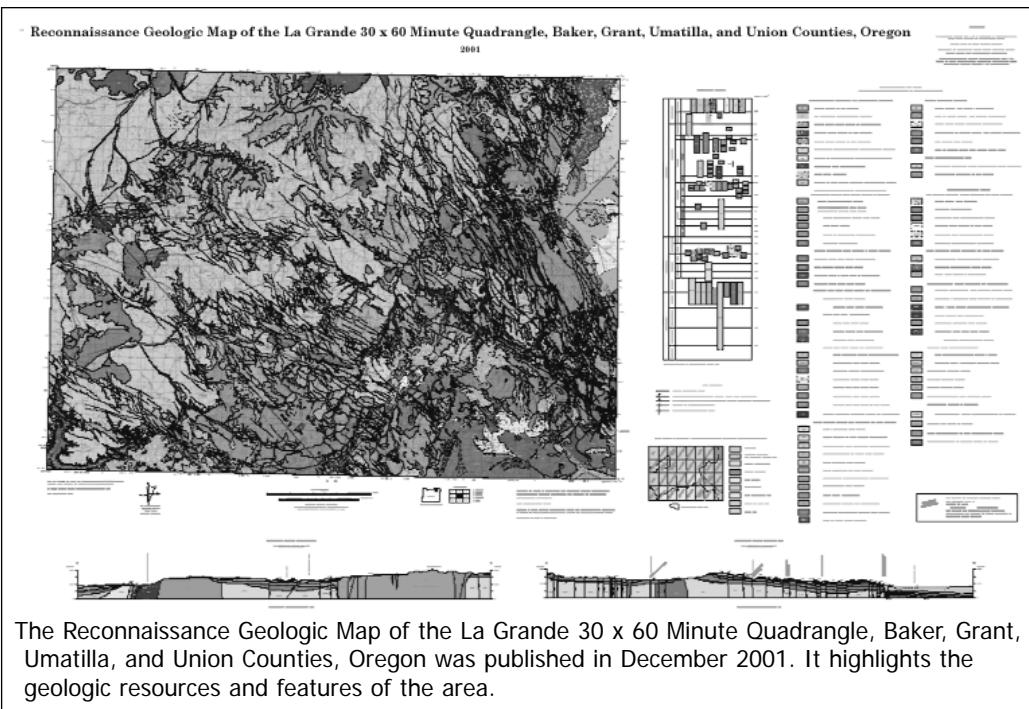


*Oregon Department of*  
**GEOLOGY and MINERAL INDUSTRIES**

# PUBLICATIONS FEBRUARY 2004



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## GENERAL INFORMATION

This list of publications of the Department of Geology and Mineral Industries (DOGAMI) contains maps and reports from 1937 through December 2003. Publications are indexed by both subject and series. Some USGS publications are included.

All references to topographic/geologic quadrangles refer to 7.5 minute quadrangles, unless otherwise noted.

Map size	Scale	1 inch represents
7.5'	1:24,000	2,000 ft.
15'	1:62,500	1 mile
30' x 60'	1:100,000	1.6 miles
1° x 2°	1:250,000	4 miles

Previous issues of the Department's magazine, Oregon Geology, are available for \$3 each.

All orders totaling less than \$50 require prepayment by cash, check or credit card (VISA or MasterCard only).

All DOGAMI publications, both in and out of print, are available for inspection at the Department offices (most reports "on file" are in the Portland office only) and at many state-document depository libraries in Oregon, including most Oregon college and university libraries. They are also available at the libraries of many state geological surveys, or state universities in the western US, and in USGS libraries in Menlo Park, California; Denver, Colorado; and Reston, Virginia.

Publications are also available via interlibrary loan from the Oregon State Library, State Library Building, Salem, OR 97310. Ask your local librarian for assistance.

DOGAMI offices also have other publications related to Oregon for sale, including topographic and geologic maps published by the US Geological Survey (USGS).

The Nature of the Northwest Information Center in Portland also stocks natural-resource and outdoor-recreation publications for other state and some federal agencies, including the US Forest Service and Bureau of Land Management.

For information about Oregon's geology, try these resources:

**Oregon Department of Geology and Mineral Industries:**  
<http://www.OregonGeology.com>

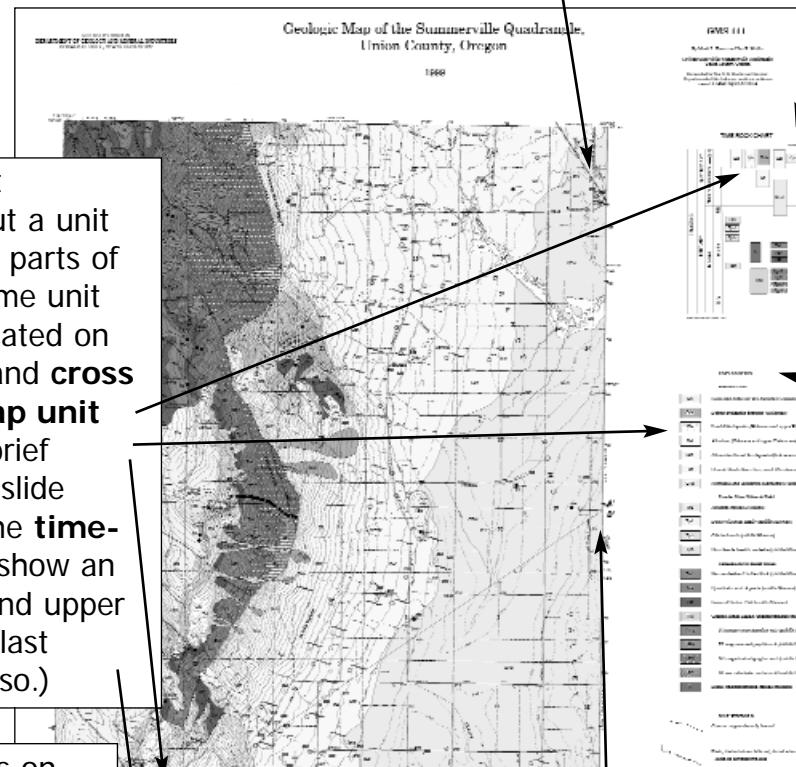
**USGS Ask a geologist:**  
<http://ask.usgs.gov/>  
(or call 1-888-ASK USGS)

For mining claim information, call the Bureau of Land Management:

**503-808-6001**  
<http://www.or.blm.gov>

# GEOLOGIC MAP AT A GLANCE

The **map view**, as if you were looking down from a birds' eye, is similar to a road map. In this case, it includes a base map that has contour lines, roads, and rivers and other geographic features. This is the Summerville quadrangle, named for a community in the map area.



You get different information about a unit from the various parts of the map: the same unit (**QIs**) can be located on the **map view** and **cross section**, the **map unit** section gives a brief description (landslide deposits), and the **time-rock chart** will show an age (Holocene and upper Pleistocene, the last 20,000 years or so.)

The colored areas on the map represent **geologic units**. Each unit is a package of related rocks that were formed by similar processes.

At each end of a **cross-section** is a letter (B-B'). You can match these letters to the **map view**.

The **time rock chart** is a quick way to see the age of rock units. The youngest units are at the top. More than one unit at a time can be formed. For example, a volcano might be erupting in one part of the map area at the same time rivers are depositing sediment somewhere else.

**Map units** describe rock types found at ground level and include a unit name and brief description.

**Map symbols** are explained. Geologic maps may show faults and landslides that might be interpreted as geologic hazards. The maps may also show geochemical sample sites that may indicate the presence of mineral resources.

**Cross-sections** are a way of picturing geologic units that are underground. They are comparable to imagining a wall that extends below the surface. Faults, wells, and drill holes are often shown, because they can be used to visualize what the subsurface looks like. Faults can be important in determining the future risk of earthquakes. They can also be critical in determining paths of groundwater flow and recharge.

Cross sections are interpreted from surface features and are the geologist's best judgment of what is under the surface.

