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LANDSLIDES OF WASHINGTON — AN ANNOTATED BIBLIOGRAPHY THROUGH 1982

By
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LANDSLIDE BIBLIOGRAPHY

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Location: Pend Oreille, Stevens, and Spokane Counties.
Includes map unites: Qt Talus; Qls Landslide debris.

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Location: Lower Columbia River Gorge.
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Detailed diagrams showing the progression of the landslides and eruption of Mount St. Helens, May 18, 1980.

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Location: Lincoln County.
Brief description of landslide debris on shores of Lake Roosevelt.

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Location: King County.
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Location: Klickitat County.
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Artim, Ernest R., 1973, Landslides--An expanding problem for the Puget Lowland: Washington Geologic Newsletter, v. 1, no. 2, p. 1-3.
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Location: Chelan and Douglas Counties.

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Location: Yakima County.
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Geologic map includes map unit for Mass-wasting deposits: slumps, slides, rockfalls, and mud and debris flows.

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Location: Columbia Plateau.
Mentions landslides along Highway 10.

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Location: Clark County.
Brief description of a large Pleistocene (?) landslide cause by undercutting of the Columbia river.

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Location: Lewis County
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Baldwin, Ewart M., 1966, Geology of the Columbia River Gorge: Northwest Science, v. 40, no. 4, p. 121-128.
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Includes map units for: Landslides and debris fans; Flows and unconsolidated volcanic deposits from Mount St. Helens. Symbol for: Landslide scarps.

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Location: Chelan County.
Mentions large slide (historic) at "The Narrows" on Lake Chelan.

Barnes, Farrell F.; Butler, John W., Jr., 1930, The structure and stratigraphy of the Columbia River Gorge and Cascade Mountains in the vicinity of Mount Hood: University of Oregon Master of Arts thesis, 136 p., 2 plates.
Location: Skamania County.
Discussion of Wind River, Cascade, and Skamania slide areas (p. 18-19, 28, 30, 111-112, 119-124).

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Location: Skamania County.
Post-1980 description and discussion of potential hazards to the Trojan Nuclear Site from an eruption of Mount St. Helens: pyroclastic flows, p. 64-66; mudflows, p. 67-71.

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Location: Lincoln and Stevens Counties.
Gives location of two slides on the Spokane River (p. 60). (Landslides not shown on Geologic Map.)
Abstract: Dissertation Abstracts, v. 20, no. 3, p. 988, 1959.

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Location: Snohomish County.
Brief description of pyroclastic flows and lahars.

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Geologic map includes map unit: Qls Landslide deposits.

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Location: Yakima County.
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Description of slump blocks along Saddle Mountains fault, p. 35-38; of block gliding, p. 46-48. Geologic maps include map unit: Landslide debris.

Birch, Donald C., 1952, The Wind River slide: U. S. Bonneville Power Administration unpublished report, 1 vol., 1 plate, scale 1:2000.
Location: Skamania County (Columbia River Gorge)
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Location: Jefferson County.
Through discussion of causes and locations of earthflows, slumps, and debris flows in study area. (Detailed slope stability mapping is shown on his Division of Geology and Earth Resources Open-File Report 76-27.)

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Location: Jefferson County
Detailed slope stability map of study area.

Birdseye, Richard Underwood, 1977, Glacial and environmental geology of east-central Jefferson County, Washington [abstract]: Geological Society of America Abstracts with Programs, v. 9, no. 5, p. 575.
Location: Jefferson County.
Mentions landslides. (Note: For full study, see his Masters thesis.)

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Geologic map includes map unit: Qls Landslide.

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Location: Whatcom County.
Brief discussion of slump block slides, p. 8.

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Radiocarbon dating of the Bridge of the Gods landslide.

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Location: Grays Harbor, Lewis, Pacific, and Thurston Counties.
Brief discussion of landslides near Centralia, p. 16. Geologic map includes map unit: Qls Landslide debris.

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Location: Benton County.
Brief discussion of landslides, p. 32-33. Geologic map includes map unit: Qls Landslide.

Brown, Randall E., 1968, A study of reported faulting in the Pasco Baisn: Battelle Pacific Northwest Laboratories BNWL-662, 55 p.
Location: Pasco Basin (Grant, Franklin & Benton Counties)
Examination of regional landslides including the Corfu slide p. 43-50.

Brown, Randall E., 1970, Interrelationships of geologic formations and processes affecting ecology as exposed at Rattlesnake Springs, Hanford Project: Battelle Pacific Northwest Laboratory BNWL-B-29, Arid Land Ecology Program Reprint Series 3, 42 p.
Location: Benton County.
Brief mentions of landslides, p. 22, 30 in discussion of local deformation. Figure 2, "Time and Geologic Events" includes geologic unit "Landslides".

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Location: Benton and Franklin Counties.
Brief discussion of the frequent landslides in the Ringold Formation as caused by irrigation.

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Geologic map includes map unit: Ql Landslide debris.

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Location: Clallam County.
Geologic map includes map unit: Landslide debris.

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Geologic map includes map unit: Landslide deposits.

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Location: Cascade Range
Overview of Cascade Range landslides, p. 23-24.

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Location: Stevens County.
Mentions landslide northeast of Keystone quarry, caused by glacial action p. 35.

Campbell, Newell P., 1976, Preliminary geologic map of Yakima area: Washington Division of Geology and Earth Resources Open-File Report 76-11, 1 sheet, map scale 1:24,000.
Location: Yakima County.
Geologic map includes map unit: Landslide debris.

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Location: Yakima County.
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Location: Yakima County.
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Campbell, Newell P., 1979, Surficial geologic map of The Dalles quadrangle, Washington: Washington Division of Geology and Earth Resources Open-File Report 79-12, 1 sheet, map scale 1:250,000.
Location: Klickitat County.
Geologic map includes map units: Qc Colluvium; Qls Landslide deposits.

Campbell, Newell P., 1979, Surficial geologic map of the Pendleton quadrangle, Washington: Washington Division of Geology and Earth Resources Open-File Report 79-8, 1 sheet, map scale 1:250,000.
Location: Klickitat and Benton Counties
Geologic map includes map units: Qc Colluvium; Qls Landslide deposits.

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Location: Yakima and Klickitat Counties.
Geologic map includes map units: Qc Colluvium; Qls Landslide deposits.

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Location: Yakima County.
Detailed slope stability map.

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Location: Grant, Adams, Yakima, Benton, Franklin, Whitman, Columbia, and Walla Walla Counties.
Geologic map includes map units: Qc Colluvium; Qls Landslide deposits.

Carey, Allen S., 1944, Coulee reservoir slides: (Seattle), U.S. Army Corps of Engineers.
Location: Ferry and Stevens Counties.
Photographs and text locating numerous slides in the 80-mile area down the reservoir from Gifford to Sanpoil Bay.

Carlson, Chris, 1973, Preliminary geologic map of Wahkiakum County: Washington Division of Geology and Earth Resources unpublished map, 2 sheets, map scale 1:62,500.
Location: Wahkiakum County.
Includes map unit: Landslide debris.

Carson, Robert James, 1970, Quaternary geology of the south-central Olympic Peninsula, Washington: University of Washington Doctor of Philosophy thesis, 67 p., 2 plates.
Location: Mason and Grays Harbor Counties.
Mentions landslides, p. 52 (Not shown on geologic map.)
Abstracts: Northwest Science, v. 44, no. 1, p. 60, 1970; Dissertation Abstracts International, v. 31, no. 10, p. 6063B, 1971.

Carson, Robert J., 1973, Environmental geology of the northwestern portion of the Potlatch quadrangle, Washington [abstract]: Geological Society of America Abstracts with Programs, v. 5, no. 5, p. 384-385.
Location: Mason County.
Mentions landslides and slope stability as environmental considerations.

Carson, Robert J., 1975, rev. 1981, Slope stability map of north-central Mason County, Washington: Washington Division of Geology and Earth Resources Open-File Report 75-4, 1 sheet, map scale 1:62,500.
Location: Mason County.
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Carson, Robert J., 1976, Preliminary geologic map of north-central Mason County, Washington: Division of Geology and Earth Resources Open-File Report 76-2, 1 sheet, map scale 1:62,500.
Location: Mason County.
Geologic map includes map units for: Young landslides; Old landslides.

Carson, Robert J., 1976, Relative slope stability of the Brinnon area, Jefferson County, Washington: Washington Division of Geology and Earth Resources Open-File Report 76-15, 1 sheet, map scale 1:24,000.
Location: Jefferson County.
Detailed slope stability map.

Carson, Robert J.; Gryta, J. J.,1974, Jorsted Creek slide, Mason County: Washington Geologic Newsletter, v. 2, no. 3, p. 1-2.
Location: Mason County.
Discussion and description of current (1974) landslide.

Carson Helicopters, Inc., 1981, NURE Aerial gamma ray and magnetic detail survey of portions of northeast Washingotn; final report: U.S. Department of Energy GJBX 1(82), 12 vol.
Location: Northeastern Washington.
Geologic maps include map units: Qt Talus; Qls Landslide debris.

Cary, Allen S., 1968, Military road slide. in McKee, Bates; Coombs, Howeard, 1968, Guidebook to field trips; Association of Engineering Geologists 1968 National Meeting, Seattle, Washington, October 22-26, 1968: Association of Engineering Geologists, p. 79-84.
Location: King County
Discussion and description of landslide.

Cashman, Susan Moran, 1974, Geology of the Peshastin Creek area, Washington: University of Washington Master of Science thesis, 29 p., 1 plate.
Location: Chelan County.
Discussion and description of landslide, p. 4. (Not shown on geologic map.)

Castor, S. B.; Berry, M. R.; Siegmund, B. L., 1980, Uranium resource evaluation, Sandpoint quadrangle, Washington, Idaho, and Montana: Bendix Field Engineering Corporation PGJ 005, 14 sheets microfiche.
Location: Pend Oreille, Stevens and Spokane Counties.
Geologic map includes map units: Qt Talus; Qls Landslide debris.

CH2M Hill, 1981, Final environmental impact statement on the Northern Tier Pipeline System (Washington segment): Washington Energy Facility Site Evaluation Council, 1 vol.
Location: Puget Lowland, Cascade Mountains, Columbia Basin.
Potential for landslides along the bluff at Green Point, p. 2-4.

Chappell, Walter Miller, 1936, Geology of the Wenatchee quadrangle, Washington: University of Washington Doctor of Philosophy thesis, 249 p.
Location: Chelan, Douglas, and Kittitas Counties.
Thorough discussion and description of landslides, p. 217-224; brief mentions, p. 183 and 200. (Not shown on geologic map.)

Chen, John Teh-Jen, 1969, A rheological stress-strain-time relationship for Seattle soils: University of Washington Doctor of Philosophy thesis, 214 p.
Location: King County.
Thorough mathematical analysis of the soil mechanics of the Seattle area.
(Abstract: Dissertation Abstracts International, Section B, v. 30, no 1, p. 5033B, 1970.)

Cheney, Eric S., 1978, Interim report on the seismic and geologic hazards to the proposed Skagit nuclear power site, Sedro Woolley, Washington: [The Author], 1 vol.
Location: Skagit County.
Discussion of mudslides and bedrock slides, p. 100-101.

Chrzastowski, M. J.; Pessl, F., Jr., 1978, Potential submarine landslides in Puget Sound [abstract]: U.S. Geological Survey Professional Paper 1100, p. 79.
Location: Thurston and Pierce Counties.
Brief discussion of submarine landsliding in the Nisqually Delta area, as indicated by detailed bathymetry.

Clayton, Geoff, 1980, Geology of the White Pass-Tumac Mountain area, Washington: Washington Division of Geology and Earth Resources Open-File Report 80-8, 1 sheet, scale 1:24,000.
Location: Lewis and Yakima Counties.
Includes map unit for "Landslide and talus colluvium."

Cleaves, Arthur B., 1961, Landslide investigations; a field handbook for use in highway location and design: Government Printing Office, 67 p.
Location: Yakima County.
Stereo pair of the Toppenish landslide, p. 13.

Cline, D. R., 1969, Ground-water resources and related geology of north-central Spokane and south-eastern Stevens Counties of Washington: Washington Department of Water Resources Water Supply Bulletin 27, 195 p., 2 plates.
Location: Spokane and Stevens Counties.
Discussion of landslide debris, p. 14-15. Geologic map includes map unit: Landslide debris.

Coad, Tom, 1954, BPA's traveling towers: Journal Northwest Living Magazine, Jan 3, 1954.
Location: Skamania County (Columbia River Gorge)
Discussion of Collins landslide and power line maintenance problems.

Conklin, Bonnie Jean, 1981, The structural geology of Cambrian rocks in the Flat Creek area, Stevens County, Washington: Washington State University Master of Science thesis, 94 p., 1 plate.
Location: Stevens County.
Geologic map includes map unit: Qt Talus debris.

Conners, John Anthony, 1976, Quaternary history of northern Idaho and adjacent areas: University of Idaho Doctor of Philosophy thesis, 504 p.
Location: Columbia Basin.
Discussion and description of mass-wasting phenomena, p. 451-453.
Abstract: Dissertation Abstracts International, v. 37, no. 11, p. 5572B-5573B, 1977.

Converse Davis Dixon Associates, Inc., 1976, Final geotechnical report; Swift Creek tributaries, Sumas River watershed, Whatcom County, Washington; prepared for U.S. Soil Conservation Service: (Seattle), Converse Davis Dixon Associates, Inc., 1 vol.
Location: Whatcom County.
Includes discussion of ancient and current landsliding.

Coombs, Howard A., chairman, 1974, Report to the Washington State Legislature (1975 session) from the Ad Hod Committee on Geologic Hazards, appointed by the Senate Committee on Commerce: Washington State Senate, 1 vol.
Location: Washington State.
Recommendations, p. 7; description and discussion of landslide hazards, p. II 1 - II 7; Volcanic hazards (mudflows), recommendations p. 16, discussion and description of mudflow hazards, p. V 1 - V 7. Appendix B includes additional materials on landslides and volcanic mudflows.

Crandell, Dwight R., 1957, Some features of mudflow deposits [abstract]: Geological Society of America Bulletin, v. 68, no. 12, pt. 2, p. 1821.
Location: Puget Lowland.
General discussion of features of volcanic mudflow deposits.

Crandell, Dwight R., 1961, Surficial geology of the Orting quadrangle, Washington: U.S. Geological Survey Open-File Report 61-35, 1 sheet, map scale 1:24,000.
Location: Pierce County
Includes map units: Qms Mass wasting--Slumps; Qmf Mass wasting--Earth-flow deposits; Qem Electron mudflow; Qom Osceola mudflow.

Crandell, Dwight R., 1961, Surficial geology of the Sumner quadrangle, Washington: U.S. Geological Survey Open-File Report 61-36, 1 sheet, map scale 1:24,000.
Location: Pierce County
Includes map units: Qms Mass wasting--Slumps; Qmf Mass wasting--Earth-flow deposits; Qem Electron mudflow; Qom Osceola mudflow.

Crandell, Dwight R., 1961, Surficial geology of the Wilkeson quadrangle, Washington: U.S. Geological Survey Open-File Report 61-37, 1 sheet, map scale 1:24,000.
Location: Pierce County.
Includes map units: Qms Mass wasting--Slumps; Qmf Mass wasting--Earth-flow deposits; Qem Electron mudflow; Qom Osceola mudflow.

Crandell, Dwight R., 1963, Paradise debris flow at Mount Rainier, Washington: U.S. Geological Survey Professional Paper 475-B, p. B135-B139.
Location: Pierce County.
Description of Paradise debris flow and Osceola mud flow.

Crandell, Dwight R., 1963, Surficial geology and geomorphology of the Lake Tapps quadrangle, Washington: U.S. Geological Survey Professional Paper 388-A, 84 p., 1 plate.
Location: Pierce and King Counties.
Description and discussion of Osceola mudflow (p. 46-50, 67), Electron mudflow (p. 50-51, 68), and colluvium (p. 52-53). Geologic map includes map units for: Deposits of mass-wasting processes; Electron and Osceola mudflows.

Crandell, Dwight R., 1966, Volcanic hazards at Mount Rainier [abstract]: Pacific Sci. Congress, 11th, Tokyo, 1966, Proceedings, v. 3, p. 31.
Location: Pierce County.

Crandell, Dwight R., 1969, The geologic story of Mt. Rainier: U.S. Geological Survey Bulletin 1292, 43 p.
Location: Pierce County.
Thorough discussion and description of landslides and mudflows, p. 35-42.

Crandell, Dwight R., 1969, Surficial geology of Mount Rainier National Park, Washington: U.S. Geological Survey Bulletin 1288, 41 p., 1 plate.
Location: Pierce County.
Descriptions and discussions of the landslides, rock avalanches, and mudflows of Mount Rainier. Geologic map shows details of the landslides, rock avalanches, and mudflows.

Crandell, Dwight R., 1971, Postglacial lahars from Mount Rainier volcano, Washington: U.S. Geological Survey Professional Paper 677, 75 p.
Location: Pierce County.
Thorough discussion and description of Mount Rainier lahars.

Crandell, Dwight R., 1973, Application of Quaternary studies to volcanic hazards appraisals in the Cascade Range, western United States [abstract]: Geological Society of America Abstracts with Programs, v. 5, no. 7, p. 586-587.
Location: Cascade Range.

Crandell, Dwight R., 1973 (1974), Map showing potential hazards from future eruptions of Mount Rainier, Washington: U.S. Geological Survey Miscellaneous Investigations Series Map I-836, 1 sheet, map scale 1:25,000.
Location: Pierce County.
Shows potential hazards from volcanic mudflows.

Crandell, Dwight R., 1974, Mount Rainier hazards map: U.S. Geological Survey Professional Paper 900, p. 132.
Location: Pierce County.
Brief description of the hazards map.

Crandell, Dwight R., 1975, Preliminary assessment of potential hazards for future volcanic eruptions in Washington: U.S. Geological Survey Miscellaneous Field Studies Map MF-774, 1 sheet, scale 1:1,000,000.
Location: Washington State.
Shows potential hazards from volcanic mudflows.

Crandell, Dwight R.; Fahnestock, Robert K., 1965, Rockfalls and avalanches from Little Tahoma Peak on Mount Rainier, Washington: U.S. Geological Survey Bulletin 1221-A. p. A1-A30.
Location: Pierce County.
Thorough report on Little Tahoma Peak rockfalls and rock debris avalanches.

Crandell, Dwight R.; Fahnestock, Robert K., 1965, Rockfalls, debris flows, and eruptions at Mount Rainier Washington: U.S. Geological Survey Professional Paper 525A, p. A57-A58.
Location: Pierce County.
Brief overview.

Crandell, Dwight R.; Fahnestock, Robert K., 1966, Rock-fragment flows at Mount Rainier, Washington [abstract]: Geological Society of America Special Paper 87, p. 281-282.
Location: Pierce County.

Crandell, Dwight R.; Gard L. M., Jr., 1959, Geology of the Buckley quadrangle, Washington: U.S. Geological Survey Geologic Quadrangle Map GQ-125, 1 sheet, map scale 1:24,000.
Location: Pierce and King Counties.
Includes map unit for Osceola mudflow.

Crandell, Dwight R.; Hendricks, E. L.; Sigafoos, R. S., 1965, Quaternary geology of the area between Chehalis and Mount Rainier National Park. in International Association for Quaternary Research, 1965, Guidebook for field conference J, Pacific Northwest: International Association for Quaternary Research, p. 13-22.
Location: Pierce and Lewis Counties.
Description of the Kautz Creek debris flows and the Paradise debris flows at Mount Rainier, p. 18-20.

Crandell, Dwight R.; Meier, Mark F.; Mullineaux, Donal R., 1965, Quaternary geology of Paradise Park. in International Association for Quaternary Research, 1965, Guidebook for field conference J, Pacific Northwest: International Association for Quaternary Research, p. 22-27.
Location: Pierce County.
Description of Paradise Debris flow at Mount Rainier, p. 22-24.

Crandell, Dwight R.; Miller, Robert D., 1974, Quaternary stratigraphy and extent of glaciation in the Mount Rainier region, Washington: U.S. Geological Survey Professional Paper 847, 59 p., 1 plate, map scale 1:250,000.
Location: Pierce and Lewis Counties.
Geologic map includes map unit: Landslide deposits (Holocene)

Crandell, Dwight R.; Mullineaux, Donal R., 1967, Volcanic hazards at Mount Rainier, Washington: U.S. Geological Survey Bulletin 1238, 26 p.
Location: Pierce County.
Includes discussion of landslides, mudflows and debris flows of Mount Rainier.

Crandell, Dwight R.; Mullineaux, Donal R., 1973, Pine Creek volcanic assemblage at Mount St. Helens, Washington: U.S. Geological Survey Bulletin 1383A, 23 p.
Location: Skamania County.
Describes deposits of flows and lahars during postglacial eruptions, p. 23.

Crandell, Dwight R; Mullineaux, Donal R., 1974, Appraising volcanic hazards of the Cascade Range of the northwestern United States: Earthquake Information Bulletin, v. 6, no. 5, p. 3-10.
Location: Cascade Range
Includes mudflow hazards of Mt. Rainier and Mt. St. Helens.

Crandell, Dwight R.; Mullineaux, Donal R., 1975, Appraising volcanic hazards of the Cascade Range: Ore Bin, v. 37, no. 11, p. 173-183.

(Reprinted from Earthquake Information Bulletin)

Crandell, Dwight R.; Mullineaux, Donal R., 1975, Technique and rationale of volcanic-hazards appraisals in the Cascade Range, northwestern United States: Environmental Geology, v. 1, no. 1, p. 23-32.
Location: Cascade Range.
Includes discussion of potential mudflows and debris flows from Mt. Rainier and Mount St. Helens.

Crandell, Dwight R.; Mullineaux, Donal R., 1976, potential hazards from future eruptions of Mount St. Helens volcano, Washington: U.S. Geological Survey Open-File Report 76-491, 25 p., 3 plates.

(Published as U.S. Geological Survey Bulletin 1383-C.)

Crandell, Dwight R.; Mullineaux, Donal R., 1978, Potential hazards from future eruptions of Mount St. Helens volcano, Washington: U.S. Geological Survey Bulletin 1383-C, 26 p, 1 plate.
Location: Skamania and Cowlitz Counties.
Pre-eruption (1978) predictions of potential mudflows, pyroclastic flows, etc. Maps include area of pre-1980 mudflow deposits, and hazardous areas of potential mudflows.

Crandell, Dwight R.; Mullineaux, Donal R., 1980, Mount St. Helens volcano: Earthquake Information Bulletin, v. 12, no. 4, p. 135-140.
Location: Skamania County.
Discussion of mudflow hazards.

Crandell, Dwight R.; Mullineaux, Donal R.; Rubin, Meyer, 1975, Mount St. Helens volcano; recent and future behavior: Ore Bin, v. 37, no. 3, p. 41-48.
Location: Skamania County.
(Reprinted from Science, v. 187, no. 4175, 1975)

Crandell, Dwight R.; Mullineaux, Donal R.; Rubin, Meyer, 1975, Mount St. Helens volcano; recent and future behavior: Science, v. 187, no. 4175, p. 438-441.
Location: Skamania County.
Largely a comparison of Mount St. Helens eruptions with those of other volcanoes.

Crandell, Dwight, R.; Mullineaux, Donal R.; Miller, C. D., 1979, Volcanic hazards studies in the Cascade Range of the western United States. in Sheets, P. D.; Grayson, D. K., eds., 1979, Volcanic activity and human ecology: Academic Press, p. 195-218.
Location: Cascade Range.
(Not available for examination 9/82)

Crandell, D. R.; Mullineaux, D.R.; Miller, C.D., 1979, Volcanic hazards studies in the Cascade Range of the western United States. in Sheets, P.D.; Grayson, D.K., eds., 1979, Volcanic activity and human ecology: Academic Press, p. 195-218.
(Not available for examination 9/82)

Crandell, Dwight R.; Mullineaux, Donal R.; Rubin, Meyer, 1975, Mount St. Helens volcano; recent and future behavior: Science, v. 187, no. 4175, p. 438-441.
Location:
Discussion of the potential (1975) eruptions of Mt. St. Helens and the consequent pyroclastic flows and mudflows.

Crandell, Dwight R.; Mullineaux, Donal R.; Waldron, H. H., 1965, Quaternary geology of the Puget Lowland south of Seattle. in International Association for Quaternary Research, 1965, Guidebook for field conference J, Pacific Northwest: International Association for Quaternary Research, p. 51-59.
Location: King County.
Description of the Osceola mudflow, and mention of landslide area along Dearborn Street in Seattle, p. 54, p. 56-59.

Crandell, Dwight R.; Waldron, H. H., 1956, A recent volcanic mudflow of exceptional dimensions from Mt. Rainier, Washington: American Journal of Science, v. 254, no. 6, p. 349-369.
Location: Pierce County.
Thorough description and discussion of the Osceola mudflow.

Crandell, Dwight R.; Waldron, Howard H., 1969, Volcanic hazards in the Cascade Range. in Olson, Robert A.; Wallace, M. M., eds., 1969, Geologic hazards and public problems, May 27-28, 1969, conference proceedings: U.S. Office of Emergency Preparedness, p. 5-18.
Location: Cascade Range.
Discusses potential hazards from Cascade volcanoes. Includes description of Osceola and Electron mudflows.

Crandell, Dwight R.; Waldron, Howard H., 1976, Volcanic hazards in the Cascade Range. in Tank, R.W., 1976, Focus on environmental geology; a collection of case histories and readings from original sources: Oxford University Press, p. 39-49.

(Note: Reprinted from "Geologic hazards and public problems, conference proceedings", 1969.)

Crowder, D. F.; Tabor, R. W.; Ford, A. B., 1966, Geologic map of the Glacier Peak quadrangle, Snohomish and Chelan Counties, Washington: U.S. Geological Survey Geologic Quadrangle Map GQ-473, 1 sheet, map scale 1:62,500.
Location: Snohomish and Chelan Counties.
Geologic map includes map unit: Qt Talus.

Cullen, Janet M., 1978, Impact of a major eruption of Mount Rainier on public service delivery system in the Puyallup Valley, Washington: University of Washington Master of Urban Planning thesis, 195 p.
Location: Pierce County.
Thorough discussion of existing (p. 13) and potential (p. 53-64) mudflows from an eruption of Mt. Rainier.

Cullen, Janet M., 1978, Impact of a major eruption of Mount Rainier on public service delivery systems in the Puyallup Valley, Washington. in Marts, Marion E., 1978, Social implications of volcano hazard case studies in the Washington Cascades and Hawaii, final report to the National Science Foundation: University of Washington, 395 p.

(reprint of her Master's thesis.)

Cullen, Janet M., 1978, Impact of a major eruption of Mount Rainier on public service delivery systems in the Puyallup Valley, Washington [abstract]: EOS, v. 59, no. 4, p. 236.

(abstract of her Master's thesis.)

Cullen, Janet M., 1979, Volcanic hazard of Mt. Rainier; a scenario approach. in Washington Department of Emergency Services, 1979, Natural hazards in Washington's coastal zone; anthology of recent articles: Washington Department of Emergency Services, p. 39-46.
Location: Pierce County.
Potential mudflow hazards.

Cummans, John E., 1981, Mudflows resulting from the May 18, 1980 eruption of Mount St. Helens, Washington: U.S. Geological Survey Circular 850-B, 16 p.
Location: Cowlitz and Skamania Counties.
Thorough description, discussion, and chronology of the debris avalanches and mudflows of the Lewis River, and the South and North Forks of the Toutle River, caused by the eruption of Mount St. Helens, May 18, 1980.

Cummans, John E.; Collier, C. R., 1980, Mudflows, floods, and sediment deposition resulting from the May 18 eruption of Mt. St. Helens, by Water Resources Division, U.S. Geological Survey [abstract]: EOS, v. 61, no. 46, p. 955.
Location: Cowlitz and Skamania Counties.
Brief description of May 18, 1980 mudflows.

Danner, Wilbert Roosevelt, 1957, A stratigraphic reconnaissance in the northwestern Cascade Mountains and San Juan Islands of Washington State: University of Washington Doctor of Philosophy thesis, 562 p.
Location: Snohomish County.
Brief mention of slide near King Lake, Snohomish County, p. 374; photograph p. 377. (Not shown on geologic map)
Abstract: Dissertation Abstracts International, v. 18, no. 1, p. 195, 1958.

Danner, Wilbert Roosevelt, 1966, Limestone resources of western Washington: Washington Division of Mines and Geology Bulletin 52, 474 p.
Location: San Juan County; Whatcom County.
Brief mentions of landslides, p. 177 and 190.

Deeter, Jerald D., 1979, Quaternary geology and stratigraphy of Kitsap County Washington: Western Washington University Master of Science thesis, 175p., 2 plates, map scale 1:24,000.
Location: Kitsap County.
Thorough discussion and description of Kitsap County slope stability, p. 149-158. Includes map entitled, "Slope stability map of Kitsap County", scale 1:24,000.

Dennis, Terence Edwin, 1938, The structure of the Horse Heaven Hill of Washington: State College of Washington Master of Science thesis, 35 p.
Location: Benton County; Yakima County.
Discussion of landslide near Prosser.

Dethier, David P.; Bethel, J., 1981, Surficial deposits along the Cowlitz River near Toledo, Lewis County, Washington: U.S. Geological Survey Open-File Report 81-1043, 10 p., 1 plate, map scale 1:62,500.
Location: Lewis County.
Geologic map includes map unit: ls Landslide deposits.

Dethier, David P.; Whetten, John T., 1980, Preliminary geologic map of the Clear Lake SW quadrangle, Skagit and Snohomish Counties, Washington: U.S. Geological Survey Open-File Report 80-825, 11 p., 2 plates, map scale 1:24,000.
Location: Skagit and Snohomish Counties.
Geologic map includes map unit: Qls Landslide

Dethier, David P.; Whetten, John T., 1981, Preliminary geologic map of the Mount Vernon 7½' quadrangle, Skagit County, Washington: U.S. Geological Survey Open-File Report 81-105, 9 p., 1 plate, map scale 1:24,000.
Location: Skagit County.
Geologic map includes map unit: Qls Landslide.

Dethier, David P.; Whetten, John T.; Carroll, P. R., 1980, Preliminary geologic map of the Clear Lake SE quadrangle, Skagit County, Washington: U.S. Geological Survey Open-File Report 80-303, 11 p., 2 plates, map scale 1:24,000.
Location: Skagit County.
Test and geologic map include map units: Qls Landslide; Qvrl Lahars.

Dodd, Jerry S.; Anderson, H. W., 1974, Tectonic stresses and rock slope stability. in Voight, Barry; Voight, Mary A., eds., 1974, Rock mechanics; the American Northwest: Pennsylvania State University, p. 262-263.
Location: Grand Coulee Dam area.
Discussion of the engineering geology, rock mechanics and slope stability in the Grand Coulee Dam area.

Dohrenwend, J. C., 1978, Probable seismic triggering of Sackung in the North Cascades [abstract]: Geological Society of America Abstracts with Programs, v. 10, no. 7, p. 390.
Location: Skagit County.
Brief description of rock-creep near the Straight Creek fault.

Douglass, P. M., 1974, Slope stability investigations at the Centralia Coal mine. in Voight, Barry; Voight, Mary A., eds., 1974, Rock mechanics; the American Northwest: Pennsylvania State University, p. 283-285.
Location: Lewis and Thurston Counties.
(Not available for examination 9/82)

Douglass, P. M., 1974, Slope stability problems at Mayfield Dam. in Voight, Barry; Voight, Mary A., eds., 1974, Rock mechanics; the American Northwest: Pennsylvania State University, p. 281-282.
Location: Lewis County.
(Not available for examination 9/82)

Eagle, J. R., 1938, Proposed method for treating ore from the mine of the Copper Mining Company Incorporated, Yakima County: University of Washington Bachelor of Science thesis, 33 p.
Location: Yakima County.
Mentions "rockslides" near mine, p. 5.

Easterbrook, Donald J., 1962, Pleistocene geology of the northern part of the Puget Lowland, Washington: University of Washington Doctor of Philosophy thesis, 160 p.
Location: Whatcom County.
Discussion of landslides, p. 148; photograph, p. 149. (No geologic map)
Abstract: Dissertation Abstracts, v. 23, no. 8, p. 2872-2872, 1963.

Easterbrook, Donald J., 1968, Part I, Pleistocene stratigraphy of Island County: Washington Department of Water Resources Water Supply Bulletin 25, p. 1-34.
Location: Island County.
Figure 5, Geologic cross section, and Figure 6, Photograph, show Landslide at Posession Point, Whidbey Island, p. 11.

Easterbrook, Donald J.; Rahm, David A. 1970, Landforms of Washington; the geologic environment: Western Washington State College, 156 .
Location: Columbia Basin
Brief descriptions of landslides and mass movement p. 145, photos, p. 143-144.

Easterbrook, Donald J., 1976, Map showing engineering characteristics of geologic materials, western Whatcom County, Washington: U. S. Geological Survey Miscellaneous Investigations Series Map I-854-D, 1 sheet, map scale 1:62,500.
Location: Whatcom County.
Include "Slope stability" as a factor in determining the engineering characteristics of various geologic materials.

Easterbrook, Donald J., 1976, Map showing slope stability in western Whatcom County, Washington: U. S. Geological Survey Miscellaneous Investigations Series Map I-854-C, 1 sheet, map scale 1:62,500.
Location: Whatcom County.
Detailed slope stability map.

Eddy, Paul A., 1966, Preliminary investigation of the geology and ground-water resources of the lower Chehalis River valley and adjacent areas, Grays Harbor County, Washington: Washington Division of Water Resources Water Supply Bulletin 30, 70 p., 2 plates, map scale 1:90,000.
Location: Grays Harbor County.
Geologic map includes map unit: Ql Landslide.

Ellersick, Donald K., 1967, An investigation of the shear strength of Palouse clay as a function of moisture content: Washington State University Master of Science in Civil Engineering thesis, 41 p.
Location: Columbia Basin
Thorough examination of the soil mechanics of the Palouse clay.

Erdman, C. E.; Bateman, A.F., Jr., 1951, Geology of dam sites in south-western Washington--Part II, Miscellaneous dam sites on the Cowlitz River above Castle Rock, and the Tilton River, Washington: U. S. Geological Survey Open-File Report, 314 p., 20 plates.
Location: Lewis County.
Description of landslide at Shut-In dam site.

Fahnestock, Robert K., 1960, Morphology and hydrology of a glacial stream--White River, Mount Rainier, Washington: U. S. Geological Survey Professional Paper 422-A, 70 p.
Location: Pierce County.
Discussion and description of Mt. Rainier mudflow deposits, p. A20-A22.
(Also submitted to Cornell University as a Doctor of Philosophy thesis.)
Abstract: Dissertation Abstracts International, v. 21, no. 6, p. 1524, 1960.

Fahnestock, Robert K., 1978, Little Tahoma Peak rockfalls and avalanches, Mount Rainier, Washington, U. S. A. in Voight, Barry, ed., 1978, Rockslides and avalanches 1, Natural phenomena: Elsevier Scientific Publishing Company Developments in Geotechnical Engineering 14A, p. 181-196.
Location: Pierce County.
Data and discussion of 1963 rockfall. (For full study, see Crandell and Fahnestock, 1965, USGS Bulletin 1221-A.)

Fahnestock, Robert K.; Savini, John, 1964, Role of mudflows in the formation of glacial and fluvioglacial land forms [abstract]: Geological Society of America Special Paper 76, p. 56.
Location: Pierce County.
Description of three mudflows which blocked the White River, 1958 - June 1961.

Fecht, K. R., 1978, Geology of Gable Mountain-Gable Butte area: Rockwell Hanford Operations Information Report RHO-BWI-LD-5, 57p., 4 plates.
Location: Benton County.
Description of landslides and talus slopes, p. 50-51. Geomorphic map shows margins of channels, bars and landslides.

Fiksdal, Allen J., 1973, Slope stability of the Longview-Kelso urban area, Cowlitz County: Washington Division of Geology and Earth Resources Open-File Report 73-2, 4 p., 2 plates, map scale 1:24,000.
Location: Cowlitz County.
Detailed slope stability map.

Fiksdal, Allen J., 1974, A landslide survey of the Stequaleho Creek watershed. in Cederholm, Carl J.; Lestelle, Lawrence C., 1974, Observations on the effects of landslide siltation on salmon and trout resources of the Clearwater River, Jefferson County, Washington, 1972-1973, final report, Part 1: University of Washington College of Fisheries Research Institute Report FRI-UW-7404, 8 p., supplemental report.
Location: Jefferson County.
Thorough report of area landslides.

Fiksdal, Allen J., 1975, Slope stability of Clark County, Washington: Washington Division of Geology and Earth Resources Open-File Report 75-10, 4 p., 1 plate, map scale 1:62,500.
Location: Clark County.
Detailed slope stability map.

Fiksdal, Allen J., comp., 1978, Geology of southern Skamania County: Washington Division of Geology and Earth Resources unpublished map, 1 sheet, scale 1:62,500.
Location: Skamania County.
Includes map units: Qls Landslides; Qtl Talus cones.

Fiksdal, Allen J., 1978, Slope stability of the Centralia-Chehalis area, Lewis County, Washington: Washington Division of Geology and Earth Resources Open-File Report 78-2, 4 p., 1 plate, scale 1:62,500.
Location: Lewis County.
Detailed slope stability map.

Fiksdal, Allen J., 1979, Geology for land use planning in part of Pierce County, Washington: Portland State University Master of Science thesis, 80 p., 7 plates.
Location: Pierce County.
Thorough discussion and description of slope stability, including landslides, debris flows, slumps, p. 26-36; of mudflow landforms, p. 72-73 and p. 83-84. Plate 3 is Slope stability map, scale 1:24,000.

Fiksdal, Allen J., Brugengo, Matthew J., 1980, Forest slope stability project, Phase I: Washington Department of Ecology Technical Report 80-2a, 18 p., 7 plates.
Location: Western Washington.
Phase I focuses on a regional evaluation of slope stability in the non-federal forest lands. Mass wasting features were identified from air photos and plotted on 1:250,000 scale maps.

Fiksdal, Allen J., Brunengo, Matthew J., 1981, Forest slope stability project, Phase II: Washington Department of Ecology Technical Report 81-14, volume 1, Text, 61 p.; volume 2, Orthophoto maps, 72 p., map scale 1:24,000.
Location: Nooksack River basin (Whatcom County); Green River basin (King County); Toutle River basin (Cowlitz County); Grays River basin (Pacific and Wahkiakum Counties); Clearwater River basin (Jefferson County).
Landforms keyed to mass wasting features and potential were mapped in five representative river basins in western Washington. The landforms relate to the geology and erosional processes and are rated for slope instability potential.

Findley, Rowe, 1981, Mount St. Helens; the mountain that was--And will be: National Geographic, v. 160, no. 6, p. 710-733.
Location: Skamania and Cowlitz County.
Popular description of the May 18, 1980 eruption of Mount St. Helens, and the consequent mudflows. Excellent photos.

Fink, Jonathan H.; Freeley, R., 1980, Mudflow studies on Mount St. Helens [abstract]. in Holt, H. E., and others, comps., 1980, Reports of Planetary Geology Program, 1980: U. S. National Atmospheric and Space Administration Technical Memorandum 82385, p. 339-341.
Location: Skamania County.

Fink, Jonathan H.; Malin, M., 1980, Rheological properties of mudflows associated with recent eruptions of Mount St. Helens [abstract]: EOS, v. 61, no. 46, p. 1138.
Location: Skamania County.
Brief description of yield strengths, plastic viscosities, mean flow velocities and volumetric flow rates of Mount St. Helens mudflows of May 1980 and post-May 1980.

Fink, Jonathan H.; Malin, Michael C.; D'Alli, Richard E.; Greeley, Ronald, 1981, Rheological properties of mudflows associated with the Spring, 1980 eruptions of Mount St. Helens volcano, Washington: Geophysical Research Letters, v. 8, no. 1, p. 43-46.
Location: Skamania County.
Thorough description and discussion of mudflows caused by the May 18, 1980 eruption of Mount St. Helens.

Fischer, Joseph Fred, 1970, The geology of the White River-Carbon Ridge area, Cedar Lake quadrangle, Cascade Mountains, Washington: University of California at Santa Barbara Doctor of Philosophy thesis, 200 p., 2 plates.
Location: Pierce County.
Brief discussion of mudflows and landslides, p. 186. Geologic map includes map units: Qal Alluvium, mudflow debris; Qls Landslide debris.
Abstract: Dissertation Abstracts International, v. 32, no. 8, p. 4669B-4670B, 1972.

Fisher, R. V., 1957, Stratigraphy of the Puget Group and Keechelus Group in the Elbe-Packwood area of southwestern Washington: University of Washington Doctor of Philosophy thesis, 157 p.
Location: Pierce and Lewis Counties.
Thorough lithologic description of laharic breccias, p. 75-83.

Fiske, Richard Sewell, 1960, Stratigraphy and structure of lower and middle Tertiary rocks, Mount Rainier National Park, Washington: Johns Hopkins University Doctor of Philosophy thesis, 163 p.
Location: Pierce County.
Description and discussion of mudflows, p. 9; photo of mudflow debris, p. 25-26, p. 46-47. (Note: See his U. S. Geological Survey Professional Paper 444 and Miscellaneous Investigations Series Map I-432 for geologic maps.)

Fiske, Richard S.; Hopson, C. A.; Waters, Aaron C., 1963, Geology of Mount Rainier National Park, Washington: U. S. Geological Survey Professional Paper 444, 93 p., __ plates.
Location: Pierce County.
Description and discussion of rockfalls, mudflows, and slurry floods.
Geologic map includes map units: Qs Surficial deposits, including mudflows; Qls Landslides.

Fiske, Richard S.; Hopson, C. A.; Waters, Aaron C., 1964, Geologic map and section of Mount Rainier National Park, Washington: U. S. Geological Survey Miscellaneous Investigations Map I-432, 1 sheet, map scale 1:62,500.
Location: Pierce County.
Geologic map includes map unit: Qls Landslides.

Fitch, Henry M., 1965-67, WPA slide control drainage projects, 1935-1941: Seattle City Engineers Department, 3 vol.
Location: King County.
Covers 29 slides. Contents: Vol. 1, Location and general description of slide control drains constructed by WPA; Vol. 2, Test holes; Vol. 3, Reports.

Fleshman, B. R., 1980, Uranium resource evaluation, Spokane quadrangle, Washington and Idaho: U. S. Department of Energy PGJ 009, 6 sheets microfiche.
Location: Stevens, Lincoln, Spokane, Adams and Whitman Counties.
Geologic map includes map unit: Qls Landslide deposits.

Flint, Richard F.; Irwin, W. H., 1939, Glacial geology of Grand Coulee Dam, Washington: Geological Society of America Bulletin, V. 50, p. 661-680.
Location: Grand Coulee Dam area (corner of Lincoln, Grant, Douglas, Okanogan and Ferry Counties).
General description of landslides, p. 668. Plate 1, "Cross section of the fill in Columbia River canyon" includes major landslides.

Foley, Lucy L., 1976, Slack water sediments in the Alpowa Creek drainage, Washington: Washington State University Master of Arts thesis, 55 p., 1 plate, map scale 1:24,000.
Location: Asotin and Garfield Counties.
Discussion and description of colluvium, p. 32. Geologic map includes map unit: Q_{CG} Colluvium gravel.

Ford, Arthur B., 1959, Geology and petrology of the Glacier Peak quadrangle, northern Cascades, Washington: University of Washington Doctor of Philosophy thesis, 337 p., 3 plates.
Location: Snohomish County.
Description and discussion of mudflows, p. 282; photos of slide area along White Chuck River, p. 286-287. (Not shown on geologic map.)
Abstract: Dissertation Abstracts International, v. 20, no. 3, p. 991, 1959.

Foster, Robert J., 1955, A study of the Guye Formation, Snoqualmie Pass, King and Kittitas Counties, Washington: University of Washington Master of Science thesis, 57 p., 1 plate, map scale 1:39,600.
Location: King and Kittitas Counties.
Mention of 1953 landslide, p. 14. (Not included on geologic map.)

Foster, Robert J., 1957, the Tertiary geology of a portion of the central Cascade Mountains, Washington: University of Washington Doctor of Philosophy thesis, 186 p., 2 plates.
Location: King and Kittitas Counties.
Mention of landslide along the face of Table Mountain and Lookout Mountain, p. 93. Geologic map includes map unit: Landslides.

Foster, Robert J., 1960, Tertiary geology of a portion of the central Cascade Mountains, Washington: Geological Society of America Bulletin, v. 71, no. 2, p. 99-126.
Location: Kittitas County.
Geologic map includes map unit: Ql Landslides.

Fox, Kenneth F., Jr., 1970, Geologic map of the Oroville quadrangle, Okanogan County, Washington: U. S. Geological Survey Open-File Report 70-128, 3 sheets, map scale 1:62,500.
Location: Okanogan County.
Includes map unit: Qt Talus.

Fox, Kenneth F., Jr., 1978, Geologic map of the Mount Bonaparte quadrangle, Okanogan County, Washington: U. S. Geological Survey Open-File Report 78-732, 2 sheets, map scale 1:48,000.
Location: Okanogan County.
Includes map unit: Qt Talus.

Fox, Kenneth F., Jr., 1981, Reconnaissance geologic map of the Churchill Mountain quadrangle, Stevens County, Washington: U. S. Geological Survey Open-File Report 81-169, 3 sheets, scale 1:24,000.
Location: Stevens County.
Includes map unit: Qt Talus.

Fox, Kenneth F., Jr., Rinehart, C. Dean, 1968, Geologic map of the Loomis quadrangle, Okanogan County, Washington: U. S. Geological Survey Open-File Report 68-105, 1 sheet, scale 1:48,000.
Location: Okanogan County.
Includes map unit: Qt Talus.

Fox, Kenneth F., Jr., Rinehart, C. Dean, 1972, Disrtibution of copper and other metals in gully sediments of part of Okanogan County, Washington: Washington Division of Mines and Geology Bulletin 65, 38 p., 4 plates.
Location: Okanogan County.
Geologic map includes unit: Qt Talus deposits.

Frank, David, 1976, Debris avalanches at Mount Baker volcano, Washington. in Williams, Richard S., Jr.; Carter, William D., eds., 1976, ERTS-1, A new window on our planet: U. S. Geological Survey Professional Paper 929, p. 120-122.
Location: Whatcom County.
Brief comparison of the post-glacial lahars and the current snow avalanches of Mount Baker, as shown by ERTS photography.

Frank, David,; Post, Austin; Friedman, J. D., 1975, Recurrent geothermally induced debris avalanches on Boulder Glacier, Mount Baker, Washington: U. S. Geological Survey Journal of Research, vol. 3, no. 1, p. 77-87.
Location: Whatcom County.
Discussion of Mount Baker debris flows.

Frisken, Jim Gilbert, 1965, Pleistocene glaciation of the Brinnon area, east-central Olympic Peninsula, Washington: University of Washington Master of Science thesis, 75 p., 3 plates.
Location: Jefferson County.
Discusses "rock slides vs. end moraines" in the Hamma Hamma Valley, Duckabush Valley, and Dosewallips Valley, p. 62-65. Geologic maps include map units: Sliderock; Undifferentiated end-moraine-like deposits.

Fritz, W. J., 1980, Stumps transported and deposited upright by Mount St. Helens mudflows: Geology, v. 8, no. 12, p. 586-588.
Location: Cowlitz County.
Description and discussion on effects of May 18, 1980 mudflows.

Fuller, Richard Eugene, 1925, The geology of the northeastern part of the Cedar Lake quadrangle with special reference to the de-roofed Snoqualmie batholith: University of Washington Master of Science thesis, 96 p., 4 plates.
Location: King County.
Description and discussion of graodiorite slides, p. 11, photos, p. 10 and 12. (Not shown on geologic map.)

Garber, L. W., 1965, Relationship of soils to earthflows in the Palouse: Journal of Soil and Water Conservation, v. 20, no. 1, p. 21-23.
Location: Palouse region.
Discussion of the causes of earthflow in the Palouse region.

Gayer, Martin J., 1976, Slope stability map of northeastern Jefferson County, Washington: Washington Division of Geology and Earth Resources Open-File Report 76-22, 1 sheet, map scale 1:24,000.
Location: Jefferson County.
Detailed slope stability map.

Gayer, Martin J., 1977, Quaternary and environmental geology of northeastern Jefferson County, Washington: North Carolina State University Master of Science thesis, 140 p.
Location: Jefferson County.
Thorough discussion of areal slope stability, p. 74-85, with photos.
(Detailed slope stability map ony available as DGER OF 76-22.)

Geoscience Research Consultants, 1978, Geology of the southwestern Pasco Basin: Rockwell Hanford Operations RHO-BWI-C-25, 217 p., in folder with 43 plates.
Location: Benton, Yakima and Franklin Counties.
Brief discussion of "mass-gravity" features associated with bedrock folding, p. 126-127. Geologic maps include map units: Qld Landslide debris; Qt Talus; Qco Colluvium.

Gilchrist, Grancis G., 1954, GSOC field trip to Mount St. Helens: Geological Society of the Oregon Country Geologic News Letter, V. 20, no. 9, p. 78-80.
Location: Skamania County.
Mentions mudflow or debris flow on North face of Mount St. Helens that formed Spirit Lake.

Glicken, H.; Janda, R. J.; Voight, B., 1980, Catastrophic landslide/debris avalanche of May 18, 1980, Mount St. Helens volcano [abstract]: EOS, v. 61, no. 46, p. 1135.
Location: Cowlitz and Skamania Counties.
Description of the landslide/debris avalanche deposit in the North Fork of the Toutle River Valley, caused by the May 18, 1980 eruption of Mt. St. Helens.

Goff, F. E., 1981, Preliminary geology of eastern Umtanum Ridge, south-central Washington: Rockwell Hanford Operations RHO-BWI-C-21, 100 p., 3 plates.
Location: Benton, Yakima, and Grant Counties.
General discussion of landslides, and detailed descriptions of the McCoy Canyon slide complex, and the Juniper Springs slide complex, p. 72-77.
Geologic map includes map units: Qco Colluvium and talus; Qld Landslides.

Gordon, G., 1937, Freezing arch across toe of East Forebay slide, Grand Coulee Dam: U.S. Bureau of Reclamation, Reclamation Era, v. 27, no. 1, p. 12-16.
Location: Okanogan County.
Thorough description and discussion of engineering to correct slide at Grand Coulee Dam site.

Gower, Howard D., 1960, Geology of the Pysht quadrangle, Washington: U.S. Geological Survey Geologic Quadrangle Map GQ-129, 1 sheet, map scale 1:62,500.
Location: Clallam County.
Include map unit: Qls Landslide debris.

Gower, Howard D.; Pease, M. H., Jr., 1965, Geology of the Montesano quadrangle, Washington: U.S. Geological Survey Geologic Quadrangle Map GQ-374, 1 sheet, map scale 1:62,500.
Location: Grays Harbor County.
Includes map unit: Ql Landslide debris.

Gower, Howard D.; Wanek, A. A., 1963, Preliminary geologic map of the Cumberland quadrangle, King County, Washington: Washington Division of Mines and Geology Geologic Map GM-2, 1 sheet, map scale 1:24,000.
Location: King County.
Includes map unit: Ql Landslide debris.

Grater, Russell, K., 1948, The flood that swallowed a glacier: Natural History, v. 57, no. 6, p. 276-280.
Location: Pierce County.
Popular description of the 1947 Kautz Creek mudflow.

Gresens, Randall L., 1975, Geologic mapping of the Wenatchee area: Washington Division of Geology and Earth Resources Open-File Report 75-6, 2 sheets, map scale 1:1,000.
Location: Chelan County.
Includes map unit: Qrs Quaternary-Recent landslides.

Gresens, Randall L., 1979, Surficial geologic map of the Wenatchee quadrange Washington: Washington Division of Geology and Earth Resources Open-File, Report 79-14, 1 sheet, map scale 1:250,000.
Location: Chelan, Douglas and Kittitas Counties.
Includes map units: Qc Colluvium; Qls Landslide deposits.

Griggs, A. B., 1966, Reconnaissance geologic map of the west half of the Spokane quadrange, Washington and Idaho: U.S. Geological Survey Miscellaneous Investigations Series Map I-464, 1 sheet, map scale 1:125,000.
Location: Spokane, Stevens, and Lincoln Counties.
Includes map unit: Qls Landslide debris.

Griggs, A. B., 1973, Geologic map of the Spokane quadrangle, Washington, Idaho, and Montana: U.S. Geological Survey Miscellaneous Investigations Series Map I-768, 1 sheet, map scale 1:250,000.
Location: Spokane, Stevens, and Lincoln Counties.
Includes map unit: Qls Landslide deposits.

Grolier, Maurice J., 1965, Geology of part of the Big Bend area in the Columbia Plateau, Washington: Johns Hopkins University Doctor of Philosophy thesis, 265 p.
Location: Adams, Franklin, and Grant Counties.
Description and discussion of colluvium, p. 158-160; talus and landslide debris, p. 183-184; landforms produced by weathering and mass-wasting, p. 243-246. (Geologic map is published as USGS map I-589.)
Abstract: Dissertation Abstracts, v. 26, no. 4, p. 2133, 1965.

Grolier, Maurice J.; Bingham, J. W., 1971, Geologic map and sections of parts of Grant, Adams, and Franklin Counties, Washington: U.S. Geological Survey Miscellaneous Investigations Map I-589, 6 sheets, map scale 1:62,500.
Location: Adams, Franklin, and Grant Counties.
Includes map units: Qc Colluvium; Qld Landslide debris.

Grolier, Maurice J.; Bingham, J. W., 1978, Geology of parts of Grant, Adams, and Franklin Counties, east-central Washington: Washington Division of Geology and Earth Resources Bulletin 71, 91 p.
Location: Adams, Franklin, and Grant Counties.
Description of landslides, p. 60.

Gryta, Jeffrey J., 1975, Landslides along the western shore of Hood Canal, northern Mason County, Washington: North Carolina State University Master of Science thesis, 120 p., 3 plates.
Location: Mason County.
Thorough study of Hood Canal landslide processes. Plate 2 is "Slope stability map, western shore of Hood Canal".

Halliday, William R., 1980, Post eruptive mudflow impact on the Mount St. Helens caves, Washington: Washington Speleological Survey Bulletin 14, Western Speleological Survey Series 61, 4 p.
Location: Skamania County.
Thorough description of the impact of the 1980 mudflows on caves in the Mount St. Helens area.

Hammatt, Hallett H., 1976, Late Quaternary stratigraphy and archaeological chronology in the lower Granite Reservoir area, lower Snake River, Washington: Washington State University Doctor of Philosophy thesis, 272 p.
Location: Whitman and Garfield Counties.
Description of talus slopes, p. 42. (Geologic map is published as Geological Society of America Map MC-18, but does not show landslides.)

Hammond, Paul E., 1963, Structure and stratigraphy of the Keechelus volcanic group and associated Tertiary rocks in the west-central Cascade Range, Washington: University of Washington Doctor of Philosophy thesis, 294, p., 2 plates.
Location: King and Kittitas Counties.
Description of landslides, p. 184-185. Geologic map includes map unit: Qls Landslide.
Abstract: Dissertation Abstracts International, v. 24, no. 7, p. 2869, 1964.

Hammond, Paul E., 1975, Preliminary geologic map and cross sections with emphasis on Quaternary volcanic rocks, southern Cascade Mountains, Washington: Washington Division of Geology and Earth Resources Open-File Report 75-13, 1 sheet, map scale 1:125,000.
Location: Lewis, Skamania, Yakima, and Klickitat Counties.
Includes map unit: Qls Landslide.

Hammond, Paul E., 1980, Reconnaissance geologic map and cross sections of southern Washington Cascade Range, latitude 45°30' - 47°15' N., longitude 120°45' - 122°22.5' W.: Portland State University Department of Earth Sciences, 31 p., 2 sheets, map scale 1:125,000.
Location: The South Cascades of Washington.
Geologic map includes map units: Qls Landslide; Qta Talus; Qel Electron mudflow; Qlsb Bonneville landslide; Qtl Trout Lake mudflow; Qlo Osceoloa mudflow; Qql Greenwater lahar; Qpp Paradise lahar; Qhm Debris flow (mud flows) of Mount Hood.

Hanson, Kathryn L., 1976, Slope stability map of the Uncas-Port Ludlow area, Jefferson County, Washington: Washington Division of Geology and Earth Resources Open-File Report 76-18, 1 sheet, map scale 1:24,000.
Location: Jefferson County.
Detailed slope stability map.

Hanson, Kathryn L., 1977, The Quaternary and environmental geology of the Uncas-Port Ludlow area, Jefferson County, Washington: University of Oregon Master of Science thesis, 2 vol, 5 plates.
Location: Jefferson County.
Thorough discussion and description of causes and locations of slumps, earth flows, debris flows, debris falls and rock falls in study area. Plate 2, "Slope stability map of the Uncas-Port Ludlow area, Jefferson County, Washington", scale 1:24,000, also issued as DGER OF 76-18.

Hanson, Larry G., 1970, The origin and development of Moses Coulee and other scabland features of the Waterville Plateau, Washington: University of Washington Doctor of Philosophy thesis, 139 p.
Location: Grant and Douglas Counties.
Mention of landslide masses and taluses, p. 96. Geologic maps (Figures 8 and 17) includes map unit: Landslide debris.

Hanson, Larry G., 1979, Surficial geologic map of the Okanogan quadrangle, Washington: Washington Division of Geology and Earth Resources Open-File Report 79-7, 1 sheet, map scale 1:250,000.
Location: Okanogan and Douglas Counties.
Includes map units: Qc Colluvium; Qls Landslide deposits.

Hanson, Larry G.; Kiver, Eugene P.; Rigby, James G.; Stradling, Dale F., 1979, Surficial geologic map of the Ritzville quadrangle, Washington: Washington Division of Geology and Earth Resources Open-File Report 79-10, 1 sheet, map scale 1:250,000.
Location: Douglas, Ferry, Lincoln, Stevens, Grant, and Adams Counties.
Includes map units: Qc Colluvium; Qls Landslide deposits.

Harle, David S., 1974, Geology of the Babyshoe Ridge area, southern Cascades, Washington: Oregon State University Master of Science thesis, 71 p., 1 plate, map scale 1:24,000.
Location: Skamania County.
Photos and sketches of mudflows and landslides, p. 20, 21, 25; of talus slopes, p. 27-28. Geologic map includes map units: Qls Landslide deposits; Tmf Mudflow deposits.

Hartman, Donald A., 1973, Geology and low-grade metamorphism of the Greenwater River area, central Cascade Range, Washington: University of Washington Doctor of Philosophy thesis, 99 p., 2 plates.
Abstract: Dissertation Abstracts International, v. 35, no. 1, p. 324B, 1974.
Location: Pierce County.
Brief description of mudflows and landslides, p. 37. Geologic map includes map unit: Qls Landslides.

Hays, W. W., ed., 1981, Facing geologic and hydrologic hazards; earth-science considerations: U.S. Geological Survey Professional Paper 1240-B, 109 p.
Location: Franklin County.
Section on landslides includes photo of irrigation-caused landslide along the Columbia River (p. B54), and mention of landslide losses along the shore of Roosevelt Lake ($20 million 1934-1952) (p. B56). Back cover shows sequence of photos of May 18, 1980 Mt. St. Helens landslide.

Hays, William H.; Schuster, Robert L.; Neumann, Henry D.; Harrod, Gerald W., 1982, Active landslides on the White Bluffs of the Columbia River, southcentral Washington [abstract]: Geological Society of America Abstracts with Programs, v. 14, no. 4, p. 171-172.
Location: Franklin County.
Brief discussion and description of irrigation-caused landslides in the White Bluffs area.

Heller, Paul L., 1978, Pleistocene geology and related landslides in the lower Skagit and Baker Valleys, north Cascades, Washington: Western Washington University Master of Science thesis, 154 p., 5 plates.
Location: Skagit County.
Describes type and distribution of slope failures (debris slide, debris flow, and slump/flow) in unconsolidated glacial sediments. (Geologic map published as USGS OF 79-964; Slope stability map published as USGS OF 79-963.)

Heller, Paul L., 1979, Map showing landslides and relative slope stability of Quaternary deposits of the lower Skagit and Baker valleys, north Cascades, Washington: U.S. Geological Survey Open-File Report 79-963, 30 p., 2 sheets, map scale 1:62,500.
Location: Skagit County.
Describes type and distribution of slope failures (debris slide, debris flow, and slump/flow) in unconsolidated Quaternary deposits.

Heller, Paul L., 1979, Map showing surficial geology of parts of the lower Skagit and Baker Valleys, north Cascades, Washington: U.S. Geological Survey Open-File Report 79-964, 16 p., 1 sheet, map scale 1:62,500.
Location: Skagit County.
Includes map unit: Qls Landslide deposit.

Heller, Paul L., 1980, Types and habitats of small landslides in Quaternary deposits of the lower Skagit River drainage, north Cascade Range, Washington [abstract]: Geological Society of America Abstracts with Programs, v. 12, no. 3, p. 111.
Location: Skagit County.

Heller, Paul L., 1981, Small landslide types and controls in glacial deposits; Lower Skagit River drainage, Northern Cascade Range, Washington: Environmental Geology, v. 3, no. 4, p. 221-228.
Location: Skagit County.
Thorough discussion and description of landslides and slope stability in the lower Skagit River drainage.

High Life Helicopters, Inc., 1981, Airborne gamma-ray spectrometer and magnetometer survey; Vancouver, The Dalles, Pendleton, Walla Walla, Yakima, Hoquiam quadrangles, Washington-Oregon; final report: U.S. Department of Energy EJBX 291(81), 7 vol.
Location: souther Washington.
Geologic maps include map units: Qls Landslide debris; Qfc Fanglomerate, talus and colluvium.

Holmgren, Dennis Arthur, 1969, Columbia River basalt patterns from central Washington to northern Oregon: University of Washington Doctor of Philosophy thesis, 56 p., 2 plates.
Location: Yakima and Klickitat Counties.
Geologic map includes map units: Qls Landslide; Qta Talus.
Abstracts: Dissertation Abstracts International, Section B, v. 31, no. 2, p. 759B, 1970. Geological Society of America Abstracts with Programs, 1969, pt. 3, p. 26, 1969.

Hopkins, Kenneth D., 1976, Geology of the south and east slopes of Mount Adams volcano, Cascade Range, Washington: University of Washington Doctor of Philosophy thesis, 143 p., 1 plate, map scale 1:63,360.
Location: Skamania and Yakima Counties.
Description and discussion of Trout Lake mudflow, p. 128-134. (Not shown on geologic map.)
Abstract: Dissertation Abstracts International, v. 37, no. 5, p. 2124B, 1976.

Hopson, C. A.; Waters, A. C.; Bender, V. R.; Rubin, M., 1962, The latest eruptions from Mount Rainier volcano: Journal of Geology, v. 70, no. 6, p. 635-647.
Location: Pierce County.
Discusses Kautz Creek "Flood" (debris flow).

Howell, Paul W., 1962, Trip log; Vernonia, South Park and Sunset Steam R.R. "Sunset Tours" railway excursion through Columbia River Gorge and "Grand Canyon" of the Deschutes River via SP & S from 10th and Hoyt, Portland, Oregon to Wishram, Wash. thence Oregon trunk to Madras, Oregon, Sunday May 20 and 27, 1962: [The Author], 15 p.
Location: Columbia River Gorge.
Discussion of the Bonneville and Wind River slide areas, p. 4, 5.

Howell, Paul W., 1969, The White Pass trip: Geological Society of the Oregon Country Geologic News Letter, v. 35, no. 11, p. 96-98.
Location: Yakima County.
Mentions Divide Ridge and Bethel Ridge slide areas.

Howlett, Bruce; Brodsky, Harold, 1964, Landslide hazardous areas in the central Puget Sound region; Project Open Space: (Seattle) Puget Sound Governmental Conference Project Open Space, vol. II, Report 10, 27 p.
Location: Puget Lowland.
Includes Table 1: available County engineers' lists of landslide occurrence; summaries of newspaper accounts for slides in the Seattle area, 1956-1963.

Hughes, George E., 1939, Geology of a barite prospect on the Hamma Hamma River and treatment of the ore: University of Washington Bachelor of Science thesis, 51 p.
Location: Mason County.
Brief mention of rock slides in the Hamma Hamma River area.

Huntting, Marshall T., 1960, Geologic field trip in Thurston and Lewis Counties, Washington: Washington Division of Mines and Geology unpublished report, 3 p.
Location: Thurston and Lewis Counties.
Brief mention of landslides, located just north of Bucoda, p. 3.

Huntting, Marshall T., 1960, Geologic field trip in Thurston, Grays Harbor, and Lewis Counties, Washington: Washington Division of Mines and Geology unpublished report, 7 p.
Location: Thurston, Grays Harbor, and Lewis Counties.
Brief mention of landslide, located just north of Bucoda, p. 5.

Huntting, Marshall T.; Bennett, W. A. G.; Livingston, Vaughn E., Jr.; Moen, Wayne S., 1961, Geologic map of Washington: Washington Division of Mines and Geology Geologic Map, 2 sheets, map scale 1:500,000.
Location: Washington State.
Includes map unit: Qs Landslide and mudflow deposits.

Hyde, Jack Herbert, 1973, Late Quaternary volcanic stratigraphy, south flank of Mount St. Helens, Washington: University of Washington Doctor of Philosophy thesis, 114 p., 1 plate.
Location: Skamania County.
Thorough discussion of potential (1973) Mount St. Helens flows: pyroclastic flows, lahars, colluvium, mudflows, and landslides, p. 13-28, 36-79, 84-89. (published as U.S. Geological Survey Bulletin 1383-C.)
Abstract: Dissertation Abstracts International, v. 33, no. 12, p. 1, p. 5915B-5916B.

International Exploration, 1980, Geology of the Pullman quadrange: U.S. Department of Energy, 1 sheet, map scale 1:250,000.
Location: Whitman, Columbia, Garfield and Asotin Counties.
Includes map units: Qc Colluvium; Qls Landslide deposits.

Irwin, William, H., 1938, Geology of the rock foundation of Grand Coulee Dam, Washington: Geological Society of America Bulletin, vol. 49, no. 11, p. 1627-1650.
Location: Okanogan and Grant Counties.
Discussion and description of area landslides and consequent engineering geology. (Note: Also submitted as a Doctor of Philosophy thesis at Columbia University.)

Jacobsen, Edmund E., 1980, Net shore drift of Whatcom County, Washington: Western Washington University Master of Science thesis, 76 p., 1 plate.
Location: Whatcom County.
Describes eroding bluffs as a factor in net shore drift.

Jenkins, O. P., 1923, Geological investigation of the coal fields of western Whatcom County, Washington: Washington Division of Geology Bulletin 28, 135 p., 2 plates.
Location: Whatcom County.
Discussion of slope failure at Lake Whatcom p. 100-101.

Jenkins, Olaf P., 1924, Unconformity between the Ringold and Ellensburg Formations, Washington: University of California Publications in Geological Sciences, vol. 15, no. 2, p. 45-47.
Location: Franklin County.
Brief mention of the landslides at White Bluffs, p. 47.

Jenne, David A., 1978, Structural geology and metamorphic petrology of the Gold Mountain area, Snohomish County, Washington: Oregon State University Master of Science thesis, 177 p., 2 plates.
Location: Snohomish County.
Brief mention of landslides, p. 137. Geologic map includes map unit: Qls Landslide debris.

Jones, Fred O., 1949, Geologic conditions at the Gifford-Inchelium ferry landings, Stevens and Ferry Counties, Washington: U.S. Geological Survey Open-File Report, 26 p., 1 plate.
Location: Stevens and Ferry Counties.
Overview of landslide studies along Lake Roosevelt, p. 4-5; photos. (Note: Published as part of USGS Professional Paper 367.)

Jones, Fred O., 1954, Landslide conditions along the Ferry County highway paralleling Lake Roosevelt from Kettle Falls to the mouth of the Spokane River, Washington: U.S. Geological Survey Open-File Report 54-136, 35 p., 5 plates.
Location: Ferry County.
Early study (1954) of reservoir landslides. Area chosen for study because of the magnitude of the landslides and the (then) unknown but significant influence of a rising and fluctuating water table. (Note: Published as part of his USGS Professional Paper 367.)

Jones, Fred O., 1954, Landslide investigations along the Columbia Valley in northeastern Washington: Science, v. 119, no. 3093, p. 475.
Location: Columbia River Basin.
Discusses current (1954) studies of slope stability along the Columbia Valley.

Jones, Fred O., 1959, Preliminary geologic report, Trout Lake dam site and general basin area; White Salmon River Project: Klickitat County Public Utitlity District no. 1, 55 p.
Location: Klickitat County.
Discussion of Trout Lake mudflow, p. 7; photos, p. 12 and 13; brief mentions of Trout Lake mudflow throughout.

Jones, Fred O., 1960, Engineering planning report, Volume II, Geology and foundation explorations; White Salmon River Project: Klickitat County Public Utility District no. 1, 214 p.
Location: Klickitat County.
Description and discussion of Trout Lake mudflow, p. 9-10; photos, p. 14 and 15; discussion of mudflow materials for construction, p. 29-30.

Jones, Fred O.; Deacon, R. J., 1966, Geology and tectonic history of the Hanford area and its relations to the geology and tectonic history of the State of Washington and the active seismic zones of western Washington and western Montana: Douglas United Nuclear, 44 p.
Location: Pasco Basin area.
Focuses on the Hanford Reservation in the Pasco Basin, with state-wide overviews. Discussion of landslides, p. 3. Structural geologic map (Plate 4) notes old landslides.

Jones, Fred O.; Embody, D. R.; Peterson, W. I., 1961, Landslides along the Columbia River Valley, northeastern Washington: U.S. Geological Survey Professional Paper 367, 98 p.
Location: Upper Columbia River valley, northeastern Washington.
Thorough description and interpretation of landslide areas, with statistical analysis. Geologic maps show details of landslide areas. Includes a section on seismic surveys, by Robert M. Hazelwood.

Kardos, L. T.; Vlasoff, P. I.; Twiss, S. N., 1943, Factors contributing to landslides in the Palouse region: Soil Science Society of America Proceedings, v. 8, p. 437-440.
Location: Palouse region.
Description and discussion of the causes of small landslides on the steep north-facing slopes of the Palouse Topography.

Kelly, W. L., 1969, Instrumentation methods and results for the John Day Dam relocation: Engineering Geology and Soils Engineering Symposium, 7th Annual, Moscow, Idaho, Proc., p. 144-148.
Location: Klickitat County.
Discussion of methods used to contain landslides on roadways along the Columbia River.

Keuler, Ralph, 1979, Coastal zone processes and geomorphology of Skagit County, Washington: Western Washington University Master of Science thesis, 127 p.
Location: Skagit County.
Thorough discussion and description of coastal slope stability, p. 93-108.
Maps include map unit: Major landslide zones.

Kienle, C. F., Jr.; Bentley, R. D.; Anderson, J. L., 1977, Geologic reconnaissance of the Cle Elum-Wallula lineament and related structures: Shannon and Wilson, Inc., 75 p.
Location: Columbia Basin.
Geologic maps include map unit: Qls Landslide deposits.

King County Department of Community and Environmental Development, 1975, Vashon-Maury Island physical characteristics and shoreline inventory: King County Department of Community and Environmental Development, 63 p.
Location: King County.
Discussion of landslides, p. 22-23. "Geologic hazards" map, p. 27, shows landslide potential. Geologic map, p. 21, includes map unit: Qm Mass wasting-landslide.

Kiver, Eugene P.; Rigby, James G.; Stradling, Dale F., 1979, Surficial geologic map of the Spokane quadrangle, Washington: Washington Division of Geology and Earth Resources Open-File Report 79-11, 1 sheet, map scale 1:250,000.
Location: Spokane, Stevens, Lincoln, Whitman and Adams Counties.
Includes map units: Qc Colluvium; Qls Landslide deposits.

Klock, G. O., and Helvey, J. D., 1976, Debris flows following wildfire in north central Washington: Federal Inter-Agency Sediment Conference, Proceedings, No. 3, p. 1.91-1.98.
Location: North central Washington.

Knoll, Kenneth M., 1967, Surficial geology of Tolt River area, Washington: University of Washington Master of Science thesis, 91 p., 1 plate.
Location: King County.
Discussion of colluvium, talus, and landslides, p. 57-59. Figure 3 includes map unit: Landslides.

Kremer, Dale E., 1959, The geology of the Preston-Mt. Si area: University of Washington Master of Science thesis, 103 p., 1 plate.
Location: King County.
Discusses slump block theory of area landslides, p. 14. (Not shown on geologic map.)

Krohn, James P.; Slosson James E., 1976, Landslide potential in the United States: California Geology, v. 29, no. 10, p. 224-231.
Location: statewide.
"Interpretive Landslide Potential Map", p. 228-229, includes Washington.

Lamey, C. A., 1950, The Blewett iron nickel deposits, Chelan County, Washington: U.S. Geological Survey Bulletin 969-D, p. 87-103., 1 plate.
Location: Chelan County.
Mentions landslides, p. 93. Geologic map includes map unit: Talus.

Lamey, C. A.; Holz, P. E., 1952, The Cle Elum River nickeliferous iron deposits, Kittitas County, Washington: U.S. Geological Survey Bulletin 978-B, p. 27-67.
Location: Kittitas County.
Brief mention of talus deposits, p. 40. Geologic map includes map unit: Qt Talus.

Laravie, Joseph A., 1976, Geologic field studies along the eastern border of the Chiwaukum graben, central Washington: University of Washington Master of Science thesis, 56 p., 1 plate.
Location: Chelan County.
Discussion of landslide hazard, p. 46. Geologic maps include map unit: Qls Landslide deposits.

Lawrence, D. B., 1937, Drowned forests of the Columbia River Gorge: Geological Society of the Oregon Country Geologic Newsletter, v. 3, no. 8, p. 78-83.
Location: Skamania County.
Discussion of the Indian legends regarding the submerged forest of the Bonneville slide area.

Lawrence, D. B.; Lawrence, E. G., 1958, Bridge of the Gods legend, its origin, history and dating (Washington): Mazama, vol. 40, no. 13, p. 33-41.
Location: Skamania County.
Discussion of the Indian legends regarding the submerged forest of the Bonneville slide area.

Lawrence, D. B.; Lawrence, E. G., 1960, Bridge of the Gods legend, its origin, history and dating [abridged]: Geological Society of the Oregon Country Geologic Newsletter, v. 26, no. 2, p. 11-14.
Location: Skamania County.
Discussion of the Indian legends regarding the submerged forest of the Bonneville slide area.

Leggett, R. F., 1939, Geology and engineering: McGraw-Hill, 650 p.
Location: Grand Coulee Dam area; Cedar River area; Bonneville area.
Discussion and description of engineering aspects of landslides at Grand Coulee Dam (p. 232-234); Cedar River (p. 358-359); Bonneville Dam (p. 362-363).

Lehre, Andre; Dunn, Thomas; Fairchild, Lee; Collins, Brian, 1982, Erosion of sediments released by the 1980 eruptions of Mt. St. Helens: EOS, v. 62, no. 8, p. 80.
Location: Skamania County.
Brief description of deposition of avalanche deposits, mudflow deposits, and pyroclastic deposits from the 1980 eruptions of Mount St. Helens, and their landslide potential.

Liang, T.; Belcher, D. J., 1958, Airphoto interpretation. in Eckel, E. B., ed., 1958, Landslides and engineering practice: National Academy of Sciences-National Research Council Pub. 544 (Highway Research Board Special Report 29), p. 69-92.
Location: Kittitas County.
Stereophotos of slides along Cle Elum River (S.E. of Cle Elum) p. 88.

Lillie, J. T.; Tallman, A. M.; Caggiano, J. A., 1978, Preliminary geologic map of the late Cenozoic sediments of the western half of the Pasco Basin: Rockwell Hanford Operations Information Report RHO-BWI-LD-8, 16., 13 plates.
Location: Grant, Benton, Franklin, and Yakima Counties.
Describes map units included on geologic maps (p. 10-12): Qco Colluvium; Qt Talus; Qld Landslides.

Lindquist, John W., 1957, Molluscan paleontology of Fiddlers Bluff, Washington: University of Washington class paper, 38 p.
Location: Snohomish County.
Mention of landslide debris and talus obscuring outcrop, p. 4.

Lipman, P. W.; Mullineaux, D. R., 1981, The 1980 eruptions of Mount St. Helens, Washington: U.S. Geological Survey Professional Paper 1250, 844 p., 1 plate, map scale 1:50,000.
Location: Mount St. Helens impact areas in Skamania and Cowlitz Counties.
Chapter on mudflows and rockslides, p. 347-540. Geologic map includes map units: t Talus deposits; mf Mudflow deposits; d debris-avalanche deposits. May 18, 1980 landslide photo sequences p. 72-76 and 353.

Livingston, Vaughn E., Jr., 1966, Geology and mineral resources of the Kelso-Cathlamet area, Cowlitz and Wahkiakum Counties, Washington: Washington Division of Mines and Geology Bulletin 54, 110 p., 2 plates.
Location: Cowlitz and Wahkiakum Counties.
Description and location of landslides, p. 47-48. Geologic maps include map unit: Qls Landslide.

Livingston, Vaughn E., Jr., 1971, Geology and mineral resources of King County, Washington: Washington Division of Mines and Geology Bulletin 63, 200 p., 7 plates.
Location: King County.
Brief discussion of landslides and of the Osceola mudflow, p. 33. Geologic maps include map units: Qls Landslide deposits; Qm Osceola mudflow.

Long, William A., 1951, Glacial geology of the Tieton Valley, south-central Washington: Northwest Science, v. 25, no. 3, p. 142-148.
Location: Yakima County.
Mentions Bethel Ridge landslide.

Long, William A.; Carson, Robert J., 1979 Significance of the age of Lena Lake, Olympic Mountains, Washington abstract: Gological Society of America Abstracts with Programs, v. 11, no. 3, p. 89.
Location: Jefferson County.
Lena Lake is formed by a landslide dam. Radiocarbon and other studies suggest this slide was possibly caused by an earthquake relating to the Saddle Mt. faults.

Lovseth, Timothy P., 1975, The Devils Mountain fault zone, north-western Washington: University of Washington Master of Science thesis, 29 p.
Location: Skagit County.
Geologic map (p. 19-20) includes map unit: Q1 Landslide deposits.

Lupher, R. L., 1944, Clastic dikes of the Columbia Basin region, Washington, and Idaho: Geological Society of America Bulletin, v. 55, no. 12, p. 14-31-1461.
Location: Asotin, Whitman and Walla Walla Counties.
Description of landslides in the Lewiston Basin and Touchet area p. 1458, 1459.

Lupher, R. L., 1944, Stratigraphic aspects of the Blewett-Cle Elum iron ore zone, Chelan and Kittitas Counties, Washington: Washington Division of Geology Report of Investigations 11, 63 p., 2 plates.
Location: Chelan and Kittitas Counties.
Description and discussion of landslides and slumps, p. 32-33. (Not shown on geologic map.)

Lupton, Charles T., 1914, Oil and gas in the western part of the Olympic Peninsula, Washington: U.S. Geological Survey Bulletin 581, p. 23-81.
Location: Olympic Peninsula.
Brief mentions of landslides, p. 30, 45, 46, 52, 59-60, 72.

Luzier, J. E., 1964, Ground-water supply for Mount Rainier National Park headquarters site near Ashford, Washington: U.S. Geological Survey Open-File Report 64-107, 26 p.
Location: Pierce County.
Brief mention of Mount Rainier mudflows, p. 4, 6.

Luzier, J. E., 1969, Geology and ground-water resources of south-western King County, Washington: Washington Department of Water Resources Water Supply Bulletin 28, 260 p., 3 plates.
Location: King County.
Brief mention of mass-wasting debris, p. 36; brief description of Osceola mudflow, p. 39. Geologic map includes map units: Qo Osceola mudflow; Qm Mass-wasting debris.

Mackin, J. H., 1944, Relation of geology to mineralization in the Morton-Cinnabar district, Lewis County, Washington: Washington Division of Mines and Mining Report of Investigations 6, 47 p.
Location: Lewis County.
Brief mention of landslides, p. 37, 43.

Mackin, J. H., 1949, Engineering geology of West Seattle: University of Washington Trend in Engineering, vol. 1, no. 3, p. 24-26.
Location: King County.
Discussion of the geology along Alki Avenue and the resulting landslides.

Mackin, J. H.; Mullineaux, D. R.; Stark, W. J., 1950, Glacial geology of Seattle: University of Washington Trend in Engineering, vol. 2, no. 4, p. 19-21.
Location: King County.
Discussion of the geology of Seattle, with mention of the landslide "scars" on Beacon Hill.

Madsen, Leonard, 1971, The natural hazards documentary study: Puget Sound Governmental Conference Staff Report 5, 15 p.
Location: Puget Lowland.
Discussion of landslides in central Puget Lowland, p. 11-13.

Mallory, V. S.; Tompkins, D. E., 1964, A geologic tripguide along northern Olympic Peninsula highways: Geological Society of America Cordilleran Section Meeting, Seattle, 39 p.
Location: Clallam County.
Description of landslide areas, p. 26, 28, 36, 37.

Marcus, Kim L., 1981, The rocks of Bulson Creek; Eocene-Oligocene sedimentation and tectonics in the Lake McMurray area, Washington: Western Washington University Master of Science thesis, 84 p., 1 plate, map scale 1:62,500.
Location: Skagit County.
Geologic map includes map unit: Qls Landslide and other gravitationally produced deposits.

Marshall, Alan G., 1971, An alluvial chronology of the lower Palouse River canyon and its relation to local archaeological sites: Washington State University Master of Arts thesis, 73 p., 1 plate.
Location: Whitman County.
Discussion and description of products of mass-wasting: inactive talus, active talus and colluvium, p. 21-22. Geologic map includes map units: Qco Colluvium; Qta Active talus; Qti Inactive talus.

Marshall, Nissim Joseph, 1955, A study of the fundamental properties of Puget Sound glacial clays: University of Washington Master of Science thesis, 81 p.
Location: Puget Sound lowland.
General discussion of landslides in Puget Lowland clays, p. 43-44, and description of stiffening, p. 45-65, 74.

May, Dann Joseph, 1980, The paleoecology and depositional environment of the late Eocene-early Oligocene Toutle Formation, southwestern Washington: University of Washington Master of Science thesis, 110 p.
Location: Lewis and Cowlitz Counties.
Description of landslide and mudflow debris, p. 5-6, 8, 16-17.

McCleary, Jeff; Dohrenwend, John; Cluff, Lloyd; Hanson, Kathryn L., 1978, 1872 earthquake studies, Washington Public Power Supply System nuclear project nos. 1 and 4--Straight Creek fault zone study: Woodward-Clyde Consultants, 1 vol.
Location: Skagit County.
Discussion of Quaternary geomorphology, including emplacement of colluvium, p. 56-58. Geologic maps include map units: Qls Landslide; Qly Younger Landslide; Qlo Older Landslide; Qt Talus.

McJunkin, R. D., 1969, Geology of the Malaga landslide, Chelan County, Washington [abstract]: Association of Engineering Geologists, National Meeting, Program, p. 29.
Location: Chelan County.

McKee, Bates, 1968, The destruction of Mount Rainier. in McKee, Bates; Coombs H., 1968, Guidebook to field trips, 1968 National Meeting: Association of Engineering Geologists, p. 46-52.
Location: Pierce County.
Description of mass-wasting on Mount Rainier.

McKee, Bates, 1972, Cascadia; the geologic evolution of the Pacific Northwest: McGraw-Hill Book Company. 394 p.
Location: Pacific Northwest.
Thorough overview of the geology of Washington, Oregon and Idaho. Includes brief discussion (and one photo) of slope stability problems associated with glacial sediments in the Seattle area, p. 299, 297.

McKnight, Edwin F. T., 1923, The origin and history of Lake Washington: University of Washington Bachelor of Science thesis, 63 p.
Location: King County.
Discussion and description of landslides as the cause of the submerged forests, p. 57-59, and description of current (1923) sliding.

McKnight, Edwin T., 1923, The White Bluffs Formation of the Columbia: University of Washington Bachelor of Science thesis, 22 p.
Location: Benton County.
Discussion and description of landslides, p. 13-14.

McLucas, Glennda B., 1980, Surficial geology of the Springdale and Forest Center quadrangles, Stevens County, Washington: Washington Division of Geology and Earth Resources Open-File Report 80-3, 29 p., 2 plates, map scale 1:24,000.
Location: Stevens County.
Discussion of a possible slide, p. 22-23; of talus deposits, p. 24.
Geologic maps include map units: Qtal Talus; Qls? Landslide deposit.

McMacken, J. G., 1942, Grand Coulee of Washington; the Grand Coulee Dam in picture and story, and Columbia Basin irrigation project; 5th ed: (Spokane) Joseph G. McMacken, 34 p.
Location: Grand Coulee dam area.
Mentions landslide abatement by freezing, p. 29.

McNeal, J. D., 1958, Trends. in Eckel, E. B., ed., 1958, Landslides and engineering practice: National Academy of Sciences-National Research Council Pub. 544 (Highway Research Board Special Report 29), p. 217-223.
Location:
Brief mention of stratigraphic units susceptible to landsliding in Washington: Nespelem silts, Astoria siltstone, and Eocene shales.

McWilliams, R. G., 1965, Geology and biostratigraphy of the Lake Crescent area, Clallam County, Washington: University of Washington Master of Science thesis, 165 p., 4 plates.
Location: Clallam County.
Discussion of Lake Crescent landslides, p. 38-39. Geologic map includes map unit: Landslide debris.

Miller, Michael S., 1967, The bedrock geology of the southeast quarter of Mount Steel quadrangle, Washington: University of Washington Master of Science thesis, 78 p.
Location: Jefferson and Mason Counties.
Brief mention of landslides, p. 9.

Miller, R. D., 1973, Map showing relative slope stability in part of west-central King County, Washington: U.S. Geological Survey Miscellaneous Investigations Series Map I-852-A, 1 sheet, map scale 1:48,000.
Location: King County.
Detailed slope stability map.

Milliken, Mark D., 1981, Geology of the Peter Dan Creek area, Okanogan County, Washington with a gravity survey across the Koontzville lineament: Eastern Washington University Master of Science thesis, 76 p., 2 plates.
Location: Okanogan County.
Thorough discussion and description of landslide deposits, p. 38-40; of debris flow deposits, p. 40-44; of colluvium, p. 46; of talus, p. 46.
Geologic map includes map units: Qt Talus; Qc Colluvium; Qdf Debris flow deposits; Qls Landslide deposits.

Minard, James P., 1980, Distribution and description of the geologic units in the Arlington West quadrangle, Washington: U.S. Geological Survey Open-File Report 80-461, 7 p., 1 plate, map scale 1:24,000.
Location: Snohomish County.
Includes map unit: Qls Landslide deposits.

Minard, James P., 1980, Distribution and description of the geologic units in the Lake Stevens quadrangle, Washington: U.S. Geological Survey Open-File Report 80-463, 6 p., 1 plate, map scale 1:24,000.
Location: Snohomish County.
Includes map unit: Qls Landslide deposits.

Minard, James P., 1980, Distribution and descripton of the geologic units in the Snohomish quadrangle, Washington: U.S. Geological Survey Open-File Report 80-2013, 7 p., 1 plate, map scale 1:24,000.
Location: Snohomish County.
Includes map unit: Qls Landslide deposits.

Minard, James P., 1980, Distribution and description of the geologic units in the Stanwood quadrangle, Washington: U.S. Geological Survey Open-File Report 80-462, 6 p., 1 plate, map scale 1:24,000.
Location: Snohomish County.
Includes map unit: Qls Landslide deposits.

Minard, James P., 1980, Distribution and description of the geologic units in the Tulalip quadrangle, Washington: U.S. Geological Survey Open-File Report 80-465, 6 p., 1 plate, map scale 1:24,000.
Location: Snohomish County.
Includes map unit: Qls Landslide deposits.

Minard, James P., 1980 (1981), Landslide deposits, eastern Puget Lowland [abstract]: U.S. Geological Survey Professional Paper 1175, p. 93.
Location: Snohomish and King Counties.
Brief description on-going study.

Minard, James P., 1981, Distribution and description of the geologic units in the Bothell quadrangle, Washington: U.S. Geological Survey Open-File Report 81-106, 4 p., 1 sheet, scale 1:24,000.
Location: Snohomish and King Counties.
Includes map unit: Qls Landslide deposits.

Minard, James, P., 1981, Distribution and description of the geologic units in the Everett quadrangle, Washington: U.S. Geological Survey Open-File Report 81-248, 5 p., 1 plate, map scale 1:24,000.
Location: Snohomish County.
Includes map unit: Qls Landslide deposits.

Minard, James P., 1981, Distribution and description of the geologic units in the Maltby quadrangle, Washington: U.S. Geological Survey Open-File Report 81-100, 4 p., 1 plate, map scale 1:24,000.
Location: Snohomish and King Counties.
Includes map unit: Qls Landslide deposits.

Mintz, D. W.; Babcock, R. S.; Terich, T. A., 1976, Potential land use problems of Puget Sound shore bluffs. in Washington Division of Geology and Earth Resources, 1974, Engineering geologic studies: Washington Division of Geology and Earth Resources Information Circular 58, p. 21-33.
Location: Puget Lowland.
Thorough examination of shoreline mass-wasting processes, with photos.

Misch, Peter, 1979, Geologic map of the Marblemount quadrangle, Washington: Washington Division of Geology and Earth Resources Geologic Map GM-23, 1 sheet, map scale 1:48,000.
Location: Whatcom and Skagit Counties.
Includes map units: Qt Talus; Qls Landslides.

Moak, D. J.; Wintczak, T. M., 1980, Near-surface test facility phase I geology site characterization report: Rockwell Hanford Operations RHO-BWI-ST-8, 1 vol.
Location: Benton County.
Geologic map includes map unit: Qld Landslide.

Moen, Wayne S., 1962, Geology and mineral deposits of the north half of the Van Zandt quadrangle, Whatcom County, Washington: Washington Division of Mines and Geology Bulletin 50, 129 p., 4 plates.
Location: Whatcom County.
Geologic map includes map unit: Qs Landslides.

Moen, Wayne S., 1969, Mines and mineral resources of Whatcom County, Washington: Washington Division of Mines and Geology Bulletin 57, 134 p., 14 plates.
Location: Whatcom County.
Geologic map includes map unit: Qs Landslide and mudflow deposits.

Moen, Wayne S., 1980, Myers Creek and Wauconda mining districts of north-eastern Okanogan County, Washington: Washington Division of Geology and Earth Resources Bulletin 73, 96 p., 6 plates.
Location: Okanogan County.
Brief mention of talus and landslide debris, p. 15.

Moore, James L., 1965, Surficial geology of the southwestern Olympic Peninsula: University of Washington Master of Science thesis, 63 p., 1 plate, scale 1:125,000.
Location: Grays Harbor County.
Mention of landslide, p. 8, with photo, p. 9.

Muessing, Siegfried, 1967, Geology of the Republic quadrangle and part of the Aeneas quadrangle, Ferry County, Washington: U.S. Geological Survey Bulletin 1216, 135 p.
Location: Ferry County.
Brief description of landslides, p. 78.

Mullineaux, Donal R., 1960, Volcanic debris flows in western Washington: Geological Society of the Oregon Country Geologic News Letter, v. 26, no. 5, p. 40.
Location: southwestern Washington.
Discusses criteria for recognition of debris flows, with information on Osceola mudflow, Mount St. Helens mudflows, Toutle River mudflows, and Kalama River mudflows.

Mullineaux, Donal R., 1961, Geology of the Renton, Auburn, and Black Diamond quadrangles, Washington: University of Washington Doctor of Philosophy thesis, 202 p., 3 plates:
Location: King County.
Thorough description and discussion of Osceola mudflow, p. 131-135.
Geologic map unit: Qom Osceola mudflow.
Abstract Dissertation Abstracts, v. 22, no. 9, p. 3157, 1962.
Note: Also issued as U.S. Geological Survey Open-File Report 61-110 and published as U.S. Geological Survey Professional Paper 672, and Geologic Quadrangle Maps GQ-405, GQ-406, and GQ-407.)

Mullineaux, Donal R., 1965, Geologic map of the Auburn quadrangle, King and Pierce Counties, Washington: U.S. Geological Survey Geologic Quadrangle Map GQ-406, 1 sheet, map scale 1:24,000.
Location: King and Pierce Counties.
Includes map units: Qmc Colluvium; Qms Similar to colluvium, but also includes relatively large block slides; Qom Osceola mudflow.

Mullineaux, Donal R., 1965, Geologic map of the Black Diamond quadrangle, King County, Washington: U.S. Geological Survey Geologic Quadrangle Map GQ-407, 1 sheet, map scale 1:24,000.
Location: King County.
Includes map units: Qmc Colluvium; Qms Similar to colluvium, but also includes relatively large block slides; Qom Osceola mudflow.

Mullineaux, Donal R., 1965, Geologic map of the Renton quadrangle, King County, Washington: U.S. Geological Survey Geologic Quadrangle Map GQ-405, 1 sheet, map scale 1:24,000.
Location: King County.
Geologic map includes map unit: Qmc Deposits of mass-wasting processes.

Mullineaux, Donal R., 1970, Geology of the Renton, Auburn, and Black Diamond quadrangles, King County, Washington: U.S. Geological Survey Professional Paper 672, 92 p.
Location: King and Pierce Counties.
Thorough discussions of Colluvium, p. 53-54; Osceola mudflow, p. 54-56.

Mullineaux, Donal R., 1976, Preliminary overview map of volcanic hazards in the 48 conterminous United States: U.S. Geological Survey Miscellaneous Field Studies Map MF-786, 1 sheet, map scale 1:7,500,000.
Location: Conterminous United States.
Shows potential hazards from volcanic mudflows. The national context provides comparison with other areas.

Mullineaux, Donal R.; Crandell, Dwight R., 1962, Recent lahars from Mount St. Helens, Washington: Geological Society of America Bulletin, v. 73, no. 7, p. 855-869.
Location: Skamania and Cowlitz Counties.
Lahars of Mount St. Helens.

Mullineaux, Donal R.; Gard, Leonard M.; Crandell, Dwight R., 1959, Continental sediments of Miocene age in Puget Sound lowland, Washington: American Association of Petroleum Geologists Bulletin, v. 43, no. 3, pt. 1, p. 688-696.
Location: Puget Lowland.
Description of mudflow deposits in the Puget Lowland.

Mundorff, Maurice J.; Weigle, J. M.; Holmberg, G. D., 1953, Ground water in the Yelm area, Thurston and Pierce Counties, Washington: U.S. Geological Survey Ground Water Report 4, 122 p.
Location: Thurston and Pierce Counties.
Brief mention of "ancient" landslide located south of Yelm, resulting from glacial erosion of Mulqueen Gap.

Mundorff, J. M.; Weigle, J. M.; Holmberg, G. C., 1955, Ground water in the Yelm area, Thurston and Pierce Counties, Washington: U.S. Geological Survey Circular 356, 58 p.
Location: Thurston and Pierce Counties.
Mentions Mulqueen Gap slide south of Yelm, p. 12.

Munoz, Andy, Jr., 1974, Use of reinforced earth to correct the Heart O' The Hills slide: Engineering Geology and Soils Engineering Symposium, 12th Annual, Idaho Department of Transportation, p. 163-175.
Location: Clallam County.
Description of engineering procedures to abate a landslide.

Murphy, Leonard M.; Ulrich, Franklin P., 1951.
United States earthquakes 1949: U.S. Coast and Geodetic Survey Serial 748, 64 p.
Location: Puget Lowland.
Includes brief description of landslides caused by the April 13, 1949 earthquake, p. 22.

Myers, C. W.; Price, S. M., and others, 1979, Geologic studies of the Columbia Plateau; a status report: Rockwell Hanford Operations RHO-BWI-ST-4, 541 p., 53 plates.
Location: Columbia Basin.
Thorough study of the geology of the Columbia Basin. Mention or discussion of landslides: p. II-65, 71, 116; III-10, 69, 129. Plates 11 - 19 include map unit: Qls Landslide.

Myers, C. W.; Price, S. M., 1979, Geologic studies of the Columbia Plateau--A status report: Rockwell Hanford Operations RHO-BWI-ST-4, 541 p., in box with 52 plates.
Location: Columbia Plateau.
Discussion of landslides, colluvium, and talus, p. II-70 to II-71; and p. III-69. Various geologic maps include landslide deposits.

Myers, D. A., 1970, Availability of ground water in western Cowlitz County, Washington: Washington Department of Ecology Water-Supply Bulletin 35, 63 p., 2 plates.
Location: Cowlitz County.
Brief description of landslide debris, p. 11. Geologic map includes map unit: Qls Landslide debris.
GWT: "Pleistocene and recent landslides of Tertiary and Quaternary rock are common throughout the county. Many appear to be stable and support homes".

Nelson, James W., 1958, Soil properties related to vegetation and time on the Kautz Creek flood area, Mount Rainier, Washington: University of Washington Master of Science thesis, 56 p.
Location: Pierce County.
Thorough account of 1947 Kautz Creek mudflow, p. 1, 3-9, 13, 29.

New, William R., 1940, The origin of Goose Egg Mountain, Yakima County: State College of Washington Master of Science thesis, 40 p.
Location: Yakima County.
Mention of landslides, p. 4. Geologic map includes map unit: Mudflow and landslide.

Newberry, J. S., 1885, Notes on the surface geology of the country bordering the Northern Pacific Railroad: American Journal of Science and Arts, v. 3, no. 30, p. 337-346.
Brief description of the landslide-caused dam of the Columbia, at "the Cascades".
Location: Columbia River Gorge.

Newcomb, R. C., 1952, Ground-water resources of Snohomish County, Washington: U.S. Geological Survey Water-Supply Paper 1135, 133 p.
Location: Snohomish County.
Mentions landslide area 3 miles north of Picnic Point, p. 34.

Newcomb, Reuben C., 1969, Effect of tectonic structure on the occurrence of ground-water in the basalt of the Columbia River Group of The Dalles area, Oregon and Washington: U.S. Geological Survey Professional Paper 383-C, 33 p.
Location: Klickitat County.
Geologic map includes map units: Qco Colluvium; QTls Landslump deposits.

Newcomb, Reuben C., 1971, Geologic map of the proposed Paterson Ridge pumped-storage reservoir, south-central Washington: U.S. Geological Survey Miscellaneous Geologic Investigations Series Map I-653, 4 p., 1 sheet, map scale 1:31,680.
Location: Benton and Klickitat Counties.
Geologic map includes map units: Qc Colluvium; ls Landslide materials.

Newcomb, Reuben C.; Strand, J. R.; Frank, F. J., 1972, Geology and ground-water characteristics of the Hanford Reservation of the U.S. Atomic Energy Commission, Washington: U.S. Geological Survey Professional Paper 717, 78 p.
Location: Benton, Franklin and Grant Counties.
Description of colluvium, p. 7; of declivities and landslides, p. 24-25.
Geologic map includes map units: Qls Landslide deposits; Qcl Colluvium.

Nichols, R. L., 1945, Preliminary report on the Cowlitz high-alumina clay deposit near Castle Rock, Cowlitz County, Washington: U.S. Geological Survey Open-File Report 45-12, 18 p.
Location: Cowlitz County.
Brief mention of landslide deposits, p. 5.

Nichols, R. L., 1945, Preliminary report on the King County, Washington, high-alumina clay deposits: U.S. Geological Survey Open-File Report 46-9, 28 p.
Location: King County.
Brief mention of slides in the Black Diamond-Durham area.

Northern Tier Pipeline Co., 1979, Application for site certification; volume IV, Maps: Washington Energy Facilities Site Evaluation Council, 1 vol.
Location: Proposed pipeline routes around and across Puget Sound, across the Cascade Mountains, and across eastern Washington.
Geologic hazard maps include map units: Landslide potential; Mudflows.

Olmstead, T. L., 1968, Lower Baker River landslide. in McKee, Bates; Coombs, Howard, eds., 1968, Guidebook to field trips, 1968 National Meeting: Association of Engineering Geologists, p. 98-101.
Location: Skagit County.
Detailed description and discussion of 1965 landslide at the Lower Baker River power-house, with maps.

Olson, Theodore M., 1971, The Colfax landslide, a case history: Society of Mining Engineers of AIME, preprint 71-I-305.
Location: Whitman County.
Thorough description and discussion of engineering aspects of Colfax landslide.

Olson, Theodore M., 1971, Landslide case history, Colfax, Washington [abstract]: Mining Engineering, v. 23, no. 8, p. 37.
Location: Whitman County.
Brief description of the Colfax landslide.

Olson, Theodore M., 1975, The geology and groundwater resources of part of the Hangman and Marshall Creek drainage basins, Spokane County, Washington: Eastern Washington State College Master of Science thesis, 70 p., 1 plate.
Location: Spokane County.
Description of landslide debris, p. 19. (Not shown on geologic map.)

Olson, Theodore M.; Gilmour, E. H.; Bacon, Marion; Gaddy, J. L.; Robinson, G. A.; Parker, O. J., 1975, Geology, ground water, and water quality of part of southern Spokane County, Washington: Washington Department of Ecology Water Resources Information System Technical Bulletin 15, 146 p., 2 plates.
Location: Spokane County.
Description and discussion of landslide debris, p. 17. (Not shown on geologic map.)

Othberg, Kurt L., 1975, Geologic interpretive map showing areas of unstable slopes, Kitsap County, Washington: Washington Division of Geology and Earth Resources Open-File Report 75-7, 1 sheet, map scale 1:24,000.
Location: Kitsap County.
Detailed slope stability map.

Othberg, Kurt L., 1975, Geomorphology of the Colockum Pass area, Kittitas County, Washington: Washington Division of Geology and Earth Resources Open-File Report 75-8, 3 p.
Location: Kittitas County.
Discussion of mass-wasting; soil flowage; slumping potential of basalt flows; current slumping of talus debris flows.

Othberg, Kurt L.; Palmer, Pam, 1980, Preliminary surficial geologic map of part of the Gardiner quadrangle, Clallam County, Washington: Washington Division of Geology and Earth Resources Open-File Report 79-19, 3 p., 1 sheet, map scale 1:24,000.
Location: Clallam County.
Includes map unit: Qls Landslide.

Othberg, Kurt L.; Palmer, Pam, 1980, Preliminary surficial geologic map of the Carlsborg quadrangle, Clallam County, Washington: Washington Division of Geology and Earth Resources Open-File Report 79-20, 1 sheet, map scale 1:24,000.
Location: Clallam County.
Includes map unit: Qls Landslide deposits.

Othberg, Kurt L.; Palmer, Pam, 1980, Preliminary surficial geologic map of the Dungeness quadrangle, Clallam County, Washington: Washington Division of Geology and Earth Resources Open-File Report 79-17, 3 p., 1 sheet, map scale 1:24,000.
Location: Clallam County.
Includes map unit: Qls Landslide.

Othberg, Kurt L.; Palmer, Pam, 1980, Preliminary surficial geologic map of the Sequim quadrangle, Clallam County, Washington: Washington Division of Geology and Earth Resources Open-File Report 79-18, 4 p., 1 sheet, map scale 1:24,000.
Location: Clallam County.
Includes map unit: Qls Landslide.

Othberg, Kurt L.; Pringle, R. F.; Jennings, J. W.; Howes, S. W., 1976, Geomorphology and soils mapping, Wahkiakum County, Washington [abstract]: Geological Society of America Abstracts with Programs, v. 8, no. 3, p. 402.
Location: Wahkiakum County.
Discusses mass-wasting as a function of landform and bedrock lithology.

Page, Ben M., 1939, Geology of a part of the Chiwaukum quadrangle, Washington: Stanford University Doctor of Philosophy thesis, 203 p., 2 plates.
Location: Chelan County.
Brief mention of possible landslides, p. 83-84, 114.

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Location: King County.
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Abstract: Dissertation Abstracts International, v. 32, no. 8, Section B, p. 4580, 1972.

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Location: Pierce County.
Thorough description and discussion of recent volcanic mudflows of the Puyallup Valley, with photos, p. 50-59, 61-62. Geologic map includes map unit: Volcanic mudflows. Block diagrams include volcanic mudflows.

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Location: Columbia River Gorge.
Brief description of landslides.

Palmer, Leonard A., 1977, Large landslides of the Columbia River Gorge, Oregon and Washington. in Coates, D. R., ed., 1977, Landslides; reviews in engineering geology: Geological Society of America, vol. 3, p. 69-83.
Location: Skamania County.
Thorough discussion and description of Columbia River Gorge landslides.

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Location: Pierce County.
Discussion of landslide in proposed damsite area, p. 4-5.

Patton, T. C., 1967, Economic geology of the L-D mine, Wenatchee, Washington: University of Washington Master of Science thesis, 29 p.
Location: Chelan County.
Description of landslides in Stemilt Creek vicinity, with photo and map, p. 8, 11.

Paul, R. A., 1979, The effects of geologic structures on slope stability at the Centralia coal mine. in Brawner, C. O., ed., 1979, Stability in coal mining; proceedings of the First international symposium on stability in coal mining: Miller Freeman Publications, p. 29-34.
Location: Lewis and Thurston Counties.

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Location: Ferry and Okanogan Counties.
Geologic map includes map unit: Ql Landslide deposits.

Pease, Maurice H., Jr.; Hoover, Linn, Jr., 1957, Geology of the Doty-Minot Peak area, Washington: U.S. Geological Survey Oil and Gas Investigations Map OM-188, 1 sheet, map scale 1:62,500.
Location: Grays Harbor, Pacific, and Lewis Counties.
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Location: Skagit County.
Includes description and discussion of the Lower Baker slide, 1964-65, p. 412-417.

Pilz, H. A., 1968, Stemilt Creek basin landslide near Wenatchee. in McKee, Bates; Coombs, Howard, eds., 1968, Guidebook to field trips, 1968 National Meeting: Association of Engineering Geologists, p. 11-13.
Location: Chelan County.
General discussion of landslide area.

Piper, A. M., 1932, Geology and ground-water resources of The Dalles region, Oregon: U.S. Geological Survey Water-Supply Paper 659-B, p. 107-189.
Location: Klickitat County.
Description and discussion of landslides, p. 138-139. (Not shown on geologic map.)

Popoff, C. C., 1955, Cowlitz clay deposits near Castle Rock, Washington: U.S. Bureau of Mines Report of Investigations 5157, 60 p.
Location: Cowlitz County.
Information on slides in the vicinity of Camp Cowlitz on the Toutle River.

Porter, S. C., 1965, Quarternary geology of the route between Yakima and Seattle. in International Association for Quarternary Research, 1965, Guidebook for field conference J, Pacific Northwest: International Association for Quaternary Research, p. 34-50.
Location: Kittitas County.
Mentions Lookout Mountain landslide area, p. 37-40.

Porter, S. C., 1969, Pleistocene geology of the east-central Cascade Range, Washington: Pacific Coast Friends of the Pleistocene 3rd Field Conference Guidebook, 54 p.
Location: Kittitas and Chelan Counties.
Mentions landslide along Old Blewett Highway and on Lookout Mountain, p. 28, 37-38.

Pratt, Richard M., 1958, The geology of the Mount Stuart area, Washington: University of Washington Doctor of Philosophy thesis, 229 p., 4 plates.
Location: Chelan, King, and Kittitas Counties.
Brief mention of possible landslide deposits, p. 40, illustration, p. 42.
Abstract: Dissertation Abstracts, v. 19, no. 12, p. 3278, 1959.

Puget Sound Council of Governments, 1975, Regional disaster mitigation plan for the central Puget Sound region: Puget Sound Council of Governments, 2 vol.
Location: Puget Lowland.
Discussion and description of historical and potential landslides, vol. 1, p. 34-37; volcanic mudflow hazards, vol. 1, p. 49-52; Landslide susceptibility map, vol. 2, p. 7; discussion of landslide probability, vol. 2, p. 26-29; conditional landslide probability, vol. 2, p. 30; volcanic mudflow susceptibility map, vol. 2, p. 20; volcanic mudflow probabilities, vol. 2, p. 34-35.

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Location: King County.
Discussion of landslide hazards, p. 14.

Radbruch-Hall, D. H.; Colton, R. B.; Davis, W. E.; Skipp, B. A.; Luccitta, I.; Varnes, D. J., 1976, Preliminary landslide overview map of the conterminous United States: U.S. Geological Survey Miscellaneous Field Studies Map MF-771, 1 sheet, map scale 1:7,500,000.
Location: Conterminous United States.
Landslide areas in the U.S. The national context provides comparison with other areas.

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Location: Southeast Washington.
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Location: Jefferson County.
Tabulation of approximately 850 with notes on location, intensity and effects. Includes brief mention of 1902 earthquake-caused landslide in western Jefferson County.

Rasmussen, Norman H.; Mulcahey, Michael, 1973, A pilot study of soil stability and landslide potential of the Redmond, Kirkland, Mercer Island and Issaquah quadrangles, King County, Washington: Puget Sound Governmental Conference, 6 p.
Location: King County.

Rau, Weldon W., 1966, Stratigraphy and Foraminifera of the Satsop River area, southern Olympic Peninsula, Washington: Washington Division of Mines and Geology Bulletin 53, 66 p., 8 plates.
Location: Grays Harbor and Mason Counties.
Discussion of landslides, p. 21. Geologic map includes map unit: Landslide.

Rau, Weldon. W., 1967, Geology of the Wynoochee quadrangle, Grays Harbor County, Washington: Washington Division of Mines and Geology Bulletin 56, 51 p., 1 plate, map scale 1:62,500.
Location: Grays Harbor County.
Discussion of landslide, p. 39. Geologic map includes map unit: Landslide debris.

Rector, Richard J., 1962, Geology of the east half of the Swauk Creek mining district: University of Washington Master of Science thesis, 73 p., 2 plates.
Location: Kittitas County.
Description and discussion of mass-wasting processes, p. 51-53. (Not shown on geologic map.)

Reid, Leslie M., 1981, Sediment production from gravel-surfaced forest roads, Clearwater Basin, Washington: University of Washington Fisheries Research Institute FRI-UW-8108, 247 p. (Note: Also accepted as a Master of Science thesis, Geology Department, University of Washington.)
Location: Jefferson County.
Thorough examination of landsliding as a factor in logging: Introduction and literature review, p. 5-7; full study of landslide and debris flows, p. 114-138.

Reidel, Stephen P., 1978, Geology of the Saddle Mountains between Sentinel Gap and 119°30' longitude: Rockwell Hanford Operations Information Report RHO-BWI-LD-4, 75 p., 4 plates.
Location: Grant and Kittitas Counties.
Discussion of area landsliding. (Not shown on geologic maps.)

Rhoades, R., 1947, Geology in civil engineering; the Columbia Basin landslides: Engineering, vol. 163, p. 377.
Location: Grand Coulee Dam, Lake Roosevelt area.
Discussion of ancient area landslides, and the slides caused by the fluctuation in the water level of Lake Roosevelt after Grand Coulee Dam was built.

Richardson, Donald; Bingham, J. W.; Madison, R. J., 1968, Water resources of King County, Washington, with a section on Sediment in streams, by R. C. Williams: U.S. Geological Survey Water-Supply Paper 1852, 74 p.
Location: King County.
Geologic map includes map unit: Qo Osceola mudflow.

Rigby, James G.; Othberg, Kurt L.; Campbell, Newell P.; Hanson, Larry G.; Kiver, Eugene P.; Stradling, Dale F., 1979, Reconnaissance surficial geologic mapping of the late Cenozoic sediments of the Columbia Basin, Washington: Washington Division of Geology and Earth Resources Open-File Report 79-3, 94 p., 7 plates, map scale 1:12,000.
Location: Columbia Basin; Yakima County.
Note: Text is an overall discussion of the Columbia Basin. Maps are of a specific area in Yakima County.
Text: Discussion of landslide deposits, p. 44; of colluvium, p. 46.
Maps: Include map unit: Landslide deposits.

Rinehart, C. Dean; Fox, Kenneth F., Jr., 1972, Geology and mineral deposits of the Loomis quadrangle, Okanogan County, Washington: Washington Division of Geology and Earth Resources Bulletin 64, 124 p., 3 plates.
Location: Okanogan County.
Geologic map includes map unit: Qt Talus deposits.

Rinehart, C. Dean; Fox, Kenneth F., Jr., 1976, Bedrock geology of the Conconully quadrangle, Okanogan County, Washington: U.S. Geological Survey Bulletin 1402, 58 p.
Location: Okanogan County.
Brief mention of talus and landslide deposits, p. 44. Geologic map includes map units: Qt Talus deposits; Qls Landslide west of Booher Lake.

Rippe, A. H.; Kent, M. D., 1980, Professional judgment in a landslide stabilization project. in Proceedings of the Eighteenth Annual Engineering Geology and Soils Engineering Symposium: Idaho Transportation Department, p. 15-31.
Location: Cowlitz County.
Thorough discussion and description of the methods used to stabilize a 1977 landslide.

Ritchie, A. M., 1958, Recognition and identification of landslides. in Eckel, E. B., ed., 1958, Landslide and engineering practice: National Academy of Sciences-National Research Council Publication 544 (Highway Research Board Special Report 29), p. 48-68.
Location: King and Clallam Counties.
Photos of Snoqualmie Pass slide and slide west of Twin, Washington.

Robb, George L., 1950, Geologic techniques in civil engineering. in Leroy, L. W., ed., 1950, Subsurface geologic methods; a symposium; 2nd ed.: Colorado School of Mines, p. 1120-1149.
Location: Northeast Washington.
Discusses landslides along Lake Roosevelt, p. 1148-1149.

Roberts, A. E. 1958, Geology and coal resources of the Toledo-Castle Rock district, Cowlitz and Lewis Counties, Washington: U.S. Geological Survey Bulletin 1062, 71 p., 1 plate.
Location: Cowlitz and Lewis Counties.
Discussion and description of landslides, p. 40-61. Geologic map includes map unit: Qls Landslide debris.

Robertson, Christopher A., 1981, Petrology, sedimentology, and structure of the Chuckanut Formation, Coal Mountain, Skagit County, Washington: University of Washington Master of Science thesis, 41 p., 2 plates.
Location: Skagit County.
Brief description of landslides, p. 6. Geologic map includes map unit: Qls Landslide deposits.

Rosengreen, Theodore Ernest, 1965, Surficial geology of the Maple Valley and Hobart quadrangles, Washington: University of Washington Master of Science thesis, 71 p., 1 plate, map scale 1:24,000.
Location: King County.
Description and discussion of colluvium and landslides, p. 38-39. Geologic map includes map unit: Sl Landslide sediments.

Rosenmeier, Frederick J., 1968, Stratigraphy and structure of the Table Mountian-Mission Peak are in the Wenatchee Mountains, central Washington: University of Washington Master of Science thesis, 44 p., 1 plate, map scale 1:24,000.
Location: Kittitas County.
Description and discussion of landslides, p. 36-37. Geologic map includes map unit: Landslide, basalt scree.

Russell, I. C., 1893, A geologic reconnaissance in central Washington: U.S. Geologicl Survey Bulletin 108, 108 p.
Location: central Washington.
Description of Simco and Toppenish landslides, and others (p. 40, 43, 46, 47-48, 74, 79-79, 85; Plates 3, 4, 5, 6.)

Russell, Israel C., 1898, Topographic features due to landslides: Popular Science Monthly, v. 53, p. 480-489.
Location: Cascade Range; Columbia Basin.
General discussion of regional landslides, with specific discussion of landsliding around Lookout Mountain.

Russell, Israel C., 1900, A preliminary paper on the geology of the Cascade Mountains in northern Washington: U.S. Geological Survey 20th Annual Report, pt. 2, p. 193-204.
Location: Northern Washington; Columbia Basin.
Thorough discussion of causes and evidence of landslides and slide blocks.

Russell, Israel C., 1901, Geology and water resources of Nez Perce County, Idaho, Part 1: U.S. Geological Survey Water-Supply Paper 53, p. 1-85.
Location: Asotin County.
General discussion of landslides along the Grande Ronde River and Asotin Creek, p. 75-79.

Salisbury and Dietz, Inc., 1980, Geology of the Concrete quadrangle: U.S. Department of Energy, 1 sheet, map scale 1:250,000.
Location: Whatcom, Skagit, Snohomish, Okanogan, and Chelan Counties.
Includes map unit: Ql Landslide debris and mudflow deposits.

Salisbury and Dietz, Inc., 1980, Geology of the Wenatchee quadrangle: U.S. Department of Energy, 1 sheet, map scale 1:250,000.
Location: Snohomish, King, Chelan, Douglas, and Kittitas Counties.
Includes map unit: Qls Landslide and mudflow deposits.

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Location: Pierce, Kittitas, Yakima, Lewis, and Skamania Counties.
Includes map units: Qls Landslide and mudflow deposits; Qta Colluvium.

Saunders, E. J., 1914, The coal fields of Kittitas County: Washington Geological Survey Bulletin 9, 204 p., 2 plates.
Location: Kittitas County.
Brief description of landslides, p. 35. (Not shown on geologic map.)

Schminke, Hans-Ulrich, 1964, Petrology, paleocurrents, and stratigraphy of the Ellensburg Formation and interbedded Yakima Basalt flows, south-central Washington: Johns Hopkins University Doctor of Philosophy thesis, 426 p.
Location: Columbia Basin.
Description and discussion of lahars, p. 308-319.
Abstract: Dissertation Abstracts, v. 25, no. 11, p. 6541-6542, 1965.

Schuster, J. Eric, 1973, A learning guide on the geology of the Cispus Environmental Center area, Lewis County, Washington: Washington Division of Geology and Earth Resources Open-File Report 73-4, 53 p.
Location: Lewis County.
Geologic map includes map unit: Qt Talus.

Schuster, R. L., 1980, Landslides related to reservoirs [abstract]: Geological Society of America Abstracts with Programs, v. 12, no. 6. p. 303.
Location: Grand Coulee Dam area.
Brief discussion of the landslides of Roosevelt Lake.

Schuster, Robert L.; Krizek, Raymond J., eds., 1978, Landslides; analysis and control: National Academy of Sciences Transportation Research Board Special Report 176, 234 p., 1 plate.
Location: (Various Washington locations)
This important work on landslides includes numerous references to Washington landslides: p. 19-21, brief mentions and photos of the Lake Roosevelt slides; p. 21, Mount Rainier slides; p. 45, portion of the Tyler Peak quad map showing landslides; p. 50, infrared photo of a portion of Skamania County; p. 67, aerial photo of portion of Yakima County; p. 118, graph showing microwave measurements of a slide along the Columbia River; p. 220, photo of rock-fall control near Kelso.

Schuster, R. L.; Wolters, R., eds., 1979, Reservoir-induced landslides. in Engineering geological problems in hydrotechnical construction-Problemes de geologie del'ingineur dans la construction hydrotechnique; symposium: International Association of Engineering Geologists Bulletin, no. 20, p. 8-15.
Location: Grand Coulee Dam area.
Landslides of Roosevelt Lake.

Schwarz, S. D., 1969, Geophysical site exploration, Third Lake Washington floating bridge: Engineering Geology and Soils Symposium, 6th Annual, Boise, Idaho, 1968, p. 147-156.
Location: King County.
Description of submarine slumping just north of old floating bridge on Lake Washington.

Scott, W. Frank, 1978, Potential natural landmarks, geologic themes, on the Columbia Plateaus; a report prepared for the Heritage Conservation and Recreation Service, United States Department of Interior: Washington State University, 290 p.
Location: Adams County.
Brief description of Saddle Mountain (Corfu) landslide, p. 227.
Shown on location maps, p. 144-226.

Shannon and Wilson, 1968, Summary report; soil conditions and earth movements, vicinity of Tukwila interchange: Washington State Highway Commission (unpublished report?).
Location: King County.
Hillside adjacent to interchange has a long history of instability.

Shannon and Wilson, Inc., 1976, Reconnaissance investigations of the Ribbon Cliff landslide, Entiat, Chelan County, Washington; report to Portland General Electric Company: Shannon and Wilson, Inc., 7 p.
Location: Chelan County.
Investigation of old slide debris to discern a connection with the 1872 earthquake.

Shannon and Wilson, Inc., 1973, Geologic studies of Columbia River basalt structures and age of deformation--The Dalles-Umatilla region, Washington and Oregon, Boardman nuclear project; prepared for Portland General Electric Company: Shannon and Wilson, Inc., 1 vol., 2 plates.
Location: Columbia Basin.
Geologic maps include map units: ls landslide; Qc Colluvium.

Shannon, W. C., and Associates, 1952, Report on slide on North Fork Stillaquamish River near Hazel, Washington: Washington Departments of Game and Fisheries unpublished report.
Location: Snohomish County.
Discussion of slide and stabilization options (with detailed map and cross section.)

Sharpe, C. F. S., 1938, Landslides and related phenomena; a study of mass-movements of soil and rock: Columbia University Press, 136 p.
Location: Cascade Range, Columbia Plateau, and Grand Coulee dam areas.
Discussion of slumping in the Cascades and Columbia Plateau, p. 68-69; of Grand Coulee landslides of 1934, p. 80-81.

Shelton, John S., 1966, Geology illustrated: W. H. Freeman and Company, 434 p.
Location: Adams-Grant Counties.
Brief description and discussion of a Corfu landslide west of Othello, p. 124, photo p. 125.

Sidle, Roy C., 1980, Slope stability on forest land: Oregon State University Extension Service PNW 209, 23 p.
Location: Washington State.
Brief overview of slope stability on forest land in Washington, Oregon and Idaho.

Simmons, George C., 1950, The Russell Ranch Formation: State College of Washington Master of Science thesis, 26 p., 2 plates.
Location: Yakima County.
Geologic map includes map unit: Mf Mudflows.

Simmons, George C.; Van Noy, Ron M.; Zilka, N. T., 1974, Mineral resources of the Cougar Lakes-Mount Aix study area, Yakima and Lewis Counties, Washington, with a section on Interpretation of aeromagnetic data, by W. E. Davis: U.S. Geological Survey Open-File Report 74-243, 80 p., 3 plates.
Location: Yakima and Lewis Counties.
Includes brief mention of talus deposits. Geologic map includes map unit: Qt Talus.

Simmons, John D., 1973, Slope stability of southeast Snohomish County. in Capps, Gerald E.; Simmons, John D.; Videgar, Frank D., 1973, Geology of southern Snohomish County for land-use planning: Western Washington State College, 10 p.
Location: Snohomish County.
Discussion of slope stability.

Simmons, John D., 1973, Supplement to Preliminary report on the geology of southern Snohomish County: Washington Division of Geology and Earth Resources Open-File Report 73-1, supplement, 4 sheets, map scale 1:24,000.
Location: Snohomish County.
Hand-colored overlays showing slope stability.

Smith, G. O., 1900, [Landslides in Mount Stuart quadrangle, Washington]: Geological Society of America Bulletin, v. 11, p. 583-584.
Location: Kittitas and Chelan Counties.
Brief mention of occurrence of many landslides in the Mount Stuart quadrangle, during discussion of Colorado landslides.

Smith, G. O., 1903, Geologic atlas of the United States--Ellensburg folio: U.S. Geological Survey Geologic Folio 86, 7 p.
Location: Yakima and Kittitas Counties.
Brief description of the SW Cleman Mountain slide on the Naches River, p. 5.

Smith, G. O., 1903, Geology and physiography of central Washington: U.S. Geological Survey Professional Paper 19, p. 1-39.
Location: Yakima and Kittitas Counties.
Brief description of landslides, p. 23; shown on map, plate 5.

Smith, G. O. 1904, Geologic atlas of the United States--Mount Stuart folio: U.S. Geological Survey Geologic Folio 106, 10 p.
Location: Kittitas and Chelan Counties.
Description of Table Mountain and Lookout Mountain slide areas, and slide area near Throp Mountain, p. 3.

Smith, G. O.; Calkins, F. C., 1904, A geological reconnaissance across the Cascade Range near the forty-ninth parallel: U.S. Geological Survey Bulletin 235, 103 p.
Location: Cascade Range.
Brief description of Table Mountain slide area, p. 32.

Smith, G. O.; Calkins, F. C., 1906, Geologic atlas of the United States--Snoqualmie folio: U.S. Geological Survey Geologic Folio 139, 14 p.
Location: King, Pierce, Yakima and Kittitas Counties.
Description of large landslide at the head of Quartz Creek, p. 7.

Smith, Mackey, 1972, Stratigraphy and chronology of the Tacoma area, Washington: Western Washington State College Master of Science thesis, 38 p., 1 plate, map scale 1:23,000.
Location: Pierce County.
Mentions landslides, p. 9-10; discusses interbedded mudflow of the Salmon Springs drift, p. 13; discusses lahars, p. 17-21. (Not shown on geologic map.)

Smith, Mackey, 1974, Landsliding and slope stability in the southern Puget Lowland, Washington [abstract]: Geological Society of America Abstracts with Programs, v. 6, no. 3, p. 255.
Location: Puget Lowland.
Brief discussion.

Smith, Mackey, 1974, Poulsbo slide: Washington Geologic Newsletter, v. 2, no. 3, p. 7.
Location: Kitsap County.
Brief discussion and description of current (1974) landsliding.

Smith, Mackey, 1975, Preliminary surficial geologic map of the Edmonds East and Edmonds West quadrangles, Snohomish and King Counties, Washington: Washington Division of Geology and Earth Resources Geologic Map GM-14, 1 sheet, map scale 1:24,000.
Location: Snohomish and King Counties.
Geologic map includes map unit: Qols Old landslides.

Smith, Mackey, 1976, Preliminary surficial geologic map of the Mukilteo and Everett quadrangles, Snohomish County, Washington: Washington Division of Geology and Earth Resources Geologic Map GM-20, 1 sheet, map scale 1:24,000.
Location: Snohomish County.
Includes map units: Qls Landslides; Qols Old Landslides.

Smith, Mackey, 1976, Relative slope stability of Gig Harbor peninsula, Pierce County, Washington: Washington Division of Geology and Earth Resources Geologic Map GM-18, 1 sheet, map scale 1:31,250.
Location: Pierce County.
Detailed slope stability map.

Smith, Mackey, 1976, Surficial geology of northeast Tacoma, Pierce County, Washington: Washington Division of Geology and Earth Resources Open-File Report 76-9, 1 sheet, map scale 1:24,000.
Location: Pierce County.
Table "Engineering properties of map units" includes discussion of slope stability.

Smith, Mackey, 1977, Geologic map of City of Tacoma, Pierce county, Washington: Washington Division of Geology and Earth Resources Open-File Report 77-9, 1 sheet, map scale 1:24,000.
Location: Pierce County.
Includes map unit: Qls Landslide.

Smith, Mackey; Carson, Robert J., 1977, Relative slope stability of the southern Hood Canal area, Washington: U.S. Geological Survey Miscellaneous Investigations Series Map I-853-F, 1 sheet, map scale 1:62,500.
Location: Mason County.
Map shows relative stability of natural slopes.

Smith, Rockwell, 1958, Economic and legal aspects. in Eckel, E. B., eds., 1958, Landslides and engineering practice: National Academy of Sciences-National Research Council Publication 544 (Highway Research Board Special Report 29), p. 6-19.
Location: King County.
Discussion of landslides in Seattle, p. 9, 16, 17.

Snavely, Parke D., Jr., 1954, Geologic log for field trip in the Centralia-Chehalis area, southwestern Washington: Geological Society of America Cordilleran Section unpublished report, 7 p.
Location: Lewis County.
Mentions landslide materials along roadway.

Snavely, Parke D., Jr.; Brown, R. D., Jr.; Roberts, A. E.; Rau, Weldon W., 1958, Geology and coal resources of the Centralia-Chehalis district, Washington, with a section on Microscropical character of Centralia-Chehalis coal, by M. M. Schopf: U.S. Geological Survey Bulletin 1053, 159 p., 1 plate, map scale 1:48,000.
Location: Lewis and Thurston Counties.
Discussion and description of landslides, p. 78-79. Geologic map includes map unit: Qls Landslide debris.

Snavely, Parke D., Jr.; Roberts, A. E.; Hoover, Linn, Jr.; Pease, M. H., Jr., 1951, Geology of the eastern part of the Centralia-Chehalis coal district, Lewis and Thurston Counties, Washington: U.S. Geological Survey Coal Investigations Map C-8, 2 sheets, map scale 1:31,680.
Location: Lewis and Thurston Counties.
Includes map unit: Qls Landslide debris.

Spellman, H.; Bliton, W.; Wilson, J.; Holland, J., 1976, Sumas Mountain landslide chronology, Whatcom County, Washington abstract: Association of Engineering Geologists 19th Annual Meeting Guidebook, p. 31.
Location: Whatcom County.
Brief description of engineering geology study of large landslide near head of Swift Creek.

Stout, Martin Lindy, 1959, Geology of the south-central Cascade Mountains of Washington: University of Washington Doctor of Philosophy thesis, 183 p., 4 plates.
Location: Kittitas, King, and Yakima Counties.
Discussion and description of mudflows, p. 170-172. Geologic map includes map unit: Qm Mudflow remnants.
Abstract: Dissertation Abstracts, v. 20. no. 4, p. 1324-1959.

Stout, Martin Lindy, 1964, Geology of a part of the south-central Cascade Mountains, Washington: Geological Society of America Bulletin, v. 75, no. 4, p. 317-334.
Location: Kittitas County.
Geologic map includes map unit: Qm Mudflow. (No discussion in text.)

Stradling, Dale F., 1970, Landslides of the central Horse Heaven Hills, southern Washington [abstract]: American Quaternary Association meeting, 1st, p. 127.
Location: Benton and Yakima Counties.
Brief description.

Stradling, Dale F.; Winters, H. A., 1967, Some major landslides of the Yakima folds [abstract]: Association of the Pacific Coast Geographers Yearbook, v. 29, p. 158-159.
Location: Columbia Plateau.
Brief description.

Strickland, Helen, 1974, Natural disasters in the State of Washington; a directory of available information: Washington State Library, 183 p.
Location: Statewide.
Includes references to hundreds of books, maps, journal articles, newspaper accounts, etc. on landslides in Washington. Arranged by county.

Strong, Emory, 1967, Bridge of the Gods: Geological Society of the Oregon Country Geologic News Letter, v. 33, no. 6, p. 49-53.
Location: Columbia Gorge (Skamania County)
Discusses the Cascade landslides on the Columbia River at Bonneville.

Swanson, Donald A., 1964, The middle and late Cenozoic volcanic rocks of the Tieton River area, south-central Washington: Johns Hopkins University Doctor of Philosophy thesis, 334 p., 3 plates.
Location: Yakima County.
Discussion of landslides, p. 318. Geologic map includes map unit: Qls Landslide and talus colluvium.

Swanson, Donald A., 1966, Tieton volcano--A Miocene eruptive center in the southern Cascade Mountains, Washington: Geological Society of America Bulletin, v. 77, no. 11, p. 1293-1314.
Location: Yakima County.
Mentions landslide colluvium, p. 1299.

Swanson, Donald A., 1978, Geologic map of the Tieton River area, Yakima County, south-central Washington: U.S. Geological Survey Miscellaneous Field Studies Map MF-968, 1 sheet, map scale 1:48,000.
Location: Yakima County.
Includes map unit: Ql Landslide debris.

Swanson, Donald A.; Anderson, J. L.; Bentley, R. D.; Byerly, G. R.; Camp, V. E.; Gardner, J. N.; Wright, T. L., 1979, Reconnaissance geologic map of the Columbia River Basalt Group in eastern Washington and northern Idaho: U.S. Geological Survey Open-File Report 79-1363, 26 p., 12 plates, map scale 1:250,000.
Location: Columbia Basin.
Test consists of map legend and bibliography only. Maps include map unit: Qls Landslide deposits.

Swanston, Douglas N., 1978, Effect of geolgy on soil mass movement activity in the Pacific Northwest. in Youngberg, Chester T., ed., 1978, Forest soils and land use, proceedings of the fifth North American Forest Soils Conference: U.S. Forest Service, p. 89-115.
Location: Chelan County.
Includes photos of a debris avalanche-debris flow in the Entiat River Valley.

Swanston, Douglas N., 1980, Creep and earthflow erosion from undisturbed and management impacted slopes in the Coast Ranges and Cascade Mountains of the Pacific Northwest [abstract]: Geological Society of America Abstracts with Programs, v. 12, no. 3, p. 155.
Location: Cascade and Olympic Mountains.
Brief description of study of creep and earthflow rates in a variety of materials.

Tabor, Rowland W., 1971, Origin of ridge-top depressions by large-scale creep in the Olympic Mountains, Washington: Geological Society of America Bulletin, v. 82, no. 7, p. 1811-1822.
Location: Olympic Mountains.
Discusses landsliding and creep in the Olympic Mountains. Specific description of a slide area east of Mt. Olympus.

Tabor, Rowland W.; Cady, W. M., 1978, Geologic map of the Olympic Peninsula, Washington: U.S. Geological Survey Miscellaneous Investigations Series Map I-994, 2 sheets, map scale 1:125,000.
Location: Olympic Peninsula.
Includes map unit: Ql Landslide deposits.

Tabor, Rowland W.; Frizzell, V. A., Jr.; Whetten, John T.; Swanson, Donald A.; Byerly, G. R.; Booth, D. B.; Hetherington, M. J.; Waitt, R. B., Jr., 1980, Preliminary geologic map of the Chelan 1:100,000 quadrangle, Washington: U.S. Geological Survey Open-File Report 80-841, 46 p., 1 plate, map scale 1:100,000.
Location: Chelan and Douglas Counties.
Geologic map includes map units: Qls Landslide deposits; Qlsi Insipient blockslide.

Tabor, Rowland W.; Waitt, Richard B., Jr.; Frizzell, V. A.; Swanson, Donald A.; Byerly, G. R., 1977, Preliminary geologic map of the Wenatchee 1:100,000 quadrangle, Washington: U.S. Geological Survey Open-File Report 77-531, 24 p., 1 plate, map scale 1:100,000.
Location: Kittitas, Chelan, and Douglas Counties.
Geologic map includes map unit: Qls Landslide deposits. Map unit described p. 8.

Tabor, Rowland W.; Yeats, R. S.; Sorensen, M. L., 1972, Geologic map of the Mount Angeles quadrangle, Clallam and Jefferson Counties, Washington: U.S. Geological Survey Geologic Quadrangle Map GQ-958, 1 sheet, map scale 1:62,500.
Location: Clallam and Jefferson Counties.
Includes map units: Ql Landslide; Qt Talus.

Tengesdal, J. L.; Magleby, D. N.; Lockhart, A. C.; Burk, J. D., 1976, Preconstruction geologic report, volues 1 and 2, Main canal, stations 1+13.5 to 216+11, Bacon Siphon and Tunnel no. 2, Columbia Basin Project, Washington: U.S. Bureau of Reclamation, 2 vol.
Location: Grant County.
Geologic maps include map unit: T Talus.

Tharp, John A., 1961, Geology and ore deposits of the Red Bird mining claims, Whatcom County, Washington: University of Washington Bachelor of Science thesis, 49 p.
Location: Whatcom County.
Brief mention of landslides, p. 4. (Not shown on geologic map.)

Thorsen, Gerald W., 1970, Washington's landslide survey (a progress report). in Engineering Geology and Soils Engineering Symposium, 8th Annual, Pocatello, Idaho, 1970, Proceedings: Idaho Department of Highways p. 285-293.
Location: Washington State, focusing on Puget Lowland.
Description of the landslide file at the Division of Mines and Geology.

Thorsen, Gerald W.; Othberg, Kurt L., 1978, Forest slope stability pilot project upper Deschutes River, Washington: Washington Division of Geology and Earth Resources Open-File Report 79-16, 30 p., 4 plates.
Location: Thurston and Lewis Counties.
A pilot project for continuing forest slope stability projects, showing geomorphology (including landslides) of the Upper Deschutes River basin. (See also citations by Fiksdal and Brunengo, this bibliography.)

Trimble, D. E. 1963, Geology of Portland, Oregon and adjacent areas: U.S. Geological Survey Bulletin 1119 p., 1 plate, map scale 1:62,500.
Location: Clark and Skamania Counties (also adjacent areas of Oregon)
Discussion and description of landslide deposits, p. 72-73; of landslides, p. 79-81. Geologic map includes map unit: Qla Landslide deposits.

Tubbs, Donald W., 1974, Landslides and associated damage during early 1972 in part of west-central King County, Washington: U.S. Geological Survey Miscellaneous Investigations Series Map 1-852-B, 1 sheet, map scale 1:48,000.
Location: King County.
Discussion of location of landslides; climatic factors; human factors causing slides; types of slides.

Tubbs, Donald W., 1974, Landslides in Seattle: Washington Division of Geology and Earth Resources information Circular 52, 15 p., 1 plate.
Location: King County.
Geologic, climatic and human causes of landslides in the Seattle area, in light of the widespread landslides of 1972.

Tubbs, Donald W., 1975, Causes, mechanisms and prediction of landsliding in Seattle: University of Washington Doctor of Philosophy thesis, 88 p., 1 plate.
Location: King County.
Description and analysis of 200 dated slides occuring in Seattle over a 40-year period.
Abstract: Dissertation Abstracts International, v. 37, no. 2, p. 664B, 1976.

Tubbs, Donald W., 1976, Geologic and human factors affecting landslides in Seattle [abstract]: Geological Society of America Abstracts with Programs, v. 8, no. 6, p. 1147.
Location: King County.
Brief description.

Tubbs, Donald W., Dunne, T., 1977, Geologic hazards in Seattle: Geological Society of America, Annual Meeting 1977, Field Guide, 37 p.
Location: King County.
Includes description of landslide hazards.

Tubbs, Donald W.; Frederick, J. E., 1974, Two techniques for identifying areas of landslide hazard in Seattle: Northwest Science, 47th Annual Meeting Program and Abstracts, p. 34.
Location: King County.
Brief description.

Tuttle, Sherwood D., 1941, The geomorphology of Pelton Basin, Glacier Peak quadrangle, Washington: State College of Washington Master of Science thesis, 17 p.
Location: Chelan County.
Brief mention of landslides, plate 2.

U.S. Army Corps of Engineers, 1971, Bonneville Dam design memorandum no. 1, modification for peaking, supplement no. 7, Collins Point, Wn., slide study: (Portland, Ore.) U.S. Army Corps of Engineers, 1 vol.
Location: Skamania County.
Thorough and extensive engineering geology "... study conducted to determine the probable effect of peaking operations of Bonneville Lake on slide areas along the Washington shoreline and to definitely establish if danger of catastrophic slides exists". Extensive maps, photos, engineering diagrams, graphs, etc.

U.S. Army Corps of Engineers, 1978, Yakima Valley regional water management study; Volume IV, Geology and ground water: U.S. Army Corps of Engineers, 1 vol.
Location: Yakima County.
Description of colluvial deposits, p. 12. Geologic maps include map units: C Colluvial; ls Landslide.

U.S. Bureau of Indian Affairs; U.S. Geological Survey, 1981, Draft evmironmental impact statement, Mount Tolman project, Ferry County, Washington: U.S. Bureau of Indian Affairs, 350 p.
Location: Ferry County.
Geologic map includes map unit: Qls Landslide.

U.S. Bureau of Reclamation Columbia Basin Project, 1970, Evaluation of criteria for landslide analysis as presented in the U.S.G.S. Professional Paper no. 367: U.S. Bureau of Reclamation, 23 p.
Location: Lincoln, Ferry, and Stevens Counties (banks of Lake Roosevelt).
Application of Jone's slope analysis technique to 54 sites along Lake Roosevelt. Additional detail on Jackson Springs slide.

U.S. Environmental Protection Agency, 1975, Logging roads and protection of water quality: (Seattle) U.S. Environmental Protection Agency EPA 910/9-75-007, 312 p.
Location: statewide.
Discussion of logging impacts on slope stability: p. 21 (photos); 21-38; of mass wasting p. 192-195.

U.S. Federal Energy Regulatory Commission, 1982, Draft environmental impact statement, Cowlitz Falls project, FERC no. 2833-Washington: U.S. Federal Energy Regulatory Commission FERC/EIS-0032/D, 1 vol.
Location: Lewis County.
Discussion of potential bank sloughing along the new reservoir shoreline, p. 4-1 - 4-2.

U.S. Forest Service, 1966, Typical landscape characteristics and associated soil and water management problems on the Mt. Baker National Forest: U.S. Forest Service, 89 p.
Location: Whatcom County.
Detailed examination of landslumps in the Mt. Baker National Forest.

U.S. Geological Survey, 1962, Hydrologic studies in Washington: U.S. Geological Survey Professional Paper 450A, p. 50.
Location: Pierce County.
Brief description of 1961 mudflow below Emmons Glacier, Mt. Rainier.

U.S. Geological Survey, 1962, Urban geology: U.S. Geological Survey Professional Paper 450A, p. 104.
Location: King County.
Brief description of ancient landslides in Seattle.

University of Washington Department of Geological Sciences, 1970, The Nisqually delta: University of Washington Department of Geological Sciences, 88 p.
Location: Thurston and Pierce Counties.
Discussion of mudflows, debris flows, lahars, avalances, and submarine slumps in Nisqually River drainage.

University of Washington Department of Geological Sciences, 1972, The Alpine Lakes--Environmental geology: University of Washington Department of Geological Sciences Publications in Geological Sciences 2, 161 p., 2 plates.
Location: Chelan, King, and Kittitas Counties.
Mentions landslide dammed lake, p. 32.

University of Washington Department of Geology; Livingston, V. E., Jr., 1963, A geologic trip along Snoqualmie, Swauk, and Stevens Pass Highways, rev. ed.: Washington Division of Mines and Geology Information Circular 38, 51 p.
Location: Cascade Range.
Brief mentions of landslides along the Snoqualmie Pass Highway, p. 15, 20-21.

University of Washington Department of Oceanography, 1953, Puget Sound and approaches, a literature survey; Volume 1, Geography, climatology, hydrology: University of Washington Department of Oceanography, 130 p.
Location: Puget Sound and Puget Lowland.
Brief information on potential landslide areas along Puget Sound shoreline.

University of Washington Department of Oceanography, 1953, Puget Sound and approaches, a literature survey; Volume 2, Geology, volcanology, seismology, geomagnetism, geodesy, hydrography: University of Washington Department of Oceanography, 118 p.
Location: Puget Sound and Puget Lowland.
Description of submarine slumping and landsliding, p. 25 and Fig. 4-6 (Puyallup Delta).

Varnes, D. J., 1958, Landslide types and processes. in Eckel, E. B., ed., 1958, Landslides and engineering practice: National Academy of Sciences-National Research Council Publication 544 (Highway Research Board Special Report 29), p. 20-47.
Location: Northeast Washington.
Description of slides near Kettle Falls, Belvedere, and Lake Roosevelt.
Photos.

Veatch, Fred M., 1969, Analysis of a 24-year photographic record of Nisqually Glacier, Mount Rainier National Park, Washington: U.S. Geological Survey Professional Paper 631, 52 p., 1 plate.
Location: Pierce Co.
Photos and description of debris flow deposits from glacial outburst floods (jokulhlaups) p. 44-49.

Verhoogen, Jean, 1936, Geology of Mount St. Helens, Washington: University of California Publications in Geological Sciences, v. 24, no. 9, p. 263-302.
Location: Skamania County.
Description and discussion of mudflows, p. 274; of pyroclastic deposits, p. 274-277. Geologic map includes map units: Talus from central plug; Mudflows and other pyroclastic deposits (figures 2 and 4). (Also submitted to Stanford University as a Doctor of Philosophy thesis.)

Vehrs, Robert, 1968, A summary of the engineering geology of Grand Coulee Dam and related features. in McKee, Bates; Coombs, H., 1968, Guidebook to field trips, 1968 National Meeting: Association of Engineering Geologists, p. 18-26.
Location: Grand Coulee Dam area.
Discussion of landslide areas encountered during construction of Grand Coulee dam.

Vine, J. D., 1962, Preliminary geologic map of the Hobart and Maple Valley guadrangles, King County, Washington: Washington Division of Mines and Geology Geologic Map GM-1, 1 sheet, map scale 1:24,000.
Location: King County.
Includes map unit: Ql Landslide debris.

Vine, J. D., 1969, Geology and coal resources of the Cumberland, Hobart, and Maple Valley quadrangles, King County, Washington: U.S. Geological Survey Professional Paper 624, 67 p., 1 plate, map scale 1:24,000.
Location: King County.
Brief discussion and description of landslide debris, p. 31. Geologic map includes map unit: Ql Landslide debris.

Voight, B.; Janda, R.; Glicken, H., and others, 1980, Catastrophic rockslide-avalanche of May 18, 1980, Mount St. Helens volcano, Washington [abstract]: Geological Society of America Abstracts with Programs, v. 12, no. 7, p. 542.
Location: Skamania County.
Brief description of the rockslide-avalance released as part of the 08:32 May 18, 1980 eruption of Mount St. