

OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
Dr. Vicki S. McConnell, State Geologist

800 NE Oregon Street #28, Suite 965, Portland, OR 97232
(971) 673-1543 WEB: <http://www.oregongeology.com>

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Contact: James Roddey (971) 673-1543 or (503) 807-8343

5 preliminary geologic maps released

Portland, Oregon: The Oregon Department of Geology and Mineral Industries (DOGAMI) is releasing five preliminary geologic map reports today. The reports are:

Open-File Report O-06-21, Preliminary Geologic Map of the Huston Lake 7.5' Quadrangle, Crook County, Oregon, by Mark L. Ferns and Jason D. McClaughry, Oregon Department of Geology and Mineral Industries.

The Huston Lake 7.5' quadrangle resides on the eastern margin of the Deschutes Basin near the intersection of the High Cascades, High Lava Plains, and Blue Mountains geomorphic provinces. Located downstream of the city of Prineville at the junction of the Crooked River and McKay Creek, the quadrangle encompasses a historic ranching community that is transforming to a rural residential population. Topographic relief in the juniper- and sage-covered high desert terrain ranges from 3605 ft (1099 m) at Meyers Butte to 2802 ft (854 m) in the Prineville Valley, downstream of the city of Prineville. This map depicts a preliminary stratigraphic assessment for the Prineville area and provides a framework for further geologic and geohydrologic analysis of the Lower Crooked River Basin.

Open-File Report O-06-22, Preliminary Geologic Map of the Prineville 7.5' Quadrangle, Crook County, Oregon, by Jason D. McClaughry and Mark L. Ferns, Oregon Department of Geology and Mineral Industries.

The Prineville 7.5' quadrangle is situated at the junction of the Crooked River and Ochoco Creek, near the intersection of the High Cascades, High Lava Plains, and Blue Mountains geomorphic provinces. Topographic relief in the juniper- and sage-covered high desert terrain ranges from 4080 ft (1244 m) in the low-lying hills in the northeast corner of the quadrangle to the floor of Prineville Valley at 2840 ft (866 m) downstream of the city of Prineville. The quadrangle encompasses a historic ranching and lumber-milling community that is rapidly transforming to a suburban residential population. This geologic map depicts a preliminary stratigraphic assessment for the Prineville urban area and provides a framework for further geologic and geohydrologic analysis of the Lower Crooked River Basin.

Open-File Report O-06-23, Preliminary Geologic Map of the Ochoco Reservoir 7.5' Quadrangle, Crook County, Oregon, by Jason D. McClaughry and Mark L. Ferns, Oregon Department of Geology and Mineral Industries

The Ochoco Reservoir 7.5' quadrangle is situated at the junction of Ochoco Creek and Mill Creek, near the intersection of the High Cascades, High Lava Plains, and Blue Mountains geomorphic provinces. Topographic relief in the quadrangle ranges from 3001 ft (915 m) along the juniper- and sage-covered high desert terrain of the valley floor of Ochoco Creek to 4485 ft (1367 m) in the pine and juniper forested Ochoco Highlands on the north. The quadrangle encompasses a historic ranching and logging community that is transforming to a rural residential and recreation population. This map depicts a preliminary stratigraphic assessment for the Ochoco Reservoir area and provides a framework for further geologic and geohydrologic analysis of the Lower Crooked River Basin.

Open-File Report O-06-24, Preliminary Geologic Map of the Powell Buttes 7.5' Quadrangle, Crook County, Oregon, by Mark L. Ferns and Jason D. McClaughry, Oregon Department of Geology and Mineral Industries.

The Powell Buttes 7.5' quadrangle resides on the eastern margin of the Deschutes Basin near the juncture of the High Cascades, High Lava Plains, and Blue Mountains geomorphic provinces. Centrally located between the cities of Bend and Prineville, the quadrangle encompasses a historic ranching community that is rapidly transforming to a rural residential population. The quadrangle is juniper- and sage-covered high desert country that ranges in elevation from 5210 ft (1588 m) at Powell Buttes to a base of 2920 ft (890 m) in the Crooked River Canyon on the east. This map depicts a preliminary stratigraphic assessment for the Powell Buttes area and provides a framework for further geologic and geohydrologic analysis of the Lower Crooked River Basin.

Open-File Report O-06-26, Preliminary Geologic Map of the Albany 7.5' Quadrangle, Linn, Marion, and Benton Counties, Oregon, by Thomas J. Wiley, Oregon Department of Geology and Mineral Industries, Grants Pass Field Office.

New mapping ties discontinuous bedrock exposures to lithologic and stratigraphic data from several oil and gas wells. Variations in water depth and environment are correlated to transgressive and regressive events recognized in the Eugene, Fisher, and Spencer Formations in the Eugene area to the south. Surficial deposits define several generations of broad, coalescing, alluvial fans that interfinger with sand, gravel, and clay deposited by the Willamette River.

All Open-File Reports are available for \$10 each. The plotted posters for these reports are available for \$15. All can be purchased from the Nature of the Northwest Information Center (NNW), 800 NE Oregon Street #5, Portland, Oregon, 97232. You may also call NNW at (503) 872-2750 or order online at <http://www.naturenw.org>. There is a \$3 shipping and handling charge for all mailed items. Please allow 2 weeks for delivery.

Additionally, these items as well as all department maps 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.

The Oregon Department of Geology and Mineral Industries is an independent agency of the State. It has a broad responsibility for developing a geologic understanding of natural hazards. The Department then makes this information available to individuals, businesses and communities to help reduce the risks from 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 are key to decision-making. The Department is also the lead State regulatory agency for mining, oil, gas and geothermal exploration, production, conservation and reclamation.

For more information, contact James Roddey at 800 NE Oregon St., Portland, OR 97232, (971) 673-1543 or on cell phone at (503) 807-8343. DOGAMI field offices can be contacted at: 1510 Campbell St., Baker City, (541) 523-3133; 5375 Monument Drive, Grants Pass, (541) 476-2496; and the Mined Land Regulation and Reclamation Program, 229 Broadalbin St. SW, Albany, (541) 967-2039.

Learn more about Oregon's geology by going online at:

<http://www.oregongeology.com>

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@dogami.state.or.us
<http://www.oregongeology.com>