

USACE Levee Safety Program

Committee on Levee Safety Kickoff Meeting

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Shared Risks. Shared Solutions

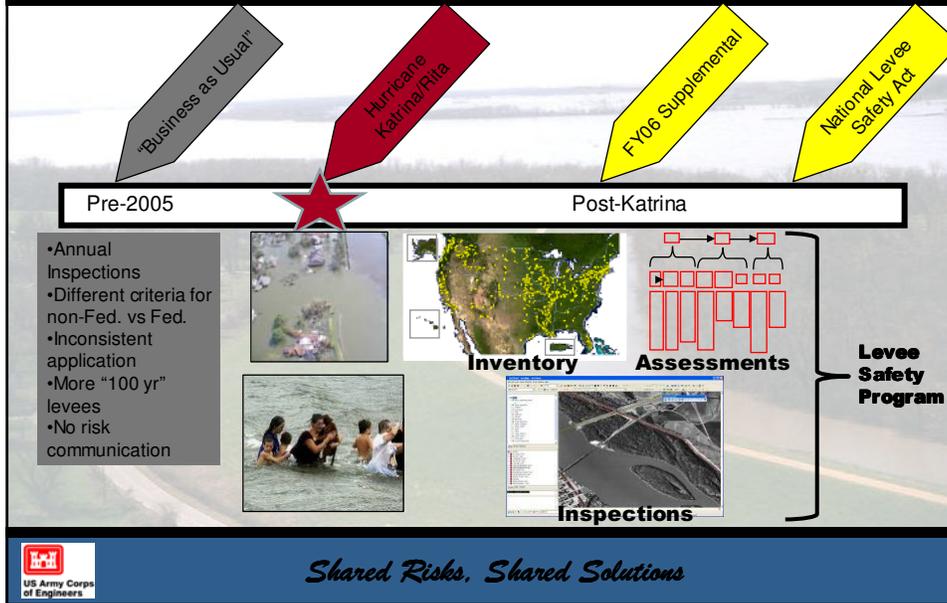
Topics

- Path to a Safety Program
- Mission
- Organization
- Inventory and Inspections
- Levee Certification
- Current Activities
- Challenges



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Path to a Safety Program



Levee Safety Program Mission



West Columbus, Ohio

Assess the integrity and viability of levees and recommend **actions** to assure that levee systems do not present unacceptable risks to the public, property, and the environment.

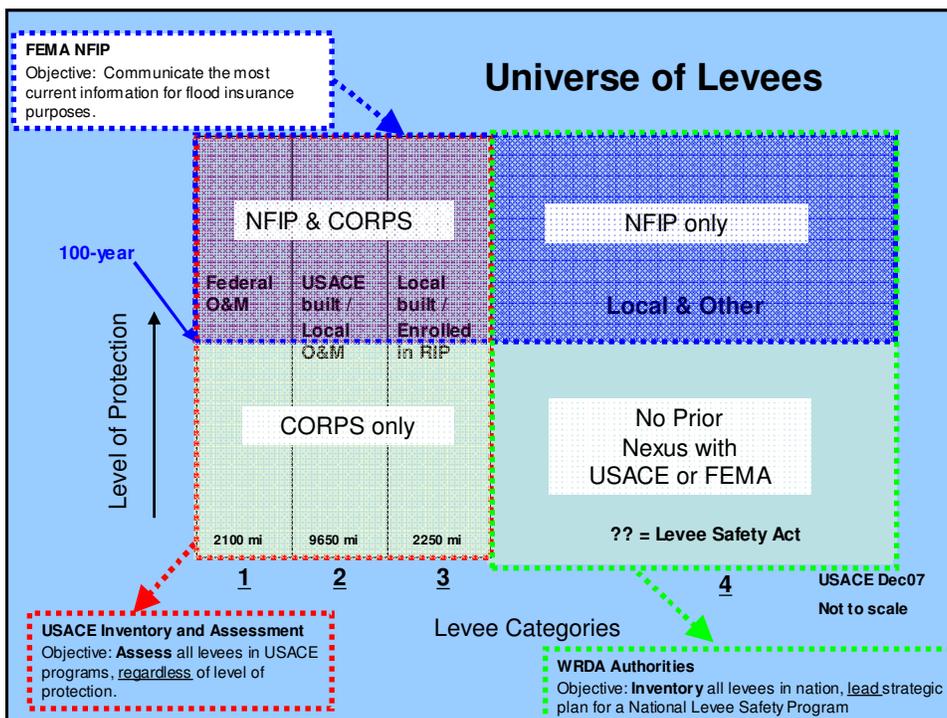
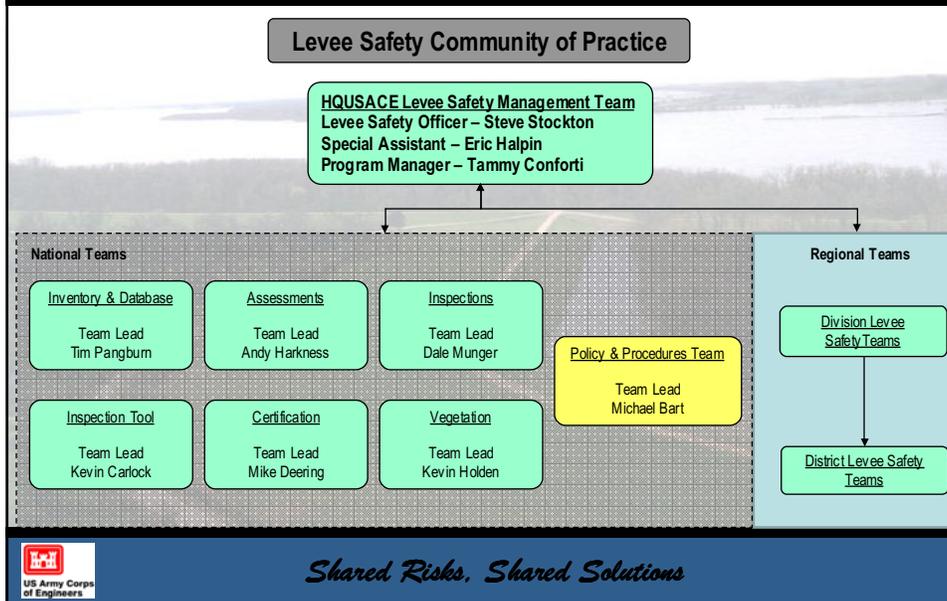
Program Objectives:

