The mission of the Oregon Department of Geology and Mineral Industries is to provide earth science information and regulation to make Oregon safe and prosperous.

NEWS RELEASE: November 5, 2010

Digital geologic map of the southern Willamette Valley released


DOGAMI began a three-year project to prepare a detailed and updated digital geologic map of the southern Willamette Valley in 2007. The project was a high priority of the Oregon Geologic Map Advisory Committee and was supported in part by the U.S. Geological Survey (USGS) through its STATEMAP cooperative geologic mapping program.

This geologic map refines our understanding of geologic conditions in the southern Willamette Valley that control ground water, hydrocarbon and aggregate resources, and landslide and seismic hazards.

The core product of this study is a geodatabase that contains detailed spatial information about geologic polygons and structures, and basic data about each geologic unit such as age, lithology, mineralogy, structure and texture. The geodatabase is in a format consistent with the Oregon Geologic Data Compilation version 5 (Ma and others, 2009). The geodatabase is supported by a report describing the geology in detail, and with digital appendices of geochemical, geochronological, paleontological, structural and water well data.

This publication also includes a thematic map at a scale of 1:63,360 to show the distribution of key lithologies in the study area. A printed copy of the map (6 foot x 5 foot, full color) is available for $50. See next page for order information.

The southern Willamette Valley of northwest Oregon is a broad alluvial basin flanked by the Coast Range and Western Cascades. The basin lies within the seismically active Puget-Willamette Lowland and encompasses many of Oregon's agricultural, industrial, and population centers. The project area for this study encompasses 1,792 square miles of the southern Willamette Valley and extends upstream from the mouth of Luckiamute River on the north to the town of Creswell on the south and from Mary's Peak on the west to Sweet Home on the east.
Open-File Report O-10-03, Digital Geologic Map of the Southern Willamette Valley, Benton, Lane, Linn, Marion, and Polk Counties, Oregon, can be purchased on CD-ROM 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. Printed copies of the full color 6 foot x 5 foot map are $50 each. There is a $4 shipping and handling charge for all mailed items.

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

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