The Ohio River Basin: Aging Infrastructure

Rick Morgan

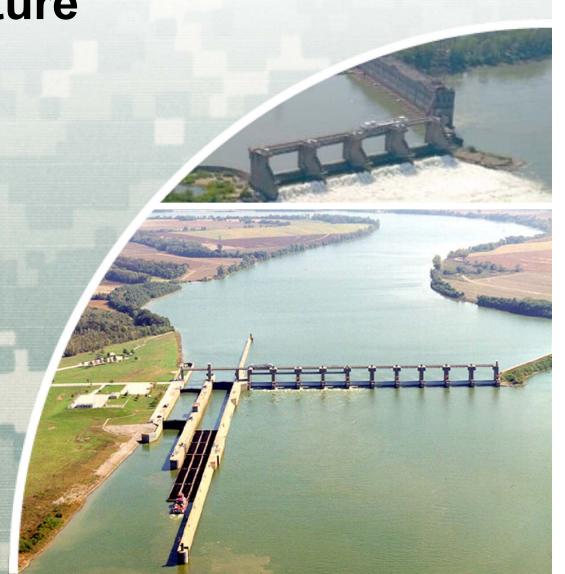
Operations Chief,

Louisville District Corps of Engineers

April 28, 2010



US Army Corps of Engineers
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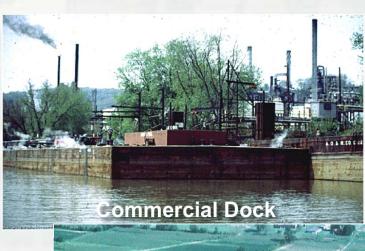
Ohio River Navigation System

Commercial Navigation

- ◆ 20 Navigation Locks & Dams
- Energy Conservation
- Reduced CO2 Emissions
- Over \$2 Billion Annual Savings
- Over \$100 Billion Invested in Electric Utility
 Construction and Industrial Capital Investment

Water Supply

- Municipal, Industrial, Electric Utilities
- Recreation Tourism
 - Boating, Swimming, Fishing, Camping
- Shore-side Development
 - Ports, Docks, Public/Private Terminals





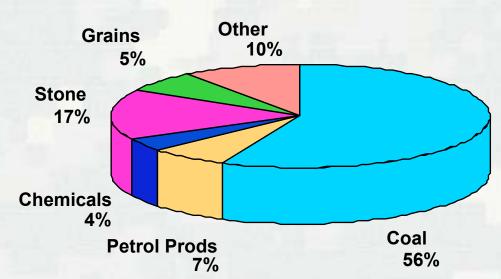


Ohio River Navigation System as a National Asset

Important Nationally

Employment - 80,000 Jobs
Business Activity - \$40.8 Billion
Tax Revenue - \$3.0 Billion

148 Million Tons of Coal



122 Million Tons of:

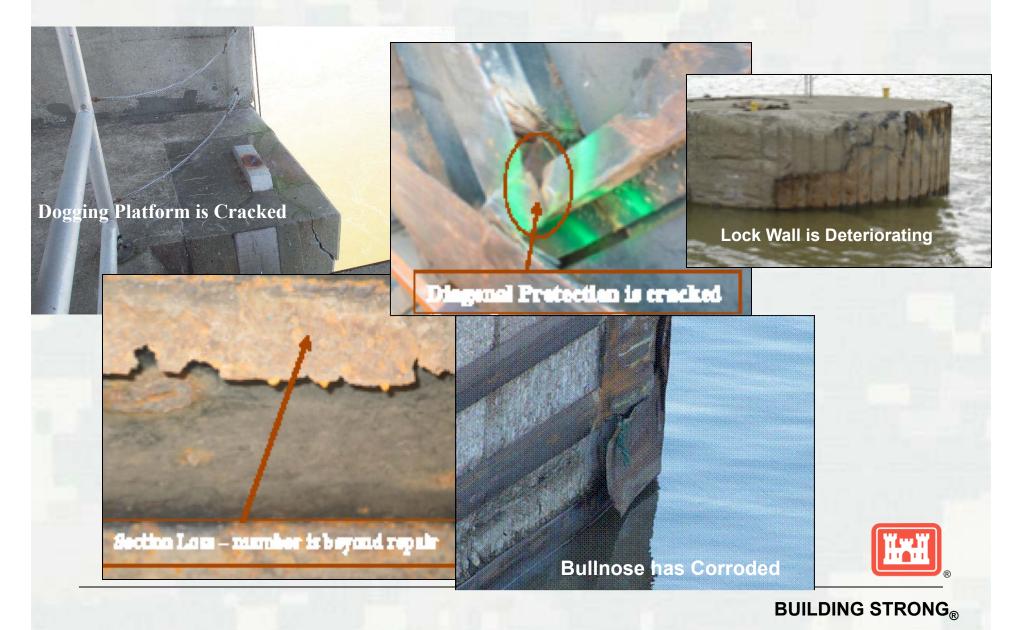
- Stone
- Petrol Products
- Chemicals
- Grains
- "Other"

