

Great Lakes Navigation Stakeholder Meeting

Shallow Draft Harbor Needs & Issues

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US Army Corps of Engineers
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Meeting Agenda

Welcome; Introductory Remarks

LTC Dennis Sugrue

Self introduction of all participants

All

Shallow Draft Harbor Funding & Needs

Marie Strum

- **Funding Process and Trends**
- **2016 Accomplishments**
- **2017 Program Summary**
- **2018 Budget Status**
- **Water Level Impacts**
- **Funding Alternatives**

Capitol Hill Update

Congressional Staff

Stakeholder Feedback—Open Discussion

All



Federal Budget Process

- The Corps submits budget requests for all federal harbors (commercial and recreational) with operation & maintenance needs
- With the limited funding available, operation and maintenance funding for deep draft navigation projects usually takes priority over shallow draft/recreational harbors
- Subsistence harbors and harbors that support ferries, commercial fishing or the US Coast Guard are given a higher priority than strictly recreational harbors.



Corps Efforts on Recreational Harbors

- Conditions surveys of all recreational harbors each year; results posted on web
- Structure inspections
- Updating signs
- Minor repairs that affect safety – for example, safety ladders
- Occasional technical assistance/advice



FY 16 Great Lakes Navigation Program

\$142.8M Great Lakes Navigation Operations & Maintenance

Key Items

\$59.2M in Dredging (30 projects – 4.4M cubic yards)

\$8.6M in Dredged Material Management

\$14.6M in Soo Asset Renewal

\$2.3M Chicago Lock Repairs

\$7.9M Structure Repair by Contract



FY16 Corps Funding Status

- Congress passed the FY16 Consolidated Appropriations Act; enacted Dec 18, 2015
- The FY16 Appropriations bill included FY16 President's Budget with some adjustments, plus additional O&M funds for ongoing work – to be allocated by USACE HQ

Additional Funding for Ongoing Work

- Navigation Maintenance \$23.5M
- Deep-draft harbor and channel \$250M
- Small, remote, or subsistence nav \$48M



FY16 Corps Additional Funding Criteria

- Criteria established by Congress for allocation of national FY16 O&M funding:
 - Complete ongoing work to maintain authorized widths and depths
 - Particular emphasis on places with a Coast Guard presence
 - Enhance national, regional, or local economic development
 - Promote job growth or international competitiveness
 - Risk of imminent failure or closure
 - Tonnage, exports, value of cargo



FY16 Projects Funded from Additional Funds for Ongoing Work (\$32.9M)

\$14M Dredging

Additional funds for:

- Duluth, MI
- Green Bay, WI
- Saginaw, MI
- Calumet, IL

New funding for:

- Alpena, MI
- Lorain, OH
- Fairport, OH
- Monroe, MI
- Manistique, MI

\$10.9M Soo Asset Renewal

\$1.3M Chicago Lock Repairs

\$6.2M Structure Repairs (Ludington, Muskegon, Waukegan,
Sandusky, **Barcelona**, Grand Haven)

Funding was received for 1 recreational harbor (Barcelona)



FY 17 Great Lakes Navigation President's Budget

\$102.8M Great Lakes Navigation Operations & Maintenance

Key Items

\$38.4M in Dredging (20 projects – 3.2M cubic yards)

\$8.2M in Dredged Material Management

\$5.9M in Soo Asset Renewal



FY17 Corps Funding Status

- Awaiting FY17 Appropriation
- Funding based on FY17 President's Budget at this time

If Congress passes an Appropriations Bill, additional funds could be allocated to projects across the country. Funding amounts included in House and Senate markups:

Additional Funding for Ongoing Work	House	Senate
- Navigation Maintenance	\$25.3M	\$23.5M
- Deep-draft harbor and channel	\$258M	\$250M
- Small, remote, or subsistence nav	\$50M	\$48M

