

EAST CENTRAL
WISCONSIN REGION

2023
STATE OF THE SYSTEM REPORT

TRANSPORTATION
SYSTEM



DRAFT

Approved Month Date, 2024



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

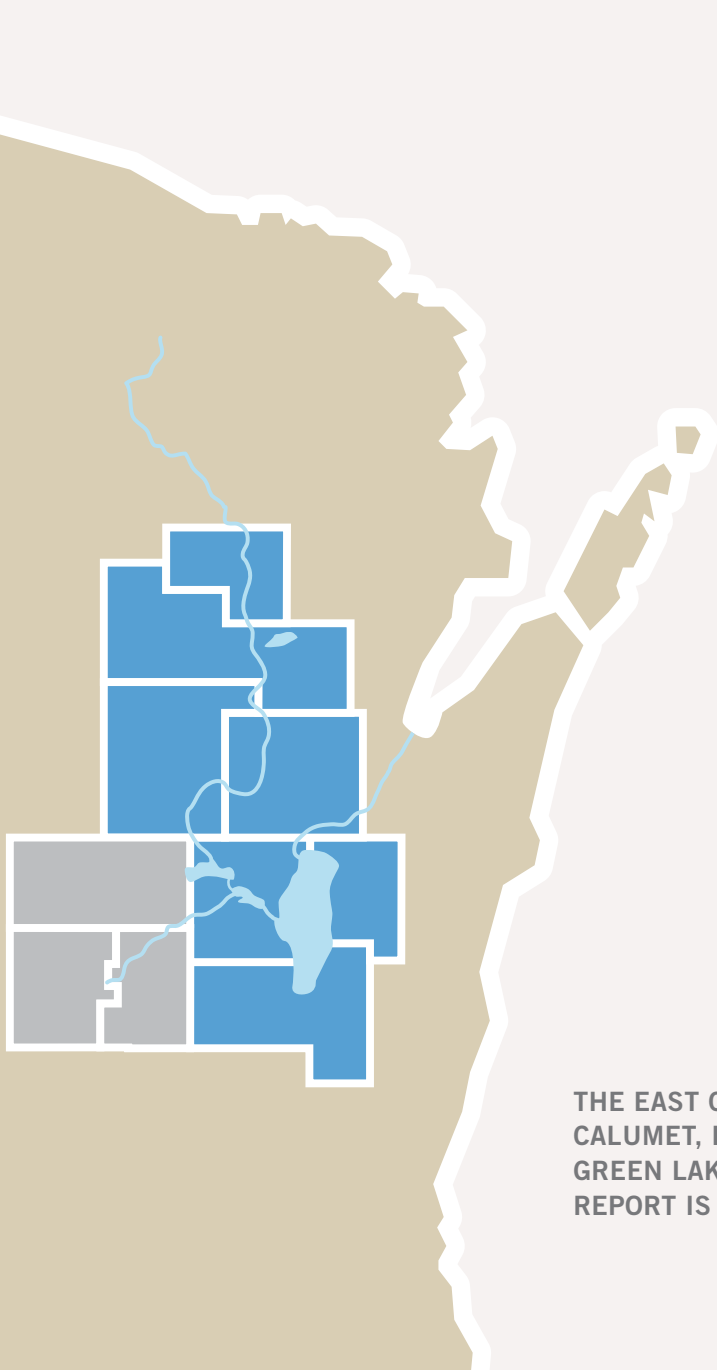
-ECWRPC Mission

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 258,636, the Oshkosh MPO population was 79,180, and the Fond du Lac MPO population was 64,122. The total population of the East Central Wisconsin Region was 615,145 in 2023.

Boundary Changes & Updates

ECWRPC staff are working with local communities to update the urban area boundaries for the three MPOs. The boundaries are updated every 10 years to reflect population and land use changes. The new boundaries will require approval from WisDOT before adoption. Then, they will be used to update the functional classification system for the MPOs.

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.

