NATURAL RESOURCES

Publications of the Washington Geological Survey

June 2020

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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See map for street address

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URL: www.dnr.wa.gov/geology

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.

■ 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 Development*

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

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* 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.

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] — Out of print

Twelfth biennial report of the Department of Conservation and Development—October 1, 1942–September 30, 1944, by Ed Davis. 1944. 52 p. [ONLINE] — Out of print

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] — Out of print

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] — Out of print

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] — Out of print

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] — Out of print

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] — Out of print

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] — Out of print

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] — Out of print

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] — Out of print

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] — Out of print

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] — Out of print

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] — Out of print

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] — Out of print

[Biennial report no. 12 of the] Mines and Geology Division [1966-1968], by M. E. Felt. 1968? 5 p. [ONLINE] — Out of print

Department of Natural Resources
Division of Geology and Earth Resources

Geology for the decade 1980-1990, by Raymond Lasmanis. 1983. 67 p. [ONLINE] — Out of print

The Washington Division of Geology and Earth Resources—Geology in the public interest. 2003. 4 p. [ONLINE] — Out of print

The Washington Division of Geology and Earth Resources—Geology in the public interest. 2005. 4 p. [ONLINE] — Out of print

The Washington Division of Geology and Earth Resources—Geology in the public interest [short version]. 2005. 2 p. [ONLINE] — Out of print

The Washington Division of Geology and Earth Resources—Geology in the public interest. 2009. 4 p. [ONLINE] — Out of print

■ BULLETINS ■

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

Washington Geological Survey

1. Geology and ore deposits of Republic mining district, by J. B. Umpleby. 1910. 66 p., 13 pl., 5 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
3. The coal fields of King County, by G. W. Evans. 1912. 247 p., 23 pl., 59 figs. [ONLINE] — 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
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
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
7. Geology and ore deposits of the Index mining district, by C. E. Weaver. 1912. 96 p., 7 pl. [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
9. The coal fields of Kittitas County, by E. J. Saunders. 1914. 204 p., 38 pl., 52 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
11. The mineral resources of Washington, with statistics for 1912, by Henry Landes. 1914. 53 p., 1 pl. [ONLINE] — Out of print
12. Bibliography of Washington geology and geography, by Gretchen O'Donnell. 1913. 63 p. — Out of print

    Superseded by the online bibliography.
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
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
15. A preliminary report on the Tertiary paleontology of western Washington, by C. E. Weaver. 1912. 80 p., 16 pl. [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
17. A geographic dictionary of Washington, by Henry Landes. 1917. 346 p., 10 pl. [PART 1] [PART 2] — Out of print
18. The country about Camp Lewis, by M. M. Leighton. 1918. 105 p., 12 pl., 6 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
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
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
22. The road building sands and gravels of Washington, by M. M. Leighton. 1919. 307 p., 9 pl., 36 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

Division of Geology

24. Clays and shales of Washington, by S. L. Glover. 1941. 368 p., 14 pl., 6 figs. [PART 1] [PART 2] — 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
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
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
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
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
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
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
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
33. Nonmetallic mineral resources of Washington, with statistics for 1933, by S. L.69) Glover. 1936. 135 p. [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
35. Bibliography and index of geology and mineral resources of Washington, 1814–1936, by W. A. G. Bennett. 1939. 140 p. — Out of print

    Superseded by the online bibliography.

Division of Mines and Geology

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
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

    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 ■

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

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

39. Antimony occurrences of Washington, by C. P. Purdy Jr. 1951. 186 p., 14 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

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

42. Gold in Washington, by M. T. Huntting. 1955. 158 p., 2 figs. [ONLINE] — Web only

43. Eocene stratigraphy of the lower Cowlitz River–eastern Willapa Hills area, southwestern Washington, by D. A. Henriksen. 1956. 122 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

45. Washington's channeled scabland, by J H. Bretz. 1959. 57 p., 4 pl., 36 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. — Out of print

    Superseded by the online bibliography.

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

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

49. Saline lake deposits in Washington, by W. A. G. Bennett. 1962. 129 p. [ONLINE] — In 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

51. Barite in Washington, by W. S. Moen. 1964. 112 p., 2 pl. [ONLINE] — In print

52. Limestone resources of western Washington, by W. R. Danner. 1966. 474 p. [PART 1] [PART 2] [PART 3] — 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

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

55. Building stone of Washington, by W. S. Moen. 1967. 85 p. [ONLINE] — In 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

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

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

59. Bibliography and index of the geology and mineral resources of Washington, 1957–1962, by W. H. Reichert. 1969. 375 p. — Out of print

    Superseded by the online bibliography.

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

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

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

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

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

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

Division of Geology and Earth Resources

66. Geology of the Washington coast between Point Grenville and the Hoh River, by W. W. Rau. 1973. 58 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

68. Geology of the Methow Valley, Okanogan County, Washington, by J. D. Barksdale. 1975. 72 p., 1 pl., 17 figs. [ONLINE] — Out of print

69. Silver occurrences of Washington, by W. S. Moen. 1976. 188 p. [Reprinted 1982.] [ONLINE] — In print

70. Zinc and lead ore deposits in carbonate rocks, Stevens County, Washington, by J. W. Mills. 1977. 171 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

72. Washington coastal geology between the Hoh and Quillayute Rivers, by W. W. Rau. 1980. 57 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

■ BULLETINS ■

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

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] — In print

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] — In print

76. Bibliography and index of the geology and mineral resources of Washington, 1963–1980, compiled by C. J. Manson and Debbie Burnetti. 1983. 398 p. — Out of print

Superseded by the online bibliography.

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

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

79. Bibliography and index of the geology and mineral resources of Washington, 1981–1985, compiled by C. J. Manson. 1990. 484 p. — Out of print

Superseded by the online bibliography.

80. Regional Geology of Washington State, Raymond Lasmanis and E. S. Cheney, convenors. 1994. 227 p., 136 figs., 18 tables. [PART 1, PART 2] — Out of print

81. Bibliography and index of the geology and mineral resources of Washington, 1986–1990, by C. J. Manson. 1996. 476 p. — Out of print

Superseded by the online bibliography.

Washington Geological Survey

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

■ DIGITAL DATA SERIES ■

Digital Data Series are available online only.

1. Washington State seismogenic features database—GIS data, by J. D. Bowman and J. L. Czajkowski. 2019. [ONLINE] — Web only
2. Washington State aeromagnetic and gravity anomaly data—GIS data, by J. D. Bowman. 2013. [ONLINE] — Web only
3. Volcanic vents database for Washington State—GIS data, by J. L. Czajkowski and J. D. Bowman. 2013. [ONLINE] — Web only
4. Geothermal direct-use database in Washington State—GIS data, by J. D. Bowman. 2014. [ONLINE] — Web only
5. Washington State rock geochemistry database—GIS data, by J. D. Bowman, J. L. Czajkowski, S. P. Reidel, D. E. Boschmann, and L. A. Fusso. 2014. [ONLINE] — Web only
6. Washington State geochronology database—GIS data, by J. L. Czajkowski. 2016. [ONLINE] — Web only
7. Thermal and mineral springs database for Washington State—GIS data, by J. L. Czajkowski, J. D. Bowman, L.A. Fusso, and D. E. Boschmann. 2014. [ONLINE] — Web only
8. Washington State geothermal well database—GIS data, by J. L. Czajkowski, J. D. Bowman, L. A. Fusso, and D. E. Boschmann. 2014. [ONLINE] — Web only
9. Washington State geothermal favorability model database—GIS data, by D. E. Boshmann, J. L. Czajkowski, and J. D. Bowman. 2014. [ONLINE] — Web only
10 Surface geology, 1:24,000—GIS data, by Washington Geological Survey. 2019. [ONLINE] — Web only
11. Subsurface database of Washington State—GIS data, by D. A. Jeschke, D. W. Eungard, K. G. Troost, and A. P. Wisher. 2019. [ONLINE] — Web only
12 Landslides compilation of Washington State—GIS data, by Washington Geological Survey, 2020. [ONLINE] — Web only
13 Metallic minerals database—GIS data, by Washington Division of Geology and Earth Resources. 2015. [ONLINE] — Web only
14 Nonmetallic (industrial) minerals database—GIS data, by Washington Division of Geology and Earth Resources. 2015. [ONLINE] — Web only
15 Hazardous minerals database—GIS data, by Washington Division of Geology and Earth Resources. 2015. [ONLINE] — Web only
16 Coal database—GIS data, by Washington Division of Geology and Earth Resources. 2015. [ONLINE] — Web only
17 Shear wave database—GIS data, by Washington Geological Survey. 2019. [ONLINE] — Web only
18 Surface geology, 1:100,000—GIS data, by Washington Division of Geology and Earth Resources. 2016. [ONLINE] — Web only
19 Landslide inventory protocol mapping—GIS data, by Washington Geological Survey, 2020. [ONLINE] — Web only
20 Coal mine maps—GIS data, by Washington Geological Survey, 2017. [ONLINE] — Web only
21 Oil and Gas Wells—GIS data, by Washington Geological Survey, 2019. [ONLINE] — Web only

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22	Tsunami Hazard—GIS data, by Washington Geological Survey, 2019. [ONLINE]	Web only

■ DIGITAL REPORTS ■

Digital Reports are available online only.

1. Digital bibliography of the geology and mineral resources of Washington State, 1798–2000, by C. J. Manson, editor and compiler. 20010. — Lib. use only

   Superseded by the online bibliography.