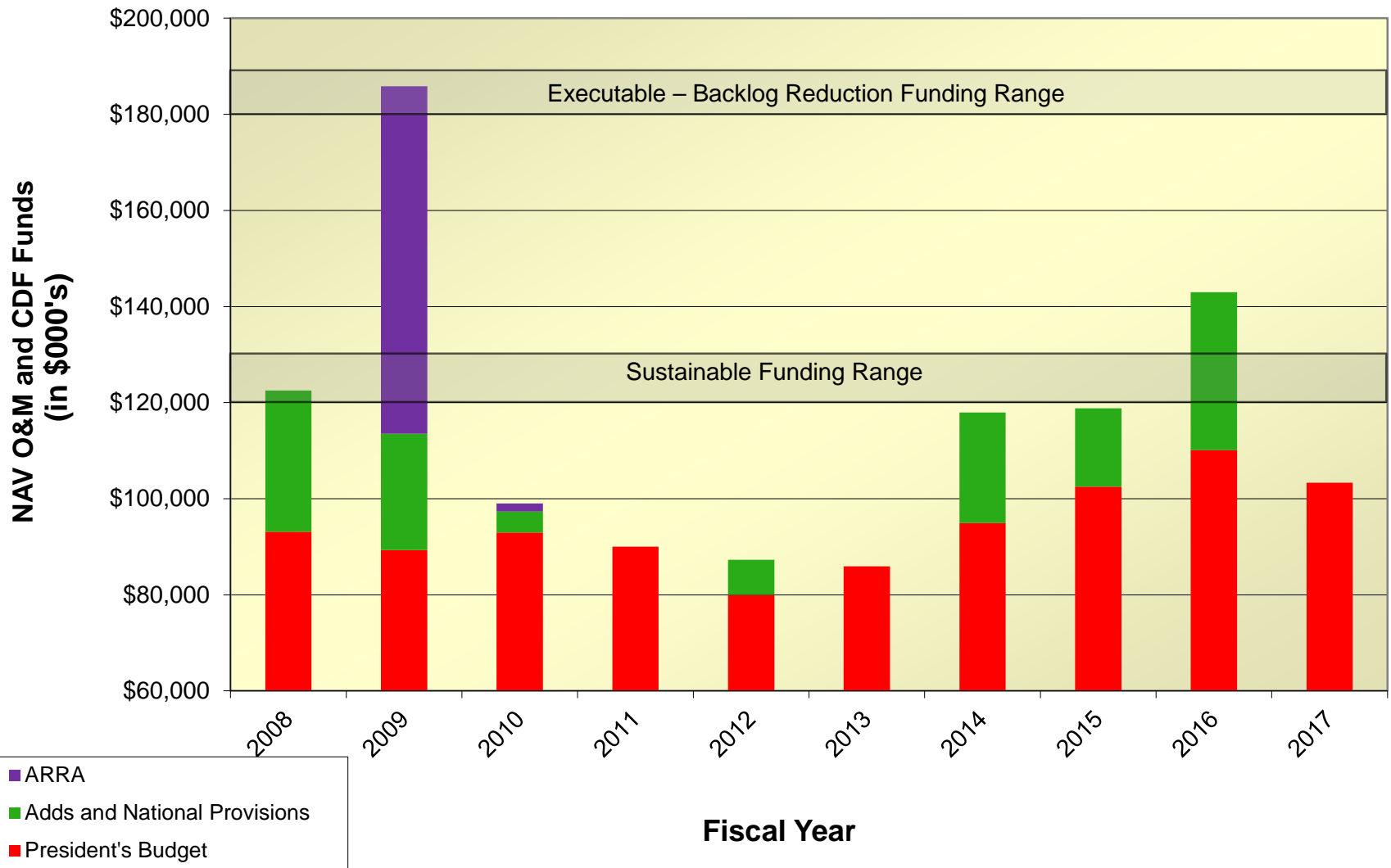


FY17 PBUD Dredging Projects

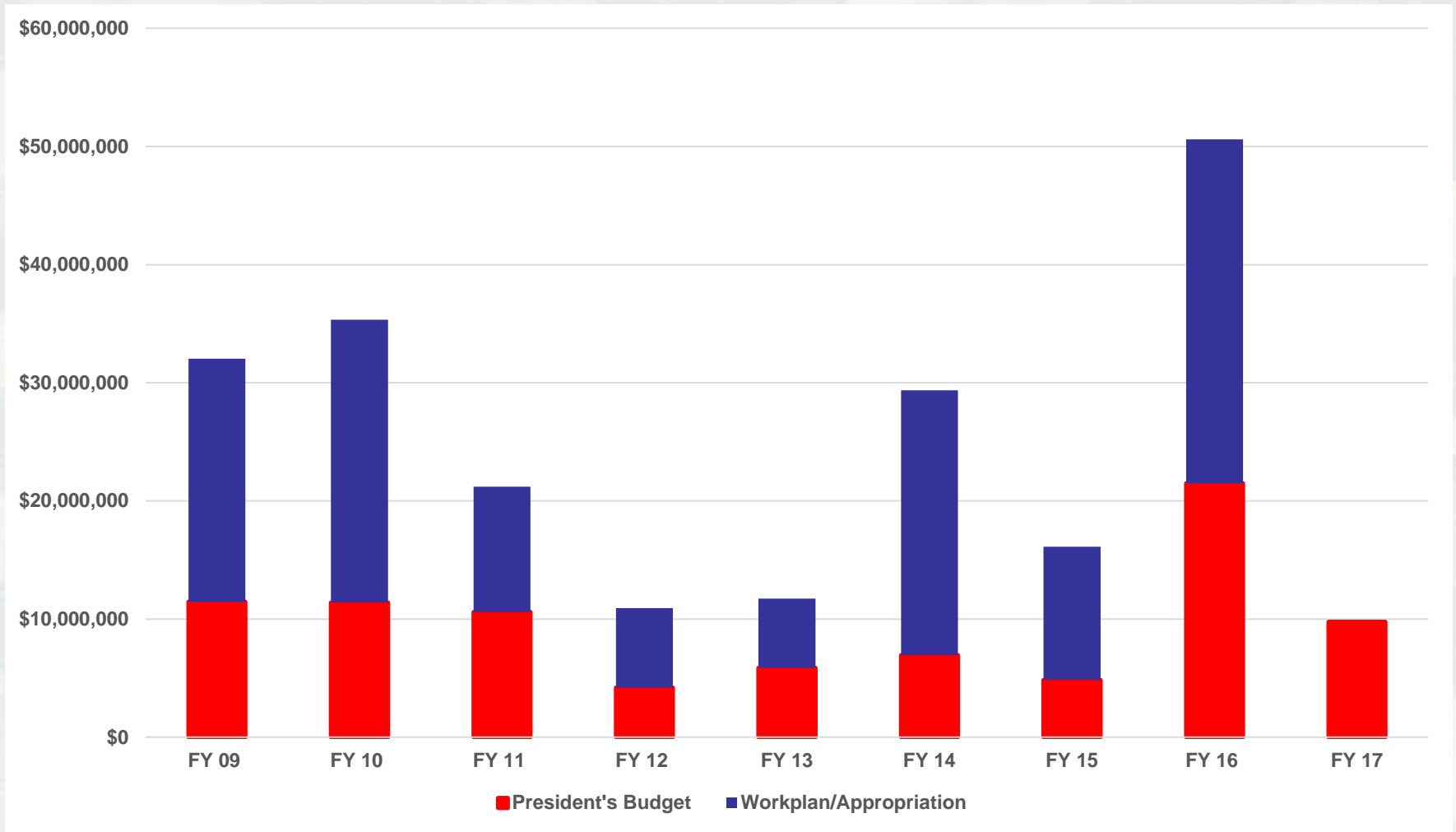
- Duluth-Superior
- Detroit River
- Green Bay
- Ashtabula
- St. Joseph
- Holland
- Grand Haven
- Burns Waterway
- Buffalo
- Keweenaw Waterway
- Indiana Harbor
- Sandusky
- Channels in Lake St. Clair
- Saginaw River
- Toledo
- Cleveland
- Calumet
- Waukegan
- Sturgeon Bay
- Fairport
- Port Wing – with emergency set-aside funding



