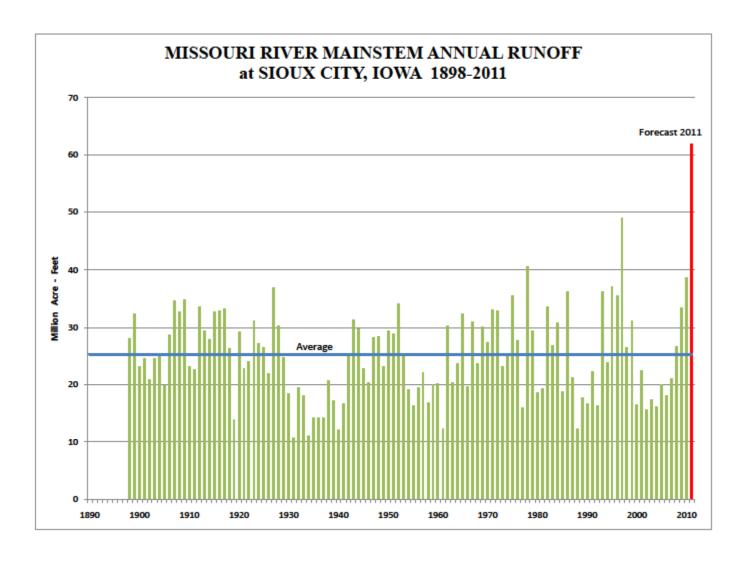
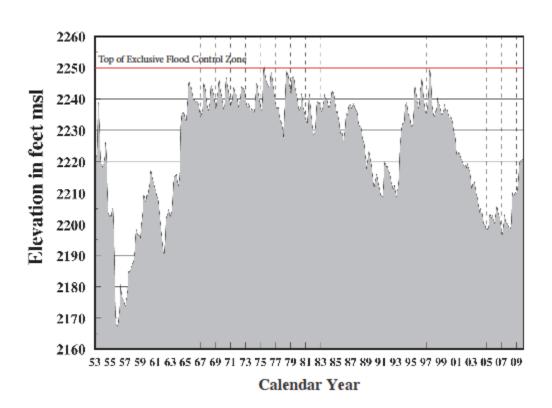
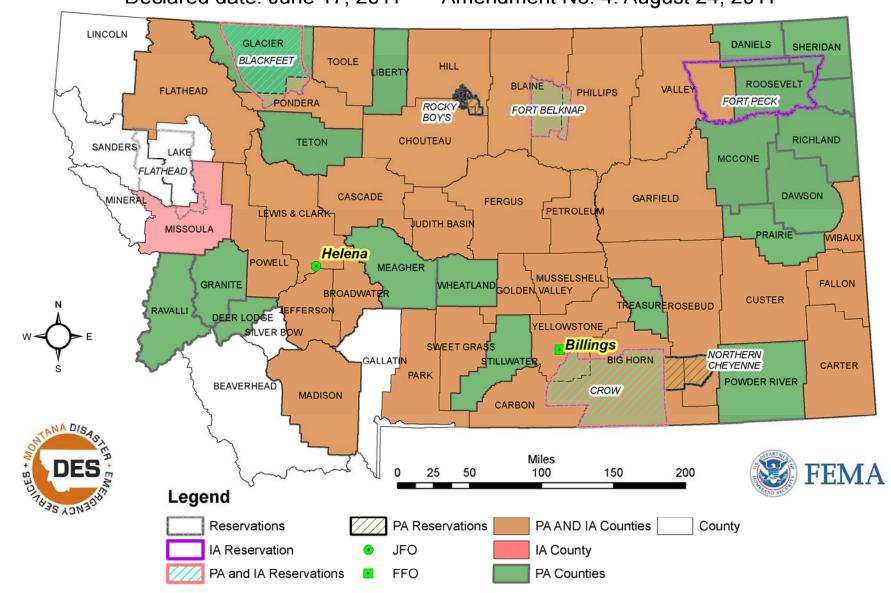
MONTANA



Fort Peck Elevations 1953-2010



FEMA-1996-DR-MT
PA and IA Declared Counties/Reservations
Declared date: June 17, 2011 Amendment No. 4: August 24, 2011



