Regional Overview: Dredging, NESP and Infrastructure

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Director of Programs
Mississippi Valley Division
Mississippi River Commission
Vicksburg, Mississippi
Mississippi Valley Division (MVD)

1 of 9 Division Commands
6 District Offices
4,500+ employees
Regional Dredging Overview

FY20 National Dredging Volume (264.5 MCY)

- Mississippi Valley Division (40.3%)
- South Atlantic Division (26.9%)
- North Atlantic Division (11.9%)
- Southwestern Division (11%)
- Rest of USACE (9.9%)

Dredging Volume (FY 20)
- MVD – 106.6 million cubic yards (40.3%)
- Total U.S. – 264.5 million cubic yards

Dredging Costs (FY 20)
- MVD – $365.6 million (15%)
- Total U.S. – $2,452 million

MVD Dredge Fleet
- Wheeler – Hopper – MVN
- Potter – Dustpan – MVS
- Hurley – Dustpan – MVM
- Jadwin – Dustpan – MVK
- Goetz – Cutterhead – MVP

Plus 20 – 30 dredging contracts with private sector per year

5 YEAR AVERAGE
BY YARDAGE (2016-2020)

New Orleans District 88%

5 YEAR AVERAGE
BY COST (2016-2020)

New Orleans District 72%
Challenges: Dredging Cost Growth
Regional Shallow Draft Challenges

Dynamic System

Mississippi River at Vicksburg, MS
From 01/01/2011 to 12/31/2012

Stage in Feet

65
40
15
0
-10

Historic Normal Stage
Current Stage
Record High 67.1
Flood Stage: 43
Record Low: 7.0
Gage Zero = 48.23 ft. NGVD29

Harbor Dredging

Dredge Jadwin

Dredge Material Management Plans, Including
Federal Standard

Lower Pool 8 - 2015

Lower Pool 8 - 2021

Victoria Bend
Winchester
Redman Bar
Josie Harry - Armstrong
Stack Island
Key Regional Highlights

Navigation and Ecosystem Sustainability Program (NESP)
✓ Delivers a More Reliable, Resilient and Efficient System
✓ Increases Capacity and Provides Redundancy
✓ Ready to Compete for Construction New Start
✓ Initial Priorities: L&D 25; Alton Pool & Twin Islands Ecosystem Work
✓ Creates Up to 10,000+ High Paying Construction Jobs

Feel Free to Check Out the March 19, 2021 WCI Capitol Currents Newsletter for More About NESP…

Or You Can Go To: https://www.mvr.usace.army.mil/Missions/Navigation/NESP.aspx

Gulf Regional Dredge Demo Prog
✓ Fully Funds Deepening of Mississippi River Deep Draft Channel to 50’
✓ Deepening Initiated Sep 2020
✓ Improves Efficiency and Makes Midwest Grain More Competitive in Global Markets
✓ Should Expand Midwest Catchment Area for Waterborne Movement of Grain
✓ Multi-Year Construction and Maintenance Funding
✓ Enables More Innovative Dredge Acquisition and More Efficient Project Bundling

Illinois Waterway Consolidated Closure
✓ Completed On Schedule in Oct 2020, within Budget
✓ Significantly Upgraded and Improved Aging Locks
✓ Worked at 5 Sites Concurrently, with 4 Locks Requiring Dewatering
✓ Navigation Industry a Critical and Vital Partner for Success
✓ Next Consolidated Closure Window Planned for 2023
Regional Deep Draft Challenges

High Water Shoaling
Mississippi River, Baton Rouge to the Gulf of Mexico

Increasing Ship Sizes

Natural Disaster

Disposal of Dredged Material…
More Beneficial Use Opportunities
Unscheduled Spike in 2018/2019 = Effects of Extreme High Water and Ice Event Impacts to Mechanical Machinery

Impact of Significant Additional Congressional Investment

National Navigation Lock Portfolio Service Trends
Main Chamber Unavailable Hours
(Events Longer Than 1 Day)
## DRSAA – Disaster Relief Supplemental Appropriations Act, 2022
($5.711B)

- **Public Law 117-43, Enacted 30 Sep 2021**
  - Hurricane Ida Eligibility: Four (4) Ida Impacted States (LA, PA, NJ, NY)
  - Other States Unspecified; Heavy Flood Risk Management (FRM) Focus

- **Investigations:** $100M
  - Hurricane Ida impacted states
  - Completion at 100% Federal cost

- **Construction:** $3B
  - $1.5B **Must** Go to Hurricane Ida Impacted States
  - Section 902 of WRDA 1986 Not Applicable
  - Complete “Ongoing” Projects at 100% Federal
  - Up to $65M for Flood Risk Management CAP Projects

- **Mississippi River & Tributaries:** $868M
  - Of which $500M Shall be for Construction in LA
  - Section 902 of WRDA 1986 Not Applicable
  - Ongoing Construction 100% Federal

- **Operations and Maintenance (O&M):** $887M
  - Dredge Fed Navigation Projects & Repair Damages Caused by Natural Disasters

- **Flood Control and Coastal Emergencies (FC&CE):** $826M
  - Unspecified - Shore Protection Projects Shall Restore Such Projects to Full Project Profile at Full Federal expense

- **Expenses:** $30M

## Senate Infrastructure Investment and Jobs Act Proposal
($17.1B)

- **Investigations:** $150M
  - $30M for Comprehensive Plans for Water and Related Resources
  - $45M for Flood Plain Management Services Program
  - $75M to Complete OR Initiate and Complete Authorized Studies
    - $30M to Implement Section 118 Pilot Program

- **Construction:** $11.615B
  - $1.5B for Major Rehabilitation, Construction, and Activities for Rivers and Harbors
    - $250M for Remote and Subsistence Harbors
    - **And Up to $250M** for Federal Breakwater/Jetty Projects (Sec 1104 of WRDA 2016)
  - $200M for Environmental Infrastructure
  - $2.5B for Inland Waterways Projects
  - $465 million for Small Continuing Authorities Projects (CAP)
  - Of which $115M for CAP Sec 206 Projects to Restore Fish and Wildlife Passage
  - $1.9B for Aquatic Ecosystem Restoration Projects
    - Of which $1B Shall be for Multi-Purpose Projects
  - $2.55B for CSRM or HSDR in States Impacted by Fed Declared Disasters Over Past 6 Years
    - Of which $1B Shall Be for Multi-Purpose Projects that Include FRM benefits; $200m Shall be for Shore Protection Projects

- **Mississippi Rivers & Tributaries:** $808M
  - Of which $500M Shall be for Construction in LA
  - Section 902 of WRDA 1986 Not Applicable
  - Ongoing Construction 100% Federal

- **Operations and Maintenance (O&M):** $4.0B
  - Dredge Fed Navigation Projects & Repair Damages Caused by Natural Disasters

- **Flood Control and Coastal Emergencies (FC&CE):** $826M
  - Unspecified - Shore Protection Projects Shall Restore Such Projects to Full Project Profile at Full Federal expense

- **Expenses:** $30M

- **WIFIA:** $75M for Non-Federal Dam Safety Projects
  - $64M for Loans
  - $11M for Administrative Expenses
Thank you!