H A Z A R D S FACING Lower Elwha Klallam 7ribe 2010 LEKT Tribal Hazard Mitigation Plan



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What are hazards?

- A hazard is a situation that poses a level of threat to life, health, property, or environment.
- Natural or Man-made

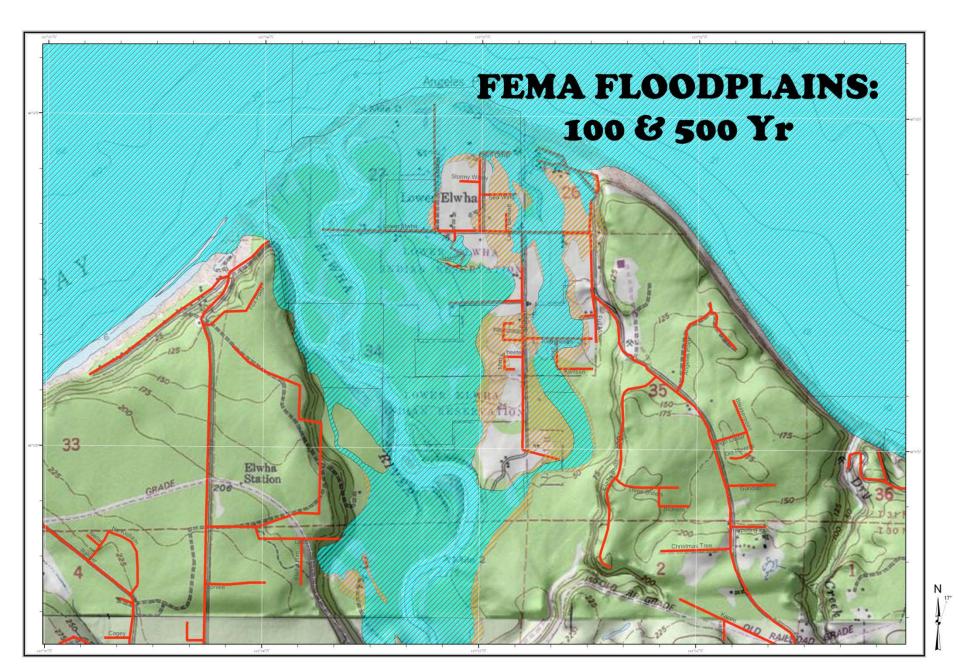
• Examples?

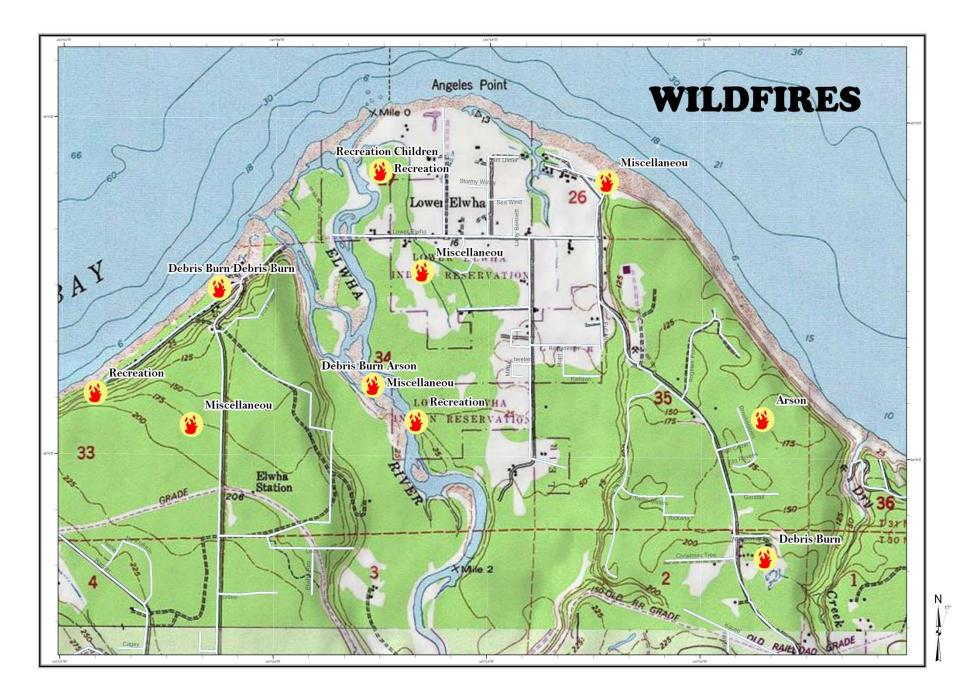
What are hazards? (cont.)

