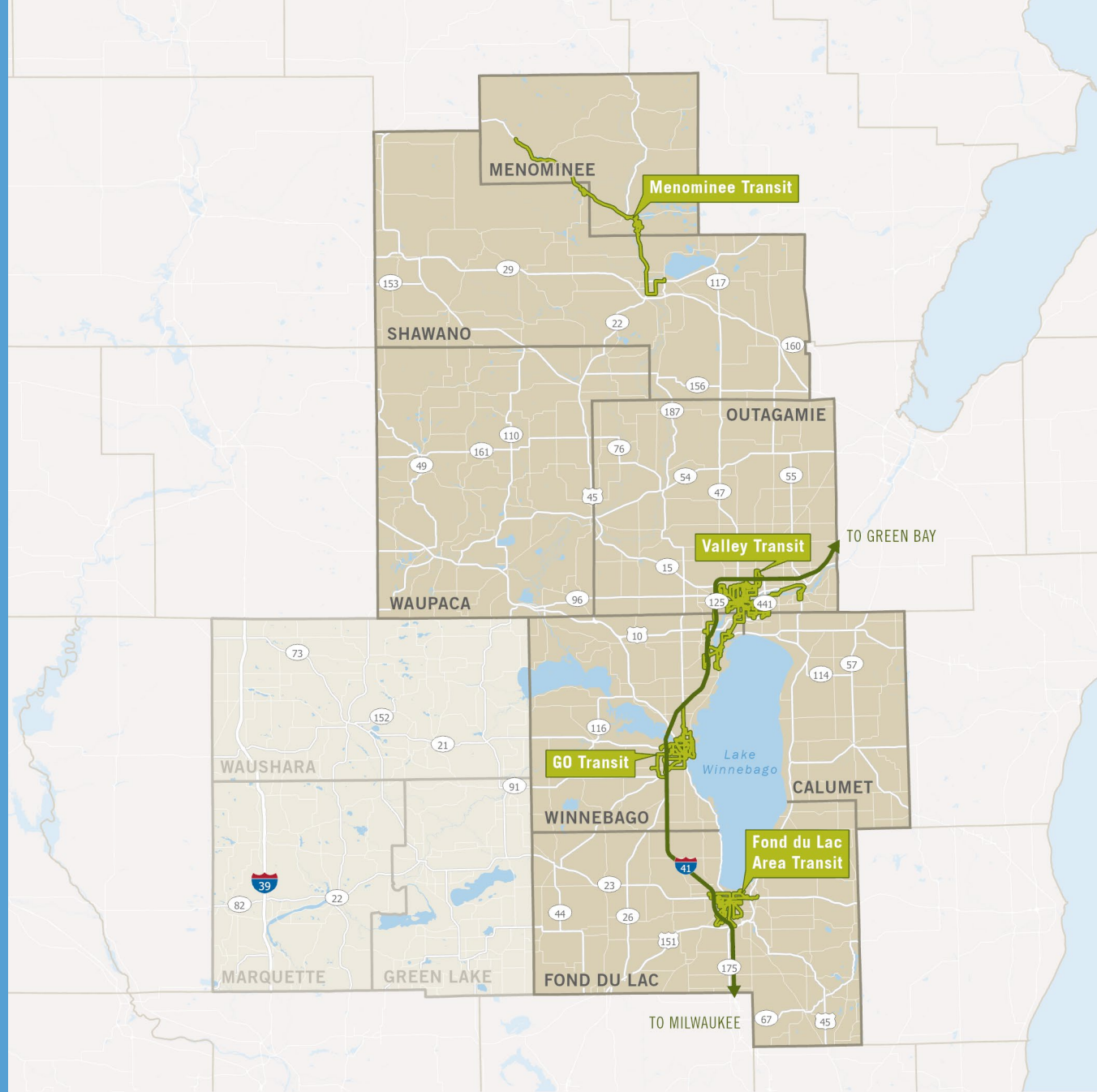
**GO TRANSIT**  
CITY OF OSHKOSH

**MENOMINEE TRANSIT**  
MENOMINEE COUNTY

**VALLEY TRANSIT**  
FOX CITIES AREA

# TRANSIT

## FIXED TRANSIT & AMTRAK BUS SERVICES



0 2½ 5 10 Miles

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Fixed Transit Route

Amtrak Thruway Bus Service Route

ECWRPC Member County







ECWRPC Non-Member County

# BICYCLE & PEDESTRIAN NETWORK

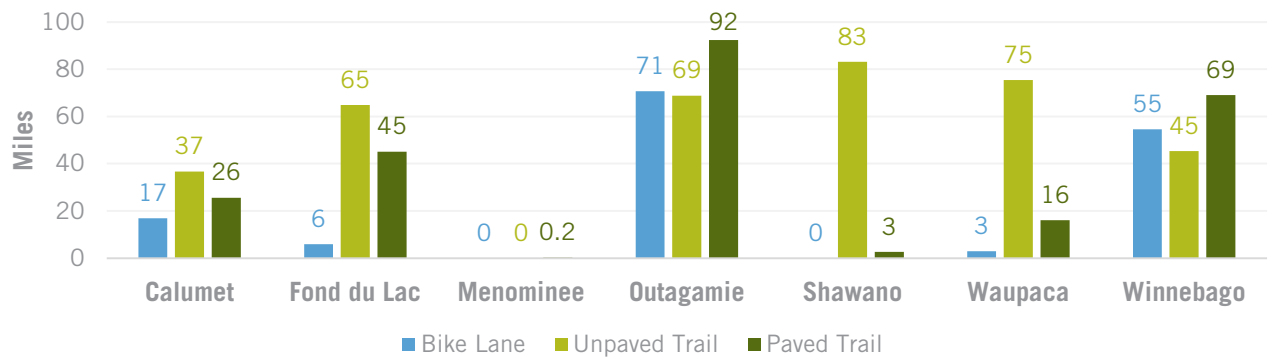
EAST CENTRAL WI

East Central Wisconsin bicyclists and pedestrians enjoy 2,870 miles of bike lane, trail, and sidewalk. Rural and urban communities recognize the importance of active transportation as well as recreation and continue to expand and connect infrastructure to improve the quality of life of community members. Local trails create regional systems such as the High Cliff Connection that is currently being developed to provide a cycling route from the Fox Cities to High Cliff State Park.

## Bicycle & Pedestrian Performance Measures

	 TOTAL MILES OF BIKE & PED FACILITIES	 TRAIL COUNTS CONDUCTED IN 2022	 TOTAL ANNUAL PEDESTRIAN CRASHES	 TOTAL ANNUAL BICYCLE CRASHES	 ANNUAL BIKE & PED SERIOUS INJURIES	 ANNUAL BIKE & PED FATAL INJURIES
Calumet	254.2	0	4	6	0	1
Fond du Lac	519.2	15	22	15	9	0
Menominee	7.8	0	0	0	0	0
Outagamie	963.8	13	37	30	15	0
Shawano	152.7	0	6	1	2	1
Waupaca	201.6	0	9	2	2	0
Winnebago	770.8	0	30	32	9	2
Region	2,870.1	28	108	86	37	4

## Trail and Bike Lane Mileage by County



Crash data: WisDOT 2022. Bike/ped facility: ECWRPC 2022. Complete Streets data: Bike Fed 2022.

## COMPLETE STREETS

Complete streets are for everyone, no matter who they are or how they travel. Each street should be examined in its own context to determine the appropriate bicycle and pedestrian facilities.



