

Manzanita Council

Hazards Risk Analysis Preparation Status

March 5, 2025



EMERGENCY VOLUNTEER CORPS OF NEHALEM BAY



Disaster Duties & Responsibilities

FEMA Mandates 2009

The local authorities should ensure capacity building of their officers and manage disasters and carry out relief, rehabilitation and reconstruction activities in the effected areas

Local Government Role in Disaster Management

- Coordinate response with public and private organizations
- Share disaster scope with County EM
- Activate mutual aid
- Proclaim local state of emergency

Earthquake & Tsunami Impact For Tillamook County

DOGAMI 1-20

Data Included:

- Demographics
- Geology
- Seismology
- Three sizes of events M, L & XXL

Health Security Preparedness & Response

- Prepared by: Yumei Wang
- Prepared for Oregon Health Authority
- Purpose:
 - Evaluate potential health effects of CSZ quake and accompanying tsunami on Oregon coast

Major Takeaways

- Coastal hospitals are ill-prepared to deal with Cascadia
- Patient transport will be a major problem
- Tsunami will result in many more fatalities than quake
- Tsunami victims will drown
- Tsunami injuries will drain available medical resources
- Many tsunami injuries will result in later fatalities
- Open wounds and tsunami lung are major contributors

Major Takeaways cont.

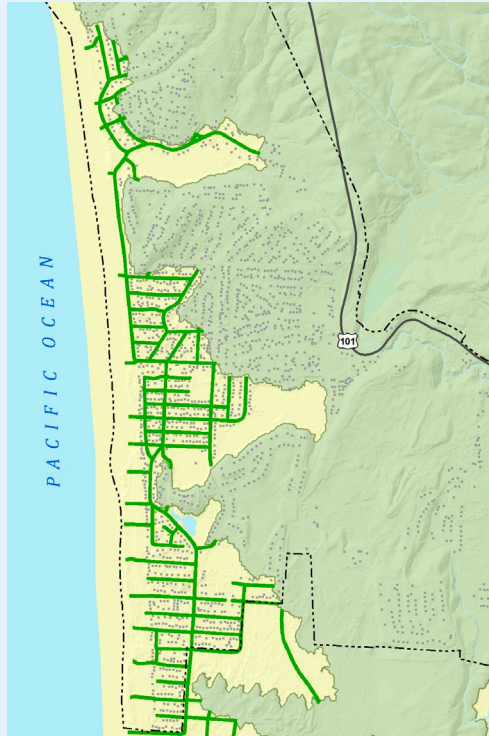
Days following tsunami will bring increased risks:

- Environmental hazards
- Water borne diseases
- Increased stress
- Infections
- Cardiac arrest
- Contaminated water
- Disrupted food supplies
- Declining mental health




Compiled Results Include

- Numbers of permanent and seasonal residents
- Building types, numbers
- Distance to safety
- Evacuation times
- Debris volumes
- Displaced population *
- Injuries and severity
- Fatalities

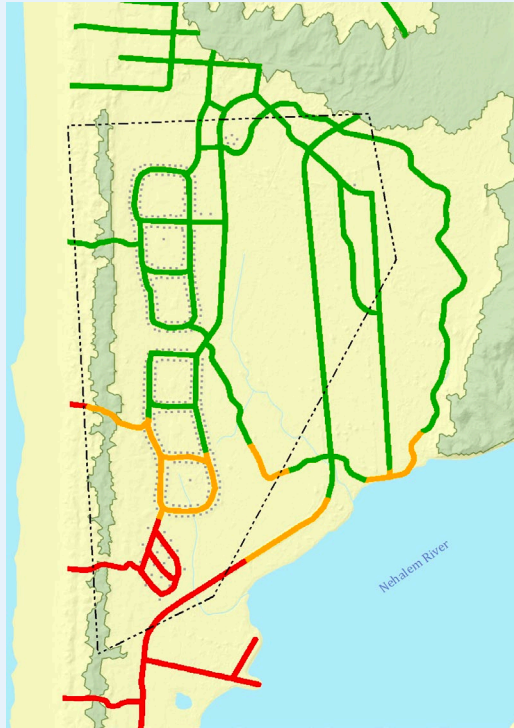
Tsunami Inundation Map for L Event Manzanita Area






Evacuation Route Classification

-  High likelihood of survival for all ages
-  High likelihood of fatality for people 65 and over
-  High likelihood of fatality for all ages

Tsunami Inundation Map for L Event Nehalem Bay State Park



Evacuation Route Classification

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Permanent & Temporary Population Displaced

Assumes 100% occupancy of second homes, vacation homes, rentals and campgrounds

	Displaced Population by Tsunami Scenario		
Community Zone	Medium	Large	XX-Large
Manzanita	1,532	3,531	4,590
Nehalem Bay SP	577	699	721
Nehalem	164	454	764
Wheeler	67	109	168

Likely Scenario Manzanita

Occupancy Rate November

- Full time Residents 90 % or 610
- Second Homes 20 % or 175
- STR's 33 % or 250
- State Park 33 % or 325

November CSZ Large Event

1360 occupancy x 75% in tsunami zone

Total number of displaced people = 960

- Experts estimate 4- 6 weeks before substantial outside help arrives
- The City of Manzanita is responsible for the health, safety, and care of these folks

Associated CSZ Mass Care Costs

30-day supply needs for 10 people

Tents, cots, blankets, ponchos, solar generator, rechargeable lights, hygiene kits, shovel, rake, gloves, stocking hat, tarps, latrines, privacy tent, garbage can and bags, hand washing station, water barrel, & food stuffs

Total estimated costs for these items \$10,300

You do the math for 960 people.....

Presentation Takeaways

- Continue financial support for emergency supply and equipment cache's
- Continue supporting EVCNB partnership
- Continue disaster preparedness communication with county and state
- Develop strategies for increased resilience capacity