Bibliography of Hydrogeology for the Willamette Valley, Oregon

By D.S. Morgan and D.G. Weatherby

A contribution of the Regional Aquifer-System Analysis Program

U.S. GEOLOGICAL SURVEY
Open-File Report 91-473

Portland, Oregon
1992
## CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abstract</td>
<td>1</td>
</tr>
<tr>
<td>Introduction</td>
<td>1</td>
</tr>
<tr>
<td>References</td>
<td>4</td>
</tr>
<tr>
<td>Bibliography in alphabetical order by author (Part I)</td>
<td>5</td>
</tr>
<tr>
<td>Bibliography by subject and county (Part II)</td>
<td>51</td>
</tr>
<tr>
<td>Aquifer</td>
<td>51</td>
</tr>
<tr>
<td>Areal geology</td>
<td>51</td>
</tr>
<tr>
<td>Atmospheric precipitation</td>
<td>55</td>
</tr>
<tr>
<td>Benton County</td>
<td>56</td>
</tr>
<tr>
<td>Clackamas County</td>
<td>57</td>
</tr>
<tr>
<td>Clark County</td>
<td>59</td>
</tr>
<tr>
<td>Clatsop County</td>
<td>61</td>
</tr>
<tr>
<td>Columbia County</td>
<td>61</td>
</tr>
<tr>
<td>Columbia River basalt</td>
<td>62</td>
</tr>
<tr>
<td>Computer models</td>
<td>64</td>
</tr>
<tr>
<td>Earthquakes</td>
<td>64</td>
</tr>
<tr>
<td>Ecology</td>
<td>64</td>
</tr>
<tr>
<td>Economic geology</td>
<td>65</td>
</tr>
<tr>
<td>Engineering geology</td>
<td>66</td>
</tr>
<tr>
<td>Flood control</td>
<td>67</td>
</tr>
<tr>
<td>Flood deposits</td>
<td>69</td>
</tr>
<tr>
<td>Flood forecasting</td>
<td>69</td>
</tr>
<tr>
<td>Flow measurements</td>
<td>70</td>
</tr>
<tr>
<td>Geochemistry</td>
<td>70</td>
</tr>
<tr>
<td>Geologic hazards</td>
<td>71</td>
</tr>
<tr>
<td>Geologic maps</td>
<td>72</td>
</tr>
<tr>
<td>Benton County</td>
<td>73</td>
</tr>
<tr>
<td>Clackamas County</td>
<td>74</td>
</tr>
<tr>
<td>Clark County</td>
<td>74</td>
</tr>
<tr>
<td>Clatsop County</td>
<td>74</td>
</tr>
<tr>
<td>Columbia County</td>
<td>75</td>
</tr>
<tr>
<td>Lane County</td>
<td>75</td>
</tr>
<tr>
<td>Linn County</td>
<td>75</td>
</tr>
<tr>
<td>Marion County</td>
<td>76</td>
</tr>
<tr>
<td>Multnomah County</td>
<td>76</td>
</tr>
<tr>
<td>Polk County</td>
<td>77</td>
</tr>
<tr>
<td>Washington County</td>
<td>77</td>
</tr>
<tr>
<td>Yamhill County</td>
<td>77</td>
</tr>
<tr>
<td>Geomorphology</td>
<td>78</td>
</tr>
<tr>
<td>Geophysical profiles</td>
<td>79</td>
</tr>
<tr>
<td>Geophysical surveys</td>
<td>79</td>
</tr>
<tr>
<td>Glacial geology</td>
<td>82</td>
</tr>
<tr>
<td>Glaciology</td>
<td>82</td>
</tr>
<tr>
<td>Gravity surveys</td>
<td>82</td>
</tr>
<tr>
<td>Ground water</td>
<td>83</td>
</tr>
<tr>
<td>Ground-water aquifers</td>
<td>84</td>
</tr>
<tr>
<td>Ground-water data</td>
<td>84</td>
</tr>
<tr>
<td>Ground-water surveys</td>
<td>85</td>
</tr>
<tr>
<td>Ground-water quality</td>
<td>87</td>
</tr>
<tr>
<td>Hydrology</td>
<td>88</td>
</tr>
<tr>
<td>CONTENTS--Continued</td>
<td>Page</td>
</tr>
<tr>
<td>-----------------------------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Land use</td>
<td>88</td>
</tr>
<tr>
<td>Lane County</td>
<td>91</td>
</tr>
<tr>
<td>Linn County</td>
<td>93</td>
</tr>
<tr>
<td>Magnetic surveys</td>
<td>95</td>
</tr>
<tr>
<td>Marion County</td>
<td>96</td>
</tr>
<tr>
<td>Mathematical models</td>
<td>98</td>
</tr>
<tr>
<td>Mineral resources</td>
<td>99</td>
</tr>
<tr>
<td>Multnomah County</td>
<td>99</td>
</tr>
<tr>
<td>Paleontology</td>
<td>103</td>
</tr>
<tr>
<td>Percolation</td>
<td>103</td>
</tr>
<tr>
<td>Petrology</td>
<td>103</td>
</tr>
<tr>
<td>Polk County</td>
<td>104</td>
</tr>
<tr>
<td>Pollution</td>
<td>105</td>
</tr>
<tr>
<td>Pore water</td>
<td>106</td>
</tr>
<tr>
<td>Quaternary geology</td>
<td>106</td>
</tr>
<tr>
<td>Rainfall</td>
<td>107</td>
</tr>
<tr>
<td>Remote sensing</td>
<td>107</td>
</tr>
<tr>
<td>Rivers</td>
<td>107</td>
</tr>
<tr>
<td>Runoff</td>
<td>107</td>
</tr>
<tr>
<td>Sedimentology</td>
<td>108</td>
</tr>
<tr>
<td>Seepage</td>
<td>109</td>
</tr>
<tr>
<td>Seismology</td>
<td>110</td>
</tr>
<tr>
<td>Simulation analysis</td>
<td>110</td>
</tr>
<tr>
<td>Snow hydrology</td>
<td>110</td>
</tr>
<tr>
<td>Soil horizons</td>
<td>110</td>
</tr>
<tr>
<td>Soil moisture</td>
<td>110</td>
</tr>
<tr>
<td>Soils</td>
<td>110</td>
</tr>
<tr>
<td>Stratigraphy</td>
<td>112</td>
</tr>
<tr>
<td>Streamflow</td>
<td>116</td>
</tr>
<tr>
<td>Streams</td>
<td>116</td>
</tr>
<tr>
<td>Structural geology</td>
<td>116</td>
</tr>
<tr>
<td>Subsurface geology</td>
<td>118</td>
</tr>
<tr>
<td>Surface geology</td>
<td>118</td>
</tr>
<tr>
<td>Surface water</td>
<td>119</td>
</tr>
<tr>
<td>Surface-water data</td>
<td>121</td>
</tr>
<tr>
<td>Surface-water surveys</td>
<td>122</td>
</tr>
<tr>
<td>Surface-water quality</td>
<td>123</td>
</tr>
<tr>
<td>Tectonics</td>
<td>128</td>
</tr>
<tr>
<td>Tillamook County</td>
<td>129</td>
</tr>
<tr>
<td>Urban hydrology</td>
<td>129</td>
</tr>
<tr>
<td>Volcanology</td>
<td>130</td>
</tr>
<tr>
<td>Washington County</td>
<td>132</td>
</tr>
<tr>
<td>Water budget</td>
<td>132</td>
</tr>
<tr>
<td>Water conservation</td>
<td>132</td>
</tr>
<tr>
<td>Water quality</td>
<td>132</td>
</tr>
<tr>
<td>Clackamas County</td>
<td>133</td>
</tr>
<tr>
<td>Lane County</td>
<td>133</td>
</tr>
<tr>
<td>Linn County</td>
<td>133</td>
</tr>
<tr>
<td>Marion County</td>
<td>134</td>
</tr>
<tr>
<td>Multnomah County</td>
<td>134</td>
</tr>
</tbody>
</table>
CONTENTS--Continued

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water supply</td>
<td>135</td>
</tr>
<tr>
<td>Water use</td>
<td>135</td>
</tr>
<tr>
<td>Watersheds</td>
<td>137</td>
</tr>
<tr>
<td>Yamhill County</td>
<td>137</td>
</tr>
</tbody>
</table>

ILLUSTRATIONS

Figure 1. Map showing Willamette Valley part of the Puget-Willamette Lowland Regional Aquifer System Analysis study area 2
BIBLIOGRAPHY OF HYDROGEOLOGY FOR
THE WILLAMETTE VALLEY, OREGON

By D.S. Morgan and D.G. Weatherby

ABSTRACT

A bibliography containing about 550 references on the hydrogeology of the Willamette Valley was compiled as part of the Puget-Willamette Lowland Regional Aquifer System Analysis study. A separate bibliography was compiled for the Puget Lowland part of the study area. The report is organized into two parts: an author-alphabetized reference list, and a subject index with 81 topic and geographic keywords. Materials referenced include maps, reports, journal articles, theses, and dissertations.

INTRODUCTION

In 1989, the U.S. Geological Survey began a study to describe the ground-water flow systems of the Puget-Willamette Lowland (PWL) in Washington and Oregon. The study was initiated as part of the national Regional Aquifer System Analysis (RASA) program with the goals of

"...defining the regional hydrology and geology and establishing a framework of background information on the geology, hydrology and geochemistry of the aquifer system..." (Sun, 1986).

The PWL-RASA study area extends from southern British Columbia, Canada to west-central Oregon. The geology and hydrology of the northern part of the study area, the Puget-Lowland, differs considerably from that of the Willamette Valley in the southern part. Consequently, separate bibliographies were compiled for each part of the study area. Selected references for the Puget-Lowland were compiled by Jones (1991).

The purpose of this report is to present, for the Willamette Valley, Oregon (fig. 1), a bibliography of selected references in hydrology, geology, water quality and other water resource related fields. Because the hydrogeology of the Willamette Valley is related to that of the adjacent Coast and Cascade Ranges, the bibliography includes pertinent references for these provinces as well. The bibliography is not intended to be a complete list of references. The references included represent published and unpublished works considered by the authors to have particular significance or relevance to understanding the ground-water resources of the Willamette Valley.
Figure 1. -- Location map of the study area.
The bibliography contains about 550 references including reports, maps, journal articles, theses and dissertations. References were compiled by: (1) querying local, state and Federal agencies, consulting firms, and university libraries; (2) locating previously published bibliographies; and (3) searching bibliographic databases.

Each reference was indexed from a list of 68 subject keywords and 13 geographic (county) keywords. The report is organized into two parts. Part I is a list of complete bibliographic citations, alphabetized by author. Part II is a subject index to the references in which the reference number and title of each reference is listed by topic/geographic keyword. Numbers are used to cross reference Part I and II.
REFERENCES


103. Calligan, C. C., 1974, Computer Simulation of land use dynamics: In: Land and water use in Oregon; Seminar conducted by Oregon State University, Corvallis, Oregon, Oregon State University, Water Resources Research Center, p. 9-25.


114. Connard, G. Couch, R. W., and Gemperle, M., 1979, Regional tectonic and thermal model of the central Cascades, Oregon from magnetic data: Eos (American Geophysical Union, Transactions), v. 60, no. 46, p. 959.


140. Dunnette, D. A., 1979, A geographically variable water quality index used in Oregon: Journal of the Water Pollution Control Federation, v. 51, no. 1, p. 53-61.


322. Miller, P. R., and Orr, W. N., 1984, Geologic map of the Stayton NE quadrangle, Oregon: Oregon Department of Geology and Mineral Industries Map CMS-34, scale 1:24,000.


359. Orr, W. N., and Miller, P. R., 1986, Geologic map of the Drake Crossing quadrangle, Marion County, Oregon: Oregon Department of Geology and Mineral Industries GMS-50, scale 1:24,000.

360. Orr, W. N., and Miller, P. R., 1986, Geologic map of the Elk Prairie quadrangle, Marion and Clackamas Counties, Oregon: Oregon Department of Geology and Mineral Industries GMS-51, scale 1:24,000.


415. Scheidt, R. C., and Nichols, J. L., 1976, Physicochemical and biological characteristics of Hills Creek reservoir: Water Resources Research Institute WRRI 50, Corvallis, Oregon, Oregon State University, Department of Botany, 42 p.


437. Smith, M., 1975, Earthquake hazards of Clark County, Washington: Washington Department of Natural Resources, Division of Geology and Earth Resources Map 75-12, scale 1:59,055, 2 sheets.


<table>
<thead>
<tr>
<th>Citation</th>
</tr>
</thead>
</table>


480. Treasher, R. C., 1942, Geologic map of the Portland area, Oregon: Oregon Department of Geology and Mineral Industries Map M-42, scale 1:96,000, 1 sheet.


For other U.S. Army Corps of Engineers references, see numbers 24-31.


547. Yeats, R. S., Graven, E. P., and Werner, K. S., Bedrock geologic map of the Willamette Valley, Oregon (abstr.): Cordilleran section GSA, Abstracts with Programs in press.

BIBLIOGRAPHY BY SUBJECT AND COUNTY (PART II)

Aquifer

See Ground-Water

Areal Geology

3. The geomorphology and geology of the Willamette Valley as seen from I-5, Portland to Eugene.

9. Geology of the Sandy River Preserve.

7. Reconnaissance geology of limestone deposits in the Willamette Valley, Oregon.


13. Late Pleistocene sediments and floods in the Willamette Valley.


15. Reconnaissance geologic map of the Lebanon quadrangle, Oregon.

19. Geology of the Northwest quarter of the Brownsville quadrangle, Oregon.

32. The geology of the Windberry Creek area, Lane County, Oregon.

38. Early Tertiary sedimentary and tectonic history of the southern Coast Range, Oregon.

36. Geology of the Dallas and Valsetz 15-minute quadrangle, Polk County.


43. The geology of the central third of the Lyons quadrangle, Oregon.

52. Ground surfaces and soils in the Willamette Valley, Oregon.

63. The Columbia River Basalt Group in western Oregon: Geologic structures and other factors that controlled flow emplacement patterns.

61. Fault identification and structural evolution of the Portland area.

58. A model for the geologic history of Mount Tabor, Kelly Butte, and Powell Butte in southeast Portland.
Areal Geology--Continued

60. Portland environmental geology--Fault identification: Final technical report.

66. Geology of the Rickreall, Salem West, Monmouth, and Sidney 7 1/2’ quadrangles, Marion, Polk, and Linn Counties, Oregon.

68. Preliminary tectonic map of the greater Portland area.

74. Geologic map of the Crescent Mountain area, Linn County, Oregon.

89. The geology of the McMinnville quadrangle, Oregon.

91. Erosion potential assessment for the Willamette River basin, Oregon River-quality assessments.

94. Geologic map of the Grand Ronde quadrangle, Polk and Yamhill Counties, Oregon.

95. Preliminary geologic map of the Amity and Mission Bottom quadrangles, Oregon.

96. Preliminary geologic map of the McMinnville and Dayton quadrangles, Oregon.

93. Preliminary geologic map of the Ballston quadrangle.

98. Environmental geology of the Kellogg Creek-Mt. Scott Creek and lower Clackamas River drainage areas, northwestern Clackamas County, Oregon.

104. Geology of the southcentral margin of the Tillamook Highlands; southwest quarter of the Enright quadrangle, Tillamook County, Oregon.

110. Geology of the Breitenbush Hot Springs area, Cascade Range, Oregon.

113. Preliminary investigation of lithological characteristics of the Troutdale Formation in Camas, Sandy, Washoughal, and Bridal Veil quadrangles.

150. Compilation of a reconnaissance surface geologic map of Oregon underlain by Columbia River Basalt.

153. The Geology of the Lebanon Quadrangle.

172. Miocene basalts from the western Cascade Range and the Willamette Valley.

184. Geologic history of the Portland region.

186. Gravel deposits in the Willamette Valley between Salem and Oregon City, Oregon.
Areal Geology--Continued

187. Late Quaternary sedimentation and geologic history of the north Willamette Valley, Oregon.

191. A geological field trip guide from Sweet Home, Oregon, to the Quartzville mining district.

192. Overview of the Bohemia mining district.

202. The geology of the northern third of the Lyons quadrangle, Oregon.

209. Preliminary report on the reconnaissance geology of the Upper Clackamas and North Santiam Rivers area, Cascade Range, Oregon.


