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Publications of the Washington Geological Survey

January 2025



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](#)]

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.

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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.

PUBLICATION SERIES DESCRIPTIONS

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)

Washington Geological Survey

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|-----|---|--------------|--------------------------------------|---|--------------|
| 1. | Geology and ore deposits of Republic mining district, by J. B. Umpleby. 1910. 66 p., 13 pl., 5 figs. [ONLINE] | Out of print | 21. | The mineral resources of Washington, with statistics for 1919, by E. N. Patty and S. L. Glover. 1921. 155 p., 13 pl., 3 figs. [ONLINE] | Out of print |
| 2. | The road materials of Washington, by Henry Landes. 1911. 204 p., 17 pl., 51 figs. [ONLINE] | Out of print | 22. | The road building sands and gravels of Washington, by M. M. Leighton. 1919. 307 p., 9 pl., 36 figs. [ONLINE] | Out of print |
| 3. | The coal fields of King County, by G. W. Evans. 1912. 247 p., 23 pl., 59 figs. [ONLINE] | Out of print | 23. | The metal mines of Washington, by E. N. Patty. 1921. 366 p., 36 pl., 27 figs. [PART 1] [PART 2] | Out of print |
| 4. | Cement materials and industry in Washington, by Solon Shedd. 1913. 268 p., 21 pl., 10 figs. [PART 1] [PART 2] | Out of print | Division of Geology | | |
| 5. | Part I. Geology and ore deposits of the Myers Creek mining district; Part II. Geology and ore deposits of the Oroville–Nighthawk mining district, by J. B. Umpleby. 1911. 113 p., 3 pl., 5 figs. [ONLINE] | Out of print | 24. | Clays and shales of Washington, by S. L. Glover. 1941. 368 p., 14 pl., 6 figs. [PART 1] [PART 2] | Out of print |
| 6. | Geology and ore deposits of the Blewett mining district, by C. E. Weaver. 1911. 104 p., 10 pl., 1 fig. [ONLINE] | Out of print | 25. | The magnesite deposits of Washington, their occurrence and technology, by G. E. Whitwell and E. N. Patty. 1921. 194 p., 13 pl., 5 figs. [ONLINE] | Out of print |
| 7. | Geology and ore deposits of the Index mining district, by C. E. Weaver. 1912. 96 p., 7 pl. [ONLINE] | Out of print | 26. | Underground water supply of the region about White Bluffs and Hanford, by O. P. Jenkins. 1922. 41 p., 3 pl., 1 fig. [ONLINE] | Out of print |
| 8. | Glaciation of the Puget Sound region, by J. H. Bretz. 1913. 244 p., 24 pl., 27 figs. [ONLINE] | Out of print | 27. | Iron ores, fuels, and fluxes of Washington, by Solon Shedd, O. P. Jenkins, and H. H. Cooper. 1922. 160 p., 1 pl., 11 figs. [ONLINE] | Out of print |
| 9. | The coal fields of Kittitas County, by E. J. Saunders. 1914. 204 p., 38 pl., 52 figs. [ONLINE] | Out of print | 28. | Geological investigation of the coal fields of western Whatcom County, Washington, by O. P. Jenkins. 1923. 135 p., 4 pl., 2 figs. [ONLINE] | Out of print |