 It is important to note that naturally occurring geological events are not hazards themselves, but only become so when they adversely affect people and their property.

Hazards Affecting Lower Elwha Klallam Tribe:



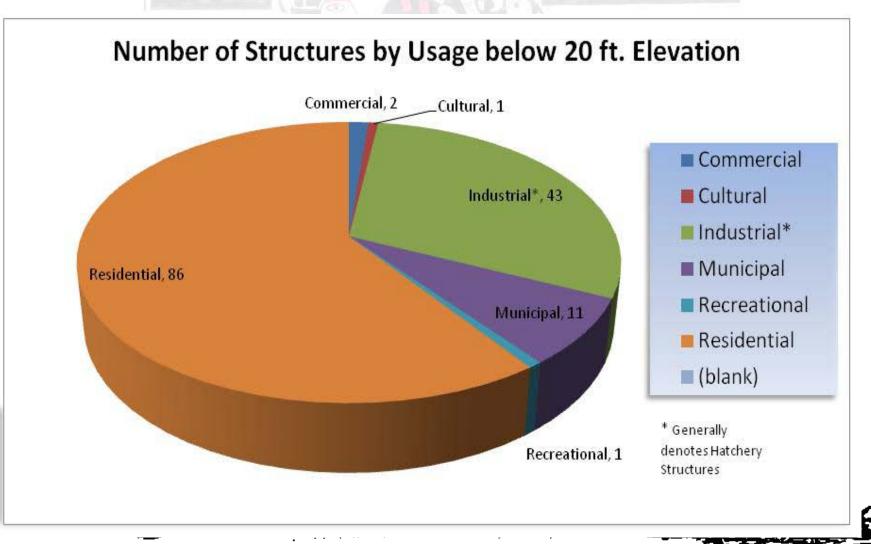


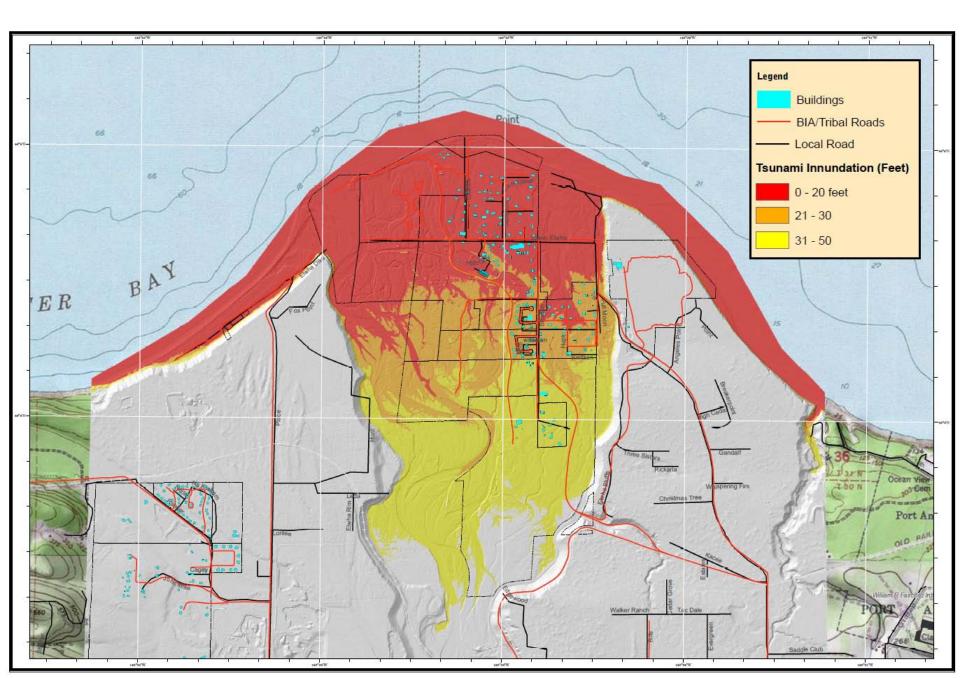


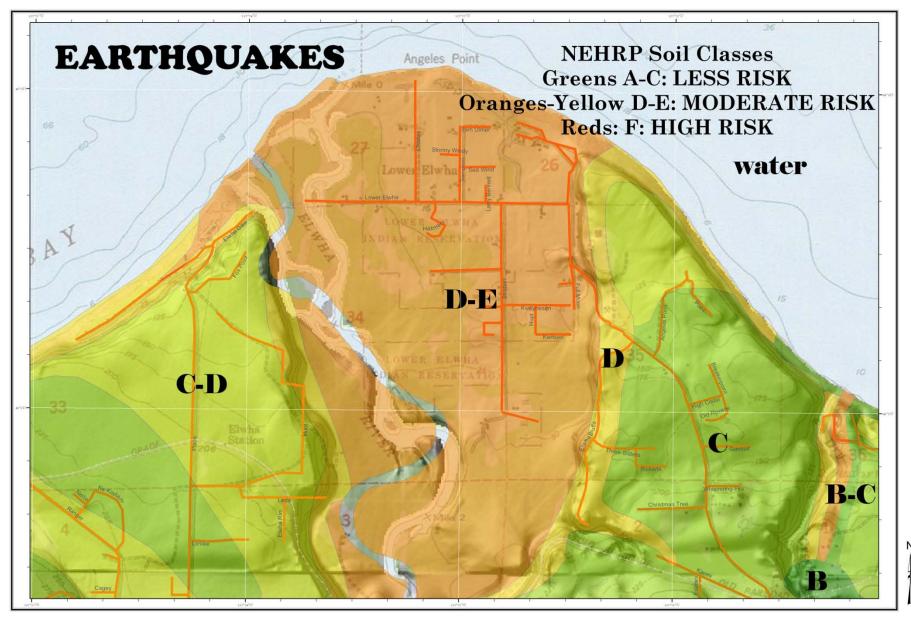