2. Digital geologic maps of the 1:100,000 quadrangles of Washington, by Washington Division of Geology and Earth Resources staff. 2001 and 2003. — Lib. use only

   Superseded by the Geologic Information Portal.

3. Digital inventory of flood-plain mines in Washington State, by L. R. Baker, K. W. Wegmann, D. T. McKay Jr., D. K. Norman, and C. N. Johnson. 2003. Includes ArcView files plus 4 p. text as a PDF file. [ONLINE] — Web 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 only

■ FACT SHEETS ■

Fact Sheets are available online only.

Geology in the public interest. 2015. 4 p. [ONLINE] — Web only

The Washington Geology Library. 2015. 2 p. [ONLINE] — Web only

Landslide hazards in Washington state. 2015. 2 p. [ONLINE] — Web only

What are landslides and how do they occur? 2015. 2 p. [ONLINE] — Web only

Washington State Geologic Information Portal. 2014. 2 p. [ONLINE] — Web only

■ FIELD TRIP GUIDES ■

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

Geology of the Yakima Valley wine country—A geologic field trip guide from Stevenson to Zillah, Washington, by D. K. Norman, A. J. Busacca, and Ron Teissere. 2004. Color, 13 p. [ONLINE] — In print

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 only

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 only

Waterfall loop tour on the historic Columbia River Highway [Oregon] [ONLINE] — Web only

■ GEOLOGIC MAPS ■

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

Note: Geologic maps may also be found under other categories, such as Open File Reports, Bulletins, and Information Circulars.

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

■ GEOLOGIC MAPS ■

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

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

GM-15. Slope stability map of Thurston County, Washington, by E. R. Artim. 1976. 31 x 19 in. color sheet, scale 1:125,000. [ONLINE] — In print

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

GM-17. Relative potential for differential settlement, Gig Harbor Peninsula, Pierce County, Washington, by Mackey Smith. 1976. 21 x 35 in. color sheet, scale 1:31,250. [ONLINE] — In print

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

GM-25. Geothermal resources of Washington, compiled by M. A. Korosec, K. L. Kaler, J. E. Schuster, R. G. Bloomquist, S. J. Simpson, and D. D. Blackwell. 1981. 50 x 42 in. color sheet, scale 1:500,000. [ONLINE] — In print

GM-26. Geology of the Pullman, Moscow West, Colton, and Uniontown 7½-minute quadrangles, Washington and Idaho, by P. R. Hooper and G. D. Webster. 1982. 33 x 22 in. two-color sheet, scale 1:62,500. [ONLINE] — Out of print

GM-27. Complete Bouguer gravity anomaly map, Cascade Mountains, Washington, by Z. F. Daneš and W. M. Phillips. 1983. Two 24 x 35 in. two-color sheets, scale 1:250,000. [ONLINE] — In print

GM-28. Geologic map of the Ellensburg [15-minute] quadrangle, Washington, by R. D. Bentley and N. P. Campbell. 1983. 34 x 23 in. two-color sheet, scale 1:62,500. [ONLINE] — Out of print

GM-29. Geologic map of the Yakima quadrangle, Washington, by R. D. Bentley and N. P. Campbell. 1983. 34 x 23 in. two-color sheet, scale 1:62,500. [ONLINE] — Out of print

GM-30. Availability of Federal land for mineral exploration and development in the State of Washington, by D. P. Banister, D. J. Barnes, and W. D. Longwill. 1984. Four 50 x 37 in. color sheets, scale 1:500,000, with 17 p. text. [ONLINE] — In print

GM-31. Geologic map of the Clarkston 15-minute quadrangle, Washington and Idaho, by P. R. Hooper, G. D. Webster, and V. E. Camp. 1985. 27 x 33 in. color sheet, scale 1:48,000, with 11 p. text. [ONLINE] — Out of print

GM-32. Geologic maps of the Marcus and Kettle Falls [7.5-minute] quadrangles, Stevens and Ferry Counties, Washington, by J. W. Mills. 1985. Two 27 x 29 in. color sheets, scale 1:24,000, with 18 p. text. [ONLINE] — In print

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GM-33. Geologic map of the Humptulips [15-minute] quadrangle and adjacent areas, Grays Harbor County, Washington, by W. W. Rau. 1986. 31 x 41 in. color sheet, scale 1:62,500. [ONLINE] — In print

GM-34. Geologic map of Washington—Southwest quadrant, by T. J. Walsh, M. A. Korosec, W. M. Phillips, R. L. Logan, and H. W. Schasse. 1987. 54 x 39 in. color sheet, scale 1:250,000, and accompanying explanatory sheet (63 x 40 in.), with 28 p. text. [ONLINE] — In print

GM-35. Geologic map of the Bluelight 15-minute quadrangle, Washington, by R. D. Bentley, N. P. Campbell, and J. E. Powell. 1988. 25 x 37 in. two-color sheet, scale 1:48,000. [ONLINE] — In print

GM-36. Geologic map of the Poisel Butte 15-minute quadrangle, Washington, by R. D. Bentley, N. P. Campbell, and J. E. Powell. 1988. 25 x 37 in. two-color sheet, scale 1:48,000. [ONLINE] — In print

GM-37. Geologic map of the Logy Creek 15-minute quadrangle, Washington, by R. D. Bentley, N. P. Campbell, and J. E. Powell. 1988. 26 x 37 in. two-color sheet, scale 1:48,000. [ONLINE] — In print

GM-38. Geologic map of the Saddle Mountains, Washington, by S. P. Reidel. 1988. 28 p., 5 pl. (3 two-color)(pl. 1 & 2, 25 x 16 in.; pl. 3, 18 x 27 in.; pl. 4, 27 x 19 in.; pl. 5, 25 x 21 in.), scale 1:48,000. [ONLINE] — In print

GM-39. Geologic map of Washington—Northeast quadrant, by K. L. Stoffel, N. L. Joseph, S. Z. Waggoner, C. W. Gulick, M. A. Korosec, and B. B. Bunning. 1991. 62 x 39 in. color sheet, scale 1:250,000, and two accompanying explanatory sheets (57 x 39 in. and 46 x 39 in.), including a bedrock geologic and tectonic map at 1:625,000 scale, with 36 p. text. [ONLINE] — In print

GM-40. Geologic map of southeast Asotin County, Washington, by S. P. Reidel, P. R. Hooper, G. D. Webster, and V. E. Camp. 1992. 27 x 38 in. two-color sheet, scale 1:48,000, with 22 p. text. [ONLINE] — In print

GM-41. Liquefaction susceptibility for the Des Moines and Renton 7.5-minute quadrangles, Washington, by S. P. Palmer, H. W. Schasse, and D. K. Norman. 1994. Two 28 x 27 in. color sheets, scale 1:24,000, with 15 p. text. [ONLINE] — In print

GM-42. Relative earthquake hazard map for the Vancouver, Washington, urban region, by M. A. Mabey, I. P. Madin, and S. P. Palmer. 1994. Two color sheets (28 x 30 in. and 28 x 32 in.), scale 1:24,000, with 5 p. text. [ONLINE] — In print

GM-43. Liquefaction susceptibility for the Auburn and Poverty Bay 7.5-minute quadrangles, Washington, by S. P. Palmer, T. J. Walsh, R. L. Logan, and W. G. Gerstel. 1995. Two 24 x 26 in. color sheets, scale 1:24,000, with 15 p. text. [ONLINE] — In print

GM-44. Liquefaction susceptibility for the Sumner 7.5-minute quadrangles, Washington, by J. D. Dragovich and P. T. Pringle, with a section on liquefaction by S. P. Palmer. 1995. 24 x 26 in. color sheet, scale 1:24,000, with 26 p. text. [ONLINE] — In print

GM-45. Geologic map of Washington—Southeast quadrant, by J. E. Schuster, C. W. Gulick, S. P. Reidel, K. R. Fecht, and Stephanie Zurenko. 1997. 62 x 39 in. color sheet, scale 1:250,000, and accompanying explanatory sheet (38 x 31 in.) with bedrock geology and tectonic map at 1:625,000, with 20 p. text. [ONLINE] — In print

GM-46. Geologic map and bedrock history of the Gilbert 7.5-minute quadrangle, Chelan and Okanogan Counties, Washington, by J. D. Dragovich, D. K. Norman, R. A. Haugerud, and R. B. Miller. 1997. 40 x 28 in. two-color sheet, scale 1:24,000, with 67 p. text. [ONLINE] — In print

GM-47. Geologic folio of the Olympia–Lacey–Tumwater urban area, Washington—Liquefaction susceptibility map, by S. P. Palmer, T. J. Walsh, and W. G. Gerstel. 1999. 31 x 27 in. color sheet, scale 1:48,000, with 16 p. text. [ONLINE] — Out of print

GM-48. Liquefaction susceptibility of the greater Eastside area, King County, Washington, by S. P. Palmer, B. D. Evans, and H. W. Schasse. 2002. 29 x 36 in. color sheet, scale 1:36,000, with 14 p. text. [ONLINE] — In print

GM-49. Tsunami hazard map of the southern Washington coast—Modeled tsunami inundation from a Cascadia subduction zone earthquake, by T. J. Walsh, C. G. Caruthers, A. C. Heinitz, E. P. Myers III, A. M. Baptista, G. B. Erdakos, and R. A. Kamphaus. 2000. 26 x 52 color sheet, scale 1:100,000, with 12 p. text. [ONLINE] — In print

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] — In print

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] — In print

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] — In print

GM-53. Geologic map of Washington State, by J. E. Schuster. 2005. 55.5 x 36 in. color sheet, scale 1:500,000, with 44 p. text. [ONLINE] — In print

