



US Army Corps
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Great Lakes Regional Needs & Challenges

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Great Lakes Navigation
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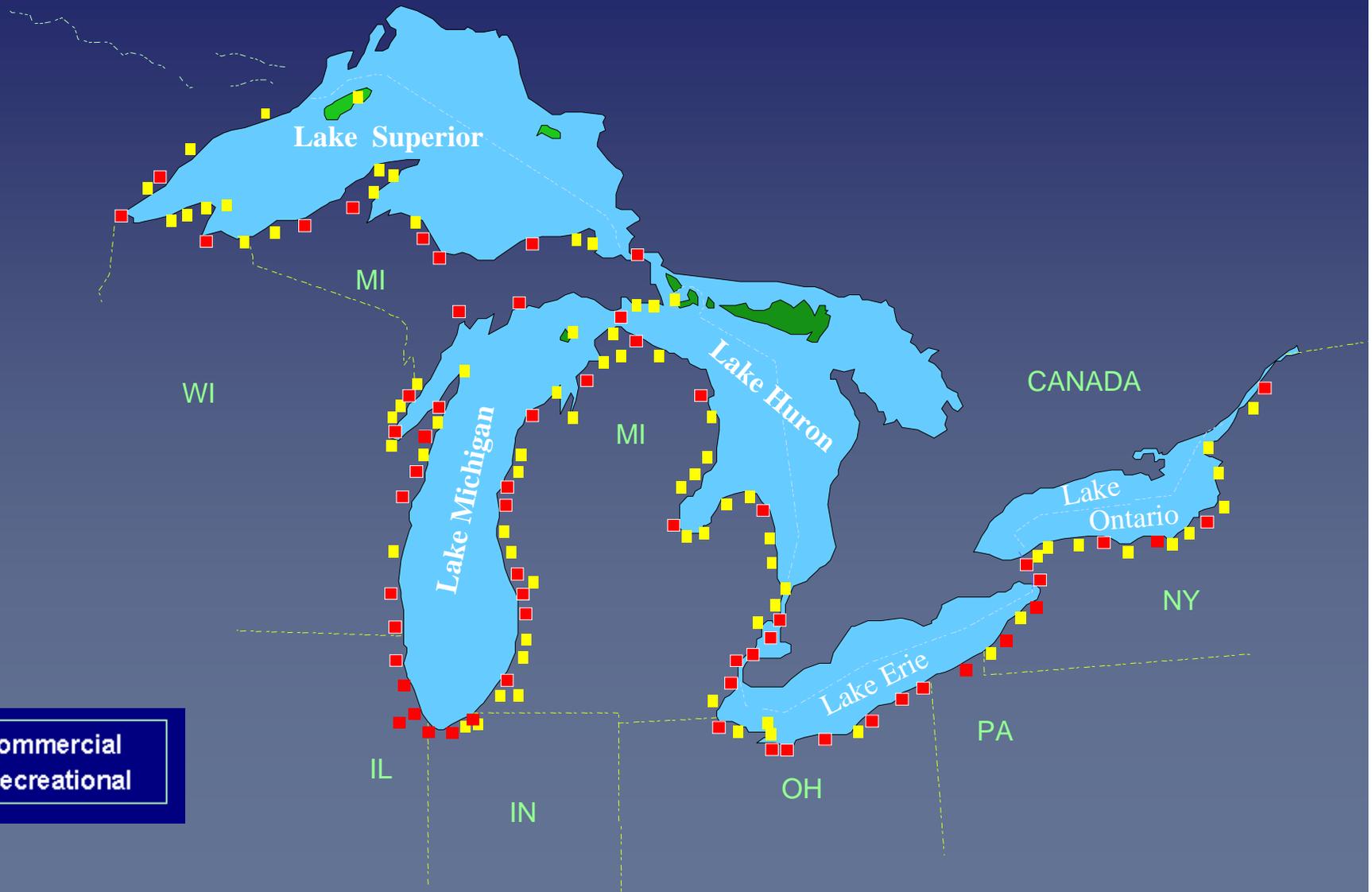
Great Lakes Regional Needs & Challenges

- **Great Lakes Program**
- **FY 07-12 FYDP**
- **Project Fact Sheets**



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Federal Harbors on the Great Lakes





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Federal Harbors on the Great Lakes

- **138 Projects**

 - 60 Commercial

 - 78 Shallow draft/recreational

- **Each harbor individually authorized**

- **It takes an annual appropriation at each individual harbor for us to do work there**



