



Discovery Meeting: Lower Wisconsin

November 16, 2011

RiskMAP
Increasing Resilience Together



Introductions

- **Risk MAP Project Team**
- **Local partners and officials**
- **State partners and officials**
- **Other Federal Agency partner representatives**
- **Private-sector entity representatives**
- **Congressional and State legislative staff**

Agenda

- **Why We're Here**
- **Communities in the Lower Wisconsin Watershed**
- **Risk MAP Program Overview**
- **Discovery Overview & Discussion**
- **Flood Risk Assessment Products Overview**
- **Mitigation Planning and Communication**
- **Questions to Consider**
- **Next Steps**



Why We're Here

- **Start a dialogue about your flood risk**
- **Understand your needs and priorities**
- **Communicate available resources**
- **Offer partnerships and answer questions**
- **Give you a complete, current picture of your flood hazards and risks to help you better:**
 - Plan for the risk
 - Take action to protect your communities
 - Communicate the risk to your citizens

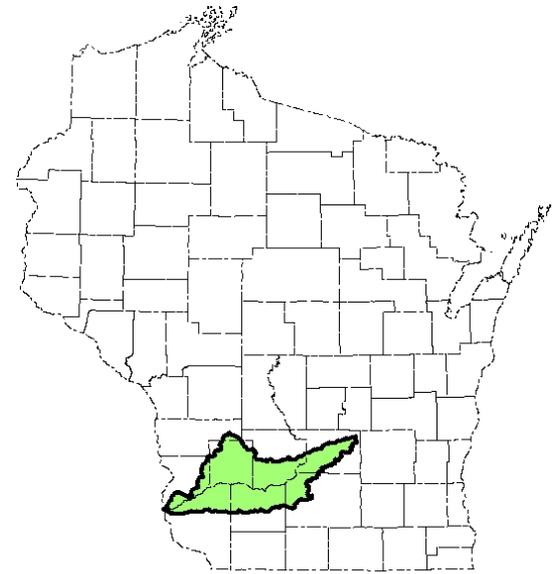
Communities in Watershed

Lower Wisconsin Watershed

- **Counties: Columbia, Crawford, Dane, Grant, Iowa, Richland, Sauk**
- **~3600 total stream miles and ~1200 mapped**

Focus Area:

- **Studied streams with outdated methodologies**
- **Unstudied streams with development pressure or other issues**
- **Iowa and Richland counties**





Risk MAP Program and Project Overview

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Program Overview

■ Risk MAP

- Mapping – Flood hazard and risk identification
- Assessment – HAZUS and other risk assessment tools
- Planning – Hazard mitigation planning and HMA grants

■ Risk MAP Vision

- Deliver quality data
- Increase public awareness of flood risk
- Encourage local/regional actions that reduce risk

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Risk MAP Project Timeline



3-5 Year Process

*Kickoff and subsequent steps will only occur if a Risk MAP project is conducted.

Discovery Process

■ Data Collection

- Collect information about the communities in the watershed
- Develop draft Discovery Report and Map

■ Discovery Meeting

- Present potential flood risk products and get feedback
- Discuss and prioritize areas needing flood risk study
- Discuss local planning and communication assistance

■ Outcome

- Finalize Discovery Report and Map
- Develop a scope of work and budget for Risk MAP project
- Determine available local contributions

Risk MAP Project Benefits

- **Flood risk products and flood hazard maps that are:**
 - Developed by FEMA in accordance with communities
 - Based on the best available data from the community and latest technologies
 - Conducted by watershed
 - Strengthened by partnerships

- **Risk MAP tools and data can be used to:**
 - Create or improve your Hazard Mitigation Plans
 - Make informed decisions about development, ordinances, and flood mitigation projects
 - Communicate with citizens about flood risk



Flood Risk Data and Discovery Maps

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Data Collection

- **We will be asking you for the following datasets:**
 - Infrastructure information for levees and new bridges, dams, culverts, and road improvements
 - Building footprints or parcel data
 - Boundary, hydrography, and transportation layers
 - Elevation data
 - Regional watershed plans
 - Information about your flood risk communication processes

Elevation Data/LiDAR Status

Columbia – March 31, 2012

Crawford – September 30, 2012

Dane – Available now

Grant – June 30, 2012

Iowa – Available now

Richland – Available now

Sauk – December 31, 2012

Local Activities That Affect Flood Risk

- **Upcoming activities that may affect flood risk**
 - Development plans
 - Planned mitigation activities

- **Local activities taken to address flood risk**
 - Stormwater management activities
 - Floodplain management activities
 - Daily operations
 - Outreach activities



Flood Risk Assessment Products

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Program Product Comparisons

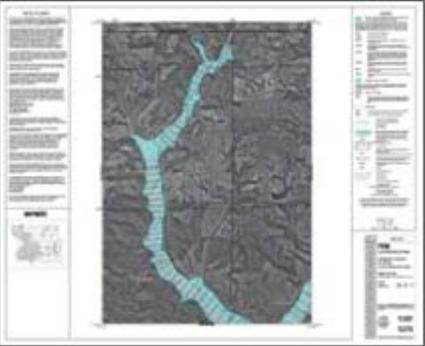
Traditional Regulatory Products

DFIRM Database

- Flood_Hazard_Data
- Political_Boundaries
- Public_Land_Survey_System
- TopoData
- Community_Panel
- L_Comm_Info
- L_MT1_LOMC
- L_Pan_Revis
- L_Pol_FHBM
- L_Riv_Model
- L_Stn_Start
- L_Wtr_Nm
- S_Bfe
- S_DOQ_Index
- S_Firm_Pan
- S_Gen_Struct
- S_Label_Ld
- S_Label_Pt
- S_LOMR
- S_Perm_Bnk
- S_Quad
- S_Riv_Mrk
- S_Transport_Ar

FLOOD INSURANCE STUDY

FLOOD COUNTY USA AND INCORPORATED



Subject to statutory due-process requirements

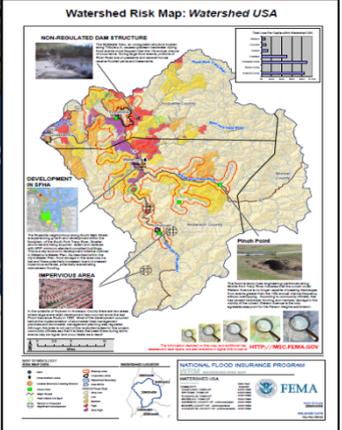
Non-Regulatory Products

Flood Risk Database

- Community_Panel_Info
- L_Comm_Info
- L_MT1_LOMC
- L_Pan_Revis
- L_Pol_FHBM
- L_Riv_Model
- L_Stn_Start
- L_Wtr_Nm
- S_Bfe
- S_DOQ_Index
- S_Firm_Pan
- S_Gen_Struct
- S_Label_Ld
- S_Label_Pt
- S_LOMR
- S_Perm_Bnk
- S_Quad
- S_Riv_Mrk
- S_Transport_Ar

