

WITHOUT WARNING! TSUNAMI

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Earthquakes occur when the movement of Earth's tectonic plates causes rock deep underground to suddenly break along a fault. This sudden release of tremendous energy creates seismic waves that shake the ground.

Large earthquakes occur with rock movement of about a meter or two. Small earthquakes happen with movements of just millimeters.

The Northwest's last "megaquake"—an earthquake of greater than 9.0 magnitude—is believed to have happened around 1700. Some seismologists predict the **Cascadia subduction zone** is due for another big earthquake sometime this century!



A tsunami is a series of ocean waves caused by a sudden, large displacement of water. Most often caused by earthguakes, tsunamis can also be triggered by landslides, volcanic eruptions, and comet or meteorite impacts in the ocean.

Tsunamis can move like a fast-rising flood tide, a storm surge, or an advancing wall of water. They strike with devastating force and travel faster than you can run!

The first wave will not be the largest or the most dangerous. Additional surges may arrive ten hours or more after the initial wave.

You can find this and more geological information at the following websites: Oregon.gov/OEM Oregongeology.org OregonTsunami.org FEMA.gov Crew.org Tsunami.gov





PREPAREDNESS INFORMATION

BEFORE THE EARTHQUAKE

- Make a plan, and make sure everyone knows it.
- Practice it together.
- □ Visit ready.gov/make-a-plan.
- Buy or assemble an emergency kit.

DURING THE EARTHQUAKE

Drop, cover your head, and hold on.

AFTER THE EARTHQUAKE

- If you are near water, move uphill and inland on foot as fast as possible.
- Always follow your plan.
- Communicate with others around you.
- Have an out-of-state emergency contact saved. You may not be able to call across town, but out-of-state calls should go through. Texts often go through when calls don't.

WHAT KIND OF ITEMS SHOULD BE INCLUDED IN THE PREPAREDNESS KIT?

Water and food are important things to have if an emergency happens. Each family's or individual's kit should be customized to meet specific needs, such as prescribed medications and infant formula. It should also include important family documents.

An Emergency Go-Kit Passport is a printable, detailed emergency plan that each family member should carry. It can be found here:

http://www.oregon.gov/OMD/OEM/plans_ train/earthquake/go-kit_passport.pdf

RECOMMENDED SUPPLIES TO INCLUDE IN A BASIC EMERGENCY KIT

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- ❑ Water (one gallon of water per person, per day, for drinking and sanitation)
- Food (at least a two-week supply of nonperishable food)
- □ Can opener (if kit contains canned food)
- □ Battery-powered radio and NOAA Weather Radio with tone alert, and extra batteries for both
- Flashlight and extra batteries
- Generation First-aid kit
- □ Whistle to signal for help
- □ Infant formula and diapers (if you have an infant)
- Moist towelettes, garbage bags, and plastic ties for personal sanitation
- Dust mask or cotton T-shirt, to help filter the air
- □ Plastic sheeting and duct tape to create shelter
- □ Wrench or pliers to turn off utilities

