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Publications of the Washington Geological Survey

July 2024



WASHINGTON STATE DEPT OF
**NATURAL
RESOURCES**
WASHINGTON
GEOLOGICAL SURVEY

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■ FEATURED PRODUCTS ■

Washington State Geology News

The Survey now has a blog, called the Washington State Geology News, where we share current events within the Survey, preliminary research findings, exciting geology photography, and recent publication announcements. Once there you can subscribe to receive new blog posts automatically. [[ONLINE](#)]

Washington Geologic Information Portal

The portal allows you to access interactive earth science mapping, data, and related information. Using our interactive maps, you can create, save, and print custom maps, find out more about map features, and download map data for use in a geographic information system (GIS). In addition to a variety of geoscience layers that can be turned on and off, each interactive map has many base layers to choose from, so you can customize your map in any number of ways. [[ONLINE](#)]

Catalog of the Washington Geology Library

Looking for an obscure geologic report? This searchable database of library holdings will help you find it. The Washington Geology library contains more than 40,000 titles on the geology of Washington State, more than 3000 current and historic topographic and geologic maps, a comprehensive set of dissertations and theses, environmental impact statements and watershed analyses, and the National Tsunami Hazard Mitigation Program library collection. There are links to online publications where available. [[ONLINE](#)]

1:100,000-, 1:250,000-, and 1:500,000-scale Geologic Maps of Washington State

All of our geologic maps are now available through our website on our [Publications and Maps](#) page. Scroll down and click on “Geologic Maps”. The maps can also be found on a page-size color map that shows published geologic mapping of 30- by 60-minute topographic quadrangles in Washington State from all sources, as well as quadrant and whole state maps. Attached text lists quads alphabetically and by author, with links to online publications. [[ONLINE](#)]

1:24,000-scale (7.5-minute) Geologic Maps of Washington State

All of our geologic maps are now available through our website on our [Publications and Maps](#) page. Scroll down and click on “Geologic Maps”. The maps can also be found on a page-size color map that shows published geologic mapping of 7.5-minute topographic quadrangles in Washington State from all sources. Attached text lists quads alphabetically and by author, with links to online publications. [[ONLINE](#)]

Geoscience GIS Data

A variety of geographic information system (GIS) data is available on our website in ESRI shapefile format, including geologic coverage of the entire state of Washington at scales of 1:24,000, 1:100,000, 1:250,000, and 1:500,000. [[ONLINE](#)]

TsuInfo Alert

TsuInfo Alert is a bi-monthly newsletter that links scientists, emergency responders, and community planners to the latest tsunami research. It is published by WGS for the [National Tsunami Hazard Mitigation Program](#), a state/federal partnership funded through the National Oceanic and Atmospheric Administration. It is made possible by a grant from the Federal Emergency Management Agency via the Washington Military Department Emergency Management Division. [[ONLINE](#)]

Coal Mine Map Collection

Coal has been mined in Washington since 1853. Although current production is from surface mines, nearly all coal produced prior to about 1970 came from underground workings. Since early in this century, Washington State law has required mine operators to submit detailed plans of all underground coal operations to the state on an annual basis. About 1,100 individual maps representing about 230 mines have been scanned and are available electronically. [[ONLINE](#)]

■ HOW TO OBTAIN PUBLICATIONS ■

Publications are listed by series. This document is searchable using the Acrobat search function. Online publications are indicated by a hyperlink [ONLINE] at the end of the publication description. Where possible, larger files have been broken into parts for ease of downloading [PART 1] [PART 2]. For unusual cases, we have tried to make the link name descriptive enough to distinguish between files. If you need a hard copy of a large-format report, such as a map, and do not have access to a plotter, your local copy center may be able to print it out. Reports marked "Lib. use only" may be viewed in the Survey library in Olympia. All new Survey reports and maps are announced on our website.

PRINTED PUBLICATIONS

Our publications are no longer for sale as printed documents through the Department of Enterprise Services, but they are available online. If you can't find what you are looking for in this publications list, search our online library catalog at: <http://www.dnr.wa.gov/programs-and-services/geology/washington-geology-library>. Printed items are sometimes returned to the Survey and are made available 'first-come, first-served'. Availability changes often; e-mail stephanie.earls@dnr.wa.gov for current availability.

■ CONTACT US ■

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Visitors may enter the Natural Resources Building parking lot using the Washington Street entrance. Visitor parking (VP) is on level P1. Follow the signs. There is a fee for parking.

The Survey is across the Rotunda, past the four elevators, on the north side of first floor. See the building directory in the lobby. Sign in at the Information Desk in the Rotunda to get a visitor's pass.

Staff List

The [Survey Staff List](#) has contact information for individual staff.



Bulletin

The subject matter of a Bulletin is of widespread interest in the geologic community and the subject matter is treated thoroughly and in a well-organized, scholarly manner. Bulletins are usually written for geologic audiences. Bulletins are peer reviewed and edited to Survey/USGS/major journal standards.

Geologic Map (GM) and Map Series (MS)

Geologic Maps (GMs) and Map Series (MS) publications are geological, geophysical, or derivative maps, with text on the map or in an accompanying pamphlets. The maps are the chief vehicles of communication. They are usually the result of original field investigations or extensive compilation and re-presentation of data in map form. Geologic Maps are peer reviewed and edited to Survey/USGS/major journal standards. Map Series are not peer reviewed, but are still edited to conform to Survey/USGS/major journal standards.

Report of Investigations (RI)

A Report of Investigations (RI) conveys the results of significant field investigations, usually by a Survey staff geologist. It may contain a map or maps larger than page size, but the report is chiefly text and page-sized figures and tables. It is usually shorter than a Bulletin and narrower in scope and more restricted in geographic coverage. It is still a thorough and often scholarly presentation that conveys important information and is complete and able to stand on its own. RIs are usually written for a geologic audience. They are peer reviewed and edited to Survey/USGS/major journal standards.

Information Circular (IC)

An Information Circular (IC) is a vehicle for all types of geologic or geology-related information, usually in 8½ x 11 in. format. Original field work may be involved but often is not. Instead, the report is usually a compilation of data or historical records, assembled because the information has geologic significance, is needed by a large number of people, or is otherwise unavailable in convenient form. An IC is sometimes written for a geologic audience, but is more often written to be useful to geologists and understandable to the general public. ICs have been catalogs (earthquake hypocenters, oil and gas exploration wells, mining operations, map indexes, theses), road logs, or reports on particular areas. An IC is edited to Survey/USGS/major journal standards, but is not always peer reviewed.

Topographic Map (TM)

The only Topographic Maps (TM) issued to date are the 1:250,000 topographic maps prepared by the Survey to serve as base maps for the southwest, northeast, and southeast quadrants of the state geologic map (GM-34, GM-39, and GM-45).

Digital Data Series (DS)

Digital Data Series (DS) present geologic data in GIS file geodatabase format. The data are available online and intended to be used interactively (that is, the data can be analyzed, displayed, or otherwise manipulated to meet the user's needs). The datasets may be updated from time to time, will not exist on paper, and are not archived; that is, when the data is updated, no copy of the previous version is kept. For DSs, there are specific hardware/software/expertise requirements. Updates are identified by a version number, typically the date. For some Digital Reports, requesters may be asked to execute a product license agreement. Digital Data Series are usually edited for conformance to Survey digital data standards.

Digital Report (DR)

Digital Reports (DR) present large data sets in electronic form. The reports are available online and intended to be used interactively (that is, the data can be sorted, subdivided, or otherwise manipulated to meet the user's needs). The reports may be updated from time to time, may not exist on paper, and are not archived; that is, when the report is updated, no copy of the previous version is kept. For some DRs, there are specific hardware/software/expertise requirements. Updates are identified by a version number, typically the date (for example, DR-1, ver. 8/26/1998). For some Digital Reports, requesters may be asked to execute a product license agreement. Digital Reports are usually not edited or peer reviewed in the usual sense. Instead they are prepared with due care and then modified or corrected as authors and (or) users find problems or errors.

Open File Report (OFR)

An Open File Report (OFR) is a body of geologic or geology-related information in map and (or) text form that is significant enough to make available to the public, but, for one reason or another, has not been prepared and released as a Bulletin, GM, RI, or IC. These reasons include: (1) the report is preliminary, (2) the report must be released quickly, (3) the report was never intended for publication, perhaps because very few copies will be needed, (4) the report is informal or doesn't lend itself to one of the formal report series, or (5) people, money, and (or) time are not available to prepare a Bulletin, GM, RI, or IC. OFRs may or may not be peer reviewed and (or) edited to Survey/USGS/major journal standards.

Field Trip Guide (FTG)

A Field Trip Guide (FTG) is just what it says it is—a field trip guide. FTGs may or may not be peer reviewed and (or) edited to Survey/USGS/major journal standards.