## NEW PUBLICATIONS

**IMS-23.** Tsunami Hazard Map of the Alsea Bay (Waldport) Area, Lincoln Co., Oregon, by G.R. Priest & J.C. Allen, 2003, 27 p. 1:24,000. . . . CD only, **\$10**

**GMS-116.** Geologic map of the Bonanza quadrangle, Klamath County, Oregon, by Frank R. Hladky, 2003, 22 p. 1:24,000. . . . CD only, **\$10**

**GMS-115.** Geologic map of Mount Fanny and Little Catherine Creek quads, Union and Wallowa Cos., Oregon, by M. Ferns, I. Betteridge, V. McConnell, 2003, 28 p. 1:24,000. . . . CD only, **\$10**

**GMS-114.** Geologic Map of the Imbler 7.5 minute quadrangle, Union County, OR, by Mark L. Ferns, Ian P. Madin, Vicki S. McConnell and J. Van Tassell, 2002, . . . . 1 CD, **\$10**

**GMS-112.** Geologic map of Dairy quad, Klamath Co., Or., by Frank R. Hladky 2003, 20 p. 1:24,000. . . . CD only, **\$10**

OPEN-FILE REPORT **O-03-10.** Earthquake

and Landslide Hazard maps in Clackamas County, Oregon, by Jon Hofmeister 2003, . . . . CD only, **\$10**

OPEN-FILE REPORT **O-03-09.**

Earthquake and Landslide Hazard maps in Clackamas County, Oregon, by Jon Hofmeister 2003, paper map, . . . . **\$15**

OPEN-FILE REPORT **O-03-08.** Review of Geologic Report for Surfrider Resort Proposal, Lincoln Co., Or., by George R. Priest, Jonathan C. Allen and Yumei Wang, 2003, . . . . CD only, **\$10**

OPEN-FILE REPORT **O-03-07.**

Reconnaissance Geologic Evaluation for Building Stability of a Portion of the Moolack Beach Landslide, Lincoln Co., Or. 2003 by George R. Priest, . . . . CD only, **\$10**

OPEN-FILE REPORT **O-03-06.** Tsunami Sign Placement Guidelines, 2003, Mark Darienzo, . . . . CD only, **\$10**

OPEN-FILE REPORT **O-03-05.**

Development in Oregon's Tsunami Indunation Zone: Information Guide for Developers and Local Government, 2003, Dennis Olmstead, .CD only, **\$10**

OPEN-FILE REPORT **O-03-04.** Tsunami Preparedness Guide for Oregon Lodging Facilities, . . . . CD only, **\$10**

OPEN-FILE REPORT **O-03-03.** Draft Geologic Map of the Merrill and Malin Quadrangles, Klamath Falls County, Oregon by Margaret D. Jenks and Ian P. Madin, . . . . CD only, **\$10**

OPEN-FILE REPORT **O-03-02.** Map of Selected Earthquakes for Oregon 1841 through 2002C.A. Niewendorp &M.E. Neuhaus

CD only . . . . **\$10**  
plot of map . . . . **\$15**

## PUBLICATIONS BACK IN PRINT

These Bulletins are now back in print, although only on compilation CDs in .pdf files. Each report has been out of print for some time.

Check our website for updates as we make more out of print publications available. For more information on these reports, check the Bulletin index starting on page 14.

**B-77.** Geologic field trips in northern Oregon and southern Washington, 1973

**B-73.** Geologic formations of eastern Oregon (east of 121°30'), 1972

**B-70.** Geologic formations of western Oregon (west of 121°30'), 1971

**B-64.** Mineral and water resources of Oregon, 1969

**B-62.** Andesite Conference guidebook, 1968

**B-57.** Lunar Geological Field Conference guidebook

**B-50.** Field guide: Geologic trips along Oregon highways, 1959

**B-49.** Lode mines of the central part of Granite mining district, Grant Co., 1959

**B-41.** Groundwater studies in Umatilla and Morrow Counties, 1949

**B-30.** Mineralogical and physical composition of the sands of Oregon coast from Coos Bay to mouth of the Columbia River, 1946

**B-29.** Ferruginous bauxite deposits in northwest Oregon, 1945

**B-26.** Soil, the most valuable mineral resource, 1944

Here are collections of Bulletins which can now be purchased on CD in .pdf files. Some of the Bulletins on these disks are available only in this format. Others are also available on paper. For more information, check the Bulletin index starting on page 15.

**COMPILED CD 1 \$25**  
**Selected Bulletins published between 1938 and 1958**

1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 13, 16, 17, 18, 19, 20, 21, 23, 24, 25, 26, 28, 29, 30, 32, 33, 36, 38, 41, 42, 43, 44, 45, 47, 48

**COMPILED CD 2 \$25**  
**Selected Bulletins published between 1959 and 1974**

49, 50, 51, 53, 54, 56, 57, 59, 62, 63, 64, 65, 67, 68, 70, 71, 73, 76, 77, 78, 86

**COMPILED CD 3 \$25**  
**Selected Bulletins published between 1977 and 1987**

92, 96, 97, 101, 102, 103

**B-24.** Origin of the black sands of the coast of southwest Oregon, 1943

**B-23.** An investigation of reported occurrence of tin at Juniper Ridge, 1942

**B-20.** Analyses and properties of Oregon coals as related to their use, 1940

**B-19.** Dredging of farmland in Oregon, 1939

**B-18.** First aid to fossils, 1939

**B-17.** Manganese in Oregon, 1942

**B-11.** The geology and mineral resources of Lane County, 1938

**B-10.** Placer mining on the Rogue River and its relation to fish and fishing, 1938

**B-9.** Chromite deposit in Oregon, 1938

**B-8.** Investigation of feasibility of a steel plant in the lower Columbia River near Portland, 1940

**B-7.** Gem minerals of Oregon, 1938

**B-6.** Preliminary report on some of the refractory clays of western Oregon, 1938

**B-5.** Geological report on part of Clarno basin, Wheeler and Wasco Counties, 1938

**B-4.** Quicksilver in Oregon, 1938

**B-2.** Progress report on the Coos Bay coal field, 1938

**B-1.** Mining laws of the State of Oregon, 1937

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## ROCKS, MINERALS, GEMSTONES – SEE ALSO MAPS BY COUNTY

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## GEOPHYSICS, GEOCHEMISTRY, GEOMORPHOLOGY – SEE ALSO MAPS BY COUNTY

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<p><b>Bibliographies</b> Baker 1°x2° quad <i>O-79-4a,b</i> Bend 1°x2° quad <i>O-79-4d,e</i> Canyon City 1°x2° quad <i>O-79-4f,g</i> Cascade mapping <b>O-84-4</b> <i>Columbia Plateau (Col. R. basalt) O-79-1</i> Geology &amp; mineral resources of Oregon: (1936-1945) <b>B-33</b> (1946-1950) <b>B-44</b> (1951-1955) <b>B-53</b> (1956-1960) <b>B-67</b> (1961-1970) <b>B-78</b> (1971-1975) <b>B-97</b> (1976-1979) <b>B-102</b> (1980-1984) <b>B-103</b> Grangeville 1°x2° quad <i>O-79-4h</i> Landslide deposits <b>O-82-6</b> Mapping indexes <b>GMS-14, O-97-33, O-95-4, MP-12</b> Mt. Hood <b>O-75-5</b> Ocean floor off Oregon <b>GMS-39</b> Oil &amp; gas explor. 1896-1989 <b>O-89-10</b> Ore Bin/OR Geology indexes <b>SP-16, MP-13</b> Paleontology <b>SP-17</b> Pendleton 1°x2° quad <b>O-81-10, O-79-4i</b> The Dalles 1°x2° quad <b>O-81-10, O-79-4j</b> Theses &amp; dissertations <b>SP-11, MP-7</b></p>	<p><b>Biennial reports, 1937-1974</b> <b>B-13, -21, -25, -28, -32, -38, -42, -43, -45, -47, -48, -51, -54, -56, -59, -63, -68, -76, -86</b></p> <p><b>Crater Lake</b> Andesite Conference guidebook <b>B-62</b> Comparative physiographic diagrams, Mount St. Helens &amp; Crater Lake <b>MF-1403</b> Lunar Geological Field Conference guidebook <b>B-57</b> Volcano hazards <b>OFR 97-487</b></p> <p><b>Digital mapping</b> Experimental digital shaded relief maps of Oregon <b>I-2271</b> Digital shaded relief of US <b>I-2206</b> Requirements, agencies <b>O-84-6, O-86-17</b></p> <p><b>Formations</b> Cenozoic volcanic rocks, index to potassium-argon ages <b>MF-569</b> <i>Columbia River basalt bibliography O-79-1</i> John Day Formation in the SW part of the Blue Mtns. <b>I-872</b> Oregon, East half <b>B-73</b>, West half <b>B-70</b> Pleistocene Lakes in the Great Basin <b>I-416</b> Post-Columbia River Basalt Group <b>O-81-10</b> Rattlesnake Fm. <b>SH-25</b> Volcanic centers, late Cenozoic, W. US <b>I-1523</b></p>	<p>Volcanic centers, Cenozoic, OR/WA. <b>I-1091D</b></p> <p><b>Cascade Range geology</b> Geologic map of a part of the Cascades 43°-44° <b>I-1891</b> Mt. Adams volcanic field geologic map <b>I-2460</b> Mt. Bachelor chain geologic map <b>I-1967</b> Physiographic diagrams, Mt. St. Helens and Crater Lake <b>MF-1403</b> Volcanoes, Cascades, late Cenozoic <b>I-1507</b> Volcanics, Upper. Eocene to Holocene <b>I-2563</b> Volcano hazards Crater Lake <b>OFR 97-487</b> Mt. Hood <b>OFR 97-89</b> Mt. Rainier, <b>OFR 98-428</b> Mt. St. Helens <b>OFR 95-497</b> Newberry Volcano <b>OFR 97-513</b></p> <p><b>Gorda Ridge studies</b> Biology/ecology Benthic fauna <b>O-86-11, O-87-5</b> Escanaba Trough vent communities <b>O-89-5</b> Nekton <b>O-86-7</b> Plankton <b>O-86-8</b> Sea Cliff exploration, N. ridge <b>O-89-6</b> Seabirds <b>O-86-9, O-87-4</b> Hydrothermal activity studies Effluents <b>O-89-7</b> Heat flow <b>O-86-12</b> Precipitates from basalts <b>O-86-18</b></p>
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## WATER RESOURCES AND MISCELLANEOUS GEOLOGIC TOPICS

