

## The Threat

Geologists say much of western Oregon and Washington will experience a 9.0 Megathrust Earthquake. Maybe in 50 years. Maybe tomorrow.

If a full-margin rupture happens (as it has before), the Northwest will suffer the worst natural disaster in the history of North America.

We've got a situation. A big earthquake is coming and we're not prepared.

Table 5. Estimated injuries and deaths in Oregon resulting from the CSZ earthquake and tsunami

Area of Operation	Injuries			Fatalities		
	Earthquake	Tsunami	Total	Earthquake	Tsunami	Total
Coastal	5,000	1,500	5,500	300	4,500	4,800
I-5 corridor	9,000	0	9,000	400	0	400
Oregon total	14,000	1,500	15,500	700	4,500	5,200

Source: FEMA CSZ Response Plan (2013) and Wood - see Methodology section for more detail



## What to Do

- **Crawl under a sturdy table**
- **Hold on.** Shaking could last 3-5 minutes
- **Turn off utilities after the shake** (if you smell gas or water is leaking)
- **Check on Neighbors**
- **Listen to radio or TV**

## What NOT to Do

- **DO NOT run to other rooms** or stand in a doorway. Doorways are not much stronger in modern homes and you'll probably fall.
- **Do NOT go outside**, especially in a multi-story building. Most injuries are from falling debris.

## Basic Emergency Supplies



### Recommended Items to Include in a Basic Emergency Supply Kit:

- Water, one gallon of water per person per day for at least three days, for drinking and sanitation**
- Food, at least a three-day supply of non-perishable food**
- Battery-powered or hand crank radio and a NOAA Weather Radio with tone alert and extra batteries for both**
- Flashlight and extra batteries**
- First aid kit**
- Whistle to signal for help**
- Dust mask, to help filter contaminated air and plastic sheeting and duct tape to shelter-in-place**
- Moist towelettes, garbage bags and plastic ties for personal sanitation**
- Wrench or pliers to turn off utilities**
- Can opener for food (if kit contains canned food)**
- Local maps**

It's only common sense to get an emergency kit, gather supplies and make plans...just in case an earthquake or disaster strikes. People in California and Japan do it.

## Make a Go Kit

You might pack essential supplies in a backpack that you can grab and go. Pack some gloves, bandages, flashlight, water, documentation of family members, and your family plan. Consider a Go Kit for your car, one for your workplace, and one for each family member.

## Meet Me Plan

**Decide on safe, familiar places where your family can reunite.** This location should be accessible for everyone. If you have pets or service animals, think about animal-friendly locations. The meeting place could be a big tree or a neighbor's house.

**Outside of your neighborhood:** This is a place where your family will meet if a disaster happens when you're not at home and you can't get back to your home. This could be a library, community center, house of worship, or family friend's home.

**Out of town:** This meeting place could be the home of a relative or family friend, if you can't get home.

## Tsunami & Liquefaction

Shaking from a magnitude 9.0 Cascadia Subduction Zone Earthquake will damage infrastructure, especially older unreinforced masonry buildings. The resulting tsunami, arriving perhaps 10-20 minutes after the shaking stops, will have a big impact on the coast.

The Port of Portland and Hayden Island are NOT in the tsunami inundation zone. Any tsunami would be largely dissipated within about 50 miles of the Columbia's mouth, way before Longview, Washington.

However, Hayden Island residents are likely to experience severe liquefaction, moorage instabilities, and high currents which can damage ships and piers within harbors.

## Communications

Cellular, land lines and cable may be out. One way to communicate is via Walkie Talkies or Ham Radio. Ham radio is used to relay messages directly to the Emergency Coordination Center in SE Portland. One ham radio is available at Fire Station #17 on Hayden Island.

**The main walkie-talkie (GMRS) emergency channel assigned to Hayden Island is Channel 2 (462.5875), while Kenton and Portsmouth use Channel 3 (462.6125).**

**A Basic Earthquake Emergency Communication Node (BEECN)** is the place to go on Hayden Island to report severe damage or injury. It would likely be located on the Sleep Country parking lot, on the west side of the Jantzen Beach shopping center. Typically these tents are set up 2-3 days after a quake.

## Hayden Island NETS

Hayden Island's Neighborhood Emergency Teams (NETs) are community volunteers. Their mission is to respond and report the current situation for professional responders and provide help as best they can.

For more information see:  
[www.hayden-island.net](http://www.hayden-island.net)



