

HELPING KEEP THE STATE'S ECONOMY AFLOAT

# ECONOMIC IMPACT OF WISCONSIN'S COMMERCIAL PORTS

PHOTO CREDIT: SAM LAPINSKI



*Wisconsin's port facilities serve as hubs of diverse economic activity linking waterborne commercial vessels with an extensive network of highways, railroads, and airports.*

WISCONSIN DEPARTMENT OF TRANSPORTATION  
BUREAU OF PLANNING AND ECONOMIC DEVELOPMENT

DECEMBER 2010

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*Each year, about 40 million tons of goods worth over \$8 billion pass through Wisconsin's commercial ports, including essential products such as coal for power plants, iron ore and wood pulp for industry, and salt for the safety of our roads.*

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## INTRODUCTION

Moving goods by water in Wisconsin is a tradition that began in the late 1650s when the settlers arrived at Lake Superior's Chequamgon Bay. French explorers and fur traders quickly recognized the state waterways' vast potential. Today, water transportation continues to serve as the most efficient method for moving bulk commodities—and plays a vital role in the transport of heavy machinery, steel, bagged and canned cargo, wind energy components and other goods.

Wisconsin's location, bordered on three sides by commercially navigable waterways, perfectly situates it to benefit from water transportation. Wisconsin's ports serve as centers of ship building, commercial fishing, ferrying services and the efficient transport of bulk goods. Each year, Wisconsin ports handle over 40 million tons of cargo valued at over \$8 billion.<sup>1</sup> This includes agricultural commodities destined for international markets, coal for power plants, iron ore and wood pulp, cement and road salt.

Wisconsin's commercial ports are major economic hubs, generating thousands of family-supporting jobs while playing an increasingly important role in the state's tourism industry and adding greatly to the state's quality of life. Through research, interviews and economic modeling, this study illustrates the economic importance of Wisconsin's port facilities to guide future port infrastructure improvements and help potential shippers understand the unique capabilities and advantages of water transportation.

Moving bulk commodities by water is efficient, environmentally friendly, and safe. An inland barge can move a ton of freight approximately 576 miles on one gallon of fuel. Railroads move approximately 413 ton-miles per gallon, and trucks approximately 155 ton-miles per gallon. An inland barge produces less than one third of greenhouse gas levels (GHG) per million ton-miles as a truck (71.61 ton-GHG per 106 ton-miles as opposed to 19.27 ton-GHG per 106 ton-miles). Inland barge transportation also has lower injury and fatality levels than rail and truck transport.<sup>2</sup>

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*Total gross economic impact of commercial ports in Wisconsin (not including U.S. Coast Guard expenditures): 9,550 jobs, \$1,625,085,300 in output and \$461,987,530 in personal income from wages and salaries*

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## **ST. LAWRENCE SEAWAY AND UPPER MISSISSIPPI RIVER SYSTEMS**

Wisconsin is directly connected to two major waterway systems, the Upper Mississippi River System and the Great Lakes-St. Lawrence River System. The Great Lakes-St. Lawrence Seaway System extends 2,340 miles, from Duluth, Minnesota eastward to the Gulf of St. Lawrence on the Atlantic Ocean. It connects the five Great Lakes—Superior, Michigan, Huron, Erie and Ontario—serving 17 states and providing access to 15 major international ports. Since it opened to navigation in 1959, over two billion tons of cargo have passed through the St. Lawrence Seaway System.

The Upper Mississippi River System is a 1,300-mile waterway linking five states to the Gulf Coast. It supports a wide variety of uses including commercial navigation, fishing, hunting and other recreational activities. Each year, about 40 million tons of cargo travels the river route between Minneapolis and the mouth of the Missouri River. Twenty-nine locks and dams accommodate the movement of commercial and recreational boat traffic. Agricultural products, petroleum products, and coal are leading commodities, with farm products accounting for half the total tonnage moved along this vital water route.