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## MAPS BY COUNTY (QUADRANGLE MAPS HAVE INFO ABOUT WATER, HAZARDS, OTHER TOPICS)

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PUBLICATIONS OF THE OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

## MAPS BY COUNTY (QUADRANGLE MAPS HAVE INFO ABOUT WATER, HAZARDS, OTHER TOPICS)

<p><i>Hill, Rabbit Valley, Whistler Point, Williams Prairie</i></p> <p>30'x60' Stephenson Mountain <b>O-86-4</b> Dutchman Ck, Foley Butte, Opal Mtn. <i>1°x2° Bend O-79-4d,e</i> <i>1°x2° Canyon City O-79-4f,g</i></p> <p><b>Curry County</b> Coastal critical facilities vulnerable to hazards <b>O-95-2</b> Coastal sands, mineralogy <b>B-30</b> <i>Coastal zone hazards inventory MP-17</i> Continental margin geology <b>GMS-42</b> EQ maps for urban areas <b>IMS-10</b> <i>Eocene stratigraphy, SW Oregon B-83</i> Geology, min. resources, rock material <b>B-93</b> Geology &amp; oil, gas, &amp; coal resources, S. Tyee basin <b>O-89-3</b> Land use geology, W. Co. <b>B-90</b> Lithology, forams, SW wells <b>O-80-13</b> <i>Metal mines handbook B-14C-I</i> North Fork Smith River roadless area Geochemistry <b>MF-1423C</b> Mineral resource potential <b>MF-1423B</b> Geology <b>MF-1423A</b>. Rogue River placer mining <b>B-10</b> Relative EQ hazard maps <b>IMS-10</b> S. Tyee basin oil, gas, coal <b>OGI-18</b>, <b>OGI-19</b>, <b>O-89-3</b> <i>SW coast geology B-69</i> <i>SW Oregon Eocene stratigraphy B-83</i> Upper Chetco drainage area <b>B-88</b> Tsunami hazard maps by quad <b>O-95-53 thru -66</b> Tsunami map of Gold Beach <b>IMS-13</b> Wild Rogue Wilderness: Aeromagnetics <b>MF-1381C</b> Geochemistry <b>MF-1381B</b> Geology <b>MF-1381A</b> Mineral resource potential <b>MF-1381D</b> Quadrangles mapped: 15' Agness <b>B-90</b> Agness, Illahe, Ophir Mtn., Soldier Camp Mtn. 15' Cape Blanco <b>B-90</b> Cape Blanco, Floras Lake 15' Cape Ferrelo <b>B-90</b> Brookings, Carpenterville, Mack Point 15' Gold Beach <b>B-90</b> Cape Sebastian, Gold Beach, Signal Buttes, Sundown Mtn. 15' Langlois <b>B-90, O-82-3</b> Calf Ranch Mtn., Langlois, Mt. Butler, Sixes 15' Marial <b>MF-1735</b> 15' Mt. Emily <b>B-90</b> Bosley Butte, Fourth of July Creek, Mt. Emily, Quail Prairie Mtn. 15' Pearsoll Peak <b>B-40</b> <i>Pearsoll Pk, Silver Pk, Tincup Peak, York Butte</i> 15' Pearsoll Peak <b>GMS-30</b> 15' Port Orford <b>B-90</b> Brushy Bald Mtn., Father Mtn., Ophir,</p>	<p>Port Orford 15' Powers <b>GMS-5</b> Barklow Mtn., China Flat, Dement Creek, Powers 30' Kerby <b>B-40</b> <i>Biscuit Hill, Buckskin Pk, Chetco Pk, Josephine Mtn.</i> W. of 123°30' Bibliography map <b>GMS-39</b> Geologic map <b>GMS-42</b> Mineral resources map <b>GMS-37</b></p> <p><b>Deschutes County</b> Deschutes Canyon further planning area geology <b>MF-1303A</b> Geology &amp; mineral resources <b>B-89</b> Mt. Bachelor chain geologic map <b>I-1967</b> Lava tubes in Bend area <b>B-71</b> <i>Maars MP-10</i> Newberry volcano <b>O-83-3, O-88-3, OFR 97-513</b> NW Broken Top quad geology <b>SP-21</b> Powell Buttes area <b>O-80-8</b> Powell Buttes gravity &amp; aeromag <b>O-82-8</b> Smith Rock area <b>I-1142</b> SW Broken Top quad field geology <b>SP-2</b> Three Sisters Wilderness, geology <b>MF-1952</b> Three Sisters volcano hazards <b>OFR 99-437</b> <i>Volcanic landforms MP-10</i> Quadrangles mapped: Bend, W. half <b>MF-2189</b> Crescent <b>I-493</b> Henkle Butte <b>GMS-95</b> Shevlin Park, E. half <b>MF-2189</b> Three Creek Butte <b>GMS-87</b> Tumalo Dam <b>GMS-81</b> Steelhead Falls <b>GMS-101</b> 15' Broken Top (NW) Trout Creek Butte <b>SP-21</b> (SW) Lake Geneva <b>SP-2</b> 30' Bend <b>QM-1</b> Alfalfa, Bend, Bend Airport, Cline Falls, Forked Horn, Gray Butte, Henkle Butte, O'Neil, Opal City, Powell Butte, Redmond, Shevlin Park, Squawback Ridge, Steelhead Falls, Tumalo, Tumalo Dam</p> <p><b>Douglas County</b> Biostratigraphy of exploratory wells <b>OGI-11</b> Coastal critical facilities vulnerable to hazards <b>O-95-2</b> Coastal sands, mineralogy <b>B-30</b> <i>Coastal zone hazards inventory MP-17</i> Continental margin geology <b>GMS-42</b> Crater Lake hazards <b>OFR 97-487</b> Mined land reclamation status <b>MLRS-10</b> EQ maps for urban areas <b>IMS-9, IMS-10</b> <i>Environmental geology W. Co. B-87</i> <i>Eocene stratigraphy, SW Oregon B-83</i> Foraminifera, Long Bell 1 well <b>OGI-3</b> <i>Geology &amp; mineral resources B-75</i> Lithology, forams, SW wells <b>O-80-13</b></p>	<p><i>Metal mines handbook B-14C-I</i> Relative EQ hazard maps <b>IMS-10</b> S. Tyee basin oil, gas, coal <b>OGI-18</b>, <b>OGI-19</b>, <b>O-89-3</b> <i>SW Oregon Eocene stratigraphy B-83</i> Tsunami hazard maps by quad <b>O-95-38 &amp;-43, OFR 97-31 &amp;-32</b> Umpqua R., geology of lower area <b>OM-204</b> Wild Rogue Wilderness: Aeromagnetics <b>MF-1381C</b> Geochemistry <b>MF-1381B</b> Geology <b>MF-1381A</b> Mineral resource potential <b>MF-1381D</b> Quadrangles mapped: Camas Valley <b>GMS-76</b> Kenyon Mountain <b>GMS-83</b> Mt. Gurney <b>GMS-85</b> Reston <b>GMS-68</b> Richter Mountain <b>GMS-103</b> Tenmile <b>GMS-86</b> 15' Reedsport <b>B-87</b> <i>Lakeside, Reedsport, Trail Butte, Winchester Bay</i> 15' Siltcoos Lake <b>B-87</b> <i>Fivemile Ck, Florence, Goose Pasture, Tahkenitch Ck</i> 30' Butte Falls <b>QM-2</b> Abbott Butte, Butler Butte, Pickett Butte, Ragsdale Butte, Richter Mtn., Sugarpine Ck, Tiller 30'X60' Roseburg <b>OFR 00-376</b> W. of 123°30' Bibliography map <b>GMS-39</b> Geologic map <b>GMS-42</b> Mineral resources map <b>GMS-37</b></p> <p><b>Gilliam County</b> Standard Kirkpatrick 1 strat <b>O-87-2</b> Quadrangles mapped: 10°x2° Pendleton <b>O-81-10, O-79-4i</b> 10°x2° The Dalles <b>GMS-27, O-81-10, O-79-4j</b></p> <p><b>Grant County</b> Aldrich Mtns pre-Tertiary rocks <b>I-1021</b> Dredging of farmland <b>B-19</b> Geochemical data <b>O-84-3</b> Granite mining district lode mines <b>B-49</b> <i>John Day area eng. geology O-76-6</i> <i>Metal mines handbook B-14B</i> <i>Morning Mine region B-39</i> North Fork John Day River roadless area Geologic map <b>MF-1581C</b> Geochemical map <b>MF-1581B</b> Mineral resource potential <b>MF-1581A</b>. <i>Suplee-Izee area B-58</i> Quadrangles mapped: Reconnaissance map <b>I-2215</b> Bourne <b>GMS-19</b> Bullrun Rock <b>O-79-6</b> Desolation Butte <b>GQ-1654</b> Granite <b>GMS-25</b> Greenhorn <b>GMS-28</b></p>
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## MAPS BY COUNTY (QUADRANGLE MAPS HAVE INFO ABOUT WATER, HAZARDS, OTHER TOPICS)

<p>Mt. Ireland <b>GMS-22</b>      15' Aldrich Mtn. <b>GQ-438, MF-49</b>      15' Bates        (NW) Boulder Butte <b>GMS-31</b>        (SW) Dixie Meadows <b>GMS-35</b>        (NE) Vinegar Hill <b>GMS-29</b>      15' Burns <b>MF-320</b>      15' Izee <b>MF-82</b>      15' Logdell <b>MF-82</b>      15' Mt Vernon <b>GQ-548, MF-50</b>      15' Monument <b>GQ-541</b>      15' Myrtle Butte quad <b>MF-320</b>      30' Ironside Mountain QM-4        <i>Buck Trough Spring, Bullrun Rock, Castle Rock, Clevenger Butte, Crane Prairie, Deardorff Mtn., DeBoard Peaks, Eldorado Pass, Flag Prairie, Hereford, Hunter Mtn., Knox Mtn., Little Baldy Mtn., Rail Gulch, Rastus Mtn., Unity</i>      30' Sumpter QM-8        <i>Anthony Lakes, Austin, Crawfish Lake, Granite, Greenhorn, Mt. Ireland, Pogue Point, Trout Meadows, Whitney</i>      30' x 60' La Grande <b>RMS-1</b>        1°x2° Canyon City O-79-4f,g</p> <p><b>Harney County</b>      Alvord Desert area <b>O-80-10</b>      BLM Wilderness Study Areas O-83-2      Diamond Craters MP-10      N. Harney basin O-80-6      S. Harney basin O-80-7      High Steens &amp; Little Blitzen Gorge Wilderness study areas geologic map <b>MF-1876</b>      Pine Creek area (Rare II), geology and geochem. sample localities <b>MF-1237</b>      Sheephead Mtns. geology <b>MF-2079</b>      Suplee-Izee area B-58      Quadrangles mapped:        Alvord Hot Springs <b>MF-1916</b>        Irish Lake <b>MF-2256</b>        Krumbo Reservoir <b>MF-2267</b>        Little Whitehorse Creek <b>MF-1472</b>        Wildhorse Lake <b>MF-1915</b>      15' Burns (S) <b>GMS-20</b>        Burns, Burns Butte      30' Ironside Mountain QM-4        <i>Buck Trough Spring, Castle Rock, Knox Mtn.</i></p> <p><b>Hood River County</b>      EQ hazard map for Hood River <b>IMS-7</b>      Geologic hazards, N. Co. <b>B-91</b>      Mt. Hood geologic history <b>ORF 97-263</b>      Mt. Hood volcanic hazards <b>ORF 97-89</b>      Mt. Hood Wilderness:        Aeromag and Bouger gravity <b>MF-1379D</b>        Geochemistry <b>MF-1379C</b>        Geothermal investigations <b>MF-1379B</b>        Min. &amp; geotherm. potential <b>MF-1379E</b>      Quadrangles mapped:        Dufur <b>I-556</b></p>	<p>15' Bonneville Dam <b>B-91</b>        <i>Bonneville Dam, Carson</i>      15' Hood River <b>B-91</b>        <i>Dee, Hood River, Mt. Defiance, Parkdale</i>      15' White Salmon <b>B-91</b>        <i>Ketchum Reservoir, White Salmon</i>      1°x2° The Dalles <b>GMS-27, O-81-10,</b>        O-79-4j</p> <p><b>Jackson County</b>  <i>Applegate River gravel resources O-70-2</i>  <i>Bear Ck/Rogue R. valleys sand/gravel O-70-1</i>  <i>Butte Falls quad quicksilver SH-3</i>      Crater Lake hazards <b>ORF 97-487</b>      Dredging of farmland <b>B-19</b>      EQ hazard maps for urban areas <b>IMS-9</b>      Geology &amp; oil, gas, coal resources, S. Tyee basin <b>O-89-3</b>      Geophys./geochem., granite plutons, Medford quad. <b>MF-1383E</b>      Gold in stream sediments, Medford 1°x 2° quad <b>MF-1383H</b>      Gold (lode) characteristics, Medford 1°x 2° quad <b>MF-1383D</b>      Klamath Mtns. geologic map <b>I-2148</b>  <i>Lake Ck district, Tyrell manganese SH-10</i>      Land use geology, central Co. <b>B-94</b>      May Creek schist geol. map <b>MF-2171</b>      Medford 1°x 2° quad aeromag <b>MF-1383B</b>  <i>Metal mines handbook B-14C-II-2</i>      Platinum-and gold in parts of Medford and Coos Bay 1°x 2° quads <b>MF-1832</b>      Rogue River, placer mining &amp; fish <b>B-10</b>      Sky Lake roadless area:        Geology <b>MF-1507A</b>        Mineral resource potential <b>MF-1507B</b>  <i>Stream-sediment analyses, SW OR O-69-1</i>      Quadrangles mapped:        Boswell Mountain <b>GMS-70</b>        Brownsboro <b>GMS-109</b>        Camas Valley <b>GMS-76</b>        Cleveland Ridge <b>GMS-73</b>        Eagle Point <b>O-93-13</b>        Grizzly Peak <b>GMS-106</b>        Lakecreek <b>GMS-88</b>        McLeod <b>GMS-80</b>        Medford <b>GQ-89</b>        Medford East <b>O-93-13</b>        Medford West <b>O-93-13</b>        Richter Mountain <b>GMS-103</b>        Rio Canyon <b>GMS-108</b>        Sams Valley <b>O-93-13</b>        Shady Cove <b>GMS-52</b>      15' Ashland <b>B-94</b>        <i>Ashland, Emigrant Lake, Mt. Ashland, Siskiyou Pass</i>      15' Gold Hill <b>B-94</b>        <i>Applegate, Gold Hill, Mt. Isabelle, Rogue River</i>      15' Lakecreek <b>B-94</b>        <i>Brownsboro, Rio Canyon</i>      15' May Creek Schist <b>MF-2171</b>      15' Medford <b>B-94</b></p>	<p>Eagle Point, Medford E., Medford W., Sams Valley      15' Ruch <b>B-94</b>      Carberry Ck, Ruch, Squaw Lakes, Tallowbox Mtn.      15' Talent <b>B-94</b>      Sterling Creek, Talent      15' Trail <b>B-94</b>      Boswell Mtn., Shady Cove, Trail      15' Wimer <b>B-94, MF-848</b>        Wimer      Medford (1:96,000) <b>GQ-89</b>      30' Butte Falls QM-2        <i>Abbott Butte, Boswell Mtn., Butte Falls, Cascade Gorge, Cleveland Ridge, McLeod, Obenchain Mtn., Ragsdale Butte, Richter Mtn., Shady Cove, Sugarpine Creek, Trail, Whetstone Point</i>      30' Grants Pass QM-3        <i>Applegate, Carberry Ck, Gold Hill, Mt. Isabelle, Rogue River, Ruch, Squaw Lakes, Tallowbox Mtn.</i>      30' Medford QM-6        <i>Ashland, Brownsboro, Dutchman Pk., Eagle Pt., Emigrant Lake, Grizzly Pk., Lakecreek, Medford East, Medford West, Mt. Ashland, Rio Canyon, Sams Valley, Siskiyou Pass, Siskiyou Pk., Sterling Ck., Talent</i>      30' x 60' Medford (SW part) O-97-03</p> <p><b>Jefferson County</b>      Deschutes Canyon further planning area geology <b>MF-1303A</b>      Geol. &amp; geotherm., Santiam Pass <b>O-92-3</b>      Mineral assessment, Stephenson Mtn. <b>O-86-4</b>  <i>Oregon King Mine SH-23</i>      Powell Buttes gravity/aeromag. maps <b>O-82-8</b>      Smith Rock area <b>I-1142</b>      Quadrangles mapped:        Bend <b>I-568</b>        Black Butte <b>O-92-3</b>        Eagle Butte <b>GMS-43</b>        Gateway <b>GMS-43</b>        Little Squaw Back <b>O-92-3</b>        Madras <b>I-555</b>        Madras East <b>GMS-45</b>        Madras West <b>GMS-45</b>        Metolius Bench <b>GMS-44</b>        Olallie Butte <b>SP-9</b>        Seekseequa Junction <b>GMS-44</b>        Steelhead Falls <b>GMS-101</b>        Three Fingered Jack <b>O-92-3</b>      30' Bend <b>QM-1</b>        Gray Butte, Opal City, Squawback Ridge, Steelhead Falls      30'x60' Stephenson Mountain <b>O-86-4</b>        Ashwood, Axehandle Butte, Brewer Reservoir, Dutchman Creek, Foley Butte, Horse Heaven Creek, Opal Mtn., Teller Butte</p> <p><b>Josephine County</b></p>
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Prices and other details are in the Series Index list beginning on page 15. Publications in *italics* are not in print.