GeMS Geodatabase

The Geologic Map Schema (GeMS) is a standard geospatial coding system for geologic map data. Our GeMS data are distributed as .zip files that contain a geodatabase (.gdb), supporting metadata, and a copy of the associated geologic map. These data can be loaded in a program like ArcGIS or QGIS, allowing a user to create custom maps and perform geospatial analysis with geologic data.

■ ANNUAL REPORTS ■

Annual Reports are available online only.

Washington State Geologist

Mines and minerals of Washington—Annual report of George A. Bethune, first State Geologist, 1890, by G. A. Bethune. 1891. 122 p. [[ONLINE](#)]

Out of print

Mines and minerals of Washington—Second annual report of George A. Bethune, State Geologist, by G. A. Bethune. 1892. 186 p. [[ONLINE](#)]

Out of print

Washington Mining Bureau

First annual report of the Mining Bureau of the State of Washington, from April 1, 1891 to April 1, 1892. 1892. 46 p., 5 pl. [[ONLINE](#)]

Out of print

Washington Geological Survey

Annual Report for 1901; Volume I. 1902. 344 p. [[PARTS I-II](#)] [[PARTS III-VI](#)]

Out of print

The chapters are also available separately:

Part I. Creation of a state geological survey, and, An outline of the geology of Washington, by Henry Landes. 1902. 35 p., 5 pl. [[ONLINE](#)]

Out of print

Part II. The metalliferous resources of Washington, except iron, by Henry Landes, W. S. Thyng, D. A. Lyon, and Milnor Roberts. 1902. 123 p., 4 pl. [[ONLINE](#)]

Out of print

Part III. The non-metalliferous resources of Washington, except coal, by Henry Landes. 1902. 55 p., 11 pl. [[ONLINE](#)]

Out of print

Part IV. The iron ores of Washington, by Solon Shedd, and, The coal deposits of Washington, by Henry Landes. 1902. 67 p., 13 pl. [[ONLINE](#)]

Out of print

Part V. The water resources of Washington—Potable and mineral water, by H. G. Byers; Artesian water, by C. A. Ruddy; and, Water power, by R. E. Heine. 1902. 37 p., 7 pl. [[ONLINE](#)]

Out of print

Part VI. Bibliography of the literature referring to the geology of Washington, by Ralph Arnold. 1902. 16 p. [[ONLINE](#)]

Out of print

Annual report for 1902; Volume II. 1903. 277 p., 23 pl. (Contains: Part I. The building and ornamental stones of Washington, by Solon Shedd [[ONLINE](#)]; Part II. Coal deposits of Washington, by Henry Landes and C. A. Ruddy [[ONLINE](#)])

Out of print

The biennial report of the Board of Geological Survey of the State of Washington for the term 1901-1903. 1903. 7 p. [[ONLINE](#)]

Out of print

The biennial report of the Board of Geological Survey of the State of Washington for the term 1909-11. 1910. 24 p. 1 pl. [[ONLINE](#)]

Out of print

The biennial report of the Board of Geological Survey of the State of Washington for the term 1911-13. 1913. 24 p. 3 pl. [[ONLINE](#)]

Out of print

The biennial report of the Board of Geological Survey of the State of Washington for the term 1913-1915. 1915. 31 p. 3 pl. [[ONLINE](#)]

Out of print

The biennial report of the Board of Geological Survey of the State of Washington for the term 1915-1917. 1917. 29 p. 3 pl. [[ONLINE](#)]

Out of print

The biennial report of the Board of Geological Survey of the State of Washington for the term 1917-1919. 1919. 26 p. 3 pl. [[ONLINE](#)]

Out of print

The biennial report of the Board of Geological Survey of the State of Washington for the term 1919-1921. 1921. 29 p. [[ONLINE](#)]

Out of print

Department of Conservation and Development¹

Report of the Supervisor of Geology, Department of Conservation and Development, from April 1, 1921, to September 30, 1922, by Solon Shedd. 1922. 9 p. [[ONLINE](#)]

Out of print

Report of the Supervisor of Geology, Department of Conservation and Development, from October 1, 1922, to September 30, 1924, by Solon Shedd. 1924. 12 p. 1 pl. [[ONLINE](#)]

Out of print

Third biennial report of the Department of Conservation and Development from April 1, 1925, to September 30, 1926, by E. J. Barnes. 1927. 93 p. 2 pl. [[ONLINE](#)]

Out of print

Fourth biennial report of the Department of Conservation and Development from October 1, 1926, to September 30, 1928, by E. J. Barnes. 1928. 75 p. 2 pl. [[ONLINE](#)]

Out of print

Seventh biennial report of the Department of Conservation and Development from October 1, 1932, to September 30, 1934, by E. F. Banker. 1935. 57 p. [[ONLINE](#)]

Out of print

Biennial report of Division of Geology—April 1, 1933, to November 30, 1934, by H. E. Culver. 1935. 14 p. [[ONLINE](#)]

Out of print

Eighth biennial report of the Department of Conservation and Development—October 1, 1934, to September 30, 1936, by J. B. Fink. 1937. 68 p. [[ONLINE](#)]

Out of print

First biennial report of the Division of Mines and Mining, June 1, 1935, to December 31, 1936, by T. B. Hill. 1937. 6 p. [[ONLINE](#)]

Out of print

Summary report of major activities, Division of Geology, for the biennium 1935-37, by H. E. Culver. 1936. 7 p. [[ONLINE](#)]

Out of print

Ninth biennial report of the Department of Conservation and Development—October 1, 1936—September 30, 1938, by J. B. Fink. 1939. 115 p. [[ONLINE](#)]

Out of print

[Second biennial report of the] Division of Mines and Mining, January 1, 1937, to December 31, 1938, by T. B. Hill. 1939. 17 p. [[ONLINE](#)]

Out of print

Tenth biennial report of the Department of Conservation and Development, October 1, 1938—September 30, 1940, by J. B. Fink. 1941. 150 p. [[ONLINE](#)]

Out of print

Third biennial report of the Division of Mines and Mining for the period commencing January 1, 1939 and ending January 1, 1941, by T. B. Hill. 1941. [[ONLINE](#)]

Out of print

Eleventh biennial report of the Department of Conservation and Development—October 1, 1940—September 30, 1942, by Ed Davis. 1943. 54 p. [[ONLINE](#)]

Out of print

¹ We have published under several different names, as our organization and our parent agency have changed significantly since its inception. Former publishing names include the Department of Conservation and Development, the Division of Geology, the Division of Mines and Mining, and the Division of Mines and Geology. In 1965, the Division was made a part of the Department of Natural Resources. In 1973, the Division of Mines and Geology became the Division of Geology and Earth Resources. In 2017, we became the Washington Geological Survey.

■ ANNUAL REPORTS ■

Annual Reports are available online only.