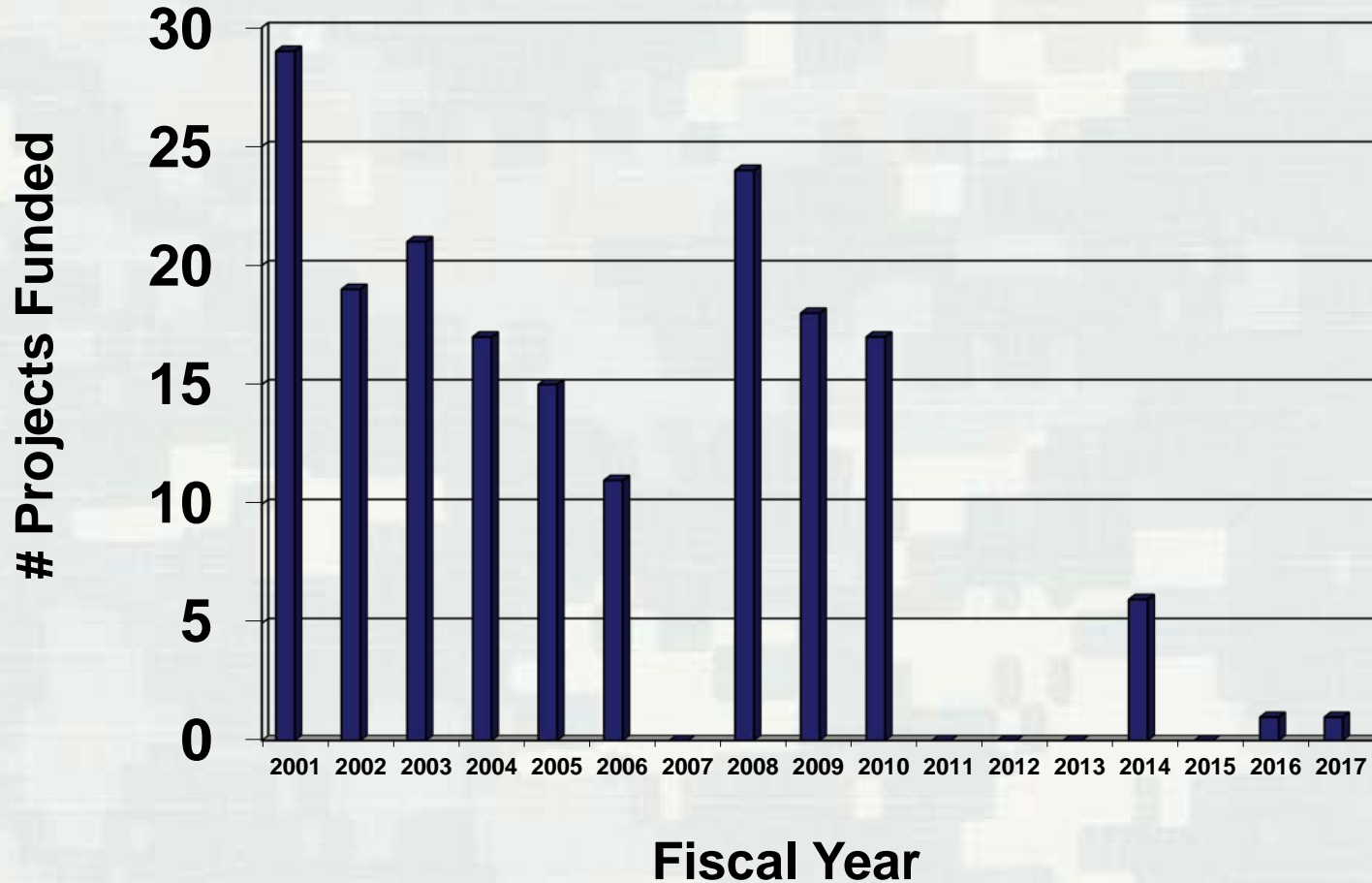
GL Navigation Funding History



Historical Funding Great Lakes Low Use Projects (<1M Tons)



