

Introduction to Silver Jackets for NROC

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SILVER JACKETS . . .



Interagency state-led flood risk mgt (and sometimes other hazards) teams

AND

Support by USACE National Flood Risk Mgt Program to achieve goals at state-level



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NATIONAL FLOOD RISK MGT PROGRAM GOALS

IMPROVE . . .

- How we manage flood risk.
- How we support others who are managing flood risk.
- Linkages between flood risk management and other water resources challenges and opportunities.



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SILVER JACKETS CONCEPTS

Silver Jackets teams are state-led

- Emphasis on state leadership
- Supported by USACE SJ Coordinator
- Supported by other Federal agencies too

SJ teams facilitate interagency projects & activities

- Each agency funds its own participation and work
- USACE Flood Plain Management Services Program (FPMS) funds set aside to provide USACE technical assistance to support interagency efforts



State SJ Team Participation

■ State

- Typically - State Hazard Mitigation Officer and National Flood Insurance Program Coordinator
- Others – CTP, Emergency Managers, Water Boards, Transportation Dept., Environmental Protection, Geographic Information System Analysts



■ Federal

- Typically - FEMA, NOAA NWS, USGS, USACE
- Sometimes - EPA, DOT, HUD, NRCS, NOAA OCM
- Region Specific - BLM, USFS, USFWS, USBR, NPS



- **Others** - Tribes, local governments, NGOs, universities, and/or private



Life-cycle Risk Management

Activities are Funded by Various Agency Programs

PREPARATION / TRAINING

- Inundation Forecast Mapping
- High Water Mark Training
- Tabletop Exercises
- CRS
- Joint Levee Safety Communication

RESPONSE

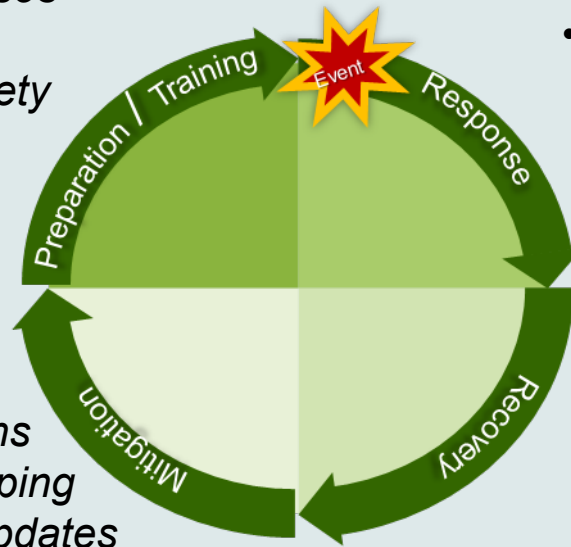
- Real-Time Inundation Map
- Inter-state Basin Coord.
- Emergency Action Plans
- Flood Warning Systems
- Emergency Support Function

MITIGATION

- Buy-outs
- Evacuation Plans
- Inundation Mapping
- HAZUS Data Updates
- Hazard Mitigation Plan Updates and Actions
- Interim Risk Reduction Measures
- Flood Insurance Rate Maps
- Watershed Assessments

RECOVERY

- Nonstructural Measures
- Hazard Mitigation Grant Programs
- Nonstructural FRM Workshops
- Flood Risk Mgt. Training & Education
- National Disaster Recovery Framework



*Silver
Jackets
teams
collaborate
with Life-
Cycle Risk
Mgt in mind.*



Interagency nonstructural efforts (FPMS)

Set-aside under FPMS, in addition to those FPMS funds normally allocated to Districts

- Interagency
 - At least 2 governmental partners beyond USACE
 - Other partners as helpful; not limited to governmental
- Nonstructural
 - Seek to reduce flood risk through nonstructural means
 - Reduce flood consequences (as opposed to altering nature or extent of flood hazard)

Goals:

- Collaborative work with partners
- Integrated solutions
- Outcomes: include or enable flood risk management action

Proposal process to allocate funds internally (typically for USACE labor)



Some Activities & Products

Floodplain delineation

Flood hazard evaluation

Hurricane evacuation

Flood warning / preparedness

Comprehensive floodplain management

Flood risk reduction

Urbanization impacts

Storm water management

Flood proofing

Inventory of flood-prone structures

Workshops

Guides and Pamphlets / Risk Communication

Tabletop exercises

Emergency Action Plan / Floodplain Management Plan Assistance

Assessment tools and processes

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Interagency Nonstructural Efforts in Coastal New England