<p>Fourth biennial report of the Division of Mines and Mining for the period commencing October 1, 1940 and ending September 30, 1942, by S. L. Glover. 1943. 9 p. [ONLINE]</p>	<p>Out of print</p>	<p>Biennial report no. 8 of the Division of Mines and Geology [for the period commencing July 1, 1958 and ending June 30, 1960], by M. T. Huntting. 1960. 26 p. [ONLINE]</p>	<p>Out of print</p>
<p>Twelfth biennial report of the Department of Conservation and Development—October 1, 1942–September 30, 1944, by Ed Davis. 1944. 52 p. [ONLINE]</p>	<p>Out of print</p>	<p>Biennial report no. 9 [of the] Division of Mines and Geology for the period commencing July 1, 1960 and ending June 30, 1962, by M. T. Huntting. 1962? 19 p. [ONLINE]</p>	<p>Out of print</p>
<p>Fifth biennial report of the Division of Mines and Mining for the period commencing October 1, 1942, and ending September 30, 1944, by S. L. Glover. 1944. 6 p. [ONLINE]</p>	<p>Out of print</p>	<p>Biennial report no. 10 [of the] Division of Mines and Geology [for the period commencing July 1, 1962 and ending June 30, 1964], by M. T. Huntting. 1964? 18 p. [ONLINE]</p>	<p>Out of print</p>
<p>Biennial report no. 1 of the Division of Mines and Geology for the period commencing October 1, 1944 and ending September 30, 1946, by S. L. Glover. 1946. 24 p. [ONLINE]</p>	<p>Out of print</p>	<p>Biennial report no. 11 [of the] Division of Mines and Geology [for the period commencing July 1, 1964 and ending June 30, 1966], by M. T. Huntting. 1966? 17 p. [ONLINE]</p>	<p>Out of print</p>
<p>Biennial report no. 2 of the Division of Mines and Geology for the period commencing October 1, 1946 and ending September 30, 1948; including a report on Washington's mineral industry, by S. L. Glover. 1948. 28 p. [ONLINE]</p>	<p>Out of print</p>	<p>[Biennial report no. 12 of the] Mines and Geology Division [1966-1968], by M. E. Felt. 1968? 5 p. [ONLINE]</p>	<p>Out of print</p>
<p>Biennial report no. 3 of the Division of Mines and Geology for the period commencing October 1, 1948 and ending September 30, 1950, by S. L. Glover. 1951. 13 p. [ONLINE]</p>	<p>Out of print</p>	<p>Department of Natural Resources Division of Geology and Earth Resources</p>	
<p>Biennial report no. 4 of the Division of Mines and Geology for the period commencing October 1, 1950 and ending September 30, 1952, by S. L. Glover. 1952. 8 p. [ONLINE]</p>	<p>Out of print</p>	<p>Geology for the decade 1980-1990, by Raymond Lasmanis. 1983. 67 p. [ONLINE]</p>	<p>Out of print</p>
<p>Biennial report no. 5 of the Division of Mines and Geology for the period commencing July 1, 1952 and ending June 30, 1954; Including a special report: One hundred years of mining, by S. L. Glover. 1954? 20 p. [ONLINE]</p>	<p>Out of print</p>	<p>The Washington Division of Geology and Earth Resources—Geology in the public interest. 2003. 4 p. [ONLINE]</p>	<p>Out of print</p>
<p>Biennial report no. 6 of the Division of Mines and Geology for the period commencing July 1, 1954 and ending June 30, 1956, by S. L. Glover. 1956? 12 p. [ONLINE]</p>	<p>Out of print</p>	<p>The Washington Division of Geology and Earth Resources—Geology in the public interest. 2005. 4 p. [ONLINE]</p>	<p>Out of print</p>
<p>Biennial report no. 7 of the Division of Mines and Geology for the period commencing July 1, 1956 and ending June 30, 1958, by M. T. Huntting. 1958. 19 p. [ONLINE]</p>	<p>Out of print</p>	<p>The Washington Division of Geology and Earth Resources—Geology in the public interest [short version]. 2005. 2 p. [ONLINE]</p>	<p>Out of print</p>
		<p>The Washington Division of Geology and Earth Resources—Geology in the public interest. 2009. 4 p. [ONLINE]</p>	<p>Out of print</p>

■ BULLETINS ■

Contact us to see if paper copies are available (see p. 3)

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|-----|---|--------------|--|---|--------------|
| 38. | The place of steam-electric generating stations in the orderly program of electric power development in the Pacific Northwest, by H. H. Houston. 1950. 117 p., 1 pl., 25 figs. [ONLINE] | Out of print | 57. | Mines and mineral deposits of Whatcom County, Washington, by W. S. Moen. 1969. 134 p., 14 pl., 44 figs. [PART 1] [PART 2] | Out of print |
| 39. | Antimony occurrences of Washington, by C. P. Purdy Jr. 1951. 186 p., 14 figs. [ONLINE] | Out of print | 58. | Chemical and physical controls for base metal deposition in the Cascade Range of Washington, by A. R. Grant. 1969. 107 p., 33 figs. [ONLINE] | Out of print |
| 40. | Geology of the Bead Lake district, Pend Oreille County, Washington, by M. C. Schroeder. 1952. 57 p., 1 pl., 6 figs. [ONLINE] | Out of print | 59. | Bibliography and index of the geology and mineral resources of Washington, 1957–1962, by W. H. Reichert. 1969. 375 p.
<i>Superseded by the online bibliography.</i> | Out of print |
| 41. | An outline of mining laws of the State of Washington [includes 16 p. supplement], compiled and annotated by M. H. Van Nuys. 1953. 142 p. [ONLINE] | Out of print | 60. | Cenozoic volcanism in the Cascade Mountains of southern Washington, by W. S. Wise. 1970. 45 p., 1 pl., 14 figs. [ONLINE] | Out of print |
| 42. | Gold in Washington, by M. T. Huntting. 1955. 158 p., 2 figs. [ONLINE] | Web only | 61. | Lead-zinc deposits in the Kootenay arc, northeastern Washington and adjacent British Columbia, edited by A. E. Weissenborn, F. C. Armstrong, and J. T. Fyles. 1970. 123 p. [ONLINE] | In print |
| 43. | Eocene stratigraphy of the lower Cowlitz River–eastern Willapa Hills area, southwestern Washington, by D. A. Henriksen. 1956. 122 p. [ONLINE] | In print | 62. | Foraminifera, stratigraphy, and paleoecology of the Quinault Formation, Point Grenville–Raft River coastal area, Washington, by W. W. Rau. 1970. 41 p. [ONLINE] | In print |
| 44. | Peat resources of Washington, by G. B. Rigg. 1958. 272 p., 1 pl., 263 figs. [PART 1] [PART 2] [PART 3] | Out of print | 63. | Geology and mineral resources of King County, Washington, by V. E. Livingston Jr. 1971. 200 p., 6 pl., 103 figs. [PART 1 , PART 2] | Out of print |
| 45. | Washington’s channeled scabland, by J. H. Bretz. 1959. 57 p., 4 pl., 36 figs. [ONLINE] | Out of print | 64. | Geology and mineral deposits of the Loomis [15-minute] quadrangle, Okanogan County, Washington, by C. D. Rinehart and K. F. Fox Jr. 1972. 124 p., 3 pl. (pl. 1: 27 x 33 in. color geologic map, scale 1:62,500), 32 figs. [ONLINE] | Out of print |
| 46. | Bibliography and index of the geology and mineral resources of Washington, 1937–1956, by W. H. Reichert. 1960. 721 p.
<i>Superseded by the online bibliography.</i> | Out of print | 65. | Distribution of copper and other metals in gully sediments of part of Okanogan County, Washington, by K. F. Fox Jr., and C. D. Rinehart. 1972. 38 p., 4 pl. (pl. 1: 26 x 28 in. color geologic map, scale 1:96,000, with 2 overlays), 10 figs. [ONLINE] | In print |
| 47. | Coal reserves of Washington, by H. M. Beikman, H. D. Gower, and T. A. M. Dana. 1961. 115 p. [Reprinted with 15-p. addendum by H. W. Schasse, T. J. Walsh, and W. M. Phillips. 1984.] [ONLINE] | In print | Division of Geology and Earth Resources | | |
| 48. | High-calcium limestones of eastern Washington, by J. W. Mills. 1962. 268 p., 7 pl., 64 figs. [PART 1] [PART 2] [PART 3] [PART 4] | Out of print | 66. | Geology of the Washington coast between Point Grenville and the Hoh River, by W. W. Rau. 1973. 58 p. [ONLINE] | In print |
| 49. | Saline lake deposits in Washington, by W. A. G. Bennett. 1962. 129 p. [ONLINE] | In print | 67. | Mining laws of the State of Washington, by J. L. Neff and R. L. Magnuson. 1974. 109 p., 9 figs. [ONLINE] | Out of print |
| 50. | Geology and mineral deposits of the north half of the Van Zandt quadrangle, Whatcom County, Washington, by W. S. Moen. 1962. 129 p., 4 pl., 41 figs. [ONLINE] | Out of print | 68. | Geology of the Methow Valley, Okanogan County, Washington, by J. D. Barksdale. 1975. 72 p., 1 pl., 17 figs. [ONLINE] | Out of print |
| 51. | Barite in Washington, by W. S. Moen. 1964. 112 p., 2 pl. [ONLINE] | In print | 69. | Silver occurrences of Washington, by W. S. Moen. 1976. 188 p. [Reprinted 1982.] [ONLINE] | In print |
| 52. | Limestone resources of western Washington, by W. R. Danner. 1966. 474 p. [PART 1] [PART 2] [PART 3] | In print | 70. | Zinc and lead ore deposits in carbonate rocks, Stevens County, Washington, by J. W. Mills. 1977. 171 p. [ONLINE] | In print |
| 53. | Stratigraphy and foraminifera of the Satsop River area, southern Olympic Peninsula, Washington, by W. W. Rau. 1966. 66 p. [ONLINE] | In print | 71. | Geology of parts of Grant, Adams, and Franklin Counties, east-central Washington, by M. J. Grolier and J. W. Bingham. 1978. 91 p., 33 figs. [ONLINE] | Out of print |
| 54. | Geology and mineral resources of the Kelso–Cathlamet area, Cowlitz and Wahkiakum Counties, Washington, by V. E. Livingston Jr. 1966. 110 p., 23 figs. [ONLINE] | Out of print | 72. | Washington coastal geology between the Hoh and Quillayute Rivers, by W. W. Rau. 1980. 57 p. [ONLINE] | In print |
| 55. | Building stone of Washington, by W. S. Moen. 1967. 85 p. [ONLINE] | In print | 73. | Myers Creek and Wauconda mining districts of northeastern Okanogan County, Washington, by W. S. Moen. 1980. 96 p., 6 pl., 36 figs. [ONLINE] | Out of print |
| 56. | Geology of the Wynoochee Valley [15-minute] quadrangle, Grays Harbor County, Washington, by W. W. Rau. 1967. 51 p., 1 pl., scale 1:62,500. [ONLINE] | In print | | | |