## **ECONOMIC IMPACT OF PORTS**

As centers of economic activity, ports and harbors in Wisconsin include the operations of local and municipal government agencies, federal agencies such as the Coast Guard and U.S. Army Corps of Engineers, and private operators that contract with these agencies. Also economically significant are port terminal operators, stevedoring, vessel supply, boat and ship builders and repair facilities, commercial and charter fishing operations, and other marine-related businesses. These are primary impact industries, providing transportation and port services. This analysis focuses on the direct, indirect, and induced economic effects of these industries, and provides estimates in terms of employment, wages and salaries, and output (total economic activity, roughly similar to sales).<sup>3</sup>

Also economically significant are firms that are attracted to a region because of the presence of a port, but are not located at the port itself. These firms typically fall into two groups: exporters of commodities and importers of raw materials for assembly or distribution. There are also port-induced industries, which have expanded their markets by exporting through the port. For these industries, the port is a source of reduced transportation costs that can support industry expansion. Due to data availability constraints, this report does not include estimations of the economic significance of these industries.

The economic effects of port activities ripple outward through the state, providing both direct and indirect business, income, and jobs. Direct economic impact is the sum of the initial port-related spending by port authorities and their contractors, terminal operators, and other water transportation service providers. This analysis includes ship building and boat-building operations tied to ports, as well as the operations of the U.S. Coast Guard and the U.S. Army Corps of Engineers.

Indirect economic impact is the economic activity generated by suppliers to the port agencies and their contractors, and to all the other businesses included in the direct economic impact. It also includes the supply chain linked to these suppliers.

Induced economic impact is the activity generated within the state when employees of ports and port-related businesses (and government entities such as the Coast Guard and the Corps of Engineers) spend their wages on food, clothing, shelter, etc. All this spending is income for the recipient businesses, and is, in turn, re-spent in the economy, creating a spinoff effect as successive waves of spending occur.

Each of these types of impact adds jobs, income, and output to the economy. The total gross economic impact is the sum of the direct, indirect, and induced impacts on employment, income, and output. In 2008, businesses at Wisconsin's commercial ports supported 9,550 jobs, and generated over \$1.6 billion in economic output and nearly \$462 million in personal income from wages and salaries. The following is a detailed breakdown of these impacts, by major business type:

### PRIVATE BUSINESSES

Freight and passenger transportation, furnishing marine services, and handling marine cargo at the ports.

2008 ECONOMIC IMPACT	JOBS	OUTPUT	PERSONAL INCOME
Direct	1,124	\$301,723,740	\$70,077,550
Indirect and induced	1,615	\$199,377,220	\$69,513,610
Total	2,740	\$501,100,960	\$139,591,170

### COMMERCIAL FISHING

A specialized subsector of private, port-related businesses important to many Wisconsin communities.

2008 ECONOMIC IMPACT	JOBS	OUTPUT	PERSONAL INCOME
Direct	730	\$21,707,290	\$2,355,440
Indirect and induced	90	\$10,208,070	\$3,746,590
Total	820	\$31,915,370	\$6,102,020

### SHIP AND BOAT BUILDING

An important manufacturing industry in Wisconsin, including businesses that repair and refurbish boats and ships. Analysis excludes Wisconsin firms engaged in canoe and other non-port oriented activities.

2008 ECONOMIC IMPACT	JOBS	OUTPUT	PERSONAL INCOME
Direct	2,230	\$603,539,520	\$160,568,420
Indirect and induced	3,600	\$466,192,400	\$147,595,900
Total	5,830	\$1,069,731,900	\$308,164,320

### PORTS ADMINISTRATION

The management and administration of ports also generates economic activity. These estimates include the activities of the U.S. Army Corps of Engineers at the ports.

2008 ECONOMIC IMPACT	JOBS	OUTPUT	PERSONAL INCOME
Direct	80	\$12,305,560	\$4,752,380
Indirect and induced	81	\$10,031,510	\$3,377,645
Total	160	\$22,337,070	\$8,130,020

### U. S. COAST GUARD

The U.S. Coast Guard employs both civilian and military personnel, and contracts with both public and private contractors and providers in Wisconsin. Some of this business includes the ship builders and ship repair and maintenance providers described above. There is no method to separate those Coast Guard expenditures from its other expenditures; therefore, these estimates include some of the impacts listed in the Ship and Boat Building category.

2008 ECONOMIC IMPACT	JOBS	OUTPUT	PERSONAL INCOME
Total	830	\$71,841,560	\$39,570,130

The following are profiles of Wisconsin's largest commercial ports. Not included in these profiles are several smaller ports with smaller or no commercial maritime activity.<sup>4</sup>



PHOTO CREDIT: PORT OF MILWAUKEE

Port of Milwaukee

## MILWAUKEE

The Port of Milwaukee offers an operational flexibility unique to the western Great Lakes utilizing the St. Lawrence Seaway and inland waterway system. Terminals designed for the efficient handling of steel products, containers, general cargo, roll-on/roll-off vehicles, dry and liquid bulk, and heavy machinery, plus intermodal connections to all Midwest cities, make the Port of Milwaukee a key economic link for routing all types of cargo, by ship or barge. The port's facilities are becoming increasingly important in transporting wind energy equipment.