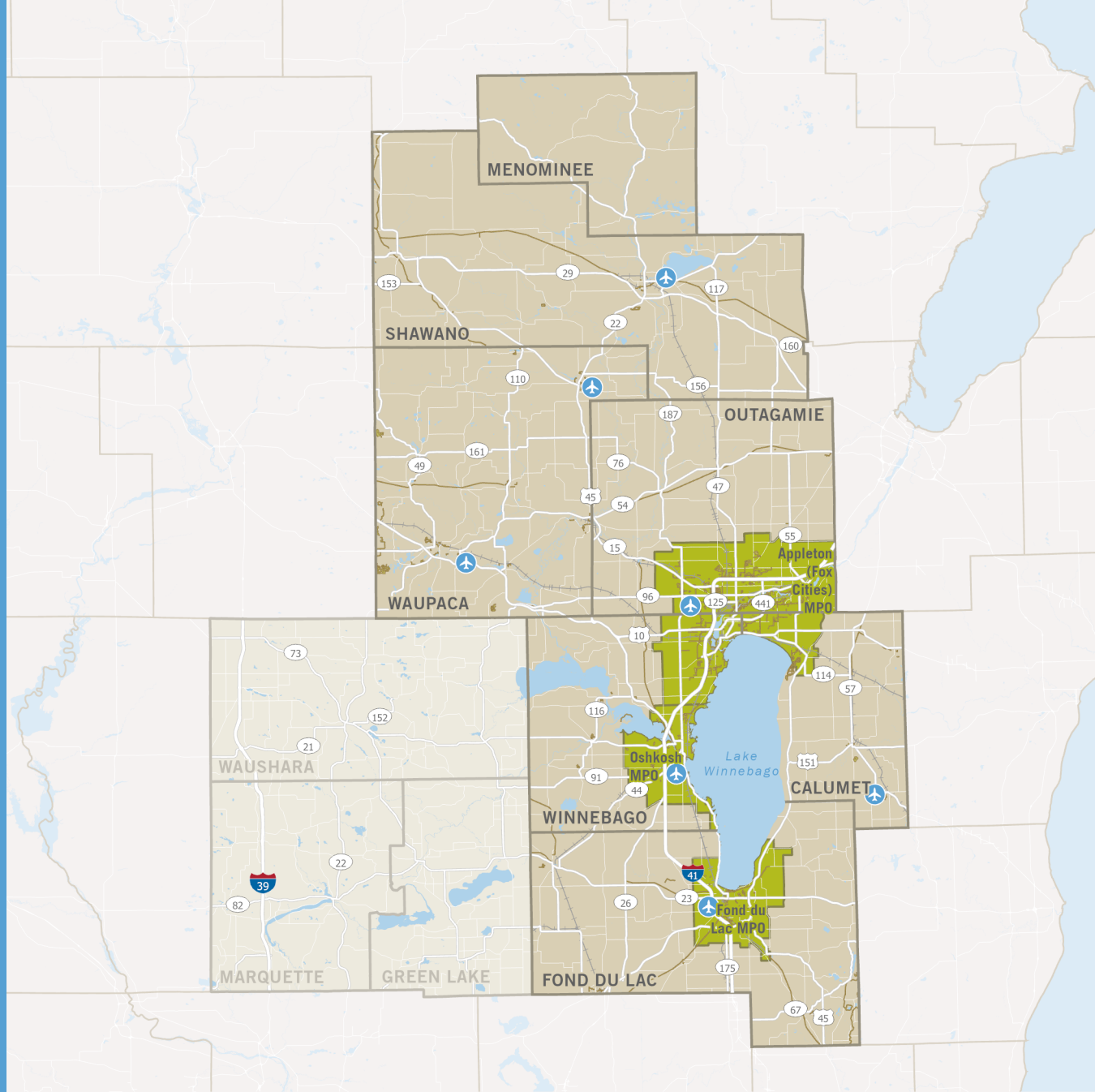
ENVIRONMENTAL SUSTAINABILITY

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



Base data provided by Regional Counties 2023.
MPO data provided by WisDOT/ECWRPC 2010.

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Airport

Trail

Railroad

MPO Planning Area

ECWRPC Member County

ECWRPC Non-Member County

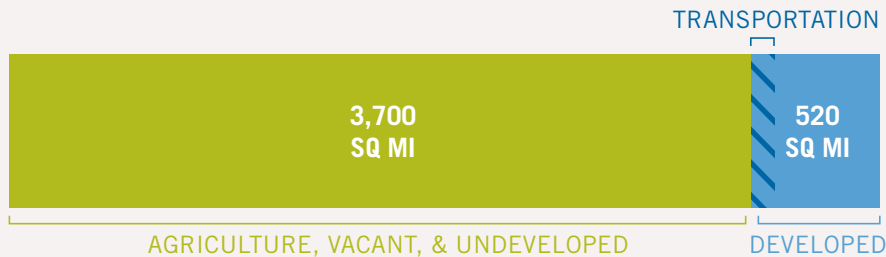


OVERVIEW OF THE REGION

LAND USE & POPULATION EAST CENTRAL WI

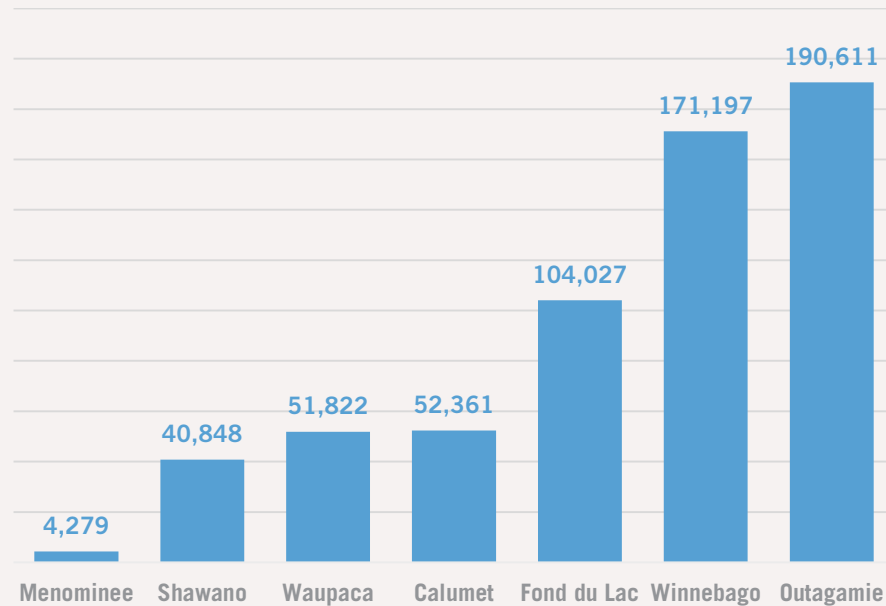
ECWRPC serves seven counties with a total population of 615,145. The urbanized areas of Oshkosh, Fond du Lac, and the Fox Cities extend around Lake Winnebago, while rural communities are located throughout all seven counties. The people who live in East Central Wisconsin enjoy six different ecological landscapes that give the region its diverse beauty and natural resources.

Existing Land Use



Source: ECWRPC 2021

Population by County

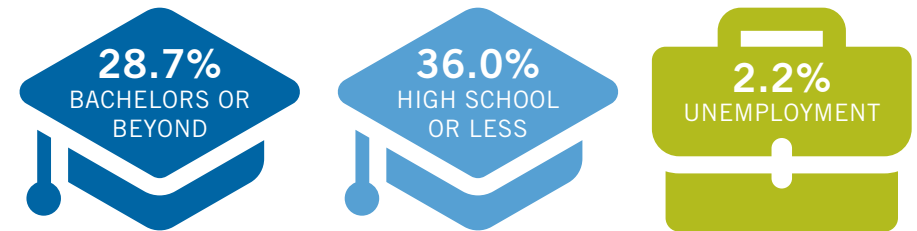


Source: ESRI Business Analyst 2023

EMPLOYMENT EAST CENTRAL WI

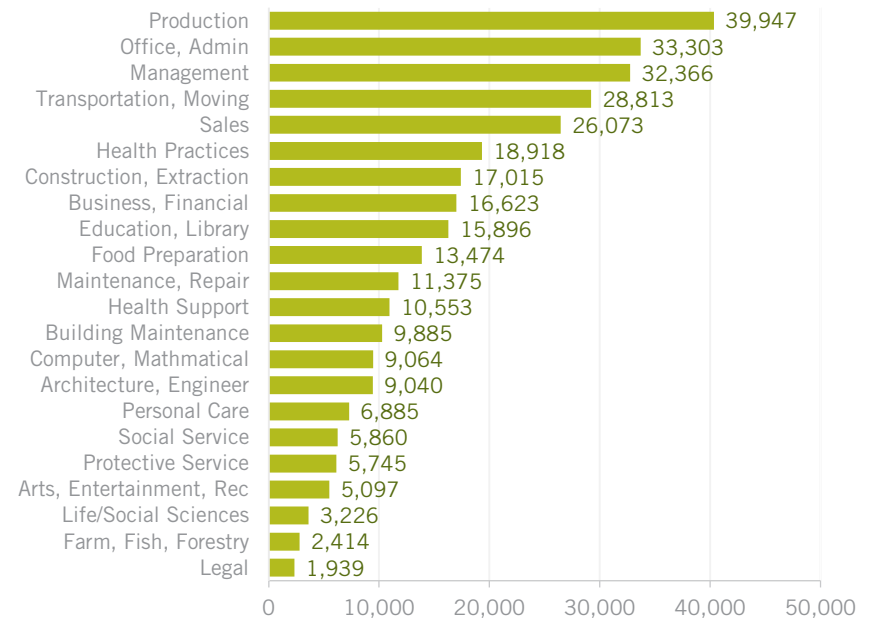
The vibrant economy of East Central Wisconsin is made up of approximately 21,826 businesses with 326,174 total employees. Regionally, 39,947 people are employed in production jobs, making it the most popular occupation at 12% of the area's workforce. White collar laborers constitute 58% of the total workforce, while 31% of workers are blue collar and 11% are service workers.

