

<http://www.king5.com/news/local/state-prepares-for-possible-earthquake-disaster/233939108>

Jenna Hanchard, KING 3:38 AM. PDT June 06, 2016

OLYMPIA, Wash. - State Geologist Dave Norman with the Department of Natural Resources came into work on a Sunday to explain a key tool that could help everyone prepared for the Cascadia subduction earthquake and subsequent tsunami.

"It gives you that first glimpse as to what may be the area that is the hardest hit and what kind of things you need to deploy to help."

Norman along with the State Department of Natural Resources and other agencies helped to create these interactive maps.

"It will show damage to hospitals schools fire stations oil facilities railways"

This week, state and national emergency responders will execute the first run through of what it will be like to respond to this disaster. The response training is called Cascadia Rising.

"This is the largest exercise for this purpose that the state has ever done."

But people at home also have [access to these maps](#).

"The purpose of these tools is for anyone whether its agencies or individuals to look at areas to help them plan for their lives and purposes."

It will show liquification zones--where damage could be much more severe for homes and buildings and which bridges could be wiped out.

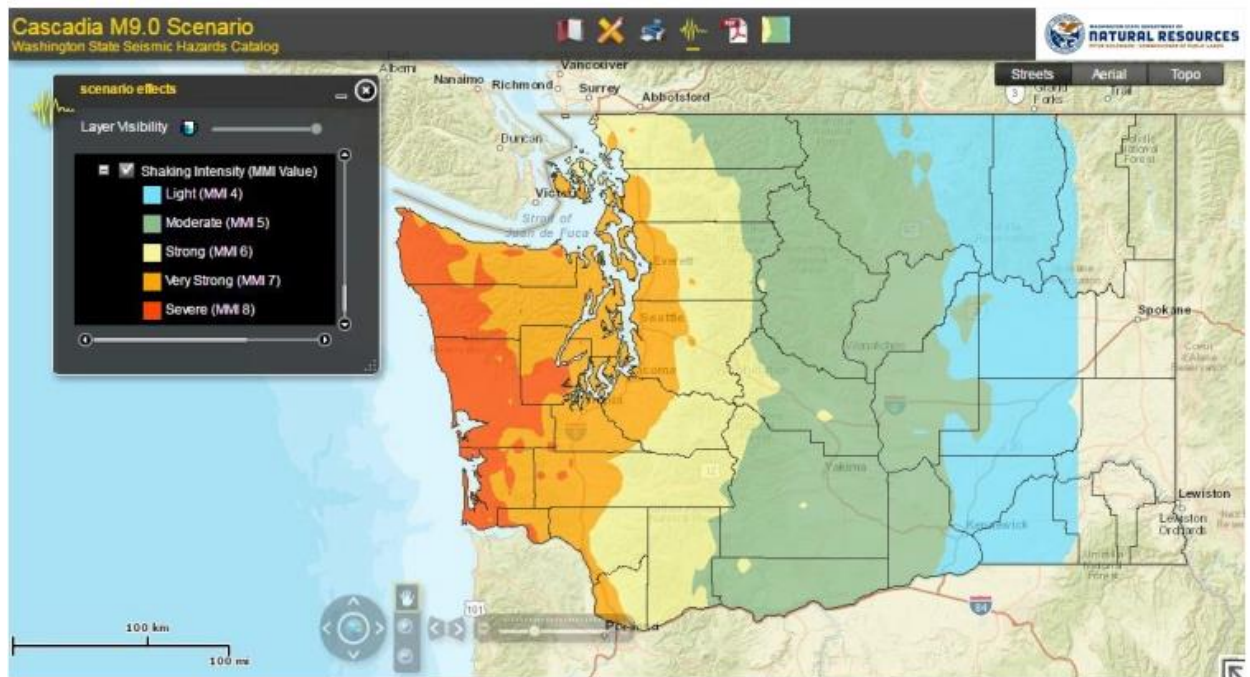
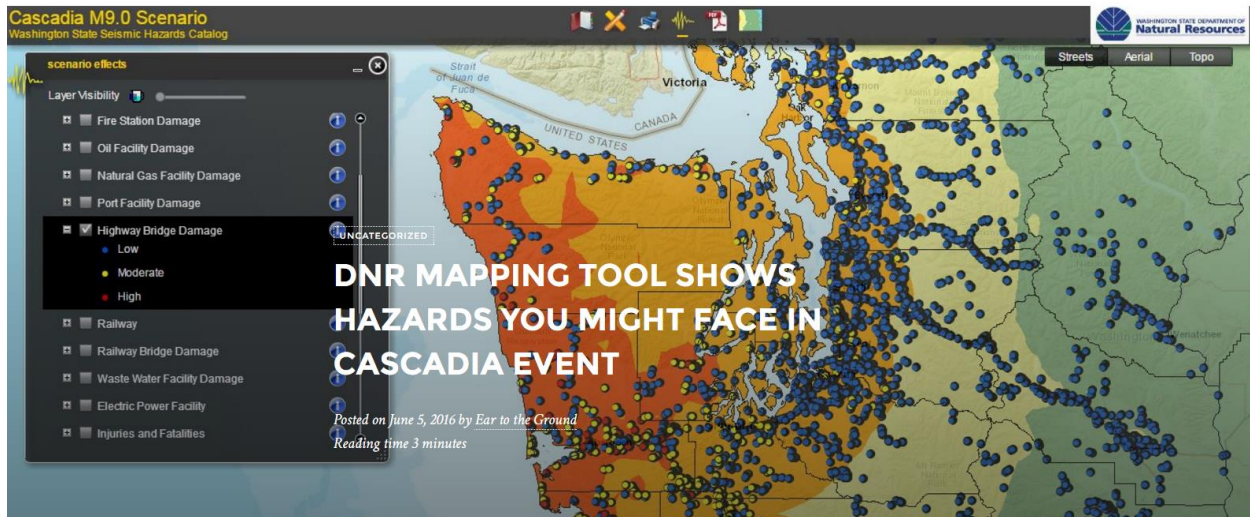
"The Puyallup river area the Nisqually river those sorts of crossing are more susceptible to damage."