216. Preliminary report on the geology of the Molalla quadrangle, Oregon.

228. Geology of the southwest quarter of the Brownsville quadrangle, Oregon.

229. Welded tuff along the Row River, western Oregon.

234. Geology, geomorphology and dynamics of mass movement in the middle Santiam River drainage, Western Cascades, Oregon.

236. Geology of the lower Columbia River.

260. Geologic map of the Mount Hood Wilderness, Clackamas and Hood River Counties, Oregon.


281. Field guide to the geology of Corvallis and vicinity, Oregon.

283. The petrology and stratigraphy of the Portland Hills Silt -- A Pacific Northwest Loess.

290. Late Cenozoic geology of the lower Columbia River Valley, Oregon and Washington.

295. The geology of the Halsey quadrangle, Oregon.

296. Geology of the southern third of the Marcola quadrangle, Oregon.


320. Geologic map of the Wilhoit quadrangle, Oregon.
Areal Geology--Continued

321. Geologic map of the Scotts Mills quadrangle, Oregon.

322. Geologic map of the Stayton NE quadrangle, Oregon.

332. Geology of the Salem Quadrangle, Oregon.

339. Geology of the Tillamook Head; Nicanicum Junction area, Clatsop County, Northwest Oregon.

348. Geology of the Stayton quadrangle, Oregon.

359. Geologic map of the Drake Crossing quadrangle, Marion County, Oregon.

360. Geologic map of the Elk Prairie quadrangle, Marion and Clackamas Counties, Oregon.

368. Geology of the central and northern parts of the western Cascade Range in Oregon.


387. Geologic map of the Breitenbush River area, Linn and Marion Counties, Oregon.

386. Geologic map of the McKenzie Bridge quadrangle, Lane County, Oregon.

419. The occurrence of Spencer Sandstone in the Yamhill Quadrangle, Oregon.

421. Reconnaissance geologic map of the Marcola, Leaburg, and Lowell quadrangles, Oregon.

427. The geology of the southwestern part of the Valstez quadrangle, Oregon.

429. Index to published geologic mapping in Oregon, 1898-1979


470. Field geology of S.W. Broken Top quadrangle, Oregon.

471. Geologic map of the Three Sisters Wilderness, Deschutes, Lane, and Linn Counties, Oregon.

473. Geology of the Salem Hills and the North Santiam River basin, Oregon.

479. Geologic history of the Portland area.

481. Geology of the Portland quadrangle, Oregon-Washington.
Areal Geology--Continued

482. Geology of Portland, Oregon and adjacent areas: A study of Tertiary and Quaternary deposits, lateritic weathering profiles, and of Quaternary history of part of the Pacific Northwest.

509. Geology of the southern and southwestern border area of the Willamette Valley, Oregon.

508. Geology of the west central border area of the Willamette Valley, Oregon.

513. Geologic map of the Salem one degree by two degree sheet.

514. Geologic map of Washington--southwest quadrant.

515. Geology of northwestern Oregon west of Willamette River and north of latitude 45 degrees, 15 minutes.

519. Geologic map of Oregon west of the 121st meridian.

520. Preliminary geologic map of the west half of the Vancouver (Wa.-Ore.) 1 degrees X 2 degrees Quadrangle, Oregon.

528. Geology of the St. Helens quadrangle, Oregon.

547. Bedrock geologic map of the Willamette Valley, Oregon (abstr.).

Atmospheric Precipitation

16. Runoff synthesis for rain-on-snow basins.

73. Water quantity and quality studies of Vancouver Lake, Washington.

91. Erosion potential assessment for the Willamette River basin, Oregon River-quality assessments.

109. Seasonal precipitation forecasting with a 6-7 month lead time in the Pacific Northwest using an information theoretic model.

204. Perched water tables on hillsides in western Oregon: I. Some factors affecting their development and longevity.

217. Some characteristics and consequences of snowmelt during rainfall in western Oregon.


269. Storm runoff as related to urbanization in the Portland, Oregon-Vancouver, Washington.

270. Storm runoff as related to urbanization based on data collected in Salem, and Portland, and generalized for the Willamette Valley, Oregon.
289. Overland flow from sloping land: Effects of perched water tables and subsurface drains.

355. Oregon's long-range requirements for water: General soil map report with irrigable areas, Willamette Drainage Basin.

431. Surface water records and precipitation records of Oregon; 1978 water year.


**Benton County**


65. Geologic hazards of eastern Benton County, Oregon.

71. Long-term patterns of sediment production following road construction and logging in the Oregon Coast Range.

72. Sediment and organic matter transport in Oregon Coast Range streams.

85. Aeromagnetic map of Albany-Newport area, Oregon and its geologic interpretation.

128. Stratigraphic and petrologic analysis of trends within the Spencer Formation sandstones from Corvallis, Benton County, to Henry Hagg Lake...

160. Ground water in the Corvallis-Albany area, central Willamette Valley, Oregon.

165. Ground-water data in the Corvallis-Albany area, central Willamette Valley, Oregon.

189. Ground water resources of the Dallas-Monmouth area, Polk, Benton, and Marion Counties, Oregon.

267. Soil survey of the Benton County area, Oregon.

281. Field guide to the geology of Corvallis and vicinity, Oregon.

341. The geomagnetic coast effect in the pacific northwest of North America.

424. Rock material resources of Benton County, Oregon.

492. Land use and land cover and associated maps for Salem (W 1/2) Oregon.
Benton County—Continued

508. Geology of the west central border area of the Willamette Valley, Oregon.

510. Results of a magnetotelluric traverse across western Oregon; crustal resistivity structure and the subduction of the Juan de Fuca Plate.

548. Surface eroded non-point source pollutants entering selected upper Willamette River tributaries from agricultural lands.

Clackamas County

9. Geology of the Sandy River Preserve.

17. The stratigraphy and structure of the Columbia River Basalt in the Clackamas River drainage.


37. The origin of Oswego Lake valley and Oswego Lake.


64. Geologic map of the Lake Oswego quadrangle, Clackamas, Multnomah, and Washington Counties, Oregon.


92. A synoptic approach for analyzing erosion as a guide to land-use planning.

98. Environmental geology of the Kellogg Creek-Mt. Scott Creek and lower Clackamas River drainage areas, northwestern Clackamas County, Oregon.

101. The stratigraphy and structure of the Columbia River Basalt Group in the Salmon River area, Oregon.

105. Post-glacial lahars of the Sandy River basin, Mount Hood, Oregon.

113. Preliminary investigation of lithological characteristics of the Troutdale Formation in Camas, Sandy, Washougal, and Bridal Veil quadrangles.

122. Free-air gravity anomaly; northern Oregon Cascades.
120. Gravity measurements in the area of Mount Hood, Oregon; Geothermal resource assessment of Mount Hood.

146. Johnson Creek water-quality assessment.


183. Soil survey of Clackamas County area, Oregon.

186. Gravel deposits in the Willamette Valley between Salem and Oregon City, Oregon.

190. Ground-water resources in the Hood Basin, Oregon.

209. Preliminary report on the reconnaissance geology of the Upper Clackamas and North Santiam Rivers area, Cascade Range, Oregon.


255. Volcanic stratigraphy and alteration mineralogy of drill cuttings from EWEB 4 drill hole, Clackamas County, Oregon.

256. Volcanic stratigraphy and alteration mineralogy of drill cuttings from EWEB 3 drill hole, Clackamas County, Oregon.

282. Appraisal of waterpower potential and land classifications, Clackamas River basin, Oregon.

284. Availability of ground water in the northern part of Clackamas County, Oregon.

285. Ground water in the northern part of Clackamas County, Oregon.


323. Mid-Tertiary transgressive rocky coast sedimentation; central western Cascade Range, Oregon.

351. Geophysical logs, Old Maid Flat 1, Clackamas County, Oregon.


360. Geologic map of the Elk Prairie quadrangle, Marion and Clackamas Counties, Oregon.

358. Mid Tertiary stratigraphy of the Oregon western Cascades.
Clackamas County--Continued

363. Urban environmental geology and planning, Portland, Oregon.


380. Structure and stratigraphy of a portion of the Fish Creek Mountain 15' quadrangle, Clackamas County, Oregon.

382. Geology and water resources in the French Prairie area, northern Willamette Valley, Oregon.

381. Records of wells, water levels, and chemical quality of the ground water in the French Prairie - Mission Bottom area, northern Willamette Valley, Oregon.

423. Geology and geological hazards of northwestern Clackamas County, Oregon.

426. Geological analysis of the Portland Hills-Clackamas River alignment, Oregon.

425. Geophysical and geological analysis of a fault-like linearity in the lower Clackamas River area, Clackamas County, Oregon.

428. The quantification of soil mass movements and their relationship to bedrock geology in the Bull Run Watershed, Multnomah and Clackamas Counties, Oregon.


480. Geologic map of the Portland area, Oregon.

494. Land use and land cover and associated maps for Vancouver, Oregon, Washington.

496. Land use and land cover, 1974-75, Oregon City, Oregon.

505. Geological linears of the northern part of the Cascade Range, Oregon.

507. The stratigraphy and structure of the Columbia River Basalt Group in the Bull Run Watershed, Multnomah and Clackamas Counties, Oregon.

543. Aeromagnetic and bouguer gravity maps of the Mount Hood Wilderness, Clackamas and Hood River Counties, Oregon.

Clark County

44. Development of postglacial vegetation and climate in southwestern Washington; character and timing of rapid environmental and climatic changes.
Clark County--Continued

45. Late Quaternary vegetation near Battle Ground Lake, southern Puget Trough, Washington.


73. Water quantity and quality studies of Vancouver Lake, Washington.

106. Ground-water management and development plan: Report prepared for Clark County Public Utility District.


142. The quality of water in the principal aquifers of southwestern Washington.

143. Geology and ground-water resources in the vicinity of the Columbia River and Interstate 5, Clark County, Washington; No. 4.

144. Geology and ground-water resources in the vicinity of the Columbia River and Interstate 5, Clark County, Washington; No. 3.

145. Geology and ground-water resources in the vicinity of the Columbia River and Interstate 5, Clark County, Washington; No. 2.


174. Analyses of elutriates, native water, and bottom material in selected rivers and estuaries in western Oregon and Washington.


252. Late-Quaternary sediments at Battle Ground Lake, southern Puget Trough, Washington.

263. Some effects of the May 18 eruption of Mount St. Helens on river-water quality; The 1980 eruptions of Mount St. Helens, Washington.
Clark County--Continued


269. Storm runoff as related to urbanization in the Portland, Oregon-Vancouver, Washington.

299. Volcaniclastic sedimentation in the Lewis River valley, Mount St. Helens, Washington; processes, extent, and hazards.


347. City of Vancouver ground water source and use study, Volume I - Summary.


435. Geophysical investigations of Washington's ground water resources; final report 1972/73.

437. Earthquake hazards of Clark County, Washington.

500. Aeromagnetic map of parts of the Cascade Range, southwestern Washington and northern Oregon.

494. Land use and land cover and associated maps for Vancouver, Oregon, Washington.

514. Geologic map of Washington--southwest quadrant.

520. Preliminary geologic map of the west half of the Vancouver (Wa.-Ore.) 1 degrees X 2 degrees Quadrangle, Oregon.

524. Analyses of trace metals associated with bottom material and biological communities in Salmon Creek basin, Clark County, Washington.

Clatsop County

339. Geology of the Tillamook Head; Necanicum Junction area, Clatsop County, Northwest Oregon.

Columbia County

18. Pomona Member of the Columbia River Basalt Group; an intracanyon flow in the Columbia River Gorge, Oregon.

Columbia County--Continued

97. Mist gas field, Columbia County, Oregon.

132. A revision of upper Eocene and lower Oligocene stratigraphy in the upper Nehalem River basin, northwest Oregon.

199. Geophysical study of north Scappoose Creek, Alder Creek, Clatskanie River Linement along the trend of the Portland Hills Fault, Columbia County, Oregon.

243. Geologic hazards review; Trojan nuclear power plant site, Columbia County, Oregon.


261. Stratigraphy, lithofacies, and environment of deposition of the Scappoose Formation in central Columbia County, Oregon.

290. Late Cenozoic geology of the lower Columbia River Valley, Oregon and Washington.

311. Subsurface biostratigraphy of the east Nehalem Basin, Columbia County, Oregon.

336. Upper Eocene stratigraphy of the upper Nehalem River basin.

346. Subsurface correlations in the Mist area, Columbia County, Oregon.


438. Soil survey of Columbia County, Oregon.

459. The Pittsburg Bluff Formation.


503. Nonmarine lithofacies included in Scappoose Formation, Northwest Oregon.

504. Scappoose Formation, Columbia County, Oregon; new evidence of age and relation to Columbia River Basalt Group.

528. Geology of the St. Helens quadrangle, Oregon.

Columbia River Basalt

2. The structure and stratigraphy of the Columbia River Basalt in the Chehalem Mountains, Oregon.

18. Pomona Member of the Columbia River Basalt Group; an intracanyon flow in the Columbia River Gorge, Oregon.
Columbia River Basalt--Continued

17. The stratigraphy and structure of the Columbia River Basalt in the Clackamas River drainage.

57. Columbia River Basalt Group stratigraphy in western Oregon.

63. The Columbia River Basalt Group in western Oregon: Geologic structures and other factors that controlled flow emplacement patterns.

59. Regional correlations within the Frenchman Springs Member of the Columbia River Basalt Group: New insights into the Middle Miocene tectonics of northwestern Oregon.


101. The stratigraphy and structure of the Columbia River Basalt Group in the Salmon River area, Oregon.

150. Compilation of a reconnaissance surface geologic map of Oregon underlain by Columbia River Basalt.

172. Miocene basalts from the western Cascade Range and the Willamette Valley.

175. Structural features in the Columbia River Basalt.

209. Preliminary report on the reconnaissance geology of the Upper Clackamas and North Santiam Rivers area, Cascade Range, Oregon.


287. Structures, textures, and cooling histories of Columbia River Basalt flows.


334. Tectonic and paleoenvironmental significance and magnetic-geochemical stratigraphy of the Columbia River Basalt at the middle Miocene shoreline, northwestern Oregon Coast Range.

336. Upper Eocene stratigraphy of the upper Nehalem River basin.

344. Quality of ground water in basalt of the Columbia River Group, Washington, Oregon, and Idaho.

342. Storage of ground water behind subsurface dams in the Columbia River basalt, Washington, Oregon, and Idaho.
Columbia River Basalt--Continued

343. Tectonic structure of the main part of the basalt of the Columbia River Group Washington, Oregon, and Idaho.


461. Revisions in the stratigraphic nomenclature of the Columbia River Basalt Group.

477. Intercanyon flows of the Columbia River Basalt Group in the lower Columbia River Gorge and their relationships to the Troutdale Formation.

476. The stratigraphic relationships of the Columbia River Basalt Group in the lower Columbia River Gorge of Oregon and Washington.

503. Nonmarine lithofacies included in Scappoose Formation, Northwest Oregon.

504. Scappoose Formation, Columbia County, Oregon; new evidence of age and relation to Columbia River Basalt Group.

507. The stratigraphy and structure of the Columbia River Basalt Group in the Bull Run Watershed, Multnomah and Clackamas Counties, Oregon.

Computer Models

See Mathematical Models

Earthquakes

See Geologic Hazards; Seismology

Ecology

34. Explore-I: A River basin water quality model.

44. Development of postglacial vegetation and climate in southwestern Washington; character and timing of rapid environmental and climatic changes.

45. Late Quaternary vegetation near Battle Ground Lake, southern Puget Trough, Washington.

54. Environmental Geology of Western Linn County, Oregon.


214. The effects of two multipurpose reservoirs on the water temperature of the McKenzie River, Oregon.
Ecology--Continued

241. Longitudinal changes in fish assemblages and water quality in the Willamette River, Oregon.

271. Preliminary study using digital modeling techniques to understand and predict the temperature regime in a stream below a major reservoir--The North Santiam River below Detroit Dam, Oregon.

