

OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

Vicki S. McConnell, State Geologist



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New landslide inventory maps for Beaverton and Linnton

Portland, Oregon: The Oregon Department of Geology and Mineral Industries (DOGAMI) has released two publications showing historic and pre-historic landslides in the Beaverton and Linnton quadrangles:

DOGAMI Interpretive Map 34, Landslide inventory maps of the Beaverton quadrangle, Washington County, Oregon, by William J. Burns, Ian P. Madin, and Katherine A. Mickelson

DOGAMI Interpretive Map 35, Landslide inventory maps of the Linnton quadrangle, Multnomah and Washington Counties, Oregon, by William J. Burns, Ian P. Madin, Katherine A. Mickelson, and Marina C. Drazba

These new maps use a laser-based terrain elevation technology called lidar (light detection and ranging). DOGAMI geologists are using the technology to create a new generation of landslide inventory maps that are more accurate and comprehensive than any in the past.

In 2005, DOGAMI began a collaborative landslide research program with the U.S. Geological Survey (USGS) Landslide Hazards Program to comprehensively identify and better understand landslides in Oregon. "The new lidar topographic data helped us to find hundreds more landslides than were previously known in the Beaverton and Linnton quadrangles." Said Bill Burns, Engineering Geologist with DOGAMI. "The number and size of mapped landslides increase as you go north in this area, especially in the Linnton quadrangle. There are 165 identified landslides in the Beaverton quadrangle, and 588 identified landslides in the Linnton quadrangle."

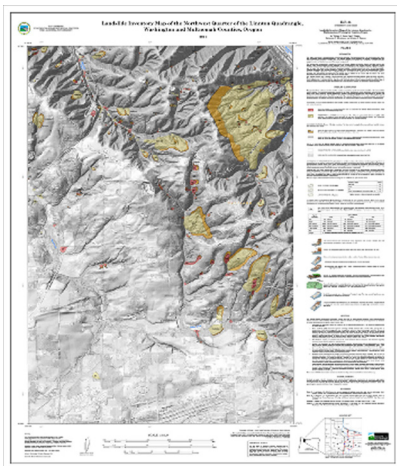


Image showing landslides in the northwest quarter of the Linnton 7.5 minute U.S. Geologic Survey topographic quadrangle.

To preview a larger version of this plate and the other plates in these publications, visit:

<http://www.oregongeology.org/pubs/ims/p-ims-034.htm>

<http://www.oregongeology.org/pubs/ims/p-ims-035.htm>

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

**Media contact:
Carol DuVernois**

carol.duvernois@state.or.us

800 NE Oregon St., #28,
Ste. 965

Portland, OR 97232

Phone: (971) 673-1555

Fax: (971) 673-1562

www.OregonGeology.org

Mineral Land Regulation and Reclamation Program

229 Broadalbin St. SW

Albany, OR 97321

Phone: (541) 967-2039

Fax: (541) 967-2075

info@mlrr.oregongeology.com

Gary W. Lynch,

Assistant Director

Coastal Field Office

313 SW 2nd, Ste. D

Newport, OR 97365

Phone: (541) 574-6642

Fax: (541) 265-5241

Jonathan C. Allan,

Coastal Team Leader

Eastern Oregon Field Office

Baker County Courthouse

1995 3rd St., Ste. 130

Baker City, OR 978149

Phone: (541) 523-3133

Fax: (541) 523-5992

Jason D. McClaughry,

Field Geologist

Nature of the Northwest Information Center

800 NE Oregon St., Ste. 965

Portland, Oregon 97232

(971) 673-2331

Email: info@naturenw.org

Web: www.NatureNW.org

Donald J. Haines, Manager

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These maps are intended to provide users with geologic information regarding landslides within the mapped area. These maps contain useful information to guide site-specific investigations for future development, to assist in regional planning and development, to mitigate existing landslides and slopes, and to prepare for emergency situations, such as storm events and earthquakes. The maps were created through a collaborative process between DOGAMI, USGS, and Washington County.

The maps are not appropriate for site-specific evaluations; however, the data contained in the CD-ROM are valuable for regional screening for landslides and selection of appropriate areas on which to focus further site-specific studies. The data are particularly suitable for incorporation and consideration into regional Geographic Information System (GIS) databases for a multitude of purposes, including city and county hillside development ordinances, issuance of building permit conditions, public works planning and operations, and environmental issues.

DOGAMI IMS-34 and IMS-35 can be purchased on CD-ROM for \$15 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>. Printed copies of the full color 44 x 34 inch maps are \$25 each. There is a \$4 shipping and handling charge for all mailed items.

The Oregon Department of Geology and Mineral Industries is an independent agency of the State and has a broad responsibility in developing a geologic understanding of natural hazards. We then make this information available to communities and individuals to help reduce the risks from earthquakes, tsunamis, landslides, floods and volcanic eruptions. We assist 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>



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