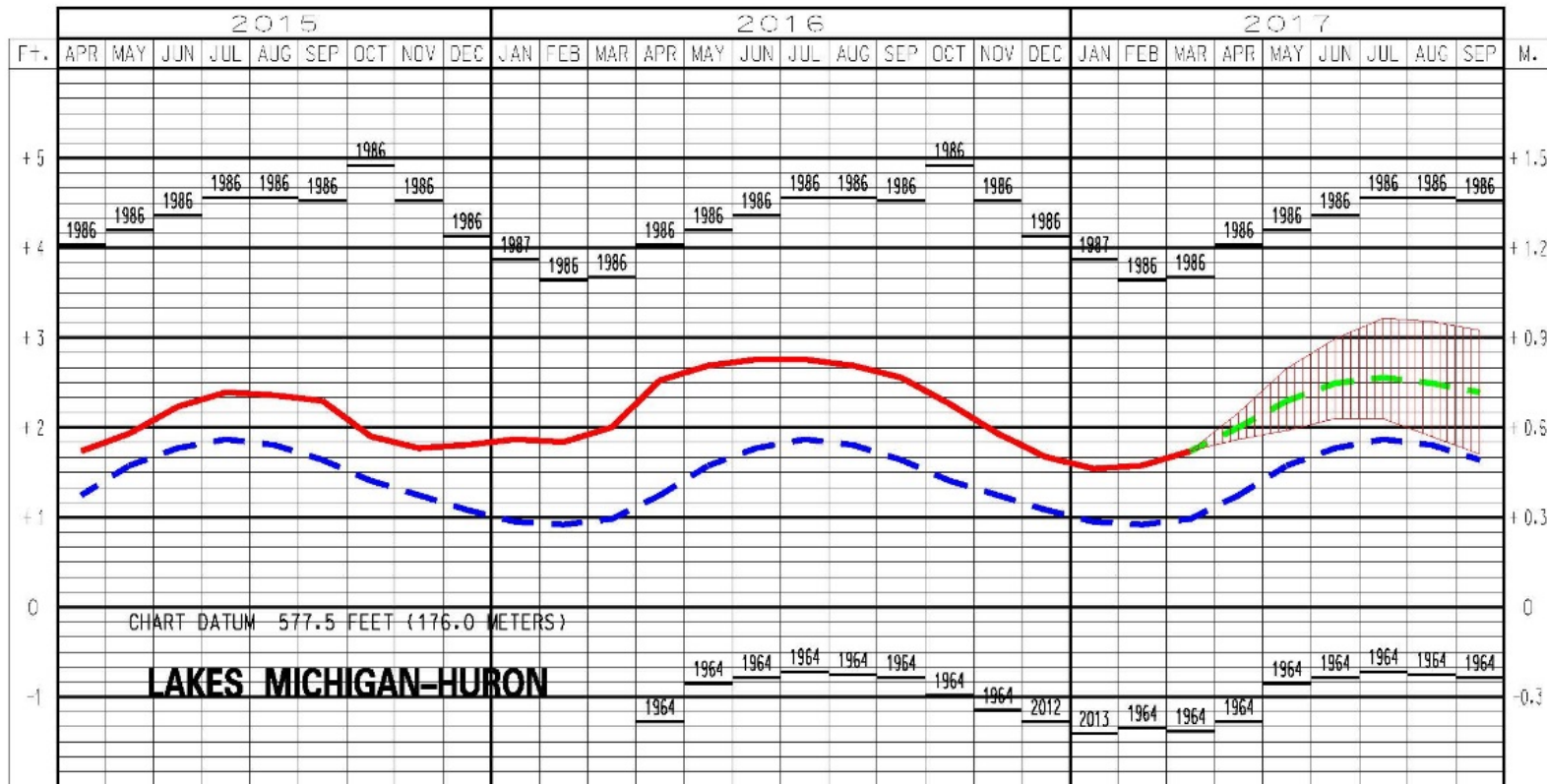
Historical Shallow Draft/Recreational Harbor Funding



Great Lakes Water Levels



LAKES MICHIGAN-HURON WATER LEVELS - APRIL 2017

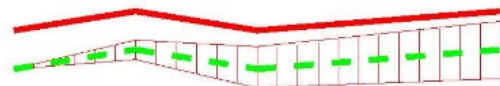


LEGEND

LAKE LEVELS

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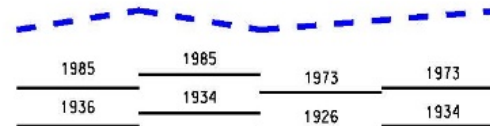
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AVERAGE **