2011 MT Floods – Damages and Recovery Options

Damage Estimates

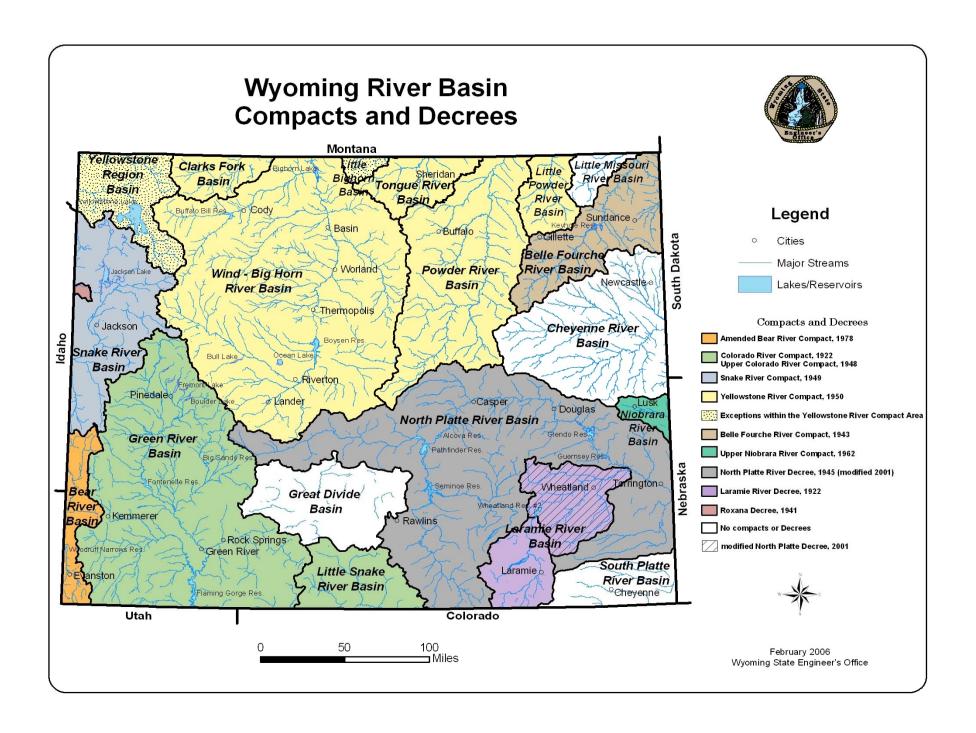
- Public Works:
 - Between \$57.5 million
- Individual:
 - Housing Assistance \$4,442,194
 - Small Business Assistance \$1,634,100
 - Other Needs Assistance \$326,412

Recovery Options

- Federal Assistance:
 - FEMA Mitigation Grants
 - Disaster Funds
 - NRCS funds
- State Assistance:
 - Match for FEMA Grant Programs
 - RRGL/RDG grants
 - Environmental Contingency

WYOMING Authorities, Capabilities, & Programs

- Wyoming Office of Homeland Security
 - Disaster Response
 - Coordination with FEMA
 - Daily Coordination calls during Flood Fight (May-June '11)
- Wyoming State Engineer's Office
 - Dam Safety
 - Water Administration and Regulation
 - Interstate River Coordination
- Governor Matt Mead's Office/Nat. Res Sub-cabinet
 - Coordination among agencies



Interests & Short-Term Activities

• Interests:

- Coordination of river/reservoir management between MO River tributaries and the mainstem
- As non-mainstem state, want an understanding of flood recovery efforts throughout the basin

• Short-term activities:

- FEMA payments coordinated by Homeland Security
- Repairs of diversions, headgates, gaging stations impacted by the flood flows
- Safety of dams inspections
- Determine appropriate role for Wyoming in this Task Force

Challenges

- Getting prepared for next year, not knowing if it will be another big water year
- Compliment rather than a challenge:
 - The operations by Reclamation staff of their facilities in coordination with the Corps for downstream flooding was exemplary
- Lead-time prior to peak runoff due to cool June temps allowed for preparations to be placed, such as sandbagging, pumps, etc. Good when you have that advance, but can't plan on it.
- Ten to 60 day-out precipitation and temperature forecasts needed the most

