

FEMA REGION X
RISK MAP DISCOVERY INTERVIEW
CITY OF LEAVENWORTH, WASHINGTON
March 31, 2015 2:00 PM PST

Participating

City of Leavenworth

- Nathan Pate

FEMA Region X

- Amanda Siok
- Ted Perkins

STARR (FEMA Contractor)

- Becca Fricke-Croft, Meeting Host
- Troy Sova
- Emily Whitehead
- Josha Crowley

Discussion

Becca Fricke-Croft made introductions and presented an overview of the RiskMAP program and the different projects and products that can benefit communities. Our overall goal is discovering how FEMA can help Leavenworth become a more hazard and disaster-resilient community. A copy of the presentation is included with these meeting notes as Appendix A.

Pre-Discovery meetings and interviews with communities within the Wenatchee Watershed have been scheduled throughout March and April, 2015. The Discovery Meeting is scheduled for Wednesday, May 6, 2015.

The following information was collected during the interview. Unless otherwise noted, all comments are from the City of Leavenworth representatives.

Community Contacts

- Becca and Nathan confirmed our list of contacts and made an addition.
 - o Add Public Works Director Herb Amick

Data Collection & GIS Discussion

- Nathan recommended we contact Bill Gould with WA DOT for additional GIS data that may be available through the state.

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- Leavenworth does not have dedicated GIS staff. Jones Consulting does their mapping work (Emily should contact Nathan separately for Chuck Jones' email address)
- Troy explained that the floodplains seen on-screen are Q3 floodplains which means the boundaries were digitized from the hard copy, effective FIRMs.
 - o Check with Jones Consulting regarding the floodplain layer the City uses
 - o Mentioned soils layer

Community Background & Planning :

- Leavenworth has an extensive trails system
- Nathan marked up the discussion map shown on the webex screen:
 - o Water treatment plant
 - o Well field
 - o Golf course
 - o Three municipal parks
 - o Outfall locations

Earthquake Hazard

- Older buildings downtown are vulnerable to earthquake damage—not constructed to modern building codes
- A technical assessment study took place, based on local knowledge, less on geology/earthquake analysis

Wildfire Hazard

- More concerned about neighboring communities than with Leavenworth itself

Landslide Hazard

- Nathan marked up discussion map with areas vulnerable to landslides—these will be illustrated on Discovery Map

Severe Storm Hazard

- History and frequency
 - o Last few winters in Leavenworth have been relatively mild, normally the area averages over 90 inches of snowfall

Mass Communication & Warning Systems

- Leavenworth uses normal mass media outlets for storm notification, does not have anything unique like reverse 9-1-1

Flood Hazard

- Confluence of Icicle Creek and Wenatchee River may be inaccurately mapped

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- Undersized infrastructure inside city contributes to flooding problems. The City knows where these structures are located and are working with a consultant to develop a strategic plan for improving them.

Environmentally Sensitive Areas

- Wellhead protection areas, wetland inventory areas, soil mapping (some of these may be available through Chuck Jones, Jones Consulting)

Communications and Outreach

- City uses quarterly newsletter for community outreach
- Annie Schmidt, Director of Chumstick Wildfire Stewardship, works with the City on wildfire hazard awareness, outreach activities (invite to Discovery Meetings)

PO Box 2223

Leavenworth WA 98826

director@chumstickcoalition.org

509-630-2836

Appendix A: Interview Presentation



FEMA

Risk MAP Discovery

Okanogan & Wenatchee Watersheds

Information Exchange Sessions
March/April 2015

RiskMAP

Increasing Resilience Together



Information Exchange Agenda

- **Overview of Risk MAP and Discovery**
- **Introduction to Enhanced Risk MAP Products**
- **Interactive Questionnaire**
- **Close**

The Vision for Risk MAP

Through collaboration with State, Local, and Tribal entities, Risk MAP will deliver quality data that increases public awareness and leads to action that reduces risk to life and property