But Norman reminds us that these maps are drawn in stone and will be updated once new information is received.

"The more work that is done the picture changes probably dramatically as you investigate site specifically."

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<https://washingtondnr.wordpress.com/2016/06/05/dnr-mapping-tool-shows-hazards-you-might-face-in-cascadia-event/>

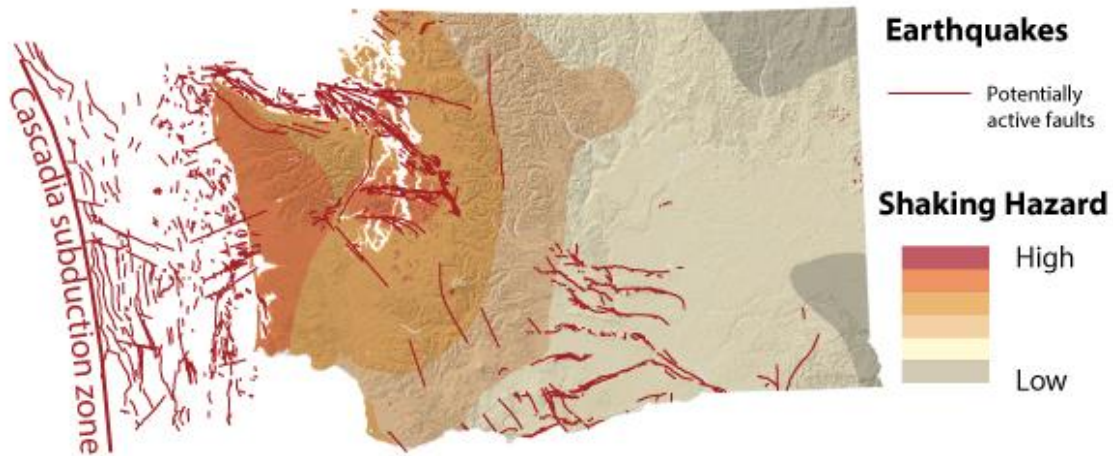


Derived from mathematical models and geologists' data DNR's seismic scenario catalog shows how earthquakes are likely to impact homes, bridges, schools and electrical facilities.

Thousands of emergency responders, community leaders and soldiers will be practicing how to respond to the aftermath of a Cascadia subduction zone megaquake and tsunami [this week](#).