### PRIMARY PORT CONTACT

Eric C. Reinelt  
 Municipal Port Director  
 2323 S. Lincoln Memorial Drive  
 Milwaukee, WI 53207  
 Phone: (414) 286-3511  
 Fax: (414) 286-8506  
 Email: [ereine@milwaukee.gov](mailto:ereine@milwaukee.gov)  
 Web site: [www.milwaukee.gov/port](http://www.milwaukee.gov/port)

### PRIMARY ROAD AND RAIL ACCESS

**Roads:** The Interstate Highway System (I-94/I-794) leads directly into the Port of Milwaukee, assuring delay-free pickup and delivery. Highway deliveries to cities within a 350-mile radius (Chicago, Minneapolis/St. Paul, Peoria, Des Moines, Moline, Indianapolis) are accomplished in a few hours.

Truck scales are located at the port. High-wide truck access to dock areas is available via East Bay Street by appointment.

**Rail:** The Port of Milwaukee is served by two Class 1 railroads—the Canadian Pacific Railway and the Union Pacific Railroad. Both provide pier delivery and switching services to all port terminals. Fifteen miles of port-owned and maintained track, connect each terminal to the main line railroads. The classification yard provides track for unit train assembly. Terminal lead tracks have 120-pound rail.

### TYPES OF CARGO HANDLED

The port of Milwaukee handles coal, scrap/pig iron, cement, general cargo, sand, limestone, salt, grain, heavy lifts. Also, it is the third largest grain exporter in the Great Lakes region.

### AVERAGE 2004–2008 ANNUAL TONNAGE HANDLED

3.64 million short tons<sup>5</sup>

### WAREHOUSE SPACE

**Covered:** 311,000 square feet

**Temperature controlled:** 30,000 square feet

**Liquid (gallons):** 286,000 barrels or 12,000,000 gallons

**Container yard:** The port's intermodal container yard, operated for the Canadian Pacific Railway, is an all-asphalt surface equipped with a modern fleet of top lifts and chassis to expedite stacking and retrieval. Several leasing pools and a container repair and sales service are also located at the yard.

**Storage:** The port maintains 10 acres of paved, lighted and fenced areas for the storage and marshalling of project, steel and dry bulk cargoes. These sites are in close proximity to the roll-on/roll-off berths and outer harbor docks.

### CARGO HANDLING EQUIPMENT

The port owns and operates a variety of heavy lift cranes with lifting capacities up to 200 metric tons. These cranes are rented on an hourly basis to port terminal operators for handling both dry bulk and general cargos.

PHOTO CREDIT: DAVE HELLI



*Port of Manitowoc*

## MANITOWOC

The Port of Manitowoc handles bulk commodities, newly constructed yachts, and passengers on the Lake Michigan car ferry. The port is also home to a marine contracting firm that serves Lake Michigan ports in Wisconsin and Michigan.

### PRIMARY PORT CONTACT

Mike Huck, Harbormaster  
City of Manitowoc – Engineering  
900 Quay Street  
Manitowoc, WI 54220  
Phone: (920) 686-6910

### ADDITIONAL CONTACTS

Specification Stone Products  
Valders Stone and Marble  
P.O. Box 234  
Valders, WI 54245  
Phone: (920) 775-4151

McMullen & Pitz  
17 Maritime Drive  
P.O. Box 8  
Manitowoc, WI 54221-008  
Phone: (920) 682-0131  
Fax: (920) 682-1099

### PRIMARY ROAD AND RAIL ACCESS

**Roads:** US 10 and WIS 42 lead to local access points to all of the private docks.

**Rail:** Wisconsin Central's access point is at the 16th Street Peninsula.

### TYPES OF CARGO HANDLED

Cement, rock, stone, coal, wood, and newly constructed yachts

### AVERAGE 2004–2008 ANNUAL TONNAGE HANDLED

359,525 short tons<sup>6</sup>

### WAREHOUSE SPACE

**Uncovered:** 91,000 square feet

Cargo handling equipment

Front-end loaders and marine contracting equipment (spud barges, cranes, etc.)