PUBLICATIONS OF THE OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

## MAPS BY COUNTY (QUADRANGLE MAPS HAVE INFO ABOUT WATER, HAZARDS, OTHER TOPICS)

<p>Aggregate resources O-75-9  <i>Almeda Mine SH-24</i>      Continental margin geology <b>GMS-42</b>      Dredging of farmland <b>B-19</b>      EQ hazard maps for urban areas <b>IMS-9</b>  <i>Eocene stratigraphy, SW Oregon B-83</i>  <i>Geology &amp; mineral resources B-100</i>      Geology &amp; oil, gas &amp; coal resources, S. Tyee basin <b>O-89-3</b>      Gold (lode) characteristics,          Medford 1°x 2° quad <b>MF-1383D</b>      Mined land reclam. status <b>MLRS-17</b>      Klamath Mountains geologic map          (scale 1:500,000) <b>I-2148</b>      Kalmiopsis Wilderness:          Aeromagnetic <b>MF-1240D</b>          Geochemical <b>MF-1240C, MF-1240F</b>          Minerals <b>MF-1240B, MF-1240E</b>          Medford 1°x 2° quad aeromag <b>MF-1383B</b>          Metal mines handbook <b>B-14C-II-1</b>          Mt. Reuben district mines &amp; prospects <b>B-34</b>          North Fork Smith River roadless area              Geochemistry <b>MF-1423C</b>              Mineral resource potential <b>MF-1423B</b>              Geology <b>MF-1423A</b>.          Rogue River, placer mining &amp; fish <b>B-10</b>          Silver in stream sediments,              Medford 1°x 2° quad <b>MF-1383H</b>          Upper Chetco drainage area <b>B-88</b>      Quadrangles mapped:          Marial <b>MF-1735</b>              15' Cave Junction B-100                  Cave Junction, Holland, O'Brien, Takilma              15' Chetco Peak B-100                  Buckskin Peak, Josephine Mtn.              15' Collier Butte B-100                  Big Craggies, Horse Sign Butte              15' Galice B-100                  Bunker Creek, Galice, Mt. Peavine,                      Mt. Reuben              15' Glendale B-100                  Glendale, Golden, Merlin, Sexton Mtn.              15' Gold Hill <b>B-94</b>, B-100                  Applegate, Rogue River              15' Grants Pass B-100                  Grants Pass, Murphy, Murphy Mtn.,                      Wilderville              15' Marial B-100, <b>MF-1735</b>                  Hobson Horn, Kelsey Peak              15' Oregon Caves B-100                  Grayback Mtn. Kerby Pk, Oregon Caves, Williams              15' Pearsoll Peak B-100                  Pearsoll Pk, Silver Pk, Tincup Pk, York Butte              15' Pearsoll Peak <b>GMS-30</b>                  Pearsoll Peak              15' Ruch <b>B-94</b>, B-100                  Carberry Creek, Tallowbox Mtn.              15' Selma B-100, <b>MF-1349</b>                  Chrome Ridge, Eight Dollar Mtn.,     </p>	<p>O'Brien, Selma      15' Wimer B-100          King Mtn., Wimer      30' Grants Pass QM-3          Applegate, Carberry Creek, Grants Pass, Grayback Mtn., Kerby Peak.          Murphy, Murphy Mtn., Oregon Caves, Rogue River, Tallowbox Mtn., Wilderville, Williams      30' Kerby B-40          Buckskin Pk., Cave Junction, Chrome Ridge, Eight Dollar Mtn., Holland, Josephine Mtn., O'Brien, Onion Mtn., Pearsoll Pk., Selma, Silver Pk., Takilma, Tincup Pk., York Butte      W. of 123°30'          Bibliography map <b>GMS-39</b>          Geologic map <b>GMS-42</b>          Mineral resources map <b>GMS-37</b></p> <p><b>Klamath County</b>  <i>Folsom basin disposal site O-71-1</i>      EQ map of Klamath Falls <b>IMS-19</b>  <i>Maars MP-10</i>      Newberry volcano hazards <b>ORF 97-513</b>      Sky Lake roadless area:          Geology <b>MF-1507A</b>          Mineral resource potential <b>MF-1507B</b>  <i>Volcanic landforms MP-10</i>      Quadrangles mapped:          Bonanza <b>GMS-112</b>          Keno <b>GMS-102</b>          Malin <b>O-03-03</b>          Merrill <b>O-03-03</b>          15' Pelican Butte <b>GQ-1653</b>          E. of 122°, B-66          1°x2° quad., W. half Klamath Falls <b>I-2182</b></p> <p><b>Lake County</b>  <i>Alkali Lake disposal site O-71-2</i>  <i>Crack-in-the-Ground MP-10</i>      Crater Lake hazards <b>ORF 97-487</b>      Diablo Mtn. Wilderness Study Area <b>MF-2121</b>      Gearhart Mtn. Wilderness geology &amp; mineral resource potential <b>MF-1367</b>      Glass Buttes area electr. resistivity <b>O-76-1</b>  <i>Hole-in-the-Ground MP-10</i>      Lakeview area <b>O-80-9</b>  <i>Maars MP-10</i>      Newberry volcano hazards <b>ORF 97-513</b>  <i>Pluvial Fort Rock Lake SP-7</i>  <i>Sodium salts SH-17</i>  <i>Volcanic landforms MP-10</i>      Quadrangles mapped:          Crane Mountain <b>O-80-9</b>          Crescent <b>I-493</b>          Crook Peak <b>O-80-9</b>          Horse Prairie <b>O-80-9</b>          W. of 120°15' B-66          1° x 2°, W half Klamath Falls <b>I-2182</b></p> <p><b>Lane County</b>      Belknap-Foley area <b>O-80-2</b></p>	<p>Biostrat. of exploratory wells <b>OGI-11</b>      Coastal critical facilities vulnerable to hazards <b>O-95-2</b>      Coastal sands, mineralogy <b>B-30</b>  <i>Coastal zone hazards inventory MP-17</i>      Continental margin geology <b>GMS-42</b>      EQ map, Eugene-Springfield <b>IMS-14</b>      EQ maps for urban areas <b>IMS-9, IMS-10</b>  <i>Environmental geology, coastal Co. B-85</i>  <i>Eocene stratigraphy, SW Oregon B-83</i>  <i>Fall Creek district geol./geochem. O-83-5</i>      Geology &amp; mineral resources <b>B-11</b>      Geology &amp; oil, gas &amp; coal resources, S. 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## MAPS BY COUNTY (QUADRANGLE MAPS HAVE INFO ABOUT WATER, HAZARDS, OTHER TOPICS)

