



US Army Corps  
of Engineers

U.S. ARMY CORPS OF ENGINEERS

Michigan

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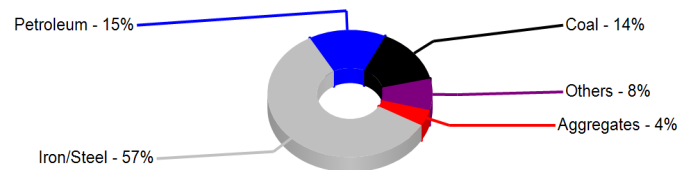


### 2016 State Quick Facts (Tons in Millions)

Tons Shipped -	23.7
Tons Received -	20.6
Tons Shipped Within State -	10.9
Total Commerical Docks -	117
Total Value (billions)-	\$3.70
Total Domestic Tons -	47.9
Total Import Tons -	4.0
Total Export Tons -	3.3
Total Tons -	55.1

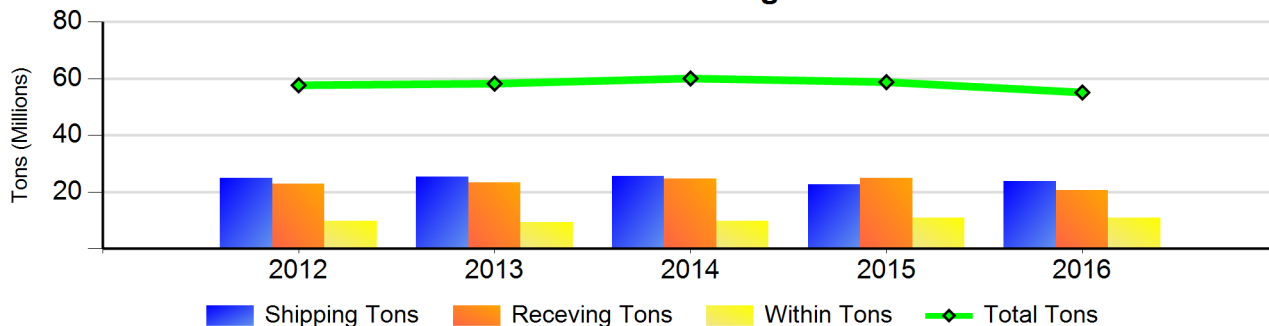
Source: Waterborne Commerce Statistics, Values estimated from 2012 NDSU Commodity Valuation Study, values indexed by CPI to 2016 price level (Commodity dollar values are not calculated for foreign movements)

### 2016 All Traffic Commodity Value Distribution



Source: Waterborne Commerce Statistics, Values estimated from 2012 NDSU Commodity Valuation Study, values indexed by CPI to 2016 price level. (Commodity dollar values are not calculated for foreign movements), Remaining 3% unable to release due to insufficient operators