Employment Quick Facts



Source: ESRI Business Analyst 20213

Number of Employees by Occupation



Source: ESRI Business Analyst 2023

HOUSING & INCOME EAST CENTRAL WI

East Central Wisconsin features 255,920 households, with an average of 2.37 people per household. Of the 275,132 housing units in the region, a third were built before 1960. The median per capita income in East Central Wisconsin is \$38,772. 31% of households receive social security income, 8% receive SNAP benefits, and 2% receive public assistance income.

Housing & Income Quick Facts



255,920
TOTAL
HOUSEHOLDS



\$231,581
MEDIAN HOME
VALUE



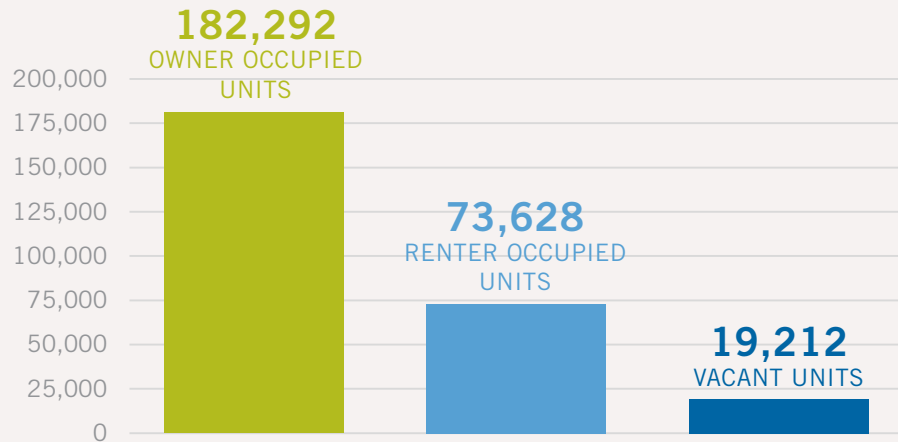
\$70,629
MEDIAN
HOUSEHOLD
INCOME



\$181,779
MEDIAN NET
WORTH

Source: ESRI Business Analyst 2023

Housing Occupancy Estimates

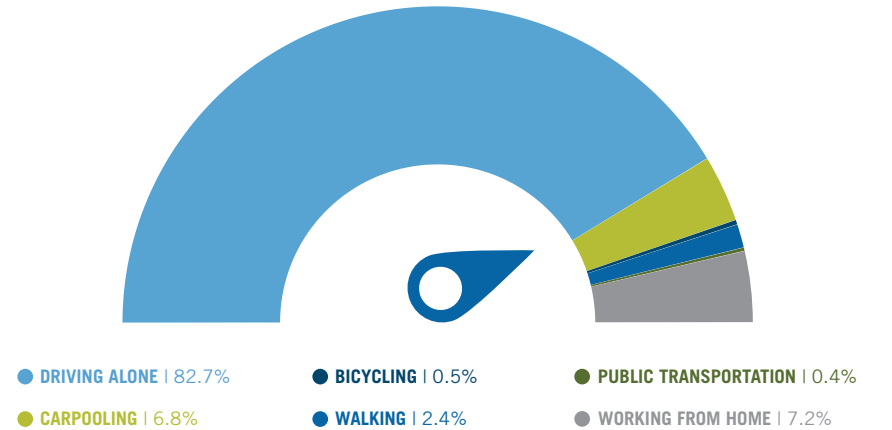


Source: ESRI Business Analyst 2023

COMMUTING EAST CENTRAL WI

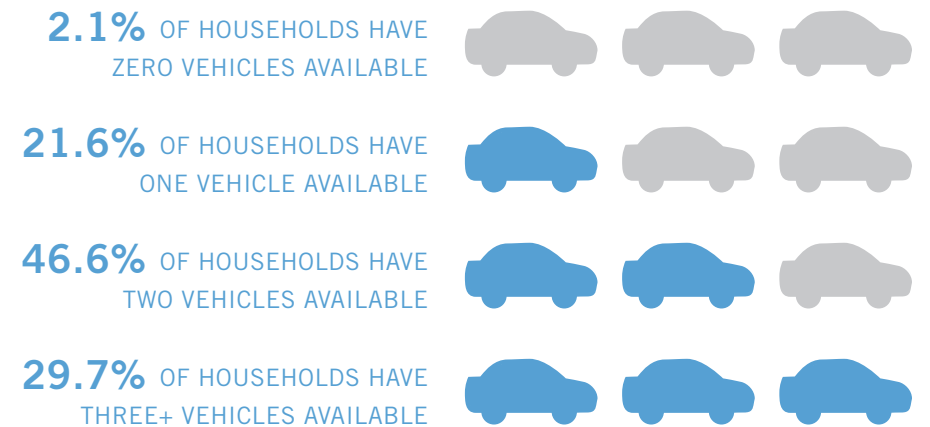
Approximately 292,255 people commute to work in East Central Wisconsin, and 7.2% of all workers work from home. 37% of people commuted to work in less than 15 minutes, 39% commuted in 15-30 minutes, and the remaining 24% commuted in over 30 minutes. The region is highly dependent on automobile transportation, as 83% of workers rely on a personal vehicle to drive to work.

