

OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

Vicki S. McConnell, State Geologist

NEWS RELEASE: July 14, 2008

800 NE Oregon Street
Suite 965, Portland, OR 97232
www.oregongeology.org
(971) 673-1555

Media Contact: James Roddey
Earth Sciences Information Officer
james.roddey@dogami.state.or.us
(971) 673-1543 (direct line)
(503) 807-8343 (cell)

Earthquake and Landslide Hazard Maps Released for Six Counties in the Mid-Willamette Valley

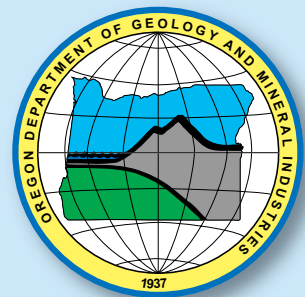
Portland, Oregon: The Oregon Department of Geology and Mineral Industries (DOGAMI) has released a new publication titled **Geologic Hazards, Earthquake and Landslide Hazard Maps, and Future Damage Estimates for Six Counties in the Mid/Southern Willamette Valley Including Yamhill, Marion, Polk, Benton, Linn, and Lane Counties, and the City of Albany, Oregon (IMS-24)**, by William J. Burns, R. Jon Hofmeister and Yumei Wang, Oregon Department of Geology and Mineral Industries.

This 5 year study was initiated by the U.S. Department of Homeland Security's Federal Emergency Management Agency (FEMA) Pre-Disaster Mitigation grant program, which provides funds to states, territories, Indian tribes, communities, colleges, and universities for pre-disaster mitigation planning efforts to better address natural hazards. The Oregon Partnership for Disaster Resilience and Oregon Emergency Management assisted DOGAMI in developing the plans.



The Report contains maps and digital geographic information system (GIS) layers for the six counties depicting relative earthquake and landslide hazards and identified landslide areas. Computer modeling for damage and loss estimates using two earthquake scenarios were also produced and include:

- A magnitude ~6.5 crustal fault earthquake and;**
- A magnitude 9.0 Cascadia Subduction Zone earthquake**



OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

The three main objectives of this study were:

- 1) To assist communities in the development of county natural hazard mitigation plans.
- 2) To identify and map potential earthquake and landslide hazards in the region and to improve the ability of the counties and local communities to perform earthquake damage and loss estimations, which is essential for requesting federal aid during natural disaster declarations.
- 3) To make recommendations on actions to take to mitigate, prepare for and recover from a destructive natural disaster like an earthquake or landslide.

Studies like IMS-24 are a necessary first step in the process of incorporating natural hazards information into land-use planning, zoning, and regulations including input to comprehensive planning and the development of hazard ordinances. Other uses include aiding in emergency management activities such as the development and refinement of emergency response plans, public outreach activities, in the selection of appropriate safe-haven sites, with hazard response drills, and estimating resource impacts for various earthquake hazard scenarios.

When used in conjunction with the Statewide Seismic Needs Assessment, this report can help communities focus earthquake rehabilitation programs on the most vulnerable buildings, lifelines and other regionally distributed infrastructure. Learn more about the Statewide Seismic Needs Assessment at:

<http://www.oregongeology.com/sub/news%26events/archives/press-release-2007-07-24.pdf>

Identified earthquake-induced hazards in the report include ground-shaking amplification, liquefaction, earthquake-induced landslides, and tsunamis. To evaluate non-earthquake related landslide hazards, DOGAMI used identified landslide areas, potential "rapidly moving landslide" (debris flow) hazards maps, and an inventory of slope failures in Oregon from three storm events (1996-1997).

IMS-24 contains FEMA HAZUS-MH estimates for each county that list building and infrastructure damage and casualties caused by 2 different types of potential earthquakes. HAZUS-MH (Hazards U.S. Multi-Hazard) is a federally developed computer application used to model various earthquake scenarios and estimate associated damage and loss.

IMS-24 is available on 3 CD-ROMs for \$25. Printed copies of the map are \$20. They can be purchased from the Nature of the Northwest Information Center (NNW), 800 NE Oregon Street, Suite 177, Portland, Oregon, 97232. You may also call NNW at (503) 872-2750 or order online at <http://www.naturenw.org>. There is a \$4 shipping and handling charge for all mailed items. For additional

800 NE Oregon Street
Suite 965, Portland, OR 97232
www.oregongeology.org
(971) 673-1555

Media Contact: James Roddey
Earth Sciences Information Officer
james.roddey@dogami.state.or.us
(971) 673-1543 (direct line)
(503) 807-8343 (cell)

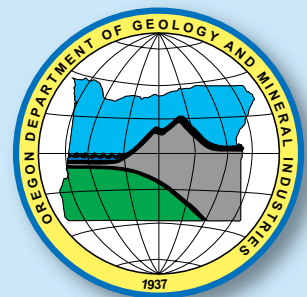
Mineral Land Regulation
and Reclamation Program
229 Broadalbin Street, SW
Albany, OR 97321
(541) 967-2039
Gary W. Lynch, Assistant Director

Baker City Field Office
1510 Campbell Street
Baker City, OR 97814
(541) 523-3133
Mark L. Ferns, Regional Geologist

Coastal Field Office
313 SW 2nd Street, Suite D
Newport, OR 97365
(541) 574-6642
Jonathan C. Allan, Coastal
Team Leader

Grants Pass Field Office
5375 Monument Drive
Grants Pass, OR 97526
(541) 476-2496
Thomas J. Wiley, Regional Geologist

The Nature of the Northwest
Information Center
800 NE Oregon Street, Suite 177
Portland, OR 97232-2162
(503) 872-2750
Donald J. Haines, Manager
Internet: <http://www.NatureNW.org>



OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

information, please contact the Nature of the Northwest Information Center. Additionally, these items as well as all department maps and publications can be purchased at DOGAMI Field Offices including 5375 Monument Drive, Grants Pass, (541) 476-2496 and 1510 Campbell Street, Baker City, (541) 523-3133.

For more information on accessing the text of the report, please contact:

James Roddey
Earth Sciences Information Officer
Oregon Dept. of Geology and Mineral Industries
800 NE Oregon Street, Suite 965, Portland, OR 97232
(971) 673-1543 (direct line) / (503) 807-8343 (cell)
james.roddey@state.or.us

Learn more about Oregon's geology by going online at:
<http://www.OregonGeology.org>

**800 NE Oregon Street
Suite 965, Portland, OR 97232
www.oregongeology.org
(971) 673-1555**

Media Contact: James Roddey
Earth Sciences Information Officer
james.roddey@dogami.state.or.us
(971) 673-1543 (direct line)
(503) 807-8343 (cell)

Mineral Land Regulation
and Reclamation Program
229 Broadalbin Street, SW
Albany, OR 97321
(541) 967-2039
Gary W. Lynch, Assistant Director

Baker City Field Office
1510 Campbell Street
Baker City, OR 97814
(541) 523-3133
Mark L. Ferns, Regional Geologist

Coastal Field Office
313SW 2nd Street, Suite D
Newport, OR 97365
(541) 574-6642
Jonathan C. Allan, Coastal
Team Leader

Grants Pass Field Office
5375 Monument Drive
Grants Pass, OR 97526
(541) 476-2496
Thomas J. Wiley, Regional Geologist

The Nature of the Northwest
Information Center
Suite 177, 800 NE Oregon Street,
Portland, OR 97232-2162
(503) 872-2750
Donald J. Haines, Manager
Internet: <http://www.NatureNW.org>

