

Risk MAP Discovery

City and Borough of Sitka

Information Exchange Session June 2013





Information Exchange Agenda

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



Overview: Risk MAP



- Five year effort to modernize maps
- Result: digital flood data and digital maps for 92% of population
- Improved flood data quality
- Limited to flood hazards
- Limited up-front coordination
- Scoping not mandatory

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



The Vision for Risk MAP

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



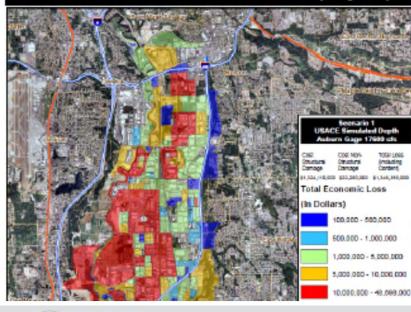


Risk MAP Products

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

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

HAZUS Estimation of Direct Building Economic Loss Scenario 1: USACE 17,600 cfs Scenario for Green River Valley, King County, 1





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

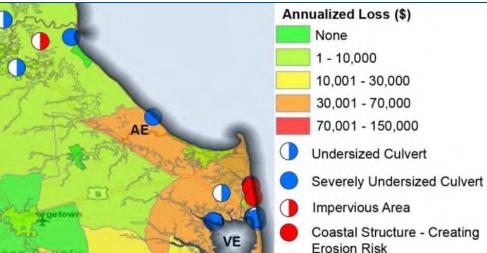


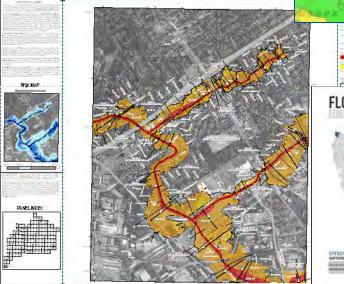


Risk MAP Products

Contributing Hazard Factors

Highlights areas of concern identified throughout project







FIS Reports and DFIRM Maps

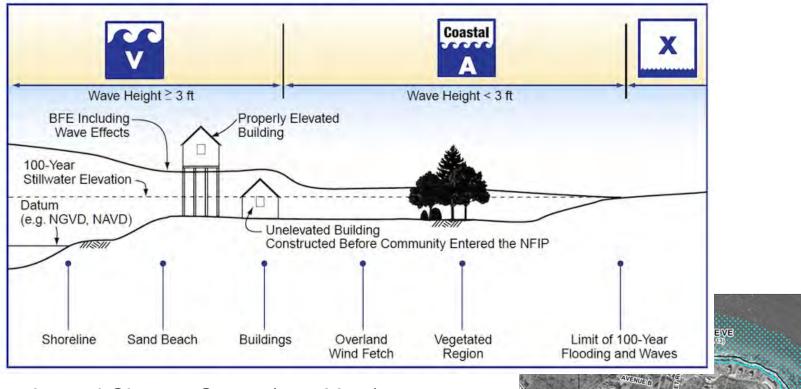
DFIRM and FIS will continue to fulfill regulatory requirements and support the NFIP





Coastal Mapping

Typical shoreline-perpendicular transect used in the analysis of stillwater and wave crest elevations.



1% Annual Chance Storm (100-Year) Stillwater elevation (tide plus surge) Plus Wave Elevation Plus Wave Run-Up



ZONE AE

ZONE VE

ZONE AF



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





City and Borough of Sitka 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?
- Discovery Meetings: July 2013
- Risk MAP Project(s) Identified
- Possible FEMA Funding Allocated for Risk MAP Project



Discovery Questionnaire Overview

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

Miti	gation 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



Contact Information



- Is our contact information complete and accurate?
- Are there others we should contact before the Discovery meeting?





Topographic Data - LiDAR

s	AL	AM ta - LiDAR	
nts, ns, Iuding Ieral SAs)	Are you aware of existing or planned additional topographic data? (Yes, No, Possibly)	LiDAR Comments, Explanations, Questions (Including general coverage area, date , and accuracy of additional data collection)	Trans L

- Assumed that new LiDAR needed.
- Any additional data?