PHOTO CREDIT: SCOTT BEST



Port of Marinette

## MARINETTE

The Port of Marinette serves industries with facilities on the harbor. These include Marinette Fuel and Dock and Marinette Marine Corporation, a Fincantieri Company.

### PRIMARY PORT CONTACT

David Campbell  
Marinette Fuel and Dock Company  
808 Ogden Street  
Marinette, WI 54143  
Phone: (715) 735-6694  
Fax: (715) 735-9654  
E-mail: [mardock@centurytel.net](mailto:mardock@centurytel.net)

### ADDITIONAL CONTACT

Marinette Marine Corporation  
1600 Ely Street  
Marinette, WI 54143-2434  
Phone: (715) 735-9341  
Web site: [www.fincantierimarinegroup.com](http://www.fincantierimarinegroup.com)

### PRIMARY ROAD AND RAIL ACCESS

**Roads:** US 41 and Ogden Street serve Marinette Fuel and Dock  
US 41 and Ely Street serve Marinette Marine Corporation

### TYPES OF CARGO HANDLED

Marinette Fuel and Dock handles pig iron, road salt, coal, limestone and wood pulp.

Marinette Marine Corporation is an established ship builder that has designed and built high-tech vessels for the U.S. Navy, Coast Guard, and others.

### AVERAGE 2004–2008 ANNUAL TONNAGE HANDLED

347,309 short tons<sup>7</sup>

### WAREHOUSE SPACE

**Uncovered:** 14.5 acres

The shipyard has a number of buildings used for warehousing, fabrication, construction and painting for ship building purposes.

### CARGO HANDLING EQUIPMENT

Two 100-ton cranes

The shipyard has a variety of forklift trucks, module moving equipment and cranes located throughout the yard. Maximum lifting and moving equipment capability is 1,600 tons. The port has a ship lift that can accommodate up to 200 tons and 1,800 feet of dockwall with water depths of over 20 feet for mooring.



## LA CROSSE

The Port of La Crosse handles nearly one million tons of commodities annually including liquids, cement, grain and general bulk products. Strategically located near major roads and rail yards, the port offers connections to the Upper Midwest and the world—importing and exporting products from China, Russia, Spain, South America, Mexico and other countries. The port serves as home for two seasonal excursion tour boats. Skipperliner Industries builds excursion boats that are used from Disney Land in Florida to the canals in Upper New York.

### PRIMARY PORT CONTACT

Larry Kirch  
La Crosse Joint Board of Harbor  
Commissioners  
La Crosse City Hall  
400 La Crosse Street North  
La Crosse, Wisconsin, 54601  
Phone: (608) 789-7512  
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### ADDITIONAL CONTACTS

Karl Green  
UW-Extension  
La Crosse Co. Administrative Center  
400 4th Street North  
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Phone: (608) 785-9593  
FAX: (608) 789-4808

*An inland barge produces less than one third of greenhouse gas levels (GHG) per million ton-miles as a truck (71.61 ton-GHG per million ton-miles as opposed to 19.27 ton-GHG per million ton-miles).*



PHOTO CREDIT: DOUG CONNELL

Port of La Crosse

### PRIMARY ROAD AND RAIL ACCESS

**Roads:** I-90, US 14/61, WIS 53, and WIS 35.

**Rail:** Canadian Pacific and Burlington Northern Santa Fe

### TYPES OF CARGO HANDLED

Grain, cement, asphalt, oils, coal, salt, pig iron, coke, pipe, cottonseed, fertilizer, calcium carbonate, and other bulk products.

### 2008 ANNUAL ESTIMATED TONNAGE

627,165 tons<sup>8</sup>

### WAREHOUSE SPACE

**Covered:** 100,000 square feet

**Uncovered:** 60 acres

**Temperature controlled:** arranged

**Liquid (gallons):** 20 million gallons

**General/bulk cargo, etc.:** 60 acres

### CARGO HANDLING EQUIPMENT

Cranes with up to 150 tons of lift capacity, pneumatic unloaders, conveyor loading equipment, and other miscellaneous barge, rail, and truck loading and unloading equipment.