North Dakota's Authorities, Capabilities, & Programs

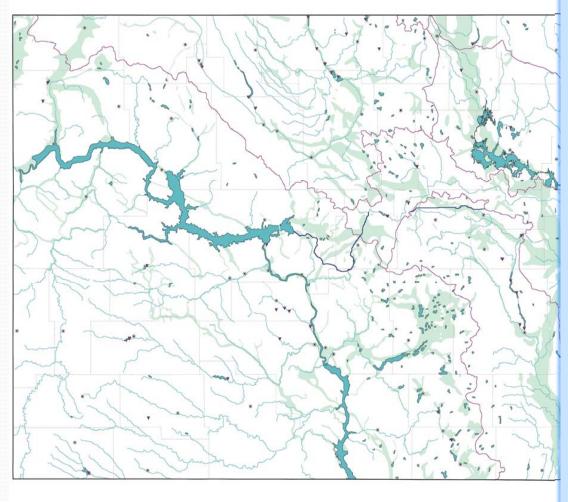
- Regulatory authority (State Engineer)
 - Sovereign land management and permitting
 - Project construction permitting
 - Water appropriation
- Project funding capabilities (SWC Cost-share Program)
 - Flood control, bank stabilizations, studies, snagging and clearing, dredging, buy-outs?
- Technical assistance (SWC, SE, ND National Guard, DES)
 - Before & During floods (engineering, modeling, surveying, levee constructions, road raises, EOC)
 - Post-flood (Silver Jackets Program, engineering, modeling, surveying, education, coordination)
 - Floodplain management

North Dakota's Interests & Short-Term Activities

Interests:

- Rapid flood recovery & looking to the future Short-term Activities:
- Governor-appointed Flood Recovery Officer
 - Gen. Murray Sagsveen
- Ongoing damage assessments along the MR corridor
 - Most damages Bismarck-Mandan, Burleigh and Morton Counties, Williston, Fort Yates (Standing Rock Indian Reservation)
- After action meetings coordinated by NDDES
- Proposed local flood mitigation task force
 - Bismarck, Mandan, Burleigh, Morton, and three water boards

Challenges



- Corps bank stabilization projects
 - Need inspections and repairs ASAP
- Severe sedimentation problems
 - Bismarck-Mandan and Williston
- Improved use of run-off forecasting – especially in plains region
- Improved flood warning systems
- Additional fall drawdown of L.
 Sakakawea when appropriate
- Modification of spring releases
- Floodplain management and development encroachment along the Missouri River
- Corps ignoring natural flows and states' water rights

NEBRASKA

Authorities, Capabilities, & Programs

- Neb. Rev. Stat. Chapter 31, Article 10: Flood Plain
- Neb. Rev. Stat. Chapter 46, Article 16: Safety of Dams and Reservoirs
- Nebraska Administrative Code Title 455, Chapter 1 Minimum Standards for Floodplain Management Programs
- FEMA's Cooperative Technical Partners (CTP) Program
- Nebraska Silver Jackets Program
- Floodplain Mapping Capability
- Extensive GIS Capability
- In-house Ground Survey Capability
- Others



Interests & Short-Term Activities

• Interests:

- Ensuring that flood control is the highest priority in the operation of the Missouri River Mainstem System
- Taking necessary measures to avoid a repeat of the 2011 flooding
- Short-term activities:
 - Technical assistance to basin Governors in developing recommendations to the Corps for the operation of the Missouri River Flood Regulation system
 - Provide technical review and feedback to the Corps' draft AOP
 - Provide technical assistance to communities for flood mitigation and risk reduction

 Nebraska
 Department of Natural Resources

Challenges

- Lack of full understanding of operational constraints and flexibilities in the Master Manual
- Effectively communicating real-time flood information with all stakeholders during flooding
- Educating stakeholders and public about flood risk and flood damage reduction
- Lack of accurate topographic data (LiDAR) for flood risk identification



MISSOURI

Authorities, Capabilities, & Programs

Missouri Department of Transportation

- Title 23, United States Code, Section 125 Emergency Relief Program administered by Federal Highway Administration for federal aid highways.
- Stafford Act, Public Law 93-288 administered by the Federal Emergency Management Agency for non-federal aid state and local roads.

State Emergency Management Agency

- Robert T. Stafford Disaster Relief and Emergency Assistance Act, PL 100-707.
- Flood Insurance Reform Act of 2004, PL108-264.