| 10. | The coal fields of Pierce County, by Joseph Daniels. 1914. 146 p., 30 pl., 23 figs. [ONLINE] | Out of print | 29. | Geological investigation of the coal fields of Skagit County, Washington, by O. P. Jenkins. 1924. 63 p., 7 pl., 5 figs. [ONLINE] | Out of print |
| 11. | The mineral resources of Washington, with statistics for 1912, by Henry Landes. 1914. 53 p., 1 pl. [ONLINE] | Out of print | 30. | The mineral resources of Washington, with statistics for 1922, by Solon Shedd, with an article on coal and coke by G. W. Evans. 1924. 224 p., 3 figs. [ONLINE] | Out of print |
| 12. | Bibliography of Washington geology and geography, by Gretchen O'Donnell. 1913. 63 p.
<i>Superseded by the online bibliography.</i> | Out of print | 31. | Lead deposits of Pend Oreille and Stevens Counties, Washington, by O. P. Jenkins. 1924. 153 p., 3 pl., 15 figs. [ONLINE] | Out of print |
| 13. | The Tertiary formations of western Washington, by C. E. Weaver. 1916. 327 p., 30 figs., 3 pl. [PART 1] [PART 2] | Out of print | 32. | Geology of Washington, by H. E. Culver. (Part I: General features of Washington geology; to accompany the preliminary geologic map, 1936). 1936. 70 p. [ONLINE] | Out of print |
| 14. | A preliminary report on the Quincy Valley Irrigation Project, by Henry Landes, A. W. Mangum, H. K. Benson, E. J. Saunders, and Joseph Jacobs. 1912. 49 p., 7 pl. [ONLINE] | Out of print | 33. | Nonmetallic mineral resources of Washington, with statistics for 1933, by S. L. Glover. 1936. 135 p. [ONLINE] | Out of print |
| 15. | A preliminary report on the Tertiary paleontology of western Washington, by C. E. Weaver. 1912. 80 p., 16 pl. [ONLINE] | Out of print | 34. | Tungsten resources of Washington, by H. E. Culver and W. A. Broughton. 1945. 89 p., 23 pl., 9 figs. [ONLINE] | Out of print |
| 16. | Geology and ore deposits of the Covada mining district, by C. E. Weaver. 1913. 87 p., 5 pl., 3 figs. [ONLINE] | Out of print | 35. | Bibliography and index of geology and mineral resources of Washington, 1814–1936, by W. A. G. Bennett. 1939. 140 p.
<i>Superseded by the online bibliography.</i> | Out of print |
| 17. | A geographic dictionary of Washington, by Henry Landes. 1917. 346 p., 10 pl. [PART 1] [PART 2] | Out of print | Division of Mines and Geology | | |
| 18. | The country about Camp Lewis, by M. M. Leighton. 1918. 105 p., 12 pl., 6 figs. [ONLINE] | Out of print | 36. | Geology and ore deposits of the Sultan Basin, Snohomish County, Washington, by Ward Carithers and A. K. Guard. 1945. 90 p., 3 pl., 18 figs. [ONLINE] | Out of print |
| 19. | The coal fields of southwestern Washington, by H. E. Culver. 1919. 155 p., 24 pl., 12 figs. [ONLINE] | Out of print | 37. | Inventory of Washington minerals:
Part I. (2nd ed.) Nonmetallic minerals, by G. M. Valentine, revised by M. T. Huntting. 1960. 2 v. (v. 1, 175 p. text; v. 2, maps, 39 pl.). [TEXT] [MAPS] | In print |
| 20. | The mineral resources of Stevens County, by C. E. Weaver. 1920. 350 p., 20 pl., 14 figs. [PART 1] [PART 2] | Out of print | | Part II. Metallic minerals, by M. T. Huntting. 1956. 2 v. (v. 1, 428 p. text; v. 2, maps, 67 p. text, 27 pl.). [PART 1, PART 2, PART 3, PART 4, MAPS] | Out of print |