### State Five Year Tonnage Trend



Source: USACE Waterborne Commerce Statistics

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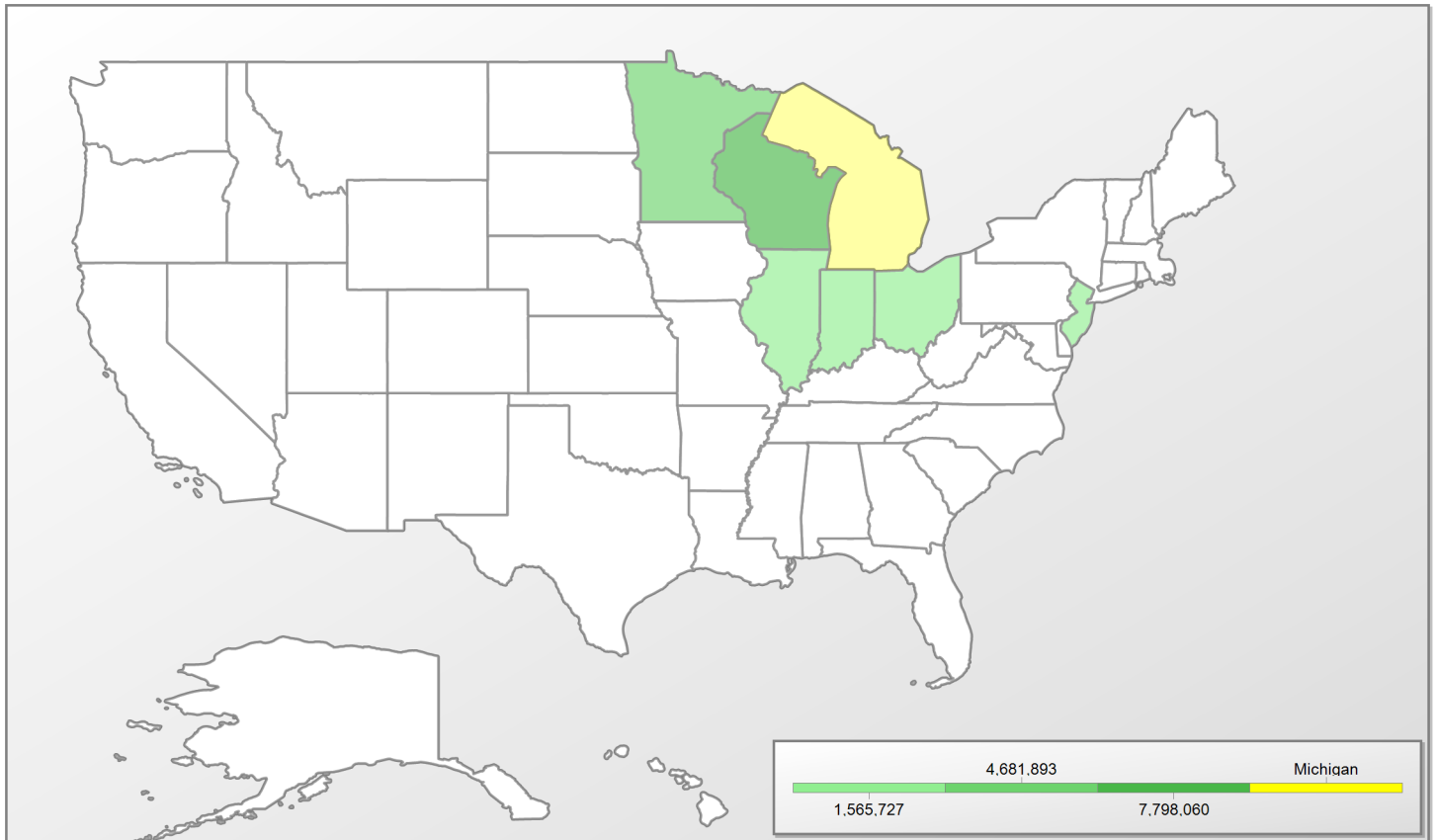
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## Michigan - Continued

2016 States Sending Commodities to Michigan



Source: USACE Waterborne Commerce Statistics

State Sending Tons	Total Tonnage Sent to Michigan	Top Commodity - % of Total Sent to Michigan
Wisconsin	9,528,155	Coal-98%
Canada	3,563,100	**
Minnesota	3,520,548	Iron/Steel-100%
Ohio	2,700,015	Coal-62%
Indiana	431,571	**
Illinois	412,504	Others-47%
Foreign	395,458	Iron/Steel-66%
New Jersey	7,644	**