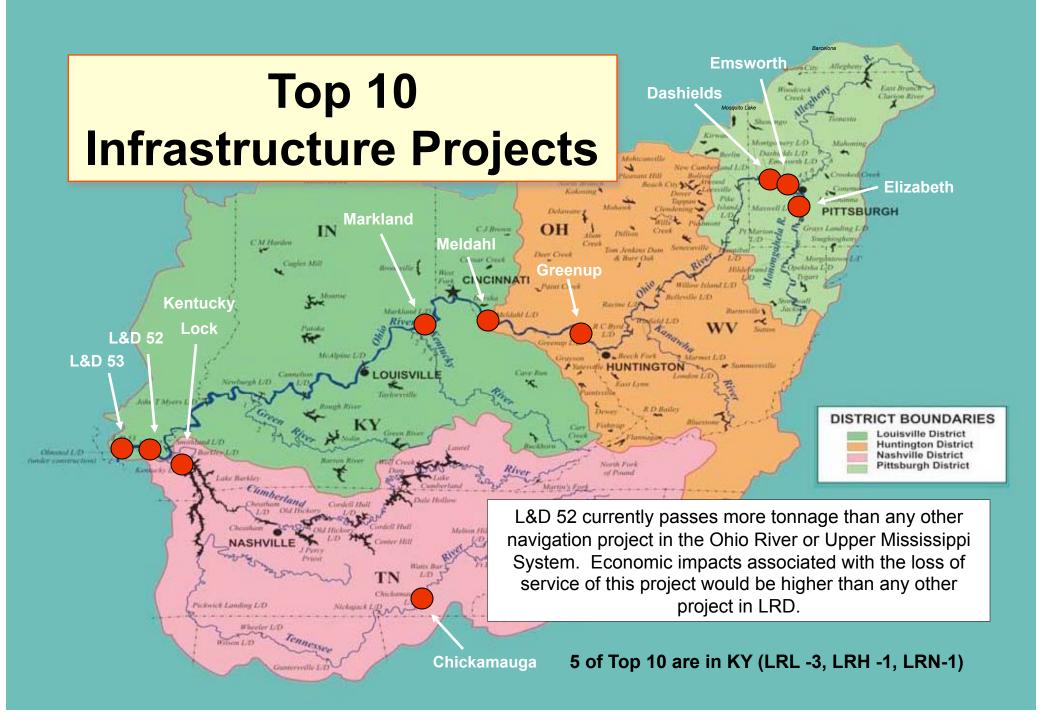


McAlpine L&D



Aging Ohio River Navigation Infrastructure





Markland 1200' Lock



Greenup Miter Gate





Miter Gate is Resting on Sill



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Ohio River Basin Comprehensive Study

- Comprehensive Assessment of Water Resources Opportunities and Needs
- Aging infrastructure Average 50 Years
 - Flood control, ecosystem restoration, water supply, recreation, and water quality projects

 - > 83 flood control dams
 - Increasing O&M funding demands
 - > Project deterioration
 - Increased maintenance needs
 - Increasing demands on limited water resources



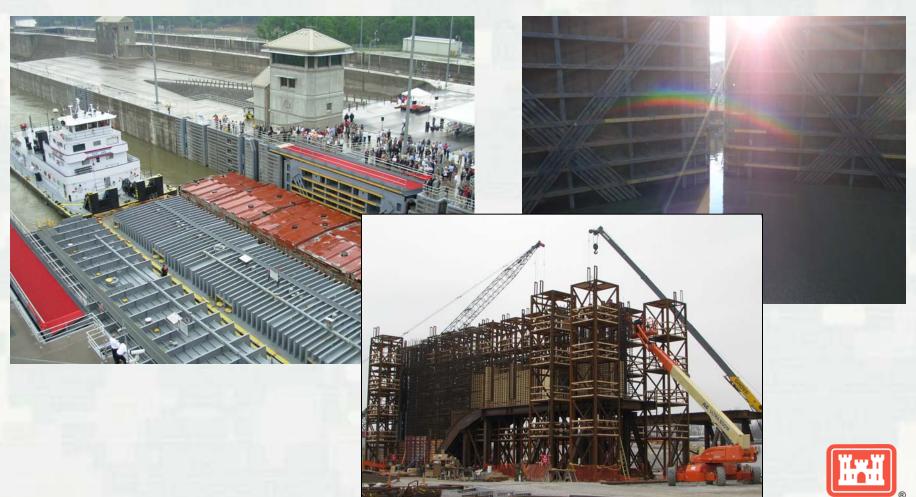


Website: http://wwworboutreach.com





Recent Civil Works Accomplishments/Activities





Facilitating Future Infrastructure Re-Investment

Goals of a Strategic Infrastructure Recapitalization Effort

- 1. Create Long Term Infrastructure Investment Plan (20 + Years)
- 2. Establish National Criteria for Ranking Projects
- 3. Outline Prioritized List of Projects to Receive Capital Improvements
- 4. Identify Realistic Investment Level Required to Maintain a Reliable Infrastructure System
- 5. Implement Project Delivery Process Improvements to Insure Projects are Completed on Time and within Budget
- 6. Recommend Revenue Sources
- 7. Develop Implementation Guidance for Sustainment of Investment Plan



Questions/Discussion



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