Missouri Department of Natural Resources

- State Drinking and Waste Water Revolving Fund.
- Environmental Emergency Response Program.

Missouri Department of Economic Development

• Community Development Block Grant (CDBG) Program.

Missouri Department of Agriculture

• Missouri Agriculture Disaster Relief Fund.

Missouri Department of Conservation

Technical assistance and cost-share programs for fish, wildlife, forestry.

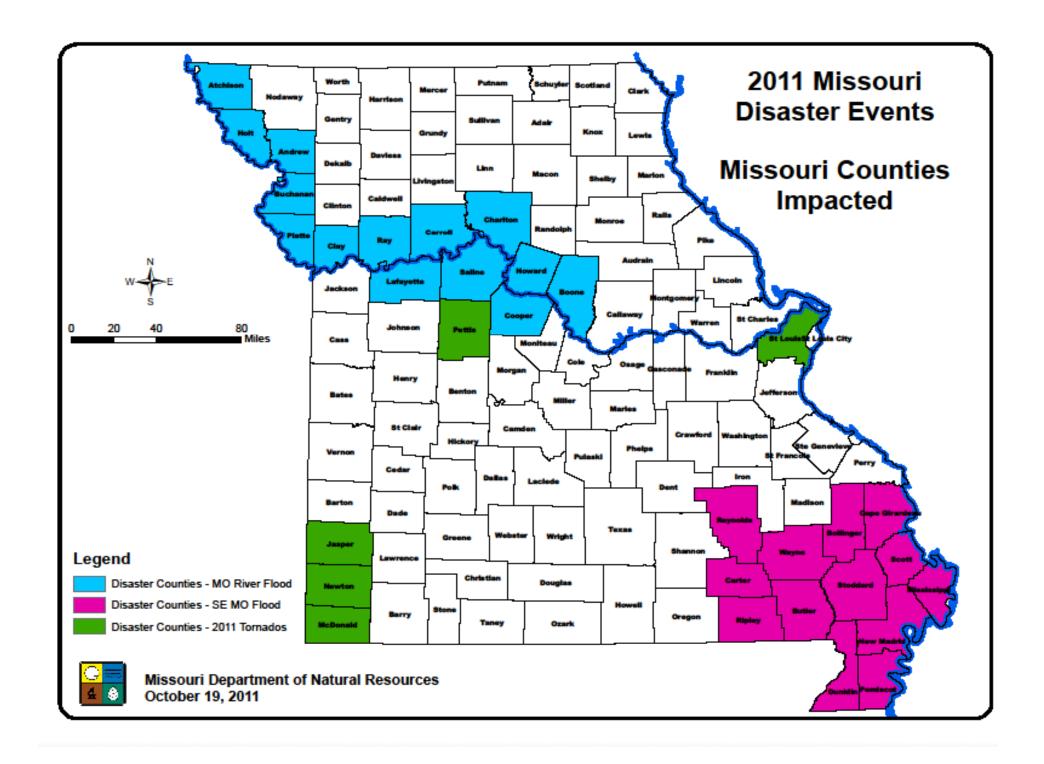
Interests & Short-Term Activities

Missouri Interests:

- To promptly restore and strengthen Missouri's flood damaged infrastructure so that Missouri citizens, commerce and economic interests can duly recover.
- Quick restoration of levees to pre-flood conditions to ensure protection of Missouri citizens, their homes, communities, businesses, vital infrastructure and prime agricultural land.
- Flood control must be the highest priority in managing the Missouri River system.

Missouri Short-Term Activities:

- Facilitate prompt and accurate damage assessments to public infrastructure, levees and agricultural land.
- Ensure timely progress to the repair and strengthening of levees and vital infrastructure to at least pre-flood conditions.



Missouri Challenges

- Facilitating and coordinating the recovery of multiple disasters across the state.
- Ensuring the prompt repair of damaged levees to at least pre-flood conditions.
- Repair of transportation infrastructure damaged by flooding event.
- Prompt repair of public drinking water and wastewater systems impacted by flood.
- Funding to repair and recover from multiple major state disasters this year.

