



US Army Corps
of Engineers.



Muskegon Harbor, MI

Harbor Features

- Located on the east shore of Lake Michigan, 114 miles northeast of Chicago, IL.
- Authorization: River & Harbor Acts of 13 Jun 1902, 3 Mar 1935, 30 Aug 1935, 23 Oct 1962
- Deep draft commercial harbor
- Project depths are 29 feet at the outer harbor entrance and 28 feet in the inner harbor entrance channel. The project depth is 27 feet at the upstream limit of the federal project.
- Five year average (2006-2010) tonnage is 1.9M tons of material shipped and received
- Ranked 30th among the Great Lakes Harbors based on five year average (2006-2010) tonnage
- 118th leading U.S. port in 2010
- Approximately 6,500 feet of maintained Federal channel
- Dredged material from this harbor is used for beach nourishment.
- Over 6,200 feet of structures maintained, including breakwaters, piers, and revetments.
- Major stakeholders include U.S. Coast Guard, Lake Carriers' Association, Verplank, West Michigan Dock and Market, Lafarge Corporation, Lake Express Ferry Service, Grand Valley State University, NOAA, City of Muskegon, MDNR, Consumers Energy, St. Marys Cement, as well as multiple private marinas and charter fishing vessels.

Project Requirements

- Maintenance dredging of approximately 60,000 to 90,000 cubic yards is required on a 2 to 3 year cycle; the harbor was last dredged in 2011. The harbor will be dredged in 2013.



- Navigation structures are primarily maintained by Government floating plant; Latest inspection revealed loss of critical armor stone protection; Wood cribbing is now exposed and shows signs of deterioration and resultant loss of core stone from the structure.

Consequences of Not Maintaining the Project

- Reduction of bulk commodities that pass through the harbor that generate \$571M annually in direct revenue while supporting 2,065 direct, indirect, and induced jobs that produce over \$134M per year in personal income
- If the harbor was closed to commercial traffic, commodities would have to be transported by rail and truck. This would increase annual emission rates by over 98M lbs of harmful particulate matter (PM-10) and increase costs by \$264,000 due to increased railroad related accidents, and \$8M due to increased trucking related accidents.
- Light loading; loss of between 2 and 3 feet of channel depth results in increased transportation costs of between \$134,000 and \$302,000 annually.

Transportation Importance

April 2013

- Harbor of Refuge
 - Home to the U.S. Coast Guard Station
- Muskegon
- Major receiving port on the Great Lakes
 - Commodities include primarily sand, gravel, limestone, cement, concrete, and coal.
 - Harbor serves as the port for Grand Rapids and the greater West Michigan Region for commercial and recreational traffic, education and environmental research.
 - Harbor is home to the NOAA Great Lakes Environmental Research Laboratory Lake Michigan Field Station, Grand Valley State University Annis Water Resources Institute and the Michigan Alternative and Renewable Energy Center.
 - Ten private marinas on Muskegon Lake, with more than 1,000 boat slips.

- The City of Muskegon maintains one public marina and five public launches, including: Hartshorn Marina with 143 major boat slips, 30 small slips and 102 moorings.
- Muskegon State Park, Laketon Township and the City of North Muskegon each maintain public boat launch facilities.
- Harbor is home to Fisherman's Landing, which is an 18.6-acre sport-fishing and recreational bass tournament camping facility.
- Home port to the Lake Express, a commercial terminal providing high speed cross lake ferry service to and from Milwaukee, WI.

**U.S. Army Corps of Engineers Fiscal Year (FY) 2012, 2013 and 2014
Muskegon Harbor, MI - Project Requirements and President's Budget (\$1,000)**

Work Package	FY12 Requirement	FY12 Appropriation	FY13 Requirement	FY13 President's Budget	FY14 Requirement	FY14 President's Budget
Project Condition Surveys			80	80		
Maintenance Dredging -- Primary Work Package			531	531		
Breakwater Repairs -- by Gov. Floating Plant	700	686	297			
E&D for Repairs to N. Breakwater	175		175		175	
Sediment Budget Analysis -- Section 111	150		150		150	
TOTALS	1,025	686	1,233	611	325	0

Congressional Interests

- Representative Bill Huizenga-MI-2
- Senator Carl Levin D-MI
- Senator Debbie Stabenow D-MI