Earthquake impact data for 2012 Oregon Resilience Plan released
Areas of state at risk for strong shaking, earth movement, and tsunami inundation from Cascadia Subduction Zone earthquake mapped

Portland, Oregon: During the 2011 Oregon Legislative Assembly the House of Representatives passed House Resolution 3, which acknowledged the threat posed to Oregon by great earthquakes from the Cascadia Subduction Zone. The Resolution also charged the Oregon State Seismic Safety Policy Advisory Commission (OSSPAC) to prepare a resilience plan for Oregon that would estimate current vulnerabilities to earthquake-related hazards. The Plan also recommends policies to address those vulnerabilities and increase the state’s resilience to a great earthquake. The Plan and recommendations were delivered to the Oregon Legislative Assembly on February 28, 2013.

To create the Oregon Resilience Plan, OSSPAC developed a strategy that involved the use of workgroups to analyze the vulnerability of their respective sectors to the chosen earthquake scenario, a magnitude 9.0 (M 9.0) great subduction earthquake off the coast of Oregon, accompanied by a large tsunami. The Cascadia Earthquake Scenario workgroup was charged with developing a description of the likely ground motion (strength of shaking) and ground deformation (earth movements) to be expected from the scenario event, as well as maps of the likely tsunami inundation for coastal cities.

"Map of Earthquake and Tsunami Damage Potential for a Simulated Magnitude 9 Cascadia Earthquake (Plate 7 of O-13-06). Red indicates very heavy damage potential; green indicates very light damage potential."
To preview this publication, visit:

http://www.oregongeology.org/pubs/ofr/p-O-13-06.htm

DOGAMI Open-File Report O-13-06 can be purchased on DVD for $30 each from the Nature of the Northwest Information Center (NNW), 800 NE Oregon Street, Suite 965, Portland, Oregon, 97232. You may also call NNW at (971) 673-2331 or order online at http://www.NatureNW.org. There is a $4.95 shipping and handling charge for all mailed items.

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The Oregon Department of Geology and Mineral Industries is an independent agency of the State and has a broad responsibility in developing an understanding of the state’s geologic resources and natural hazards. The Department then makes this information available to communities and individuals to help inform and reduce the risks from natural hazards, such as earthquakes, tsunamis, landslides, floods and volcanic eruptions. The Department assists in the formulation of state policy where an understanding of geologic materials, geologic resources, processes, and hazards is key to decision-making. The Department is also the lead state regulatory agency for mining, oil, gas and geothermal exploration, production and reclamation.

Learn more about Oregon’s geology online: http://www.OregonGeology.org

DOGAMI’s mission is to provide earth science information and regulation to make Oregon safe and prosperous.

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