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Blatnik Bridge, Port of Superior

## DULUTH-SUPERIOR

The Port of Duluth-Superior, located at the western most tip of Lake Superior, is the Great Lakes' largest harbor. Each year, Duluth-Superior hosts about 1,100 lake carriers and oceangoing ships, loading or delivering some 38 million tons of bulk and break bulk cargo. The port accommodates a wide range of economic activities ranging from western grain fields, the Iron Range, the Montana-Wyoming coal mines, and northern forests.

### PRIMARY PORT CONTACT

Jason Serck, AICP  
Planning & Port Director  
City of Superior  
Superior, WI 54880  
Phone: (715) 395-7335  
Fax: (715) 395-7292  
E-mail: [serckj@ci.superior.wi.us](mailto:serckj@ci.superior.wi.us)  
Web site: [www.duluthport.com](http://www.duluthport.com)

### PRIMARY ROAD AND RAIL ACCESS

**Roads:** WIS 35, USH 2 and 53 and Minnesota State Highway 61

**Rail:** Burlington Northern Santa Fe, Canadian Pacific, Canadian National, Duluth Missabe & Iron Range, Union Pacific and Wisconsin Central

### TYPES OF CARGO HANDLED

Bulk and break bulk, with principal cargoes being iron ore, coal, and grain. Other cargoes include cement, limestone, salt and miscellaneous cargo.

### AVERAGE 2004–2008 ANNUAL TONNAGE HANDLED

45,785,477 short tons<sup>9</sup>

### WAREHOUSE SPACE

**Covered:** 256,000 square feet

**Uncovered:** 500,000 square feet

**Temperature controlled:**  
256,000 square feet

**General/bulk cargo:**  
11.2 million tons capacity

**Total grain elevator capacity:**  
52 million bushels

### CARGO HANDLING EQUIPMENT

Seven berths (6,600 linear feet of dock space) at full Seaway depth

Two 82-metric ton (180,000 pounds) rail-mounted gantry cranes lifting 125 metric tons in tandem (greater capability cranes available on demand)

A fleet of forklift trucks with capacities of up to 55,000 pounds

Roll on/roll off ramp with immediate access to Interstate highway and designated heavy-lift route

## STURGEON BAY

The Port of Sturgeon Bay is the location of major ship building and ship repair facilities on Lake Michigan. Bay Shipbuilding is the Great Lakes' leading builder of self-unloading bulk carriers and also constructs 1,000-foot lake carriers—among the largest ships traveling the Great Lakes. The company also manufactures and repairs large and small vessels for military and commercial use. Palmer Johnson, Inc. manufactures world-class luxury yachts.

### PRIMARY PORT CONTACT

Todd Thaysé  
Bay Shipbuilding Company  
605 North Third Avenue  
P.O. Box 830  
Sturgeon Bay, WI 54235  
Phone: (920) 743-5524  
Fax: (920) 743-2371  
Web site: [www.manitowoc.com](http://www.manitowoc.com)

### ADDITIONAL CONTACT

Scotty Turner  
Palmer Johnson, Inc.  
61 Michigan Street  
P.O. Box 109  
Sturgeon Bay, WI 54235  
Phone: (920) 743-4412  
Fax: (920) 743-3381  
Web site: [www.palmerjohnson.com](http://www.palmerjohnson.com)

### TYPES OF CARGO HANDLED

Vessels under construction or repair

### AVERAGE 2004–2008 ANNUAL TONNAGE HANDLED

31,779 short tons<sup>10</sup>



PHOTO CREDIT: TONY HODGES

*Michigan Street Bridge, Port of Sturgeon Bay*

## PRAIRIE DU CHIEN



PHOTO CREDIT: JOHN A. WEEKS III

*Port of Prairie du Chien*

The Port of Prairie du Chien is located on the Mississippi River in the southwest corner of the state. The city owns docks that accommodate large paddle wheel cruise boats and small excursion boats. Privately owned docks and storage facilities handle bulk cargo.