\*\*Unknown and Not Elsewhere Classified Products

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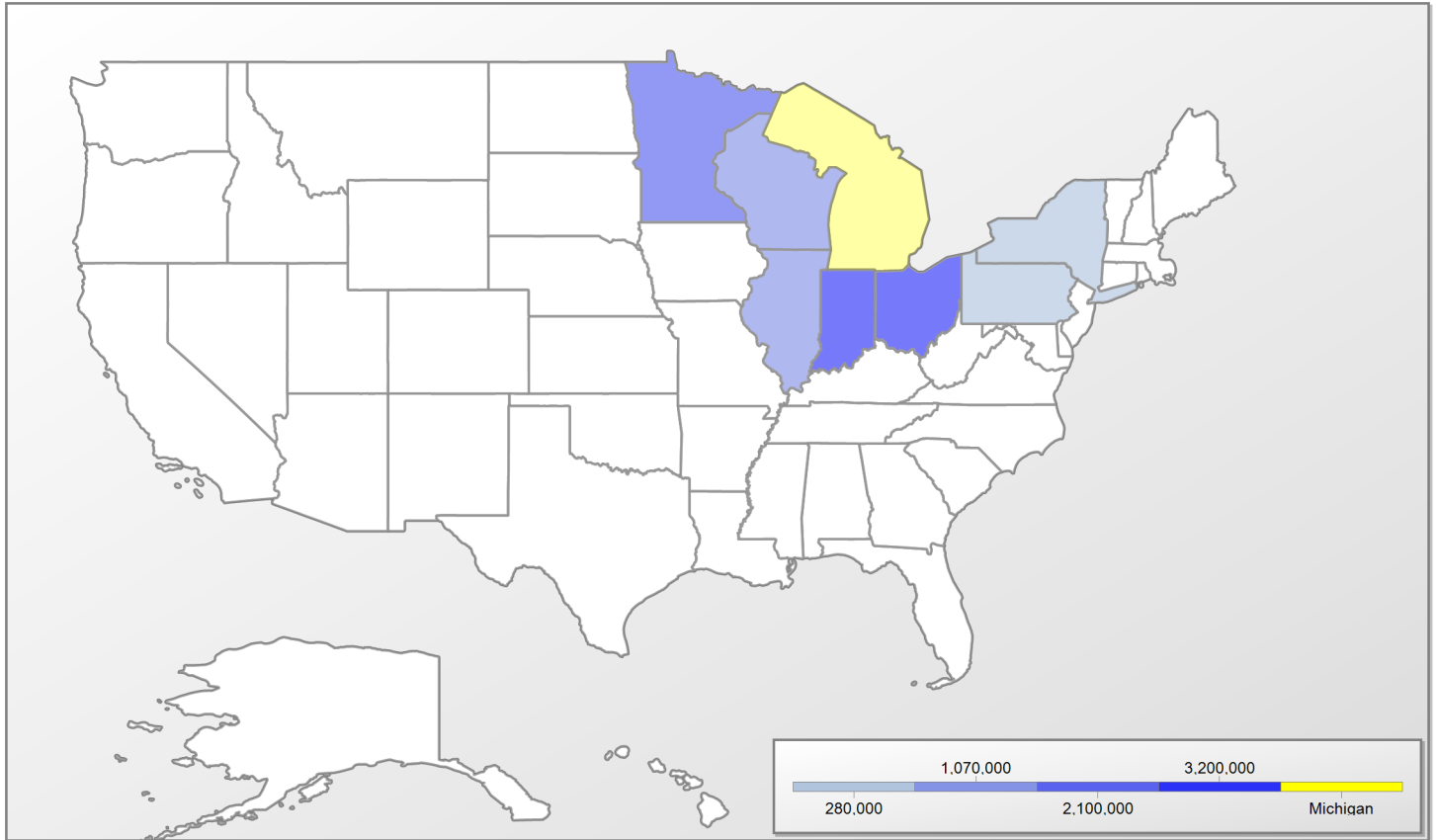
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## Michigan - Continued

2016 States Receiving Commodities From Michigan



Source: USACE Waterborne Commerce Statistics

State Receiving Tons	Total Tonnage Recieved from Michigan	Top Commodity - % of Total Recieved from Michigan
Ohio	7,831,764	Iron/Steel-49%
Indiana	6,357,611	Iron/Steel-51%
Canada	3,257,022	**
Wisconsin	2,917,230	Aggregates-55%
Minnesota	1,892,566	Aggregates-99%
Illinois	909,482	Others-64%
Pennsylvania	295,677	Aggregates-100%
New York	232,339	**

\*\*Unknown and Not Elsewhere Classified Products

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## Michigan - Continued

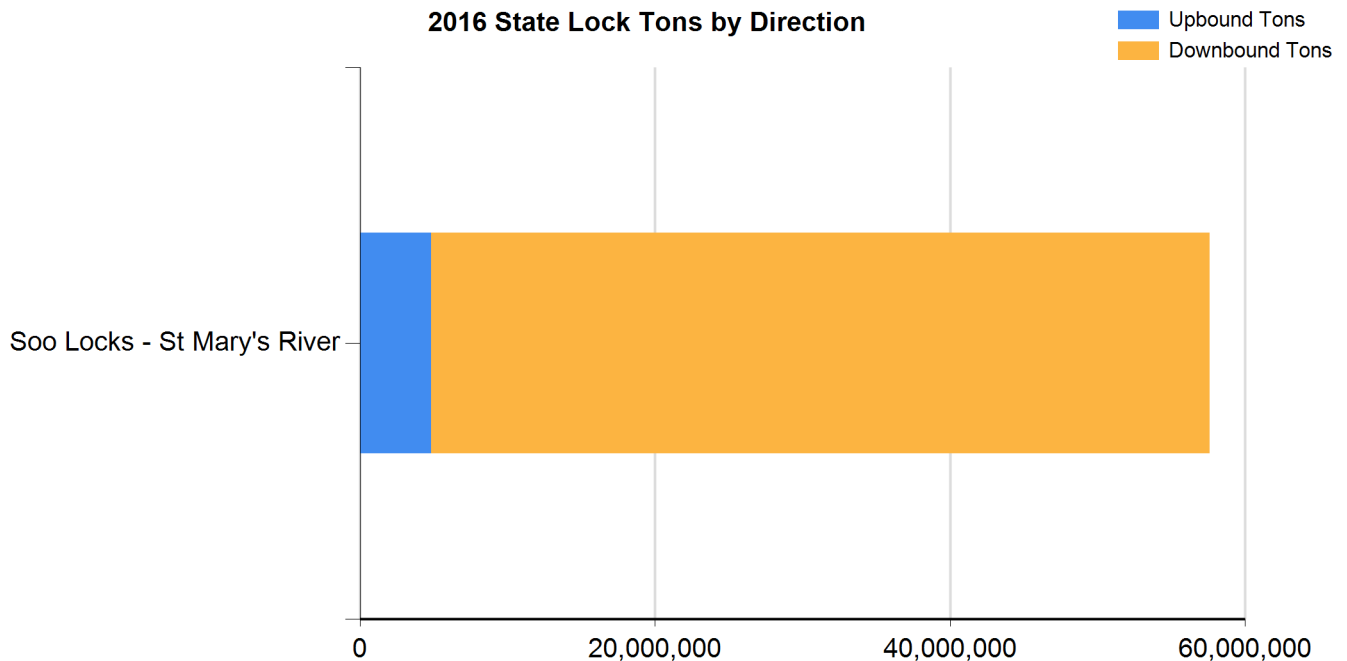
### Five Year Trend of Tonnage Shipped or Received in Michigan

