

# Silver Jackets Program

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# Silver Jackets Program

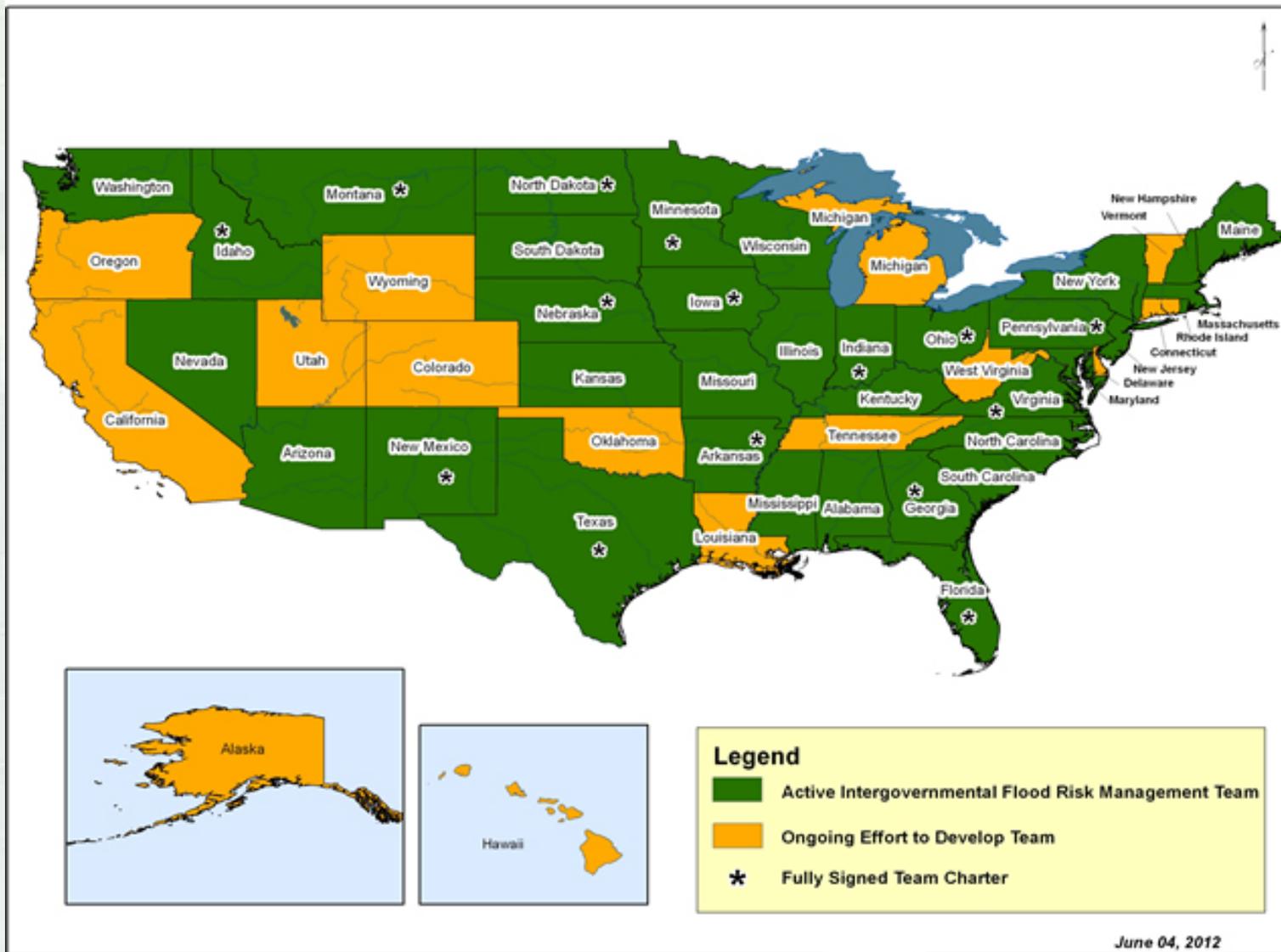
- Silver Jackets is a program that provides an opportunity to bring together multiple Federal, State and local government agencies to learn from one another and apply the knowledge gained to reduce risk.
- Silver Jacket programs are developed at the state level with support from the Corps, FEMA and other Federal agencies.



# Silver Jackets Program

- Continuous collaboration between State and Federal agencies is critical to successfully reducing the risk of flooding and other natural disasters in the United States and enhancing response and recovery efforts
- No single agency has all the answers, but often multiple programs can be leveraged to provide a solution





# Montana Silver Jackets Vision

- The Silver Jackets Team will help public and private organizations and individuals to manage and reduce flood risk and protect the natural and beneficial functions of floodplains in Montana more efficiently and effectively.