### SPACE FOR PEOPLE

Curb ramps, crosswalks, curb extensions, sidewalks



### SPACE FOR BIKES

Bike lanes, trails, wide paved shoulders



### SPACE FOR CARS

Roundabouts, narrower travel lanes, traffic calming



### SPACE FOR MASS TRANSIT

Bus pullouts, shelters, transit-only lanes



### SPACE FOR SHARED MOBILITY

Shared bike and scooter parking, median islands



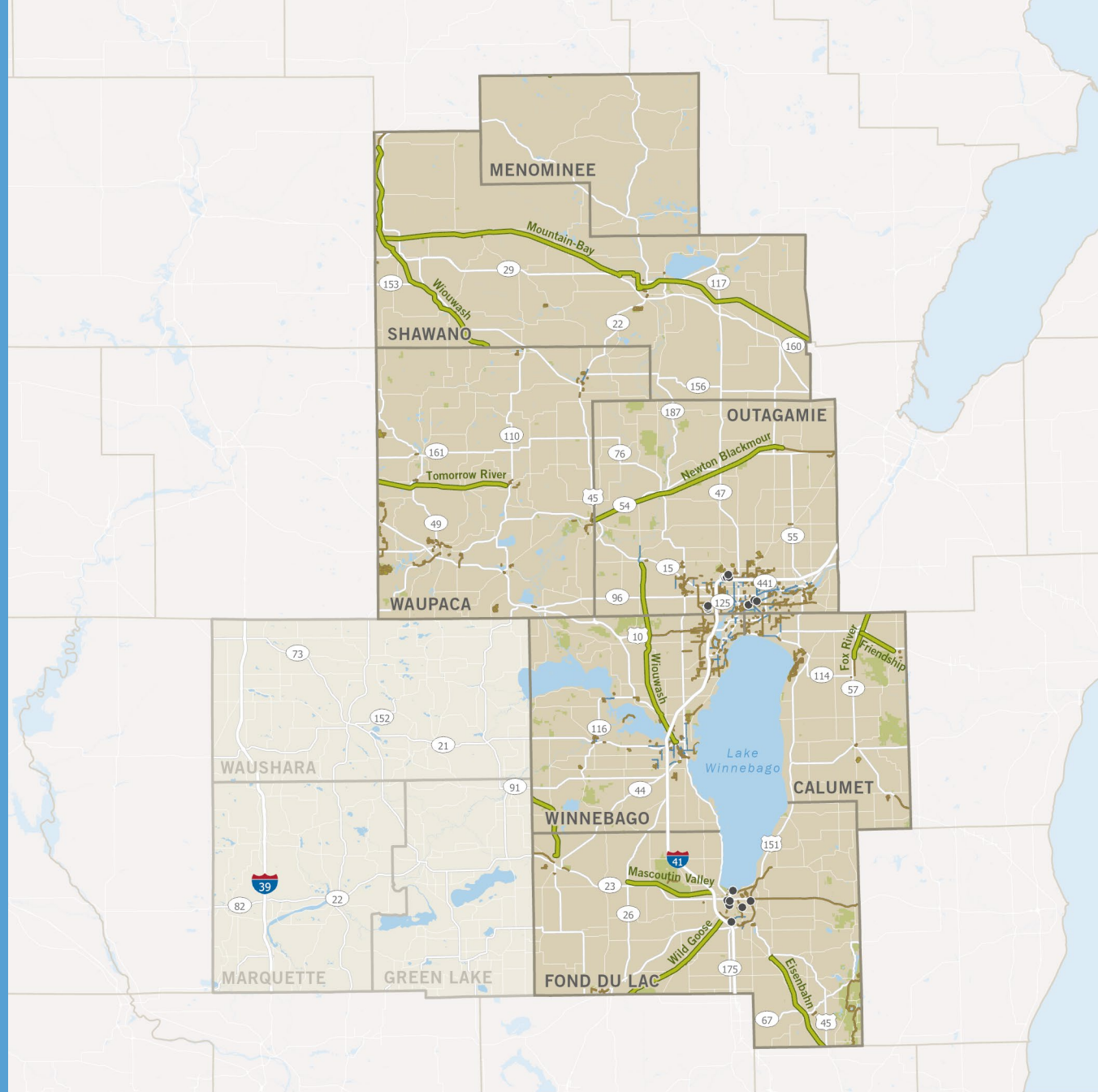
### SPACE FOR COMFORT & CULTURE

Street furniture, parks, public art, lighting



# BICYCLE & PEDESTRIAN NETWORK

## TRAILS & TRAIL COUNTERS



0 2½ 5 10 Miles

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- 2022 Trail Counter Location
- Bike Lane
- Local Trail
- State Trail

