



US Army Corps
of Engineers®



Grand Haven Harbor and Grand River, MI

Harbor Features

- Located on the east shore of Lake Michigan, 180 miles northeast of Chicago, IL and 23 miles north of Holland, MI. The Grand River originates in Jackson County, MI and flows 260 miles west into Lake Michigan.
- Authorization: River & Harbor Acts of 23 Jun 1866, and subsequent acts
- Deep draft commercial harbor
- Project depths of 23 feet in the entrance; 18 to 21 feet in the river channel and turning basin; 8 feet in the upper Grand River channel
- 751K tons of material shipped and received in 2013
- Over 9,000 feet of structures including piers and revetments
- Over 2.5 miles of maintained deep draft channel and 14.5 miles of shallow draft river channel
- Outer channel dredged material is used for beach nourishment. Inner channel material is placed upland in a site that enables reuse.
- Major stakeholders include U.S. Coast Guard, Construction Aggregate Corporation, Grand Haven Board of Light and Power, Meekoff Dock Inc., St. Marys Cement Inc., and Verplank Trucking.

Project Requirements

- Approximately 35,000 cubic yards of material must be dredged from the outer harbor annually. Approximately 20,000 to 40,000 cubic yards of material must be dredged from the inner channel on a 2 to 4 year cycle. The outer harbor was last dredged in 2015. Maintenance dredging in the inner and outer harbor is planned for 2016.



- The south pier was damaged by significant wave action associated with a major storm that impacted Southern Lake Michigan on October 31, 2014. Sustained winds of 50-60 mph and waves near 30 feet accelerated the deterioration on the breakwater to the point where significant repairs are needed to reduce risks to commercial navigation. Emergency funding was received in 2015 to initiate design of the project. The repairs are planned for 2016.
- Work was completed in 2011 on a section of the south revetment that was damaged in a 2009 storm, however a large section is still in need of repair. Additional damage occurred from a storm on October 31, 2014.

Consequences of Not Maintaining the Project

- Reduction of bulk commodities that pass through the harbor that generate \$1.57B annually in business revenue while supporting 9,518 direct, indirect, and induced jobs that produce over \$472M per year in personal income in transportation and commodity related industries.
- Light loading; loss of between 4 and 5 feet of channel depth results in increased transportation costs of between \$2.2M and \$3.2M annually.

Transportation Importance

- Significant regional receiving port on the Great Lakes
- Harbor of Refuge
- Large recreational tourism base that relies on the functionality of the harbor; the city of Grand Haven reports revenue of \$49M and 3,100 jobs that rely on harbor tourism.
- Commodities received include sand, gravel, salt, cement, gypsum, coal, and manufactured goods

- Adequate rail lines do not exist to deliver coal to the municipal power plant, which supplies power to over 13,500 customers.
- The harbor is home to the U.S. Coast Guard Sector Grand Haven Station, which is responsible for subordinate commands including: search and rescue, law enforcement, ice rescue, homeland security defense operations.

**U.S. Army Corps of Engineers Fiscal Year (FY) 2015, 2016 and 2017
Grand Haven Harbor and Grand River, MI Project
Requirements and President’s Budget (\$1,000)**

Work Package	FY15 Requirement	FY15 Appropriation	FY16 Requirement	FY16 Appropriation	FY17 Requirement	FY17 President’s Budget
Maintenance Dredging Outer Harbor – Primary Work Package	500	500	400	400	500	500
Maintenance Dredging Inner Harbor – Primary Work Package			600	600		
Maintenance Dredging – Backlog Work Package	1,000		1,000			
Sediment Budget Analysis – Section 111	150		150		150	
Repair to Damaged Section of South Pier - Contract						
South Pier Repair by Contract	2,100	250	1,800	1,800		
South Revetment Repair by Contract	1,800		1,800		1,800	
Other Business Lines						
Environmental Stewardship	22	22	15	15	17	11
Recreation						
TOTAL	5,572	772	5,765	2,815	2,467	511

Congressional Interests

- Representative Bill Huizenga R-MI-2
- Senator Gary Peters D-MI
- Senator Debbie Stabenow D-MI