# Montana Silver Jackets Goals

- Guide implementation of the recommendations contained in the July 15, 2011 report entitled, Montana Floodplain Management Assessment: Strengthening Policies and Programs that Reduce Flood Risk and Protect Floodplains
- Identify and pursue funding opportunities that will support implementation of the recommendations in the report



# Montana Silver Jackets Goals

- Identify opportunities for mitigation at all stages of the floodplain management and flood-related emergency management cycles
- Pool agency resources and information around the shared purpose



# Team Operations

- Meet semi-annually
- Hold quarterly conference calls
- Establish Committees
  - ▶ Regulatory & Permitting
  - ▶ Mapping
  - ▶ Planning, Mitigation, & Outreach



# Annual Silver Jackets/ Flood Risk Management Workshop

- 3<sup>rd</sup> Annual Workshop is scheduled for August 2012 in Harrisburg, PA
- More than 200 representatives from State and Federal agencies
- Share information and experiences in managing flood risk
- Lynda Saul from the MTDEQ will be representing Montana at the Workshop





**[www.nfrmp.us/state](http://www.nfrmp.us/state)**

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# Communicating Risks Associated with Levee Systems

## Levee Safety Action Classification (LSAC)



# Levee Safety Program Risk Assessment Goals

- ▶ Assess, communicate, and manage the risks to people, property, and the environment from inundation that may result from breach or malfunction of components of levee systems
- ▶ Improve the understanding of risk
- ▶ Support actions to mitigate risk
- ▶ Develop a shared responsibility approach to develop risk reduction measures



# Discussion Topics

- Why is USACE doing this...and why now?
- WRDA 2007 Title IX Authorities for Risk Communication

9004 a. “The Secretary shall establish and maintain a database” including:

- ▶ Information on the location, general condition, and estimate of the consequences associated with levee failure or over-topping
- ▶ Availability of Information:
  - Complete access For Official Use Only users
  - A subset of information will be disseminated to Levee Sponsors and States. The format and content are still being determined.



# Why are We Communicating Risks: Our Responsibilities...



....Our Commitment



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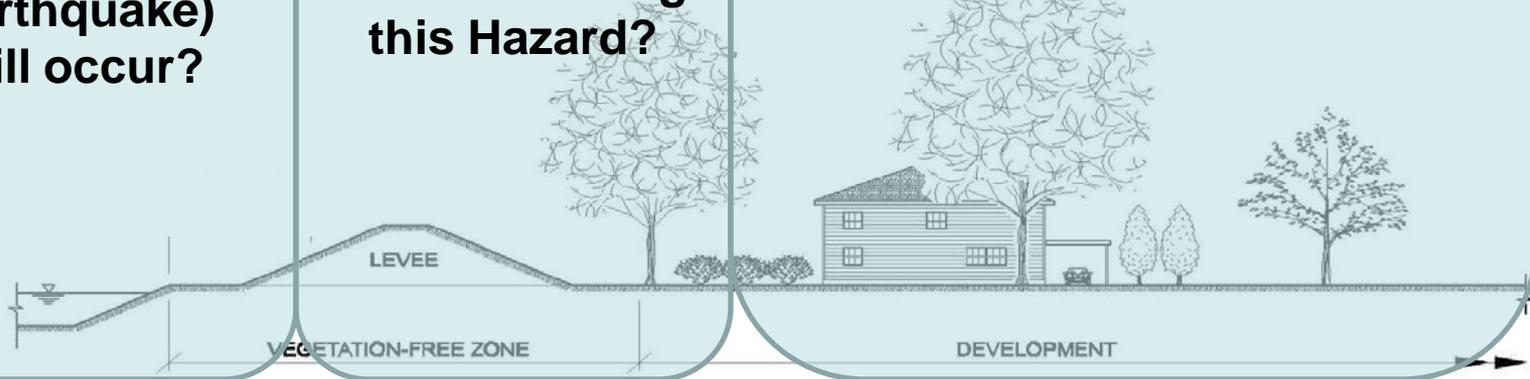
# Levee System :

*Loss of life is of paramount concern. Economic and environmental losses are also important.*

**How Likely is it that the Hazard (flood, earthquake) will occur?**

**How Will the Infrastructure Perform during this Hazard?**

**What are the Consequences for Non-Performance?**



## The USACE Risk Framework



## Levee Safety Action Classification

Class	Urgency		Characteristics	Actions
I	Urgent and Compelling	<p>Likelihood of inundation with associated consequences characterizing each class, emphasis on life-safety.</p>	<p>Actions recommended for each class and level of urgency grouped by responsible O&amp;M entity.</p>	
II	Urgent			
III	High Priority			
IV	Priority			
V	Normal			