■ BULLETINS ■

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|--|---|--|---|
| <p>74. Reconnaissance geochemical survey of gully and stream sediments, and geologic summary, in part of the Okanogan Range, Okanogan County, Washington, by C. D. Rinehart. 1981. 24 p., 3 pl. [ONLINE]</p> <p>75. Geology of the Wenatchee and Monitor quadrangles, Chelan and Douglas Counties, Washington, by R. L. Gresens. 1983. 75 p., 3 pl., scale 1:24,000. [ONLINE]</p> <p>76. Bibliography and index of the geology and mineral resources of Washington, 1963–1980, compiled by C. J. Manson and Debbie Burnett. 1983. 398 p.
<i>Superseded by the online bibliography.</i></p> <p>77. Selected papers on the geology of Washington, edited by J. E. Schuster. 1987. 406 p. [PART 1] [PART 2] [PART 3]</p> <p>78. Engineering geology in Washington, edited by R. W. Galster, chairman. 1989. [2 v.], 1234 p. [VOL 1 PART 1] [VOL 1 PART 2] [VOL 1 PART 3], [VOL 1 PART 4] [VOL 1 PART 5] [VOL 2 PART 1] [VOL 2 PART 2] [VOL 2 PART 3] [VOL 2 PART 4]</p> | <p>In print</p> <p>In print</p> <p>Out of print</p> <p>In print</p> <p>In print</p> | <p>79. Bibliography and index of the geology and mineral resources of Washington, 1981–1985, compiled by C. J. Manson. 1990. 484 p.
<i>Superseded by the online bibliography.</i></p> <p>80. Regional Geology of Washington State, Raymond Lasmanis and E. S. Cheney, convenors. 1994. 227 p., 136 figs., 18 tables. [PART 1, PART 2]</p> <p>81. Bibliography and index of the geology and mineral resources of Washington, 1986–1990, by C. J. Manson. 1996. 476 p.
<i>Superseded by the online bibliography.</i></p> <p style="text-align: center;">Washington Geological Survey</p> <p>82. Protocol for landslide inventory mapping from lidar data in Washington State, S. L. Slaughter, W. J. Burns, K. A. Mickelson, K. E. Jacobacci, Alyssa Biel, and T. A. Contreras. 2017. 27 p., 2 ESRI geodatabases, and 1 Excel data supplement. [ONLINE]</p> | <p>Out of print</p> <p>Out of print</p> <p>Out of print</p> <p></p> <p>Web only</p> |
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<i>Superseded by the online bibliography.</i></p> | <p>Lib.
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| <p>2. Digital geologic maps of the 1:100,000 quadrangles of Washington, by Washington Division of Geology and Earth Resources staff. 2001 and 2003.
<i>Superseded by the Geologic Information Portal.</i></p> | <p>Lib.
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[ONLINE]</p> | <p>Web
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| <p>The Washington Geology Library. 2015. 2 p.
[ONLINE]</p> | <p>Web
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[ONLINE]</p> | <p>Web
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| <p>Landslide hazards in Washington state. 2015. 2 p.
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■ FIELD TRIP GUIDES ■

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[ONLINE]</p> | <p>In
print</p> | <p>Geologic Field Trip to the Aldercrest–Banyon Landslide and Mount St. Helens, Washington, Part I—Stevenson to Castle Rock, by K. W. Wegmann. 2004. 24 p. [ONLINE]</p> | <p>Web
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| <p>Geologic guide to the Yakima Valley wine-growing region, Benton and Yakima Counties, Washington, by D. K. Norman and A. J. Busacca. 2008. 10 p. [ONLINE]</p> | <p>Web
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■ GeMS GEODATABASES ■

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| <p>1. Digital geology for the Hunters 15-minute quadrangle—GIS data, by Washington Geological Survey. 2023. [ONLINE]</p> | <p>Web
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■ GEOLOGIC MAPS ■

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Note: Geologic maps may also be found under other categories, such as Open File Report, Bulletin, Information Circular, and Map Series.

Division of Geology

Preliminary geologic map, State of Washington, compiled from published and unpublished sources, edited by G. W. Stose. 1936. 53 x 35 in. color sheet, scale 1:500,000. [Accompanied by Bulletin 32, which is out of print.] [\[ONLINE\]](#) Out of print

Division of Mines and Geology

Geologic map of Washington, by M. T. Huntting, W. A. G. Bennett, V. E. Livingston Jr., and W. S. Moen. 1961. One 75 x 50 in. color sheet or two 50 x 40 in. color sheets, scale 1:500,000. [\[1 SHEET\]](#) [\[SHEET 1 OF 2\]](#) [\[SHEET 2 OF 2\]](#) Out of print

Geologic cross section to accompany the 1961 Geologic map of Washington, by V. E. Livingston, Jr. 1961. 1 sheet, scale 1:500,000. [\[ONLINE\]](#) Out of print

GM-1. Preliminary geologic map of the Hobart and Maple Valley [7.5-minute] quadrangles, King County, Washington, by J. D. Vine. 1962. 43 x 36 in. color sheet, scale 1:24,000. [\[ONLINE\]](#) In print

GM-2. Preliminary geologic map of the Cumberland [7.5-minute] quadrangle, King County, Washington, by H. D. Gower and A. A. Wanek. 1963. 30 x 41 in. color sheet, scale 1:24,000. [\[ONLINE\]](#) In print

GM-3. Geology of the Simcoe Mountains volcanic area, Washington, by R. A. Sheppard. 1967. 43 x 23 in. sheet, scale 1:125,000. [\[ONLINE\]](#) In print

GM-4. Geology of the Grays River [15-minute] quadrangle, Wahkiakum and Pacific Counties, Washington, by E. W. Wolfe and E. H. McKee. 1968. 23 x 34 in. color sheet, scale 1:62,500, with 6 p. text. [\[ONLINE\]](#) In print

GM-5. Preliminary geologic map of the Chewelah Mountain [15-minute] quadrangle, Stevens County, Washington, by L. D. Clark and F. K. Miller. 1968. Two 25 x 32 in. color sheets, scale 1:62,500, with 6 p. text. [\[ONLINE\]](#) In print

GM-6. Preliminary geologic map of the Loon Lake [15-minute] quadrangle, Stevens and Spokane Counties, Washington, by F. K. Miller. 1969. 30 x 29 in. color sheet, scale 1:62,500, with 7 p. text. [\[ONLINE\]](#) In print

Division of Geology and Earth Resources

GM-7. Preliminary geologic map of the Newport Number 1 [15-minute] quadrangle, Pend Oreille County, Washington, and Bonner County, Idaho, by F. K. Miller. 1974. 24 x 31 in. color sheet, scale 1:62,500, with 6 p. text. [\[ONLINE\]](#) Out of print

GM-8. Preliminary geologic map of the Newport Number 2 [15-minute] quadrangle, Pend Oreille and Stevens Counties, Washington, by F. K. Miller. 1974. 22 x 32 in. color sheet, scale 1:62,500, with 6 p. text. [\[ONLINE\]](#) Out of print

GM-9. Preliminary geologic map of the Newport Number 3 [15-minute] quadrangle, Pend Oreille, Stevens, and Spokane Counties, Washington, by F. K. Miller. 1974. 23 x 32 in. color sheet, scale 1:62,500, with 7 p. text. [\[ONLINE\]](#) Out of print

GM-10. Preliminary geologic map of the Newport Number 4 [15-minute] quadrangle, Spokane and Pend Oreille Counties, Washington, and Bonner County, Idaho, by F. K. Miller. 1974. 24 x 30 in. color sheet, scale 1:62,500, 6 p. text. [\[ONLINE\]](#) Out of print

GM-11. Complete Bouguer gravity anomaly map of Washington, by W. E. Bonini, D. W. Hughes, and Z. F. Daneš. 1974. 59 x 43 in. sheet, scale 1:500,000. [\[ONLINE\]](#) Out of print

GM-12. Thickness of unconsolidated sediments, Puget Lowland, Washington, by J. B. Hall and K. L. Othberg. 1974. 23 x 35 in. sheet, scale 1:250,000, with 3 p. text. [\[ONLINE\]](#) Out of print

GM-13. Geologic map of the Destruction Island and Taholah [15-minute] quadrangles, Washington, by W. W. Rau. 1975. 36 x 47 color sheet, scale 1:62,500. [\[ONLINE\]](#) Out of print

GM-14. Preliminary surficial geologic map of the Edmonds East and Edmonds West [7.5-minute] quadrangles, Snohomish and King Counties, Washington, by Mackey Smith. 1975. 31 x 24 in. sheet, scale 1:24,000. [\[ONLINE\]](#) Out of print