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Five Year Development Plan

Needs are requirements that maintain basic system functionality

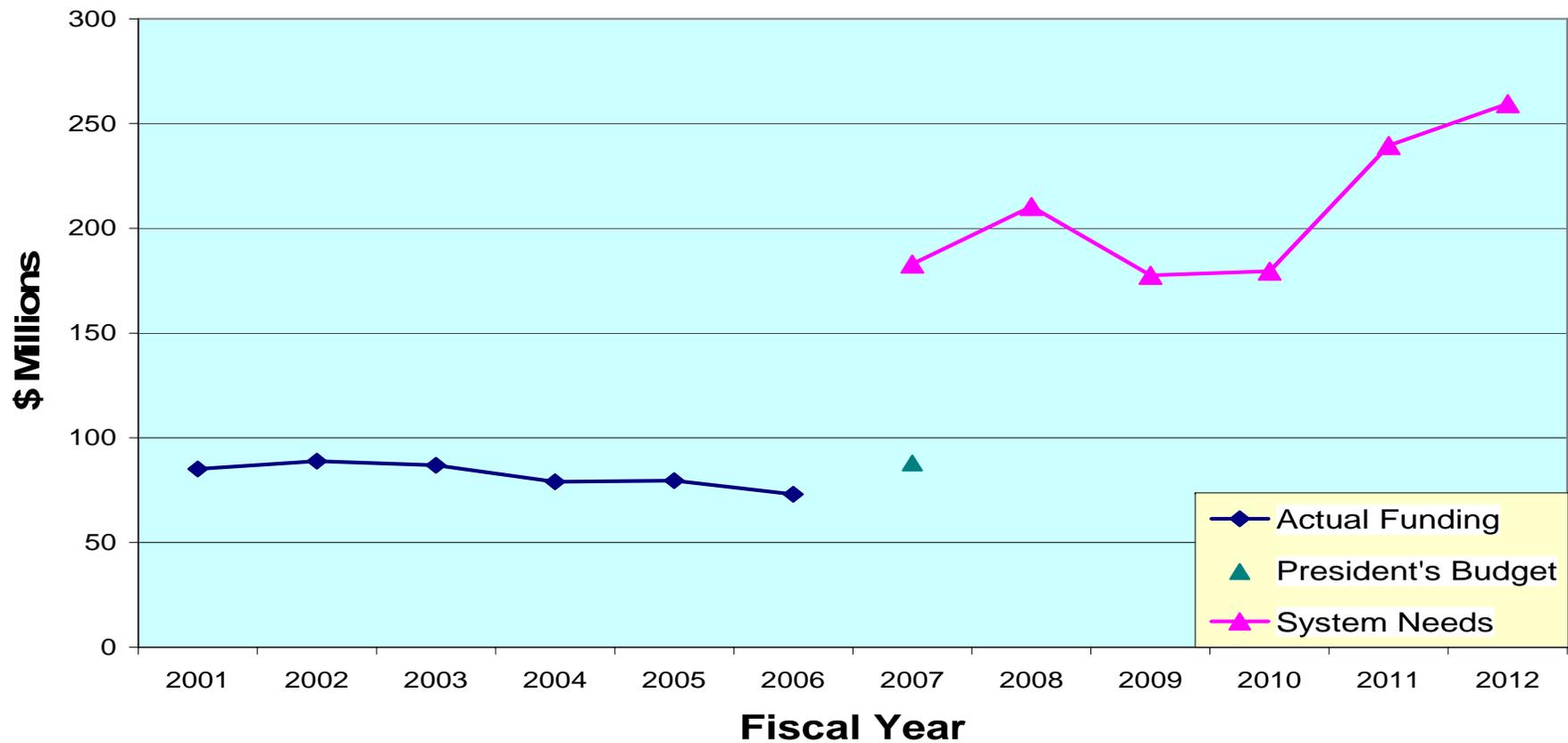
- Needed to achieve an acceptable level of risk in the system
- Maximizing system reliability
- Reducing the risk of catastrophic failures
- Not a requirement to do all potential work that the system could possibly use