# Levee Safety Portfolio Management Process

- **Levee Screening Outcomes:**
  - Assist in the assignment of the Levee Safety Action Classification (LSAC) for each levee system
  - Guide setting priorities for national levee safety activities
  - Identify performance concerns as well as potential consequences of a levee failure
  - Communicate levee deficiencies, qualitative conditional performance, and consequences
  - Identify issues to assist in the development of Interim Risk Reduction Measures
  - All LSAC results will be communicated to the Local Sponsors



# What Does the LSAC Tell Us?

- **Enables Consistent Communication of the Relative Risk for Living Behind a Levee System**
  - Levee's Expected Performance (Based on Condition and Flood Probability)
  - Consequences of Non-Performance
- **Informs the Urgency and Priority of Potential Federal Actions**
  - ▶ Advice on Interim Risk Reduction Measures
  - ▶ Priorities for Studies and Rehabilitation Projects
- **May not necessarily have a direct impact on:**
  - O&M Inspection Rating
  - Participation in the Rehabilitation and Inspection Program (RIP)
  - FEMA Accreditation



# USACE/Sponsor/Partner Roles

- Sponsor engaged from beginning: on inspections through screenings and assignment.
- After assignment, sponsor & USACE have joint appearance(s) to discuss risk associated with levees with public. Partners support joint message, may assist in discussion.
- USACE, Sponsors and Partners work together to develop sustainable solutions.



# Information Accessibility

## **Openly Shared Information** *(General Public)*

System Summary Report  
All Education Awareness Products  
Most National Levee Database fields  
Executive Summary of Inspection Reports  
LSAC System Assignments

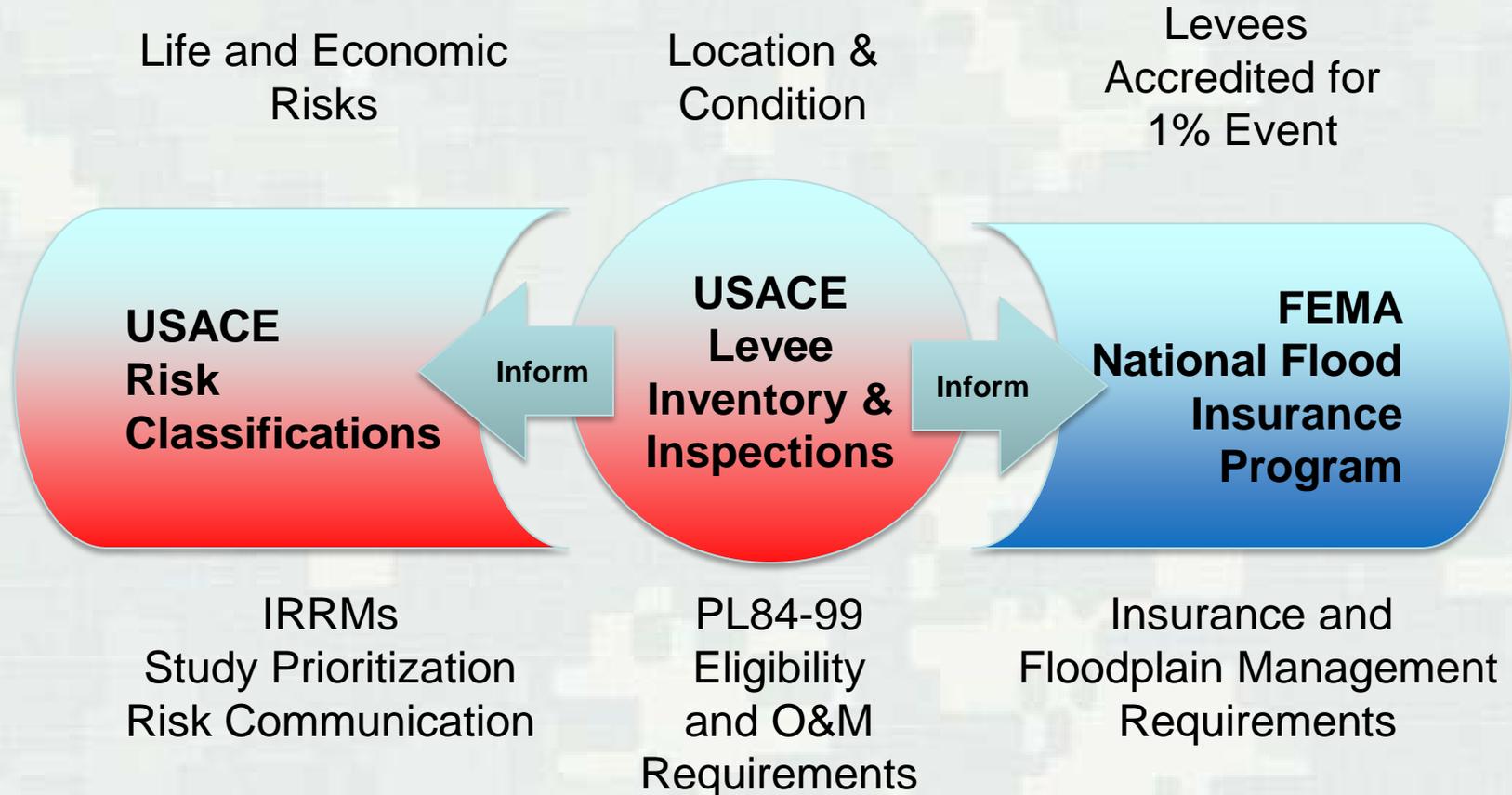
## **Safeguarded Information** *(For Official Use Only)*

