



Missouri

Buchanan County-Emergency Action Plan

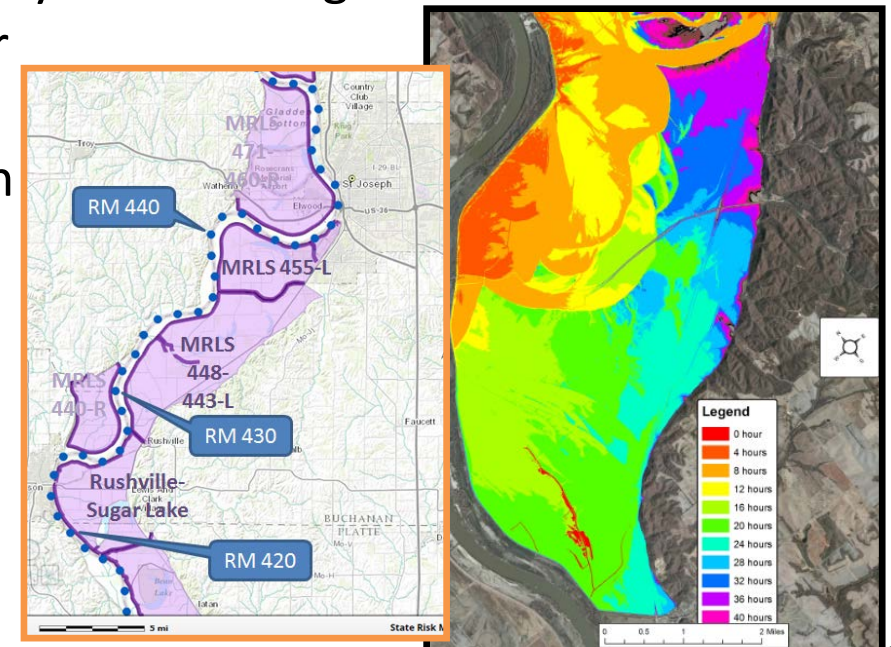


Project Description

- Develop an Emergency Action Plan for the Halls Levee District near St. Joseph, Missouri
- Respond to evolving guidance aimed at proactive interim reduction measures in the USACE Levee Safety Program
- Conduct hydraulic modeling and depth grids to inform evacuation planning
- Develop template Emergency Action Plan for use by other agricultural or rural levee district in the state and also appropriate for use in other Missouri River states

Flood Risk Reduction Outcomes (on going)

- Establishes one interagency hazard mitigation action: an interim risk reduction measure for levee districts that apply the emergency action plan
- Reduces potential damage to property and loss of life potential
- FEMA Community Rating System for Activity 620: Levees



Challenges Overcome / Continuing Challenges

- Variety of emergency preparedness plans, emergency action plans, flood fighting plans, and operation plans that sometimes overlap or have similarities
- Need for not just a blank template, but a guide that matches it
- Need for appendices to contain more technical elements
- Strong need for simple language and brevity in body of the plan

Partners and Project Cost

Agency	Investment
State Emergency Management Agency	\$4K In-kind
Missouri Department of Natural Resources	\$4K In-kind
Halls Levee District	\$8K In-kind
Buchanan County	\$8K In-kind
USACE	\$55K
FEMA	\$4K In-kind
TOTAL	\$83,000