Means of Transportation to Work



Source: ESRI Business Analyst 2023

Vehicle Availability



Source: ESRI Business Analyst 2023









REGIONAL PERFORMANCE MEASURES

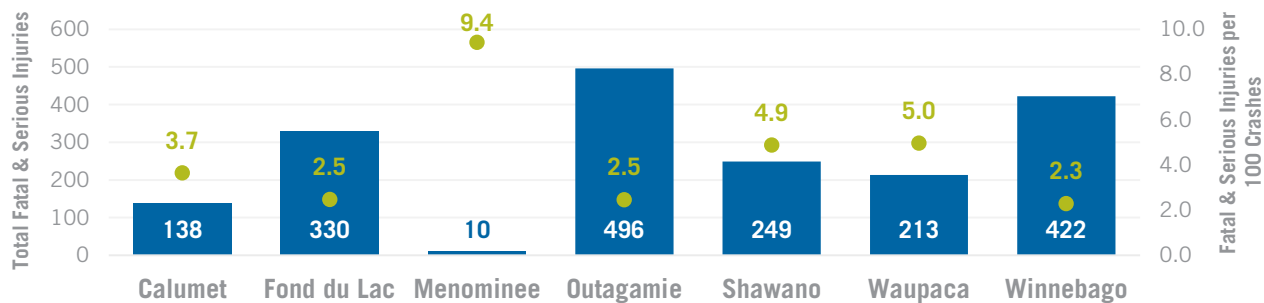
ROADWAYS EAST CENTRAL WI

From interstates to local roads, principal arterials to minor collectors, East Central Wisconsin has a vast and varied network of roads. With over 11,300 miles of roadway, the region is crisscrossed by asphalt, concrete, and steel to deliver products and connect people to essential resources. 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	 ELECTRIC VEHICLE CHARGING STATIONS	 TOTAL ANNUAL MOTORIST CRASHES	 ANNUAL MOTORIST SERIOUS/FATAL INJURIES	 ANNUAL MOTORIST FATAL INJURIES
Calumet	66.1%	27.4%	2	739	1	1
Fond du Lac	70.0%	22.6%	10	2,770	38	14
Menominee	44.4%	44.4%	0	106	1	3
Outagamie	68.4%	26.9%	21	4,069	66	7
Shawano	61.3%	32.3%	4	681	32	4
Waupaca	76.7%	13.2%	2	201	5	1
Winnebago	72.0%	15.5%	9	3,834	56	10
Region	65.6%	26.0%	48	12,400	199	40

Fatal & Serious Injuries per 100 Crashes: All Modes (2019-2023)



■ Total Fatal & Serious Injuries (2019-2023) ● Fatal & Serious Injuries per 100 Crashes (2019-2023)

Crash, bridge, PASER, functional class data: WisDOT 2023.

2023 CRASH FACTORS ALL MODES IN EAST CENTRAL WISCONSIN



INTERSECTION
3,812 crashes



SPEED
1,665 crashes



ALCOHOL/DRUGS
808 crashes

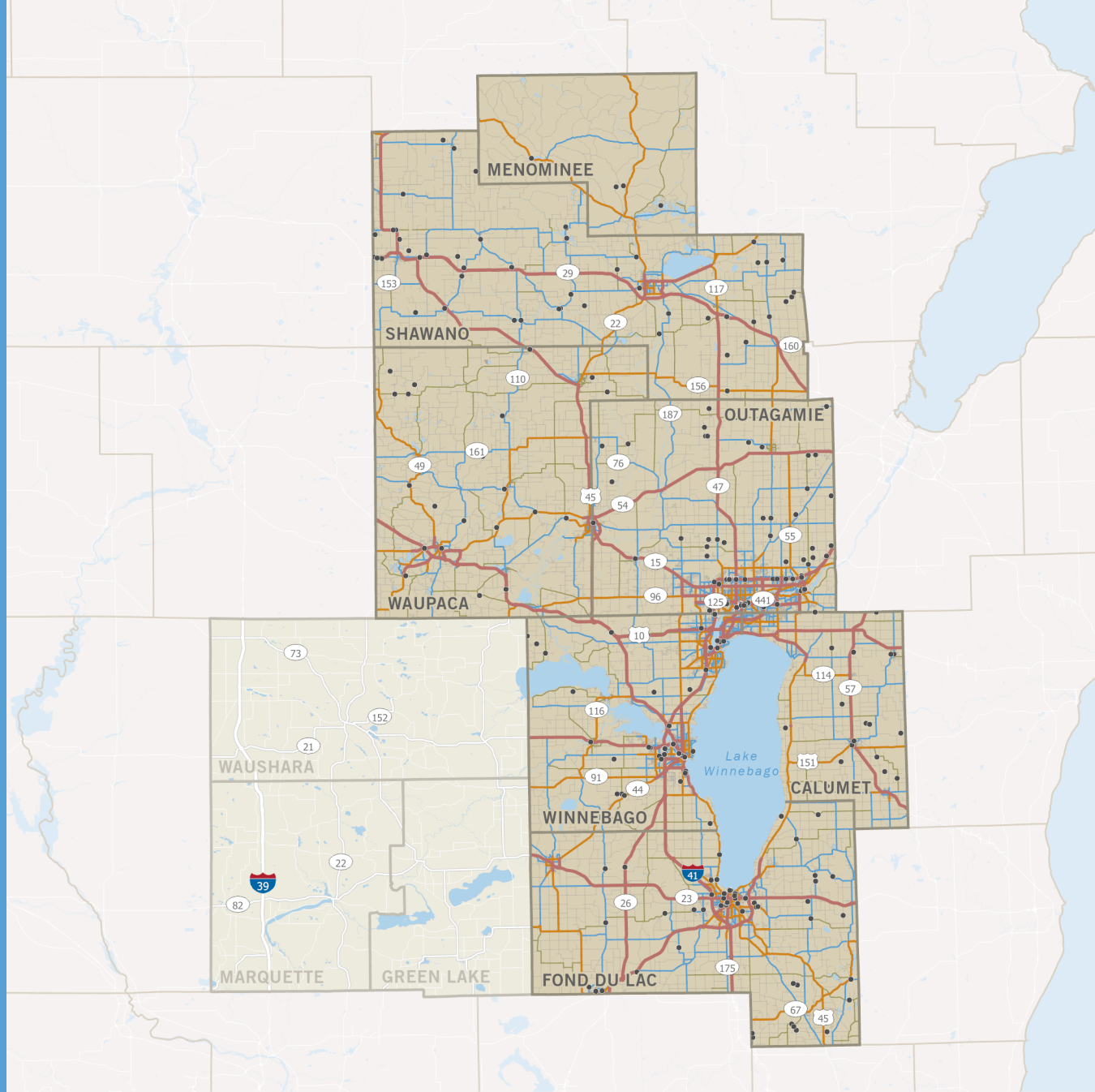


INATTENTIVE DRIVING
1,668 crashes



CONSTRUCTION ZONE
116 crashes

ROADWAYS FUNCTIONAL CLASSIFICATION & BRIDGE FUNDING



Base data provided by Regional Counties 2023.
Bridge data and PASER data provided by WisDOT 2022, 2023.