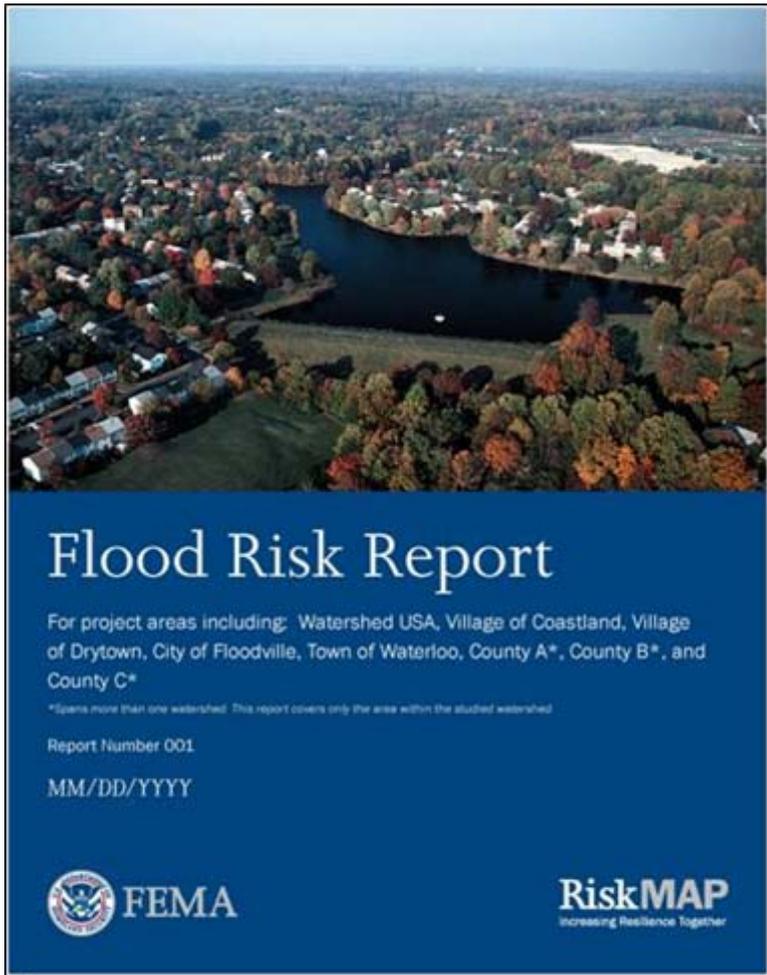
Flood Risk Report

Watershed Risk Map: Watershed USA



Not subject to statutory due-process requirements

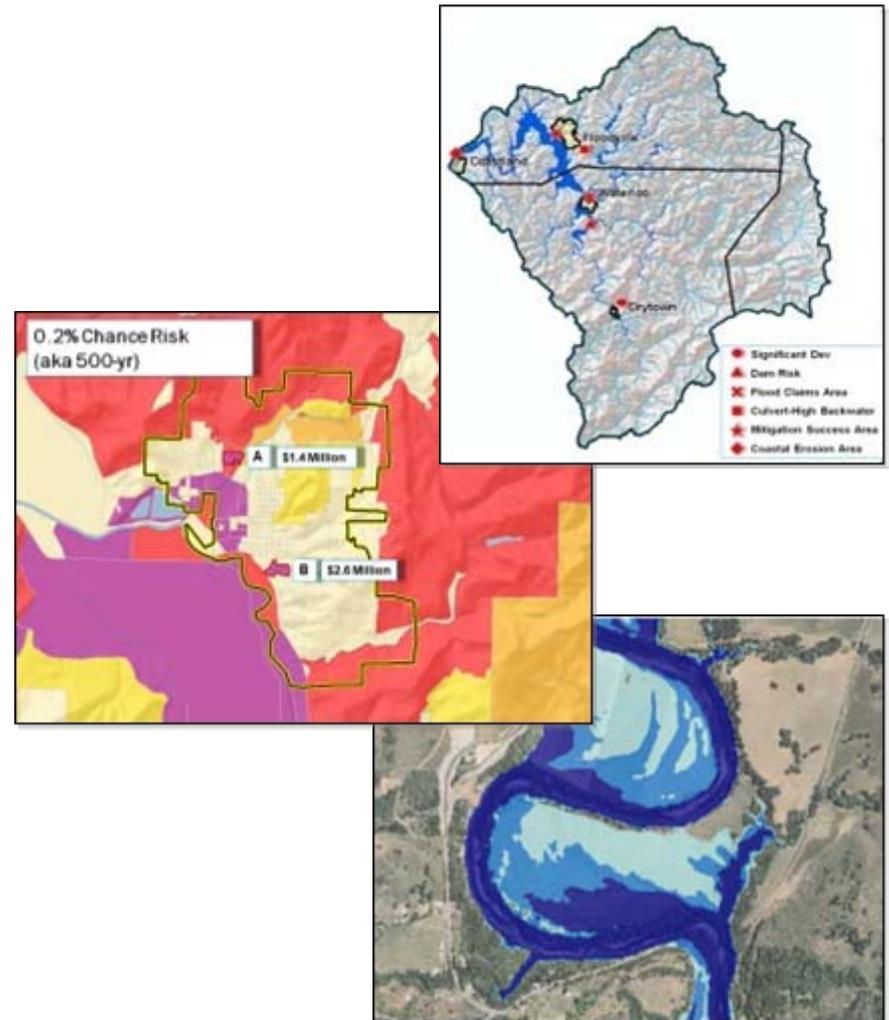
Flood Risk Report



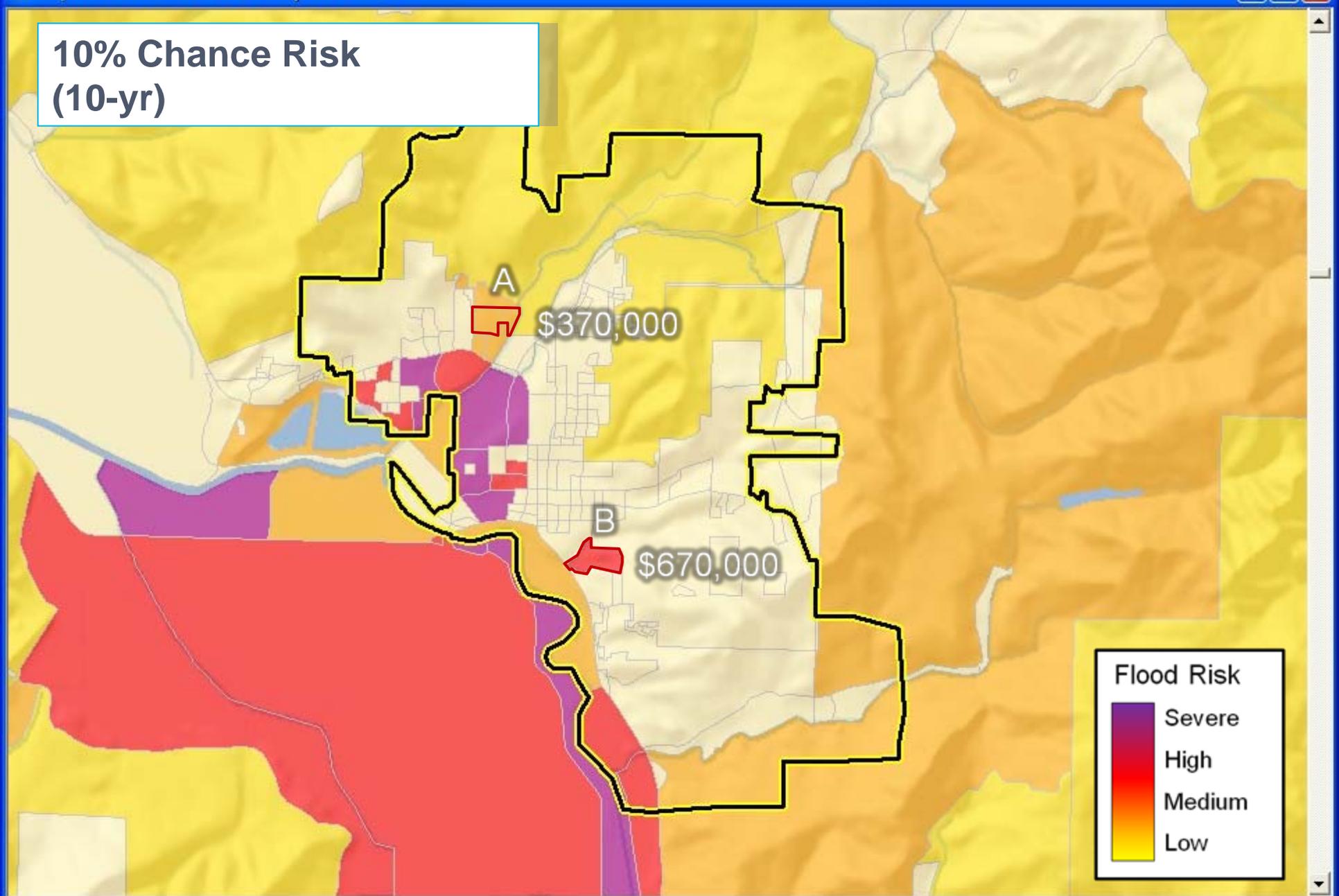
- **Background**
 - Purpose, Methods
 - Risk Reduction Practices
- **Project Results**
 - Changes Since Last FIRM
 - Depth & Analysis Grids
 - Flood Risk Assessment
 - Enhanced Analyses
- **Summarized by Locations**
 - Communities and Watersheds

Flood Risk Products

- Changes Since Last FIRM
- Depth and Analysis Maps
- Flood Risk Assessment (HAZUS)
- Areas of Mitigation Interest (if available)

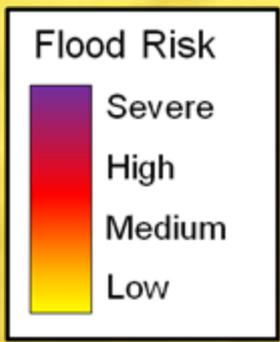


10% Chance Risk (10-yr)