GM-54. Geologic map of the Deer Park 7.5-minute quadrangle, Spokane County, Washington, by R. E. Derkey, M. M. Hamilton, and D. F. Stradling. 2005. 36 x 42 in. color sheet, scale 1:24,000. [ONLINE] — In print

GM-55. Geologic map of the Chattaroy 7.5-minute quadrangle, Spokane County, Washington, by R. E. Derkey, M. M. Hamilton, and D. F. Stradling. 2005. 36 x 42 in. color sheet, scale 1:24,000. [ONLINE] — In print

GM-56. Geologic map of the East Olympia 7.5-minute quadrangle, Thurston County, Washington, by T. J. Walsh and R. L. Logan. 2005. 42 x 36 in. color sheet, scale 1:24,000. [ONLINE] — In print

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GM-57. Geologic map of the Port Townsend South and part of the Port Townsend North 7.5-minute quadrangles, Jefferson County, Washington, by H. W. Schasse and S. L. Slaughter. 2005. 42 x 36 in. color sheet, scale 1:24,000. [ONLINE] — In print

GM-58. Geologic map of the Coupeville and part of the Port Townsend North 7.5-minute quadrangles, Island County, Washington, by Michael Polenz, S. L. Slaughter, and G. W. Thorsen. 2005. 50 x 36 in. color sheet, scale 1:24,000. [ONLINE] — In print

GM-59. Geologic map of the Oak Harbor, Crescent Harbor, and part of the Smith Island 7.5-minute quadrangles, Island County, Washington, by J. D. Dragovich, G. T. Petro, G. W. Thorsen, S. L. Larson, G. R. Foster, and D. K. Norman. 2005. Two 42 x 36 in. color sheets, scale 1:24,000. [ONLINE] — In print

GM-60. Geologic map of the Timberwolf Mountain 7.5-minute quadrangle, Yakima County, Washington, by P. E. Hammond. 2005. 48 x 36 in. color sheet, scale 1:24,000. Additional information available as Open File Report 2005-5. [ONLINE] — In print

GM-61. Geologic map of the McMurray 7.5-minute quadrangle, Skagit and Snohomish Counties, Washington, with a discussion of the evidence for Holocene activity on the Darrington–Devils Mountain fault zone, by J. D. Dragovich and A. J. DeOme. 2006. 33 x 36 in. color sheet, scale 1:24,000, with 18 p. text. [ONLINE] — In print

GM-62. Geologic map of the College Place and Walla Walla 7.5-minute quadrangles, Walla Walla County, Washington, and Umatilla County, Oregon, by R. E. Derkey, D. F. Stradling, K. A. Lindsey, and T. L. Tolan. 2006. 46 x 36 in. color sheet, scale 1:24,000. [ONLINE] — In print

GM-63. Geologic map of the Fox Island 7.5-minute quadrangle, Pierce County, Washington, by R. L. Logan, T. J. Walsh, and K. G. Troost. 2006. 33 x 36 in. color sheet, scale 1:24,000. [ONLINE] — In print

GM-64. Geologic map of the Freeland and northern part of the Hansville 7.5-minute quadrangles, Island County, Washington, by Michael Polenz, H. W. Schasse, and B. B. Petersen. 2006. 46 x 36 in. color sheet, scale 1:24,000. [ONLINE] — In print

GM-65. Geologic map of the Vaughn 7.5-minute quadrangle, Pierce and Mason Counties, Washington, by R. L. Logan and T. J. Walsh. 2007. 42 x 36 in. color sheet, scale 1:24,000. [ONLINE]. — In print

GM-66. Geologic map of the Four Mound Prairie 7.5-minute quadrangle, Spokane and Stevens Counties, Washington, by R. E. Derkey and M. M. Hamilton. 2007. 42 x 36 in. color sheet, scale 1:24,000. [ONLINE] — In print

GM-67. Geologic map of the Fall City 7.5-minute quadrangle, King County, Washington, by J. D. Dragovich, M. L. Anderson, T. J. Walsh, B. L. Johnson, and T. L. Adams. 2007. 42 x 36 in. color sheet, scale 1:24,000, with 16 p. text. [ONLINE] — In print

GM-68 Geologic map of the Camano 7.5-minute quadrangle, Island County, Washington, by Michael Polenz, H. W. Schasse, M. L. Kalk, and B. B. Petersen. 2009. 48 x 36 in. color sheet, scale 1:24,000. [ONLINE] — In print

GM-69 Geologic map of the Langley and western part of the Tulalip 7.5-minute quadrangles, Island County, Washington, by H. W. Schasse, M. L. Kalk, B. B. Petersen, and Michael Polenz, 2009. 47 x 36 in. color sheet, scale 1:24,000. [ONLINE] — In print

GM-70 Geologic map of the Juniper Beach 7.5-minute quadrangle, Island County, Washington, by H. W. Schasse, M. L. Kalk, and Michael Polenz. 2009. 39 x 36 in. color sheet, scale 1:24,000. [ONLINE] — In print

GM-71 Geologic map of the Olsen Canyon 7.5-minute quadrangle, Lincoln and Stevens Counties, Washington, by R. E. Derkey and M. M. Hamilton. 2009. 42 x 36 in. color sheet, scale 1:24,000. [ONLINE] — In print

GM-72 Geologic map of the Maytown 7.5-minute quadrangle, Thurston County, Washington, by R. L. Logan, T. J. Walsh, B. W. Stanton, and I. Y. Sarikhan. 2009. 42 x 36 in. color sheet, scale 1:24,000. [ONLINE] — In print

GM-73 Geologic map of the North Bend 7.5-minute quadrangle, King County, Washington, with a discussion of major faults, folds, and basins in the map area, by J. D. Dragovich, T. J. Walsh, M. L. Anderson, Renate Hartog, S. A. DuFrane, Jeff Vervoot, S. A. Williams, Recep Cakir, K. D. Stanton, F. E. Wolff, and D. K. Norman. 2009. 38 x 36 in. color sheet, scale 1:24,000, with 39 p. text. [ONLINE] — In print

GM-74 Geologic map of the Meeks Table and western two-thirds of the Nile 7.5-minute quadrangles, Yakima County, Washington, by P. E. Hammond. 2009. 36 x 38 in. color sheet, scale 1:24,000, with 12 p. text. [ONLINE] — In print

GM-75 Geologic map of the Snoqualmie 7.5-minute quadrangle, King County, Washington, by J. D. Dragovich, H. A. Littke, M. L. Anderson, Renate Hartog, G. R. Wessel, S. A. DuFrane, T. J. Walsh, J. H. MacDonald Jr., J. F. Mangano, and Recep Cakir. 2009. Two 42 x 36 in. color sheets, scale 1:24,000. [ONLINE] — In print

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. 36 x 48 in. color sheet, scale 1:24,000, with 11 p. text. [ONLINE] — In print

Note: STATEMAP 7.5-minute quadrangles from 2012 through the present have been published under the new Map Series.

■ INFORMATION CIRCULARS ■

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Division of Geology

1.	Present status of topographic mapping in Washington, by S. L. Glover. 1935. 10 p. [ONLINE]	Out of print
2.	Summary report on Washington minerals, production and resources, by S. L. Glover. 1935. 10 p. [ONLINE]	Out of print
3.	State publications in geology, issued by the First State Geologist, 1890-1892, the Washington Geological Survey, 1901-1902, the Division of Geology, 1921– —, compiled by S. L. Glover. 1937. 5 p. [ONLINE]	Out of print

Division of Mines and Mining

1.	Directory of Washington mines 1938, compiled by the Division of Mines and Mining. 1938. 15 p. [ONLINE]	Out of print
1.	Summary of state and federal mining laws relating to federal lands and mining laws relating to state lands, compiled by the Washington State Library. 1935. 8 p. [Reprinted 1938.] [ONLINE]	Out of print
2.	Directory of Washington mines, 1939, compiled by the Division of Mines and Mining. 1939. 21 p. [ONLINE]	Out of print
3.	January, 1940, supplement to directory of Washington mines, 1939, compiled by the Division of Mines and Mining. 1940. 3 p. [ONLINE]	Out of print
4.	Preliminary report on strategic metals in Washington, by the Division of Mines and Mining. 1940. 7 p. [ONLINE]	Out of print
5.	Directory of Washington metallic mining properties, by the Division of Mines and Mining. 1940. 72 p. [ONLINE]	Out of print
6.	Summary of information on iron ore deposits of Washington, by the Division of Mines and Mining. 1940. 11 p. [ONLINE]	Out of print
7.	Directory of Washington metallic mining properties, by Division of Mines and Mining. 1941. 74 p. [ONLINE]	Out of print
8.	Directory of Washington mining operations, by Ward Carithers. 1943. 36 p. [ONLINE]	Out of print
9.	1944 directory of Washington mining operations, by S. H. Green. 1944. 36 p. [ONLINE]	Out of print
10.	Geologic factors of quarrying, by S. L. Glover and W. A. G. Bennett. 1944. 18 p., 5 figs. [ONLINE]	Out of print

