

## RAIL FATALITIES

9  
2013 2003-2013 -40.0%

## TRANSIT FATALITIES

4  
2013 2003-2013 100.0%

## RECREATIONAL BOAT FATALITIES

21  
2013 2003-2013 -27.6%

## HIGHWAY FATALITIES

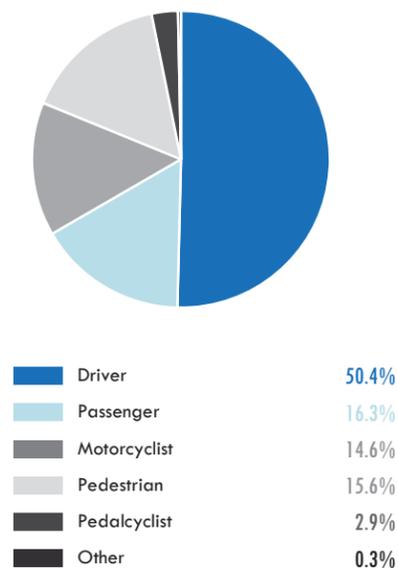
947  
2013 2003-2013 -26.2%

## HIGHWAY FATALITY RATE

Fatalities per 100 million vehicle miles traveled, 2013

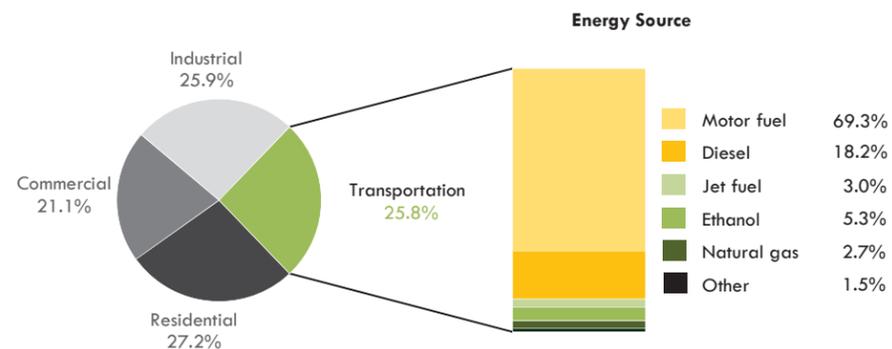


## HIGHWAY FATALITIES BY PERSON



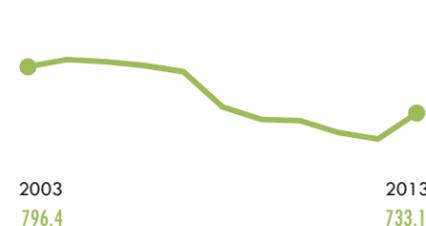
## ENERGY USE BY SECTOR

Percent of Btu consumed, 2013



## TRANSPORTATION ENERGY USE

Trillion Btu consumed, 2003-2013



## TRANSPORTATION EMISSIONS

Million metric tons of CO<sub>2</sub>, 2003-2013



## TRANSPORTATION ENERGY USE PER CAPITA

Million Btu per capita, 2013



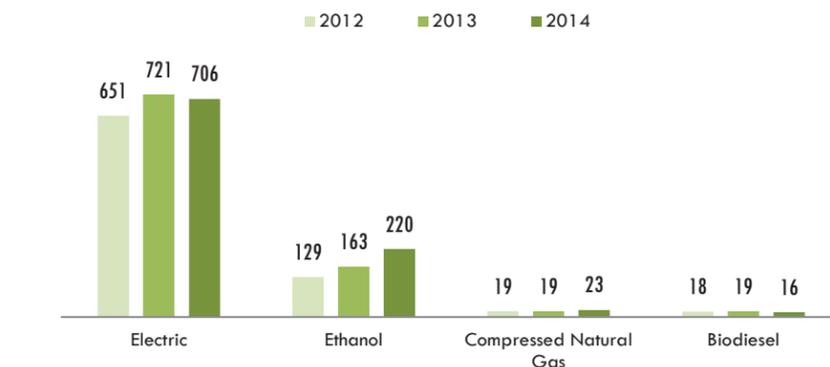
## MOTOR FUEL USE PER CAPITA

Gallons per capita, 2013



## ALTERNATIVE FUEL STATIONS

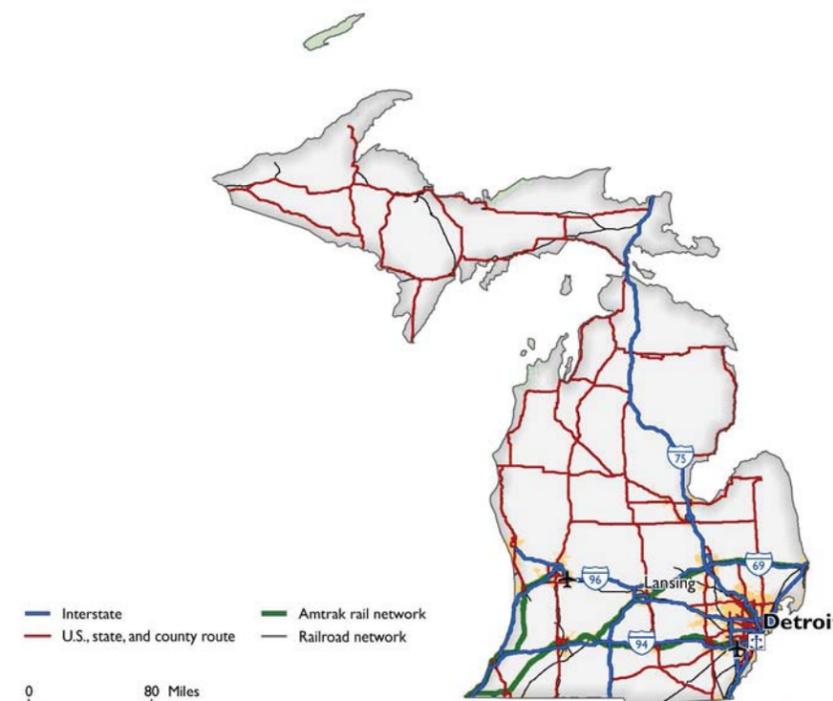
Number of stations, 2012-2014



# MICHIGAN

## TRANSPORTATION BY THE NUMBERS

## TRANSPORTATION INFRASTRUCTURE



## MAJOR AIRPORTS

20

Includes Federal Aviation Administration Part-139 public use airports.

## MAJOR WATER PORTS

13

- Alpena
- Calcite
- Detroit
- Drummond Island
- Escanaba
- Marquette
- Monroe
- Muskegon
- Port Dolomite
- Port Inland
- Presque Isle
- St. Clair
- Stoneport

## MILES OF PUBLIC ROAD

122,141