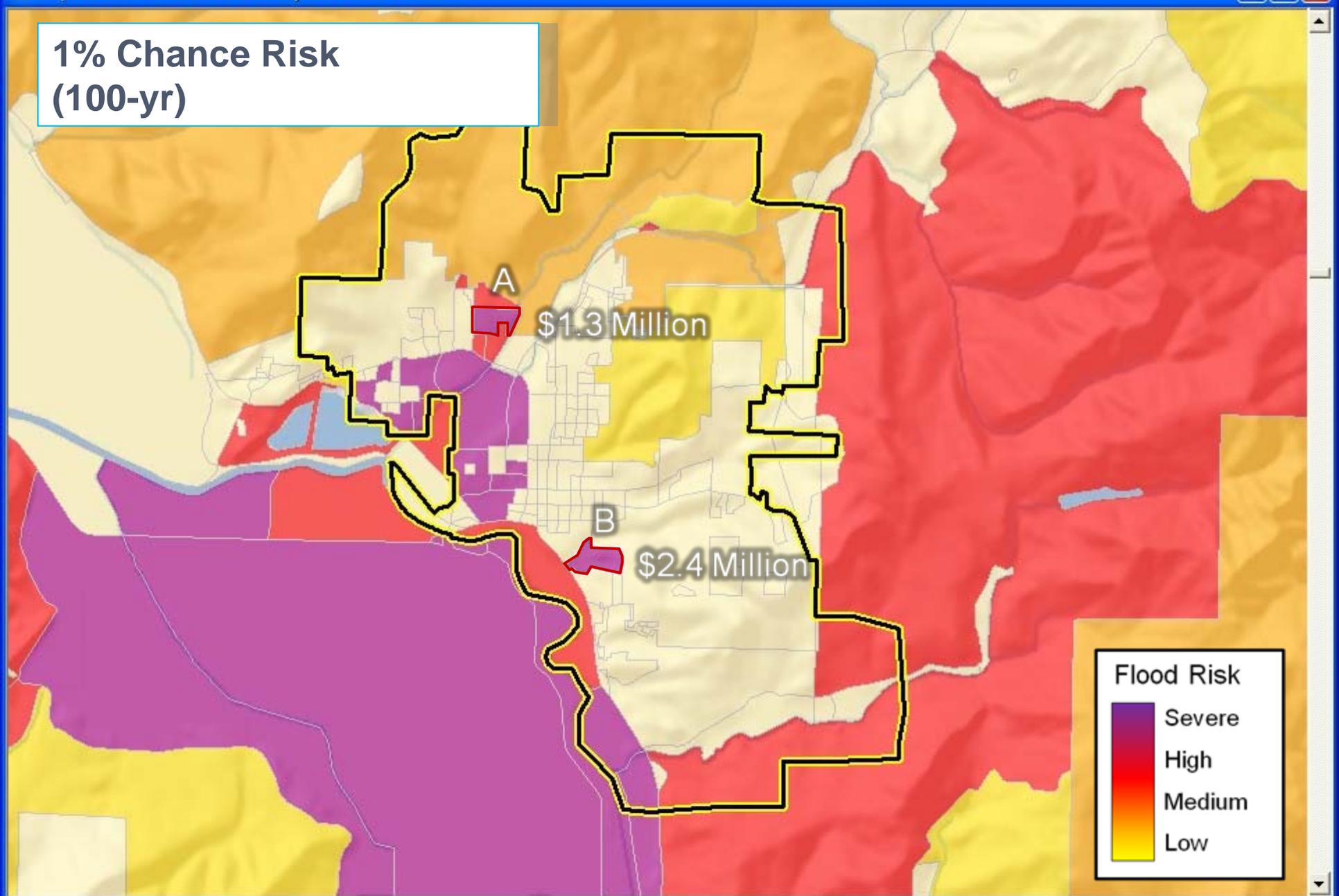


A \$370,000

B \$670,000



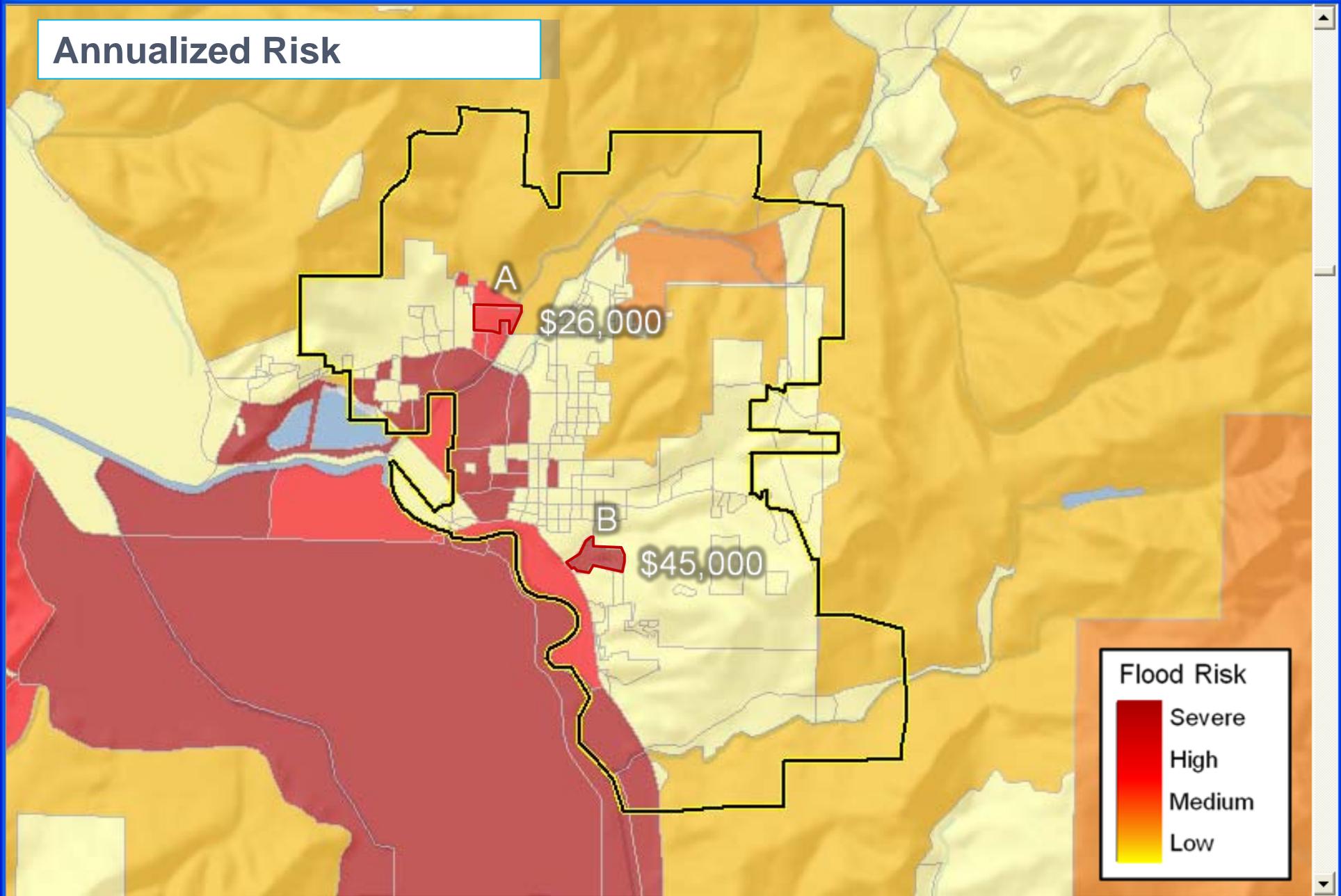
1% Chance Risk (100-yr)



Flood Risk

- Severe
- High
- Medium
- Low

Annualized Risk



Flood Risk

- Severe
- High
- Medium
- Low

A \$26,000

B \$45,000



Mitigation Planning and Communication

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Moving Beyond Floodplain Maps