### PRIMARY PORT CONTACT

Blair Dillman  
Prairie Sand and Gravel, Inc.  
P.O. Box 210  
Prairie Du Chien, WI 53821  
Phone: (608) 326-6471  
Fax: (608) 326-8955

### PRIMARY ROAD AND RAIL ACCESS

**Roads:** US18 and WIS35

**Rail:** Burlington Northern-Santa Fe and Wisconsin Southern Railroads

### TYPES OF CARGO HANDLED

Coal, salt, sand, cement, grain and fertilizer

### 2008 ANNUAL ESTIMATED TONNAGE

441,294 tons<sup>11</sup>

### WAREHOUSE SPACE

Approximately 20,000 square feet covered and 25 acres open; fleet capacity 30 barges on site

### CARGO HANDLING EQUIPMENT

10-ton lift equipment

## GREEN BAY

The Port of Green Bay is strategically located on the western most point of Lake Michigan and offers a direct route for shipments linking Midwest and international markets. The port is served by major railroads, and several nationally known truck lines provide overnight delivery within a 400-mile radius.

Terminals located on the adjacent Fox River include 14 capable of handling dry bulk commodities such as coal, cement, limestone, salt, and pig iron. Four firms handle bulk liquids including tallow, petroleum products and asphalt. Two general cargo docks can handle wood pulp, machinery, bagged agricultural commodities and forest products.

### PRIMARY ROAD AND RAIL ACCESS

**Roads:** I-43, US 41-141, and WIS 29, 32 and 57

**Rail:** Canadian National

### TYPES OF CARGO HANDLED

Coal, limestone, salt, cement, liquid asphalt, liquid bulk, misc. bulk, tallow, and pig iron

### AVERAGE 2004–2008 ANNUAL TONNAGE HANDLED

2,558,851 short tons<sup>12</sup>

### WAREHOUSE SPACE

**Covered:** 135,000 square feet

**Uncovered:** 150,000 square feet

**Liquid:** 34,000,000 gallons

**General/bulk cargo:** 100 acres

30,000 tons silo storage

### CARGO HANDLING EQUIPMENT

Three 8-cubic yard payloaders and one 100-ton crane

Two 10-inch lines for pumping cement off ship or barge



PHOTO CREDIT: JEFF DUMEZ

*Port of Green Bay*

### PRIMARY PORT CONTACT

Mr. Dean R. Haen, Port Manager  
Brown County Port and  
Solid Waste Department  
2561 S. Broadway Street  
Green Bay, WI 54304  
Phone: (920) 492-4950  
Fax: (920) 492-4957  
E-mail: [haen\\_dr@co.brown.wi.us](mailto:haen_dr@co.brown.wi.us)  
Web site: [www.portofgreenbay.com](http://www.portofgreenbay.com)

### ADDITIONAL CONTACT

Ace Marine LLC  
201 South Pearl Street  
Green Bay, WI 54301  
Phone: (715) 735-4101

## FERRIES OPERATING IN WISCONSIN

Water transportation in Wisconsin includes six ferries with an important role in their communities' economies and the state's tourism industry. This includes linking island communities with jobs, schools, hospitals and other services. Please contact WisDOT's Bureau of Planning & Economic Development for more information about the economic impact of ferries.<sup>14</sup>

### CASSVILLE FERRY

Web site: [www.cassville.org/ferry.html](http://www.cassville.org/ferry.html)

Located in southwest Wisconsin on the Mississippi River, the Cassville Ferry operates between WIS 133/81 and US 52 near Millville, Iowa.

### LAKE EXPRESS CAR FERRY

Web site: [www.lake-express.com](http://www.lake-express.com)

Located on leased Port of Milwaukee property, the Lake Express auto/passenger ferry offers service between Milwaukee, Wisconsin and Muskegon, Michigan, crossing Lake Michigan in just two and one-half hours.

### LAKE MICHIGAN CARFERRY

Web site: [www.ssbadger.com](http://www.ssbadger.com)

Located in eastern Wisconsin along Lake Michigan, the Lake Michigan Carferry connects Manitowoc, Wisconsin, with Ludington, Michigan. Crossing time is approximately four hours.

### MADLINE ISLAND FERRY LINE

Web site: [www.madferry.com](http://www.madferry.com)

Located on Wisconsin's northern tip along Lake Superior, the Madeline Island Ferry connects Bayfield, Wisconsin, with LaPointe Harbor on Madeline Island.

### MERRIMAC FERRY

Web site: [www.dot.state.wi.us/dtd/hdist1/ferry.html](http://www.dot.state.wi.us/dtd/hdist1/ferry.html)

Located in south-central Wisconsin, the Merrimac Ferry is the state's only free ferry shuttling WIS 113 traffic between Okee and Merrimac, across the Wisconsin River.