Roads with acceptable pavement ride quality based on International Roughness Index, 2013:

Michigan	88.9%
United States	80.4%

## BRIDGES

11,064

Bridges classified as functionally obsolete, 2013:

Michigan	15.9%
United States	13.7%

Bridges classified as structurally deficient, 2013:

Michigan	11.7%
United States	10.1%

## MILES OF FREIGHT RAILROAD

3,542

## NUMBER OF MPOs

13

## BORDER PORTS OF ENTRY

3

- Detroit
- Port Huron
- Sault Ste. Marie

Includes ports ranked in the top 150 ports by tonnage in 2013.

SOURCES: Infrastructure map, water ports, border ports—U.S. Department of Transportation, Bureau of Transportation Statistics, *National Transportation Atlas Database 2014*. Airports—U.S. Department of Transportation, Federal Aviation Administration, *Administrator's Fact Book*. Employment—U.S. Census Bureau, County Business Patterns. Passenger travel by trip purpose, average daily travel—U.S. Department of Transportation, National Household Travel Survey. Freight map and data—U.S. Department of Transportation, Federal Highway Administration, Freight Analysis Framework. State GDP—U.S. Department of Commerce, Bureau of Economic Analysis. Highway fatalities—U.S. Department of Transportation, National Highway Traffic Safety Administration. All other data—As cited in U.S. Department of Transportation, *State Transportation Statistics 2015*, available at [www.bts.gov](http://www.bts.gov).