Tsunami Exposure:

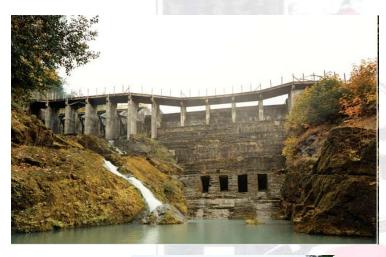
•148 Structures below 20 ft elevation; 60% are Residential•257 Structures below 50 ft elevation; 73% are Residential







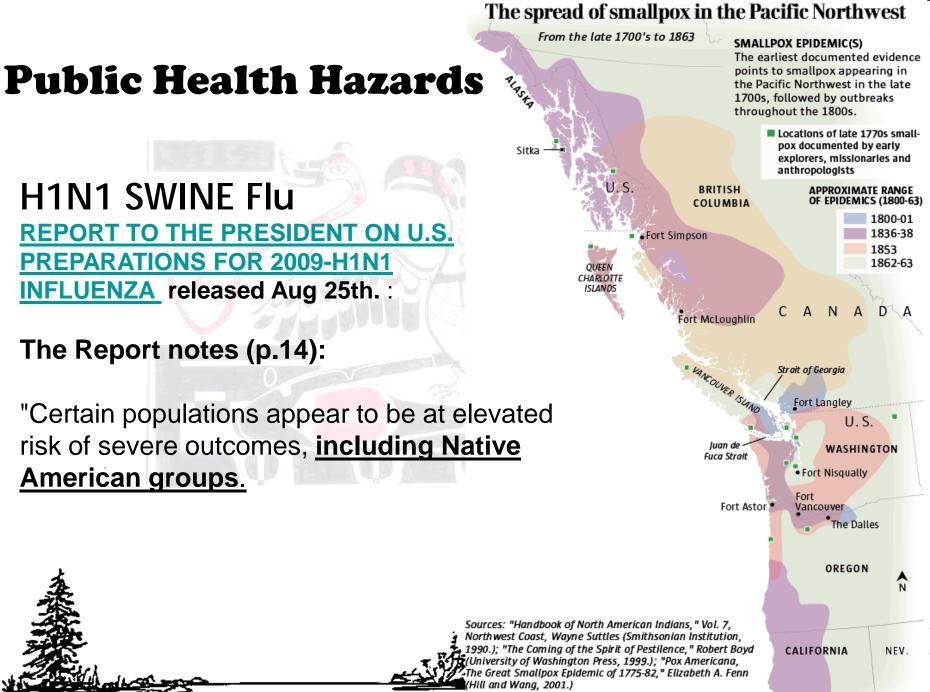
Dams: Elwha River and Glines Canyon Dams







The Elwha Dam and the Glines Canyon Dam are scheduled to be removed starting in 2011.