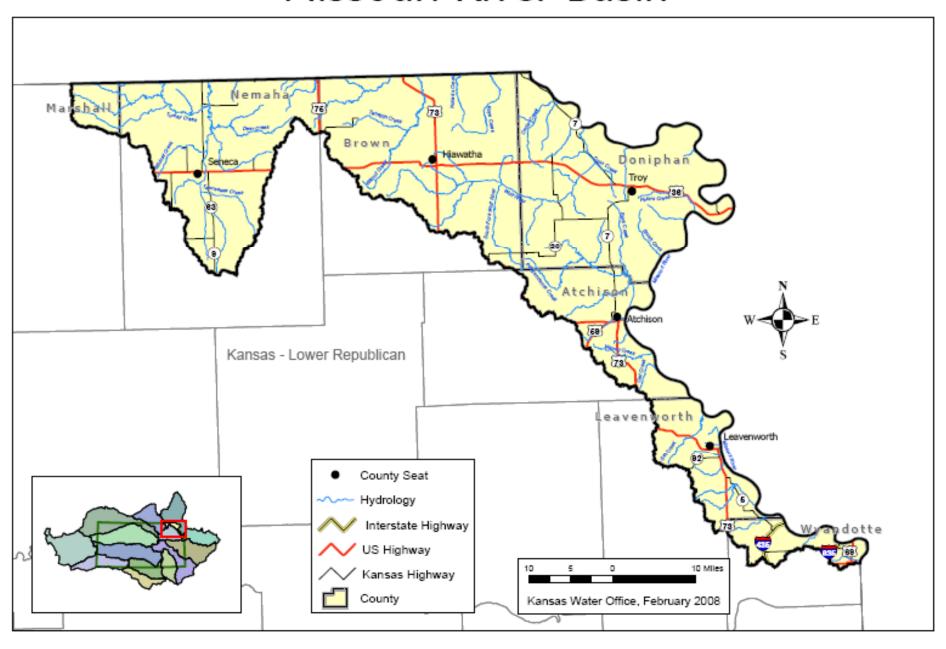
Kansas Authorities, Capabilities, & Programs

- Department of Agriculture
 - Floodplain fill/levee permitting
 - Water Appropriation
- Department of Emergency Management
 - Disaster declaration and response
 - Coordination of FEMA disaster recovery and mitigation funds
- Kansas Water Office
 - Coordination of water projects/stakeholders
 - Ownership of storage in Corps reservoirs water supply

Kansas Interests & Short-Term Activities

- Interests:
 - Repair of flood control structures
 - Balanced long term management of river
 - Better use of data, forecasting and trends
- Short-term activities:
 - Stakeholder meetings with affected area
 - Assisting with coordination of recovery/damage funds
 - Technical review of non federal levees

Missouri River Basin



Kansas Challenges

- Timely review and repair of damage
- Lack of adequate information on projected flows
- Communication of what happened and what is possible to stakeholders
- Funding

IOWA

Authorities, Capabilities, & Programs

- Iowa's Missouri River Recovery Coordination Task Force
 - Established to coordinate disaster recovery efforts of existing authorities Working Groups:
 - Utilities (Iowa Utilities Board-IUB)
 - Housing (Iowa Finance Authority-IFA)
 - Economic Development (IA Dept Economic Development-IDED)
 - Transportation (IA Dept of Transportation-IDOT)
 - Agriculture (IA Dept of Agriculture and Land Stewardship-IDALS)
 - Natural Resources (IA Dept Natural Resources-DNR)
 - Health & Human Services (IA Dept Human Services-DHS)
 - Interagency Levee (IA Homeland Security & Emergency Management-HSMED)
 - Public Assistance (HSEMD)
 - Hazard Mitigation (HSEMD)
 - Communications (HSEMD Public Information Office-PIO)
 - Education (IA Dept of Education)
 - Private Sector (Safeguard Iowa Partnership)