- Park
- ECWRPC Member County
- ECWRPC Non-Member County

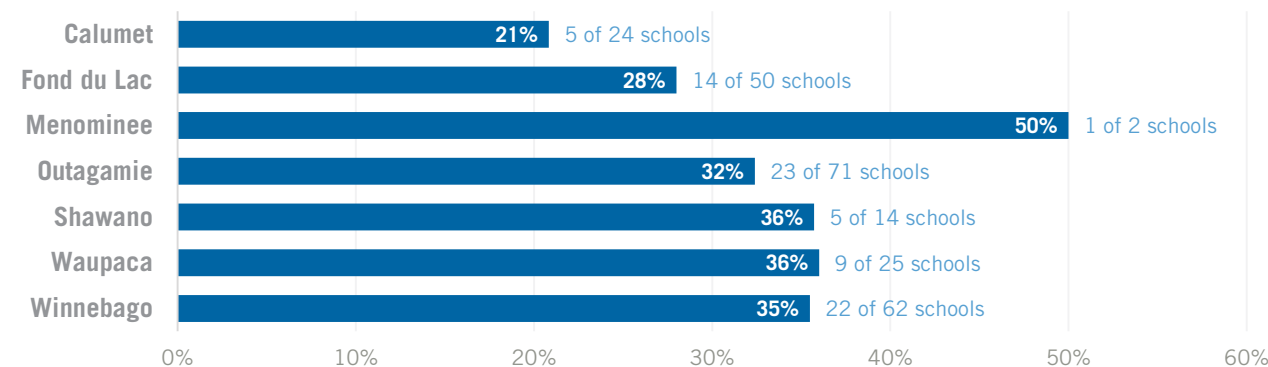
# SAFE ROUTES TO SCHOOL EAST CENTRAL WI

The East Central Wisconsin Regional Safe Routes to School (SRTS) Program empowers local communities and school districts with resources to increase the appeal, safety, and practicality of walking and biking to school for students. Current funding for this program allows staff to work with K-8 students. However, new funding from the Bipartisan Infrastructure Law would allow for high schools to participate in programming. In 2022, the ECWRPC SRTS Program worked with 79 total schools.

## SRTS Performance Measures

	 TOTAL SCHOOLS PARTICIPATING IN SRTS PROGRAM	 INTERNATIONAL WALK TO SCHOOL DAY	 BIKE TO SCHOOL MONTH	 FREQUENT WALKER PROGRAM	 WALKING SCHOOL BUS PROGRAM	 WINTER WALK TO SCHOOL MONTH
Calumet	5	2	1	4	0	1
Fond du Lac	14	14	11	9	1	11
Menominee	1	1	1	0	0	1
Outagamie	23	17	20	10	4	9
Shawano	5	5	5	0	0	4
Waupaca	9	9	9	3	0	8
Winnebago	22	21	12	5	1	7
Region	79	69	59	31	6	41

## Percent of K-8 Schools Participating in ECWRPC SRTS Program by County (2022)



SRTS data: ECWRPC 2022.