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11.	1945 directory of Washington mining operations, by S. H. Green and Ward Carithers. 1945. 48 p. [ONLINE]	Out of print
12.	1946 directory of Washington mining operations, by S. H. Green. 1946. 57 p. [ONLINE]	Out of print
13.	1947 directory of Washington mining operations, by S. H. Green. 1947. 59 p. [ONLINE]	Out of print
14.	Excerpts from "Washington fuel requirements and supplies", Battelle Memorial Institute survey report to Washington State Department of Conservation and Development, compiled by R. J. Lund and J. D. Sullivan. 1947. 19 p. [ONLINE]	Out of print
15.	Oil and gas exploration in Washington, by S. L. Glover. 1947. 49 p., 3 figs. [ONLINE]	Out of print
15.	Wells drilled for oil or gas in Washington from 1945 to July 1953 inclusive; Supplement to Information Circular 15, by S. L. Glover. 1953. 9 p. (table). [ONLINE]	Out of print
16.	1948 directory of Washington mining operations, by S. H. Green. 1948. 51 p. [ONLINE]	Out of print
17.	1949 directory of Washington mining operations, by M. T. Huntting. 1949. 62 p. [ONLINE]	Out of print
18.	1950 directory of Washington mining operations, by M. T. Huntting. 1950. 67 p. [ONLINE]	Out of print
19.	1951 directory of Washington mining operations, by R. H. Stebbins. 1951. 75 p., 2 figs. [ONLINE]	Out of print
20.	1952 directory of Washington mining operations, by C. P. Purdy Jr. 1952. 75 p., 2 figs. [ONLINE]	Out of print
21.	1953 directory of Washington mining operations, by C. P. Purdy Jr. 1953. 81 p., 2 figs. [ONLINE]	Out of print
22.	Introduction to Washington geology and resources, by C. D. Campbell. 1953. 42 p., 5 figs. [ONLINE]	Out of print
22R.	Introduction to Washington geology and resources, revised by C. D. Campbell. 44 p., 5 figs. [Revised 1962.] [ONLINE]	In print
23.	1954 directory of Washington mining operations, by C. P. Purdy Jr. 1954. 73 p., 2 figs. [ONLINE]	Out of print
24.	1955 directory of Washington mining operations, by M. T. Huntting. 1955. 80 p., 2 figs. [ONLINE]	Out of print
25.	1956 directory of Washington mining operations, by H. D. Banta. 1956. 88 p., 2 fig. [ONLINE]	Out of print
26.	Uranium in Washington (an extract from Bulletin 37, Part II), by M. T. Huntting. 1957. 10 p., 1 pl. [ONLINE]	Out of print
27.	1957 directory of Washington mining operations, by V. E. Livingston Jr. 1957. 96 p., 2 figs. [ONLINE]	Out of print
28.	1958 directory of Washington mining operations, by W. S. Moen, V. E. Livingston Jr., and G. W. Thorsen. 1958. 76 p., 2 figs. [ONLINE]	Out of print
29.	Oil and gas exploration in Washington, 1900–1957, by V. E. Livingston Jr. 1958. 61 p., 1 pl. [ONLINE]	Out of print
30.	Archeology in Washington, by Bruce Stallard. 1958. 64 p., 1 pl., 34 figs. [ONLINE]	Out of print
31.	Prospecting in Washington, by D. L. Anderson. 1959. 26 p., 9 figs. [ONLINE]	Out of print
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33.	Fossils in Washington, by V. E. Livingston Jr. 1959. 34 p., 1 pl., 17 figs. [Reprinted 1983.] [ONLINE]	Out of print
34.	1959 directory of Washington mining operations, by G. W. Thorsen. 1960. 78 p., 2 figs. [ONLINE]	Out of print
35.	1960 directory of Washington mining operations, by G. W. Thorsen. 1961. 84 p., 2 figs. [ONLINE]	Out of print
36.	Mineral rights and land ownership in Washington, by W. S. Moen. 1962. 23 p., 1 pl., 2 figs. [ONLINE]	Out of print
37.	1962 directory of Washington mining operations, by G. W. Thorsen. 1963. 81 p., 2 figs. [ONLINE]	Out of print

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38. A geologic trip along Snoqualmie, Swauk, and Stevens Pass highways, by University of Washington Geology Department staff, revised by V. E. Livingston Jr. 1963. 51 p. [ONLINE] — Out of print

39. Marketing of metallic and nonmetallic minerals, by D. L. Anderson. 1963. 39 p., 2 figs. [ONLINE] — In print

40. Caves of Washington, by W. R. Halliday. 1963. 132 p., 9 pl., 92 figs. [ONLINE] — Out of print

41. Origin of Cascade landscapes, by J. H. Mackin and A. S. Cary. 1965. 35 p., 11 figs. [ONLINE] — In print

42. 1964 directory of Washington mining operations, by W. S. Moen and G. W. Thorsen. 1965. 86 p., 3 figs. [ONLINE] — Out of print

43. 1965–1966 directory of Washington mining operations, by W. S. Moen. 1967. 80 p., 3 figs. [ONLINE] — Out of print

44. 1967–68 directory of Washington mining operations, by W. S. Moen. 1969. 78 p., 3 figs. [ONLINE] — Out of print

45. Geologic history and rocks and minerals of Washington, by V. E. Livingston Jr. 1969. 42 p., 49 figs. [ONLINE] — Out of print

46. 1969–70 directory of Washington mining operations, by W. S. Moen. 1971. 88 p., 3 figs. [ONLINE] — Out of print

47. Geology in land use planning—Some guidelines for the Puget Lowland, by E. R. Artim. 1973. 18 p., 2 pl., 6 figs. [ONLINE] — Out of print

48. 1971–72 directory of Washington mining operations, by J. E. Schuster. 1973. 97 p., 3 figs. [ONLINE] — Out of print

49. Conconully mining district of Okanogan County, Washington, by W. S. Moen. 1973. 42 p., 16 figs. [ONLINE] — Out of print

Division of Geology and Earth Resources

50. Energy resources of Washington, by Washington Division of Geology and Earth Resources staff; and others. 1974. 158 p. [ONLINE] — Out of print

51. Piercement structure outcrops along the Washington coast, by W. W. Rau and G. R. Grocock. 1974. 7 p., 7 figs. [ONLINE] — In print

52. Landslides in Seattle, by D. W. Tubbs. 1974. 15 p., 1 pl., 13 figs. [Reprinted 1983.] [ONLINE] — Out of print

53. Compilation of earthquake hypocenters in western Washington [July 1970–Dec. 1972], by R. S. Crosson. 1974. 26 p., 6 figs. [ONLINE] — In print

54. A geologic road log over Chinook, White Pass, and Ellensburg to Yakima highways, by N. P. Campbell. 1975. 82 p., figs. [ONLINE] — In print

55. Compilation of earthquake hypocenters in western Washington—1973, by R. S. Crosson. 1975. 14 p., 1 fig. [ONLINE] — In print

56. Compilation of earthquake hypocenters in western Washington—1974, by R. S. Crosson and R. C. Millard. 1975. 14 p., 2 figs. [ONLINE] — Out of print

57. Handbook for gold prospectors in Washington, by W. S. Moen and M. T. Huntting. 1975. 90 p., 13 figs. [Reprinted 1983.] [ONLINE] — Out of print

58. Engineering geologic studies, by Washington Division of Geology and Earth Resources staff; and others. 1976. 40 p. [ONLINE] — Out of print

59. Washington gravity base station network, by T. H. Nilsen. 1976. 83 p., 1 fig., 4 tables. [ONLINE] — In print

60. St. Helens and Washougal mining districts of the southern Cascades of Washington, by W. S. Moen. 1977. 71 p., 26 figs. [ONLINE] — Out of print

61. Annotated guide to sources of information on the geology, minerals, and ground-water resources of the Puget Sound region, Washington, King County section, by W. H. Reichert, with supplemental references by D. D. Dethier. 1978. 63 p., 8 figs. [ONLINE] — In print

62. Heat flow studies in the Steamboat Mountain–Lemei Rock area, Skamania County, Washington, by J. E. Schuster, D. D. Blackwell, P. E. Hammond, and M. T. Huntting. 1978. 56 p., 14 figs. [ONLINE] — In print

63. 1977 directory of Washington mining operations, by P. C. Milne and C. W. Walker. 1978. 117 p. [ONLINE] — Out of print

64. Compilation of earthquake hypocenters in western Washington—1975, by R. S. Crosson and L. L. Noson. 1978. 12 p., 2 figs. [ONLINE] — In print

65. Compilation of earthquake hypocenters in western Washington—1976, by R. S. Crosson and L. L. Noson. 1978. 13 p., 2 figs. [ONLINE] — In print

66. Compilation of earthquake hypocenters in western Washington—1977, by R. S. Crosson and L. L. Noson. 1978. 12 p., 3 figs. [ONLINE] — In print

67. Oil and gas exploration in Washington, 1900–1978, by C. R. McFarland. 1979. 119 p., 43 oil and gas test well maps. [ONLINE] — Out of print

Superseded by Information Circular 75.

67R. Oil and gas exploration in Washington, 1900–1981, by C. R. McFarland. 1981. 119 p., 43 oil and gas test well maps. [ONLINE] — Out of print

Superseded by Information Circular 75.

68. Index to published geologic mapping in Washington, 1854–1970, by W. H. Reichert. 1979. 233 p., 104 page-size maps. — Out of print

69. Directory of Washington mining operations—1979, by C. R. McFarland, G. B. McLucas, J. G. Rigby, and K. L. Stoffel. 1980. 100 p., 3 figs. [ONLINE] — Out of print

70. Theses on Washington geology—A comprehensive bibliography, 1901–1979, compiled by C. J. Manson. 1980. 212 p., 2 pl. — Out of print

Superseded by the online bibliography.