303. Evaluation of selected one-dimensional stream water-quality models with field data.

370. Algal growth potential--lower Willamette River, Oregon.

400. Algal conditions and the potential for future algal problems in the Willamette River, Oregon.

409. Water quality and the migration of fall salmon in the lower Willamette River.

410. Water quality: Western Fish Toxicology Station and western Oregon rivers.

527. Correspondence between ecoregions and spatial patterns in stream ecosystems in Oregon.

537. Willamette Basin comprehensive study of water and related land resources: Appendix D--Fish and Wildlife.

Economic Geology


97. Mist gas field, Columbia County, Oregon.

114. Regional tectonic and thermal model of the central Cascades, Oregon from magnetic data.

120. Gravity measurements in the area of Mount Hood, Oregon; Geothermal resource assessment of Mount Hood.

135. Hydrothermal alteration and mineralization at the Blackbutte mercury mine, Lane County, Oregon.


189. Ground water resources of the Dallas-Monmouth area, Polk, Benton, and Marion Counties, Oregon.

191. A geological field trip guide from Sweet Home, Oregon, to the Quartzville mining district.

193. Mineral potential of the Fall Creek mining district; a geological-geochemical survey.

65
192. Overview of the Bohemia mining district.

227. Principal facts for a gravity survey of Breitenbush known geothermal resource area, Oregon.


255. Volcanic stratigraphy and alteration mineralogy of drill cuttings from EWEB 4 drill hole, Clackamas County, Oregon.

256. Volcanic stratigraphy and alteration mineralogy of drill cuttings from EWEB 3 drill hole, Clackamas County, Oregon.

257. Volcanic stratigraphy and alteration mineralogy of drill cuttings from EWEB 2 drill hole, Linn County, Oregon.

258. Volcanic stratigraphy and alteration mineralogy of drill cuttings from EWEB 1 drill hole, Linn County, Oregon.

282. Appraisal of waterpower potential and land classifications, Clackamas River basin, Oregon.


346. Subsurface correlations in the Mist area, Columbia County, Oregon.

351. Geophysical logs, Old Maid Flat 1, Clackamas County, Oregon.

424. Rock material resources of Benton County, Oregon.

443. Appraisal of waterpower and reservoir sites, Nestucca River basin, Oregon.

512. Mineral resource potential of the middle Santiam Roadless Area, Linn County, Oregon.

**Engineering Geology**

65. Geologic hazards of eastern Benton County, Oregon.

71. Long-term patterns of sediment production following road construction and logging in the Oregon Coast Range.


211. A preliminary geological investigation of the ground effects of earthquakes in the Portland metropolitan area, Oregon.
Engineering Geology--Continued

217. Some characteristics and consequences of snowmelt during rainfall in western Oregon.

218. Water input-movement relations for an earthflow, western Cascades, Oregon.

243. Geologic hazards review; Trojan nuclear power plant site, Columbia County, Oregon.

266. Streambank erosion protection and channel scour manipulation using rockfill dikes and gabions.

265. Willamette River sediment management possibilities: Phase I -- Problem clarification.

280. Turbidity-induced meromixis in an Oregon reservoir; hypothesis.

318. Erosional problems related to land-use activities in the Willamette River basin, Oregon.

422. Engineering geology of the Tualatin Valley region, Oregon.

423. Geology and geological hazards of northwestern Clackamas County, Oregon.

428. The quantification of soil mass movements and their relationship to bedrock geology in the Bull Run Watershed, Multnomah and Clackamas Counties, Oregon.

437. Earthquake hazards of Clark County, Washington.

441. The OMSI-Zoo landslide.

443. Appraisal of waterpower and reservoir sites, Nestucca River basin, Oregon.

462. Complex mass-movement terrains in the western Cascade Range, Oregon.

468. Relationships of clay mineralogy to landscape stability in western Oregon.

Flood Control

24. Flood plain information: Willamette River and Tributaries in Marion and Polk Counties, Oregon.


Flood Control--Continued

27. Flood plain information: Willamette River, Chehalem Creek, Newberg, Oregon.


31. Flood plain information: South Santiam River, Lebanon, Oregon.

83. Flood runoff in the Willamette Valley, Oregon.

98. Environmental geology of the Kellogg Creek-Mt. Scott Creek and lower Clackamas River drainage areas, northwestern Clackamas County, Oregon.

107. Potential flood damages, Willamette River system, Section II.

108. Potential flood Damages, Willamette River system, Section I.

133. People and water.

221. Floods of January 10-23, 1972, in western Oregon.

223. Magnitude and frequency of floods in western Oregon.

220. Willamette River at Lambert Bend, Oregon: Floodflow characteristics of the proposed Greenacres Road crossing.

389. The Willamette River, flood control or flood management.

450. Ash Creek watershed, Polk County, preliminary investigation.

453. Ash Creek RC & D measure work plan for flood prevention.

454. Ash Creek RC & D project, Polk County, Oregon; environmental assessment.

486. Flood hazard analysis, Hendricks Bridge to Leaburg Dam on the McKenzie River, Lane County, Oregon.

485. Flood-plain study of the Seavy Loop area, Coast Fork, Willamette River, Lane County, Oregon.

517. Land and water use in Oregon.

535. Willamette Basin comprehensive study of water and related land resources: Appendix E--Flood Control.
Flood Deposits

5. Late Pleistocene sediments and floods in the Willamette Valley.

14. Late Pleistocene sediments and floods in the Willamette Valley.

292. Influence of landslides, floods, and land use on channel changes of the upper Middle Fork Willamette River, Oregon.

293. Land use, floods, and channel changes: upper Middle Fork Willamette River, Oregon (1936-1980).

511. Case for periodic, colossal jokulhlaups from Pleistocene glacial Lake Missoula.

535. Willamette Basin comprehensive study of water and related land resources: Appendix E--Flood Control.

Flood Forecasting

24. Flood plain information: Willamette River and Tributaries in Marion and Polk Counties, Oregon.


27. Flood plain information: Willamette River, Chehalem Creek, Newberg, Oregon.


31. Flood plain information: South Santiam River, Lebanon, Oregon.

65. Geologic hazards of eastern Benton County, Oregon.

107. Potential flood damages, Willamette River system, Section II.

108. Potential flood damages, Willamette River system, Section I.

168. Flood profiles in the Calapooya Creek basin, Oregon.

223. Magnitude and frequency of floods in western Oregon.

220. Willamette River at Lambert Bend, Oregon: Floodflow characteristics of the proposed Greenacres Road crossing.

389. The Willamette River, flood control or flood management.

451. Regionalized flood frequency data for Oregon.
Flood Forecasting--Continued

478. Watershed and climate influences on flood frequency distributions in the Willamette River basin.

486. Flood hazard analysis, Hendricks Bridge to Leaburg Dam on the McKenzie River, Lane County, Oregon.

485. Flood-plain study of the Seavy Loop area, Coast Fork, Willamette River, Lane County, Oregon.

535. Willamette Basin comprehensive study of water and related land resources: Appendix E--Flood Control.

Flow Measurements

See Surface Water-Data; Ground Water-Data

Geochemistry

111. Water-quality data for Smith and Bybee lakes, Portland, Oregon, June to November, 1982

189. Ground water resources of the Dallas-Monmouth area, Polk, Benton, and Marion Counties, Oregon

193. Mineral potential of the Fall Creek mining district; a geological-geochemical survey.

242. Geochemistry, petrogenesis, and tectonic implications of central High Cascade mafic platform lavas.


259. Geochemical map of the Mount Hood Wilderness, Clackamas and Hood River Counties, Oregon.

334. Tectonic and paleoenvironmental significance and magnetic-geochemical stratigraphy of the Columbia River Basalt at the middle Miocene shoreline, northwestern Oregon Coast Range.

463. A stratigraphic-geochemical study of the Troutdale Formation and Sandy River Mudstone in the Portland Basin and lower Columbia River Gorge.

503. Nonmarine lithofacies included in Scappoose Formation, Northwest Oregon.

512. Mineral resource potential of the middle Santiam Roadless Area, Linn County, Oregon.
Geochemistry--Continued

524. Analyses of trace metals associated with bottom material and biological communities in Salmon Creek basin, Clark County, Washington.

525. Geology and geochemistry of volcanic rocks in the Detroit area, western Cascade Range, Oregon.

Geologic Hazards

40. Evidence for the Portland Hills fault.


55. Geologic hazards of parts of northern Hood River, Wasco, and Sherman Counties, Oregon.

60. Portland environmental geology--Fault identification: Final technical report.

65. Geologic hazards of eastern Benton County, Oregon.

98. Environmental geology of the Kellogg Creek-Mt. Scott Creek and lower Clackamas River drainage areas, northwestern Clackamas County, Oregon.

107. Potential flood damages, Willamette River system, Section II

108. Potential flood Damages, Willamette River system, Section I.

126. Recent eruptive history of Mount Hood, Oregon, and potential hazards from future eruptions.


207. Introductory report on project PEG, Portland Environmental Geology.

211. A preliminary geological investigation of the ground effects of earthquakes in the Portland metropolitan area, Oregon.

217. Some characteristics and consequences of snowmelt during rainfall in western Oregon.

243. Geologic hazards review; Trojan nuclear power plant site, Columbia County, Oregon.
Geologic Hazards--Continued

292. Influence of landslides, floods, and land use on channel changes of the upper Middle Fork Willamette River, Oregon.

293. Land use, floods, and channel changes: upper Middle Fork Willamette River, Oregon (1936-1980).

299. Volcaniclastic sedimentation in the Lewis River valley, Mount St. Helens, Washington; processes, extent, and hazards.


389. The Willamette River, flood control or flood management.

420. Geologic restraints to development in selected areas of Marion County, Oregon.

423. Geology and geological hazards of northwestern Clackamas County, Oregon.

437. Earthquake hazards of Clark County, Washington.

441. The OMSI-Zoo landslide.

460. Earthquake and landslide on the Columbia.

462. Complex mass-movement terrains in the western Cascade Range, Oregon.

478. Watershed and climate influences on flood frequency distributions in the Willamette River basin.

486. Flood hazard analysis, Hendricks Bridge to Leaburg Dam on the McKenzie River, Lane County, Oregon.

Geologic Maps

43. The geology of the central third of the Lyons quadrangle, Oregon.

55. Geologic hazards of parts of northern Hood River, Wasco, and Sherman Counties, Oregon.

123. Free-air gravity anomaly map and complete Bouguer gravity anomaly map, Cascade Mountain Range, northern Oregon.

117. Geophysical mapping of the central Cascades.

124. Residual gravity maps of the northern, central, and southern Cascade Range, Oregon.

119. Total field aeromagnetic anomaly map, Cascade Mountain Range, central Oregon.
Geologic Maps--Continued

121. Total field aeromagnetic anomaly maps; Cascade Range, northern Oregon.

150. Compilation of a reconnaissance surface geologic map of Oregon underlain by Columbia River Basalt.

244. Total field aeromagnetic anomaly map, Cascade Mountain Range, central Oregon.


352. Heat-flow map of the Cascade Range of Oregon and index map of mapping in the Oregon Cascades.

349. Oregon gravity maps.

355. Oregon's long-range requirements for water: General soil map report with irrigable areas, Willamette Drainage Basin.

364. Quaternary soils and geomorphology, Willamette Valley.

367. Geologic map of Oregon.

368. Geology of the central and northern parts of the western Cascade Range in Oregon.


418. Bibliography of theses on Oregon Geology.

429. Index to published geologic mapping in Oregon, 1898-1979.


519. Geologic map of Oregon west of the 121st meridian

547. Bedrock geologic map of the Willamette Valley, Oregon (abstr.)

Geologic Maps: Benton County

65. Geologic hazards of eastern Benton County, Oregon.

281. Field guide to the geology of Corvallis and vicinity, Oregon.
424. Rock material resources of Benton County, Oregon.

508. Geology of the west central border area of the Willamette Valley, Oregon.

Geologic Maps: Clackamas County

64. Geologic map of the Lake Oswego quadrangle, Clackamas, Multnomah, and Washington Counties, Oregon.

122. Free-air gravity anomaly; northern Oregon Cascades

120. Gravity measurements in the area of Mount Hood, Oregon; Geothermal resource assessment of Mount Hood.

259. Geochemical map of the Mount Hood Wilderness, Clackamas and Hood River Counties, Oregon.

260. Geologic map of the Mount Hood Wilderness, Clackamas and Hood River Counties, Oregon.

360. Geologic map of the Elk Prairie quadrangle, Marion and Clackamas Counties, Oregon.

363. Urban environmental geology and planning, Portland, Oregon.

423. Geology and geological hazards of northwestern Clackamas County, Oregon.

480. Geologic map of the Portland area, Oregon.

543. Aeromagnetic and bouguer gravity maps of the Mount Hood Wilderness, Clackamas and Hood River Counties, Oregon.

Geologic Maps: Clark County


514. Geologic map of Washington--southwest quadrant.

520. Preliminary geologic map of the west half of the Vancouver (Wa.-Ore.) 1 degrees X 2 degrees Quadrangle, Oregon.

Geologic Maps: Clatsop County

339. Geology of the Tillamook Head; Neeanicum Junction area, Clatsop County, Northwest Oregon.
Geologic Maps: Columbia County


528. Geology of the St. Helens quadrangle, Oregon

Geologic Maps: Lane County

32. The geology of the Windberry Creek area, Lane County, Oregon.

122. Free-air gravity anomaly; northern Oregon Cascades.

296. Geology of the southern third of the Marcola quadrangle, Oregon.

386. Geologic map of the McKenzie Bridge quadrangle, Lane County, Oregon.

421. Reconnaissance geologic map of the Marcola, Leaburg, and Lowell quadrangles, Oregon.

471. Geologic map of the Three Sisters Wilderness, Deschutes, Lane, and Linn Counties, Oregon.


509. Geology of the southern and southwestern border area of the Willamette Valley, Oregon.

Geologic Maps: Linn County

15. Reconnaissance geologic map of the Lebanon quadrangle, Oregon.

19. Geology of the Northwest quarter of the Brownsville quadrangle, Oregon.

66. Geology of the Rickreall, Salem West, Monmouth, and Sidney 7 1/2' quadrangles, Marion, Polk, and Linn Counties, Oregon.

74. Geologic map of the Crescent Mountain area, Linn County, Oregon.

86. Geologic interpretation of the aeromagnetic map of the Lebanon quadrangle, Linn and Marion Counties, Oregon.

122. Free-air gravity anomaly; northern Oregon Cascades.

153. The Geology of the Lebanon Quadrangle.

228. Geology of the southwest quarter of the Brownsville quadrangle, Oregon.

295. The geology of the Halsey quadrangle, Oregon.
Geologic Maps: Linn County--Continued

387. Geologic map of the Breitenbush River area, Linn and Marion Counties, Oregon.

471. Geologic map of the Three Sisters Wilderness, Deschutes, Lane, and Linn Counties, Oregon.

501. Aeromagnetic map of west-central Oregon

Geologic Maps: Marion County

66. Geology of the Rickreall, Salem West, Monmouth, and Sidney 7 1/2' quadrangles, Marion, Polk, and Linn Counties, Oregon.

86. Geologic interpretation of the aeromagnetic map of the Lebanon quadrangle, Linn and Marion Counties, Oregon.

122. Free-air gravity anomaly; northern Oregon Cascades.

202. The geology of the northern third of the Lyons quadrangle, Oregon.

320. Geologic map of the Wilhoit quadrangle, Oregon.

321. Geologic map of the Scotts Mills quadrangle, Oregon.

322. Geologic map of the Stayton NE quadrangle, Oregon.

322. Geology of the Salem Quadrangle, Oregon.

348. Geology of the Stayton quadrangle, Oregon.

359. Geologic map of the Drake Crossing quadrangle, Marion County, Oregon

360. Geologic map of the Elk Prairie quadrangle, Marion and Clackamas Counties, Oregon.

387. Geologic map of the Breitenbush River area, Linn and Marion Counties, Oregon.

513. Geologic map of the Salem one degree by two degree sheet.

Geologic Maps: Multnomah County

64. Geologic map of the Lake Oswego quadrangle, Clackamas, Multnomah, and Washington Counties, Oregon.

68. Preliminary tectonic map of the greater Portland area.

363. Urban environmental geology and planning, Portland, Oregon.

Geologic Maps: Multnomah County--Continued

480. Geologic map of the Portland area, Oregon.

481. Geology of the Portland quadrangle, Oregon-Washington.

Geologic Maps: Polk County

36. Geology of the Dallas and Valsetz 15-minute quadrangle, Polk County.

66. Geology of the Rickreall, Salem West, Monmouth, and Sidney 7 1/2' quadrangles, Marion, Polk, and Linn Counties, Oregon.