MAXIMUM **

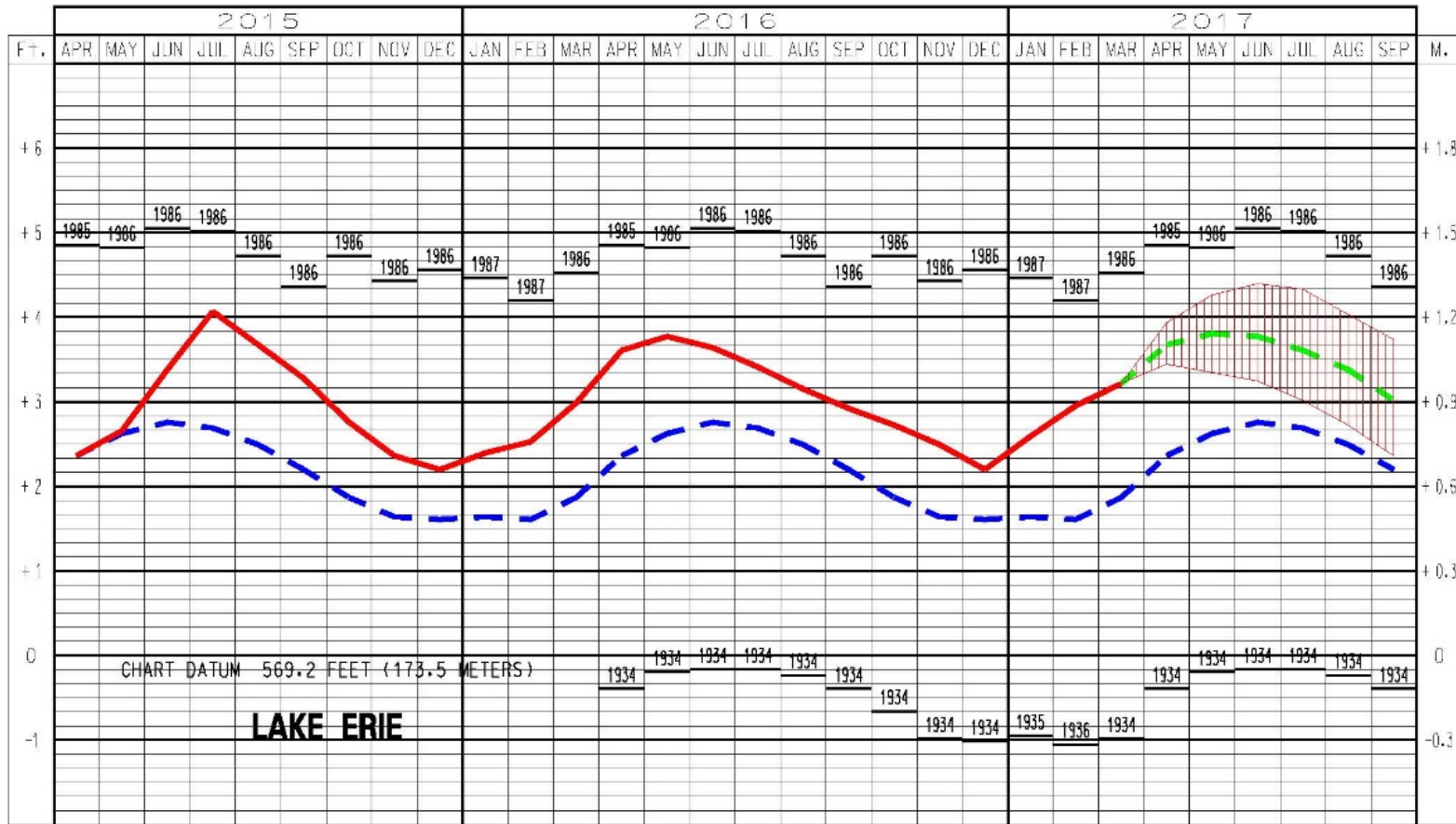
MINIMUM **



** Average, Maximum and Minimum for period 1918-2016



LAKE ERIE WATER LEVELS - APRIL 2017

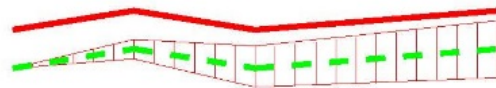


LEGEND

LAKE LEVELS

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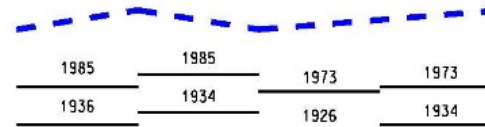
PROJECTED



AVERAGE **

MAXIMUM **

MINIMUM **



** Average, Maximum and Minimum for period 1918-2016



Water Levels on Great Lakes

- All of the Great Lakes are currently above average and similar to their water levels of a year ago.
- Erosion of coastal bluffs has increased over the past few years with the higher water levels after nearly a decade of low water and apparent stability.
- Reports of significant erosion on Lakes Superior and Michigan



Navigation Structure Repairs



Two Rivers, WI – Ice damage to south breakwater

Barcelona – Complete Breach of Lakeside Structure



Alternatives to Corps Funded Maintenance

- There are two primary methods for local communities to accomplish dredging outside of the traditional Corps dredging process:
 - Local community signs an agreement with the Corps to provide funding to the Corps. The Corps accomplishes the dredging including design, contractor acquisition, and dredging quality assurance.
 - Local community obtains a permit from the Corps and the state. The Corps will grant a permit good for 10 years. Must check state requirements.