- Numerical Risk Results
- Internal Fact Sheets
- Inspection Locations
- Deficiency Locations and Details
- Few NLD Data fields



# Levee Program Collaboration

## *Program Outputs*



## *Agency and Community Outcomes*



# USACE Levee Safety Portfolio in Montana

<b>Levee System</b>	<b>Current Stage in USACE Levee Safety Portfolio Risk Mgmt Process</b>
10 Federal Systems	The initial levee screening process will begin in July 2013.
1 Non-Federal System	Will begin on the non-federal system after the federal systems are complete.



# Anticipated Roll Out In Montana

- *USACE Milestone for release of all Montana LSAC assignments is September 2014*
  - ▶ *USACE will start providing the levee sponsors with all accessible information in July 2013*



# Contact Information

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<http://nld.usace.army.mil> – USACE National Levee Database

<http://www.usace.army.mil/Missions/CivilWorks/LeveeSafetyProgram> - HQUSACE Levee Safety Program



# USACE Montana Projects

## Omaha District

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### **Glendive-Section 22 Planning Assistance to States Study**

- Flood risk reduction study to determine alternatives to reduce the risk of flooding
- The economic study of the existing conditions flood risks and damages is underway with an estimated completion of August 31, 2012

### **Yellowstone River Intake Diversion Dam**

- Construction of the headworks and screen is complete. A ribbon cutting ceremony was held on April 30, 2012
- Design of the preferred rock ramp encountered cost increases and technical issues requiring additional design considerations
- Formulation of alternatives to meet the purpose of fish passage is underway



# USACE Montana Projects

## Omaha District

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### **Yellowstone River Intake Diversion Dam**

- The Draft Amended EA to re-evaluate fish passage alternatives is currently undergoing review

### **Yellowstone River Corridor Study**

- Hydrologic analysis of the basin anticipated completion by end of September 2012
- Flood boundary mapping by county anticipated completion by May 2013



# USACE Montana Projects Omaha District

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For more information on Glendive and the  
Yellowstone River Intake and the Yellowstone  
River Corridor Projects contact:

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**Tiffany Vanosdall at 402-995-2695**

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# USACE Montana Projects

## Omaha District

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### Stillwater and Sweet Grass Counties

- Yellowstone River Corridor Study hydraulic models were updated and a floodway was incorporated
- Water surface profiles and floodplain delineations for the floodway, 10-, 25-, 50-, 100-, and 500-year events are being developed
- Data review conducted by Baker and Montana DNRC
- Final floodplain mapping being conducted with database development.
- Completion is expected in September 2012



# USACE Montana Projects Omaha District

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**For more information on the Stillwater and Sweet  
Grass County Studies contact:**

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# USACE Montana Projects

## Seattle District

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### **Columbia River Treaty Modeling**

- The original Columbia River Treaty between the U.S. and Canada expires in 2024; both countries have until September 2014 to express desires for changes, continuation, or termination
- The mainstem Columbia River and major tributary drainages are being evaluated by USACE and Bonneville Power Administration for present conditions and future alternatives
- Kootenai - 80 river miles, from Libby Dam to Canadian Border; Clark Fork - 110 river miles, from Flathead confluence to Lake Pend Oreille in Idaho; Flathead and South Fork Flathead - 165 miles, from Hungry Horse Dam to Clark Fork confluence



# USACE Montana Projects

## Seattle District

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### Columbia River Treaty Modeling

- Modeling includes 1-meter LiDAR (available now), hydrology development, levee inventory, and steady/ unsteady hydraulic models
- Finalization of models scheduled for September 2012; evaluation of Treaty alternatives to follow



# USACE Montana Projects Seattle District

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**For more information on Columbia River Treaty  
Modeling contact:**

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