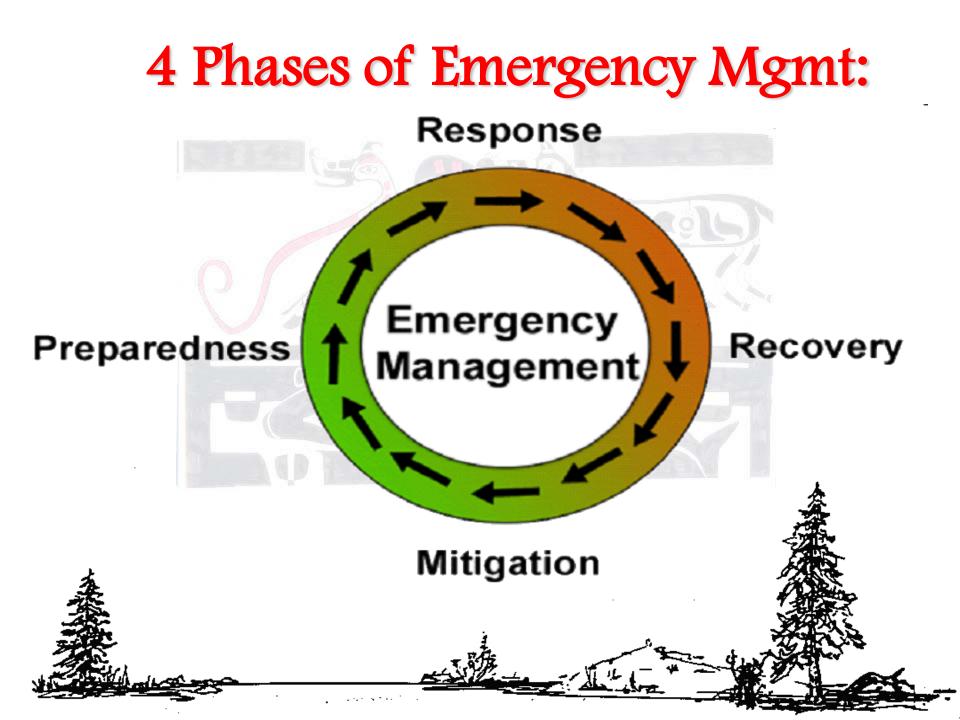


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How to reduce the effects of hazards?

- Emergency Management:
 - is the discipline of dealing with and avoiding risks.
 - It is a discipline that involves preparing for disaster before it occurs, disaster response (e.g. emergency evacuation, quarantine, mass decontamination, etc.), as well as supporting, and rebuilding society after natural or

human-made disasters have occurred.



MITIGATION

mit·i·gate

v.tr. To moderate (a quality or condition) in force or intensity; alleviate. See Synonyms at **relieve**. *v.intr.* To become milder.

[Middle English mitigaten, from Latin mitigare, mitigat- : mitis, soft + agere, to drive, do; see act.]

- Mitigation efforts attempt to prevent hazards from developing into disasters altogether, or to reduce the effects of disasters when they occur.
- The mitigation phase differs from the other phases because it focuses on long-term measures for reducing or eliminating risk.

2010 LEKT Tribal Hazard Mitigation Plan

- Tribe has received a FEMA grant to develop a Plan that will reduce the effects of hazards to the Tribe in the future
- Need Community Support/Participation to be successful

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Tribal Hazard Mitigation Plan Plan consists of:

- Identifying Hazards to the Tribal Community
- Develop Strategies & Actions to REDUCE or REMOVE the Risk from these Hazards

2010 LEKT Tribal Hazard Mitigation Plan EXAMPLE Strategies & Actions to Reduce Risk:

- Build outside of flood prone areas
- Build outside of high earthquake risk areas
- If you can't build outside these areas:
 - Elevate building from Flooding or make flood proof
 - Build Structure to withstand Earthquake Sharing and Sinking into soft soils

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Tribal Hazard Mitigation Plan

Proposed Mitigation Activities:

- Build new development outside hazard areas
- Construct redundant/alternate routes out of hazard areas
- For new development that must remain in hazard areas, build to highest seismic standards and consider vertical evacuation in site plans (taller structures)
- Conduct seismic inventory of critical facilities and infrastructure
- Maintain Office of Emergency Management to coordinate mitigation planning amongst tribal department as well as local/state and federal partners

Questions?

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Questions regarding Hazard Mitigation Plan:

PLEASE contact Glenn, Phil or

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