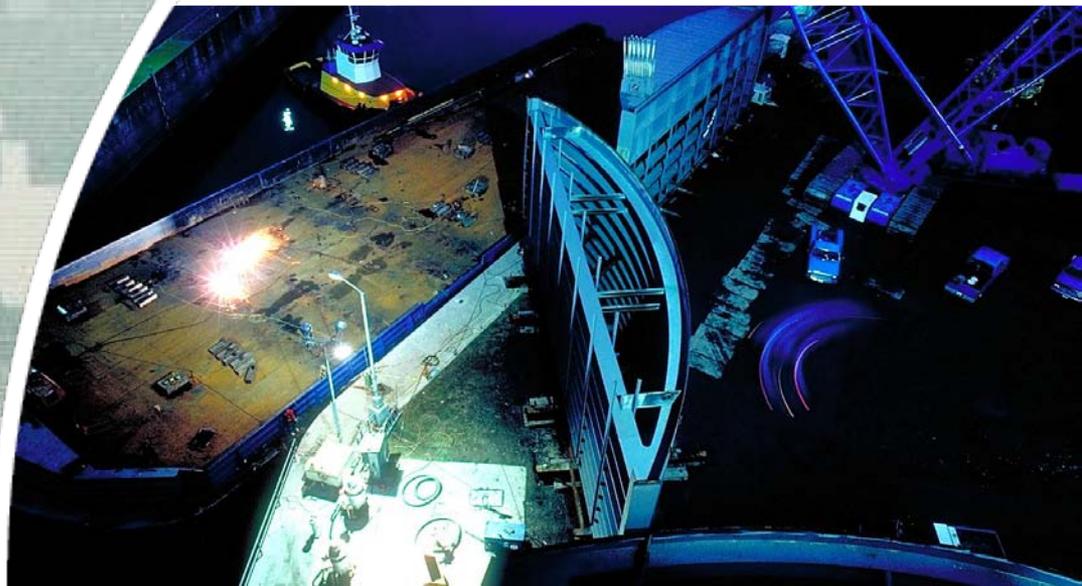


IMTS Operational Condition Assessments

Briefing for IW Users Board #64

Jim Walker, HQ

October 20, 2010



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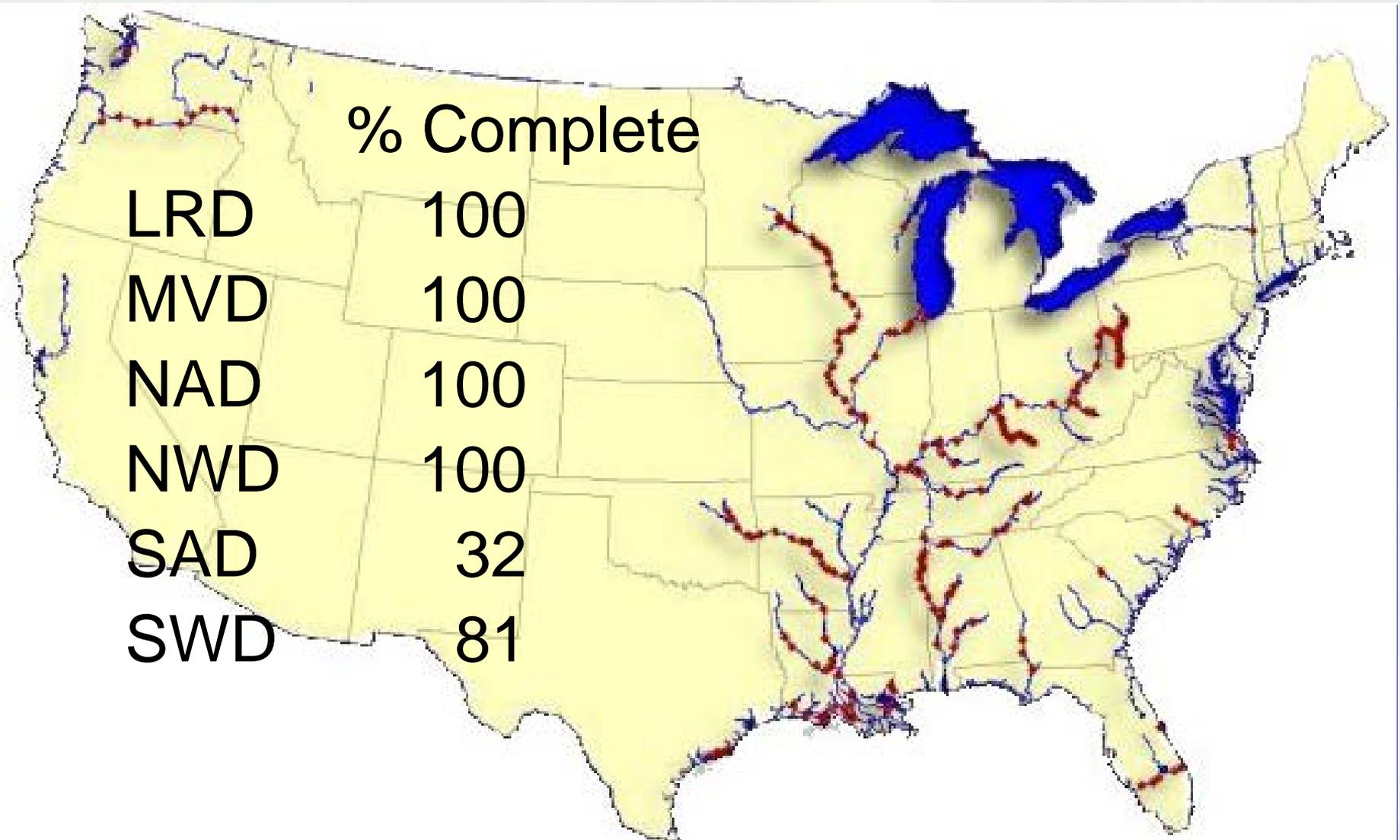
US Army Corps of Engineers
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Background