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GM-16. Relative ground settlement hazards of Thurston County, Washington, by E. R. Artim. 1976. 31 x 19 in. color sheet, scale 1:125,000. [\[ONLINE\]](#) In print

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GM-18. Relative slope stability of Gig Harbor Peninsula, Pierce County, Washington, by Mackey Smith. 1976. 21 x 35 in. color sheet, scale 1:31,250. [\[ONLINE\]](#) In print

GM-19. Geologic factors affecting waste disposal practices, Gig Harbor Peninsula, Pierce County, Washington, by Mackey Smith. 1976. 1 sheet (21 x 35 in.), scale 1:31,250. [\[ONLINE\]](#) In print

GM-20. Preliminary surficial geologic map of the Mukilteo and Everett [7.5-minute] quadrangles, Snohomish County, Washington, by Mackey Smith. 1976. 35 x 24 in. sheet, scale 1:24,000. [\[ONLINE\]](#) In print

GM-21. Mineral resources of the southern Hood Canal area, Washington, by Mackey Smith and R. J. Carson. 1976. 23 x 27 in. sheet, scale 1:62,500. [\[ONLINE\]](#) In print

GM-22. Mineral resource maps of Washington, by W. S. Moen. 1978. Four 28 x 19 in. color sheets, scale 1:1,000,000, with 4 p. text. [Reprinted 1986.] [\[ONLINE\]](#) In print

GM-23. Geologic map of the Marblemount [15-minute] quadrangle, Washington, by Peter Misch. 1979. 36 x 30 in. color sheet, scale 1:48,000. [\[ONLINE\]](#) In print

GM-24. Geologic map in the vicinity of the lower Bogachiel and Hoh River valleys and the Washington coast, by W. W. Rau. 1979. 29 x 47 in. color sheet, scale 1:62,500. [\[ONLINE\]](#) In print

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| <p>GM-50. Geologic map of Washington—Northwest quadrant, by J. D. Dragovich, R. L. Logan, H. W. Schasse, T. J. Walsh, W. S. Lingley Jr., D. K. Norman, W. J. Gerstel, T. J. Lapen, J. E. Schuster, and K. D. Meyers. 2002. 62 x 45 in. color sheet, scale 1:250,000, and two accompanying explanatory sheets (52 x 36 in. and 40 x 33 in.), with 72 p. text. [ONLINE]</p> | In
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| <p>GM-51. Liquefaction susceptibility of the greater Tacoma urban area, Pierce and King Counties, Washington, by S. P. Palmer, W. J. Perkins, and W. P. Grant. 2003. 48 x 36 in. color pl., scale 1:30,000, with 11 p. text. [ONLINE]</p> | In
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| <p>GM-52. Tectonic elements and evolution of northwest Washington, by E. H. Brown and J. D. Dragovich. 2003. 38 x 36 in. color sheet, scale 1:625,000, with 12 p. text. [ONLINE]</p> | In
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| <p>112. Inactive and abandoned mine lands—Ruby Hill Mining District, Okanogan County, Washington, by F. E. Wolff, D. T. McKay, and D. K. Norman. 2011. 35 p. [ONLINE]</p> | Web only | | |

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2018-01	Tsunami hazard maps of southwest Washington—Model results from a ~2,500-year Cascadia subduction zone earthquake scenario, by D. W. Eungard, Corina Forson, T. J. Walsh, Edison Gica, and Diego Arcas. 2018. Six 36 x 42 in. map sheets, scale 1:48,000, with 11 p. text. [Revised 2018] [ONLINE]	Web only	2020-02	Geologic map of the Oakville and Rainbow Falls 7.5-minute quadrangles, Lewis, Thurston, and Grays Harbor Counties, Washington, by Michael Polenz, C. H. Toth, Catherine Samson, Tabor Reedy, Wesley von Dassow, W. C. Duckworth, T. R. Lau, M. L. Anderson, E. A. Nesbitt, J. H. Tepper, S. A. DuFrane, Gabriel Legorreta Paulin. 2020. 52 x 36 in. color plate, scale 1:24,000, with 19 p. text. [ONLINE]	Web only
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2018-03	Tsunami hazard maps of Port Angeles and Port Townsend, Washington—Model results from a ~2,500-year Cascadia subduction zone earthquake scenario, by D. W. Eungard, Corina Forson, T. J. Walsh, F. I. Gonzalez, R. J. LeVeque, and L. M. Adams. 2018. Six 36 x 36 in. map sheets, scales 1:11,000 and 1:16,000, with 11 p. text. [ONLINE] <i>Partially superseded by Map Series 2022-01.</i>	Web only	2021-02	Geologic map of the Tenalquot Prairie and northern two-thirds of the Vail 7.5-minute quadrangles, Thurston and Pierce Counties, Washington, by Michael Polenz, F. R. Hladky, M. L. Anderson, J. H. Tepper, A. E. Horst, D. P. Miggins, Gabriel Legoretta Paulin. 2021. 52 x 36 in. color plate, scale 1:24,000, with 47 p. text. [ONLINE]	Web only
2018-04	Geologic map of the Violet Prairie 7.5-minute quadrangle, Thurston and Lewis Counties, Washington, by Michael Polenz, B. A. Ostrom, T. R. Lau, A. J. Sadowski, A. L. Blanks-Bennett, Recep Cakir, J. H. Tepper, Gabriel Legorreta Paulin, Elizabeth Nesbitt, S. A. DuFrane. 2018. 42 x 36 in. color plate, scale 1:24,000, with 41 p. text. [ONLINE]	Web only	2021-03	Geologic map of the Colockum Pass SW and southern half of the Naneum Canyon 7.5-minute quadrangles, Kittitas County, Washington, by A. J. Sadowski, A. L. Gilliland, M. L. Anderson. 2021. 50 x 36 in. color plate, scale 1:24,000, with 23 p. text. [ONLINE]	Web only
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| | | | 2014-03 | Tsunami hazard map of Everett, Washington: Model results for magnitude 7.3 and 6.7 Seattle fault earthquakes, by T. J. Walsh, Diego Arcas, V. V. Titov, and C. C. Chamberlin. 2014. 50 x 36 in. color sheet, scale 1:32,000. [ONLINE] | Web only |

Superseded by Map Series 2022-03.

41. Landslide inventory of western King County, by K. A. Mickelson, K. E. Jacobacci, T. A. Contreras, W. N. Gallin, and S. L. Slaughter. 2019. 7 p. text and 1 ESRI geodatabase. [[ONLINE](#)] Web only
42. Landslide inventory of western Whatcom County, by K. A. Mickelson, T. A. Contreras, W. N. Gallin, K. E. Jacobacci, and S. L. Slaughter. 2020. 7 p. text and 1 ESRI geodatabase. [[ONLINE](#)] Web only
43. Landslide inventory of portions of Snohomish County, Washington by K. A. Mickelson, T. A. Contreras, M. D. Allen, K. E. Jacobacci, E. M. Richard, W. N. Gallin, Kara Fisher, and Gabriel Legoretta Paulin. 2022. 7 p. text. [[ONLINE](#)] Web only
44. Alluvial fan inventory of Klickitat County, Washington, by K. A. Mickelson, Trent Adams, and Crystal Lambert. 2023. 5 p. text. [[ONLINE](#)] Web only
45. Landslide inventory update of the Columbia River Gorge in Clark, Skamania, and Klickitat Counties, Washington, by M. D. Allen, E. M. Richard, Kara Fisher, Josh Hardesty, K. A. Mickelson, Trent Adams, and Crystal Lambert. 2023. 7 p. text. [[ONLINE](#)] Web only

■ REPRINTS ■

Contact us to see if paper copies are available (see p. 3)