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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

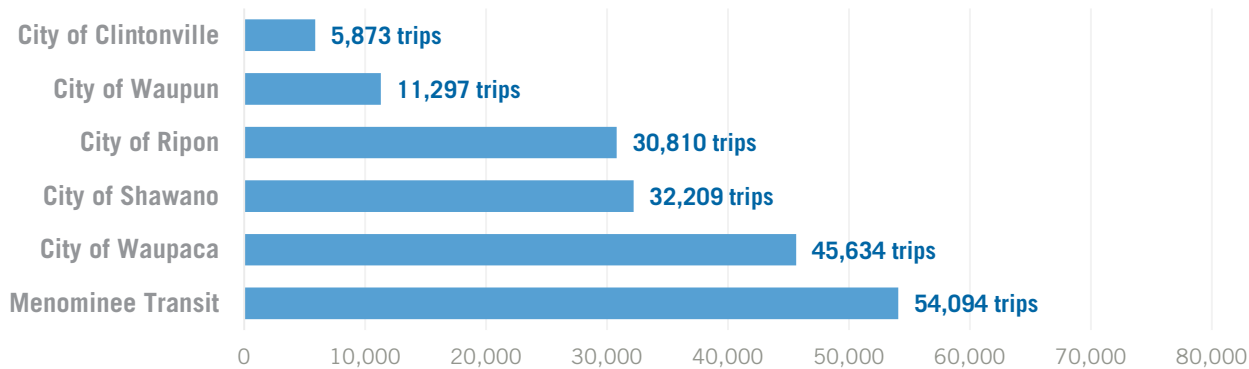
TRANSIT EAST CENTRAL WI

The four fixed-route public transit systems in East Central Wisconsin carry tens of thousands of riders on hundreds of thousands of trips each year. In addition, all seven counties in the region work with a private or public paratransit service to provide transportation for residents in need. Increased transit ridership builds community connections, reduces traffic congestion, increases economic opportunity, and lowers carbon emissions.

Transit Performance Measures

	 ANNUAL UNLINKED TRIPS: BUS	 ANNUAL UNLINKED TRIPS: DEMAND RESPONSE	 OPERATING EXPENSES PER UNLINKED TRIP	 TOTAL BUSES OPERATED BY SERVICER AT CAPACITY	 POPULATION IN THE 10 MIN. TRANSIT WALKSHED	 HOUSEHOLDS IN THE 10 MIN. TRANSIT WALKSHED
Fond du Lac Transit	105,919	14,606	\$16.42	8	41,844	18,184
GO Transit	571,151	48,179	\$7.16	11	60,740	26,455
Menominee Transit	43,131	54,094	\$45.35	12	11,529	4,679
Valley Transit	647,941	89,969	\$9.96	21	156,691	66,939

Rural Transit Annual Unlinked Trips: Demand Response (2023)



Unlinked trips, revenue data: FTA 2022. Population, households data: ESRI Business Analyst 2023.

PUBLIC TRANSIT SERVICES IN EAST CENTRAL WISCONSIN

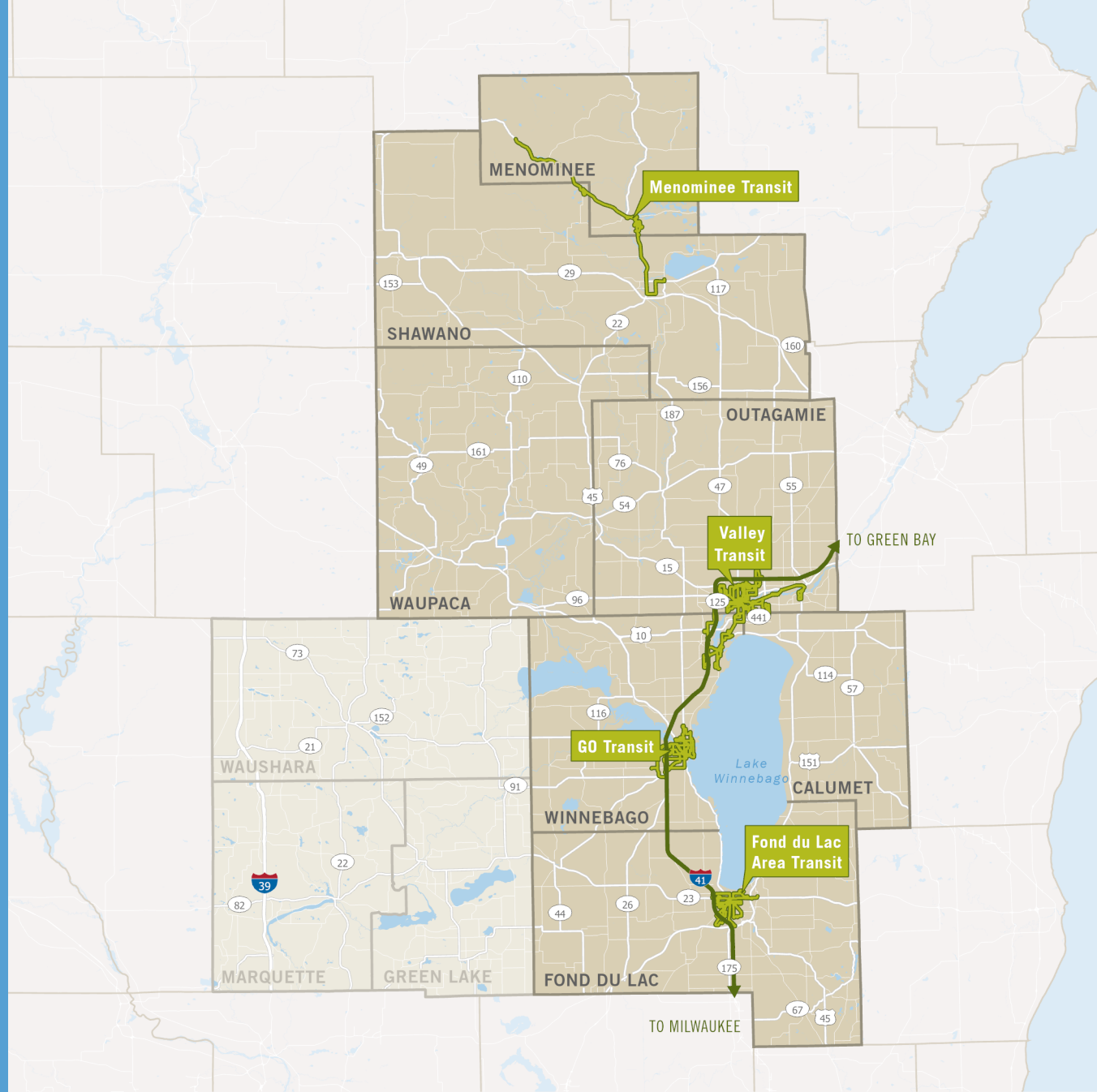
FOND DU LAC TRANSIT CITY OF FOND DU LAC

GO TRANSIT CITY OF OSHKOSH

MENOMINEE TRANSIT MENOMINEE COUNTY

VALLEY TRANSIT FOX CITIES AREA

TRANSIT FIXED TRANSIT & AMTRAK BUS SERVICES



Base data provided by Regional Counties 2023.
Transit data provided by transit agencies 2023.