Interests & Short-Term Activities

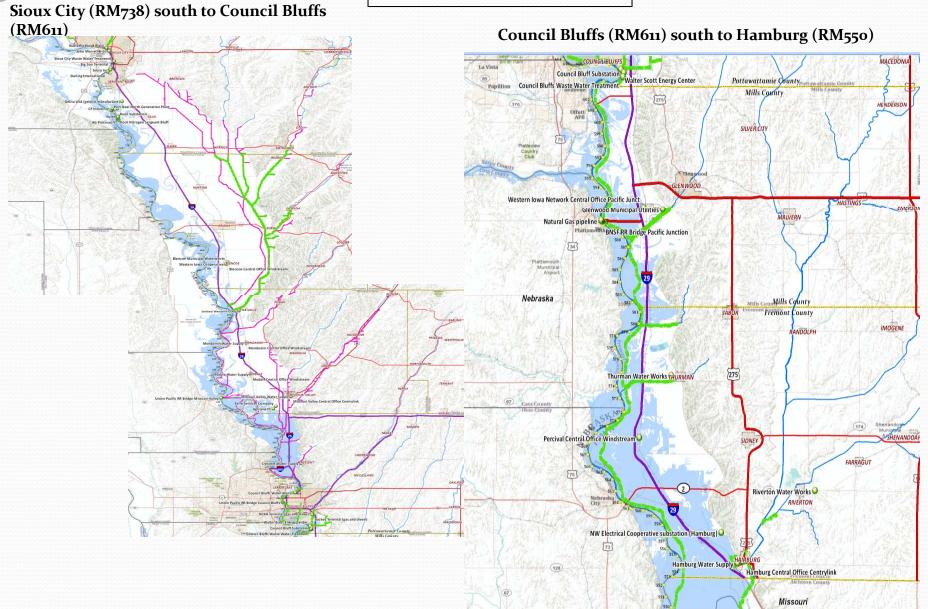
• Initial time/effort spent on impacted areas:

- 192 miles of secondary roads
- 58 miles of primary roads
- 113 miles of federal levees
- Undocumented non-federal levees (located within 114 river miles north of Eppley Airfield to Sioux City)
- 975 residential homes (350 categorized as destroyed & major losses)
- Economic impact
 - Citizens forced out of homes
 - Citizens forced out of jobs
 - Business losses and permanent business closures
 - Subsequent losses of homes due to unemployment
- 262,426 acres of inundated prime farm land negatively impacted for next year's crop

Priority activities:

- Rebuild roadways
- Rebuild and restore homes
- Reinstate jobs
- Rebuild businesses
- Rebuild flood control and water control facilities
- Restore farmland

Legend Iowa Levee Data USACE Levee Data



Challenges

- Preparing for potential high water levels in 2012
- Lack of inventory of non-federal levees in Iowa
- Lack of funding
- Public expectations
 - Programs established for 2008 flood recovery are no longer available

City of Council Bluffs, Iowa Authorities, Capabilities & Programs

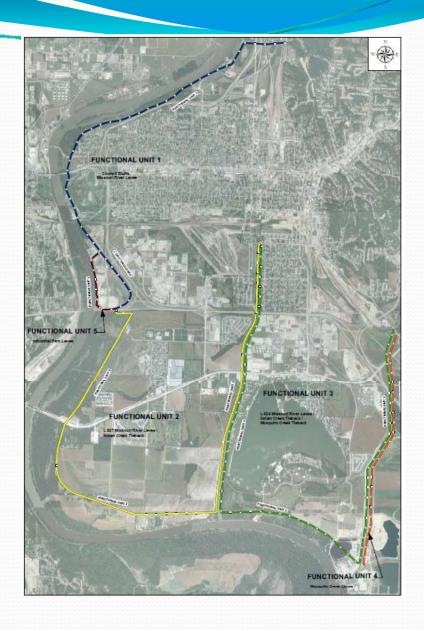
- Sponsor of 28 miles of Federal levee system
- Participant in FEMA National Flood Insurance Program

INTERESTS

- Restoring flood protection capacity of the levee system and repair city infrastructure
- Short term activities
 - Complete damage assessment
 - Implement emergency repair projects to city infrastructure
 - Sanitary Sewer
 - Storm water pump stations
 - Roads
- Secure USACE PL84-99 repairs to levee

Levee System

- ▶ 28.5 Miles of Levee
 - Missouri River
 - Indian Creek
 - Mosquito Creek
- ▶ 16 Storm Water Pump Stations
- 45 Gate Structures
- 173 Relief Wells



CHALLENGES

- Timely damage recovery
- Funding damage recovery
- Managing & complying with State & Federal regulation
- Adjusting for a new aspect of flooding:
 Duration
- Levee certification in FEMA's NFIP