## GUIDING PRINCIPLES THE SIX E'S



EQUITY



ENGAGEMENT



EVALUATION



ENGINEERING

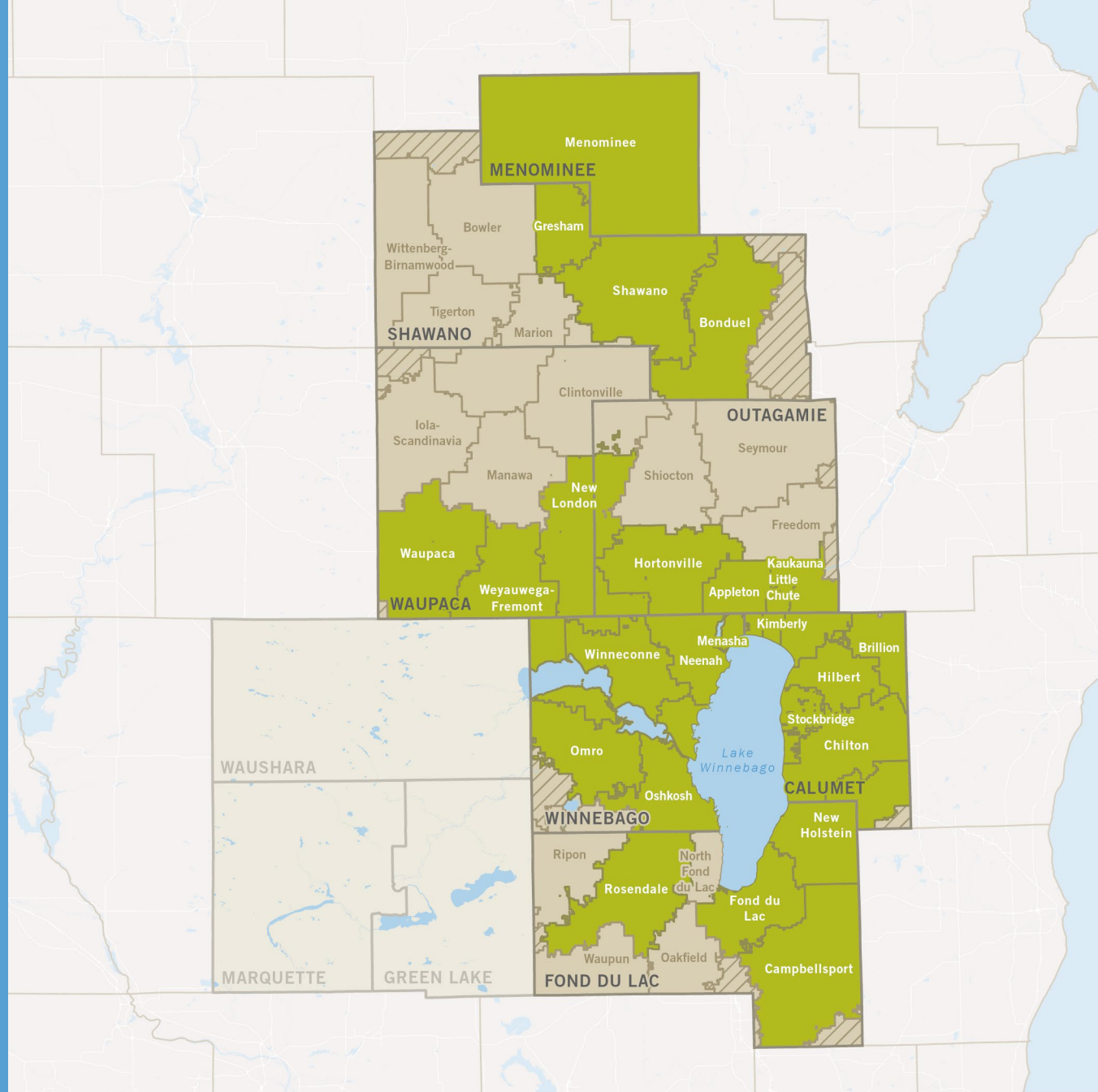


ENCOURAGEMENT



EDUCATION

# SAFE ROUTES TO SCHOOL PARTICIPATING SCHOOL DISTRICTS



0 2½ 5 10 Miles

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School Districts

SRTS Participation

Not Participating

Participating

No Schools in Region

ECWRPC Member County







ECWRPC Non-Member County

# FREIGHT & AIRPORTS

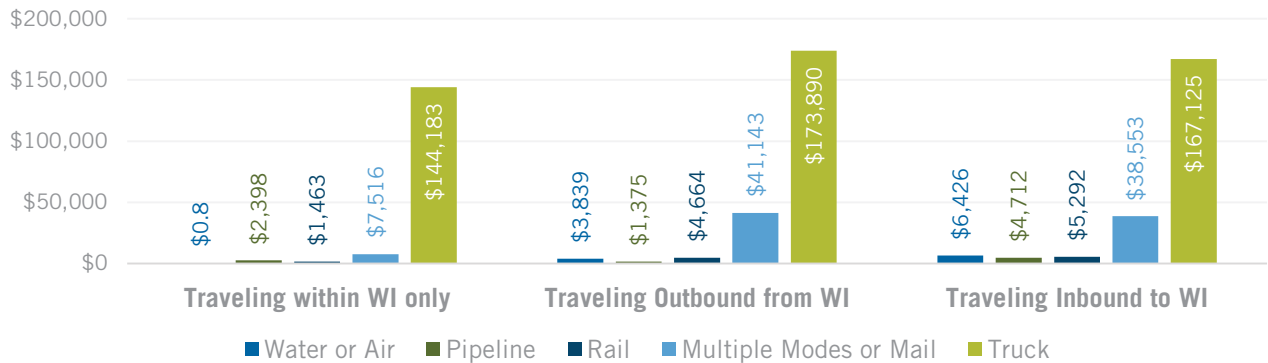
EAST CENTRAL WI

The manufacturing economy of East Central Wisconsin has strong roots, and the regional transportation system excels at moving freight over railways, runways, roadways, and waterways. The Appleton International Airport and Wittman Regional Airport carry passengers and freight year-round. Fond du Lac, Shawano, Clintonville, Waupaca, and New Holstein host mid-sized and small airfields as well.