- Hold Public Safety Paramount
- Reduced Economic Impacts
- Maximize Cost Effectiveness
- Develop Reliable and Accurate Information
- Build Public Trust and Acceptance

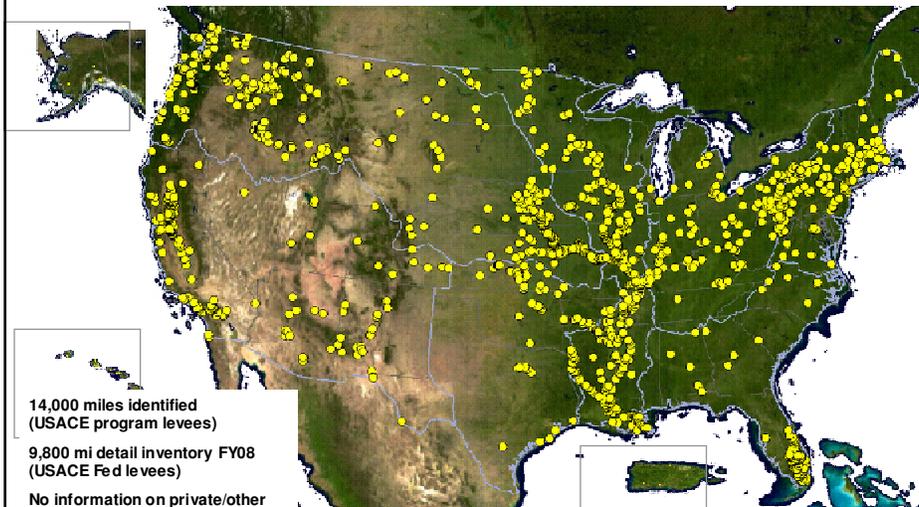


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Levee Safety Program Organization



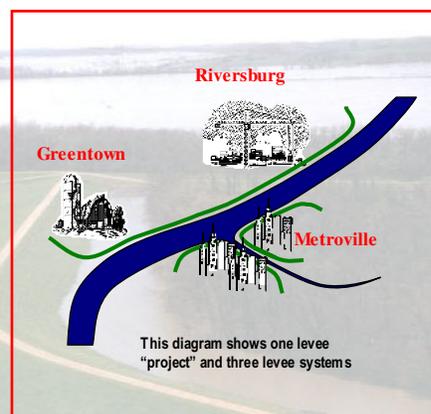
USACE Program Levees



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Levee System

Levee System: All components and features which collectively provides protection (reduces the probability of flooding) to a defined area up to a specific event.



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Inspection Program

Routine Inspections:

Verifies O&M, More Rigorous Standards, Improved Communication, System-based, Every Year

Periodic Inspections:

Verifies O&M, Evaluates Structure Stability, Compares Constructed Criteria to Current Criteria, Every 5 Years

Periodic Assessments:

Periodic Inspection + Potential Failure Mode and Consequences Analysis, Every 5 Years

Risk Assessments:

Data Intensive, Determine Likelihood and Consequences of Failure, Every 10 Years

Increasing Rigor

Continuous Feedback



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Levee Certification

- **Some authorities to perform certifications.**
- **Agency policy not to fund certifications.**
- **Reimbursable process is difficult.**
- **EC 1110-2-6067**
 - Risk analysis is required for H&H.
 - No partial certifications – systems approach.
 - Requires a report approved by LSO.
 - 10 year validity period.



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Levee Screening Tool

- Developed in FY08 to assess the condition and consequences of levees in the Corps of Engineers portfolio.
- Combines information from -
 - National Levee Database
 - Revised routine levee inspections
 - Limited engineering assessment of project features.
- Starting “Beta Testing”



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Levee Screening Tool Outcomes

- Identification of relative risk
- Assist in the assignment of the Levee Safety Action Classification
- Guide setting priorities
- Identify performance concerns and potential consequences of levee failures
- Identify issues to assist in prioritizing interim risk reduction measures



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Other Policy/Procedure Activities

- Draft Interim Risk Reduction Methods
- Engineer Regulation on Levee Safety
- Communication Products
- Levee Safety Action Classification
- Portfolio Risk Management Process for Levees
- Organizational Roles, Training, et al.



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Challenges

- Not just about USACE
Shared Responsibilities
- Not just about engineering
Multiple Business Lines
- Not just about constrained funding
Prioritization
- Not about business as usual
Transparency



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