94. Geologic map of the Grand Ronde quadrangle, Polk and Yamhill Counties, Oregon.

93. Preliminary geologic map of the Ballston quadrangle.

427. The geology of the southwestern part of the Valsetz quadrangle, Oregon.

508. Geology of the west central border area of the Willamette Valley, Oregon.

513. Geologic map of the Salem one degree by two degree sheet.

Geologic Maps: Washington County

64. Geologic map of the Lake Oswego quadrangle, Clackamas, Multnomah, and Washington Counties, Oregon.


515. Geology of northwestern Oregon west of Willamette River and north of latitude 45 degrees, 15 minutes.

Geologic Maps: Yamhill County


89. The geology of the McMinnville quadrangle, Oregon.

94. Geologic map of the Grand Ronde quadrangle, Polk and Yamhill Counties, Oregon.

95. Preliminary geologic map of the Amity and Mission Bottom quadrangles, Oregon.

96. Preliminary geologic map of the McMinnville and Dayton quadrangles, Oregon.

93. Preliminary geologic map of the Ballston quadrangle.
Geologic Maps: Yamhill County--Continued

513. Geologic map of the Salem one degree by two degree sheet.

515. Geology of northwestern Oregon west of Willamette River and north of latitude 45 degrees, 15 minutes.

Geomorphology

3. The geomorphology and geology of the Willamette Valley as seen from I-5, Portland to Eugene.

10. The Catlin Gabel lava tubes of West Portland; remnants of a Plio-Pleistocene cave system.

9. Geology of the Sandy River Preserve.

13. Late Pleistocene sediments and floods in the Willamette Valley.

37. The origin of Oswego Lake valley and Oswego Lake.

41. Geomorphology and soils, Willamette Valley, Oregon.

52. Ground surfaces and soils in the Willamette Valley, Oregon.


98. Environmental geology of the Kellogg Creek-Mt. Scott Creek and lower Clackamas River drainage areas, northwestern Clackamas County, Oregon.

183. Soil survey of Clackamas County area, Oregon.

186. Gravel deposits in the Willamette Valley between Salem and Oregon City, Oregon.

194. Soil survey of Washington County, Oregon.

195. Soil survey of Multnomah County, Oregon.

217. Some characteristics and consequences of snowmelt during rainfall in western Oregon.

234. Geology, geomorphology and dynamics of mass movement in the Middle Santiam River drainage, Western Cascades, Oregon.

267. Soil survey of the Benton County area, Oregon.

268. Soil survey of Polk County, Oregon.

292. Influence of landslides, floods, and land use on channel changes of the upper Middle Fork Willamette River, Oregon.
Geomorphology--Continued

293. Land use, floods, and channel changes: upper Middle Fork Willamette River, Oregon (1936-1980).

299. Volcaniclastic sedimentation in the Lewis River valley, Mount St. Helens, Washington; processes, extent, and hazards.

306. Field guidebook to the Quaternary stratigraphy, geomorphology and soils of the Willamette Valley, Oregon: Field trip no. 3.

305. Quaternary stratigraphy of the Willamette Valley, Oregon.


364. Quaternary soils and geomorphology, Willamette Valley.

366. Soil survey of Lane County area, Oregon.


438. Soil survey of Columbia County, Oregon.

441. The OMSI-Zoo landslide.

468. Relationships of clay mineralogy to landscape stability in western Oregon.

474. Distribution and character of loess-like soil in northwestern Oregon.

488. Soil survey of Linn County area, Oregon.

Geophysical Profiles

See Geophysical Surveys

Geophysical Surveys

70. Seismic reflection studies of buried channels off the Columbia River.

76. Tectonic setting of the southern Cascade Range as interpreted from its magnetic and gravity fields.

82. Gravity anomalies and structure of the Cascade Range in northern Oregon.

85. Aeromagnetic map of Albany-Newport area, Oregon and its geologic interpretation.
Geophysical Surveys—Continued

86. Geologic interpretation of the aeromagnetic map of the Lebanon quadrangle, Linn and Marion Counties, Oregon.

87. Geologic interpretation of reconnaissance gravity and aeromagnetic surveys in northwestern Oregon.


114. Regional tectonic and thermal model of the central Cascades, Oregon from magnetic data.

115. Spectral analysis of the central-Cascades, Oregon aeromagnetic anomaly data.

122. Free-air gravity anomaly; northern Oregon Cascades.

123. Free-air gravity anomaly map and complete Bouguer gravity anomaly map, Cascade Mountain Range, northern Oregon.

117. Geophysical mapping of the central Cascades.

120. Gravity measurements in the area of Mount Hood, Oregon; Geothermal resource assessment of Mount Hood.

124. Residual gravity maps of the northern, central, and southern Cascade Range, Oregon.

118. The Shukash and Lapine Basins; Pleistocene depressions in the Cascade Range of central Oregon.

119. Total field aeromagnetic anomaly map, Cascade Mountain Range, central Oregon.

121. Total field aeromagnetic anomaly maps; Cascade Range, northern Oregon.


131. An analysis of the eastern margin of the Portland Basin using gravity surveys.

139. A preliminary interpretation of gravity data in east Portland, Oregon.

156. Principal facts for two-hundred-thirty-three gravity stations near the Three Sisters Wilderness Area, Oregon.

199. Geophysical study of north Scappoose Creek, Alder Creek, Clatskanie River Lineement along the trend of the Portland Hills Fault, Columbia County, Oregon.
227. Principal facts for a gravity survey of Breitenbush known geothermal resource area, Oregon

244. Total field aeromagnetic anomaly map, Cascade Mountain Range, central Oregon.


249. Gravimetric investigation of the tectonics of the Portland Hills.

250. Analysis of a gravity traverse south of Portland.

251. Interpretation of gravity in the Portland, Oregon area.

254. Cenozoic active margin and shallow Cascade structure: COCORP results from western Oregon.

338. A seismic refraction study of a portion of the northeastern margin of the Tualatin Valley, Oregon.

341. The geomagnetic coast effect in the pacific northwest of North America.


351. Geophysical logs, Old Maid Flat 1, Clackamas County, Oregon.

352. Heat-flow map of the Cascade Range of Oregon and index map of mapping in the Oregon Cascades.

349. Oregon gravity maps.


376. Gravity and aeromagnetic measurements in the central Cascades of Oregon.

375. Gravity measurements in the central Oregon Cascades; a structural interpretation.


425. Geophysical and geological analysis of a fault-like linearity in the lower Clackamas River area, Clackamas County, Oregon.

435. Geophysical investigations of Washington's ground water resources; final report 1972/73.
436. Interpretation of long-line time-domain electromagnetic data from northwestern United States.

500. Aeromagnetic map of parts of the Cascade Range, southwestern Washington and northern Oregon.


505. Geological linears of the northern part of the Cascade Range, Oregon.

510. Results of a magnetotelluric traverse across western Oregon; crustal resistivity structure and the subduction of the Juan de Fuca Plate.

543. Aeromagnetic and Bouguer gravity maps of the Mount Hood Wilderness, Clackamas and Hood River Counties, Oregon.

**Glacial Geology**


9. Geology of the Sandy River Preserve.

13. Late Pleistocene sediments and floods in the Willamette Valley.

33. Periodic floods from glacial Lake Missoula into the Sanpoil arm of glacial Lake Columbia, northeastern Washington.

110. Geology of the Breitenbush Hot Springs area, Cascade Range, Oregon.


252. Late-Quaternary sediments at Battle Ground Lake, southern Puget Trough, Washington.

291. Geology and hydrology of the Lost Creek glacial trough.

511. Case for periodic, colossal jokulhlaups from Pleistocene glacial Lake Missoula.

**Glaciology**

See Glacial Geology

**Gravity Surveys**

See Geophysical Surveys
Ground Water

54. Environmental Geology of Western Linn County, Oregon.

78. Characterization of water tables in Oregon Soils with reference to trafficability; Vol. 1 - Data.


79. Characterization of water tables in Oregon soils with reference to trafficability.


110. Geology of the Breitenbush Hot Springs area, Cascade Range, Oregon.

143. Geology and ground-water resources in the vicinity of the Columbia River and Interstate 5, Clark County, Washington; No. 4.

144. Geology and ground-water resources in the vicinity of the Columbia River and Interstate 5, Clark County, Washington; No. 3.

145. Geology and ground-water resources in the vicinity of the Columbia River and Interstate 5, Clark County, Washington; No. 2.

204. Perched water tables on hillsides in western Oregon: I. Some factors affecting their development and longevity.

218. Water input-movement relations for an earthflow, western Cascades, Oregon.


289. Overland flow from sloping land: Effects of perched water tables and subsurface drains.

345. Subsurface geology of the lower Columbia and Willamette Basins, Oregon.

356. Irrigation water supply study for the Red Prairie Irrigation District, Polk and Yamhill Counties, Oregon.

433. A multiple-storage model for simulating uniform streamflow.

435. Geophysical investigations of Washington's ground water resources; final report 1972/73.

506. Photomosaic base map of the Willamette River basin, Oregon: A tool for land use and water-resource planning.
Ground Water--Continued

517. Land and water use in Oregon.

534. Willamette Basin comprehensive study of water and related land resources: Appendix B--Hydrology

536. Willamette Basin comprehensive study of water and related land resources: Appendix A--Study Area

538. Willamette Basin comprehensive study of water and related land resources: Appendix H--Municipal and Industrial Water Supply

541. Willamette Basin comprehensive study of water and related land resources: Appendix F--Irrigation

Ground-Water Aquifers

142. The quality of water in the principal aquifers of southwestern Washington.

161. Valley alluvium most productive aquifer in Harrisburg-Halsey area.

189. Ground water resources of the Dallas-Monmouth area, Polk, Benton, and Marion Counties, Oregon.

226. Lithology, thickness, and extent of hydrogeologic units underlying the east Portland area, Oregon.

307. Description of aquifer units in western Oregon.

388. Subsurface sewage disposal and contamination of ground water in east Portland, Oregon.

408. Estimated existing and potential ground-water storage in major drainage basins in Oregon.

Ground-Water Data


46. Ground-water levels, 1966.

47. Ground-water levels, 1967-1968.

158. Records of wells and springs, water levels, and chemical quality of ground water in the east Portland area, Oregon.

165. Ground-water data in the Corvallis-Albany area, central Willamette Valley, Oregon.

164. Selected ground-water data in the Eugene-Springfield area, southern Willamette Valley, Oregon.
Ground-Water Data--Continued

166. Selected ground-water data in the Harrisburg-Halsey area, central Willamette Valley, Oregon.

212. Records of wells, water levels, and chemical quality of ground water in the Molalla-Salem, Slope area, northern Willamette Valley, Oregon.

231. Records of wells, water levels, and chemical quality of water in the lower Santiam River basin, middle Willamette Valley, Oregon.


381. Records of wells, water levels, and chemical quality of the ground water in the French Prairie - Mission Bottom area, northern Willamette Valley, Oregon.

384. Selected ground water data in the Eola-Amity hills area, northern Willamette Valley, Oregon.


413. Ground water levels, 1964.


464. Bibliography of available ground-water information in Oregon.


Ground-Water Surveys

90. Problems of utilizing ground water in the west-side business district of Portland, Oregon.

137. Ground-water study of the Santa Clara-River Road area, Eugene, Oregon.

142. The quality of water in the principal aquifers of southwestern Washington.

157. Hydrologic conditions and artificial recharge through a well in the Salem Heights area of Salem, Oregon.
Ground-Water Surveys--Continued


160. Ground water in the Corvallis-Albany area, central Willamette Valley, Oregon.

162. Ground water in the Harrisburg-Halsey area, southern Willamette Valley, Oregon.

163. Ground water in the Newberg area, northern Willamette Valley, Oregon.

189. Ground water resources of the Dallas-Monmouth area, Polk, Benton, and Marion Counties, Oregon.

190. Ground-water resources in the Hood Basin, Oregon.

198. Water resources of the Portland, Oregon, Vancouver, Washington area.

203. The ground-water geology of the southwestern quarter of the Eugene Quadrangle, Oregon.

213. Geology and ground water of the Molalla-Salem Slope area, northern Willamette Valley, Oregon.

225. Geology and ground water of the Tualatin Valley, Oregon.

224. List of ground-water resources in Oregon known to yield mineralized water (over 1,000 ppm dissolved solids or 60 percent solution).

232. Ground-water resources of the lower Santiam River basin, middle Willamette Valley, Oregon.

238. Geology of the Portland well field

237. Hydrogeology of the Portland Basin.

239. Ground water in the east Portland area, Oregon.

284. Availability of ground water in the northern part of Clackamas County, Oregon.

285. Ground water in the northern part of Clackamas County, Oregon.

291. Geology and hydrology of the Lost Creek glacial trough.

308. Well field hydrogeology and simulation modeling, Portland, Oregon.

Ground-Water Surveys--Continued

333. Geology and ground-water conditions of Clark County, Washington.

342. Storage of ground water behind subsurface dams in the Columbia River basalt, Washington, Oregon, and Idaho.

347. City of Vancouver ground water source and use study, Volume I - Summary.

374. Ground-water resources of the Willamette Valley, Oregon.


382. Geology and water resources in the French Prairie area, northern Willamette Valley, Oregon.


408. Estimated existing and potential ground-water storage in major drainage basins in Oregon.

457. Geology and ground-water resources of the upper McKenzie Valley, Oregon.

484. Willamette River Basin Oregon, USDA Interim Report; A contribution to the Willamette River Basin Comprehensive Survey.

544. Ground water exploratory program.

545. Pilot well study.

Ground-Water Quality

125. Environmental quality, the fourth annual report of the Council on Environmental Quality.

129. Interim status report, Ground-water monitoring project, Pretreatment plant surface impoundment, Boeing of Portland, Facility.

142. The quality of water in the principal aquifers of southwestern Washington.

158. Records of wells and springs, water levels, and chemical quality of ground water in the east Portland area, Oregon.

188. The unusual and widespread occurrence of arsenic in well waters of Lane County, Oregon.

200. Potential health hazards associated with the disposal of sewage sludge on agricultural soils in western Oregon.

87
Ground-Water Quality--Continued

201. Soil suitability for on-site waste disposal: Development of genetically marked Escherichia coli strains as tracers of subsurface water flow.

205. Water and anion movement in selected soils of western Oregon.

274. Boeing of Portland, Phase I investigation.

275. Quarterly status report, Boeing of Portland, Phase I investigation; First quarter.

276. Quarterly status report, Boeing of Portland, Phase I investigation; Second quarter.

288. Hydroscopic trace elements and their application in tracing water pollutants.

307. Description of aquifer units in western Oregon.

344. Quality of ground water in basalt of the Columbia River Group, Washington, Oregon, and Idaho.


465. Ground water pollution by wood waste disposal.

469. Water quality within east Portland terraces.

517. Land and water use in Oregon.

516. Water and environmental quality.

521. Septic-tank drainfield performances in five Willamette Valley soils.

546. Effect of tile drainage on disposal of septic tank effluent in wet soils.

Hydrology

See Ground Water; Surface Water

Land Use

71. Long-term patterns of sediment production following road construction and logging in the Oregon Coast Range.

72. Sediment and organic matter transport in Oregon Coast Range streams.

91. Erosion potential assessment for the Willamette River basin, Oregon River-quality assessments.
Land Use--Continued

92. A synoptic approach for analyzing erosion as a guide to land-use planning.

98. Environmental geology of the Kellogg Creek-Mt. Scott Creek and lower Clackamas River drainage areas, northwestern Clackamas County, Oregon.

103. Computer Simulation of land use dynamics.

143. Geology and ground-water resources in the vicinity of the Columbia River and Interstate 5, Clark County, Washington; No. 4.

144. Geology and ground-water resources in the vicinity of the Columbia River and Interstate 5, Clark County, Washington; No. 3.

145. Geology and ground-water resources in the vicinity of the Columbia River and Interstate 5, Clark County, Washington; No. 2.


