Risk MAP Discovery Meeting Municipality of Anchorage



April 22, 2013





Agenda

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

Introductions



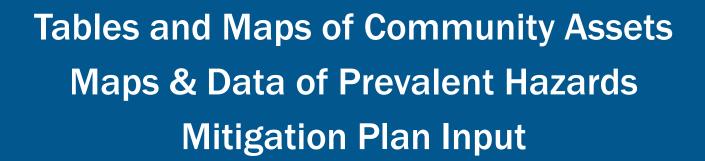
How Risk MAP can help your community.....



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

Estimate Losses

Develop Problem Statements





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

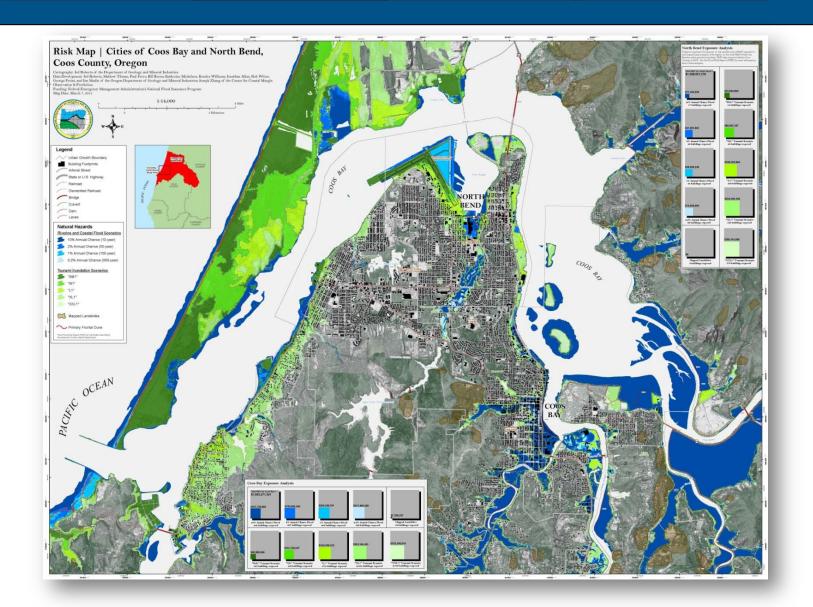
Alaska DNR – Division of Forestry

Landslide

Alaska DNR - DGGS

Earthquake/ Tsunami

- Alaska DNR DGGS
- USGS/NOAA

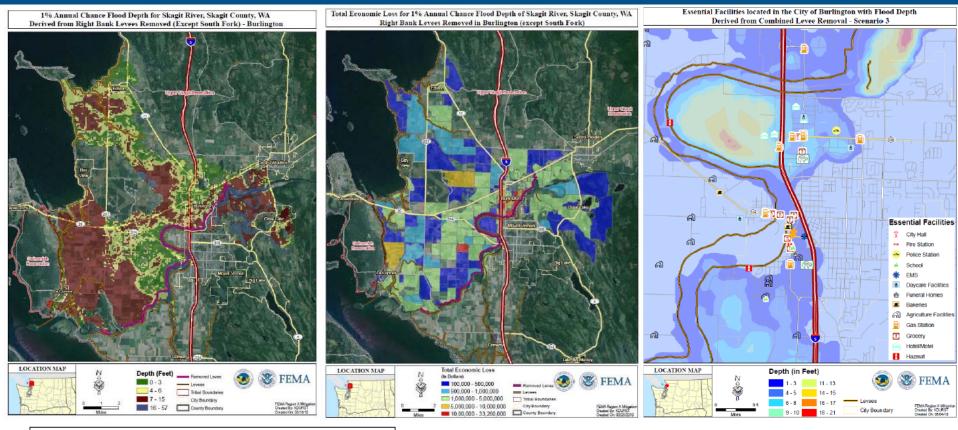


Develop GIS data to capture community assets

Capture or Develop Hazard Data

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)					