RiskMAP

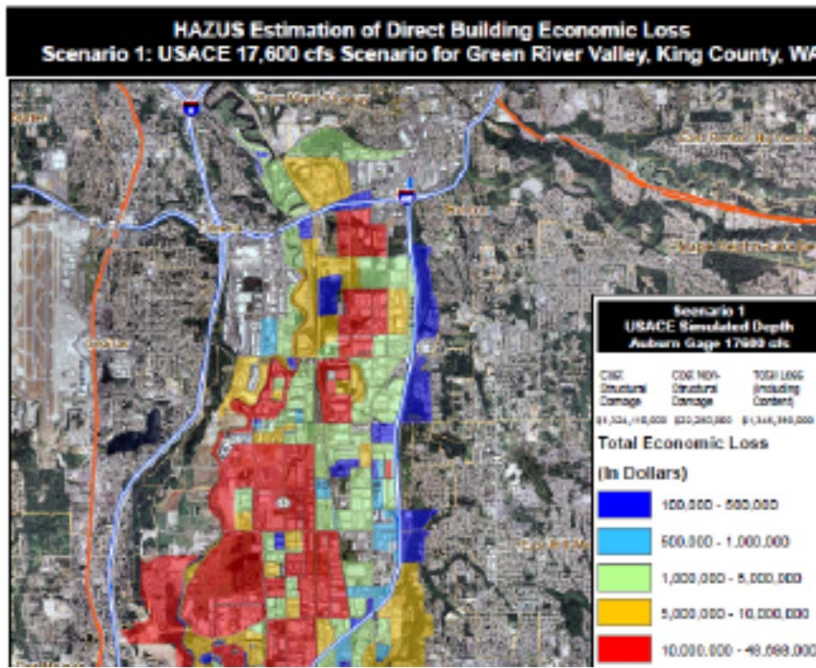
Increasing Resilience Together

- Collaborative approach
- Goals: quality data, public awareness, action that reduces risk
- Watershed-oriented
- Multi-Hazard
- Focus on up-front coordination
- Discovery is mandatory

Risk MAP Products

Multi-Frequency Depth & Water-Surface Elevation (WSE) Grids

10%, 2%, 1%, 0.5%, 0.2% annual chance profiles



Inundation

- 3 feet or less
- 3 to 6 feet
- 6 feet +

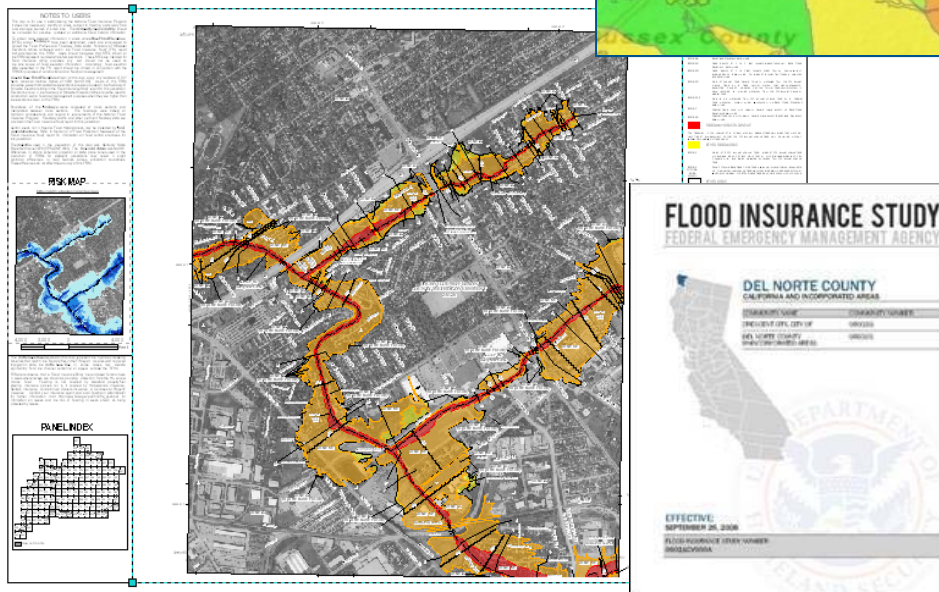
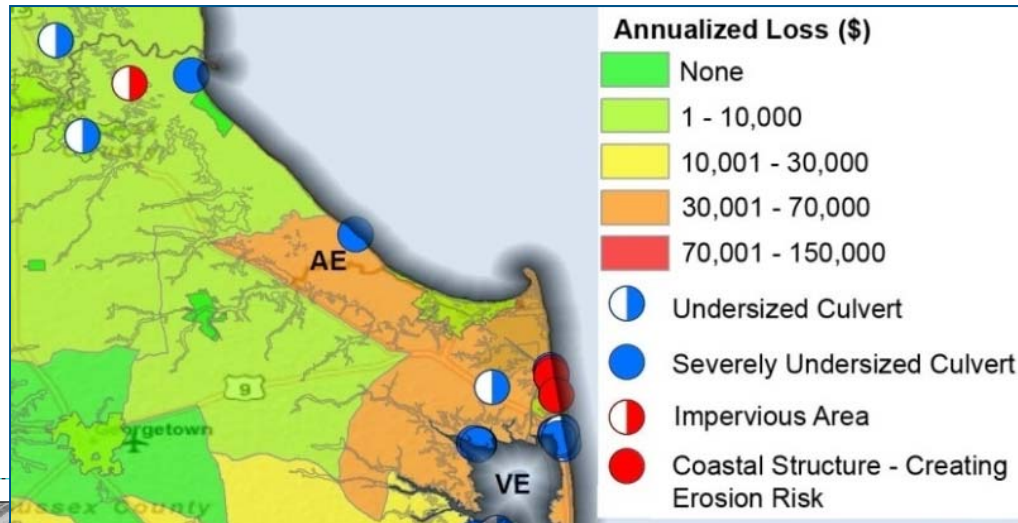
HAZUS Risk Assessment & National Flood Risk Layer