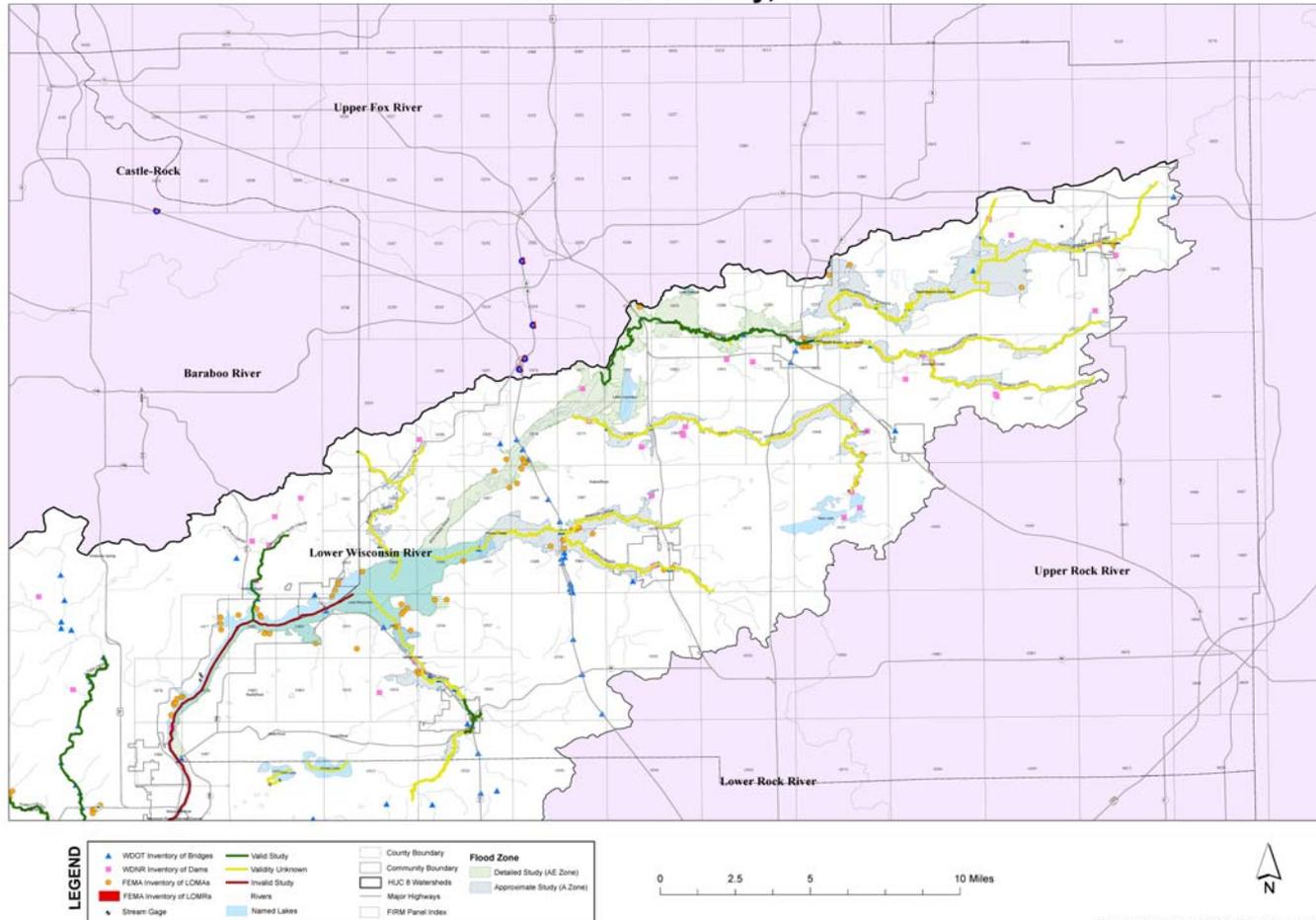
Break Out Sessions

Questions to Consider

- Do you have flood hazard data used for planning/management that are not reflected on the FIRM?
- Are there inaccuracies in the FIRMs for your community? Where?
- Are there new road crossings that are not reflected on the FIRM?
- Are there areas of high population (or population growth) where a Zone A exists on the FIRM?
- Are there areas of future development pressure where a mapped floodplain would be helpful to identify risk?
- Where are problem flooding areas?
- Where are areas of concern for emergency response, i.e., evacuation routing, critical facilities, other vulnerabilities?
- Do you agree with the identified requests and needs currently shown on FEMA's Discovery Map?
- How would you prioritize these issues and needs?

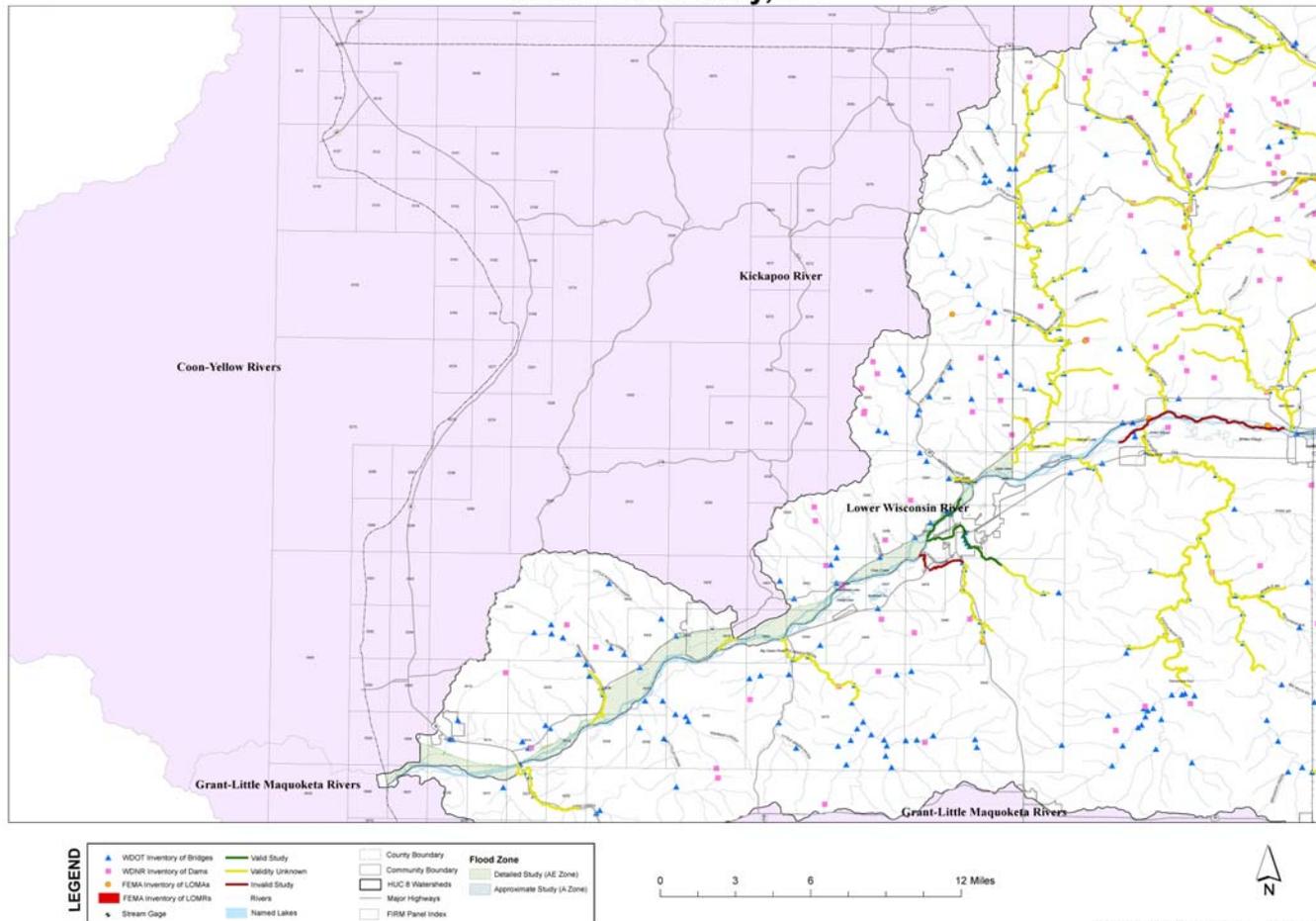
Your Discovery Maps

Discovery Meeting November 16, 2011
 Lower Wisconsin Watershed
 Columbia County, WI