Successes/Best Practices

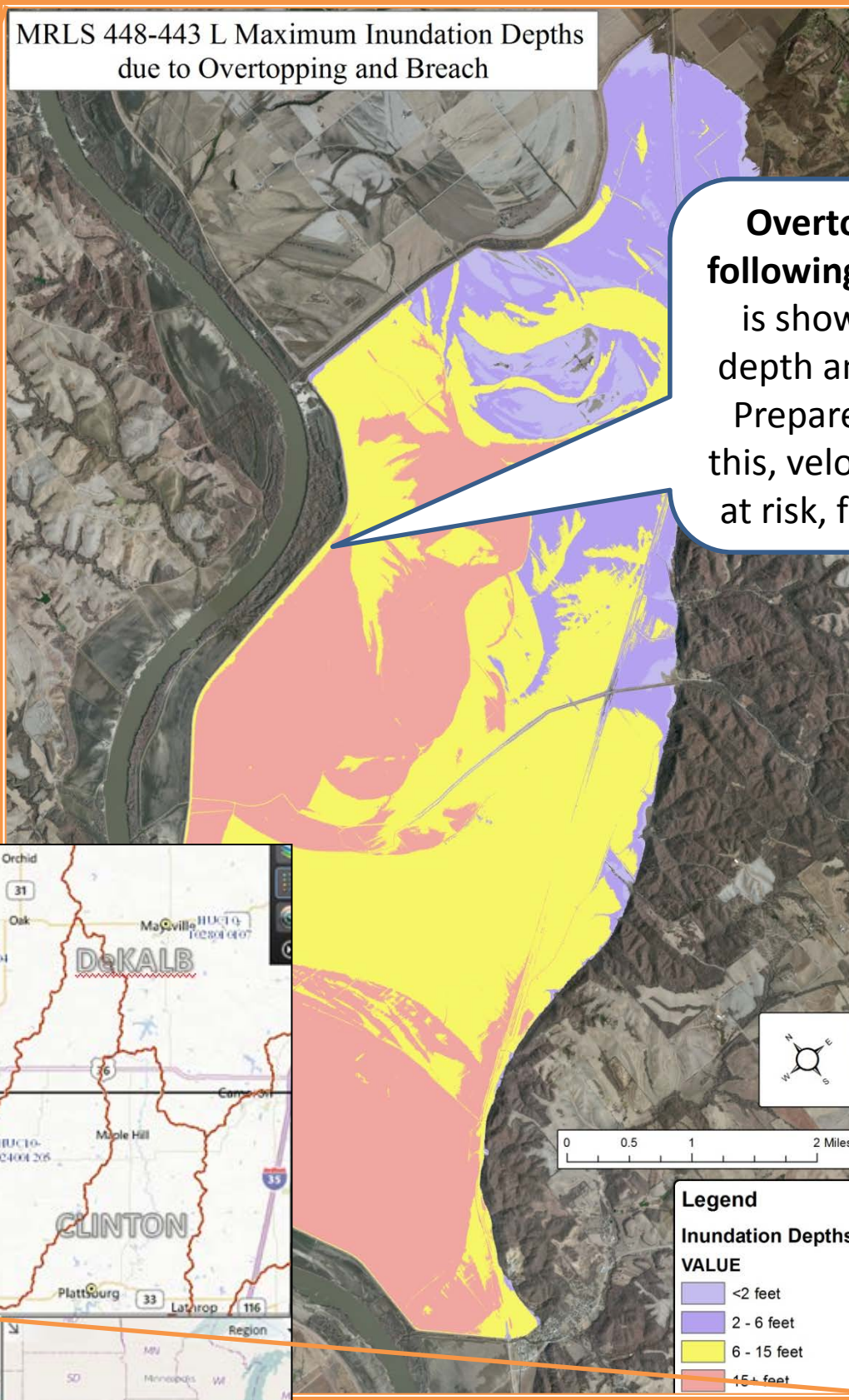
- Share template via state agency web pages
- Clarification of roles and responsibilities
- Action levels tied to specific flood levels and to specific gage elevations when possible
- Action levels & corresponding communication trees
- Short emergency action plan
- Template sections ready for hand written text
- Separate guidance document matching outline