<p><b>O-97-09</b>, O-94-25 Moolack Beach area <b>O-97-24</b>, <b>O-97-08</b>, O-94-24 Newport Airport <b>O-97-28</b>, <b>O-94-28</b> Newport area <b>O-97-26</b>, <b>O-97-10</b>, <b>O-94-26</b> Otter Crest area <b>O-97-22</b>, <b>O-97-06</b>, <b>O-94-22</b> Roads End area <b>O-97-13</b>, <b>O-94-13</b> Salmon River <b>O-97-12</b>, <b>O-94-12</b> Seal Rock area <b>O-94-30</b> South Beach area <b>O-97-27</b>, <b>O-94-27</b> Taft-Siletz Spit <b>O-97-16</b>, <b>O-94-16</b> Continental margin geology <b>GMS-42</b> Dallas/Valsatz quadrangles <b>B-35</b> EQ maps for urban areas <b>IMS-10</b> Earthquake/tsunami maps, Siletz Bay <b>GMS-93</b>, <b>GMS-99</b>, <b>O-95-5</b>, <b>O-95-6</b> <i>Environmental geology</i> <b>B-81</b> <i>Erosion rate data</i> <b>O-93-10</b> <i>Metal mines handbook</i> <b>B-14D</b> Recon. Geologic Eval. Building Moolack Beach <b>O-03-07</b> Review Geologic Report Surfrider Resort Proposal <b>O-03-08</b> Tsunami maps by quad <b>O-95-24</b> thru -33 Tsunami map of Alsea Bay <b>IMS-23</b> Tsunami map of Yaquina Bay <b>IMS-2</b> Quadrangles mapped: Cape Foulweather <b>I-868</b> Euchre Mtn. <b>I-868</b> 15' Alsea <b>OM-162</b> 15' Hebo <b>B-74</b>     <i>Dolph, Neskowin</i> 15' Marys Peak <b>OM-162</b> 15' Tidewater <b>I-866</b> 15' Toledo <b>I-867</b> 15' Valsatz <b>B-35</b>     <i>Valsatz, Warnicke Creek</i> 15' Waldport <b>I-866</b> 15' Yaquina <b>I-867</b> 1°x2° Vancouver, W. half <b>O-83-6</b> W. of 123°30'     <i>Bibliography map</i> <b>GMS-39</b>     <i>Geologic map</i> <b>GMS-42</b>     <i>Mineral resources map</i> <b>GMS-37</b></p> <p><b>Linn County</b> Aggregate <b>O-81-7</b> Belknap-Foley area <b>O-80-2</b> <i>Clear Lake</i> <b>MP-10</b> EQ hazard maps for urban areas <b>IMS-8</b> <i>Environmental geology</i>, <i>W. Co.</i> <b>B-84</b> <i>Metal mines handbook</i> <b>B-14D</b> Quartzville district geochemistry <b>O-81-8</b> Santiam Pass area geology &amp; geothermal resources <b>O-92-3</b> Three Sisters Wilderness geology <b>MF-1952</b> Three Sisters volcano hazards <b>ORF 99-437</b> Quadrangles mapped:     <i>Coffin Mountain</i> <b>GMS-47</b>     <i>Echo Mountain</i> <b>GMS-47</b>, <b>O-92-3</b>     <i>Harter Mountain</i> <b>O-92-3</b>     <i>Idanha</i> <b>GMS-46</b></p>	<p>Marion Forks <b>GMS-47</b> Mt. Bruno <b>GMS-46</b> Santiam Junction <b>GMS-47</b>, <b>O-92-3</b> <b>Sidney GMS-18</b> Three Fingered Jack <b>O-92-3</b> 15' Albany <b>B-37</b>     <i>Albany, Lewisburg, Riverside, Tangent</i> 15' Lebanon <b>QM-5</b>     <i>Crabtree, Lebanon, Onehorse Slough, Scio</i> <b>Malheur County</b> Avord Desert area <b>O-80-10</b> <i>BLM Wilderness Study Areas, resources</i> <b>O-83-2</b> Lower Owyhee Canyon Wilderness Study Area geologic map <b>MF-2167</b> Owyhee Canyon Wilderness Study Area geologic map <b>MF-1926</b> <i>Petroleum geology, W Snake Riv. basin</i> <b>OGI-1</b> Photogeologic map of young faults, McDermitt quad <b>MF-2177</b> Sheepshead Mtns. geology <b>MF-2079</b> State lands, mineral-resource status <b>O-72-1</b> Vale area geothermal-gradient data <b>O-75-4</b> <i>W. Snake River plain</i> <b>O-80-5</b> Quadrangles mapped:     <i>Adrian GMS-56</i>     <i>Avery Creek</i> <b>O-92-16</b>     <i>Bannock Ridge MF-1903</i>     <i>Bogus Bench</i> <b>O-92-2</b>     <i>Burnt Flat</i> <b>O-93-2</b>     <i>Cedar Mtn</i> <b>O-92-5</b>     <i>Copeland Reservoirs</i> <b>O-93-3</b>     <i>Cow Lakes</i> <b>O-92-6</b>     <i>Crowley</i> <b>O-93-4</b>     <i>Diamond Butte</i> <b>MF-1901</b>     <i>Doolittle Creek</i> <b>MF-1471</b>     <i>Double Mountain</i> <b>GMS-58</b>     <i>Downey Canyon</i> <b>O-92-7</b>     <i>Dry Creek Bench</i> <b>MF-1940</b>     <i>Grassy Mountain</i> <b>GMS-57</b>     <i>Graveyard Point</i> <b>GMS-54</b>     <i>Harper GMS-69</i>     <i>Hooker Creek</i> <b>O-92-8</b>     <i>Jonesboro GMS-66</i>     <i>Jordan Craters South</i> <b>O-92-9</b>     <i>Jordan Valley I-457</i>     <i>Kane Spring Gulch</i> <b>O-90-3</b>     <i>Keeney Ridge</i> <b>O-91-3</b>     <i>Little Valley GMS-72</i>     <i>Little Whitehorse Creek</i> <b>MF-1472</b>     <i>Mahogany Gap</i> <b>GMS-65</b>     <i>Malheur Butte</i> <b>O-97-2</b>     <i>McCain Creek</i> <b>O-92-10</b>     <i>Mitchell Butte</i> <b>GMS-61</b>     <i>Monument Peak</i> <b>MF-2317</b>     <i>Mustang Butte</i> <b>O-92-11</b>     <i>Namorf GMS-74</i>     <i>Olds Ferry</i> <b>GMS-13</b>     <i>Oregon Canyon</i> <b>MF-1473</b>     <i>Owyhee Dam</i> <b>GMS-55</b>     <i>Owyhee Ridge</i> <b>GMS-53</b>     <i>Pelican Point</i> <b>MF-1904</b></p>	<p>Rastus Mountain <b>O-79-7</b> <i>Rinehart Canyon</i> <b>O-93-5</b> <i>Rockville</i> <b>O-92-12</b> <b>Rooster Comb MF-1902</b> <i>Rufino Butte</i> <b>O-92-17</b> <i>Sacramento Butte</i> <b>O-92-13</b> <i>Saddle Butte</i> <b>O-92-14</b> <b>Sheaville GMS-64</b> <i>Sourdough Spring</i> <b>O-93-11</b> <b>South Mountain GMS-67</b> <b>The Elbow GMS-62</b> <b>Tims Peak MF-2316</b> <b>Vale East GMS-21</b> <b>Vines Hill GMS-63</b> <b>Westfall GMS-71</b> 15' Huntington <b>GMS-13</b>     <i>Birch Creek Meadow, Huntington</i> 30' Ironside Mountain <b>QM-4</b>     <i>Castle Rock, Clevenger Butte,</i>     <i>DeBoard Peaks, Eldorado Pass,</i>     <i>Hunter Mtn., Rastus Mtn.</i> 30' Mitchell Butte <b>GMS-2</b> Adrian, Cairo, Double Mtn., Grassy Mtn., Graveyard Point, Kane Spring Gulch, Mitchell Butte, Owyhee, Owyhee Dam, Owyhee Ridge, Sourdough Spring, The Elbow, Twin Springs, Vale E., Vale W., Vines Hill 30'x60' Mahogany Mtn <b>GMS-78</b> Bannock Ridge, Big Mud Flat, Bogus Bench, Burnt Flat, Cedar Mtn, Copeland Reservoirs, Cow Lakes, Crowley, Diamond Butte, Downey Canyon, Hooker Ck, Jordan Craters N., Jordan Craters S., Lambert Rocks, Mahogany Gap, McCain Creek, Mustang Butte, Pelican Point, Pole Creek Top, Quartz Mtn. Basin, Rinehart Canyon, Rockville, Rooster Comb, Sacramento Butte, Saddle Butte, Sheaville, Skull Spring, Star Creek Reservoir, The Hole in the Ground, Three Fingers Rock, Wall Rock Springs, Wrangle Butte 30'x60' Vale <b>GMS-77</b> Adrian, Alder Ck, Avery Ck, Cairo, Double Mtn., Grassy Mtn., Graveyard Point, Harper, Hurley Flat, Jonesboro, Kane Spring Gulch, Keeney Ridge, Little Black Canyon, Little Valley, Mitchell Butte, Monument Peak, Namorf, Owyhee, Owyhee Dam, Owyhee Ridge, Rufino Butte, Shumway Reservoir, Sourdough Spring, South Mtn., The Elbow, Tims Peak, Twin Springs, Vale E., Vale W., Vines Hill, Westfall, Westfall Butte</p> <p><b>Marion County</b> Aggregate <b>O-81-7</b> Breitenbush Hot Springs <b>SP-9</b>, <b>O-88-5</b></p>
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Prices and other details are in the Series Index list beginning on page 15. Publications in *italics* are not in print.