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Fixed Transit Route

Amtrak Thruway Bus Service Route







ECWRPC Member County

ECWRPC Non-Member County

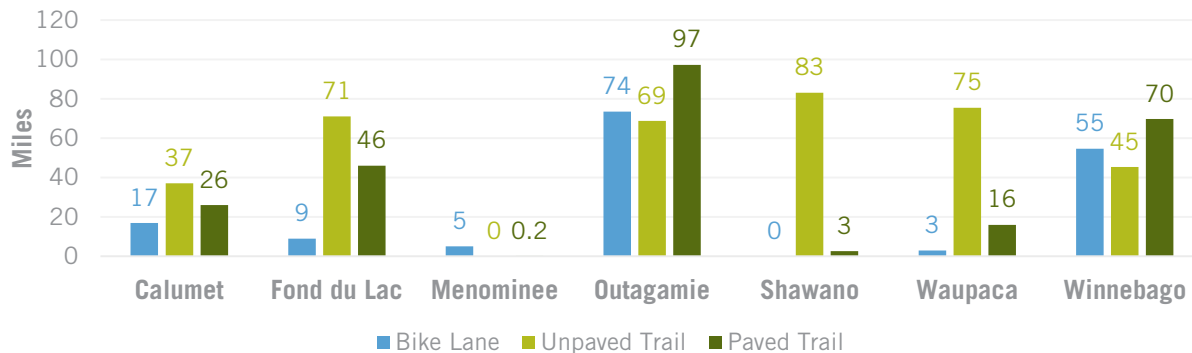
BICYCLE & PEDESTRIAN NETWORK EAST CENTRAL WI

East Central Wisconsin bicyclists and pedestrians enjoy 2,904 miles of bike lane, trail, and sidewalk. Both rural and urban communities recognize the importance of active transportation and continue to expand infrastructure and recreational opportunities. Notably, in 2023, the Ice Age National Scenic Trail in Wisconsin was officially recognized as part of the National Parks Service. Portions of the 1,200-mile trail meander through Fond du Lac and Waupaca Counties.

Bicycle & Pedestrian Performance Measures

	 TOTAL MILES OF BIKE & PED FACILITIES	 PEOPLE LIVE 1/2 MI FROM A TRAIL OR BIKE LANE	 TRAIL COUNTS CONDUCTED IN 2023	 TOTAL ANNUAL BICYCLIST CRASHES	 TOTAL ANNUAL PEDESTRIAN CRASHES	 ANNUAL BIKE & PED FATAL/SERIOUS INJURIES
Calumet	256.1	39,972	2	7	9	6
Fond du Lac	531.4	64,888	12	24	16	6
Menominee	17.2	23	0	0	0	0
Outagamie	978.3	151,551	2	36	29	11
Shawano	152.7	13,837	0	7	2	1
Waupaca	201.6	23,679	0	2	2	1
Winnebago	775.8	136,989	2	45	37	14
Region	2,913.1	430,939	18	121	95	39

Trail and Bike Lane Mileage by County



Crash data: WisDOT 2023. Bike/ped facility data: ECWRPC 2023. Complete Streets data: Bike Fed 2023.

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

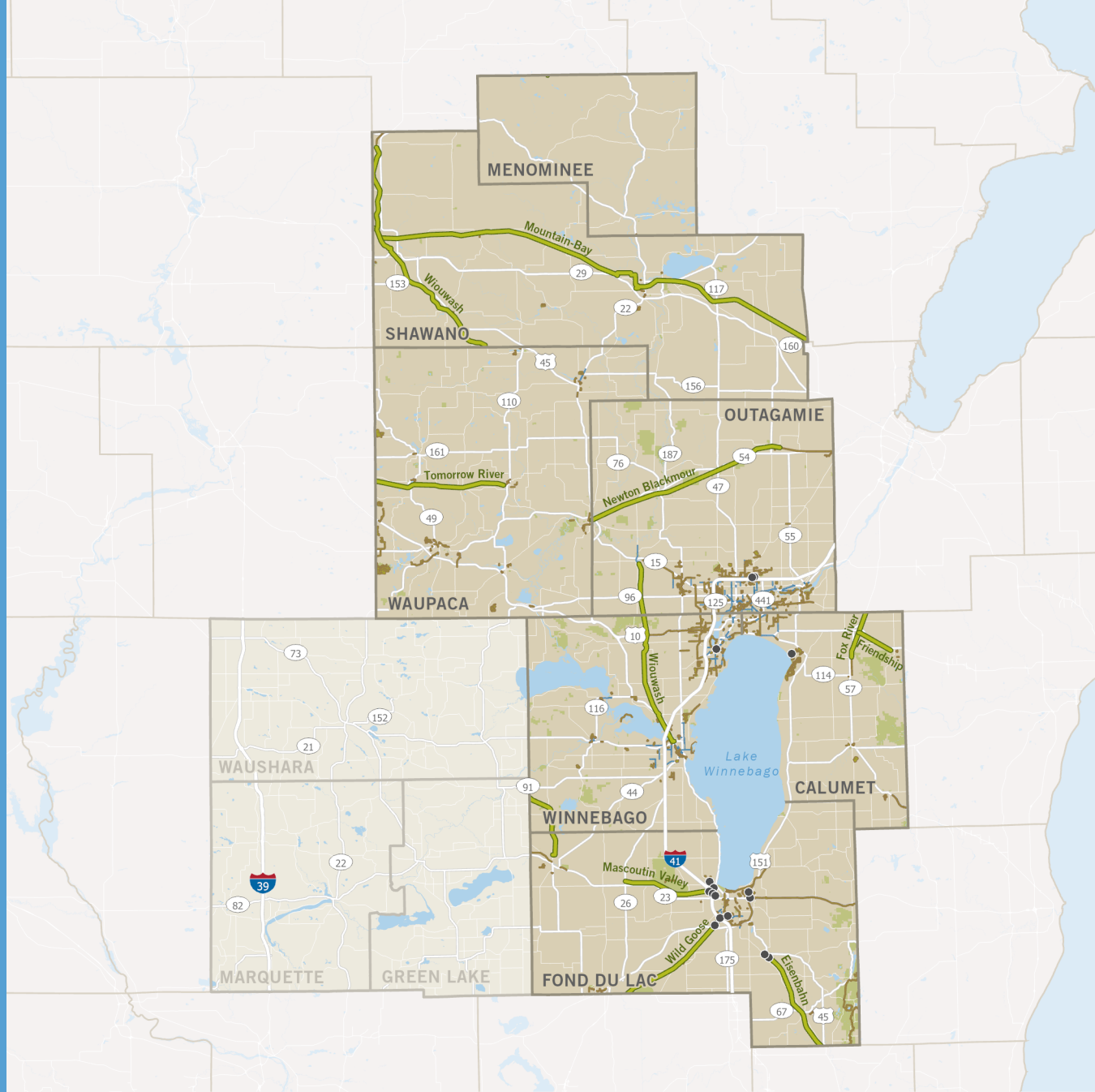


SPACE FOR COMFORT & CULTURE

Street furniture, parks, public art, lighting

BICYCLE & PEDESTRIAN NETWORK

TRAILS & TRAIL COUNTERS



Base data provided by Regional Counties 2023.
Bike ped data provided by ECWRPC 2023.