- Nav Lock OCA's briefed at IWUB 62 meeting, Dec 2009
- Consistent national approach to evaluate over 300 components at each nav lock
- Each component rated A, B, C, D or F
- Evaluate all 241 USACE nav locks
- Complete the evaluations by 30 Dec 2010
- Use the results to inform the FY13 budget



OCA Evaluation Status



Nav Lock OCA's - Components

8 Major Component Groups

1. Lock Gates
2. Lock Structures
3. Fill/Empty Valves
4. Gate and Valve Operating Machinery
5. Gate and Valve Controls
6. Primary Electrical and Hydraulic Systems
7. Dam Structures
8. Dam Gates and Machinery



Preliminary Results

- Initial baseline effort
- Most components are in mid-range condition
- Validation of rating scale
- This is already having a positive effect by fixing low cost items as funds are available
- Expand to spare parts – inventory and condition



Funding

- Funds presently reside on River Systems and projects - no IMTS-wide O&M funding source
- Need to separately identify routine/annual O&M and non-routine O&M
- Need to strike the right balance between National IMTS and individual project efforts
- Districts need some flexibility to address changes in needs in the 2 years between budget development and program execution – stuff happens!



OCA Desired End State

- IMTS-wide consistent method used to evaluate component condition.
 - ▶ Engineering Rigor
 - ▶ Transparent, repeatable and auditable
- OCA data helps prioritize non-routine IMTS O&M investments



Example of OCA Data Use

- LRD has prepared a report, the Ohio River Miter Gates Replacement Program
- This report is shared for illustration purposes
- Feedback on this approach is welcome
- IMTS-wide OCA completion and funds availability will determine implementation



Bill Chapman Presents

LRD Miter Gate evaluation



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Next Actions

Teams working on...

- Transition from OCA component results to 'Risk of Failure'
- Grouping components for FY13 budget work packages
- Display OCA results
- Additional team w/stakeholders needed on strategic communication to explain 'Risk' – reliable IMTS but urgent maintenance needs



In the future ...

- After initial baseline evaluation in FY10, future OCA's will be combined with other inspections
- Enable other inspection efforts to directly link to budget prioritization process
- FEM deployment will collect data on components, enabling development of Failure Rate Curves
- Justify resources to enable IMTS to move from 'Fix as Fail' to 'Preventative Maintenance'
- Develop and implement OCA's for other Navigation and Civil Works business lines.



IMTS - Reliable, Efficient, Resilient



Questions/
Comments