Contributed Funds Agreements

- Local community contributes funds to the Corps to conduct the dredging or structure work on the federal project.
- Previous experience – agreements have taken a very long time
- New model agreements expedite process to under 120 days
- Working on blanket agreement with State of Michigan for maintenance actions at federal shallow draft harbors in the State.
- Blanket agreement will expedite the process of accepting contributed funds in the future should state funding become available.



Recreational Harbor Success Stories

- Port Washington
 - \$950K funded in FY14 Corps budget
 - City obtained \$1M in funding from grants for work in 2016 through contributed funds agreement
 - City of Port Washington working on obtaining additional funding
- Portage Lake
 - Contributed funds agreement (\$800K) in place for design and limited repairs to revetment
- Barcelona Harbor, NY
 - Funds received in the FY16 workplan to begin repairs on structure damaged in late 2015
- City of Buffalo
 - Bird Island structure/walkway repair
 - Obtained grant funds and provided to Corps through contributed funds process
- State of Michigan
 - Blanket contributed funds agreement being finalized



Harbor Fact Sheets



US Army Corps
of Engineers.



Barcelona Harbor, NY

Harbor Features

- > Located on Lake Erie in the town of Westfield, Chautauque County, New York.
- > Authorization: River & Harbor Act of 1945
- > Shallow draft recreational harbor
- > Project depths are 10 feet in the entrance channel and 8 feet in the harbor basin.
- > The harbor is protected by the east and west breakwaters with a total length of 1,730 feet.
- > Other features include public transient slips and launching facilities
- > Major stakeholders include the town of Westfield, one private marina, commercial and charter fishing interests, a charter diving operation and the recreational boating community.



Project Requirements

- > The harbor typically requires dredging every five to ten years.
- > Sandy supplemental funded dredging of approximately 71,000 cubic yards of material from storm impacted harbor areas was completed in summer 2014.
- > A section of steel sheet pile along the lakeside of the west breakwater unexpectedly failed in late October/early November 2015 resulting in a loss of fill material and inadequate support for the concrete cap. A subsequent storm in November 2015 resulted in the loss of the concrete cap and complete breach of the structure. Emergency repairs are required to repair the breach and prevent further unraveling of the structure. Repairs are planned for FY16.

Consequences of Not Maintaining the Project

- > Potential safety issues for recreational boating community
- > Potential functional loss of Harbor of Refuge
- > Negative economic impacts, locally and regionally

Transportation Importance

- > Harbor of Refuge
- > Supports 9 charter fishing boats generating approximately \$73,500 in net income annually. Also supports 2 licensed commercial fishing boats and a chartered diving operation.

U.S. Army Corps of Engineers Fiscal Year (FY) 2015, 2016 and 2017
Barcelona Harbor, New York - 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 - Primary						
E&D/Coast West Breakwater Repair			1,900	650	650	
Sandy Supplemental Maintenance Dredging						
TOTALS	0	0	1,900	650	650	0

Congressional Interests

- Representative Tom Reed R-NY-23
- Senator Kirsten Gillibrand D-NY
- Senator Charles Schumer D-NY

Harbor Fact Sheets are Key Communication Tool

- Identifying the economic and social impacts related to maintaining the authorized project – jobs, local, and regional economic impacts
- Identify other critical factors – subsistence harbor, support to Coast Guard, what infrastructure protects
- Project requirements – dredging and structural repair needs



Stakeholder Involvement

- ✓ We need your input on critical system requirements at your harbor or project
- ✓ Operations Chiefs from each District are available any time to discuss your particular issues and concerns
- ✓ Webpage is an important mode of communication: meetings, presentations, fact sheets
- ✓ Updated Fact Sheets with FY16 appropriation and FY17 President's Budget are on our website
- ✓ Fact sheets will be updated in May upon release of Pres Bud

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



Stakeholder Input



Key Great Lakes Contacts

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Questions?