71. The 1980 eruption of Mount St. Helens, Washington, Part I: March 20–May 19, 1980, by M. A. Korosec, J. G. Rigby, and K. L. Stoffel. 1980. 27 p., 4 figs. [ONLINE] — Out of print

72. Compilation of earthquake hypocenters in western Washington—1978, by L. L. Noson and R. S. Crosson. 1980. 18 p., 5 figs. [ONLINE] — In print

73. Index to geologic and geophysical mapping of Washington, compiled by C. J. Manson. 1981. 63 p., 10 pl. — Out of print

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74. The mineral industry of Washington—Highlights of its development, 1853–1980, by W. S. Moen. 1982. 26 p., 35 figs. [Reprinted 1983.] [ONLINE] — In print

75. Oil and gas exploration in Washington, 1900–1982, by C. R. McFarland. 1983. 119 p. [ONLINE; also, addendum covering 1982 to present ONLINE] — In print

76. Mount St. Helens—Annotated index to video archives, by R. L. Logan and C. J. Manson. 1983. 51 p. [Note: the videos were ¾-inch broadcast tapes. The collection was sent to the Smithsonian for preservation.] [ONLINE] — In print

77. Index to geologic and geophysical mapping of Washington, 1899–1983, compiled by C. J. Manson. 1984. 56 p., 12 pl. — Out of print

78. A guide for the preliminary evaluation of rock for road surfacing, by V. E. Livingston Jr. 1984. 8 p., 7 photos, 3 tables. [ONLINE] — In print

79. Compilation of earthquake hypocenters in western Washington—1979, by L. L. Noson, R. S. Ludwin, and R. S. Crosson. 1985. 19 p., 4 figs. [ONLINE] — In print

80. Theses on Washington geology, 1901–1985, compiled by C. J. Manson. 1986. 400 p., 5 pl. — In print

Superseded by the online bibliography.

81. The Puget Lowland earthquakes of 1949 and 1965—Reproductions of selected articles describing damage, compiled by G. W. Thorsen. 1986. 113 p. [ONLINE] — In print

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 print

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 print

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 print

85. Washington State earthquake hazards, by L. L. Noson, Anthony Qamar, and G. W. Thorsen. 1988. 77 p., 47 figs. [ONLINE] — In print

86. Geologic guidebook for Washington and adjacent areas, edited by N. L. Joseph and others. 1989. 369 p. [loose-leaf only] [ONLINE] — Out of print

87. Directory of Washington mining operations, 1992, by W. S. Lingley Jr. and C. J. Manson. 1992. 76 p., 6 figs. [ONLINE] — Out of print

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 print

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 print

90. Flood basalts and glacier floods—Roadside geology of parts of Walla Walla, Franklin, and Columbia Counties, Washington, by R. J. Carson and K. R. Pogue. 1996. 47 p., 68 figs. [ONLINE] — Out of print

91. Reconnaissance investigation of sand, gravel, and quarried bedrock resources in the Bellingham 1:100,000 quadrangle, Washington, by J. S. Loen, W. S. Lingley Jr., Garth Anderson, and T. J. Lapen. 2001. 45 p., 4 figs., 4 tables, 1 pl., scale 1:100,000. [ONLINE] — In print

92. Reconnaissance investigation of sand, gravel, and quarried bedrock resources in the Yakima 1:100,000 quadrangle, Washington, by K. D. Weberling, A. B. Dunn, and J. E. Powell. 2001. 34 p., 2 figs., 5 tables, 1 pl., scale 1:100,000. [ONLINE] — In print

93. Reconnaissance investigation of sand, gravel, and quarried bedrock resources in the Toppenish 1:100,000 quadrangle, Washington, by A. B. Dunn. 2001. 23 p., 3 figs., 5 tables, 1 pl., scale 1:100,000. [ONLINE] — In print

94. Directory of Washington mines, 2001, compiled by D. T. McKay Jr., D. K. Norman, M. A. Shawver, and R. F. Teissere. 2001. 104 p. [ONLINE] — In print

Superseded by Open File Report 2010-7.

95. Reconnaissance investigation of sand, gravel, and quarried bedrock resources in the Mount St. Helens 1:100,000 quadrangle, Washington, by D. K. Norman, A. B. Dunn, and C. M. Kenner. 2001. 52 p., 2 figs., 4 tables, 1 pl., scale 1:100,000. [ONLINE] — In print

96. Reconnaissance investigation of sand, gravel, and quarried bedrock resources in the Snoqualmie Pass 1:100,000 quadrangle, Washington, by W. S. Lingley Jr., D. A. Knoblach, and C. K. B. Nightingale. 2002. 63 p., 4 figs., 4 tables, 1 pl., scale 1:100,000. [ONLINE] — In print

97. Reconnaissance investigation of sand, gravel, and quarried bedrock resources in the Shelton 1:100,000 quadrangle, Washington, by A. B. Dunn, Gordon Adams, W. S. Lingley Jr., J. S. Loen, and A. L. Pittelkau. 2002. 54 p., 1 fig., 5 tables, 1 pl., scale 1:100,000. [ONLINE] — In print

98. Inactive and abandoned mine lands—Lone Jack Mine, Mount Baker mining district, Whatcom County, Washington, by F. E. Wolff, D. T. McKay Jr., M. I. Brookshier, and D. K. Norman. 2005. 11 p. [ONLINE] — Web only

99. Inactive and abandoned mine lands—Boundary Red Mountain Mine, Mount Baker mining district, Whatcom County, Washington, by F. E. Wolff, M. I. Brookshier, and D. K. Norman. 2005. 9 p. [Revised 2008.] [ONLINE] — Web only

100. Inactive and abandoned mine lands—Van Stone Mine, Northport Mining District, Stevens County, Washington, by F. E. Wolff, D. T. McKay Jr., and D. K. Norman. 2005. 18 p. [ONLINE] — Web only

101. Inactive and abandoned mine lands—Cleveland Mine, Springdale Mining District, Stevens County, Washington, by F. E. Wolff, D. T. McKay Jr., and D. K. Norman. 2006. 19 p. [ONLINE] — Web only

102. Inactive and abandoned mine lands—Deer Trail Mine, Cedar Canyon Mining District, Stevens County, Washington, by F. E. Wolff, D. T. McKay Jr., and D. K. Norman. 2006. 14 p. [ONLINE] — Web only

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103.	Inactive and abandoned mine lands—First Thought Mine, Orient Mining District, Stevens County, Washington, by F. E. Wolff, D. T. McKay Jr., and D. K. Norman. 2006. 13 p. [ONLINE]	Web only
104.	Inactive and abandoned mine lands—Queen Seal Mine, Cedar Canyon Mining District, Stevens County, Washington, by F. E. Wolff, D. T. McKay Jr., and D. K. Norman. 2007. 10 p. [ONLINE]	Web only
105.	Inactive and abandoned mine lands—Young America Mine, Bossburg Mining District, Stevens County, Washington, by F. E. Wolff, D. T. McKay Jr., M. I. Brookshier, and D. K. Norman. 2007. 12 p. [Revised 2008.] [ONLINE]	Web only
106.	Inactive and abandoned mine lands—Bodie Mine, Wauconda Mining District, Okanogan County, Washington, by F. E. Wolff, M. I. Brookshier, D. T. McKay Jr., and D. K. Norman. 2007. 16 p. [ONLINE]	Web only
107.	Roadside geology of Mount Rainier National Park and vicinity, by P. T. Pringle. 2008. 200 p. [ONLINE]	In print
108.	Inactive and abandoned mine lands—Deep Creek mine, Northport Mining District, Stevens County, Washington, by F. E. Wolff, M. I. Brookshier, and D. K. Norman. 2008. 12 p. [ONLINE]	Web only
109.	Inactive and abandoned mine lands—Bonanza mine, Bossburg Mining District, Stevens County, Washington, by F. E. Wolff, M. I. Brookshier, and D. K. Norman. 2008. 14 p. [ONLINE]	Web only
110.	Inactive and abandoned mine lands—Republic Mining District, Ferry County, Washington, by F. E. Wolff, D. T. McKay, and D. K. Norman. 2010. 41 p. [ONLINE]	Web only
111.	Inactive and abandoned mine lands—Ruby mine, Nighthawk Mining District, Okanogan County, Washington, by F. E. Wolff, D. T. McKay, and D. K. Norman. 2010. 11 p. [ONLINE]	Web only
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]	Web only
113.	Loss estimation pilot project for lahar hazards from Mount Rainier, Washington, by Recep Cakir and T. J. Walsh. 2012. 17 p. [ONLINE]	Web only
114.	Resilient Washington State—A framework for minimizing loss and improving statewide recovery after an earthquake; Final report and recommendations, by Resilient Washington State Subcommittee. 2012. 33 p. [ONLINE]	Web only
115.	Inactive and abandoned mine lands—Old Dominion Mine, Colville Mining District, Stevens County, Washington, by F. E. Wolff, B. T. Garcia, D. T. McKay Jr., N. J. Hehemann, and D. K. Norman. 2013. 44 p. [ONLINE]	Web only
116.	Cascadia subduction zone earthquakes—A magnitude 9.0 earthquake scenario, by the Cascadia Region Earthquake Workgroup (CREW). 2013 update. 23 p. [ONLINE]	Web only
117.	Inactive and abandoned mine lands—Germania Mine, Cedar Canyon Mining District, Stevens County, Washington, by F. E. Wolff, B. T. Garcia, D. T. McKay, and D. K. Norman. 2014. 21 p. [ONLINE]	Web only
118.	Geomorphic mapping of the Chehalis River floodplain, Cosmopolis to Pe Ell, Grays Harbor, Thurston, and Lewis Counties, Washington by S. L. Slaughter and I. J. Hubert. 2014. 61 p. [ONLINE]	Web only
119.	Rock aggregate resource inventory map of Pierce County, Washington by D. W. Eungard and J. L. Czajkowski. 2015. 23 p., 1 pl., scale 1:100,000. [ONLINE]	Web only
120.	Rock aggregate resource inventory map of Lewis County, Washington by D. W. Eungard. 2015. 25 p., 1 pl., scale 1:100,000. [ONLINE]	Web only