182. Low-cost computer classification of land cover in the Portland area, Oregon, by signature extension techniques.

282. Appraisal of waterpower potential and land classifications, Clackamas River basin, Oregon.

292. Influence of landslides, floods, and land use on channel changes of the upper Middle Fork Willamette River, Oregon.

293. Land use, floods, and channel changes: upper Middle Fork Willamette River, Oregon (1936-1980).

317. Major arterial map.

318. Erosional problems related to land-use activities in the Willamette River basin, Oregon.


363. Urban environmental geology and planning, Portland, Oregon.

397. Project development and data programs for assessing the quality of the Willamette River, Oregon.

420. Geologic restraints to development in selected areas of Marion County, Oregon.

423. Geology and geological hazards of northwestern Clackamas County, Oregon
Land Use--Continued

424. Rock material resources of Benton County, Oregon.

430. Importance of streamside forests to large rivers: The isolation of the Willamette River, Oregon, U.S.A., from its floodplain by snagging and streamside forest removal.

443. Appraisal of waterpower and reservoir sites, Nestucca River basin, Oregon.

492. Land use and land cover and associated maps for Salem (W 1/2), Oregon.

493. Land use and land cover and associated maps for Roseburg, Oregon.

494. Land use and land cover and associated maps for Vancouver, Oregon, Washington.

495. Land use and land cover and associated map for Oak Ridge, Oregon.

496. Land use and land cover, 1974-75, Oregon City, Oregon.

497. Land use and land cover, 1974, Oakridge, Oregon.

498. Land use and land cover, 1974-75, North Santiam River, Oregon.

499. Land use and land cover, 1974-76, McKenzie River, Oregon.

506. Photomosaic base map of the Willamette River basin, Oregon: A tool for land use and water-resource planning.

517. Land and water use in Oregon.

529. Willamette Basin comprehensive study of water and related land resources: Appendix C--Economic Base.


531. Willamette Basin comprehensive study of water and related land resources: Appendix K--Recreation.

532. Willamette Basin comprehensive study of water and related land resources: Appendix L--Water Pollution Control.

533. Willamette Basin comprehensive study of water and related land resources: Main Report.

534. Willamette Basin comprehensive study of water and related land resources: Appendix B--Hydrology.
Land Use--Continued

536. Willamette Basin comprehensive study of water and related land resources: Appendix A--Study Area.

537. Willamette Basin comprehensive study of water and related land resources: Appendix D--Fish and Wildlife.

539. Willamette Basin comprehensive study of water and related land resources: Appendix G--Land Measures and Watershed Protection.


541. Willamette Basin comprehensive study of water and related land resources: Appendix F--Irrigation.

542. Willamette Basin comprehensive water and related land resources study, Oregon (Draft Environmental Impact Statement).

Lane County

32. The geology of the Windberry Creek area, Lane County, Oregon.

76. Tectonic setting of the southern Cascade Range as interpreted from its magnetic and gravity fields.


122. Free-air gravity anomaly; northern Oregon Cascades.

135. Hydrothermal alteration and mineralization at the Blackbutte mercury mine, Lane County, Oregon.


137. Ground-water study of the Santa Clara-River Road area, Eugene, Oregon.

156. Principal facts for two-hundred-thirty-three gravity stations near the Three Sisters Wilderness Area, Oregon.


162. Ground water in the Harrisburg-Halsey area, southern Willamette Valley, Oregon.

164. Selected ground-water data in the Eugene-Springfield area, southern Willamette Valley, Oregon.
Lane County--Continued

166. Selected ground-water data in the Harrisburg-Halsey area, central Willamette Valley, Oregon.

161. Valley alluvium most productive aquifer in Harrisburg-Halsey area.

178. Stratigraphy of the middle to late Eocene formations of southwestern Willamette Valley, Oregon.

188. The unusual and widespread occurrence of arsenic in well waters of Lane County, Oregon.

193. Mineral potential of the Fall Creek mining district; a geological-geochemical survey.

192. Overview of the Bohemia mining district.

203. The ground-water geology of the southwestern quarter of the Eugene Quadrangle, Oregon.

214. The effects of two multipurpose reservoirs on the water temperature of the McKenzie River, Oregon.

218. Water input-movement relations for an earthflow, western Cascades, Oregon.

229. Welded tuff along the Row River, western Oregon.


277. Lane County preliminary general plan-water quality report.

278. Lane County preliminary general plan-water quality management plan.

280. Turbidity-induced meromixis in an Oregon reservoir; hypothesis.

291. Geology and hydrology of the Lost Creek glacial trough.

292. Influence of landslides, floods, and land use on channel changes of the upper Middle Fork Willamette River, Oregon.

293. Land use, floods, and channel changes: upper Middle Fork Willamette River, Oregon (1936-1980).

296. Geology of the southern third of the Marcola quadrangle, Oregon.


341. The geomagnetic coast effect in the pacific northwest of North America.
Lane County--Continued

366. Soil survey of Lane County area, Oregon.

386. Geologic map of the McKenzie Bridge quadrangle, Lane County, Oregon.

415. Physicochemical and biological characteristics of Hills Creek reservoir.

421. Reconnaissance geologic map of the Marcola, Leaburg, and Lowell quadrangles, Oregon.

457. Geology and ground-water resources of the upper McKenzie Valley, Oregon.

470. Field geology of S.W. Broken Top quadrangle, Oregon.

471. Geologic map of the Three Sisters Wilderness, Deschutes, Lane, and Linn Counties, Oregon.

486. Flood hazard analysis, Hendricks Bridge to Leaburg Dam on the McKenzie River, Lane County, Oregon.

485. Flood-plain study of the Seavy Loop area, Coast Fork, Willamette River, Lane County, Oregon.


492. Land use and land cover and associated maps for Salem (W 1/2), Oregon.

493. Land use and land cover and associated maps for Roseburg, Oregon.

495. Land use and land cover and associated map for Oak Ridge, Oregon.

497. Land use and land cover, 1974, Oakridge, Oregon.

499. Land use and land cover, 1974-76, McKenzie River, Oregon.

505. Geological linears of the northern part of the Cascade Range, Oregon.

509. Geology of the southern and southwestern border area of the Willamette Valley, Oregon.

Linn County


15. Reconnaissance geologic map of the Lebanon quadrangle, Oregon.

19. Geology of the Northwest quarter of the Brownsville quadrangle, Oregon.

31. Flood plain information: South Santiam River, Lebanon, Oregon.

54. Environmental Geology of Western Linn County, Oregon.

66. Geology of the Rickreall, Salem West, Monmouth, and Sidney 7 1/2' quadrangles, Marion, Polk, and Linn Counties, Oregon.

74. Geologic map of the Crescent Mountain area, Linn County, Oregon.

86. Geologic interpretation of the aeromagnetic map of the Lebanon quadrangle, Linn and Marion Counties, Oregon.

122. Free-air gravity anomaly; northern Oregon Cascades.


153. The Geology of the Lebanon Quadrangle.

160. Ground water in the Corvallis-Albany area, central Willamette Valley, Oregon.

162. Ground water in the Harrisburg-Halsey area, southern Willamette Valley, Oregon.

165. Ground-water data in the Corvallis-Albany area, central Willamette Valley, Oregon.

166. Selected ground-water data in the Harrisburg-Halsey area, central Willamette Valley, Oregon.

161. Valley alluvium most productive aquifer in Harrisburg-Halsey area.

191. A geological field trip guide from Sweet Home, Oregon, to the Quartzville mining district.

209. Preliminary report on the reconnaissance geology of the Upper Clackamas and North Santiam Rivers area, Cascade Range, Oregon.

228. Geology of the southwest quarter of the Brownsville quadrangle, Oregon.

232. Ground-water resources of the lower Santiam River basin, middle Willamette Valley, Oregon.

231. Records of wells, water levels, and chemical quality of water in the lower Santiam River basin, middle Willamette Valley, Oregon.

234. Geology, geomorphology and dynamics of mass movement in the Middle Santiam River drainage, Western Cascades, Oregon.
Linn County--Continued


257. Volcanic stratigraphy and alteration mineralogy of drill cuttings from EWEB 2 drill hole, Linn County, Oregon.

258. Volcanic stratigraphy and alteration mineralogy of drill cuttings from EWEB 1 drill hole, Linn County, Oregon.

271. Preliminary study using digital modeling techniques to understand and predict the temperature regime in a stream below a major reservoir--The North Santiam River below Detroit Dam, Oregon.

295. The geology of the Halsey quadrangle, Oregon

387. Geologic map of the Breitenbush River area, Linn and Marion Counties, Oregon.

470. Field geology of S.W. Broken Top quadrangle, Oregon.

471. Geologic map of the Three Sisters Wilderness, Deschutes, Lane, and Linn Counties, Oregon.

488. Soil survey of Linn County area, Oregon.


492. Land use and land cover and associated maps for Salem (W 1/2), Oregon.

498. Land use and land cover, 1974-75, North Santiam River, Oregon.

499. Land use and land cover, 1974-76, McKenzie River, Oregon.

505. Geological linears of the northern part of the Cascade Range, Oregon.

510. Results of a magnetotelluric traverse across western Oregon; crustal resistivity structure and the subduction of the Juan de Fuca Plate.

512. Mineral resource potential of the middle Santiam Roadless Area, Linn County, Oregon.

Magnetic Surveys

See Geophysical Surveys

95
Marion County

24. Flood plain information: Willamette River and Tributaries in Marion and Polk Counties, Oregon.

35. The stratigraphy and depositional setting of the Spencer Formation, west-central Willamette Valley, Oregon.

66. Geology of the Rickreall, Salem West, Monmouth, and Sidney 7 1/2' quadrangles, Marion, Polk, and Linn Counties, Oregon.

86. Geologic interpretation of the aeromagnetic map of the Lebanon quadrangle, Linn and Marion Counties, Oregon.

110. Geology of the Breitenbush Hot Springs area, Cascade Range, Oregon.

122. Free-air gravity anomaly; northern Oregon Cascades.

157. Hydrologic conditions and artificial recharge through a well in the Salem Heights area of Salem, Oregon.

186. Gravel deposits in the Willamette Valley between Salem and Oregon City, Oregon.

189. Ground water resources of the Dallas-Monmouth area, Polk, Benton, and Marion Counties, Oregon.

202. The geology of the northern third of the Lyons quadrangle, Oregon.

209. Preliminary report on the reconnaissance geology of the Upper Clackamas and North Santiam Rivers area, Cascade Range, Oregon.

213. Geology and ground water of the Molalla-Salem Slope area, northern Willamette Valley, Oregon.

212. Records of wells, water levels, and chemical quality of ground water in the Molalla-Salem, Slope area, northern Willamette Valley, Oregon.

216. Preliminary report on the geology of the Molalla quadrangle, Oregon.

227. Principal facts for a gravity survey of Breitenbush known geothermal resource area, Oregon.


271. Preliminary study using digital modeling techniques to understand and predict the temperature regime in a stream below a major reservoir--The North Santiam River below Detroit Dam, Oregon.
Marion County--Continued

270. Storm runoff as related to urbanization based on data collected in Salem, and Portland, and generalized for the Willamette Valley, Oregon.

323. Mid-Tertiary transgressive rocky coast sedimentation; central western Cascade Range, Oregon.

326. Appraisal of storm-water quality near Salem, Oregon.

332. Geology of the Salem quadrangle, Oregon.

348. Geology of the Stayton quadrangle, Oregon.

359. Geologic map of the Drake Crossing quadrangle, Marion County, Oregon.

360. Geologic map of the Elk Prairie quadrangle, Marion and Clackamas Counties, Oregon.

358. Mid-Tertiary stratigraphy of the Oregon western Cascades.

382. Geology and water resources in the French Prairie area, northern Willamette Valley, Oregon.

381. Records of wells, water levels, and chemical quality of the ground water in the French Prairie - Mission Bottom area, northern Willamette Valley, Oregon.

387. Geologic map of the Breitenbush River area, Linn and Marion Counties, Oregon.

420. Geologic restraints to development in selected areas of Marion County, Oregon.

473. Geology of the Salem Hills and the North Santiam River basin, Oregon.

492. Land use and land cover and associated maps for Salem (W 1/2), Oregon.

494. Land use and land cover and associated maps for Vancouver, Oregon, Washington.

498. Land use and land cover, 1974-75, North Santiam River, Oregon.

505. Geological linears of the northern part of the Cascade Range, Oregon.

510. Results of a magnetotelluric traverse across western Oregon; crustal resistivity structure and the subduction of the Juan de Fuca Plate.
Marion County--Continued

513. Geologic map of the Salem one degree by two degree sheet

525. Geology and geochemistry of volcanic rocks in the Detroit area, western Cascade Range, Oregon

Mathematical Models

20. A general linear approach to stream water quality modeling.

34. Explore-I: A river basin water quality model.

50. Nonlinear programming in river basin modeling.

51. Functional evaluation of a water resources system.

67. General model to simulate flow in branched estuaries.


88. Decision making in water resource allocation.

103. Computer Simulation of land use dynamics.

134. Water discharge determinations for the tidal reach on the Willamette river from Ross Island Bridge to Mile 10.3, Portland, Oregon.

141. Effect of an industrial ammonia discharge on the dissolved oxygen regime of the Willamette River, Oregon.

140. A geographically variable water quality index used in Oregon.

147. Cost efficiency of time-varying discharge permit programs for water quality management.

167. Effectiveness of river models.


230. Energy analysis of regional water pollution control.

271. Preliminary study using digital modeling techniques to understand and predict the temperature regime in a stream below a major reservoir--The North Santiam River below Detroit Dam, Oregon.

303. Evaluation of selected one-dimensional stream water-quality models with field data.

308. Well field hydrogeology and simulation modeling, Portland, Oregon.
Mathematical Models--Continued

315. Steady-state dissolved oxygen model of the Willamette River, Oregon.

390. Linear programming applied to water quality management.

392. River quality assessment: The basis for management decisions.


393. Use of dissolved oxygen modeling results in the management of river quality.

402. Dissolved-oxygen and algal conditions in selected locations of the Willamette River basin, Oregon.

432. Reservoir-system model for the Willamette River basin, Oregon.

433. A multiple-storage model for simulating uniform streamflow.

Mineral Resources

See Economic Geology

Multnomah County

10. The Catlin Gabel lava tubes of West Portland; remnants of a Plio-Pleistocene cave system.

8. Volcanoes of the Portland area, Oregon.


40. Evidence for the Portland Hills fault.


61. Fault identification and structural evolution of the Portland area.

64. Geologic map of the Lake Oswego quadrangle, Clackamas, Multnomah, and Washington Counties, Oregon.

58. A model for the geologic history of Mount Tabor, Kelly Butte, and Powell Butte in southeast Portland.

60. Portland environmental geology--Fault identification: Final technical report.
68. Preliminary tectonic map of the greater Portland area.


90. Problems of utilizing ground water in the west-side business district of Portland, Oregon.


126. Recent eruptive history of Mount Hood, Oregon, and potential hazards from future eruptions.

129. Interim status report, Ground-water monitoring project, Pretreatment plant surface impoundment, Boeing of Portland, Facility.

131. An analysis of the eastern margin of the Portland Basin using gravity surveys.

139. A preliminary interpretation of gravity data in east Portland, Oregon.

146. Johnson Creek water-quality assessment.

158. Records of wells and springs, water levels, and chemical quality of ground water in the east Portland area, Oregon.

173. Quality of bottom material and elutriates in the lower Willamette River, Portland Harbor, Oregon.


182. Low-cost computer classification of land cover in the Portland area, Oregon, by signature extension techniques.

184. Geologic history of the Portland region.

195. Soil survey of Multnomah County, Oregon.

198. Water resources of the Portland, Oregon, Vancouver, Washington area.

207. Introductory report on project PEG, Portland Environmental Geology.

211. A preliminary geological investigation of the ground effects of earthquakes in the Portland metropolitan area, Oregon.
Multnomah County--Continued

226. Lithology, thickness, and extent of hydrogeologic units underlying the east Portland area, Oregon.

238. Geology of the Portland well field.

237. Hydrogeology of the Portland Basin.

239. Ground water in the east Portland area, Oregon.

249. Gravimetric investigation of the tectonics of the Portland Hills.

248. Microearthquakes near Portland, Oregon.

250. Analysis of a gravity traverse south of Portland.

251. Interpretation of gravity in the Portland, Oregon area.


269. Storm runoff as related to urbanization in the Portland, Oregon-Vancouver, Washington.

270. Storm runoff as related to urbanization based on data collected in Salem, and Portland, and generalized for the Willamette Valley, Oregon.

