Risk MAP Discovery Meeting Ketchikan Gateway Borough



July 7, 2013





Agenda

- Introductions
- Overview of Risk MAP
- Community Discussion
- Wrap Up

Introductions



How Risk MAP can help your community.....



Develop GIS data to capture community assets Capture or Develop Hazard Data

Estimate Losses

Develop Problem Statements



Tables and Maps of Community Assets
Maps & Data of Prevalent Hazards
Mitigation Plan Input



Potential Community Assets

- Agriculture and Food
- Banking and Finance
- Chemical
- Commercial Facilities
- Communications
- Critical Manufacturing
- Dams
- Defense Industrial Base
- Emergency Services
- Energy
- Government Facilities
- Healthcare
- Information Technology
- Nuclear Reactors, Materials and Waste
- Postal and Shipping
- Transportation Systems
- Water

Flood

- Existing Studies
- USACE Studies
- New FEMA Studies

Wildfire

Alaska DNR – Division of Forestry

Landslide

Alaska DNR - DGGS

Earthquake/ Tsunami

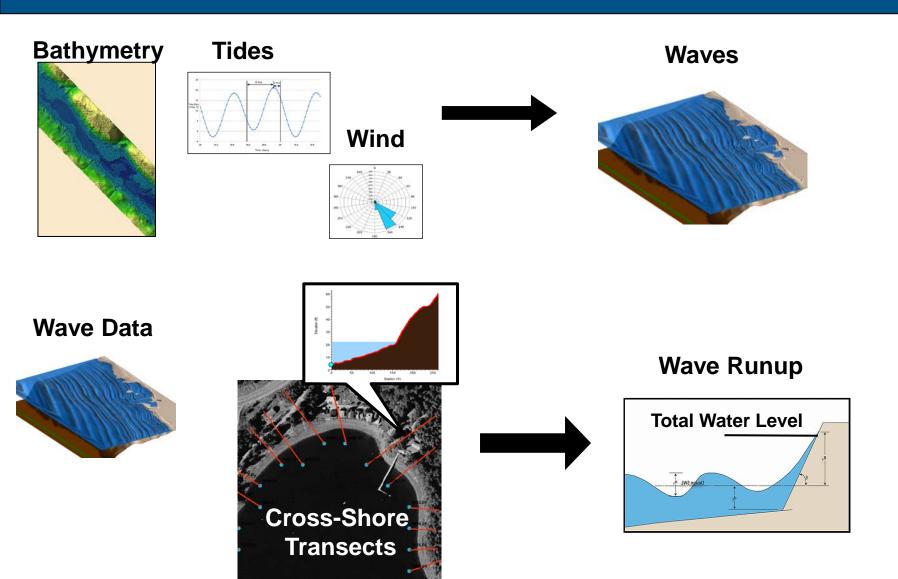
- Alaska DNR DGGS
- USGS/NOAA

Develop GIS data to capture community assets

Capture or Develop Hazard Data

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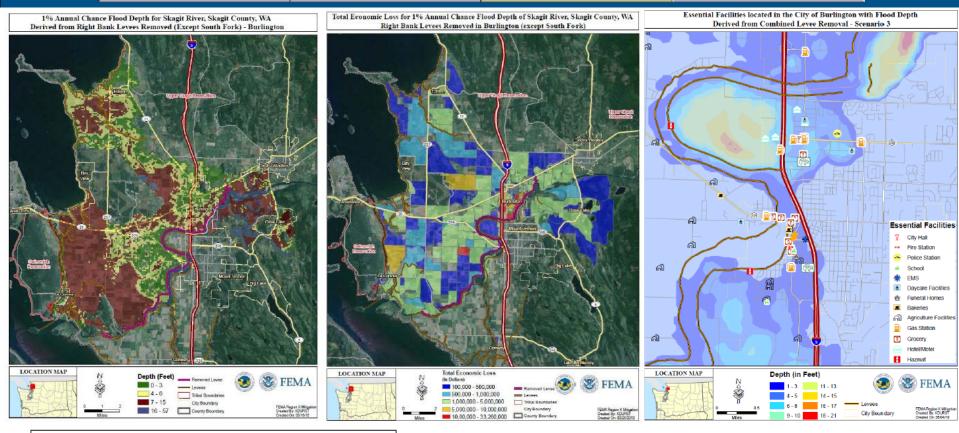


Develop GIS data to capture community assets

Capture or Develop Hazard Data

Estimate Losses

Develop Problem Statements



Loss Category	Residential	Commercial	Industrial	Others	TOTAL
Building Loss					
Building	\$135.7M	\$44.3M	\$11.7M	\$14.8M	\$206.5M
Content	\$86.2M	\$113.5M	\$24.5M	\$45.2M	\$269.4M
Inventory	\$0	\$4.7M	\$4.8M	\$5.5M	\$15.0M
Subtotal	\$221.9M	\$162.4M	\$41.1M	\$65.5M	\$491.0M
Business Interruption					
Income	\$40K	\$710K	\$10K	\$390K	\$1.2M
Relocation	\$440K	\$280K	\$0	\$0	\$720K
Rental Income	\$190K	\$190K	\$0	\$0	\$380K
Wage	\$110K	\$850K	\$0	\$2.1M	\$3.0M
Subtotal	\$780K	\$2.0M	\$10K	\$2.4M	\$5.3M
TOTAL	\$222.7M	\$164.5M	\$41.1M	\$67.9M	\$496.2M