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2012-01	Geologic map of the Lake Joy 7.5-minute quadrangle, King County, Washington, by J. D. Dragovich, M. L. Anderson, S. A. Mahan, J. H. MacDonald, Jr., C. P. McCabe, Recep Cakir, B. A. Stoker, N. M. Villeneuve, D. T. Smith, and J. P. Bethel. 2012. Two color plates, 45 x 36 in. and 36 x 48.5 in., scale 1:24,000, with 79 p. text and 1 Microsoft Excel file. [ONLINE]	In print
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2005-2. Geologic map of the Ebey's Landing National Historical Reserve, Island County, Washington, by Michael Polenz, S. L. Slaughter, J. D. Dragovich, and G. W. Thorsen. 2005. 50 x 36 in. color sheet, scale 1:24,000. [ONLINE] — Web only

2005-3. Digital 1:100,000-scale geology of Washington State, version 1.0, by Washington Division of Geology and Earth Resources staff. 2005. Contains 11 ESRI shapefiles of geologic data, 3 shapefiles of nongeologic auxiliary data, and 7 documentation files in Microsoft Word, Microsoft Excel, and Adobe PDF formats. — Lib. use only

Superseded by online GIS data.

■ OPEN FILE REPORTS ■

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

2005-4. Development of design guidelines for structures that serve as tsunami vertical evacuation sites, by Harry Yeh, Ian Robertson, and Jane Preuss. 2005. 34 p. [ONLINE] — Web only

2005-5. Supplement to Geologic Map GM-60, Geologic map of the Timberwolf Mountain 7.5-minute quadrangle, Yakima County, Washington, by P. E. Hammond. 2005. Contains description and location of sample sites by map unit, analyses of samples, $^{40}Ar/^{39}Ar$ age dates, and $^{40}Ar/^{39}Ar$ age plateau and inverse isochron diagrams in Microsoft Excel and Adobe PDF formats. [ONLINE] — Web only

2006-1. Directory of Washington State surface mining reclamation sites—2006, compiled by T. C. Duerr, M. A. Shawver, and M. I. Brookshier. 2006. 271 p. [ONLINE] — Web only

Superseded by Open File Report 2010-7.

2007-1. Field data for a trench on the Canyon River fault, southeast Olympic Mountains, Washington, by T. J. Walsh and R. L. Logan. 2007. 60 x 36 in. color sheet. [ONLINE] — Web only

2007-2. The Darrington–Devils Mountain fault—A probably active reverse-oblique-slip fault zone in Skagit and Island Counties, Washington, by J. D. Dragovich and B. W. Stanton. 2007. 2 color sheets: 101 x 36 in. (scale 1:31,104) and 26 x 36 in. [ONLINE] — Web only

2007-3. Sand point count and geochemical data in the Fall City and Carnation 7.5-minute quadrangles, King County, Washington, by J. D. Dragovich. 2007. 2 Microsoft Excel files with 6 p. text. [ONLINE] — Web only

2007-4. Seismic design category maps for residential construction in Washington, by Recep Cakir and T. J. Walsh. 2007. 2 color sheets, 58 x 36 in., scale 1:500,000. [ONLINE] — Web only

2008-1. Cascadia deep earthquakes, by Cascadia Region Earthquake Workgroup. 2008. 26 p. [ONLINE] — Web only

2008-2. Shear-wave database for Quaternary and bedrock geologic units, Washington State, by E. L. Bilderback, S. P. Palmer, D. S. Folger, J. L. Poelstra, S. L. Magsino, and R. A. Niggemann. 2008. Contains a database in Microsoft Access and ASCII formats, and a 528 p. text. [ONLINE] — Web only

2008-3. Tuff of Stampede Pass and tuff of Green Canyon in the central Cascade Range, King and Kittitas Counties, Washington, by P. E. Hammond and J. D. Dragovich. 2008. 2 Microsoft Excel files with 8 p. text. [ONLINE] — Web only

2008-4. Geochemical sample analyses of Tertiary and pre-Tertiary volcanic rocks in and around the North Bend 7.5-minute quadrangle, King County, Washington, by J. D. Dragovich and T. J. Walsh. 2008. 1 Microsoft Excel file with 6 p. text. [ONLINE] — Web only

2008-5 Landslide reconnaissance following the storm event of December 1–3, 2007, in western Washington, by I. Y. Sarikhan, K. D. Stanton, T. A. Contreras, Michael Polenz, Jack Powell, T. J. Walsh, and R. L. Logan. 2008. 16 p. [ONLINE] — Web only

2009-1 Landslide field trip to Morton, Glenoma, and Randle, Lewis County, Washington, by I. Y. Sarikhan and T. A. Contreras. 2009. 13 p. [ONLINE] — Web only

2009-2 Bibliography and index of geothermal resources and development in Washington State, with selected general works, compiled by R. A. Christie and updated by Lee Walkling. 2009. 90 p. [ONLINE] — Web only

Supersedes Open File Report 94-1.

2009-3 Data supplement to GM-74—Geologic map of the Meeks Table and western two-thirds of the Nile 7.5-minute quadrangles, Yakima County, Washington, by P. E. Hammond. 2009. 1 Microsoft Excel file. [ONLINE] — Web only

2009-4 Geochemistry, geochronology, and sand point count data for the Snoqualmie 7.5-minute quadrangle, King County, Washington, by J. D. Dragovich, H. A. Littke, J. H. MacDonald, Jr., S. A. DuFrane, M. L. Anderson, G. R. Wessel, Renate Hartog. 2009. 3 Microsoft Excel files with 35 p. text. [ONLINE] — Web only

2009-5 Geologic map of the Lake Wooten 7.5-minute quadrangle, Mason County, Washington, by R. E. Derkey, N. J. Hehemann, and Katelin Alldritt. 2009. 35 x 36 in. color sheet, scale 1:24,000. [ONLINE] — Web only

2009-6 Geologic map of the Mason Lake 7.5-minute quadrangle, Mason County, Washington, by R. E. Derkey, N. J. Hehemann, and Katelin Alldritt. 2009. 35 x 36 color sheet, scale 1:24,000. [ONLINE] — Web only

2009-7 Geologic map of the Belfair 7.5-minute quadrangle, Mason, Kitsap, and Pierce Counties, Washington by Michael Polenz, Katelin Alldritt, N. J. Hehemann, I. Y. Sarikhan, and R. L. Logan. 2009. 45 x 36 in. color sheet, scale 1:24,000. [ONLINE] — Web only

2009-8 Geologic map of the Burley 7.5-minute quadrangle, Kitsap and Pierce Counties, Washington, by Michael Polenz, Katelin Alldritt, N. J. Hehemann, and R. L. Logan. 2009. 41 x 36 in. color sheet, scale 1:24,000. [ONLINE] — Web only

2009-9 Tsunami hazard map of Tacoma, Washington—Model results for Seattle fault and Tacoma fault earthquake tsunamis, by T. J. Walsh, Diego Arcas, A. J. Venturato, V. V. Titov, H. O. Mofjeld, C. C. Chamberlin, and F. I. González. 2009. 55 x 36 in. color sheet, scales 1:36,000 and 1:62,500. [ONLINE] — Web only

2010-1 Geologic map of the Carnation 7.5-minute quadrangle, King County, Washington, by J. D. Dragovich, H. A. Littke, M. L. Anderson, G. R. Wessel, C. J. Koger, J. H. Saltonstall, J. H. MacDonald Jr., S. A. Mahan, and S. A. DuFrane. 2010. 42 x 36 in. color sheet, scale 1:24,000, with 21 p. text. [ONLINE] — Web only

2010-2 Supplement to the geologic map of the Carnation 7.5-minute quadrangle, King County, Washington—Geochronologic, geochemical, point count, geophysical, earthquake, fault, and neotectonic data, by J. D. Dragovich, M. L. Anderson, J. H. MacDonald Jr., S. A. Mahan, S. A. DuFrane, H. A. Littke, G. R. Wessel, J. H. Saltonstall, C. J. Koger, and Recep Cakir. 2010. 42 p. with 8 digital appendices. [ONLINE] — Web only