BULLETINS

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| <p>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]</p> | Out of print | <p>57. Mines and mineral deposits of Whatcom County, Washington, by W. S. Moen. 1969. 134 p., 14 pl., 44 figs. [PART 1] [PART 2]</p> | Out of print |
| <p>39. Antimony occurrences of Washington, by C. P. Purdy Jr. 1951. 186 p., 14 figs. [ONLINE]</p> | Out of print | <p>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]</p> | Out of print |
| <p>40. Geology of the Bead Lake district, Pend Oreille County, Washington, by M. C. Schroeder. 1952. 57 p., 1 pl., 6 figs. [ONLINE]</p> | Out of print | <p>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></p> | Out of print |
| <p>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]</p> | Out of print | <p>60. Cenozoic volcanism in the Cascade Mountains of southern Washington, by W. S. Wise. 1970. 45 p., 1 pl., 14 figs. [ONLINE]</p> | Out of print |
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BULLETINS

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| 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.
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| 77. | Selected papers on the geology of Washington, edited by J. E. Schuster. 1987. 406 p. [PART 1] [PART 2] [PART 3] | In print | Washington Geological Survey | | |
| 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] | In print | 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] | Web only |

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only | 4. | Pacific Northwest Tertiary foraminiferal collections of the U.S. Geological Survey and the state of Washington, by W. W. Rau. 2004. 1 Microsoft Excel spreadsheet with 9 p. text as a PDF file. [ONLINE] | Web
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| The Washington Geology Library. 2015. 2 p.
[ONLINE] | Web
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[ONLINE] | In
print | 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] | Web
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| 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] | Web
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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-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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| 82. Earthquake hypocenters in Washington and northern Oregon—1980, compiled by Anthony Qamar, Anne Rathbun, R. S. Ludwin, R. S. Crosson, and S. D. Malone. 1986. 64 p., 9 figs. [ONLINE] | In
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| 83. Earthquake hypocenters in Washington and northern Oregon—1981, compiled by Anthony Qamar, Anne Rathbun, R. S. Ludwin, L. L. Noson, R. S. Crosson, and S. D. Malone. 1987. 50 p., 8 figs. [ONLINE] | In
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| 84. Earthquake hypocenters in Washington and northern Oregon—1982–1986, compiled by Anthony Qamar, R. S. Ludwin, R. S. Crosson, and S. D. Malone. 1987. 78 p., 10 figs. [ONLINE] | Out of
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| 85. Washington State earthquake hazards, by L. L. Noson, Anthony Qamar, and G. W. Thorsen. 1988. 77 p., 47 figs. [ONLINE] | In
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| 86. Geologic guidebook for Washington and adjacent areas, edited by N. L. Joseph and others. 1989. 369 p. [loose-leaf only] [ONLINE] | Out of
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| 87. Directory of Washington mining operations, 1992, by W. S. Lingley Jr. and C. J. Manson. 1992. 76 p., 6 figs. [ONLINE] | Out of
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| 88. Roadside geology of Mount St. Helens National Volcanic Monument and vicinity, by P. T. Pringle. 1993. 132 p., 70 figs. [Revised 2002.] [WHOLE BOOK] [PART 1] [PART 2] | Out of
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| 89. Earthquake hypocenters in Washington and northern Oregon, 1987–1989, and Operation of the Washington Regional Seismograph Network, by R. S. Ludwin, A. I. Qamar, S. D. Malone, C. Jonientz-Trisler, R. S. Crosson, Richard Benson, and S. C. Moran. 1994. 40 p., 13 figs., 11 tables. [ONLINE] | In
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2014-02	Geologic map of the Center 7.5-minute quadrangle, Jefferson County, Washington, by M. P. Polenz, H. O. Gordon, I. J. Hubert, T. A. Contreras, A. I. Patton, Gabriel Legorreta Paulin, and Recep Cakir. 2014. 42 x 36 in. color plate, scale 1:24,000, with 35 p. text. [ONLINE]	In print	2017-01	Geologic map of the Littlerock 7.5-minute quadrangle, Thurston County, Washington, by Michael Polenz, J. L. Vermeer, Gabriel Legorreta Paulin, J. H. Tepper, S. A. Mahan, and Recep Cakir. 2017. 42 x 36 in. color plate, scale 1:24,000, with 36 p. text. [ONLINE]	Web only
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- 25-0. Geology and resources of the Pasco and Prosser quadrangles, by Solon Shedd. 1925. 125 p., 1 pl. [\[PART 1\]](#) [\[PART 2\]](#) [\[PART 3\]](#) Web only