274. Boeing of Portland, Phase I investigation.

275. Quarterly status report, Boeing of Portland, Phase I investigation; First quarter.

276. Quarterly status report, Boeing of Portland, Phase I investigation; Second quarter.

283. The petrology and stratigraphy of the Portland Hills Silt -- A Pacific Northwest Loess.


308. Well field hydrogeology and simulation modeling, Portland, Oregon.

314. Analysis of bottom material from the Willamette River, Portland Harbor, Oregon.

317. Major arterial map.

328. Analysis of street sweepings, Portland, Oregon.

327. Analysis of urban storm-water quality from seven basins near Portland, Oregon.
324. Basic data on urban storm-water quality, Portland, Oregon.

325. Data on urban storm-water quality, Portland, Oregon.


363. Urban environmental geology and planning, Portland, Oregon.


388. Subsurface sewage disposal and contamination of ground water in east Portland, Oregon.


403. Elutriation study of Willamette River bottom material and Willamette--Columbia River water.

404. Monitoring water-quality during pilot dredging in the Willamette and Columbia Rivers, Oregon.

409. Water quality and the migration of fall salmon in the lower Willamette River.

426. Geological analysis of the Portland Hills-Clackamas River alignment, Oregon.

428. The quantification of soil mass movements and their relationship to bedrock geology in the Bull Run Watershed, Multnomah and Clackamas Counties, Oregon.

441. The OMSI-Zoo landslide.

463. A stratigraphic-geochemical study of the Troutdale Formation and Sandy River Mudstone in the Portland Basin and lower Columbia River Gorge.

469. Water quality within east Portland terraces.

479. Geologic history of the Portland area.

480. Geologic map of the Portland area, Oregon.

481. Geology of the Portland quadrangle, Oregon-Washington.
Multnomah County--Continued

482. Geology of Portland, Oregon and adjacent areas: A study of Tertiary and Quaternary deposits, lateritic weathering profiles, and of Quaternary history of part of the Pacific Northwest.

494. Land use and land cover and associated maps for Vancouver, Oregon, Washington.

505. Geological linears of the northern part of the Cascade Range, Oregon.

507. The stratigraphy and structure of the Columbia River Basalt Group in the Bull Run Watershed, Multnomah and Clackamas Counties, Oregon.

544. Ground water exploratory program.

545. Pilot well study.

Paleontology

177. Polinices pollutes the paleo-environment.

179. Biostratigraphy of the Type Yamhill Formation, Polk County, Oregon.

312. Biostratigraphy of exploratory wells, northern Willamette Basin, Oregon.

313. Biostratigraphy of exploratory wells, southern Willamette Basin, Oregon.

310. Micropaleontological study of five wells, western Willamette Valley, Oregon.

316. Stratigraphic and biostratigraphic relationships of the Tyee and Yamhill Formations in central-western Oregon.

335. Age, facies relations, and a river mouth/shelf/submarine channel depositional model for the Clifton Formation, northwestern Oregon.

407. The palynology of a nonmarine Neogene deposite in the Willamette Valley, Oregon.

Percolation

See Ground Water

Petrology

Petrology--Continued

14. Late Pleistocene sediments and floods in the Willamette Valley.

38. Early Tertiary sedimentary and tectonic history of the southern Coast Range, Oregon.

113. Preliminary investigation of lithological characteristics of the Troutdale Formation in Camas, Sandy, Washougal, and Bridal Veil quadrangles.

128. Stratigraphic and petrologic analysis of trends within the Spencer Formation sandstones from Corvallis, Benton County, to Henry Hagg Lake...

229. Welded tuff along the Row River, western Oregon.

242. Geochemistry, petrogenesis, and tectonic implications of central High Cascade mafic platform lavas.

255. Volcanic stratigraphy and alteration mineralogy of drill cuttings from EWEB 4 drill hole, Clackamas County, Oregon.

256. Volcanic stratigraphy and alteration mineralogy of drill cuttings from EWEB 3 drill hole, Clackamas County, Oregon.

257. Volcanic stratigraphy and alteration mineralogy of drill cuttings from EWEB 2 drill hole, Linn County, Oregon.

258. Volcanic stratigraphy and alteration mineralogy of drill cuttings from EWEB 1 drill hole, Linn County, Oregon.


283. The petrology and stratigraphy of the Portland Hills Silt -- A Pacific Northwest Loess.

304. Base surge deposits in the western Cascades, Oregon

525. Geology and geochemistry of volcanic rocks in the Detroit area, western Cascade Range, Oregon.

Polk County

24. Flood plain information: Willamette River and Tributaries in Marion and Polk Counties, Oregon.

36. Geology of the Dallas and Valsetz 15-minute quadrangle, Polk County.

66. Geology of the Rickreall, Salem West, Monmouth, and Sidney 7 1/2' quadrangles, Marion, Polk, and Linn Counties, Oregon.

94. Geologic map of the Grand Ronde quadrangle, Polk and Yamhill Counties, Oregon.
Polk County--Continued

93. Preliminary geologic map of the Ballston quadrangle.

128. Stratigraphic and petrologic analysis of trends within the Spencer Formation sandstones from Corvallis, Benton County, to Henry Hagg Lake...

177. Polinices pollutes the paleo-environment.

179. Biostratigraphy of the Type Yamhill Formation, Polk County, Oregon.

189. Ground-water resources of the Dallas-Monmouth area, Polk, Benton, and Marion Counties, Oregon.

268. Soil survey of Polk County, Oregon.

356. Irrigation water supply study for the Red Prairie Irrigation District, Polk and Yamhill Counties, Oregon.

427. The geology of the southwestern part of the Valstetz quadrangle, Oregon.

450. Ash Creek watershed, Polk County, preliminary investigation.

453. Ash Creek RC & D measure work plan for flood prevention.

454. Ash Creek RC & D project, Polk County, Oregon; environmental assessment.

449. Little Luckiamute River watershed work plan: A review draft.

452. Little Luckiamute River watershed, draft environmental statement.

455. Red Prairie irrigation district, Polk and Yamhill Counties, Oregon, an irrigation water supply study.

492. Land use and land cover and associated maps for Salem (W 1/2), Oregon.

508. Geology of the west central border area of the Willamette Valley, Oregon.

510. Results of a magnetotelluric traverse across western Oregon; crustal resistivity structure and the subduction of the Juan de Fuca Plate.

513. Geologic map of the Salem one degree by two degree sheet.

Pollution

See Ground-Water Quality; Surface-Water Quality
Pore Water

See Ground Water

Quaternary Geology

5. Late Pleistocene sediments and floods in the Willamette Valley.

10. The Catlin Gabel lava tubes of West Portland; remnants of a Plio-Pleistocene cave system.

9. Geology of the Sandy River Preserve.

13. Late Pleistocene sediments and floods in the Willamette Valley.

14. Late Pleistocene sediments and floods in the Willamette Valley.


33. Periodic floods from glacial Lake Missoula into the Sanpoil arm of glacial Lake Columbia, northeastern Washington.

42. Late Pleistocene stratigraphy, southern Willamette Valley, Oregon.

105. Post-glacial lahars of the Sandy River basin, Mount Hood, Oregon.

118. The Shukash and Lapine Basins; Pleistocene depressions in the Cascade Range of central Oregon.


184. Geologic history of the Portland region.

186. Gravel deposits in the Willamette Valley between Salem and Oregon City, Oregon.

187. Late Quaternary sedimentation and geologic history of the north Willamette Valley, Oregon.

252. Late-Quaternary sediments at Battle Ground Lake, southern Puget Trough, Washington.

291. Geology and hydrology of the Lost Creek glacial trough.

306. Field guidebook to the Quaternary stratigraphy, geomorphology and soils of the Willamette Valley, Oregon: Field trip no. 3.

305. Quaternary stratigraphy of the Willamette Valley, Oregon.


364. Quaternary soils and geomorphology, Willamette Valley.
Quaternary Geology--Continued

405. The late Cenozoic history of an alluvial fill: the southern Willamette Valley, Oregon.

482. Geology of Portland, Oregon and adjacent areas: A study of Tertiary and Quaternary deposits, lateritic weathering profiles, and of Quaternary history of part of the Pacific Northwest.

Rainfall

See Atmospheric Precipitation

Remote Sensing

49. Region X environmental monitoring requirements and applications.

91. Erosion potential assessment for the Willamette River basin, Oregon River-quality assessments.

114. Regional tectonic and thermal model of the central Cascades, Oregon from magnetic data.

117. Geophysical mapping of the central Cascades.

180. Maximum midsummer surface temperatures in Oregon's Willamette Valley.

181. Radiative temperatures in the Willamette Valley.

182. Low-cost computer classification of land cover in the Portland area, Oregon, by signature extension techniques.


376. Gravity and aeromagnetic measurements in the central Cascades of Oregon.

375. Gravity measurements in the central Oregon Cascades; a structural interpretation.

505. Geological linears of the northern part of the Cascade Range, Oregon.

Rivers

See Surface Water

Runoff

See Surface Water

107
Sedimentology


5. Late Pleistocene sediments and floods in the Willamette Valley.

9. Geology of the Sandy River Preserve.

13. Late Pleistocene sediments and floods in the Willamette Valley.

14. Late Pleistocene sediments and floods in the Willamette Valley.


35. The stratigraphy and depositional setting of the Spencer Formation, west-central Willamette Valley, Oregon.

38. Early Tertiary sedimentary and tectonic history of the southern Coast Range, Oregon.

70. Seismic reflection studies of buried channels off the Columbia River.

71. Long-term patterns of sediment production following road construction and logging in the Oregon Coast Range

72. Sediment and organic matter transport in Oregon Coast Range streams.

91. Erosion potential assessment for the Willamette River basin, Oregon River-quality assessments.

92. A synoptic approach for analyzing erosion as a guide to land-use planning.

104. Geology of the southcentral margin of the Tillamook Highlands; southwest quarter of the Enright quadrangle, Tillamook County, Oregon.

105. Post-glacial lahars of the Sandy River basin, Mount Hood, Oregon.

186. Gravel deposits in the Willamette Valley between Salem and Oregon City, Oregon.

187. Late Quaternary sedimentation and geologic history of the north Willamette Valley, Oregon.

246. Effect of subsurface drainage on runoff and sediment yield from an agricultural watershed in western Oregon.

252. Late-Quaternary sediments at Battle Ground Lake, southern Puget Trough, Washington.
Sedimentology--Continued


261. Stratigraphy, lithofacies, and environment of deposition of the Scappoose Formation in central Columbia County, Oregon.

273. Relationship of the nature of suspended clay minerals to hydrologic conditions.

286. Changes in large organic debris in forested streams, western Oregon.

299. Volcaniclastic sedimentation in the Lewis River valley, Mount St. Helens, Washington; processes, extent, and hazards.

304. Base surge deposits in the western Cascades, Oregon.

323. Mid-Tertiary transgressive rocky coast sedimentation; central western Cascade Range, Oregon.

335. Age, facies relations, and a river mouth/shelf/submarine channel depositional model for the Clifton Formation, northwestern Oregon.

346. Subsurface correlations in the Mist area, Columbia County, Oregon.

405. The late Cenozoic history of an alluvial fill: the southern Willamette Valley, Oregon.

407. The palynology of a nonmarine Neogene deposit in the Willamette Valley, Oregon.


475. Stratigraphy, lithofacies and depositional environments of the Cowlitz Formation, T.4 and 5 N., R.5 W., northwest Oregon.

503. Nonmarine lithofacies included in Scappoose Formation, Northwest Oregon.

504. Scappoose Formation, Columbia County, Oregon; new evidence of age and relation to Columbia River Basalt Group.

511. Case for periodic, colossal jokulhlaups from Pleistocene glacial Lake Missoula.

See Ground Water; Surface Water
Seismology

40. Evidence for the Portland Hills fault.

55. Geologic hazards of parts of northern Hood River, Wasco, and Sherman Counties, Oregon.

70. Seismic reflection studies of buried channels off the Columbia River.

211. A preliminary geological investigation of the ground effects of earthquakes in the Portland metropolitan area, Oregon.

243. Geologic hazards review; Trojan nuclear power plant site, Columbia County, Oregon.


248. Microearthquakes near Portland, Oregon.

338. A seismic refraction study of a portion of the northeastern margin of the Tualatin Valley, Oregon.

437. Earthquake hazards of Clark County, Washington.

460. Earthquake and landslide on the Columbia.

Simulation Analysis

See Mathematical Models

Snow Hydrology

16. Runoff synthesis for rain-on-snow basins.

217. Some characteristics and consequences of snowmelt during rainfall in western Oregon.

Soil Horizons

See Soils

Soil Moisture

See Soils

Soils

41. Geomorphology and soils, Willamette Valley, Oregon.

52. Ground surfaces and soils in the Willamette Valley, Oregon.

78. Characterization of water tables in Oregon Soils with reference to trafficability; Vol. 1 - Data.

79. Characterization of water tables in Oregon soils with reference to trafficability.


91. Erosion potential assessment for the Willamette River basin, Oregon River-quality assessments.

183. Soil survey of Clackamas County area, Oregon.

194. Soil survey of Washington County, Oregon.

195. Soil survey of Multnomah County, Oregon.

200. Potential health hazards associated with the disposal of sewage sludge on agricultural soils in western Oregon.

201. Soil suitability for on-site waste disposal: Development of genetically marked Escherichia coli strains as tracers of subsurface water flow.

204. Perched water tables on hillsides in western Oregon: I. Some factors affecting their development and longevity.

205. Water and anion movement in selected soils of western Oregon.

233. Herbicides in runoff from agricultural watersheds in a high-winter-rainfall zone.

267. Soil survey of the Benton County area, Oregon.

268. Soil survey of Polk County, Oregon.

273. Relationship of the nature of suspended clay minerals to hydrologic conditions.

306. Field guidebook to the Quaternary stratigraphy, geomorphology and soils of the Willamette Valley, Oregon: Field trip no. 3.

305. Quaternary stratigraphy of the Willamette Valley, Oregon.


355. Oregon's long-range requirements for water: General soil map report with irrigable areas, Willamette Drainage Basin.

Soils--Continued

364. Quaternary soils and geomorphology, Willamette Valley.

366. Soil survey of Lane County area, Oregon.


428. The quantification of soil mass movements and their relationship to bedrock geology in the Bull Run Watershed, Multnomah and Clackamas Counties, Oregon.

438. Soil survey of Columbia County, Oregon.

462. Complex mass-movement terrains in the western Cascade Range, Oregon.

468. Relationships of clay mineralogy to landscape stability in western Oregon.

474. Distribution and character of loess-like soil in northwestern Oregon.

482. Geology of Portland, Oregon and adjacent areas: A study of Tertiary and Quaternary deposits, lateritic weathering profiles, and of Quaternary history of part of the Pacific Northwest.

488. Soil survey of Linn County area, Oregon.

521. Septic-tank drainfield performances in five Willamette Valley soils.

546. Effect of tile drainage on disposal of septic tank effluent in wet soils.

Stratigraphy


2. The structure and stratigraphy of the Columbia River Basalt in the Chehalem Mountains, Oregon.


9. Geology of the Sandy River Preserve.

14. Late Pleistocene sediments and floods in the Willamette Valley.

Stratigraphy—Continued

18. Pomona Member of the Columbia River Basalt Group; an intracanyon flow in the Columbia River Gorge, Oregon.

17. The stratigraphy and structure of the Columbia River Basalt in the Clackamas River drainage.


35. The stratigraphy and depositional setting of the Spencer Formation, west-central Willamette Valley, Oregon.

42. Late Pleistocene stratigraphy, southern Willamette Valley, Oregon.

57. Columbia River Basalt Group stratigraphy in western Oregon.

59. Regional correlations within the Frenchman Springs Member of the Columbia River Basalt Group: New insights into the Middle Miocene tectonics of northwestern Oregon.