## Freight & Airport Performance Measures

	 TOTAL NUMBER OF AIRPORTS	 ACRES OF COMMERCIAL & INDUSTRIAL LAND	 MILES OF TRUCKING ROUTES	 MILES OF ACTIVE RAILROAD	 NUMBER OF RAILROAD CROSSINGS	 ANNUAL CRASHES AT RAILROAD CROSSINGS
Calumet	1	2,279	196.7	38	100	0
Fond du Lac	1	5,822.9	460	60.4	119	1
Menominee	0	164.5	81.5	0	0	0
Outagamie	1	9,522.1	407.9	73.3	219	0
Shawano	1	2,636.6	381.8	23.1	46	0
Waupaca	2	3,286.5	373.4	27.4	63	0
Winnebago	1	7,920.7	352	66.3	204	3
Region	7	31,632.3	2,253.3	288.5	751	4

## Shipment Value by Transportation Mode in Wisconsin (million U.S. dollars)



Airport data: FAA 2022. Rail Data: BTS 2022. Freight data: Freight Analysis Framework 2022 projections. Crash data: WisDOT 2022.

## ALL FREIGHT MOVEMENT IN WISCONSIN

### TOP TRADING PARTNERS

STATE	1000 TONS	OVERALL %
WISCONSIN	325,022	69.9%
ILLINOIS	21,436	4.6%
TEXAS	21,347	4.6%
MINNESOTA	21,289	4.6%

### TOTAL SHIPMENTS BY WEIGHT

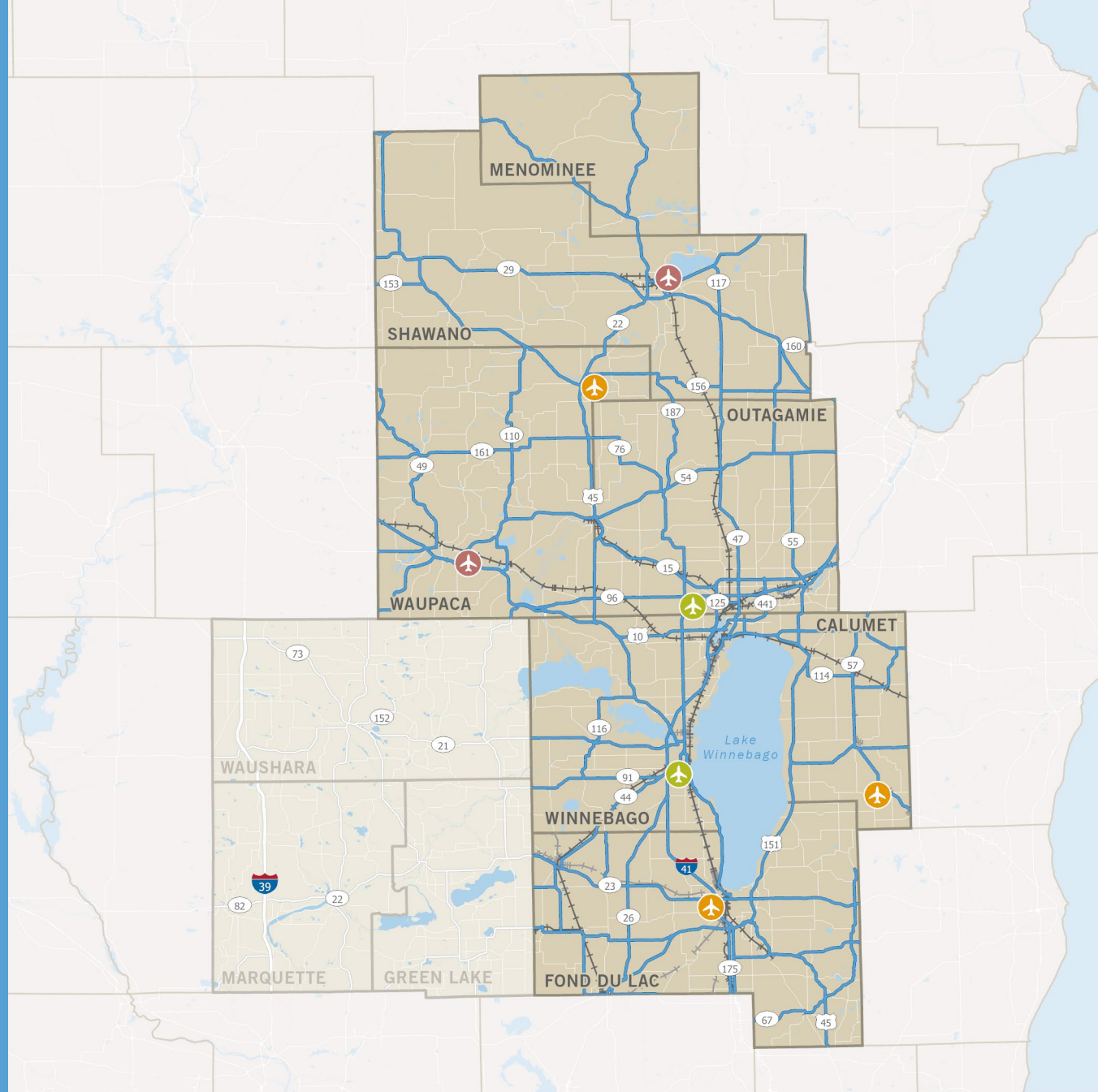
MOVEMENT	1000 TONS
INBOUND	137,956
OUTBOUND	139,865
WITHIN WISCONSIN	325,022
TOTAL	602,843