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- 2023 Trail Counter Location
- Bike Lane
- Local Trail
- State Trail

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

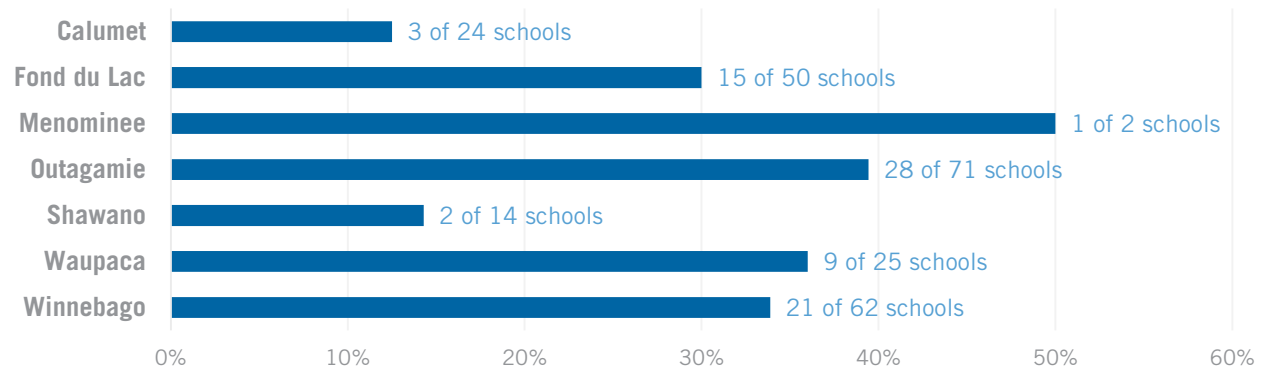
SAFE ROUTES TO SCHOOL EAST CENTRAL WI

Walking and biking to school are healthy, affordable, and empowering behaviors that contribute to student success and provide a foundation for lifelong healthful habits. The Regional Safe Routes to School Program collaborates with schools to generate interest in walking and biking to school. As more students are driven to school, congestion and traffic safety concerns in school zones increase. In 2023, 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	3	1	3	4	0	3
Fond du Lac	15	12	11	7	1	12
Menominee	1	1	1	0	0	1
Outagamie	28	24	23	5	5	8
Shawano	2	4	4	0	0	3
Waupaca	9	9	7	3	0	8
Winnebago	21	17	15	5	2	7
Region	79	68	64	24	6	42

K-8 Schools Participating in ECWRPC SRTS Program by County (2023)



SRTS data: ECWRPC 2023.