97. Mist gas field, Columbia County, Oregon.

101. The stratigraphy and structure of the Columbia River Basalt Group in the Salmon River area, Oregon.

105. Post-glacial lahars of the Sandy River basin, Mount Hood, Oregon.

128. Stratigraphic and petrologic analysis of trends within the Spencer Formation sandstones from Corvallis, Benton County, to Henry Hagg Lake...

132. A revision of upper Eocene and lower Oligocene stratigraphy in the upper Nehalem River basin, northwest Oregon.


172. Miocene basalts from the western Cascade Range and the Willamette Valley.

177. Polinices pollutes the paleo-environment.

178. Stratigraphy of the middle to late Eocene formations of southwestern Willamette Valley, Oregon.

179. Biostratigraphy of the Type Yamhill Formation, Polk County, Oregon.
Stratigraphy--Continued

209. Preliminary report on the reconnaissance geology of the Upper Clackamas and North Santiam Rivers area, Cascade Range, Oregon.


208. The Western-High Cascade volcanic contact in the northwestern Cascade Range, Oregon.

252. Late-Quaternary sediments at Battle Ground Lake, southern Puget Trough, Washington.


255. Volcanic stratigraphy and alteration mineralogy of drill cuttings from EWEB 4 drill hole, Clackamas County, Oregon.

256. Volcanic stratigraphy and alteration mineralogy of drill cuttings from EWEB 3 drill hole, Clackamas County, Oregon.

257. Volcanic stratigraphy and alteration mineralogy of drill cuttings from EWEB 2 drill hole, Linn County, Oregon.

258. Volcanic stratigraphy and alteration mineralogy of drill cuttings from EWEB 1 drill hole, Linn County, Oregon.

261. Stratigraphy, lithofacies, and environment of deposition of the Scappoose Formation in central Columbia County, Oregon.

283. The petrology and stratigraphy of the Portland Hills Silt -- A Pacific Northwest Loess.


306. Field guidebook to the Quaternary stratigraphy, geomorphology and soils of the Willamette Valley, Oregon: Field trip no. 3.

305. Quaternary stratigraphy of the Willamette Valley, Oregon

312. Biostratigraphy of exploratory wells, northern Willamette Basin, Oregon.

313. Biostratigraphy of exploratory wells, southern Willamette Basin, Oregon.

310. Micropaleontological study of five wells, western Willamette Valley, Oregon.
Stratigraphy--Continued

311. Subsurface biostratigraphy of the east Nehalem Basin, Columbia County, Oregon.

316. Stratigraphic and biostratigraphic relationships of the Tyee and Yamhill Formations in central-western Oregon.

323. Mid-Tertiary transgressive rocky coast sedimentation; central western Cascade Range, Oregon.

335. Age, facies relations, and a river mouth/shelf/submarine channel depositional model for the Clifton Formation, northwestern Oregon.

334. Tectonic and paleoenvironmental significance and magnetic-geochemical stratigraphy of the Columbia River Basalt at the middle Miocene shoreline, northwestern Oregon Coast Range.

336. Upper Eocene stratigraphy of the upper Nehalem River basin.

339. Geology of the Tillamook Head; Necanicum Junction area, Clatsop County, Northwest Oregon.

345. Subsurface geology of the lower Columbia and Willamette Basins, Oregon.

346. Subsurface correlations in the Mist area, Columbia County, Oregon.

358. Mid Tertiary stratigraphy of the Oregon western Cascades.


364. Quaternary soils and geomorphology, Willamette Valley.

380. Structure and stratigraphy of a portion of the Fish Creek Mountain 15' quadrangle, Clackamas County, Oregon.

416. Stratigraphic relations of western Oregon Oligocene formations.


459. The Pittsburg Bluff Formation.

461. Revisions in the stratigraphic nomenclature of the Columbia River Basalt Group.

463. A stratigraphic-geochemical study of the Troutdale Formation and Sandy River Mudstone in the Portland Basin and lower Columbia River Gorge.
Stratigraphy--Continued

472. Structural relations of central Willamette Valley to Cascade Mountains.

475. Stratigraphy, lithofacies and depositional environments of the Cowlitz Formation, T.4 and 5 N., R.5 W., northwest Oregon.

477. Intercanyon flows of the Columbia River Basalt Group in the lower Columbia River Gorge and their relationships to the Troutdale Formation.

476. The stratigraphic relationships of the Columbia River Basalt Group in the lower Columbia River Gorge of Oregon and Washington.

503. Nonmarine lithofacies included in Scappoose Formation, Northwest Oregon.

504. Scappoose Formation, Columbia County, Oregon; new evidence of age and relation to Columbia River Basalt Group.


507. The stratigraphy and structure of the Columbia River Basalt Group in the Bull Run Watershed, Multnomah and Clackamas Counties, Oregon.


Streamflow

See Surface Water

Streams

See Surface Water

Structural Geology

2. The structure and stratigraphy of the Columbia River Basalt in the Chehalem Mountains, Oregon.


17. The stratigraphy and structure of the Columbia River Basalt in the Clackamas River drainage.

Structural Geology--Continued

40. Evidence for the Portland Hills fault.

56. Has the Washington-Oregon Coast Range moved northward?

63. The Columbia River Basalt Group in western Oregon: Geologic structures and other factors that controlled flow emplacement patterns.

61. Fault identification and structural evolution of the Portland area.

60. Portland environmental geology--Fault identification: Final technical report.


76. Tectonic setting of the southern Cascade Range as interpreted from its magnetic and gravity fields.

82. Gravity anomalies and structure of the Cascade Range in northern Oregon.

97. Mist gas field, Columbia County, Oregon.

101. The stratigraphy and structure of the Columbia River Basalt Group in the Salmon River area, Oregon.

104. Geology of the southcentral margin of the Tillamook Highlands; southwest quarter of the Enright quadrangle, Tillamook County, Oregon.

114. Regional tectonic and thermal model of the central Cascades, Oregon from magnetic data.

118. The Shukash and Lapine Basins; Pleistocene depressions in the Cascade Range of central Oregon.

175. Structural features in the Columbia River Basalt.

178. Stratigraphy of the middle to late Eocene formations of southwestern Willamette Valley, Oregon.

199. Geophysical study of north Scappoose Creek, Alder Creek, Clatskanie River Linement along the trend of the Portland Hills Fault, Columbia County, Oregon.

206. Plate tectonics and the Yamhill-Bonneville structural zone in northwestern Oregon.
Structural Geology—Continued

209. Preliminary report on the reconnaissance geology of the Upper Clackamas and North Santiam Rivers area, Cascade Range, Oregon.


208. The Western-High Cascade volcanic contact in the northwestern Cascade Range, Oregon.

249. Gravimetric investigation of the tectonics of the Portland Hills.

298. Post-Oligocene tectonic rotation of the Oregon western Cascade Range and the Klamath Mountains.

334. Tectonic and paleoenvironmental significance and magnetic-geochemical stratigraphy of the Columbia River Basalt at the middle Miocene shoreline, northwestern Oregon Coast Range.

343. Tectonic structure of the main part of the basalt of the Columbia River Group Washington, Oregon, and Idaho.

375. Gravity measurements in the central Oregon Cascades; a structural interpretation.

380. Structure and stratigraphy of a portion of the Fish Creek Mountain 15' quadrangle, Clackamas County, Oregon.

426. Geological analysis of the Portland Hills-Clackamas River alignment, Oregon.

425. Geophysical and geological analysis of a fault-like linearity in the lower Clackamas River area, Clackamas County, Oregon.

472. Structural relations of central Willamette Valley to Cascade Mountains.

505. Geological linears of the northern part of the Cascade Range, Oregon.

507. The stratigraphy and structure of the Columbia River Basalt Group in the Bull Run Watershed, Multnomah and Clackamas Counties, Oregon.

Subsurface Geology

See Stratigraphy

Surface Geology

See Areal Geology
Surface Water

16. Runoff synthesis for rain-on-snow basins.

37. The origin of Oswego Lake valley and Oswego Lake.

51. Functional evaluation of a water resources system.

54. Environmental Geology of Western Linn County, Oregon.


67. General model to simulate flow in branched estuaries.

83. Flood runoff in the Willamette Valley, Oregon.

92. A synoptic approach for analyzing erosion as a guide to land-use planning.


168. Flood profiles in the Calapooya Creek basin, Oregon.


180. Maximum midsummer surface temperatures in Oregon's Willamette Valley.

181. Radiative temperatures in the Willamette Valley.

204. Perched water tables on hillsides in western Oregon: I. Some factors affecting their development and longevity.

214. The effects of two multipurpose reservoirs on the water temperature of the McKenzie River, Oregon.

217. Some characteristics and consequences of snowmelt during rainfall in western Oregon.

264. Indications of streambed degradation in the Willamette Valley.

266. Streambank erosion protection and channel scour manipulation using rockfill dikes and gabions.

269. Storm runoff as related to urbanization in the Portland, Oregon-Vancouver, Washington.

273. Relationship of the nature of suspended clay minerals to hydrologic conditions.
Surface Water--Continued

282. Appraisal of waterpower potential and land classifications, Clackamas River basin, Oregon.

289. Overland flow from sloping land: Effects of perched water tables and subsurface drains.

291. Geology and hydrology of the Lost Creek glacial trough.

356. Irrigation water supply study for the Red Prairie Irrigation District, Polk and Yamhill Counties, Oregon.

399. A synoptic survey of trace metals in bottom sediments of the Willamette River.

432. Reservoir-system model for the Willamette River basin, Oregon.

433. A multiple-storage model for simulating uniform streamflow.

442. Lower Willamette River management plan.

450. Ash Creek watershed, Polk County, preliminary investigation.

453. Ash Creek RC & D measure work plan for flood prevention.

454. Ash Creek RC & D project, Polk County, Oregon; environmental assessment.

449. Little Luckiamute River watershed work plan: A review draft.

452. Little Luckiamute River watershed, draft environmental statement.

447. Lower Willamette River basin.

446. Middle Willamette River basin.


483. Willamette River basin Reservoir System Operation.

506. Photomosaic base map of the Willamette River basin, Oregon: A tool for land use and water-resource planning.

517. Land and water use in Oregon.


534. Willamette Basin comprehensive study of water and related land resources: Appendix B--Hydrology.

535. Willamette Basin comprehensive study of water and related land resources: Appendix E--Flood Control.
Surface Water--Continued

536. Willamette Basin comprehensive study of water and related land resources: Appendix A--Study Area.

538. Willamette Basin comprehensive study of water and related land resources: Appendix H--Municipal and Industrial Water Supply.

540. Willamette Basin comprehensive study of water and related land resources: Appendix J--Power

541. Willamette Basin comprehensive study of water and related land resources: Appendix F--Irrigation

Surface-Water Data

134. Water discharge determinations for the tidal reach on the Willamette River from Ross Island Bridge to Mile 10.3, Portland, Oregon.


221. Floods of January 10-23, 1972, in western Oregon.

222. Use of dye tracers to collect hydrologic data in Oregon.


294. Evaluation of the streamflow-data program in Oregon.


357. Discharge in the lower Columbia River basin, 1928-65.

361. Patterns of runoff in the Willamette Basin, Oregon.

431. Surface water records and precipitation records of Oregon; 1978 water year.

451. Regionalized flood frequency data for Oregon


464. Bibliography of available ground-water information in Oregon.

Surface-Water Surveys

24. Flood plain information: Willamette River and Tributaries in Marion and Polk Counties, Oregon

25. Flood plain information: Willamette River, Johnson, Kellogg, and Mt. Scott Creeks, Milwaukie-Oak Grove-Lake Oswego, Oregon


27. Flood plain information: Willamette River, Chehalem Creek, Newberg, Oregon.


31. Flood plain information: South Santiam River, Lebanon, Oregon.

106. Ground-water management and development plan: Report prepared for Clark County Public Utility District.

107. Potential flood damages, Willamette River system, Section II.

108. Potential flood Damages, Willamette River system, Section I.

134. Water discharge determinations for the tidal reach on the Willamette River from Ross Island Bridge to Mile 10.3, Portland, Oregon.


198. Water resources of the Portland, Oregon, Vancouver, Washington area.

223. Magnitude and frequency of floods in western Oregon.

219. Travel rates of water for selected streams in the Willamette River basin, Oregon.

220. Willamette River at Lambert Bend, Oregon: Flood flow characteristics of the proposed Greenacres Road crossing.

246. Effect of subsurface drainage on runoff and sediment yield from an agricultural watershed in western Oregon.

270. Storm runoff as related to urbanization based on data collected in Salem, and Portland, and generalized for the Willamette Valley, Oregon.

279. Oregon State interest and viewpoint in river basin planning in the Willamette Comprehensive Study.
Surface-Water Surveys--Continued

292. Influence of landslides, floods, and land use on channel changes of the upper Middle Fork Willamette River, Oregon.

293. Land use, floods, and channel changes: upper Middle Fork Willamette River, Oregon (1936-1980).


331. Correlation and Analysis of water-temperature data for Oregon streams.

357. Discharge in the lower Columbia River basin, 1928-65.

361. Patterns of runoff in the Willamette Basin, Oregon.

430. Importance of streamside forests to large rivers: The isolation of the Willamette River, Oregon, U.S.A., from its floodplain by snagging and streamside forest removal.


466. Selected flow characteristics of streams in the Willamette River basin, Oregon.

478. Watershed and climate influences on flood frequency distributions in the Willamette River basin.

484. Willamette River basin Oregon, USDA Interim Report; A contribution to the Willamette River basin Comprehensive Survey.

Surface-Water Quality

20. A general linear approach to stream water quality modeling.


34. Explore-I: A river basin water quality model.

49. Region X environmental monitoring requirements and applications.

50. Nonlinear programming in river basin modeling.

71. Long-term patterns of sediment production following road construction and logging in the Oregon Coast Range.

72. Sediment and organic matter transport in Oregon Coast Range streams.
Surface-Water Quality--Continued

73. Water quantity and quality studies of Vancouver Lake, Washington.

77. Use of cooling reactor water from nuclear power plants for irrigation of agricultural crops.

84. Water quality impacts of biochemical oxygen demand under transferable discharge permit programs.

91. Erosion potential assessment for the Willamette River basin, Oregon River-quality assessments.


100. Occurrence of hexachlorophene and pentachlorophenol in sewage and water.

102. Systems analysis for water quality management.


125. Environmental quality, the fourth annual report of the Council on Environmental Quality.

141. Effect of an industrial ammonia discharge on the dissolved oxygen regime of the Willamette River, Oregon.

140. A geographically variable water quality index used in Oregon.

147. Cost efficiency of time-varying discharge permit programs for water quality management.


152. Willamette River basin water quality control and management.

167. Effectiveness of river models.

171. Efficiency in water quality control for the Willamette River.

174. Analyses of elutriates, native water, and bottom material in selected rivers and estuaries in western Oregon and Washington.

173. Quality of bottom material and elutriates in the lower Willamette River, Portland Harbor, Oregon.
185. The return of a River: The Willamette River, Oregon.

197. River-quality assessments.

196. River-quality Assessments.

200. Potential health hazards associated with the disposal of sewage sludge on agricultural soils in western Oregon.


230. Energy analysis of regional water pollution control.

233. Herbicides in runoff from agricultural watersheds in a high-winter-rainfall zone.


240. Restoring the Willamette River: Costs and impacts of water quality control.

241. Longitudinal changes in fish assemblages and water quality in the Willamette River, Oregon.

246. Effect of subsurface drainage on runoff and sediment yield from an agricultural watershed in western Oregon.

263. Some effects of the May 18 eruption of Mount St. Helens on river-water quality; The 1980 eruptions of Mount St. Helens, Washington.

265. Willamette River sediment management possibilities: Phase I -- Problem clarification.

271. Preliminary study using digital modeling techniques to understand and predict the temperature regime in a stream below a major reservoir--The North Santiam River below Detroit Dam, Oregon.