## POPULATION

**9.9m** ▼ -1.4%  
2013 2003-2013

## EMPLOYMENT

**3.5m** ▼ -9.0%  
2013 2003-2013

## LICENSED DRIVERS

**7.0m** ▼ -1.1%  
2013 2003-2013

## REGISTERED VEHICLES

**8.2m** ▼ -4.1%  
2013 2003-2013

## TRANSIT RIDERSHIP

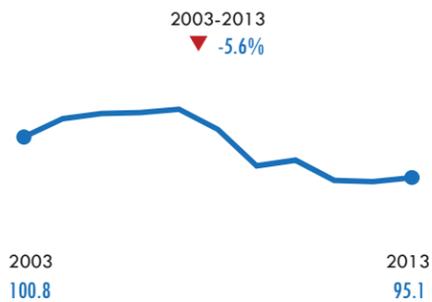
**98.7m** ▲ 19.6%  
2013 2003-2013

## AIR CARRIER ENPLANEMENTS

**18.0m** ▼ -1.7%  
2013 2003-2013

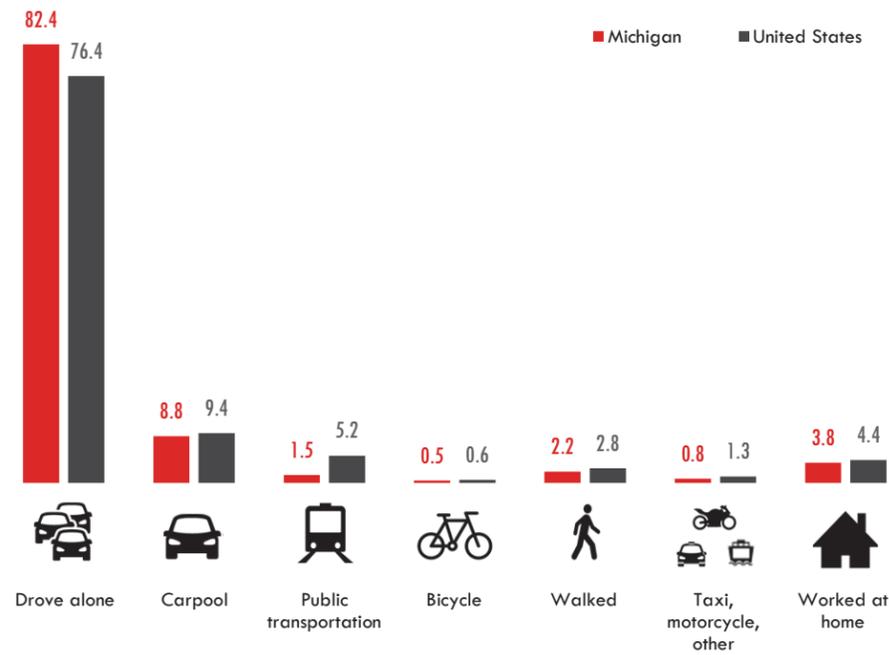
## HIGHWAY TRAVEL

Billions of vehicle miles traveled, 2003-2013



## HOW RESIDENTS GET TO WORK

Percentage of workers over age 16, 2013



## AVERAGE DAILY PERSON MILES

Miles per person per day, 2009



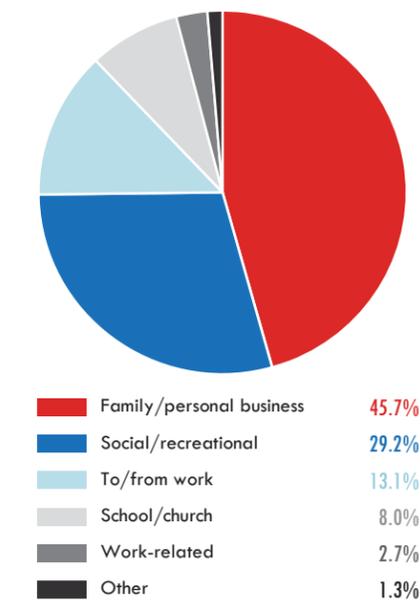
## AVERAGE DAILY PERSON TRIPS

Trips per person per day, 2009



## PASSENGER TRAVEL BY TRIP PURPOSE

Percentage of annual person trips, 2009



## TRANSPORTATION INDUSTRY JOBS

**100,454** ▲ 0.0%  
2013 2003-2013

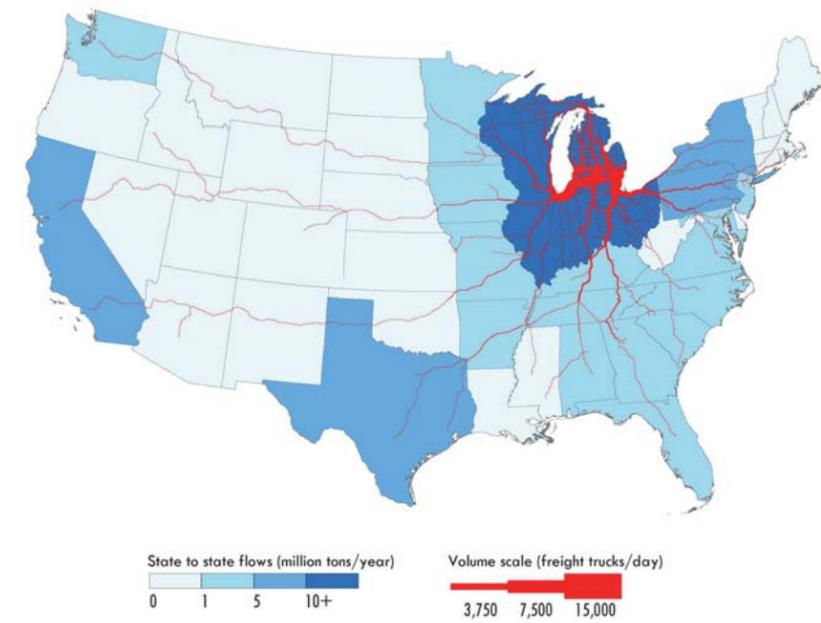
Truck transportation **42,509** ▲ 4.2%

Support activities for transportation **13,606** ▲ 16.7%

Air transportation **12,545** ▼ -20.4%

Couriers and messengers **10,797** ▼ -17.3%