GUIDING PRINCIPLES THE SIX E'S



EQUITY



ENGAGEMENT



EVALUATION



ENGINEERING



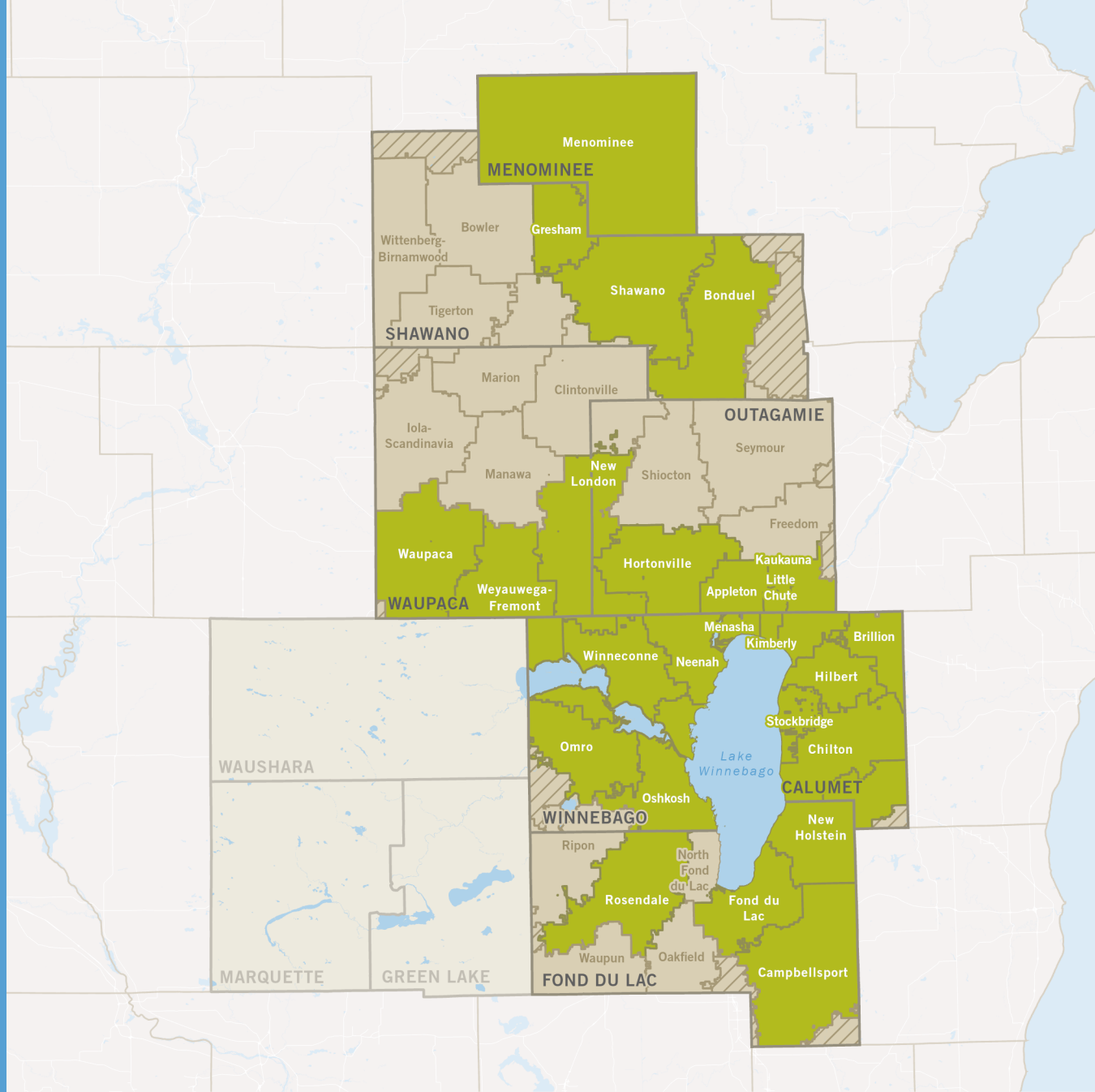
ENCOURAGEMENT



EDUCATION

SAFE ROUTES TO SCHOOL

PARTICIPATING SCHOOL DISTRICTS



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School Districts

SRTS Participation

Not Participating

Participating

No Schools in Region







ECWRPC Member County

ECWRPC Non-Member County

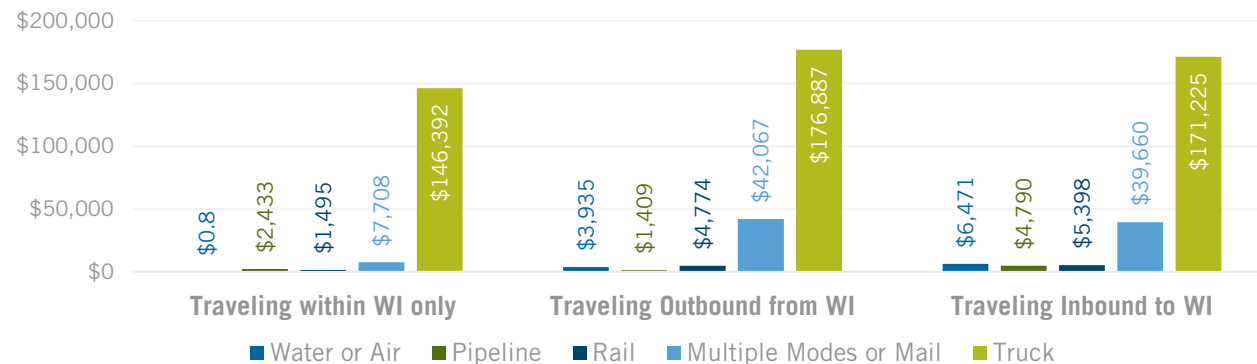
FREIGHT & AIRPORTS EAST CENTRAL WI

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, the region's largest airport, carries passengers and freight year-round. Fond du Lac, Oshkosh, Shawano, Clintonville, Waupaca, and New Holstein host mid-sized and small airfields as well.

Freight & Airport Performance Measures

	 TOTAL NUMBER OF AIRPORTS	 MILES OF TRUCKING ROUTES	 CRASHES WITH HEAVY-DUTY TRUCKS & AG VEHICLES	 MILES OF MAIN SUB-NETWORK RAILROAD	 MILES OF SPUR OR OTHER RAILROAD	 ANNUAL CRASHES AT RAILROAD CROSSINGS
Calumet	1	196.7	135	38.3	3.2	0
Fond du Lac	1	460.0	611	53.5	30.8	0
Menominee	0	81.5	7	0.0	0.0	0
Outagamie	1	407.9	819	66.3	33.2	2
Shawano	1	381.8	199	14.8	12.2	0
Waupaca	2	373.4	244	37.8	25.4	0
Winnebago	1	352.0	811	59.6	34.2	1
Region	7	2,253.3	2,826	270.3	139.0	3

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



Airport data: FAA 2023. Rail Data: BTS 2023. Freight data: Freight Analysis Framework 2023 projections. Crash data: WisDOT 2023.

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%

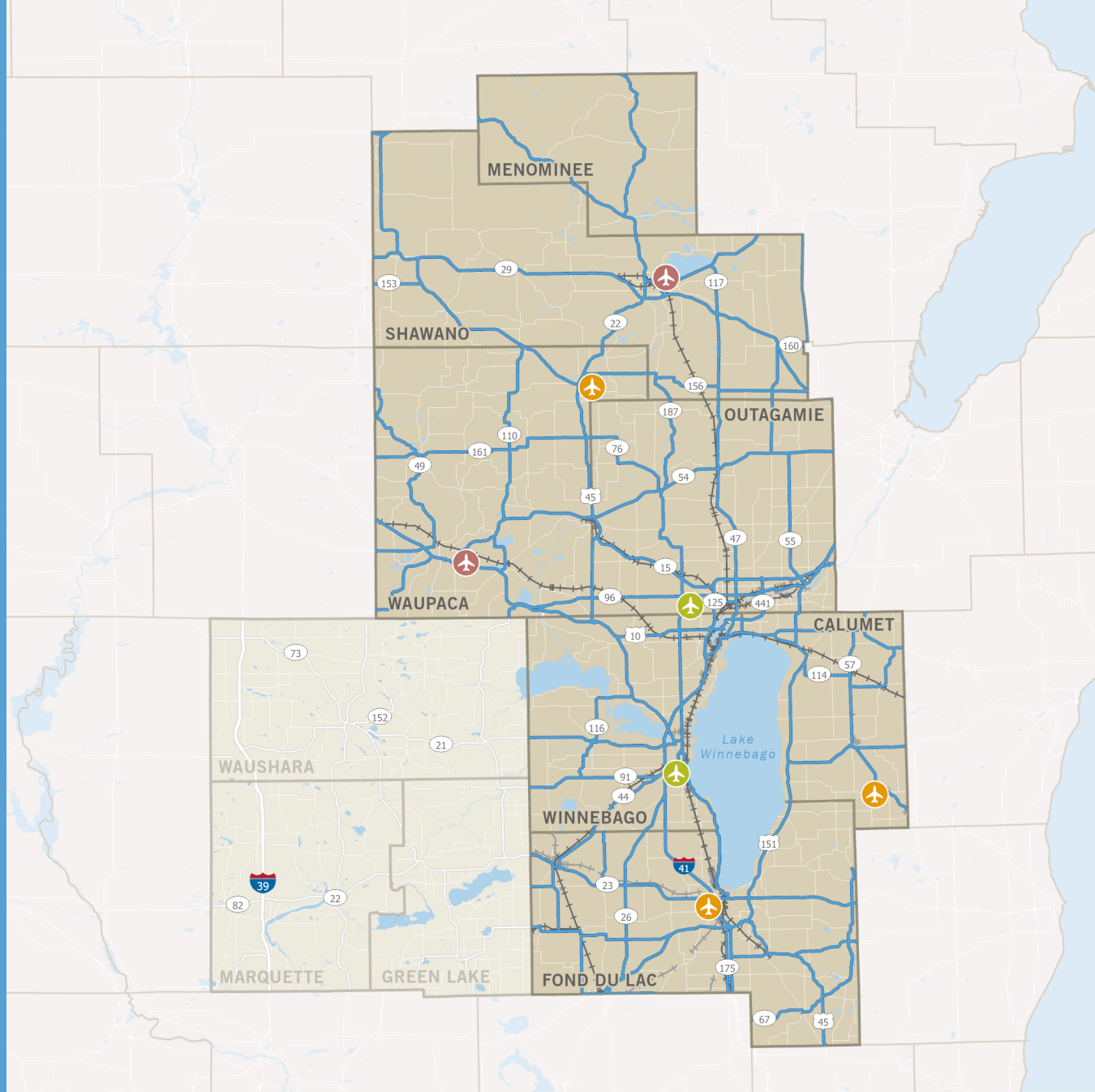
TOTAL SHIPMENTS BY WEIGHT

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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MPO data provided by WisDOT/ECWRPC 2010.

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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.