Local and Regional GIS Data

	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	
					Lo	cal or Regiona	l GIS Data					
ons I	Transportation Layers	Political Boundaries	Land Use Data	Parcel Data	Building Footprints	Inundation Areas from Historic Flooding	Essential Facility Data	Wetlands or Environmentally Sensitive Data	Ortho- photography	Other	GIS Contact Information or GIS Data Comments, Explanations, Questions	aı

- Local and regional data can be used in regulatory or non-regulatory products
- Helpful in identifying levels of risk within community for educational purposes





Mitigation Planning

- What do you value in your community?
- How much were you involved with developing your current plan?
- Do you desire support with planning in the future?
- What kind of technical assistance or support would you benefit from?



Desired Mitigation Projects

- Does your current plan include all desired mitigation projects?
- Repetitive loss structures in your community?
- Do you have evacuation, response, or recovery plans adopted and in practice?
- Does your emergency management office have a plan for resilience?
- Are there other flood-related mitigation projects that you will be adding to your next mitigation plan update? Where? Why?
- Past grant projects? Successes?

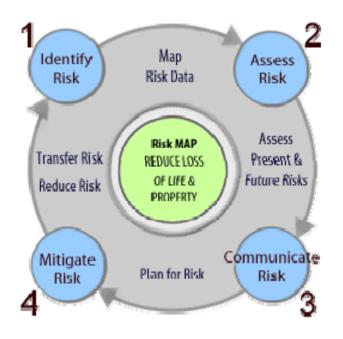


Local Hazards

- Earthquakes
- Wildfires
- Landslides
- Severe Storms
- Flooding

Things to consider

- Hazard areas mapped?
- Response plans in place?
- Is mitigation possible?
- Are your citizens aware of the hazard?
- How to communicate hazards and motivate risk reduction





Levees

	Y	Z	AA	AB	AC	
			Levees	-		
rage	Are there levees in your community that provide protection from the base (100- year) flood? (Yes, No, Possibly)	Flooding source and general location of levee?	Do you know if these levees meet FEMA 65.10 requirements? (Yes, No, Possibly)	If yes, do you have the documentation to support recertification? (Yes, No, Possibly)	Levee Comments, Explanations, or Questions (including levee owner or POC for certification docs)	How your with th (Con

- Know of any in your community? Where?
- Provide base (100-yr) flood protection
- Certification of compliance with 65.10



Environmentally Sensitive Areas

	LA	AK			
	Environmentally Sensitive Areas				
ing ion and a)	Are there ESAs in your community that should be considered in flood- related projects? (Yes, No, Possibly)	ESA Comments, Explanations, Questions (including type and general location of ESAs)	Are y e a topog (

- Any ESAs in your community?
- Locations and details welcome



Communications and Outreach

	AY	AZ	ВА	BB Communication	BC	BD	BE	BF	
t or i, is,	In general, what is the current awareness level about flood risk among your citizens? (High, Low, Mixed)	If levees present, what is the current awareness level of flood risk among residents living behind levees? (High, Low, Mixed)	Thoughts on anticipated residents' reactions to updated flood study results? (Positive, Negative, Indifferent, Mixed)	Special flood-related outreach programs, such as in response to federally-declared disasters? (Yes, No)	Has the community found any particular type of outreach that works better to communicate risk to the different demographic groups? (Yes, No, Not Needed)	that officials hold where	take a proactive approach in educating citizens about their risk and steps	Communication and Outreach Comments, Explanations,	

- Residents look to local officials for flood risk information
- Risk MAP to provide tools, templates, resources to support local officials in communication
- Goal to increase local knowledge of flood risk (not just insurance requirement)



Compliance and Training

	BG	BH	BI	BJ	-					
	Compliance and Training									
and ints,	Does your community have a identified Floodplain Administrator? (Yes, No, Unsure, Floodplains Managed by Other Entity)	Do you have a floodplain permitting process? (Yes, No, Unsure)	Is training or other support in floodplain management needed? (Yes, No, Possibly)	Compliance Comments, Explanations, Questions	Risk N					

- Need support with your floodplain management program?
- Could use a little training?



Questions?

FEMA

- Jennifer Monroe, Risk Analyst, jennifer.monroe@fema.dhs.gov
- Kristen Meyers, Mitigation Planner, kristen.meyers@fema.dhs.gov

Alaska

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STARR

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