### WASHINGTON ISLAND FERRY

Web site: [www.wisferry.com](http://www.wisferry.com)

Located in Door County, Wisconsin on Lake Michigan, the Washington Island Ferry connects WIS 42 from Northport, Wisconsin, with Detroit Harbor on Washington Island—a distance of 4.5 miles.

## HARBOR ASSISTANCE PROGRAM

To assist harbor communities along the Great Lakes and Mississippi River maintain and improve waterborne commerce, WisDOT created the Harbor Assistance Program (HAP) in 1979. HAP projects typically include dock reconstruction, mooring structure replacement, dredging, and the construction of facilities to hold dredged material. Grant applications are accepted twice per year—August 1 and February 1.

Since 1980, WisDOT has contributed over \$67 million in matching funds for some 64 port preservation and improvement projects.<sup>13</sup>

To be eligible for funding, the port facility must be publicly-owned; the project must benefit facilities that are used for cargo transfer, ship building, commercial fishing, or regular ferry service; the applicant must be a local unit of government; the project must pass a rigorous benefit-cost analysis; and the project must have been identified in a current Three-Year Harbor Development Plan. Project selection criteria are outlined in administrative rule TRANS 28 and consider a project's urgency and economic impact.

## CONCLUSION

Wisconsin's port facilities serve as multi-modal distribution centers linking waterborne vessels with an extensive network of highways, railroads, and airports. While Wisconsin's waterways and harbors are deeply rooted in the state's history, they continue to play an important role in the state's economic future.

## ENDNOTES

- <sup>1</sup> Wisconsin freight shipment value 2007 TRANSEARCH data provided by Global Insight. 2008 freight tonnage provided by U.S. Army Corps of Engineers Institute for Water Resources, Navigation Data Center.
- <sup>2</sup> [http://www.americanwaterways.com/press\\_room/news\\_releases/NWFStudy.pdf](http://www.americanwaterways.com/press_room/news_releases/NWFStudy.pdf)
- <sup>3</sup> IMPLAN 2008, version 3
- <sup>4</sup> Ports excluded in this report are located in Bayfield, Washburn, Ashland, Washington Island, Sheboygan, and Port Washington.
- <sup>5</sup> U.S. Army Corps of Engineers, Institute for Water Resources, Navigation Data Center, <http://www.iwr.usace.army.mil/ndc/wcsc/webpub08/webpubpart-3.htm>  
Tonnage is given in short tons. A short ton is equal to 2,000 pounds (907.18474 kilograms) and is often called “ton”, without distinguishing it from the metric ton (1,000 kilograms).
- <sup>6</sup> Ibid.
- <sup>7</sup> Ibid.
- <sup>8</sup> Ibid. Estimated 2008 Cargo. Estimate is for short tons shipped and received. The Waterborne Commerce Statistics Center does not publish separate port tonnages for La Crosse.
- <sup>9</sup> Ibid.
- <sup>10</sup> Ibid.
- <sup>11</sup> Ibid. Estimated 2008 Cargo. Estimate is for short tons shipped and received. The Waterborne Commerce Statistics Center does not publish separate port tonnages for Prairie du Chien.
- <sup>12</sup> Ibid.
- <sup>13</sup> For more information about the Harbor Assistance Program, contact Larry Kieck, WisDOT’s Railroads and Harbors Section, (608) 267-9319.
- <sup>14</sup> For information about ferries, contact Professor Teresa M. Adams, PhD, University of Wisconsin, Department of Civil and Environmental Engineering. Email: [adams@engr.wisc.edu](mailto:adams@engr.wisc.edu)

# ACKNOWLEDGEMENTS

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Wisconsin Commercial Ports Association

Port of Duluth-Superior

Port of Green Bay

Port of La Crosse

Port of Manitowoc

Port of Marinette

Port of Milwaukee

Port of Prairie du Chien

Port of Sturgeon Bay

US Army Corps of Engineers,  
Institute of Water Resources,  
Waterborne Commerce Statistics Center

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*Wisconsin's ports serve as centers of ship building,  
commercial fishing, ferrying services, and of course,  
the efficient transport of bulk goods.*

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**WISCONSIN DEPARTMENT OF TRANSPORTATION  
BUREAU OF PLANNING AND ECONOMIC DEVELOPMENT**

**[WWW.DOT.WISCONSIN.GOV/TRAVEL/WATER](http://WWW.DOT.WISCONSIN.GOV/TRAVEL/WATER)**