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- 1961 Open-file report of analyses of Washington limestone, samples collected in 1959-1960, by Washington Division of Mines and Geology. 1961. 20 p. [\[ONLINE\]](#) Web only
- 68-1. Washington State coastal wells, by W. W. Rau. 1968. 1 sheet (chart). [\[ONLINE\]](#) Web only
Superseded by Report of Investigations 26.
- 69-0. Compilation of geologic mapping in Washington through 1968—A continuation of Leona Boardman's index to geologic mapping in Washington; also, Geologic maps from theses on Washington geology, by W. H. Reichert. 1969. 43 p., 11 maps, scale 1:1,000,000. Lib. use only
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- 69-2. Analyses of stream sediment samples in Washington for copper, molybdenum, lead, and zinc, by W. S. Moen. 1969. 91 p. (including 15 tables), 39 pl., scale 1:125,000. [\[PART 1\]](#) [\[PART 2\]](#) [\[PART 3\]](#) [\[PART 4\]](#) [\[PART 5\]](#) [\[PART 6\]](#) [\[PART 7\]](#) [\[PART 8\]](#) [\[PART 9\]](#) Web only
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2010-6	Supplement to GM-76, Geologic map of the Cliffdell and western two-thirds of the Manastash Lake 7.5-minute quadrangles, Yakima and Kittitas Counties, Washington, by P. E. Hammond. 2010. 1 Microsoft Excel file. [ONLINE]	Web only	2011-7	Washington State School Seismic Safety Pilot Project—Providing safe schools for our students, by T. J. Walsh, J. D. Schelling, and the Washington State Seismic Safety Committee. 2011. 14 p. [ONLINE]	In print
2010-7	Directory of Washington State surface mining reclamation sites – 2010, by T. C. Duerr. 2010. 282 p. [ONLINE]	Web only	2012-01	Remotely operated vehicle (ROV) video investigation of two large seafloor mounds in southern Hood Canal, Washington, by Recep Cakir, R. L. Logan, C. N. Johnson, T. J. Walsh, Todd Palzer, R. E. Pacunski, James Beam, and Lisa Hillier. 2012. 14 p. plus 6 shapefiles. [ONLINE]	Web only
2011-1	Geologic map of the Monroe 7.5-minute quadrangle, King and Snohomish Counties, Washington, by J. D. Dragovich, M. L. Anderson, S. A. Mahan, C. J. Koger, J. H. Saltonstall, J. H. MacDonald Jr., G. R. Wessel, B. A. Stoker, J. P. Bethel, J. E. Labadie, Recep Cakir, J. D. Bowman, and S. A. DuFrane. 2011. 42 x 36 in. color sheet, scale 1:24,000, with 24 p. text. [ONLINE]	Web only	2012-02	Oil and gas wells in Washington State, by J. L. Czajkowski, J. D. Bowman, J. E. Schuster, and C. M. Wheeler. 2012., rev. 2015, 1 Microsoft Excel file with 4 p. text. [ONLINE]	Web only
2011-2	Analytical data from the Monroe 7.5-minute quadrangle, King and Snohomish Counties, Washington—Supplement to Open File Report 2011-1, by J. D. Dragovich, S. A. Mahan, M. L. Anderson, J. H. MacDonald Jr., G. R. Wessel, S. A. DuFrane, Recep Cakir, J. D. Bowman, and H. A. Littke. 2011. 61 p., 2 plates, and 2 Microsoft Excel files. [ONLINE]	Web only	2013-01	Passive seismic analyses in the Sultan 7.5-Minute quadrangle, King and Snohomish Counties, Washington, by Koichi Hayashi, Recep Cakir, J. D. Dragovich, B. A. Stoker, T. J. Walsh, and H. A. Littke. 2013. 9 p. [ONLINE]	Web only
			2014-01	Geologic mapping and geothermal assessment of the Wind River valley, Skamania County, Washington, by J. L. Czajkowski, J. D. Bowman, L. A. Fusso, and D. E. Boschmann. 2014. 30 p. with 42 x 42 in. color plate, scale 1:24,000. [ONLINE]	Web only
			2014-02	Geothermal favorability model of Washington State, by D. E. Boschmann, J. L. Czajkowski, and J. D. Bowman. 2014. 20 p. with 48 x 36 in. color plate, scale 1:900,000. [ONLINE]	Web only
			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.