PUBLICATIONS OF THE OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

## MAPS BY COUNTY (QUADRANGLE MAPS HAVE INFO ABOUT WATER, HAZARDS, OTHER TOPICS)

<p>EQ maps, Salem E &amp; W quads <b>GMS-105</b>          EQ maps for urban areas <b>IMS-8</b>          EQ-induced slope instability,              W. Salem Hills <b>IMS-17, SP-30</b>          Faults, bedrock geology, sed. thickness of W.              half of Oregon City 1:100,000 quad <b>IMS-4</b>          Geologic restraints to development <b>O-77-4</b>          Mined land reclam. status <b>MLRS-24</b>  <i>Metal mines handbook B-14D</i>          Salem Hills ferruginous bauxite <b>B-46</b>  <i>Salem Hills/N. Santiam River basin B-15</i>  <i>Tualatin Valley eng. geology B-60</i>          Water-induced landslide hazards, S.              Salem Hills <b>IMS-6</b>          Quadrangles mapped:              Breitenbush Hot Spring <b>GMS-46</b>              Dayton <b>O-81-6</b>              Elk Prairie <b>GMS-51</b>              Idanha <b>GMS-46</b>              Mother Lode Mountain <b>GMS-46</b>              Mt. Bruno <b>GMS-46</b>              Mission Bottom <b>O-81-5</b>              Monmouth GMS-18              Newberg B-60              Rickreall <b>GMS-18</b>              Salem <b>OFR 00-351</b>              Salem West GMS-18              Scotts Mills <b>GMS-33, OFR 99-141</b>              Sherwood B-60              Sidney GMS-18              Silverton <b>OFR 99-141</b>              Stayton <b>OFR 99-141</b>              Stayton NE <b>GMS-34</b>              Turner <b>OFR 00-351</b>              Wilhoit <b>GMS-32</b>              15' Albany B-37                  Albany              15' Breitenbush Hot Springs <b>SP-9</b>                  Breitenbush Hot Spring, Mt. Lowe,                      Olallie Butte, Pinhead Buttes              15' Lebanon <b>QM-5</b>                  Crabtree              30'x60' Oregon City, W. half <b>IMS-4</b>              1° x 2° Salem <b>I-1893</b></p> <p><b>Morrow County</b>          Arbuckle Mtn. coal field <b>O-86-5</b>          Groundwater studies <b>B-41</b>  <i>Metal mines handbook B-14B</i>          Silica sand <b>O-84-5</b>          Quadrangles mapped:              1°x2° Pendleton <b>O-81-10, O-79-4i</b>              1°x2° The Dalles <b>GMS-27, O-81-10, O-79-4j</b></p> <p><b>Multnomah County</b>          Aggregate <b>SP-3</b>  <i>Metal mines handbook B-14D</i>          Portland SH-7, <b>GMS-59, O-90-2, O-95-7, QM-9, O-74-1, O-93-6, O-93-14</b>          Steel plant feasibility <b>B-8</b>          EQ hazard of Portland metro region  <b>GMS-79, GMS-89, GMS-91, GMS-92, GMS-104, IMS-1, IMS-15, IMS-</b></p>	<p><b>16</b></p> <p>Faults, bedrock geology, &amp; sed. thickness of W. half of Oregon City 1:100,000 quad  <b>IMS-4</b>          Mt. Hood volcanic hazards <b>OFR 97-89</b>          Quadrangles mapped:              Camas QM-9              Canby QM-9              Damascus <b>GMS-60, QM-9</b>              Estacada QM-9              Gladstone <b>O-90-2, QM-9</b>              Lake Oswego <b>GMS-59, O-90-2, QM-9</b>              Linnton <b>O-90-2</b>              Mt. Tabor <b>O-90-2, QM-9</b>              Oregon City QM-9              Portland <b>GMS-75, GMS-79, GQ-104, O-90-2, QM-9</b>              Redland QM-9              Sandy QM-9              Vancouver QM-9              Washougal QM-9              15' Portland <b>GQ-104</b>              1°x2° The Dalles <b>GMS-27, O-81-10, O-79-4j</b>              30'x60' Oregon City, W. half <b>IMS-4</b></p> <p><b>Polk County</b>          Aggregate <b>O-81-7</b>          EQ hazard maps, <b>GMS-105, IMS-7</b>          EQ-induced landslides, E. Eola Hills  <b>IMS-18, SP-30</b>  <i>Metal mines handbook B-14D</i>          Quadrangles mapped:              Amity <b>O-81-5</b>              Ballston <b>O-82-2</b>              Grand Ronde <b>GMS-24</b>              Mission Bottom <b>O-81-5</b>              Monmouth <b>GMS-18</b>              Rickreall <b>GMS-18</b>              Salem West <b>GMS-18</b>              Sheridan <b>GMS-23</b>              Sidney GMS-18              15' Dallas B-35                  Airlie North, Dallas, Falls City,                      Socialist Valley              15' Valsetz B-35                  Fanno Ridge, Valsetz, Warnicke Ck              15' Sheridan <b>OM-155</b>              15' McMinnville <b>OM-155</b>              1°x2° Vancouver, W. half <b>O-83-6</b>              W. of 123°30'                  Bibliography map <b>GMS-39</b>                  Geologic map <b>GMS-42</b>                  Mineral resources map <b>GMS-37</b></p> <p><b>Sherman County</b>          Geologic hazards, N. Co. <b>B-91</b>          Quadrangles mapped:              Dufur <b>I-556</b>              15' Wasco <b>B-91</b>                  Rufus, Wasco              15' Wishram <b>B-91</b>                  Emerson, Wishram, Biggs Jct, Locust</p>	<p>Grove              1°x2° The Dalles <b>GMS-27, O-81-10, O-79-4j</b></p> <p><b>Tillamook County</b>          Coastal critical facilities vulnerable to hazards <b>O-95-2</b>          Coastal sands, mineralogy <b>B-30</b>  <i>Coastal zone hazards inventory MP-17</i>          EQ maps for urban areas <b>IMS-10</b>  <i>Environmental geology, coastal B-74</i>  <i>Environmental geology, inland B-79</i>          Evaluation coastal erosion hazard zones along dunes, Tillamook Co. <b>O-01-03</b>  <i>Metal mines handbook B-14D</i>          Prelim. seismic hazard Tillamook Co. <b>O-01-06</b>          Relative EQ hazard maps <b>IMS-10</b>          Tillamook Highlands geology <b>OFR 94-21</b>          Tsunami maps by quad <b>O-95-16 thru -24</b>          Quadrangles mapped:              15' Birkenfeld B-79                  Clear Creek, Sunset Spring              15' Blaine B-79                  Blaine, Dovre Peak, Peninsula, Trask              15' Cannon Beach B-74                  Arch Cape, Soapstone Lake              15' Enright B-79                  Cedar Butte, Cook Ck, Jordan Ck, Rogers Pk              15' Grand Ronde B-79                  Midway, Niagara Creek, Springer Mtn.              15' Hebo B-74                  Dolph, Hebo, Neskowin, Nestucca              15' Nehalem B-74                  Foley Peak, Garibaldi, Kilchis River, Nehalem              15' Saddle Mountain B-79                  Elsie, Hamlet              15' Tillamook B-74                  Beaver, Netarts, Sand Lake, Tillamook              15' Timber B-79                  Cochran, Roaring Creek, Wood Point              1°x2° Vancouver, W. half <b>O-83-6</b>              W. of 123°30'                  Bibliography map <b>GMS-39</b>                  Geologic map <b>GMS-42</b>                  Mineral resources map <b>GMS-37</b></p> <p><b>Umatilla County</b>          Aggregate <b>SH-26</b>          Groundwater studies <b>B-41</b>  <i>Metal mines handbook B-14B</i>          Quadrangles mapped:              Crescent, W. half <b>I-2215</b>.              Desolation Butte <b>GQ-1654</b>              Grangeville <b>I-1116, MF-1902</b>              30' x 60' La Grande <b>RMS-1</b>              1°x2° Pendleton <b>O-81-10, O-79-4i</b></p> <p><b>Union County</b>          Craig Mtn.-Cove area <b>O-80-4</b>          Geology So. Grande Ronde &amp; Lower Catherine Creek <b>O-02-02</b></p>
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## MAPS BY COUNTY (QUADRANGLE MAPS HAVE INFO ABOUT WATER, HAZARDS, OTHER TOPICS)