USACE Project Point of Contacts

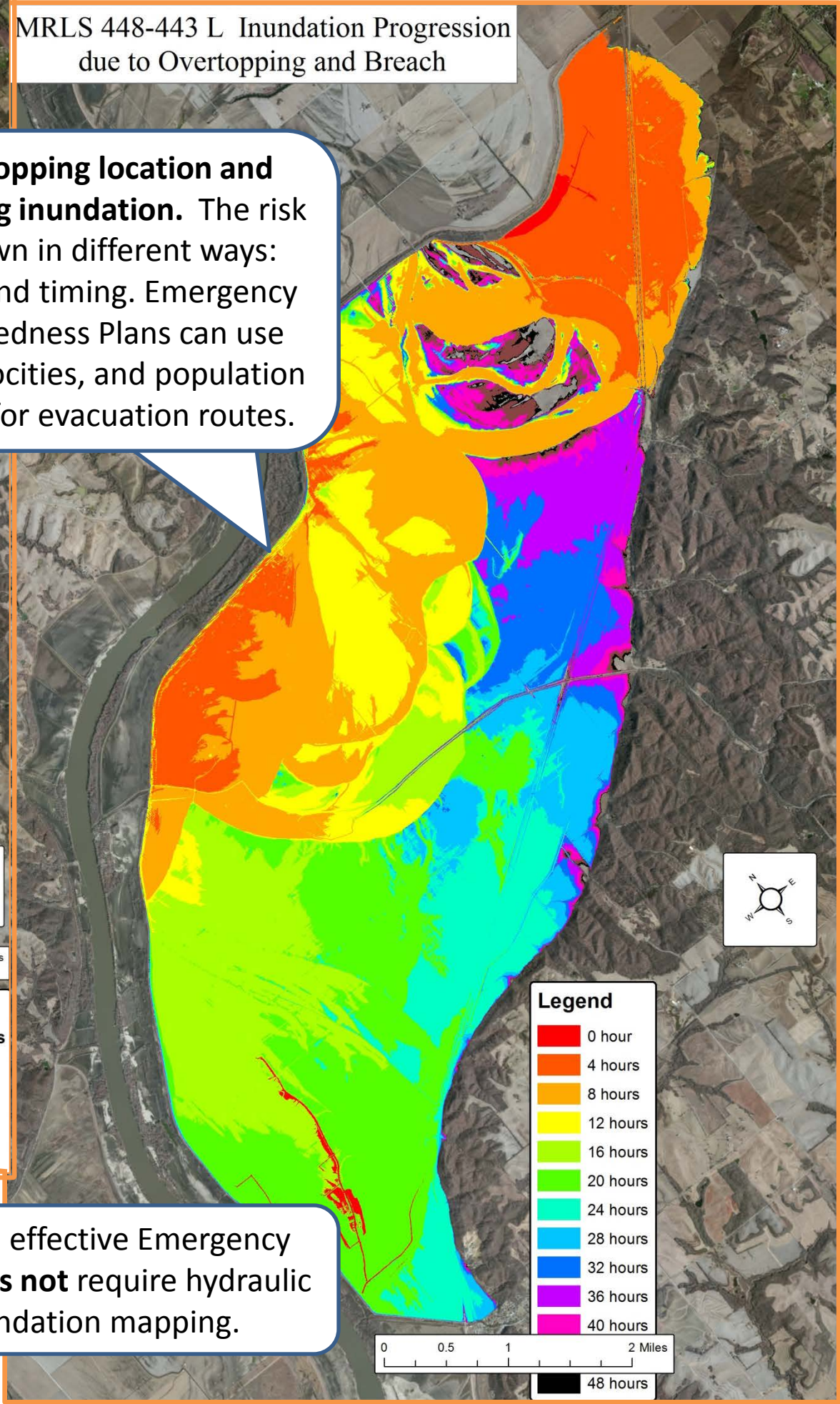
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Kansas City District

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MRLS 448-443 L Maximum Inundation Depths due to Overtopping and Breach



MRLS 448-443 L Inundation Progression due to Overtopping and Breach



Overtopping location and following inundation. The risk is shown in different ways: depth and timing. Emergency Preparedness Plans can use this, velocities, and population at risk, for evacuation routes.

NOTE: Establishing an effective Emergency Preparedness Plan **does not** require hydraulic modeling and inundation mapping.