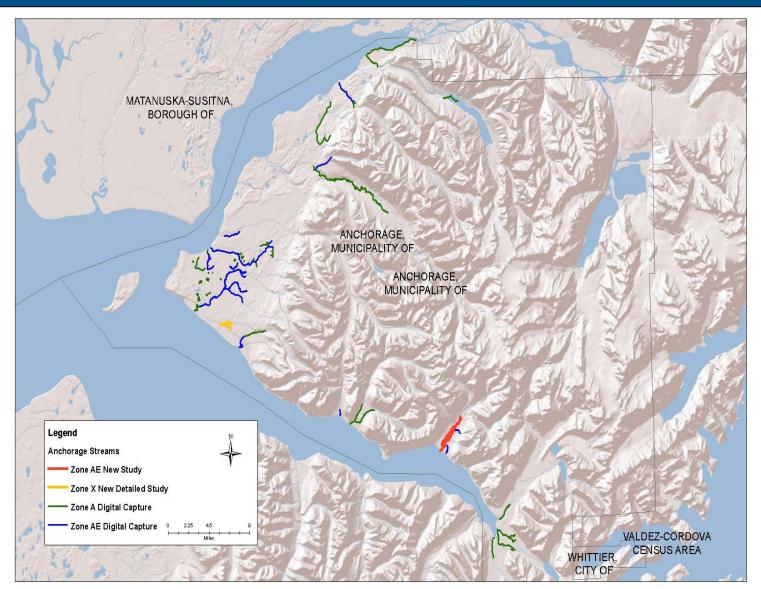
Review and analyze the results of the hazard loss estimations

Identify areas with highest vulnerabilities on a map

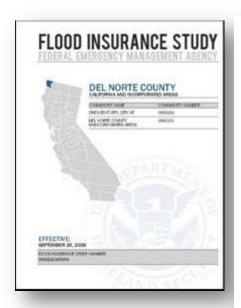
Develop list of problem statements based on findings

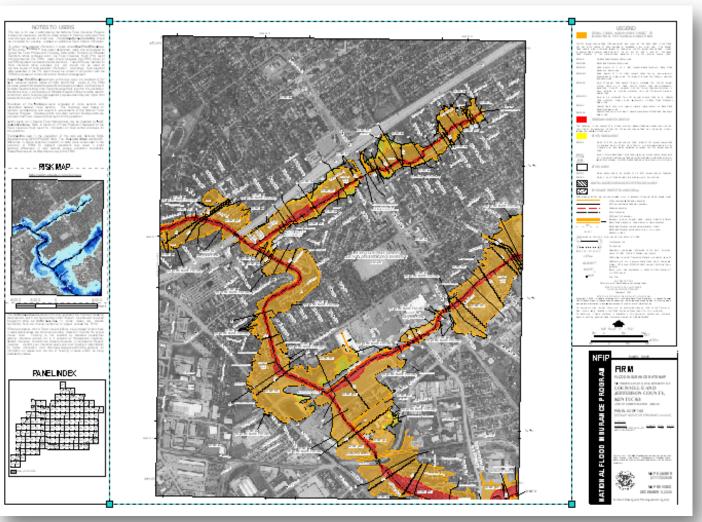
- The manufactured home park is the most vulnerable area to flooding. This area floods each year. Flooding is caused by excessive rains
- The sewage treatment plant is located in the 100-year floodplain
- The lighthouse, of significant historic value, is threatened by erosion from coastal flooding. The 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
- Risk Assessment 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 and Finalize Partnership Agreements

Municipality of Anchorage 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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- Jen Monroe, FEMA Risk Analyst
- Karen Wood-McGuiness, FEMA NFIP Coordinator
- Fred "Sonny" Kunchick, FEMA HMA POC
- Emily Whitehead, Project Manager (STARR)
- Josha Crowley, Regional Service Center (RSC) Lead (STARR)
- Becca Croft, RSC Outreach/Training Coordinator (STARR)