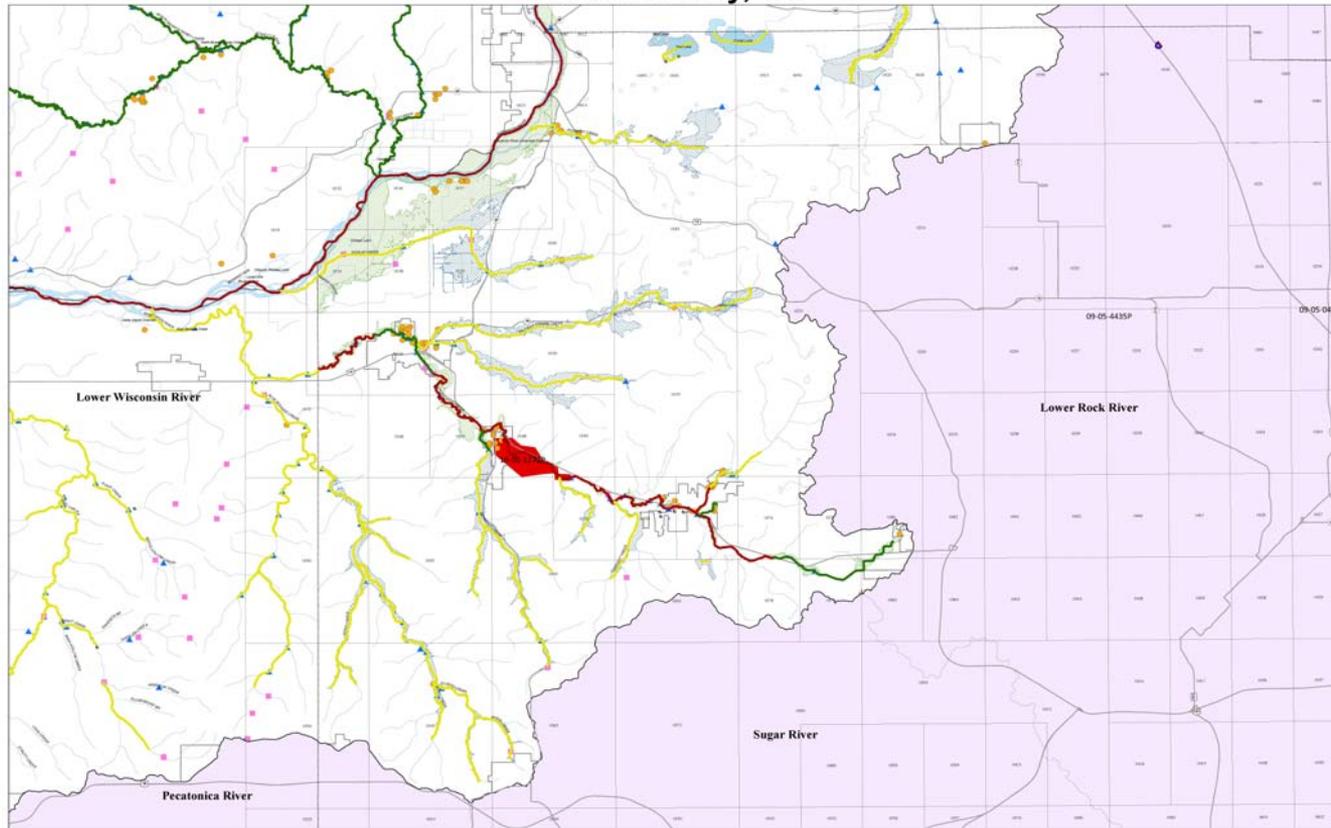
Your Discovery Maps

Discovery Meeting November 16, 2011
 Lower Wisconsin Watershed
 Crawford County, WI



Your Discovery Maps

Discovery Meeting November 16, 2011
 Lower Wisconsin Watershed
 Dane County, WI



LEGEND

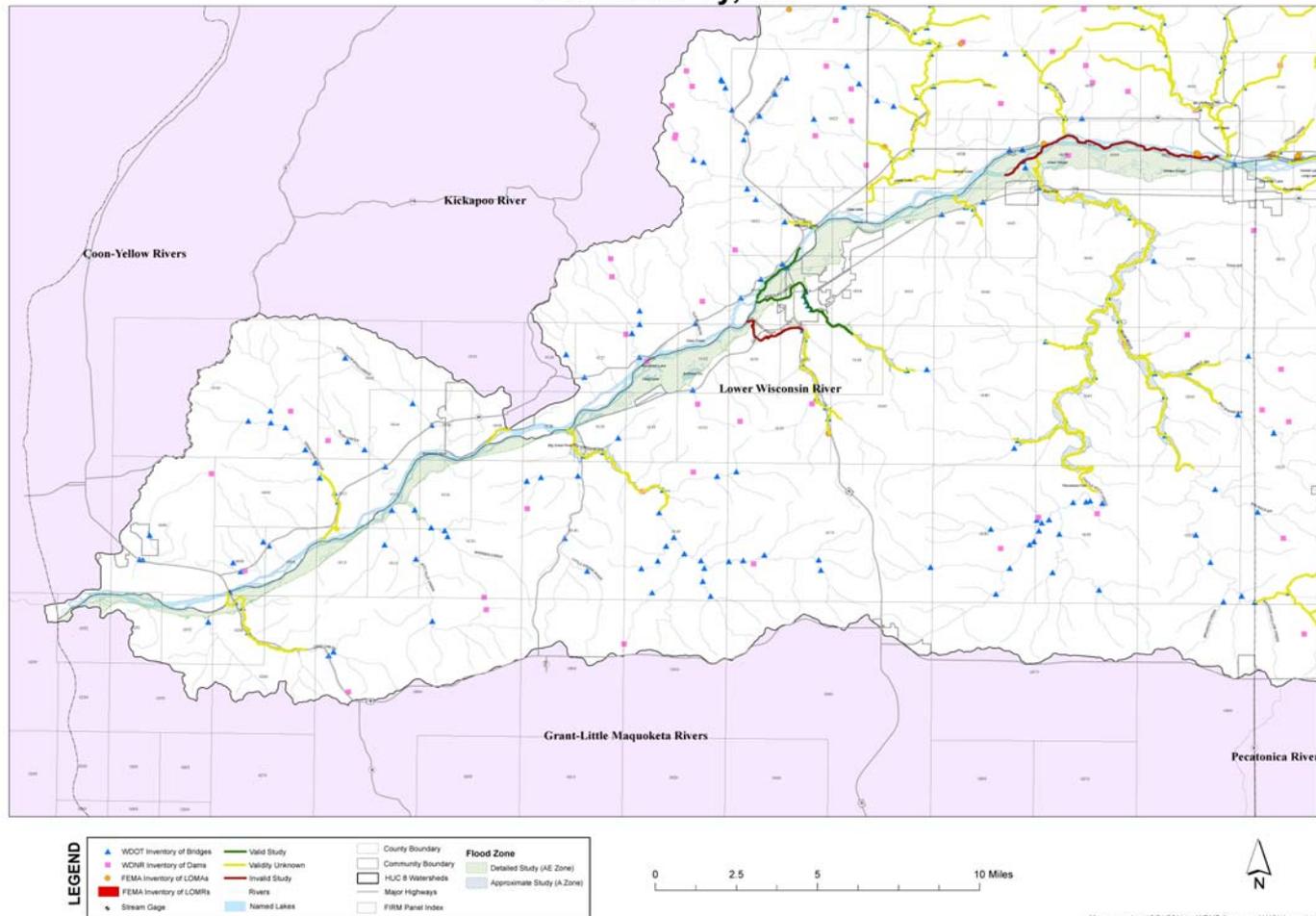
▲ WDOT Inventory of Bridges	— Valid Study	▭ County Boundary	Flood Zone
● WDNR Inventory of Dams	— Validity Unknown	▭ Community Boundary	■ Detailed Study (AE Zone)
● FEMA Inventory of LOMAs	— Invalid Study	▭ HUC 8 Watersheds	■ Approximate Study (A Zone)
● FEMA Inventory of LOMAs	— Rivers	▭ Major Highways	
● Stream Gauge	■ Named Lakes	▭ FIRM Panel Index	