- Risk Communication:
 - ▶ ME High Water Marks: Portland, York, South Portland, Scarborough and Belfast
 - ▶ MA High Water Marks: Boston
- Nonstructural Approaches
 - ▶ Gardiner ME Flood Proofing Study
- Modelling and Mapping Tools
 - ▶ ME Dynamic Inundation Mapping Project: Casco Bay
- Information Sharing
 - ▶ NH Flood Hazards Handbook
 - ▶ CT Flood Toolkit
- Analysis and Assessment
 - ▶ RI Historical Structure Flood Hazard Vulnerability Assessment



SEARCHABLE INTERAGENCY PROJECT TABLE

<http://silverjackets.nfrmp.us/Resources/Interagency-Projects>



Home > Resources > Interagency Projects

Interagency Projects

- [Interagency Project Posters](#)

Poster summaries of 142 interagency projects presented at the 2017 Interagency Flood Risk Management Workshop in St Louis.

Search Something...

State	Name	Description	Partners
AK	Juneau Jokulhlaup Inundation Report	Provide information for the future modeling of jokulhlaups (glacier outburst) and better delineation of at-risk areas	NOAA, USACE, USGS, Local
AK	Koyukuk High Water Mark Information Gathering	Collect high-water marks, document flood history, provide a flood information report to the community, and provide a bilingual flood risk awareness poster in order to make people in Koyukuk and surrounding communities more aware of their flood risks.	Tribes, USACE, State, Local
AK	Northwest Arctic Borough Data Gathering and Dissemination Effort	This project provides five villages in the NWAB with LiDAR and a bi-lingual flood hazard information poster for dissemination throughout the Borough.	USACE, State
AK	Willow Creek Predictive High Water Scenario Planning	Perform high water scenario modeling and mapping of Willow Creek by augmenting recently released FEMA maps to identify specific areas at risk beyond the regulatory floodplain; develop potential flood risk reduction measures.	NOAA NWS, USACE, USGS, State, Local, Private
AL	Alabama Flood Warning System Enhancement Project	This effort will yield completed inundation maps for Birmingham hosted on NOAA NWS website, build points to reduce flood insurance premiums, and improve flood risk communication.	FEMA, NOAA NWS, USACE, USGS, State, Local
AL	Valley Creek Inundation Mapping (Birmingham)	Build a hydrology and HEC-RAS model to complete inundation maps that will be hosted on NOAA NWS website.	NOAA, USACE, State, Local
AL	Village Creek Property Flood Risk Reduction Assessment	Update existing structure inventory and perform non-structural flood risk analysis with recommendations on a structure by structure basis.	FEMA, USACE, State, Local
AR	Bob Kidd Dam Flood Risk Assessment, Mitigation Plan	A multi-purpose study to assess flood hazards, residual flood risk, dam break flood risk scenarios, and a mitigation strategy with an effective emergency response and communication plan, such as early warning systems.	USACE, USGS, State

Example Project Summary Poster

NEVADA

Nevada Flood Risk Awareness Project

Project Description

- The Corps participated in several Nevada Flood Awareness week events and provided educational outreach materials for public dissemination.
- Nonstructural flood proofing techniques were presented at workshops in Reno and Minden, NV.
- Stories, photos, maps and vignettes of past flooding on the Humboldt River were posted to the NV Silver Jackets website as part of the Nevada flood chronology project.

Flood Risk Reduction Benefits

- By making information publicly available, people are more aware of the effects of their actions in the watershed.
- Local outreach was conducted to inform and educate the public on local flood risks so that they can make informed decisions about threats to life and property.

Humboldt River Bridge

Humboldt River flowing through Carlin Canyon

Partners and Project Cost

Agency	Investment
USACE	\$140K
NV Department of Water Resources	\$40K in-kind
U.S. Geological Service	\$40K in-kind
National Weather Service	\$20K in-kind
Total Cost:	\$240,000

Successes/Best Management Practices

- Information and examples provided can be used by local communities to avoid impacts to the watershed.
- When citizens know their flood risk, they can make informed decisions to minimize their risk and the costs associated with emergency response during flood events.
- Public outreach during Flood Awareness Week will help agencies and communities work together to spread the word on flood risks.

Project Point of Contact

Margaret Engesser
USACE Sacramento District

File Name



US Army Corps
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Key Takeaways

- Two program sources for Silver Jackets:
 - ▷ Flood Risk Management (FRM) for Coordination and Collaboration
 - ▷ Flood Plain Management Services (FPMS) for the Interagency Non-Structural Efforts (Technical Assistance)
- Silver Jackets teams are State run, each state has different team members depending on their needs.
- Additional opportunities for project collaboration:
 - ▷ Flood Plain Management Services within each USACE district
 - ▷ Continuing Authorities Program (CAP)
 - ▷ And more...



Questions?

FOR MORE INFORMATION

USACE Silver Jackets Web Site

<http://silverjackets.nfrmp.us/>

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