- | | | | |
|--|---|---|---|
| <p>1. Ringold Formation of Pleistocene age in type locality, the White Bluffs, Washington, by R. C. Newcomb. 1958. 14 p. [ONLINE]</p> <p>2. Pleistocene sequence in southeastern part of the Puget Sound lowland, Washington, by D. R. Crandell, D. R. Mullineaux, and H. H. Waldron. 1958. 15 p. [ONLINE]</p> <p>3. Tertiary stratigraphic papers, southwestern Washington: McIntosh formation, Centralia-Chehalis coal district, Washington, by P. D. Snavely, Jr., W. W. Rau, Linn Hoover, Jr., and A. E. Roberts; Lyre formation (redefinition), northern Olympic Peninsula, Washington, by R. D. Brown, Jr., P. D. Snavely, Jr., and H. D. Gower; Twin River formation (redefinition), northern Olympic Peninsula, Washington, by R. D. Brown, Jr., and H. D. Gower. 1959. 50 p. [ONLINE]</p> <p>4. Nickel-gold ore of the Mackinaw mine, Snohomish County, Washington, by Charles Milton and D. J. Milton. 1959. 22 p. [ONLINE]</p> <p>5. What are the prospects in Washington State?, by F. H. Wurdén; and Puget Sound area has several prospective oil and gas basins, by J. Q. Anderson. 1959. 10 p. [ONLINE]</p> | <p>Web only</p> <p>Web only</p> <p>Web only</p> <p>Web only</p> <p>Web only</p> | <p>6. Geology of the Jumbo Mountain nickel deposit, Snohomish County, Washington, by J. W. Mills. 1960. 4 p. [ONLINE]</p> <p>7. Mineralogy and geochemistry of the Read magnetite deposit, southwestern Stevens County, Washington, by W. A. G. Bennett; and Ludwigite from the Read magnetite deposit, Stevens County, Washington, by W. T. Schaller and A. C. Vlisidis. 1962. 13 p. [ONLINE]</p> <p>8. Emplacement of the Twin Sisters Dunite, Washington, by D. M. Ragan. 1963. 16 p. [ONLINE]</p> <p>9. Mineral and water resources of Washington, by the U.S. Geological Survey and others. 1966. 436 p. [ONLINE]</p> <p>10. Washington mineral deposits, by M. T. Huntting. 1966. 7 p. [ONLINE]</p> <p>11. The search for hot rocks—Geothermal exploration, Northwest, by J. E. Schuster. 1973. 3 p. [ONLINE]</p> <p>12. Geology of Washington, by the U.S. Geological Survey. 1978. 51 p., 1 pl. [ONLINE]</p> <p>13. An assessment of the oil and gas potential of the Washington outer continental shelf, by S. P. Palmer and W. S. Lingley, Jr. 1989. 83 p., 12 pl. [ONLINE]</p> | <p>Web only</p> <p>Web only</p> <p>Web only</p> <p>Web only</p> <p>Web only</p> <p>Web only</p> <p>Web only</p> <p>Web only</p> |
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■ RESOURCE MAPS ■

Contact us to see if paper copies are available (see p. 3)

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|--|---------------------------------|--|-----------------|
| <p>1. Rock aggregate resource lands inventory map for Clark County, Washington, by C. N. Johnson, S. P. Palmer, and J. L. Poelstra. 2005. 36 x 36 in. color sheet, scale 1:100,000. [ONLINE]</p> <p>2. Rock aggregate resource lands inventory map for Yakima County, Washington, by S. P. Palmer, J. L. Poelstra, and C. N. Johnson. 2005. 38 x 36 in. color sheet, scale 1:200,000. [ONLINE]</p> | <p>In print</p> <p>In print</p> | <p>3. Potential growing areas for wine grapes in the Yakima Valley, Washington, by D. K. Norman, A. J. Busacca, and Wade Wolfe. 2009. 48 x 36 in. color sheet, scale 1:110,000. [ONLINE]</p> | <p>In print</p> |
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■ TOPOGRAPHIC MAPS ■

Topographic Maps are available online only.

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|---|---|--|---------------------------------|
| <p>TM-1. State of Washington—Southwest quadrant, prepared by Division of Geology and Earth Resources staff. 1987. 1 sheet, scale 1:250,000. [Available rolled (R) or folded (F).] [ONLINE]</p> <p>TM-2. State of Washington—Northeast quadrant, prepared by Division of Geology and Earth Resources staff. 1991. 1 sheet, scale 1:250,000. [Available rolled (R) or folded (F).] [ONLINE]</p> <p>TM-3. Topographic map, State of Washington—Southeast quadrant, prepared by Division of Geology and Earth Resources staff. 1997. 1 sheet, scale 1:250,000. [Available rolled (R) or folded (F).] [ONLINE]</p> | <p>Web only</p> <p>Web only</p> <p>Web only</p> | <p>Quick report for the Ledgewood–Bonair landslide, Whidbey Island, Island County, Washington, by Stephen Slaughter, Isabelle Sarikhan, Michael Polenz, and Tim Walsh. 2013. [7 p.] [ONLINE]</p> <p>Strategies for establishing a Washington State post-earthquake information clearinghouse: A report to the Washington Emergency Management Division, by T. J. Walsh and Recep Cakir. 2013. [20 p.] [ONLINE]</p> | <p>Web only</p> <p>Web only</p> |
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■ MISCELLANEOUS REPORTS ■

Miscellaneous Reports are available online only.

Shallow seismic site characterizations at 25 ANSS/PNSN stations and compilation of site-specific data for the entire strongmotion network in Washington and Oregon, by Recep Cakir and T. J. Walsh. 2012. 61 p. [ONLINE]	Web only	Washington's coal—History and future development potential, by Raymond Lasmanis and H. W. Schasse. 1982. 24 p. [ONLINE]	Web only
Shallow seismic site characterizations at 23 strong-motion station sites in and near Washington State, by Recep Cakir and T. J. Walsh. 2011. 101 p. [ONLINE]	Web only	Forest Slope Stability Project, Phase II, by A. J. Fiksdal and M. J. Brunengo. 1981. 2 v. [ONLINE]	Web only
Shallow-seismic site characterizations of near-surface geology at 20 strongmotion stations in Washington State, by Recep Cakir and T. J. Walsh. 2010. 39 p. [ONLINE]	Web only	Forest Slope Stability Project, Phase I, by A. J. Fiksdal and M. J. Brunengo. 1980. 18 p., 7 pl. [ONLINE]	Web only
Liquefaction susceptibility mapping for selected urban areas in the central Puget Sound region, Washington—Final technical report, by S. P. Palmer, W. J. Perkins, and W. P. Grant. 2004. 1 v. [ONLINE]	Web only	A pre-1980 eruption description of Mount St. Helens, by the Washington Division of Geology and Earth Resources. 1980. 10 p. [ONLINE]	Web only
Holocene geologic history and sedimentology of the Duwamish and Puyallup valleys, Washington, by S. P. Palmer. 1997. 32 p. [ONLINE]	Web only	Bibliography of Snohomish County geology, with an index to geologic mapping, by S. J. Simpson. 1979. 81 p., 6 pl. [ONLINE]	Web only
Reconnaissance geology of the Matheny Ridge–Higley Peak areas, Olympic Peninsula, Washington, by W. S. Lingley, Jr., R. L. Logan, T. J. Walsh, W. J. Gerstel, H. W. Schasse. 1996. 31 p., 1 pl., scale 1:62,500. [ONLINE]	Web only	Photographic guide keyed to 15-minute quadrangles [supplement to OFR 79-2. An assessment of the uranium potential in the Ellensburg Formation, south-central Washington], by P. C. Milne. 1979. [47 p.] [ONLINE]	Web only
Capitol campus greenhouse soil stability investigation status report, by S. P. Palmer and W. J. Gerstel. 1995. 1 v. [ONLINE]	Web only	A learning guide on the geology of the Cispus Environmental Center area, Lewis County, Washington, by J. E. Schuster. 1973. 53 p. [ONLINE]	Web only
Petroleum potential and probability of renewed mineral-rights leasing in the Columbia Basin, Washington, by W. S. Lingley, Jr. 1995. 43 p. [ONLINE]	Web only	Geothermal energy—Questions and answers, by J. E. Schuster. 1972. 4 p. [ONLINE]	Web only
Cyanide heap leaching—A report to the Legislature, by D. K. Norman and R. L. Raforth. 1994. 28 p. [ONLINE]	Web only	Holden tailings [Holden mine, Chelan County], by G. W. Thorsen. 1970. 20 p. [ONLINE]	Web only
Fundamentals of blasting and reclamation workshop, by A. E. Teller. 1994. [ONLINE]	Web only	Landslide of January 1967 which diverted the North Fork of the Stillaguamish River near Hazel [Snohomish County], by G. W. Thorsen. 1970. 8 p. [ONLINE]	Web only
Index of geotechnical studies of the Washington State capitol campus and vicinity, by R. A. Christie. 1993. 4 p., 1 pl. [ONLINE]	Web only	Surface-mined land reclamation act training session, by M. T. Huntting, D. M. Ford, and John Griffiths. 1970. 1 v., 76 p. [ONLINE]	Web only
General geology and paleontology of the Harsha 7.5 quadrangle, by P. K. Spencer. 1992? 14 p. [ONLINE]	Web only	Ghost town references, by the State of Washington Board of Natural Resources. 1968? 3 p. [ONLINE]	Web only
Thunder Creek basin, Skagit County—Report of DNR Study Team, by Jerry Thorsen. 1989. 33 p. [ONLINE]	Web only	Mineral resources in the Puget Sound area, by the U.S. Bureau of Mines; Washington Division of Mines and Geology; Washington Department of Natural Resources. 1968. 150 p. [ONLINE]	Web only
The Culver System in Washington State, by J. E. Schuster. 1988. [ONLINE]	Web only	State mineral production near record level in 1966, by M. T. Huntting. 1967? 9 p. [ONLINE]	Web only
Guide to production of 1:100,000-series open file reports, by Bill Phillips. 1988. 17 p. [ONLINE]	Web only	Mine production record set in 1965, by M. T. Huntting. 1966? 3 p. [ONLINE]	Web only
Introduction to the petroleum geology of the Olympic coast of Washington and adjacent portions of the continental shelf—A road log—Ocean Shores to Kalaloch guidebook, by Washington Division of Geology and Earth Resources staff. 1988. 46 p. [ONLINE]	Web only	Mining developments and future needs of Washington, by M. T. Huntting. 1965. 6 p. [ONLINE]	Web only
Mount St. Helens—A bibliography of geoscience literature, 1882–1986, by C. J. Manson, C. H. Messick, and G. M. Sinnott. 1987. 205 p. [AUTHOR] [SUBJECT]	Web only	State mineral production at all time high in 1964, by M. T. Huntting. 1965? 4 p. [ONLINE]	Web only
Notes on division history, by J. E. Schuster. 1986. 9 p. [ONLINE]	Web only	“Firsts,” 1957–1964—Division of Mines and Geology, by M. T. Huntting? 1964? 2 p. [ONLINE]	Web only
Gems and minerals of Washington, by Bob Pattie. 1985. 1 sheet, scale 1:443,520. [ONLINE]	Web only	Mine resource programs—Present and future, by M. T. Huntting. 1964. 3 p. [ONLINE]	Web only
		Origin of Dry Falls [Grant County], by V. E. Livingston, Jr. 1964. 4 p. [ONLINE]	Web only
		Tumtum Mountain [Clark County]—A potential source of feldspar, by W. A. G. Bennett. 1964. 5 p. [ONLINE]	Web only
		Annotated bibliography of Washington clays, by W. H. Reichert. 1963. 19 p. [ONLINE]	Web only