## MAJOR TRUCK FREIGHT FLOWS TO, FROM, AND WITHIN MICHIGAN, 2010



## VALUE OF FREIGHT FLOW

**\$1.0t** ▲ 7.7%  
Current dollars, 2013 2007-2013

## TONS OF FREIGHT FLOW

**694.2m** ▲ 7.8%  
2013 2007-2013

## TON-MILES OF FREIGHT FLOW

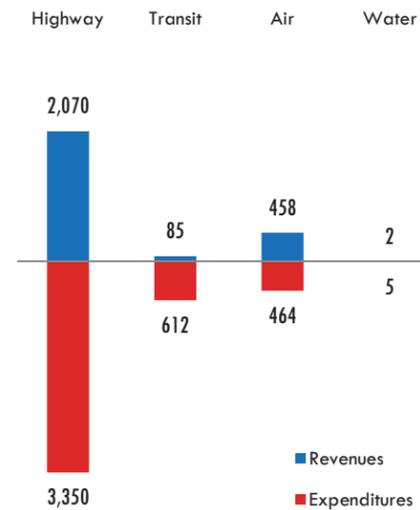
**287.9b** ▲ 7.2%  
2013 2007-2013

## STATE GROSS DOMESTIC PRODUCT

**\$434.7b** ▲ 1.3%  
Current dollars, 2013 2003-2013

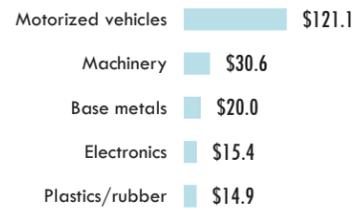
## STATE AND LOCAL GOVERNMENT TRANSPORTATION REVENUES AND EXPENDITURES

Millions of current dollars, 2012

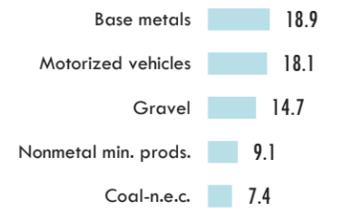


## TOP COMMODITIES SHIPPED FROM MICHIGAN

By value moved in billions of current dollars, 2013

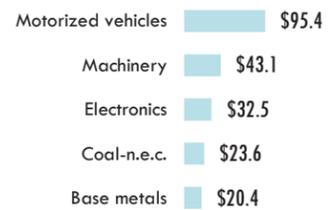


By weight moved in millions of tons, 2013

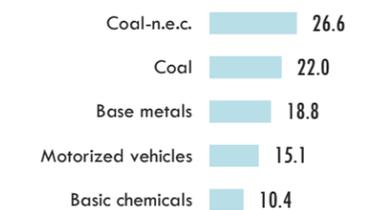


## TOP COMMODITIES SHIPPED TO MICHIGAN

By value moved in billions of current dollars, 2013

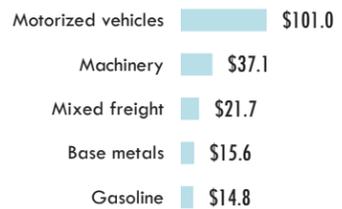


By weight moved in millions of tons, 2013



## TOP COMMODITIES SHIPPED WITHIN MICHIGAN

By value moved in billions of current dollars, 2013



By weight moved in millions of tons, 2013