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2010-3	Geologic map of the Skokomish Valley and Union 7.5-minute quadrangles, Mason County, Washington, by Michael Polenz, J. L. Czajkowski, Gabriel Legorreta Paulin, T. A. Contreras, B. A. Miller, M. E. Martin, T. J. Walsh, R. L. Logan, R. J. Carson, C. N. Johnson, R. H. Skov, S. A. Mahan, and C. R. Cohan. 2010, rev. 2011. 42 x 36 in. color sheet, scale 1:24,000, with 21 p. text. [ONLINE]	Web only
2010-4	Geologic map of the Lilliwaup 7.5-minute quadrangle, Mason County, Washington, by T. A. Contreras, Gabriel Legorreta Paulin, J. L. Czajkowski, Michael Polenz, R. L. Logan, R. J. Carson, S. A. Mahan, T. J. Walsh, C. N. Johnson, and R. H. Skov. 2010. 27.5 x 36 in. color sheet, scale 1:24,000, with 13 p. text. [ONLINE]	Web only
2010-5	Supplement to geologic maps of the Lilliwaup, Skokomish Valley, and Union 7.5-minute quadrangles, Mason County, Washington—Geologic setting and development around the Great Bend of Hood Canal, by Michael Polenz, T. A. Contreras, J. L. Czajkowski, Gabriel Legorreta Paulin, B. A. Miller, M. E. Martin, T. J. Walsh, R. L. Logan, R. J. Carson, C. N. Johnson, R. H. Skov, S. A. Mahan, and C. R. Cohan. 2010. 27 p. [ONLINE]	Web only
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
2010-7	Directory of Washington State surface mining reclamation sites – 2010, by T. C. Duerr. 2010. 282 p. [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
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
2011-3	Geologic map of the Hoodsport 7.5-minute quadrangle, Mason County, Washington, by Michael Polenz, B. A. Miller, Nigel Davies, B. B. Perry, K. P. Clark, T. J. Walsh, R. J. Carson, and J. F. Hughes. 2012. 33 x 36 in. color sheet, scale 1:24,000, with 18 p. text. [ONLINE]	Web only
2011-4	Analytical data from the Hoodsport 7.5-minute quadrangle, Mason County, Washington—Supplement to Open File Report 2011-3, by Michael Polenz, B. A. Miller, Nigel Davies, B. B. Perry, J. F. Hughes, K. P. Clark, T. J. Walsh, J. H. Tepper, and R. J. Carson. 2012. 42 p. [ONLINE]	Web only
2011-5	Geologic map of the Holly 7.5-minute quadrangle, Jefferson, Kitsap, and Mason Counties, Washington, by T. A. Contreras, S. A. Weeks, K. M. D. Stanton, B. W. Stanton, B. B. Perry, T. J. Walsh, R. J. Carson, K. P. Clark, and S. A. Mahan. 2012. 37 x 36 in. color sheet, scale 1:24,000, with 13 p. text. [ONLINE]	Web only
2011-6	Analytical data from the Holly 7.5-minute quadrangle, Jefferson, Kitsap, and Mason Counties, Washington—Supplement to Open File Report 2011-5, by T. A. Contreras, S. A. Weeks, and B. B. Perry. 2012. 16 p. [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
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
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
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
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

■ OPEN FILE REPORTS ■

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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

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

1.	Olympic Peninsula manganese, by J. W. Melrose. 1940. 30 p. [ONLINE]	Out of print
2.	Washington iron ores, a summary report, by S. L. Glover. 1942. 23 p. [ONLINE]	Out of print
3.	Mineral resources of the Wenatchee–Ellensburg–Yakima region, by S. L. Glover. 1942. 13 p. [ONLINE]	Out of print
4.	Coal and coal mining in Washington, by S. H. Green. 1943. 41 p., 3 figs. [ONLINE]	Out of print
4R.	Coal and coal mining in Washington, by S. H. Green. 1947. 41 p., 3 figs. [Revision of RI 4.] [ONLINE]	Out of 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 of print
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 of print
7.	Manganese deposits of the Olympic Peninsula, Washington, by S. H. Green. 1945. 45 p., 5 pl., 1 fig. [ONLINE]	Out of print

Division of Geology

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 of print
2.	Oil and gas possibilities of western Whatcom County, by S. L. Glover. 1935. 69 p., 1 pl., 1 fig. [ONLINE]	Out of 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 of print
4.	Preliminary report on petroleum and natural gas in Washington, by S. L. Glover. 1936. 24 p., 1 pl. [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 of 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
7.	Character and tonnage of the Turk magnesite deposit, by W. A. G. Bennett. 1943. 22 p., 1 pl., 1 fig. [ONLINE]	In print
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 of print
9.	Inventory of mineral properties in Chelan County, Washington, by M. T. Huntting. 1943. 63 p., 1 pl. [ONLINE]	Out of 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 of print
11.	Stratigraphic aspects of the Blewett–Cle Elum iron ore zone, Chelan and Kittitas Counties, Washington, by R. L. Lupher. 1944. 63 p., 2 pl. [ONLINE]	Out of 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 of print
13.	Dolomite resources of Washington, by W. A. G. Bennett. 1944. 35 p., 12 pl., 2 figs. [ONLINE]	Out of print
14.	Some magnetite deposits of Stevens and Okanogan Counties, Washington, by W. A. Broughton. 1945. 24 p., 5 pl., 1 fig. [ONLINE]	Out of print

Division of Mines and Geology

15.	Pumice and pumicite occurrences of Washington, by Ward Carithers. 1946. 78 p., 6 pl., 7 figs. [ONLINE]	Out of print
16.	Origin and occurrence of gem stones in Washington, by S. L. Glover. 1949. 32 p. [ONLINE]	Out of print
17.	Perlite and other volcanic glass occurrences in Washington, by M. T. Huntting. 1949. 32 p. [ONLINE]	Out of print
18.	Molybdenum occurrences of Washington, by C. P. Purdy Jr. 1954. 118 p., 13 pl., 4 figs. [ONLINE]	Out of 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 of 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 of 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
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 of print
23.	Mineralogy of black sands at Grays Harbor, Washington, by G. W. Thorsen. 1964. 29 p., 6 figs. [ONLINE]	Out of print

Division of Geology and Earth Resources

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
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 of print
26.	Coastal wells of Washington, by W. W. Rau and C. R. McFarland. 1982. 4 sheets. [ONLINE]	In print
27.	Geology of the Grande Ronde lignite field, Asotin County, Washington, by K. L. Stoffel. 1984. 79 p., 1 pl., scale 1:48,000, 71 figs. [ONLINE]	In print
28.	Tin, tungsten, and molybdenum geochemistry of parts of Stevens and Spokane Counties, Washington, by B. B. Bunning. 1985. 57 p., 30 figs. [ONLINE]	In print

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29. Mima Mounds—An evaluation of proposed origins with special reference to the Puget Lowland, by A. L. Washburn. 1988. 53 p., 13 figs. [ONLINE] — In print

30. Geology of the Upper Proterozoic to Lower Cambrian Three Sisters Formation, Gypsy Quartzite, and Addy Quartzite, Stevens and Pend Oreille Counties, northeastern Washington, by K. A. Lindsey, D. R. Gaylord, and L. H. Groffman. 1990. 37 p., 29 figs. [ONLINE] — In print

31. Paleontology and stratigraphy of Eocene rocks at Pulali Point, Jefferson County, eastern Olympic Peninsula, Washington, by R. L. Squires, J. L. Goedert, and K. L. Kaler. 1992. 27 p., 3 pl., 7 figs. [ONLINE] — In print

32. Liquefaction features from a subduction zone earthquake—Preserved examples from the 1964 Alaska earthquake, by T. J. Walsh, R. A. Combellick, and G. L. Black. 1995. 80 p., 75 figs., 3 tables. [ONLINE] — In print

33. Late Pleistocene stratigraphy in the south-central Puget Lowland, Pierce County, Washington, by R. K. Borden and K. G. Troost. 2001. 33 p., 29 figs., 3 tables. [ONLINE] — In print

34. Digital landslide inventory for the Cowlitz County urban corridor—Kelso to Woodland (Coweeman River to Lewis River), Cowlitz County, Washington, by K. W. Wegmann. 2003. Consists of a GIS inventory of landslides as ArcView shapefiles, a Microsoft Access database, a Microsoft Excel spreadsheet version of the database, digital photographs of individual landslides, associated metadata, 1:24,000-scale landslide inventory maps for 7.5-minute quadrangles in the inventory area, and 20 p. text. 1 CD-ROM. — Out of print

Superseded by Report of Investigations 35.

35. Digital landslide inventory for the Cowlitz County urban corridor, Washington, by K. W. Wegmann. 2006. Consists of a GIS inventory of landslides as ESRI shapefiles with associated metadata, digital photographs of individual landslides, 1:24,000-scale landslide inventory maps for 7.5-minute quadrangles in the inventory area, and a 24 p. text. 1 CD-ROM. [ONLINE] — In print

Supersedes Report of Investigations 34.

36. Earthquake-induced landslide and liquefaction susceptibility and initiation potential maps for tsunami inundation zones in Aberdeen, Hoquiam, and Cosmopolis, Grays Harbor County, Washington, for a M9+ Cascadia subduction zone event, by S. L. Slaughter, T. J. Walsh, Anton Ypma, K. M. D. Stanton, Recep Cakir, and T. A. Contreras. 2013. Two color sheets: 36 x 43 in. and 36 x 28 in., scale 1:18,000, plus 39 p. text. [ONLINE] — In print

37. Landslide and liquefaction maps for the Long Beach Peninsula, Pacific County, Washington—Effects on tsunami inundation zones of a Cascadia subduction zone earthquake, by S. L. Slaughter, T. J. Walsh, Anton Ypma, K. M. D. Stanton, Recep Cakir, and T. A. Contreras. 2013. Three color sheets: 44.5 x 36 in., scale 1:18,000, plus 27 p. text. [ONLINE] — In print

38. Landslide and liquefaction maps for the Ocean Shores and Westport peninsulas, Grays Harbor County, Washington—Effects on tsunami inundation zones of a Cascadia subduction zone earthquake, by S. L. Slaughter, T. J. Walsh, Anton Ypma, and Recep Cakir. 2014. Three color sheets: 39 x 36 in., scale 1:18,000, plus 26 p. text. [ONLINE] — In print

Washington Geological Survey

39. Landslide inventory, susceptibility, and exposure analysis of Pierce County, Washington, by K. A. Mickelson, K. E. Jacobacci, T. A. Contreras, A. Biel, and S. L. Slaughter. 2017. 26 p. text, 2 ESRI geodatabases, and 1 Microsoft Excel file. [ONLINE] — Web only

40. Landslide inventory and susceptibility of the Columbia Gorge in Clark, Skamania, and Klickitat Counties, Washington, by K. A. Mickelson, K. E. Jacobacci, T. A. Contreras, W. Gallin, and S. L. Slaughter. 2018. 11 p. text and 2 ESRI geodatabases. [ONLINE] — Web only

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

■ 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
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
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
4. Nickel-gold ore of the Mackinaw mine, Snohomish County, Washington, by Charles Milton and D. J. Milton. 1959. 22 p. [ONLINE] — Web only
5. What are the prospects in Washington State?, by F. H. Wurden; and Puget Sound area has several prospective oil and gas basins, by J. Q. Anderson. 1959. 10 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
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
8. Emplacement of the Twin Sisters Dunite, Washington, by D. M. Ragan. 1963. 16 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
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)

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
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
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

■ TOPOGRAPHIC MAPS ■

Topographic Maps are available online only.