Commodity Group	Avg Tonnage (Millions)	% of Total Tons (All Years)	Five Year Commodity Trend (Millions of Tons)				
Aggregates	20,913,953	36%	21.33 2012	21.27 2013	20.61 2014	21.49 2015	19.87 2016
Chemicals	356,352	**	** -2012	** -2013	** -2014	** -2015	** -2016
Coal	14,295,925	25%	14.37 2012	15.17 2013	15.04 2014	15.42 2015	11.47 2016
Crude Petroleum	0	**	** -2012	** -2013	** -2014	** -2015	** -2016
Grains	0	**	** -2012	** -2013	** -2014	** -2015	** -2016
Iron/Steel	14,996,837	26%	14.77 2012	14.98 2013	16.01 2014	13.20 2015	16.03 2016
Ores/Minerals	1,489,635	**	** -2012	** -2013	** -2014	** -2015	** -2016
Others	5,002,049	9%	4.69 2012	4.72 2013	4.86 2014	5.41 2015	5.34 2016
Petroleum	896,424	2%	0.71 2012	0.81 2013	1.02 2014	0.92 2015	1.03 2016

Source: USACE Waterborne Commerce Statistics

\*\* - Year = Insufficient Operators to Release Tonnage

### 2016 State Lock Tons by Direction



Source: USACE Waterborne Commerce Statistics

\*\* - Insufficient operators to release directional tonnage

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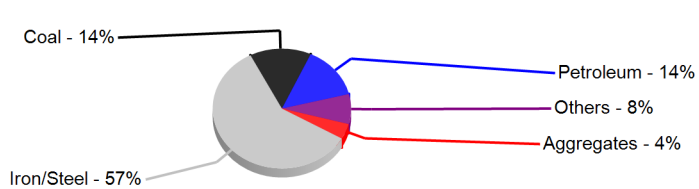
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## Michigan - Continued

### 2016 Great Lakes Traffic Commodity Value Distribution

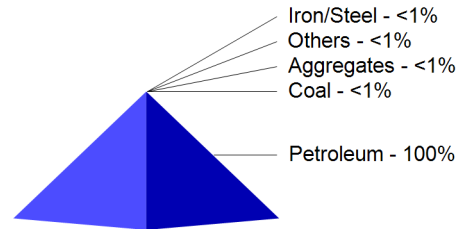
Total Value: \$3.66 (Billion)



Remaining 4% unable to release due to insufficient operators

### 2016 River Traffic Commodity Value Distribution

Total Value: \$0.04 (Billion)



Remaining <1% unable to release due to insufficient operators

### Michigan 2016 Top 5 Waterways (Tons in thousands; values in Millions of dollars)

Waterway Name	State Rank	Tons	Value
Lake Huron	1	15,508.4	\$469.3
Detroit River, MI	2	13,266.6	\$1,467.7
Lake Michigan	3	12,018.9	\$973.2
Lake Superior	4	9,950.7	\$957.1
St. Clair River, MI	5	6,886.3	\$258.1

Commodity Values not calculated for foreign/coastal movements.

Source: USACE Waterborne Commerce Statistics, Values estimated from 2012 NDSU Commodity Valuation Study, values indexed by CPI to 2016 price level

\*\* Insufficient operators to release tonnage

### Michigan 2016 Top 3 Ports (Tons in thousands)

Port Name	U.S. Rank	Type	Total Port Tons	Port Tons Within State
Presque Isle, MI	6	Lake	8,789.7	8,789.7
Rouge River, MI	10	Lake	7,293.4	7,293.4
Stoneport, MI	12	Lake	5,751.2	5,751.2

Source: USACE Waterborne Commerce Statistics

\*\* Insufficient operators to release tonnage

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