OPEN FILE REPORTS

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- 2014-04 Models of bedrock elevation and unconsolidated sediment thickness in the Puget Lowland, Washington, by D. W. Eungard. 2014. 2 plates, scale 1:475,000, with 20 p. text. [[ONLINE](#)] Web only
- 2014-05 Faults and earthquakes in Washington State, by J. L. Czajkowski and J. D. Bowman. 2014. 36 x 45 color sheet, scale 1:750,000. [[ONLINE](#)] Web only
- 2019-01 Report on site class assessments for the Washington State School Seismic Safety Project, by L. T. West, Travis Neilson, and Corina Forson. 2019. 214 p. text. [[ONLINE](#)] Web only
- 2020-01 Earthquake regional impact analysis for Columbia County, Oregon and Clark County, Washington, by J. M. Bauer, Recep Cakir, Corina Allen, Kate Mickelson, Trevor Contreras, Robert Hairston-Porter, and Yumei Wang. 2020. 93 p. text, 14 plates, 3 Esri file geodatabases. [[ONLINE](#)] Web only
- 2022-01 Surficial geologic map of the Sadie Creek fault, Clallam County, Washington, by W. C. Duckworth, Y. E. Perez, C. B. Amos, E. R. Schermer, and Michael Polenz. 2022. 60 x 30 in. color sheet, scale 1:10,000. [[ONLINE](#)] Web only
- Note:* STATEMAP 7.5-minute quadrangles from 2012 through the present have been published under the new [Map Series](#).

REPORTS OF INVESTIGATIONS

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Division of Mines and Mining

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| 1. | Olympic Peninsula manganese, by J. W. Melrose. 1940. 30 p. [ONLINE] | Out
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print | 10. | The Blewett iron deposit, Chelan County, Washington (with preliminary tonnage estimates), by W. A. Broughton. 1943. 17 p., 1 pl., 2 figs. [ONLINE] | Out
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print |
| 2. | Washington iron ores, a summary report, by S. L. Glover. 1942. 23 p. [ONLINE] | Out
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print | 11. | Stratigraphic aspects of the Blewett–Cle Elum iron ore zone, Chelan and Kittitas Counties, Washington, by R. L. Lupper. 1944. 63 p., 2 pl. [ONLINE] | Out
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print |
| 3. | Mineral resources of the Wenatchee–Ellensburg–Yakima region, by S. L. Glover. 1942. 13 p. [ONLINE] | Out
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print | 12. | Economic aspects of the Blewett–Cle Elum iron ore zone, Chelan and Kittitas Counties, Washington, by W. A. Broughton. 1944. 42 p., 7 pl., 14 figs. [ONLINE] | Out
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print |
| 4. | Coal and coal mining in Washington, by S. H. Green. 1943. 41 p., 3 figs. [ONLINE] | Out
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print | 13. | Dolomite resources of Washington, by W. A. G. Bennett. 1944. 35 p., 12 pl., 2 figs. [ONLINE] | Out
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print |
| 4R. | Coal and coal mining in Washington, by S. H. Green. 1947. 41 p., 3 figs. [Revision of RI 4.] [ONLINE] | Out
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print | 14. | Some magnetite deposits of Stevens and Okanogan Counties, Washington, by W. A. Broughton. 1945. 24 p., 5 pl., 1 fig. [ONLINE] | Out
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print |
| 5. | Memorandum report on iron ores of the Cle Elum district, Washington, by Carl Zappfe. 1944. 27 p., 2 pl., 5 figs. [ONLINE] | Out
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print | Division of Mines and Geology | | |
| 6. | Relation of geology to mineralization in the Morton cinnabar district, Lewis County, Washington, by J. H. Mackin. 1944. 47 p., 2 pl., 13 figs. [ONLINE] | Out
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print | 15. | Pumice and pumicite occurrences of Washington, by Ward Carithers. 1946. 78 p., 6 pl., 7 figs. [ONLINE] | Out
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| 7. | Manganese deposits of the Olympic Peninsula, Washington, by S. H. Green. 1945. 45 p., 5 pl., 1 fig. [ONLINE] | Out
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print | 16. | Origin and occurrence of gem stones in Washington, by S. L. Glover. 1949. 32 p. [ONLINE] | Out
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Division of Geology