### TOTAL SHIPMENTS BY VALUE

MOVEMENT	MILLION U.S. DOLLARS
INBOUND	\$222,284
OUTBOUND	\$225,190
WITHIN WISCONSIN	\$155,561
TOTAL	\$603,035



# FREIGHT & AIRPORTS REGIONAL NETWORK







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## Airport Class

-  Air Carrier & Cargo
-  Transport & Corporate
-  General & Basic Utility
-  Trucking Route

-  Active Railroad
-  Spur Rail or Not in Use
-  ECWRPC Member County
-  ECWRPC Non-Member County





## RESOURCES



# TRANSPORTATION PROGRAMS & MAP LINKS

East Central Wisconsin Regional Planning Commission (ECWRPC) provides the information and planning services necessary to solve problems that transcend the boundaries and fiscal capabilities of individual governmental jurisdictions. In addition to administering the Metropolitan Planning Organization (MPO) program, ECWRPC provides planning and technical assistance to participating governments with issues of concern to that jurisdiction. ECWRPC's planning and technical specialists are responsible for the following transportation programs in East Central Wisconsin.



## **PUBLIC TRANSIT & SPECIALIZED TRANSPORTATION PLANNING**

ECWRPC helps communities plan and fund shared ride vehicle services that provide reliable, efficient, and essential connections to all of life's important destinations.



## **BICYCLE & PEDESTRIAN PLANNING**

ECWRPC brings WisDOT, local governments and bicycle/pedestrian advocacy groups together to develop and coordinate multi-modal trail systems and activities.



## **SAFE ROUTES TO SCHOOL PLANNING**

The ECWRPC Regional Safe Routes to School program focuses on empowering local communities and school districts with the resources and knowledge needed to implement SRTS activities.



## **REGIONAL HIGHWAY CORRIDOR PLANNING**

ECWRPC provides a multi-jurisdictional forum for stakeholders that promotes coordination and cooperation between state and federal agencies, local governments, and the public.



## **FREIGHT PLANNING**

ECWRPC coordinates the safe, secure, and efficient movement of freight into, out of, and between communities, ensuring this critical component of economic viability and quality of life runs smoothly.



## **LONG RANGE TRANSPORTATION PLANNING**

ECWRPC researches and outlines planning processes for infrastructure and programs covering all modes of transportation in the region to comply with federal and state planning requirements.



## **REGIONAL TECHNICAL ASSISTANCE**

ECWRPC provides services and guidance to counties and local units of government as part of WisDOT's Regional Transportation Program.



## **COMMUNITY PLANNING ASSISTANCE**

Municipalities can contract with ECWRPC for staff expertise in areas such as Transportation Planning, Regional Comprehensive Planning, Open Space and Recreation Planning, and GIS.

## **TRANSPORTATION HUB**

A variety of online mapping applications are hosted on the ECWRPC Transportation Hub to assist with performance measure monitoring. Click the buttons below to visit each interactive map or dashboard.