<p>La Grande area <b>SP-6</b>  <i>La Grande area eng. geology O-71-3</i>  <b>Lignite &amp; coal resources O-85-2</b>  <i>Metal mines handbook B-14A</i>  <i>N. Wallowa Mountains B-12</i>          Quadrangles mapped:          Fly Valley <b>GMS-113</b>          Grangeville <b>I-1116, MF-1902</b>          Imbler <b>GMS-114</b>          Keating NW <b>O-77-1b</b>          Limber Creek <b>GMS-82</b>          Little Catherine Creek <b>GMS-115</b>          Mount Fanny <b>GMS-115</b>          Pendleton <b>I-727</b>          Sawtooth Ridge <b>O-77-1a</b>          Tucker Flat <b>GMS-110</b>          30' <i>Sumpter QM-8</i>  <i>Anthony Lks, Crawfish Lk, Trout Meadows</i>          30' <i>Wallowa Lake B-12, QM-10</i>  <i>Bennett Pk, Eagle Cap, Krag Pk,</i>  <i>Steamboat Lake</i>          30' x 60' La Grande <b>RMS-1</b>          1°x2° Grangeville <b>O-81-10, O-79-4h</b>          1°x2° Pendleton <b>O-81-10, O-79-4i</b></p> <p><b>Wallowa County</b>          Geochemical map of the Homestead, Lake Fork, &amp; Lick Ck roadless areas <b>MF-1612B</b>          Geologic map of the Homestead, Lake Fork, &amp; Lick Ck roadless areas <b>MF-1612A</b>  <b>Lignite &amp; coal resources O-85-2</b>  <i>Metal mines handbook B-14A</i>  <i>Snake/Imnaha R. junction minerals SH-11</i>  <b>Snake River Canyon GMS-6</b>  <i>Wallowa Mountains B-3, B-12</i>  <b>Wenaha Tucannon Wilderness MF-1536</b>          Quadrangles mapped:          Little Catherine Creek <b>GMS-115</b>          Mount Fanny <b>GMS-115</b>          Grangeville <b>I-1116, MF-1902</b>          30' <i>Wallowa Lake B-12, QM-10</i>  <i>Aneroid Mtn., Bennett Pk, Chief Joseph Mtn., Cornucopia, Deadman Point, Eagle Cap, Enterprise, Joseph, Kinney</i></p>	<p>Lake, Krag Pk, Lick Creek, Lostine, N. Minam Meadows, Steamboat Lake          1°x2° Grangeville <b>O-81-10, O-79-4h</b></p> <p><b>Wasco County</b>          Clarno basin <b>B-5</b>          Geologic hazards, N. Co. <b>B-91</b>          Mt. Hood volcanic hazards <b>OFR 97-89</b>  <i>Perlite dep. near Deschutes R. SH-16</i>          Quadrangles mapped:          Bend <b>I-568</b>          Dufur <b>I-556</b>          Eagle Butte <b>GMS-43</b>          Gateway <b>GMS-43</b>          Madras <b>I-555</b>          15' The Dalles <b>B-91</b>  <i>Petersburg, Stacker Butte, The Dalles N, The Dalles S</i>          15' White Salmon <b>B-91</b>  <i>Brown Creek, Ketchum Reservoir, Lyle, White Salmon</i>          15' Wishram <b>B-91</b>  <i>Emerson, Wishram</i>          1°x2° The Dalles <b>GMS-27, O-81-10, O-79-4j</b></p> <p><b>Washington County</b>          Aggregate <b>SP-3</b>          EQ hazards <b>GMS-59, GMS-90, GMS-91, GMS-104, IMS-1, IMS-15, IMS-16</b>          Faults, bedrock geology, &amp; sed. thickness of W. half of Oregon City 1:100,000 quad  <b>IMS-4</b>  <i>High-alumina iron ores SH-12</i>  <i>Metal mines handbook B-14D</i>  <i>Tualatin Valley eng. geology B-60</i>          Quadrangles mapped:          Beaverton <b>O-90-2</b>          Hillsboro <b>O-90-2</b>          Lake Oswego <b>GMS-59, O-90-2, QM-9</b>          Linnton <b>O-90-2</b>          Portland <b>GMS-75, -79, GQ-104, QM-9</b>          Scholls <b>O-90-2</b>          15' Portland <b>GQ-104</b>          1°x2° Vancouver, W. half <b>O-83-6</b></p>	<p>30'x60' Oregon City, W. half <b>IMS-4</b></p> <p><b>Wheeler County</b>          Clarno basin <b>B-5</b>          Geologic framework Clarno Unit <b>O-02-3</b>  <b>Lignite &amp; coal resources O-85-2</b>  <i>Mitchell quad geology B-72</i>  <i>W. Ochoco Ntl. Forest geochemical survey O-83-4</i>          Quadrangles mapped:          Bend <b>I-568</b>          Lookout Mtn. <b>I-543</b>          15' Mitchell <b>B-72</b>  <i>Keyes Mtn., Mitchell, Sutton Mtn., Toney Butte</i>          30' Round Mountain <b>QM-7</b>  <i>Mt. Pisgah, Ochoco Butte, Peterson Pt, Whistler Pt</i>          1°x2° Bend <b>O-81-10, O-79-4d,e</b>          1°x2° Canyon City <b>O-81-10, O-79-4f,g</b>          1°x2° Pendleton <b>O-81-10, O-79-4i</b>          1°x2° The Dalles <b>GMS-27, O-81-10, O-79-4j</b></p> <p><b>Yamhill County</b>          Aggregate <b>O-81-7</b>  <i>Coastal zone hazards inventory MP-17</i>          EQ hazards, <b>IMS-7</b>  <i>Metal mines handbook B-14D</i>  <i>Tualatin Valley eng. geology B-60</i>          Quadrangles mapped:          Amity <b>O-81-5</b>          Ballston <b>O-82-2</b>          Dayton <b>O-81-6</b>          Grand Ronde <b>GMS-24</b>          McMinnville <b>O-81-6</b>          Mission Bottom <b>O-81-5</b>          Sheridan <b>GMS-23</b>          15' Sheridan <b>OM-155</b>          15' McMinnville <b>OM-155</b>          1°x2° Vancouver, W. half <b>O-83-6</b>          W. of 123°30'  <i>Bibliography map GMS-39</i>  <i>Geologic map GMS-42</i>  <i>Mineral resources map GMS-37</i></p>
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## STATEWIDE AND REGIONAL MAPS

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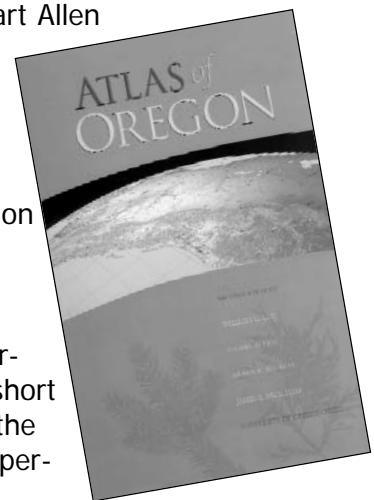
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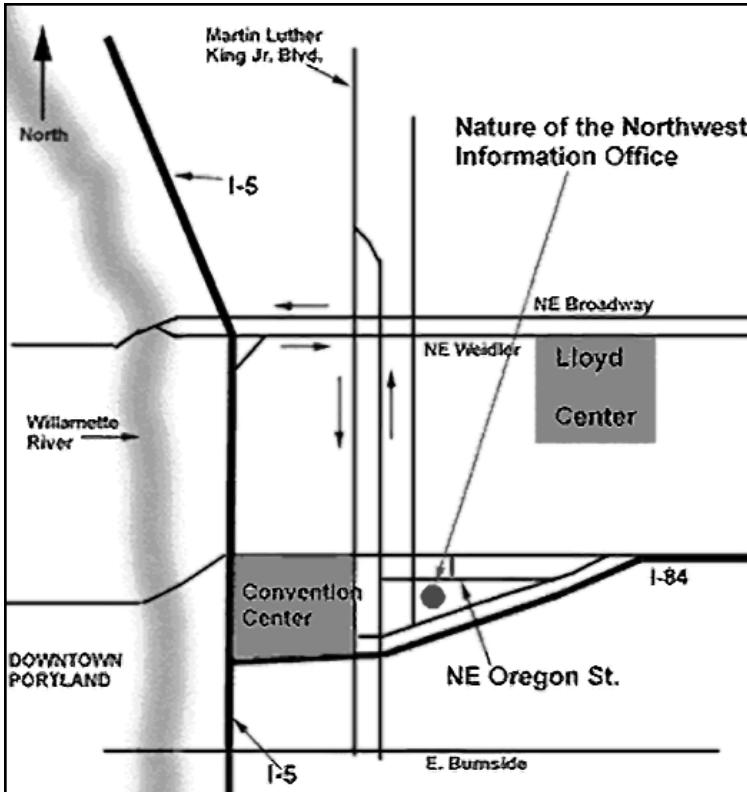
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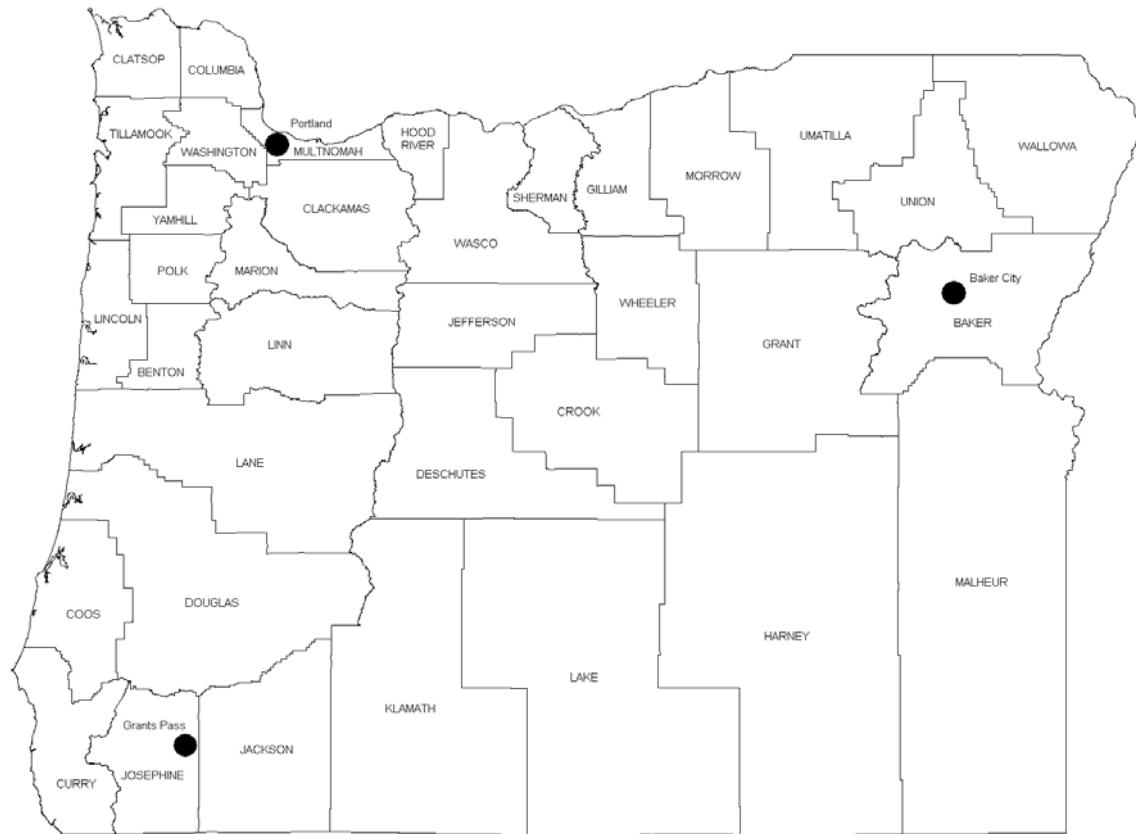
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