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| 1. | Abstract of the report [by Solon Shedd] on the geology and resources of the Pasco and Prosser quadrangles, by H. E. Culver. 1926. 7 p., 1 pl., 29 x 22 in., scale 1:125,000. [ONLINE] | Out
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print | 18. | Molybdenum occurrences of Washington, by C. P. Purdy Jr. 1954. 118 p., 13 pl., 4 figs. [ONLINE] | Out
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print |
| 2. | Oil and gas possibilities of western Whatcom County, by S. L. Glover. 1935. 69 p., 1 pl., 1 fig. [ONLINE] | Out
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print | 19. | A stratigraphic section in the Yakima Basalt and the Ellensburg Formation in south-central Washington, by J. H. Mackin. 1961. 5 p., 9 pl., 4 figs. [ONLINE] | Out
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print |
| 3. | A report on a geologic reconnaissance of the St. Helens mining district, Washington, by Everett Hougland. 1935. 4 p., 1 fig., 1 pl., 18 x 19 in. [ONLINE] | Out
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print | 20. | Geological interpretation of airborne magnetometer and scintillometer survey—Mt. Bonaparte, Bodie Mountain, Curlew, Aeneas, and Republic quadrangles, Okanogan and Ferry Counties, Washington, by Hunting Geophysical Services, Inc. 1960. 34 p., 25 pl., 2 figs. [ONLINE] | Out
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print |
| 4. | Preliminary report on petroleum and natural gas in Washington, by S. L. Glover. 1936. 24 p., 1 pl. [ONLINE] | Out
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print | 21. | Stratigraphy of Eocene rocks in a part of King County, Washington, by J. D. Vine. 1962. 20 p., 3 figs. [ONLINE] | Out
of
print |
| 5. | Preliminary report on magnesite deposits of Stevens County, Washington, by W. A. G. Bennett. 1941. 25 p., 2 pl., 1 fig. [ONLINE] | Out
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print | 22. | Tertiary geologic history of western Oregon and Washington, by P. D. Snavely Jr. and H. C. Wagner. 1963. 25 p., 23 figs. [ONLINE] | Out
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print |
| 6. | Inventory of mineral properties in Snohomish County, Washington, by W. A. Broughton. 1942. 64 p., 1 pl. [Accompanied by Index to mineral properties of Snohomish County. 1942. 8 p., tables.] [ONLINE] | Out
of
print | 23. | Mineralogy of black sands at Grays Harbor, Washington, by G. W. Thorsen. 1964. 29 p., 6 figs. [ONLINE] | Out
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print |
| 7. | Character and tonnage of the Turk magnesite deposit, by W. A. G. Bennett. 1943. 22 p., 1 pl., 1 fig. [ONLINE] | In
print | Division of Geology and Earth Resources | | |
| 8. | The Buckhorn iron deposits of Okanogan County, Washington; Results of a magnetic survey, by W. A. Broughton. 1943. 21 p., 1 pl., 4 figs. [ONLINE] | Out
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print | 24. | Mount St. Helens ash—Properties and possible uses, by W. S. Moen and G. B. McLucas. 1981. 60 p., 28 figs. [ONLINE] | In
print |
| 9. | Inventory of mineral properties in Chelan County, Washington, by M. T. Huntting. 1943. 63 p., 1 pl. [ONLINE] | Out
of
print | 25. | A cross section of a Nevada-style thrust in northeast Washington, by J. R. Snook, H. E. Lucas, and M. J. Abrams. 1981. 9 p., 2 figs. [ONLINE] | Out
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print |

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](#)]
46. Alluvial fan inventory of Chelan County, Washington, by K. A. Mickelson, B. D. Kellermann, W. G. Medwedeff, Cora Siebert, Kara Fisher, and E. M. Richard. 2024. 6 p. text [[ONLINE](#)]