Map created on 10/01/2011 by WDNR for use at 11/16/11 meeting

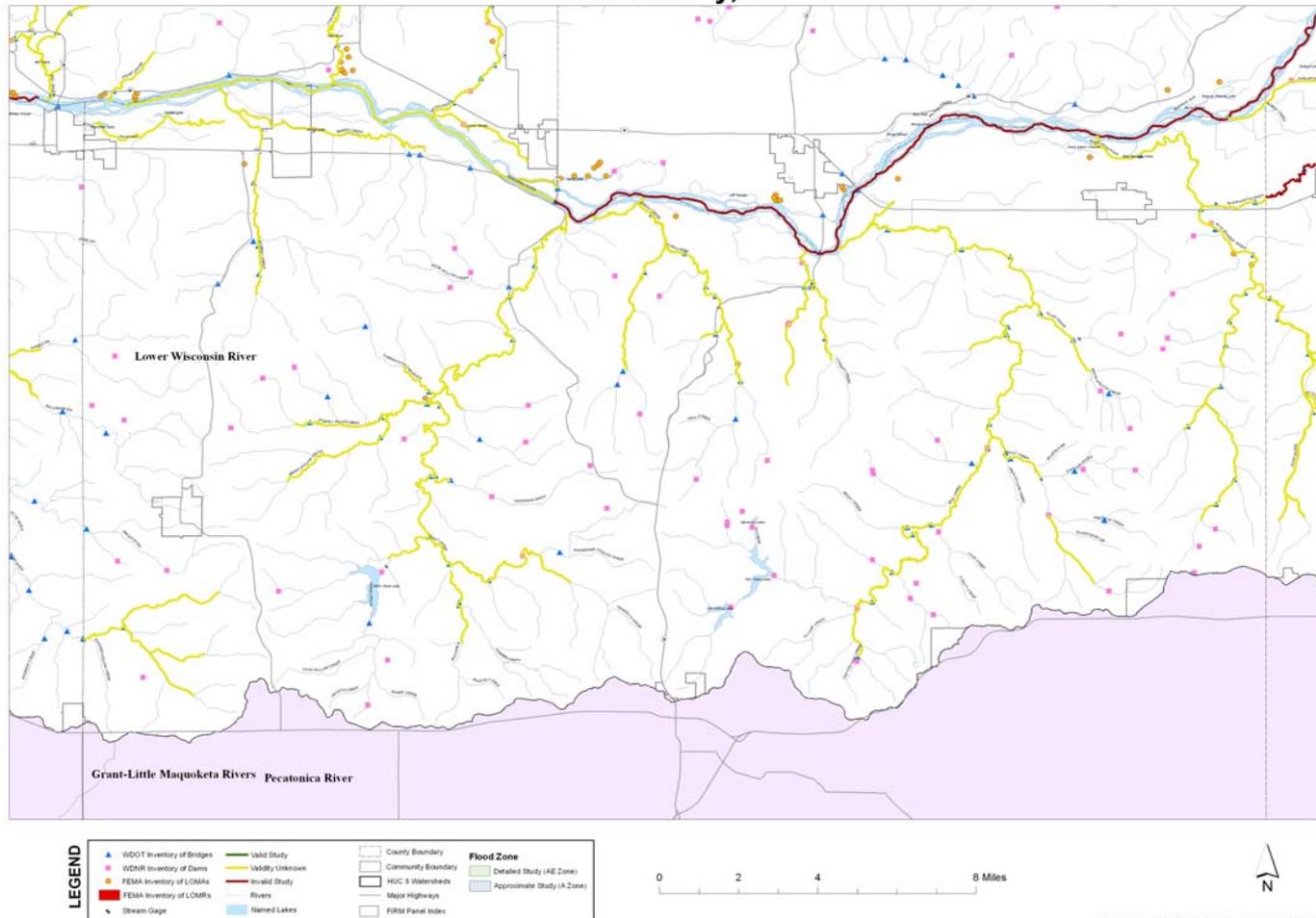
Your Discovery Maps

Discovery Meeting November 16, 2011
 Lower Wisconsin Watershed
 Grant County, WI



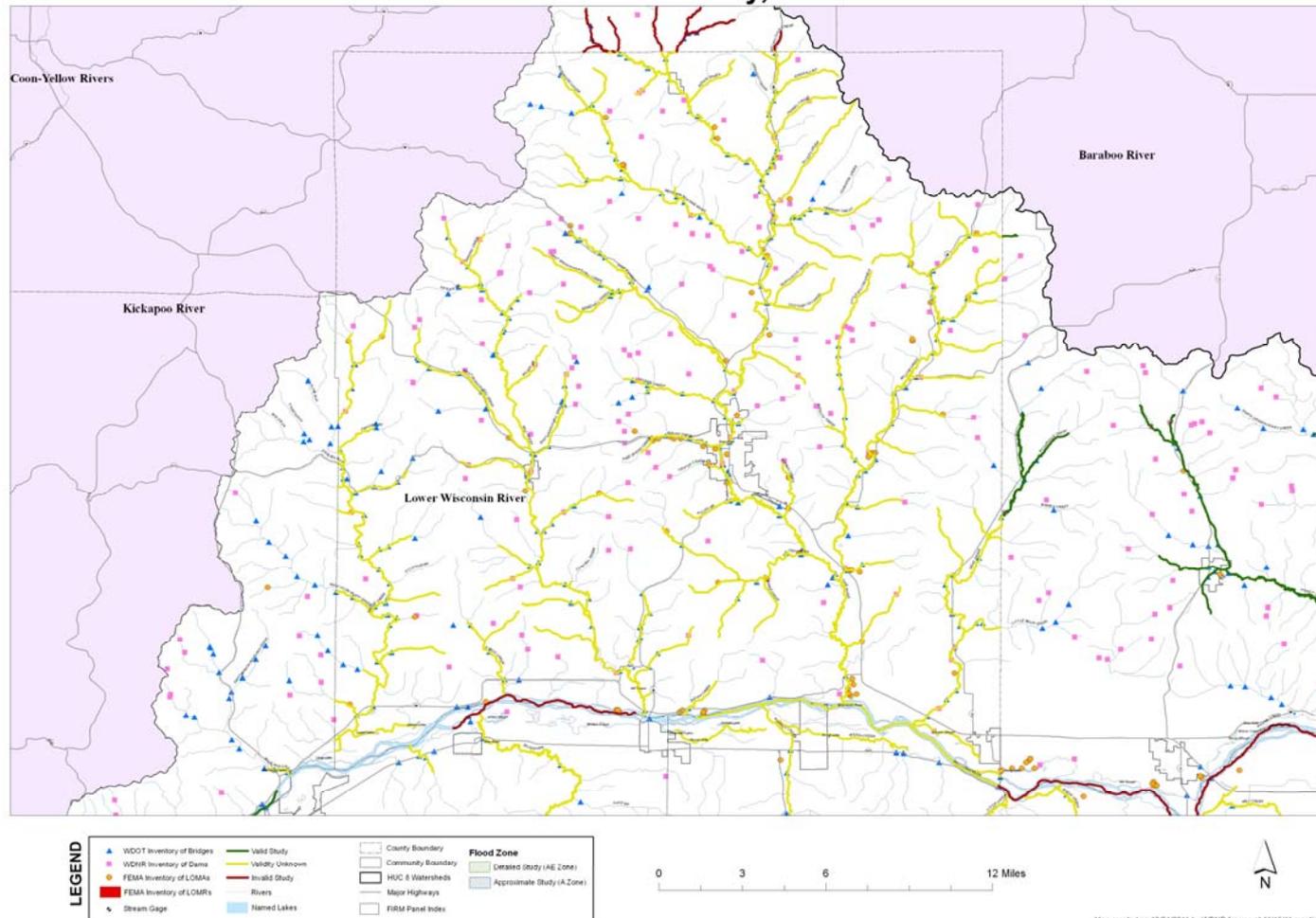
Your Discovery Maps

Discovery Meeting November 16, 2011
 Lower Wisconsin Watershed
 Iowa County, WI



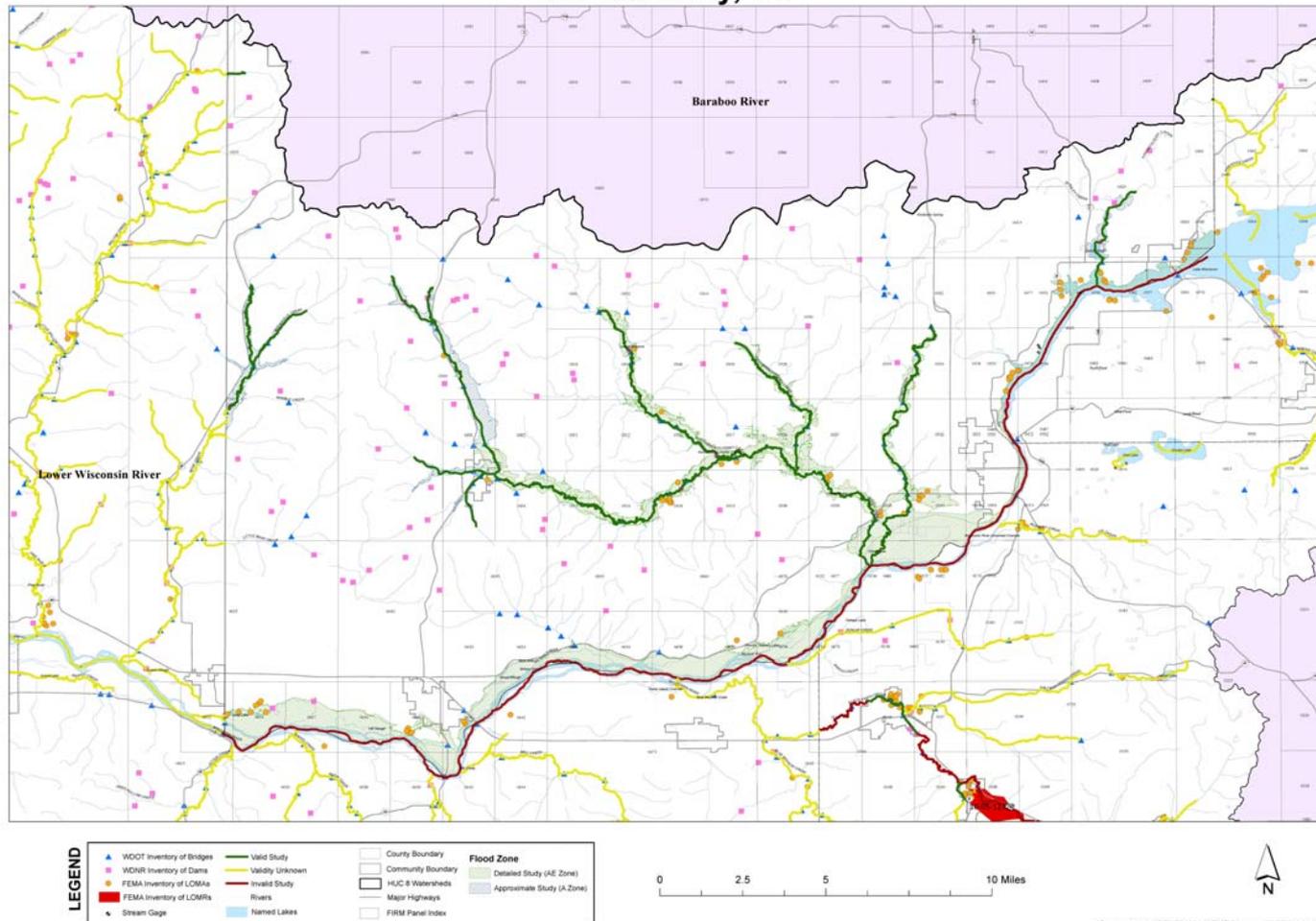
Your Discovery Maps

Discovery Meeting November 16, 2011 Lower Wisconsin Watershed Richland County, WI



Your Discovery Maps

Discovery Meeting November 16, 2011 Lower Wisconsin Watershed Sauk County, WI



Next Steps

- **Based on today's discussion, you will be provided with:**
 - An updated Discovery Map
 - A Discovery Report that summarizes the data collected

- **Based on the discussion of your flood hazards, areas for further study will be determined and you'll receive:**
 - A draft project scope that shows the areas to be studied

Questions to Consider

- Do you have flood hazard data used for planning/management that are not reflected on the FIRM?
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