277. Lane County preliminary general plan-water quality report.

278. Lane County preliminary general plan-water quality management plan.

280. Turbidity-induced meromixis in an Oregon reservoir; hypothesis.

286. Changes in large organic debris in forested streams, western Oregon.

125
Surface-Water Quality--Continued

288. Hydrospheric trace elements and their application in tracing water pollutants.


303. Evaluation of selected one-dimensional stream water-quality models with field data.

314. Analysis of bottom material from the Willamette River, Portland Harbor, Oregon.

315. Steady-state dissolved oxygen model of the Willamette River, Oregon.

328. Analysis of street sweepings, Portland, Oregon.

327. Analysis of urban storm-water quality from seven basins near Portland, Oregon.

326. Appraisal of storm-water quality near Salem, Oregon.

324. Basic data on urban storm-water quality, Portland, Oregon.

325. Data on urban storm-water quality, Portland, Oregon.

331. Correlation and Analysis of water-temperature data for Oregon streams.


340. Cleaning up the Willamette.

370. Algal growth potential--lower Willamette River, Oregon.

378. Willamette Cleanup.

379. Water quality in the lower Willamette.

390. Linear programming applied to water quality management.

400. Algal conditions and the potential for future algal problems in the Willamette River, Oregon.

398. Methodology for river-quality assessment with application to the Willamette River basin, Oregon.

396. Planning implications of dissolved oxygen depletion in the Willamette River, Oregon.

Surface-Water Quality--Continued

397. Project development and data programs for assessing the quality of the Willamette River, Oregon.

395. River quality assessment: Implications of a prototype project.

392. River quality assessment: The basis for management decisions.


393. Use of dissolved oxygen modeling results in the management of river quality.

402. Dissolved-oxygen and algal conditions in selected locations of the Willamette River basin, Oregon.


403. Elutriation study of Willamette River bottom material and Willamette--Columbia River water.

404. Monitoring water-quality during pilot dredging in the Willamette and Columbia Rivers, Oregon.

409. Water quality and the migration of fall salmon in the lower Willamette River.

410. Water quality: Western Fish Toxicology Station and western Oregon rivers.

411. Quality of surface waters in the lower Columbia River basin.

415. Physicochemical and biological characteristics of Hills Creek reservoir.


444. A river restored: Oregon’s Willamette.

458. Systems analysis.

516. Water and environmental quality.

524. Analyses of trace metals associated with bottom material and biological communities in Salmon Creek basin, Clark County, Washington.

527. Correspondence between ecoregions and spatial patterns in stream ecosystems in Oregon.
Surface-Water Quality--Continued

532. Willamette Basin comprehensive study of water and related land resources: Appendix L--Water Pollution Control.

548. Surface eroded non-point source pollutants entering selected upper Willamette River tributaries from agricultural lands.

Tectonics


38. Early Tertiary sedimentary and tectonic history of the southern Coast Range, Oregon.

56. Has the Washington-Oregon Coast Range moved northward?

63. The Columbia River Basalt Group in western Oregon: Geologic structures and other factors that controlled flow emplacement patterns.

59. Regional correlations within the Frenchman Springs Member of the Columbia River Basalt Group: New insights into the Middle Miocene tectonics of northwestern Oregon.

68. Preliminary tectonic map of the greater Portland area.


75. Heat flow, arc volcanism, and subduction in northern Oregon.

76. Tectonic setting of the southern Cascade Range as interpreted from its magnetic and gravity fields.

82. Gravity anomalies and structure of the Cascade Range in northern Oregon.


114. Regional tectonic and thermal model of the central Cascades, Oregon from magnetic data.

118. The Shukash and Lapine Basins; Pleistocene depressions in the Cascade Range of central Oregon.

199. Geophysical study of north Scappoose Creek, Alder Creek, Clatskanie River Linement along the trend of the Portland Hills Fault, Columbia County, Oregon.

206. Plate tectonics and the Yamhill-Bonneville structural zone in northwestern Oregon.
Tectonics--Continued

208. The Western-High Cascade volcanic contact in the northwestern Cascade Range, Oregon.

242. Geochemistry, petrogenesis, and tectonic implications of central High Cascade mafic platform lavas.

249. Gravimetric investigation of the tectonics of the Portland Hills.

254. Cenozoic active margin and shallow Cascade structure: COCORP results from western Oregon.

298. Post-Oligocene tectonic rotation of the Oregon western Cascade Range and the Klamath Mountains.

301. Volcanic evolution of the Cascade Range.

334. Tectonic and paleoenvironmental significance and magnetic-geochemical stratigraphy of the Columbia River Basalt at the middle Miocene shoreline, northwestern Oregon Coast Range.

343. Tectonic structure of the main part of the basalt of the Columbia River Group Washington, Oregon, and Idaho.

436. Interpretation of long-line time-domain electromagnetic data from northwestern United States.

505. Geological linears of the northern part of the Cascade Range, Oregon.

510. Results of a magnetotelluric traverse across western Oregon; crustal resistivity structure and the subduction of the Juan de Fuca Plate

526. Some quantitative aspects of orogenic volcanism in the Oregon Cascades

Tillamook County

104. Geology of the southcentral margin of the Tillamook Highlands; southwest quarter of the Enright quadrangle, Tillamook County, Oregon.

Tillamook County--Continued

443. Appraisal of waterpower and reservoir sites, Nestucca River basin, Oregon

Urban Hydrology

65. Geologic hazards of eastern Benton County, Oregon.

90. Problems of utilizing ground water in the west-side business district of Portland, Oregon.
Urban Hydrology--Continued

106. Ground-water management and development plan: Report prepared for Clark County Public Utility District.

133. People and water.

188. The unusual and widespread occurrence of arsenic in well waters of Lane County, Oregon.

238. Geology of the Portland well field.

237. Hydrogeology of the Portland Basin.

239. Ground water in the east Portland area, Oregon.

269. Storm runoff as related to urbanization in the Portland, Oregon-Vancouver, Washington.

270. Storm runoff as related to urbanization based on data collected in Salem, and Portland, and generalized for the Willamette Valley, Oregon.

328. Analysis of street sweepings, Portland, Oregon.

324. Basic data on urban storm-water quality, Portland, Oregon.

458. Systems analysis.

544. Ground water exploratory program.

545. Pilot well study.

Volcanology

10. The Catlin Gabel lava tubes of West Portland; remnants of a Pliocene-Pleistocene cave system.

8. Volcanoes of the Portland area, Oregon.

58. A model for the geologic history of Mount Tabor, Kelly Butte, and Powell Butte in southeast Portland.

75. Heat flow, arc volcanism, and subduction in northern Oregon.

82. Gravity anomalies and structure of the Cascade Range in northern Oregon.

105. Post-glacial lahars of the Sandy River basin, Mount Hood, Oregon.

114. Regional tectonic and thermal model of the central Cascades, Oregon from magnetic data.
Volcanology--Continued

118. The Shukash and Lapine Basins; Pleistocene depressions in the Cascade Range of central Oregon.


208. The Western-High Cascade volcanic contact in the northwestern Cascade Range, Oregon.

229. Welded tuff along the Row River, western Oregon.

255. Volcanic stratigraphy and alteration mineralogy of drill cuttings from EWEB 4 drill hole, Clackamas County, Oregon.

256. Volcanic stratigraphy and alteration mineralogy of drill cuttings from EWEB 3 drill hole, Clackamas County, Oregon.

257. Volcanic stratigraphy and alteration mineralogy of drill cuttings from EWEB 2 drill hole, Linn County, Oregon.

258. Volcanic stratigraphy and alteration mineralogy of drill cuttings from EWEB 1 drill hole, Linn County, Oregon.


287. Structures, textures, and cooling histories of Columbia River Basalt flows.

291. Geology and hydrology of the Lost Creek glacial trough.


304. Base surge deposits in the western Cascades, Oregon.

339. Geology of the Tillamook Head; Necanicum Junction area, Clatsop County, Northwest Oregon.

470. Field geology of S.W. Broken Top quadrangle, Oregon.

471. Geologic map of the Three Sisters Wilderness, Deschutes, Lane, and Linn Counties, Oregon.

525. Geology and geochemistry of volcanic rocks in the Detroit area, western Cascade Range, Oregon.

526. Some quantitative aspects of orogenic volcanism in the Oregon Cascades.
Washington County


64. Geologic map of the Lake Oswego quadrangle, Clackamas, Multnomah, and Washington Counties, Oregon.

128. Stratigraphic and petrologic analysis of trends within the Spencer Formation sandstones from Corvallis, Benton County, to Henry Hagg Lake...

132. A revision of upper Eocene and lower Oligocene stratigraphy in the upper Nehalem River basin, northwest Oregon.

163. Ground water in the Newberg area, northern Willamette Valley, Oregon.

194. Soil survey of Washington County, Oregon.

225. Geology and ground water of the Tualatin Valley, Oregon.

336. Upper Eocene stratigraphy of the upper Nehalem River basin.

338. A seismic refraction study of a portion of the northeastern margin of the Tualatin Valley, Oregon.


422. Engineering geology of the Tualatin Valley region, Oregon.


494. Land use and land cover and associated maps for Vancouver, Oregon, Washington.


515. Geology of northwestern Oregon west of Willamette River and north of latitude 45 degrees, 15 minutes.

Water Budget

See Ground Water; Surface Water

Water Conservation

See Water Use

Water Quality

331. Correlation and Analysis of water-temperature data for Oregon streams.
Clackamas County

146. Johnson Creek water-quality assessment.


381. Records of wells, water levels, and chemical quality of the ground water in the French Prairie - Mission Bottom area, northern Willamette Valley, Oregon.

Clark County

73. Water quantity and quality studies of Vancouver Lake, Washington.

142. The quality of water in the principal aquifers of southwestern Washington.

174. Analyses of elutriates, native water, and bottom material in selected rivers and estuaries in western Oregon and Washington.

263. Some effects of the May 18 eruption of Mount St. Helens on river-water quality; The 1980 eruptions of Mount St. Helens, Washington.

Lane County

137. Ground-water study of the Santa Clara-River Road area, Eugene, Oregon.

188. The unusual and widespread occurrence of arsenic in well waters of Lane County, Oregon.

277. Lane County preliminary general plan-water quality report.

278. Lane County preliminary general plan-water quality management plan.

280. Turbidity-induced meromixis in an Oregon reservoir; hypothesis.

415. Physicochemical and biological characteristics of Hills Creek reservoir.

Linn County

232. Ground-water resources of the lower Santiam River basin, middle Willamette Valley, Oregon.

231. Records of wells, water levels, and chemical quality of water in the lower Santiam River basin, middle Willamette Valley, Oregon.
Marion County

212. Records of wells, water levels, and chemical quality of ground water in the Molalla-Salem, Slope area, northern Willamette Valley, Oregon.

326. Appraisal of storm-water quality near Salem, Oregon.

381. Records of wells, water levels, and chemical quality of the ground water in the French Prairie - Mission Bottom area, northern Willamette Valley, Oregon.

Multnomah County


129. Interim status report, Ground-water monitoring project, Pretreatment plant surface impoundment, Boeing of Portland, Facility.

146. Johnson Creek water-quality assessment.

158. Records of wells and springs, water levels, and chemical quality of ground water in the east Portland area, Oregon.

173. Quality of bottom material and elutriates in the lower Willamette River, Portland Harbor, Oregon.


328. Analysis of street sweepings, Portland, Oregon.

327. Analysis of urban storm-water quality from seven basins near Portland, Oregon.

325. Data on urban storm-water quality, Portland, Oregon.


388. Subsurface sewage disposal and contamination of ground water in east Portland, Oregon.

Multnomah County--Continued

403. Elutriation study of Willamette River bottom material and Willamette--Columbia River water.

404. Monitoring water-quality during pilot dredging in the Willamette and Columbia Rivers, Oregon.

409. Water quality and the migration of fall salmon in the lower Willamette River.

469. Water quality within east Portland terraces.

Water Supply

See Water Use

Water Use

77. Use of cooling reactor water from nuclear power plants for irrigation of agricultural crops.

84. Water quality impacts of biochemical oxygen demand under transferable discharge permit programs.

88. Decision making in water resource allocation.

90. Problems of utilizing ground water in the west-side business district of Portland, Oregon.

106. Ground-water management and development plan: Report prepared for Clark County Public Utility District.

133. People and water.

147. Cost efficiency of time-varying discharge permit programs for water quality management.

279. Oregon State interest and viewpoint in river basin planning in the Willamette Comprehensive Study.

277. Lane County preliminary general plan-water quality report.

278. Lane County preliminary general plan-water quality management plan.

347. City of Vancouver ground water source and use study, Volume I - Summary.

356. Irrigation water supply study for the Red Prairie Irrigation District, Polk and Yamhill Counties, Oregon.

354. Oregon's long-range requirements for water.

355. Oregon's long-range requirements for water: General soil map report with irrigable areas, Willamette Drainage Basin.

135
<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>372.</td>
<td>Water for Oregon.</td>
</tr>
<tr>
<td>374.</td>
<td>Ground-water resources of the Willamette Valley, Oregon.</td>
</tr>
<tr>
<td>442.</td>
<td>Lower Willamette River management plan.</td>
</tr>
<tr>
<td>443.</td>
<td>Appraisal of waterpower and reservoir sites, Nestucca River basin, Oregon.</td>
</tr>
<tr>
<td>447.</td>
<td>Lower Willamette River basin.</td>
</tr>
<tr>
<td>446.</td>
<td>Middle Willamette River basin.</td>
</tr>
<tr>
<td>455.</td>
<td>Red Prairie irrigation district, Polk and Yamhill Counties, Oregon, an irrigation water supply study.</td>
</tr>
<tr>
<td>483.</td>
<td>Willamette River basin reservoir system operation.</td>
</tr>
<tr>
<td>487.</td>
<td>Oregon engineering handbook; irrigation guide.</td>
</tr>
<tr>
<td>517.</td>
<td>Land and water use in Oregon.</td>
</tr>
<tr>
<td>529.</td>
<td>Willamette Basin comprehensive study of water and related land resources: Appendix C--Economic Base.</td>
</tr>
<tr>
<td>531.</td>
<td>Willamette Basin comprehensive study of water and related land resources: Appendix K--Recreation.</td>
</tr>
<tr>
<td>532.</td>
<td>Willamette Basin comprehensive study of water and related land resources: Appendix L--Water Pollution Control.</td>
</tr>
<tr>
<td>533.</td>
<td>Willamette Basin comprehensive study of water and related land resources: Main Report.</td>
</tr>
<tr>
<td>534.</td>
<td>Willamette Basin comprehensive study of water and related land resources: Appendix B--Hydrology.</td>
</tr>
<tr>
<td>536.</td>
<td>Willamette Basin comprehensive study of water and related land resources: Appendix A--Study area.</td>
</tr>
<tr>
<td>538.</td>
<td>Willamette Basin comprehensive study of water and related land resources: Appendix H--Municipal and industrial water supply.</td>
</tr>
</tbody>
</table>
Water Use--Continued

541. Willamette Basin comprehensive study of water and related land resources: Appendix F--Irrigation.

542. Willamette Basin comprehensive water and related land resources study, Oregon (Draft Environmental Impact Statement).

Watersheds

See Surface Water

Yamhill County


27. Flood plain information: Willamette River, Chehalem Creek, Newberg, Oregon.


89. The geology of the McMinnville quadrangle, Oregon.

94. Geologic map of the Grand Ronde quadrangle, Polk and Yamhill Counties, Oregon.

95. Preliminary geologic map of the Amity and Mission Bottom quadrangles, Oregon.

96. Preliminary geologic map of the McMinnville and Dayton quadrangles, Oregon.

93. Preliminary geologic map of the Ballston quadrangle.

128. Stratigraphic and petrologic analysis of trends within the Spencer Formation sandstones from Corvallis, Benton County, to Henry Hagg Lake...

163. Ground water in the Newberg area, northern Willamette Valley, Oregon.

206. Plate tectonics and the Yamhill-Bonneville structural zone in northwestern Oregon.

356. Irrigation water supply study for the Red Prairie Irrigation District, Polk and Yamhill Counties, Oregon.


384. Selected ground water data in the Eola-Amity hills area, northern Willamette Valley, Oregon.
Yamhill County--Continued

419. The occurrence of Spencer Sandstone in the Yamhill Quadrangle, Oregon.

455. Red Prairie irrigation district, Polk and Yamhill Counties, Oregon, an irrigation water supply study.

494. Land use and land cover and associated maps for Vancouver, Oregon, Washington.

513. Geologic map of the Salem one degree by two degree sheet.

515. Geology of northwestern Oregon west of Willamette River and north of latitude 45 degrees, 15 minutes.