Enables communities to understand risk by reference to existing structure loss

Risk MAP Products

Contributing Hazard Factors

Highlights areas of concern identified throughout project



FIS Reports and DFIRM Maps

DFIRM and FIS will continue to fulfill regulatory requirements and support the NFIP

Discovery

Discovery is the process of data collection and analysis with the goal of initiating a hazard risk or mitigation project and risk discussions within the watershed

When:

- After an area/watershed has been prioritized
- Before a Risk MAP project is scoped or funded

Required for new and updated...

- Flood studies
- Flood risk assessments
- Mitigation planning technical assistance projects

Why:

- Increases visibility of flood risk information, education, involvement
- Helps inform whether a Risk MAP project will occur in the watershed



Okanogan & Wenatchee Discovery

- **Federal and State Data Collection**
- **Local Issues: Identify Risk MAP Needs**
 - Need support with mitigation planning?
 - Need mitigation projects?
 - Need new flood study data?
 - Need training on floodplain management?
 - Need support developing a hazard risk outreach program?
 - What else can FEMA do to help your community become resilient?
- **Pre-Discovery Interviews: March/April 2015**
- **Discovery Meetings: May 4-6, 2015**
- **Risk MAP Project(s) Identified**
- **Possible FEMA Funding Allocated for Risk MAP Project**

Discovery Interview

- **Local Contacts**
- **Data**
 - LiDAR
 - Local or Regional GIS Data
- **Mitigation Planning**
 - Desired Mitigation Projects
- **Local Hazards**
 - Earthquakes
 - Wildfires
 - Landslides
 - Severe Storms
 - Flooding
- **Levees**
- **Environmentally Sensitive Areas**
- **Communications and Outreach**
- **Compliance and Training**

Mitigation Planning		
How would you describe your level of involvement with the development of the mitigation plan? (Considerable, Moderate, Minimal)	Do you need assistance with mitigation planning in your community? (Yes, No, Possibly)	Mitigation Planning Comments, Explanations, Questions

Questions?

FEMA

- **Amanda Siok, Risk Analyst, amanda.siok@fema.dhs.gov**
- **Kristen Meyers, Mitigation Planner, kristen.meyers@fema.dhs.gov**
- **Ted Perkins, Regional Engineer, dwight.perkins@fema.dhs.gov**

WASHINGTON

- **Jerry Franklin, State Risk MAP Coordinator, jfra461@ecy.wa.gov**
- **Michelle Gilbert, Floodplain Management Specialist, migi461@ecy.wa.gov**

STARR

- **Emily Whitehead, emily.whitehead@stantec.com**
- **Troy Sova, troy.sova@stantec.com**
- **Becca Fricke-Croft, becca.croft@starr-team.com**