Table 12. Scenario Comparison of HAZUS Results for 2% annual chance flood

50 year Scenario	Total	Economic	Substantially	Displaced	Debris
183,780cfs Discharge	Economic	Loss Ratio	Damage	Population	(Tons)
near Sedro-Woolley	Loss		Buildings		
Scenario A	\$411.5 M	17.0%	144	13,820	76,645
(Burlington Levee)					
Scenario B (Mount	\$478.8M	19.8%	135	10,368	79,697
Vernon Levee)					
Scenario D	\$720.5 M	29.8%	143	19,363	117,875
(Combined Levees)					

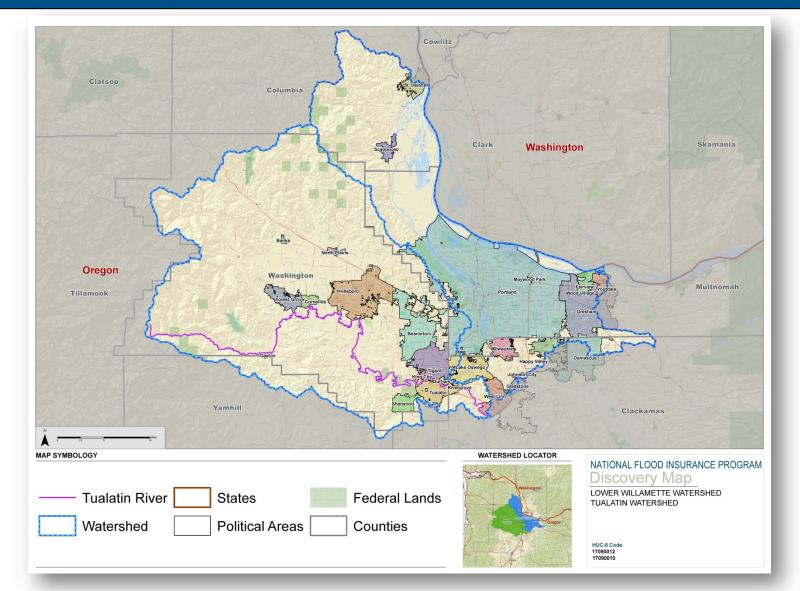
Review and analyze the results of the hazard loss estimations

Identify areas with highest vulnerabilities on a map

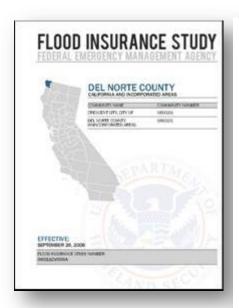
Develop list of problem statements based on findings

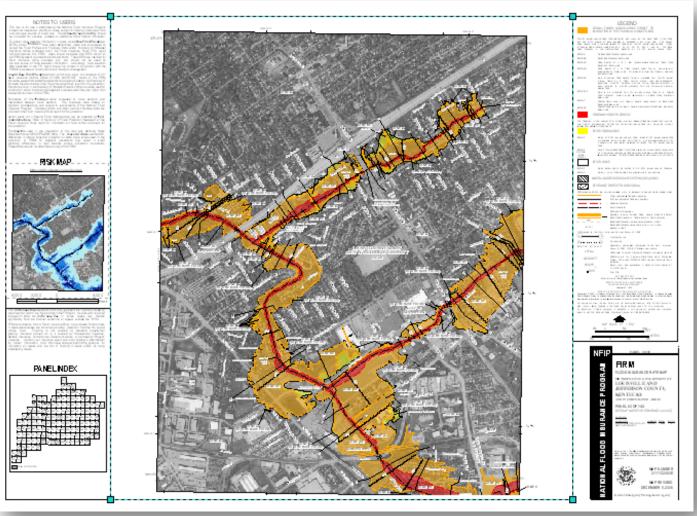
- The manufactured home park is the most vulnerable area to flooding. This area floods each year. Flooding is caused by excessive rains
- The sewage treatment plant is located in the 100-year floodplain
- The lighthouse, of significant historic value, is threatened by erosion from coastal flooding. The rate of erosion is 5 feet per year.

How we can help...... Mapping Needs



Risk MAP DFIRM/FIS





How we can help..... Technical Support & Training

- NFIP Training and Technical Support
- Outreach Support
- Hazus Training and Technical Support
- Hazard Mitigation Planning Support
- ...other training needs?

Community Discussion

- Determine areas of concern regarding natural hazards
- Discuss activities to mitigate natural hazard risk
- Identify flood study priorities
- Training needs
- Potential risk assessments
- Communication and public outreach
- Discuss additional data, resources, or funding that may be needed to implement solutions
- Relationship to mitigation plan

Review and Prioritize

- Top flood study priorities?
- Other top priorities?
- Overall number 1 priority?

Next Steps

- Draft discovery report within 2 months for your review
- FEMA will review and prioritize potential projects internally based on need and funding availability
- Notify Community of potential projects
- Draft Partnership Agreements with Communities
- Finalize Scopes of Works
- Share Scopes with impacted communities and Finalize Partnership Agreements

Sitka Borough Risk MAP Study Team

- Sally Russell Cox, Alaska DCCED, State RiskMAP Coordinator
- Taunnie L. Boothby, Alaska DCCED, State NFIP Coordinator
- Ann Y. Gravier, Alaska DHS, State Hazard Mitigation Officer
- Kristen Meyers, FEMA Mitigation Planner
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- Karen Wood-McGuiness, FEMA NFIP Coordinator
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- Emily Whitehead, Project Manager (STARR)
- Josha Crowley, Regional Service Center (RSC) Lead (STARR)
- Becca Croft, RSC Outreach/Training Coordinator (STARR)