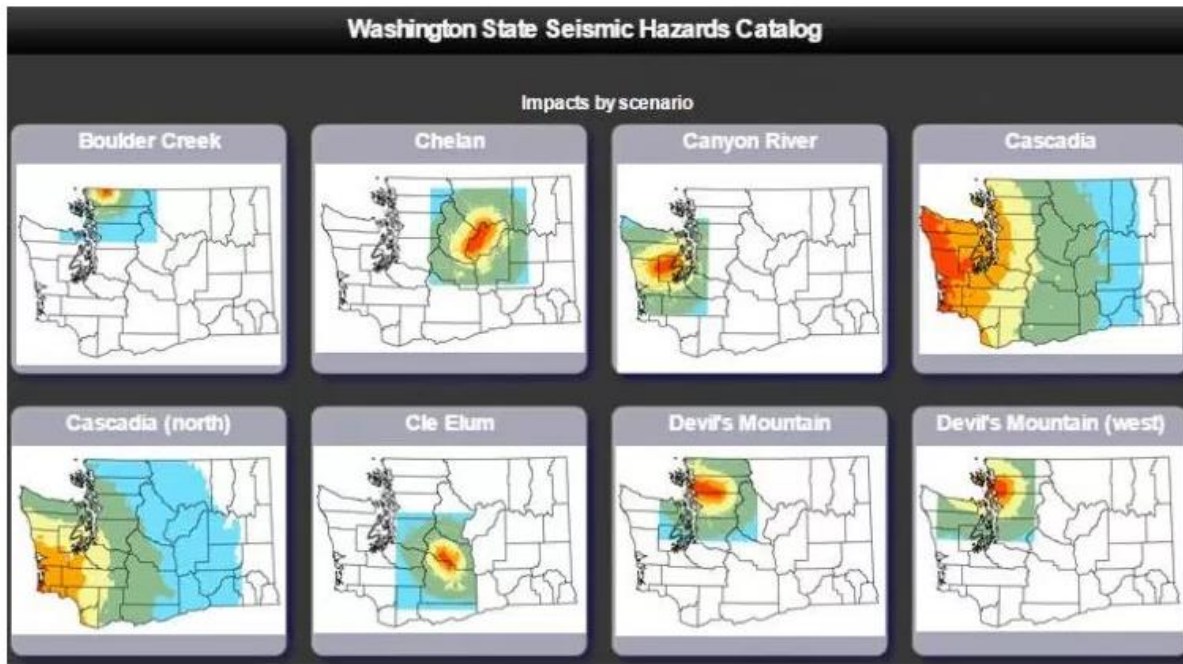
Called "Cascadia Rising," the exercise will provide those responders scenarios of damage that could stem from an event on the 600-mile-long subduction fault that runs along the coasts of

Washington, Oregon, California and British Columbia.



Based on the [studies](#) some of the Pacific Northwest's top minds have assembled, we know the fault produces magnitude 9.0 quakes every 200 to 700 years. The last was on Jan. 26, 1700. We know this thanks to tribal lore, Japanese records and a [cedar forest petrified](#) by the tsunami.

Models help locals be prepared



Home to the Washington Geological Survey, DNR has spent decades studying the state's major faults and investigating the damage major seismic activity could inflict on our communities. Those studies are compiled in our interactive [Seismic Scenario Catalog](#).

The catalog is a compilation of results from 20 scenario models run using FEMA's [Hazards United States \(HAZUS\)](#) software program and is based on reasonable estimates of the most serious earthquake hazards to Washington State.

Each scenario includes a shaking intensity map to convey how widely felt the particular seismic event is projected to be, and many additional data layers, detailing the demographics of affected regions and impacts to infrastructure (for example, damage to hospitals and schools).

The Seismic Scenario Catalog represents a multi-agency collaboration, including DNR, EMD, Western Washington University (WWU), Huxley College of the Environment, Federal Emergency Management Agency (FEMA), US Geological Survey (USGS) and URS Corporation. We are working to keep the catalog updated and improved over time.

Tsunami, Inundation dangers also mapped

In addition to earthquake hazards, DNR has also mapped geologic hazards that could come alongside a Cascadia quake.

Our geologists have produced studies of how a quake might produce [landslides and soil liquefaction in coastal communities](#) and what areas could be inundated by [tsunamis](#).

Check out our [Geologic Information Portal](#) for all this information and more. You can also read our many [published reports](#) for further detail on how these maps and models were assembled.

Alongside all of this, DNR's Division of Geology and Earth Resources has compiled information about [emergency preparedness](#) on a web page.

All this is geared toward making sure you, your families and your neighbors are as informed as possible about the geologic hazards that have formed Washington's stunning and special landscape. Look it over and be prepared, not scared.

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Inundation maps show areas that might be flooded by tsunamis.

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