

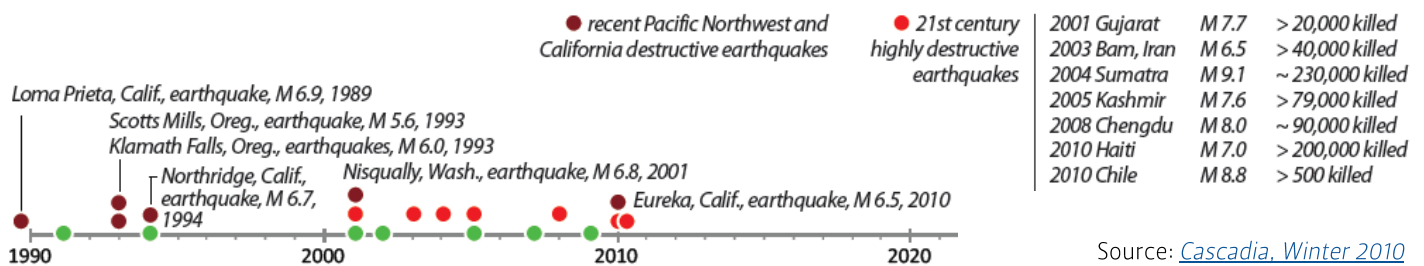
EARTHQUAKES

EMERGENCY PREPAREDNESS MONTHLY TOPIC

OREGON HAS FOUR KINDS OF EARTHQUAKES

Source	Example
Cascadia Subduction Zone	The 1700 earthquake that caused shaking and a tsunami that inundated the Oregon coast and reached as far as Japan
Intraplate	The 2001 Nisqually, Washington, earthquake that affected Washington and northwestern Oregon
Volcanic	The 1980 Mount St. Helens eruption-related earthquakes
Crustal	The 1993 Scotts Mills and Klamath Falls earthquakes. Crustal earthquakes also occur in southeastern Oregon where the crust is pulling apart

Significant earthquakes have occurred within the last 25 years:



Source: [Cascadia, Winter 2010](#)

Earthquakes occur daily, but are usually too deep or too small to be felt.

Experts predict that the Cascadia Subduction Zone earthquake will occur within our lifetime. The projected magnitude is 9.0, with shaking lasting for 5-7 minutes. The Oregon coast will also experience a tsunami (30-40 foot wave) that follows the earthquake.

RESPONSE TO AN EARTHQUAKE



DROP to the ground; take **COVER** by getting under a sturdy table or other piece of furniture; and **HOLD ON** until the shaking stops.



If there isn't a table or desk near you, cover your face and head with your arms and crouch in an inside corner of the building.

If on the coast, when the shaking stops, immediately evacuate to higher ground. Follow the Evacuation Route signs.

HOW TO PREPARE:

Check for hazards in the home and work area

- Fasten shelves to the walls
- Place heavy objects on lower shelves
- Store breakable items (glass bottles, jars) in closed cabinet doors with latches

Identify safe places indoors and outdoors

- Keep a clear area under your desk or work table
- Away from glass, which can shatter

Educate yourself, family members, and co-workers

- Teach your children how to respond
- Know how to evacuate safely

Have disaster supplies on hand – at home, in the car, at work

- Expect 72 hours before business and community aid can arrive
- Have food, water, clothing, sturdy shoes for up to 7 days

Develop an emergency communication plan

- How will you communicate if separated from family
- Have an out-of-state contact for all to call and check in



OSU EMERGENCY PREPAREDNESS AND WARNING INFORMATION

[OSU Emergency Preparedness Website](#)

[OSU Alert – Sign Up](#)



OSU Emergency Plan mobile device app—*In Case of Crisis*

- [Apple iTunes Store \(iOS\)](#)
- [Google Play \(Android\)](#)
- Kindle Fire
- For Window Devices, [Download the PDF version](#) from the emergency preparedness website

MORE INFORMATION

[Latest Earthquakes](#) - U.S. Geological Survey

[Oregon Department of Geology and Mineral Industries \(DOGAMI\)](#)

[Cascadia](#) - Winter 2010 edition

[National Weather Service](#) - earthquakes and tsunamis

[USGS Earthquake Hazards Program](#) - U.S. Geological Survey

[Ready.gov](#)— earthquakes

[RedCross.org](#)—make a disaster plan

[NFPA.org](#)—emergency evacuation for people with disabilities

If electronic copy (with clickable links) is needed, e-mail your request to Michael.Bamberger@oregonstate.edu