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-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

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

■ 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

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

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

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

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

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

Holocene geologic history and sedimentology of the Duwamish and Puyallup valleys, Washington, by S. P. Palmer. 1997. 32 p. [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

Capitol campus greenhouse soil stability investigation status report, by S. P. Palmer and W. J. Gerstel. 1995. 1 v. [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

Cyanide heap leaching—A report to the Legislature, by D. K. Norman and R. L. Raforth. 1994. 28 p. [ONLINE] — Web only

Fundamentals of blasting and reclamation workshop, by A. E. Teller. 1994. [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

General geology and paleontology of the Harsha 7.5 quadrangle, by P. K. Spencer. 1992? 14 p. [ONLINE] — Web only

Thunder Creek basin, Skagit County—Report of DNR Study Team, by Jerry Thorsen. 1989. 33 p. [ONLINE] — Web only

The Culver System in Washington State, by J. E. Schuster. 1988. [ONLINE] — Web only

Guide to production of 1:100,000-series open file reports, by Bill Phillips. 1988. 17 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

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

Notes on division history, by J. E. Schuster. 1986. 9 p. [ONLINE] — Web only

Gems and minerals of Washington, by Bob Pattie. 1985. 1 sheet, scale 1:443,520. [ONLINE] — Web only

Washington's coal—History and future development potential, by Raymond Lasmanis and H. W. Schasse. 1982. 24 p. [ONLINE] — Web only

Forest Slope Stability Project, Phase II, by A. J. Fiksdal and M. J. Brunengo. 1981. 2 v. [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

A pre-1980 eruption description of Mount St. Helens, by the Washington Division of Geology and Earth Resources. 1980. 10 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

Photographic guide keyed to 15-minute quadrangles [supplement to OFR 79-2. An assessment of the uranium potentional in the Ellensburg Formation, south-central Washington], by P. C. Milne. 1979. [47 p.] [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

Geothermal energy—Questions and answers, by J. E. Schuster. 1972. 4 p. [ONLINE] — Web only

Holden tailings [Holden mine, Chelan County], by G. W. Thorsen. 1970. 20 p. [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

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

Ghost town references, by the State of Washington Board of Natural Resources. 1968? 3 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

State mineral production near record level in 1966, by M. T. Huntting. 1967? 9 p. [ONLINE] — Web only

Mine production record set in 1965, by M. T. Huntting. 1966? 3 p. [ONLINE] — Web only

Mining developments and future needs of Washington, by M. T. Huntting. 1965. 6 p. [ONLINE] — 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

■ MISCELLANEOUS REPORTS ■

Miscellaneous Reports are available online 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] *Superseded by Bulletin 41.*	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

■ 3D PDFS—7.5-MINUTE QUADRANGLES ■

The following geologic maps have been processed and converted into 3D models.
The listed publisher, series, author, and year are for the original publication.

Airway Heights
WGS Open File Report 2004-1—Derkey and others, 2004

Auburn
USGS GQ 406—Mullineaux and others, 1961

Belfair
WGS Open File Report 2009-7—Polenz and others, 2009

Black Diamond
USGS GQ 407—Mullineaux and others, 1965

Brinnon
WGS Map Series 2012-02—Polenz and others, 2012

Buckley
USGS PP 388A—Crandell and others, 1959

Burley
WGS Open File Report 2009-8—Polenz and others, 2009

Camano
WGS Geologic Map 68—Polenz and others, 2009

Carnation
WGS Open File Report 2010-02—Dragovich and others, 2010

Center
WGS Map Series 2014-02—Hanson and others, 1976

Chattaroy
WGS Geologic Map 55—Hamilton and others, 2005

Cliffdell and Manastash Lake
WGS Geologic Map 76—Hammond and others, 2010

College Place and Walla Walla
WGS Geologic Map 62—Derkey and others, 2006

Coupeville
WGS Geologic Map 58—Polenz and others, 2005

Crescent Harbor
WGS Geologic Map 59—Dragovich and others, 2005

Darrington
WGS Open File Report 2002-7—Dragovich and others, 2002

Deer Island
WGS Geologic Map 54—Evarts and others, 2002

East Olympia
WGS Geologic Map 56—Walsh and others, 2005

Eldon
WGS Map Series 2012-03—Contreras and others, 2012

Elwha and Angeles Point
WGS Open File Report 2004-14—Polenz and others, 2004

Fall City
WGS Geologic Map 67—Dragovich and others, 2007

Fortson
WGS Open File Report 2002-6—Dragovich and others, 2002

Four Lakes
WGS Open File Report 2004-2—Hamilton and others, 2004

Four Mound Prairie
WGS Geologic Map 66—Derkey and others, 2007

Fox Island
WGS Geologic Map 63—Logan and others, 2006

Freeland and Hansville
WGS Geologic Map 64—Polenz and others, 2006

Greenacres
WGS Open File Report 2004-11—Derkey and others, 2004

Holly
WGS Open File Report 2011-6—Contreras and others, 2012

Hoodsport
WGS Open File Report 2011-3—Polenz and others, 2012

Juniper Beach
WGS Geologic Map 70—Schasse and others, 2009

Lacey
WGS Open File Report 2003-9—Logan and others, 2003

Lake Chaplain
WGS Map Series 2014-01—Dragovich and others, 2014

Lake Joy
WGS Map Series 2012-01—Dragovich and others, 2012

Lake Wooten
WGS Open File Report 2009-5—O'Neal and others, 2005

Langley
WGS Geologic Map 69—Schasse and others, 2009

Liberty Lake and Newman Lake
WGS Open File Report 2004-12—Derkey and others, 2004

Lilliwaup
WGS Open File Report 2010-4—O'Neal and others, 2005

Lofall
WGS Map Series 2013-03—Contreras and others, 2013

Longbranch
WGS Open File Report 2003-21—Logan and others, 2003

Mason Lake
WGS Open File Report 2009-6—Derkey and others, 2009

Maytown
WGS Geologic Map 72—Logan and others, 2009

McMurray
WGS Geologic Map 61—Dragovich and others, 2006

McNeil Island
WGS Open File Report 2003-22—Walsh and others, 2003

Meeks Table and Nile
WGS Geologic Map 74—Hammond and others, 2009

Monroe
WGS Open File Report 2011-1—Capps and others, 1973

Morse Creek
WGS Open File Report 2002-8—Schasse and others, 2002

Mt Higgins
WGS Open File Report 2003-12—Dragovich and others, 2003

Nine Mile Falls
WGS Open File Report 2003-8—Derkey and others, 2003

Nisqually
WGS Open File Report 2003-10—Walsh and others, 2003

North Bend
WGS Geologic Map 73—Dragovich and others, 2009

■ 3D PDFS—7.5-MINUTE QUADRANGLES ■

The following geologic maps have been processed and converted into 3D models. The listed publisher, series, author, and year are for the original publication.

Oak Harbor
WGS Geologic Map 59—Dragovich and others, 2005

Olsen Canyon
WGS Geologic Map 71—Derkey and others, 2009

Orting
USGS PP 388A—Crandell and others, 1959

Port Angeles and Ediz Hook
WGS Open File Report 2004-13—Schasse and others, 2004

Port Townsend South
WGS Geologic Map 57—Schasse and others, 2005

Quilcene
WGS Map Series 2014-03—Hanson and others, 1976

Seabeck and Poulsbo
WGS Map Series 2013-02—Polenz and others, 2013

Shelton
WGS Open File Report 2003-24—Schasse and others, 2003

Skokomish Valley and Union
WGS Open File Report 2010-03—Polenz and others, 2011

Snoqualmie
WGS Geologic Map 75—Dragovich and others, 2009

Spokane NW
WGS Open File Report 2004-3—Derkey and others, 2004

Spokane SW
WGS Open File Report 2004-4—Hamilton and others, 2004

Squaxin Island
WGS Open File Report 2003-23—Logan and others, 2003

Stimson Hill
WGS Open File Report 2004-9—Dethier and others, 1980

Sultan
WGS Map Series 2013-01—Dragovich and others, 2013

Summit Lake
WGS Open File Report 2004-10—Logan and others, 2004

Timberwolf Mtn
WGS Geologic Map 60—Hammond and others, 2005

Tumwater
WGS Open File Report 2003-25—Walsh and others, 2003

Utslady and Conway
WGS Open File Report 2002-5—Dragovich and others, 2002

Vaughn
WGS Geologic Map 65—Logan and others, 2007

Wilkeson
USGS PP 388A—Crandell and others, 1959

■ 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 2013. [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 acrass Washington State. [ONLINE]