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REPRINTS

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|----|---|----------|-----|--|----------|
| 1. | Ringold Formation of Pleistocene age in type locality, the White Bluffs, Washington, by R. C. Newcomb. 1958. 14 p. [ONLINE] | Web only | 6. | Geology of the Jumbo Mountain nickel deposit, Snohomish County, Washington, by J. W. Mills. 1960. 4 p. [ONLINE] | Web only |
| 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] | Web only | 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] | Web only |
| 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] | Web only | 8. | Emplacement of the Twin Sisters Dunite, Washington, by D. M. Ragan. 1963. 16 p. [ONLINE] | Web only |
| 4. | Nickel-gold ore of the Mackinaw mine, Snohomish County, Washington, by Charles Milton and D. J. Milton. 1959. 22 p. [ONLINE] | Web only | 9. | Mineral and water resources of Washington, by the U.S. Geological Survey and others. 1966. 436 p. [ONLINE] | Web only |
| 5. | What are the prospects in Washington State?, by F. H. Würden; and Puget Sound area has several prospective oil and gas basins, by J. Q. Anderson. 1959. 10 p. [ONLINE] | Web only | 10. | Washington mineral deposits, by M. T. Huntting. 1966. 7 p. [ONLINE] | Web only |
| | | | 11. | The search for hot rocks—Geothermal exploration, Northwest, by J. E. Schuster. 1973. 3 p. [ONLINE] | Web only |
| | | | 12. | Geology of Washington, by the U.S. Geological Survey. 1978. 51 p., 1 pl. [ONLINE] | Web only |
| | | | 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] | Web only |

RESOURCE MAPS

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

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|----|---|----------|----|--|----------|
| 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] | In print | 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] | In print |
| 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] | In print | | | |

TOPOGRAPHIC MAPS

Topographic Maps are available online only.

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| 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] | Web only | 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] | Web only |
| 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] | Web only | | | |

MISCELLANEOUS REPORTS

Miscellaneous Reports are available online only.

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]	Web only	Notes on division history, by J. E. Schuster. 1986. 9 p. [ONLINE]	Web only
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]	Web only	Gems and minerals of Washington, by Bob Pattie. 1985. 1 sheet, scale 1:443,520. [ONLINE]	Web 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
		“Firsts,” 1957–1964—Division of Mines and Geology, by M. T. Huntting? 1964? 2 p. [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
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
State Department of Conservation has record year [1962], by M. T. Huntting. 1963. 7 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
Mineral exploration in Washington—1960, by M. T. Huntting. 1961? 2 p. [ONLINE]	Web only
Washington mineral industry—1960, by M. T. Huntting. 1961? 5 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
Mining in Washington, by C. P. Purdy, Jr. 1953. 3 p. [ONLINE]	Web only
Steilacoom gravel, by S. H. Green and M. T. Huntting. 1948. 9 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
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
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
Oil and gas studies by the Division of Geology, by S. L. Glover. 1936. 8 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
Colloidal fuel, by M. C. Butler. 1934. 9 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](#)]

Washington Geological Survey, 2024, Dungeness Tsunami Evacuation Walk Times: Washington Department of Natural Resources, Washington Geological Survey, 1 sheet. [[ONLINE](#)]

Washington Geological Survey, 2024, Kalaloch Tsunami Evacuation Walk Times: Washington Department of Natural Resources, Washington Geological Survey, 1 sheet. [[ONLINE](#)]

Washington Geological Survey, 2024, Lower Elwha Klallam Tsunami Evacuation Walk Times: Washington Department of Natural Resources, Washington Geological Survey, 1 sheet. [[ONLINE](#)]

Washington Geological Survey, 2024, Neah Bay Tsunami Evacuation Walk Times: Washington Department of Natural Resources, Washington Geological Survey, 1 sheet. [[ONLINE](#)]

Washington Geological Survey, 2024, Tsoo-Yess River Valley 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](#)]

Retreat Fire, Yakima County, Washington, by Kate Mickelson, Emilie Richard, and Kara Fisher. 2024. 3 sheets, with 11 p. text. [[ONLINE](#)]

Pioneer Fire, Chelan County, Washington, by Josh Hardesty, Kate Mickelson, Nancy Calhoun, and Kara Fisher. 2024. 2 sheets, with 8 p. text. [[ONLINE](#)]

Easy Fire, Skagit and Okanogan Counties, Washington, by Josh Hardesty, Nancy Calhoun, and Kate Mickelson. 2024. 1 sheet, with 7 p. text. [[ONLINE](#)]

Thorp Road Fire, Yakima County, Washington, by Mitchell Allen, Kara Fisher, and Nancy Calhoun, 2025, 1 sheet, with 4 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](#)]