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Great Lakes Funding

Great Lakes Navigation System Actual and System Needs

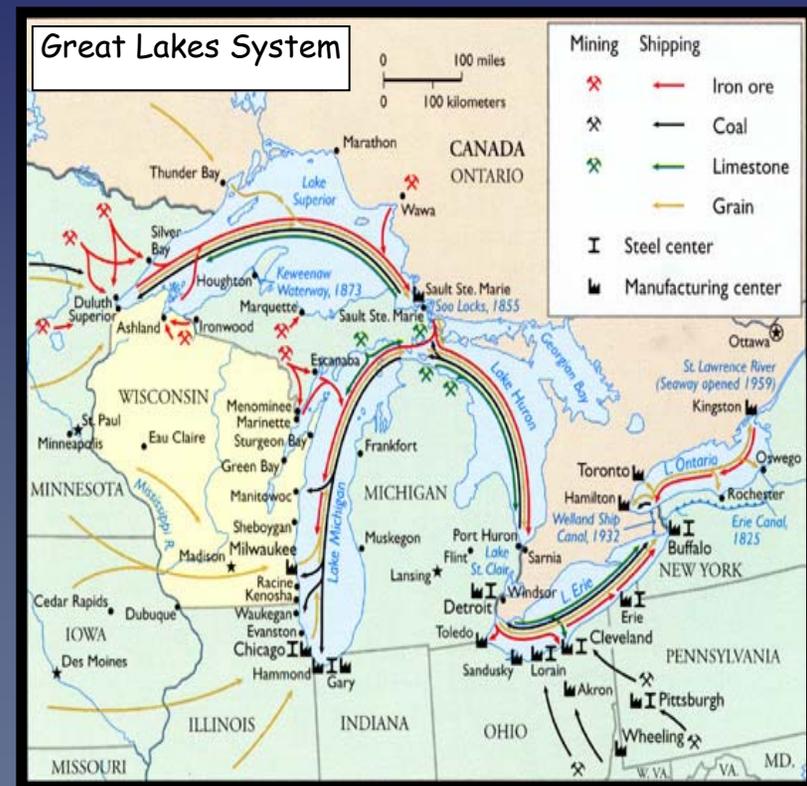




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Five Year Development Plan

- O&M, CG & GI
- There are large system needs that have dramatic impacts
 - Indiana Harbor CDF (\$40M)
(followed by m/d)
 - Soo Replacement Lock (\$25M)
 - Ashtabula Harbor (\$12.0)
 - Cleveland Harbor CDF (\$70M)
 - Poe modernization initiative





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Project Fact Sheets

- Concise information on each harbor
- We will continue to refine the information with your help



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Great Lakes
Navigation System

Milwaukee Harbor, WI

Harbor Features

- Located on the west shore of Lake Michigan about 85 miles north of Chicago, IL.
- Deep draft commercial harbor.
- Project depths – 30 feet in the approach channel, 28 feet in the entrance channel, 27 feet in a major portion of the south basin, 21 feet in the north basin.
- The project also provides for river channels with depth of 27 feet in the Kinnickinnic and Milwaukee Rivers, lakeward of the first railway bridges on each river, a depth of 21 feet on the Menominee River to the 25th Street, the South Menominee Canal to 13th Street, and Burnham Canal to 11th Street.
- 99th leading U.S. port with 3.2M tons of material shipped or received in 2004.
- Ranked 24th among the Great Lakes Harbors.
- Over 21,000 feet of structures including breakwaters, piers and revetments.
- The Milwaukee Confined Disposal Facility is located within the harbor in the southwest corner.
- Major stakeholders include U.S. Coast Guard, Lake Carriers' Association, Ace World Wide, Cargill Salt, Charter Wire, CP Railway, Edward E. Gillen Co., Federal Marine Terminals, Inc., International Longshoremen's Assoc., Jacobus Co., Lafarge Corporation, Milwaukee Bulk Terminals, Lake Express Ferry Service, Milwaukee Intermodal Terminal, Milwaukee World Festivals, North American Salt Co., RSI Logistics, Specialty Restaurants Corp., St. Marys Cement, Support Terminal Services, U.S. Navy, Union Pacific Railroad Company, and Wisconsin Lake Schooner.

Project Needs

- Dredging is completed on a 3 to 4 year cycle and the harbor is currently in need of critical dredging.



- Navigation structures are primarily maintained by Government floating plant, and it is anticipated that one section of the breakwater will require major reconstruction.
- A Dredge Material Management Plan needs to be completed to document additional capacity needs in the CDF to support a combined Legacy Act project with the EPA and Port of Milwaukee.

Consequences of Not Maintaining the Project

- Significant loss of jobs both locally and regionally.
- Light loading, loss of between 1 and 2 feet of channel depth results in increased transportation costs of between \$900,000 and \$2,200,000 annually.

Transportation Importance

- Major receiving and shipping port on the Great Lakes.
- Commodities include non-metal minerals, coal, corn and soybeans, cement and concrete, sand and gravel, and iron and steel products.
- Transportation hub for car ferry service crossing Lake Michigan, and a new terminal for cruise ships.
- The port generates revenues of \$30M annually and directly supports 1,000 jobs.



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**U.S. Army Corps of Engineers Fiscal Year (FY) 2007 and 2008
Milwaukee Harbor, WI - Project Needs and President's Budget (\$1,000)**

Work Package	FY07 Need	FY07 Budget	Δ	FY08 Need	FY08 Budget*
Operations	176	176		179	
<u>CDFs</u>	230		230	3,000	
Maintenance Dredging	770		770	840	
Structures	490		490	850	
Environmental Activities					
TOTALS	1,666	176	1,490	4,869	

* FY08 President's Budget will not be available until February 2007



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Project Fact Sheets

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The port generates revenues of \$80M annually and directly supports 1,000 jobs.



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Questions

Presentations and meeting information will be
available at:

www.lre.usace.army.mil/greatlakes/navigation