Dolomite and andalusite deposits of northern Stevens County, by W. S. Moen and W. A. G. Bennett. 1963. 4 sheets, scale 1:62,500. [ONLINE]	Web only	Steilacoom gravel, by S. H. Green and M. T. Huntting. 1948. 9 p. [ONLINE]	Web only
A set of Washington rocks and minerals for schools, by Washington Division of Mines and Geology; Washington State Superintendent of Public Instruction. 1963. 13 p. [ONLINE]	Web only	A factual review of mining developments in the State of Washington in 1947, by S. H. Green. 1947. 4 p. [ONLINE]	Web only
State Department of Conservation has record year [1962], by M. T. Huntting. 1963. 7 p. [ONLINE]	Web only	Preliminary report on the mines and prospects of the upper Methow region, Okanogan and Whatcom Counties, by Ward Carithers. 1946. 40 p. [ONLINE]	Web only
Preliminary report on mineral resources of the Cougar Lake limited area [Yakima County], by W. S. Moen. 1962. 9 p. [ONLINE]	Web only	An outline of mining laws of the State of Washington, compiled and annotated, by M. H. Van Nuys. 1940. 55 p. [ONLINE] <i>Superseded by Bulletin 41.</i>	Web only
Mineral exploration in Washington—1960, by M. T. Huntting. 1961? 2 p. [ONLINE]	Web only	Oil and gas studies by the Division of Geology, by S. L. Glover. 1936. 8 p. [ONLINE]	Web only
Washington mineral industry—1960, by M. T. Huntting. 1961? 5 p. [ONLINE]	Web only	Report of natural resources survey from October 1, 1933, to March 1, 1935, by T. B. Hill. 1935. 30 p. [ONLINE]	Web only
Preliminary surveys for highway salvage archeology in the State of Washington—A final report, by Bruce Stallard. 1958. 23 p. [ONLINE]	Web only	Colloidal fuel, by M. C. Butler. 1934. 9 p. [ONLINE]	Web only
Mining in Washington, by C. P. Purdy, Jr. 1953. 3 p. [ONLINE]	Web only	Mining in the Pacific Northwest, by L. K. Hodges. 1897. 183 p. [ONLINE]	Web only

■ OTHER PUBLICATIONS ■

Other publications are available online only.

Color Page-Size Geologic Map of Washington

This 8½ x 14 in. map, compiled by J. E. Schuster, includes a brief description of the geologic history of Washington. Scale 1:2,250,000 (or 1 in. ≈ 37 mi). Revised 2021. [ONLINE]

Mining Districts of Washington

A map (circa 1980?) of the named mining districts. This map is not definitive—names have changed over the years. [ONLINE]

Mount St. Helens Slide Sets

Two sets of slides of the eruptions and short descriptions of the scenes are available:

Set 1 contains 20 slides and covers the period from March through June 1980. This slide set was digitally remastered in 2015. [ONLINE]

Set 2 contains 20 slides and covers the period from May 18, 1980, to May 13, 1981. This slide set was digitally remastered in 2015. [ONLINE]

Set 3 contains 16 digitally remastered photographs and slides of the eruption and its aftermath. [ONLINE]

DGER News

DGER News was an electronic-only newsletter about the activities of the Survey. It was published quarterly from 2003 to 2007 and is available in PDF format. [ONLINE]

Washington Geology Journal

Washington Geology was published about four times a year from 1973 to 2002. It is currently on hiatus. All issues are available in PDF format. Articles cover topics of interest to both geologists and the general public. [ONLINE]

GEOLOGY RECREATION AND EDUCATION

Fossil and Mineral Collecting

Information on fossil and mineral collecting in Washington, includes [Fossils in Washington](#), [Gems and Minerals of Washington](#), and [Mineral Checklist](#).

Geology Resources for Teachers

Selected information about earth science for teachers, including online sources. [ONLINE]

Gold Panning

Information on recreational placer gold mining and mining claims procedures (both state and federal), includes [Mining Claims and Sites on Federal Lands](#), [Small Scale Prospecting and Placer Mining in Washington](#), [Boundaries of State-owned Aquatic Lands](#), [Recreational Gold Panning](#), and the “Gold & Fish” brochure.

REGULATORY INFORMATION

Rules, Regulations and Forms – Surface Mining Reclamation and Oil and Gas Conservation Acts and accompanying rules, regulations, fees, and forms. [ONLINE]

SCENARIO EARTHQUAKES FOR WASHINGTON STATE

Emergency management experts have created a series of reports on seismic zones at risk of a major earthquake in Washington State. These reports discuss the most likely size and type of earthquake and the amount and location of damage expected. The most up-to-date version of these data can be found in our [Geologic Hazard Maps](#) page on our website. Reports are available for the following:

[Boulder Creek](#) in Whatcom County (M6.8)
[Canyon River–Saddle Mountain](#) in Mason County (M7.4)
[Cascadia](#) (M9.0)
[Cascadia North](#) (M8.3)
[Chelan](#) (M7.2)
[Cle Elum](#) (M6.8)
[Darrington–Devils Mountain](#) (M7.1)
[Darrington–Devils Mountain West](#) (M7.4)
[Hite](#) in Walla Walla County (M6.8)
[Lake Creek–Boundary Creek](#) in Clallam County (M6.8)
[Mill Creek](#) in Yakima County (M7.1)
[Nisqually](#) (M7.2)
[Olympia](#) (M5.7)
[Saddle Mountain](#) in south-central Washington (M7.4)
[SeaTac](#) (M7.2)
[Seattle](#) (M7.2)
[Latah](#) in Spokane County (M5.5)
[Mount St. Helens](#) (M7.0)
[southern Whidbey Island](#) (M7.4)
[Tacoma](#) (M7.1)

TOPOGRAPHIC INDEXES FOR WASHINGTON STATE

We have scanned our collection of U.S. Geological Survey topographic quadrangle indexes and catalogs for Washington State. Some quadrangle names have changed over the years. These indexes provide a historical record of the evolution of topographic mapping in Washington State. [1996] [1987] [1983] [1982] [1980] [1976] [1974] [1973] [1965] [1960] [1959] [1958] [1957] [1956] [1955] [1953] [1941] [1933] [1914] [1903]

Washington State Historic Topographic Maps—Inventory held by the Washington Geology Library. This is a list of topographic maps by the USGS and Army Map Service at scales of 1:24,000, 1:25,000, 1:62,500, and 1:125,000. The maps themselves are not online, but the inventory will tell you what we have on hand before you make the trip to Olympia. [ONLINE]

You may be able to find scans of historic topographic maps at the USGS Historical Topographic Map Collection at <http://nationalmap.gov/historical/>.

For more information on the topographic mapping of Washington State, see the article in *Washington Geology* [v. 20, no. 1, p. 41].

HISTORICAL FIELD NOTEBOOK COLLECTION

We have scanned our collection of field notebooks dating back to the first years of the Survey in 1899. This digitized collection includes field notebooks, maps, theses, and other publications that are out-of-print and some that may never have been published. These notebooks document geologic insights and records of mineral resources across Washington State. [ONLINE]

■ OTHER PUBLICATIONS ■

Other publications are available online only.

TSUNAMI EVACUATION WALK TIME MAPS

Washington Geological Survey, 2019, Aberdeen, Hoquiam, and Cosmopolis Tsunami Evacuation Walk Times: Washington Department of Natural Resources, Washington Geological Survey, 1 sheet. [[ONLINE](#)]

Washington Geological Survey, 2019, Anacortes Tsunami Evacuation Walk Times: Washington Department of Natural Resources, Washington Geological Survey, 1 sheet. [[ONLINE](#)]

Washington Geological Survey, 2019, Bellingham Tsunami Evacuation Walk Times: Washington Department of Natural Resources, Washington Geological Survey, 1 sheet. [[ONLINE](#)]

Washington Geological Survey, 2019, Ilwaco and Cape Disappointment Tsunami Evacuation Walk Times: Washington Department of Natural Resources, Washington Geological Survey, 1 sheet. [[ONLINE](#)]

Washington Geological Survey, 2019, Long Beach and Seaview Tsunami Evacuation Walk Times: Washington Department of Natural Resources, Washington Geological Survey, 1 sheet. [[ONLINE](#)]

Washington Geological Survey, 2019, Port Angeles Tsunami Evacuation Walk Times: Washington Department of Natural Resources, Washington Geological Survey, 1 sheet. [[ONLINE](#)]

Washington Geological Survey, 2019, Port Townsend Tsunami Evacuation Walk Times: Washington Department of Natural Resources, Washington Geological Survey, 1 sheet. [[ONLINE](#)]

Washington Geological Survey, 2019, Westport Tsunami Evacuation Walk Times: Washington Department of Natural Resources, Washington Geological Survey, 1 sheet. [[ONLINE](#)]

Washington Geological Survey, 2022, Cranberry Road to Ocean Park Tsunami Evacuation Walk Times: Washington Department of Natural Resources, Washington Geological Survey, 1 sheet. [[ONLINE](#)]

Washington Geological Survey, 2022, Leadbetter Point Tsunami Evacuation Walk Times: Washington Department of Natural Resources, Washington Geological Survey, 1 sheet. [[ONLINE](#)]

Washington Geological Survey, 2022, North Cove to Shoalwater Bay Tsunami Evacuation Walk Times: Washington Department of Natural Resources, Washington Geological Survey, 1 sheet. [[ONLINE](#)]

Washington Geological Survey, 2022, Ocean Park to Leadbetter State Park Tsunami Evacuation Walk Times: Washington Department of Natural Resources, Washington Geological Survey, 1 sheet. [[ONLINE](#)]

Washington Geological Survey, 2022, Tokeland Peninsula Tsunami Evacuation Walk Times: Washington Department of Natural Resources, Washington Geological Survey, 1 sheet. [[ONLINE](#)]

Washington Geological Survey, 2022, North Ocean Shores Tsunami Evacuation Walk Times: Washington Department of Natural Resources, Washington Geological Survey, 1 sheet. [[ONLINE](#)]

Washington Geological Survey, 2022, Grayland Tsunami Evacuation Walk Times: Washington Department of Natural Resources, Washington Geological Survey, 1 sheet. [[ONLINE](#)]

Washington Geological Survey, 2023, La Push Tsunami Evacuation Walk Times: Washington Department of Natural Resources, Washington Geological Survey, 1 sheet. [[ONLINE](#)]

Washington Geological Survey, 2023, Copalis Beach to Pacific Beach Tsunami Evacuation Walk Times: Washington Department of Natural Resources, Washington Geological Survey, 1 sheet. [[ONLINE](#)]

Washington Geological Survey, 2023, Ocean City to Copalis Beach Tsunami Evacuation Walk Times: Washington Department of Natural Resources, Washington Geological Survey, 1 sheet. [[ONLINE](#)]

Washington Geological Survey, 2023, Hoh Tsunami Evacuation Walk Times: Washington Department of Natural Resources, Washington Geological Survey, 1 sheet. [[ONLINE](#)]

Washington Geological Survey, 2023, Queets Tsunami Evacuation Walk Times: Washington Department of Natural Resources, Washington Geological Survey, 1 sheet. [[ONLINE](#)]

Washington Geological Survey, 2023, Taholah Tsunami Evacuation Walk Times: Washington Department of Natural Resources, Washington Geological Survey, 1 sheet. [[ONLINE](#)]

Washington Geological Survey, 2023, Moclips Tsunami Evacuation Walk Times: Washington Department of Natural Resources, Washington Geological Survey, 1 sheet. [[ONLINE](#)]

■ OTHER PUBLICATIONS ■

Other publications are available online only.

WILDFIRE-ASSOCIATED LANDSLIDE EMERGENCY RESPONSE TEAM (WALERT) REPORTS

Burned Area Emergency Response (BAER) Norse Peak and American Fires, Geology: Landslides, by Stephen Slaughter and Trevor Contreras. 2017. 18 p. text. [[ONLINE](#)]

Burned Area Emergency Response (BAER) Jolly Mountain Fire, Geology: Landslides, by Stephen Slaughter and Trevor Contreras. 2017. 11 p. text. [[ONLINE](#)]

Crescent Mountain Fire Twisp River Debris Flow Evaluation, by Trevor Contreras. 2018. 16 p. text. [[ONLINE](#)]

Burned Area Emergency Response (BAER) Cougar Creek Fire, Geology: Entiat River Road Debris Flow Evaluation, by Stephen Slaughter and Trevor Contreras. 2018. 19 p. text. [[ONLINE](#)]

Wildfire-associated Landslide Emergency Response Team (WaLERT) Report for the Left Hand Fire, by Trevor Contreras and William Gallin. 2019. 15 p. text. [[ONLINE](#)]

Evans Canyon Fire, Wenas and Untanum Creeks, Yakima and Kittitas Counties, Washington, by Trevor Contreras and Emilie Richard. 2020. 1 sheet, with 5 p. text. [[ONLINE](#)]

Twentyfive Mile Fire, Chelan County, Washington, by Trevor Contreras and Katherine Mickelson. 2021. 6 p. text. [[ONLINE](#)]

Muckamuck Fire, Okanogan County, Washington, by Trevor Contreras and Katherine Mickelson. 2021. 1 sheet, with 7 p. text. [[ONLINE](#)]

Schneider Springs Fire, Yakima County, Washington, by Trevor Contreras, William Gallin, Katherine Mickelson, and Kara Jacobacci. 2021. 7 p. text. [[ONLINE](#)]

Ford Corkscrew Fire, Stevens County, Washington, by Trevor Contreras and Mitchell Allen. 2021. 1 sheet, with 6 p. text. [[ONLINE](#)]

Cedar Creek and Cub Creek 2 Fires, Okanogan County, Washington, by Trevor Contreras and Kate Mickelson. 2021. 2 sheets, with 14 p. text. [[ONLINE](#)]

Lick Creek and Silcott Fires, Asotin and Garfield Counties, Washington, by Trevor Contreras and Kara Jacobacci. 2021. 3 sheets, with 8 p. text. [[ONLINE](#)]

Red Apple Fire, Burch Mountain, Chelan County, Washington, by Trevor Contreras and Emilie Richard. 2021. 1 sheet with 10 p. text. [[ONLINE](#)]

Chuweah Creek Fire, Nespelem Water Tanks, Okanogan County, Washington, by Trevor Contreras. 2021. 8 p. text. [[ONLINE](#)]

Bolt Creek, Suiattle River, Boulder Lake, and Lake Toketie Fires, King and Snohomish Counties, Washington, by Kate Mickelson and Mitchell Allen. 2022. 10 p. text. [[ONLINE](#)]

Newell Road Fire, Klickitat County, Washington, by Kate Mickelson and Emilie Richard. 2023. 1 sheet, with 6 p. text. [[ONLINE](#)]

Eagle Bluff Fire, Okanogan County, Washington, by Mitchell Allen and Josh Hardesty. 2023. 1 sheet, with 6 p. text. [[ONLINE](#)]

Sourdough and Blue Lake Fires, Whatcom and Chelan Counties, Washington, by Josh Hardesty and Kara Fisher. 2023. 2 sheets, with 10 p. text. [[ONLINE](#)]

SCHOOL SEISMIC SAFETY PROGRAM

Legislative Reports

School Seismic Safety Project Phase 1 (2017–2019) Progress Report, by D. K. Norman and Joanna Eide, 2018. 187 p. text. [[ONLINE](#)]

School Seismic Safety Project Phase 1 (2017–2019) Final Legislative Report, by Washington Geological Survey. 2019. 88 p. text. [[ONLINE](#)]

School Seismic Safety Project Phase 2 (2019–2021) Final Legislative Report, by Washington Geological Survey. 2021. 147 p. text. [[ONLINE](#)]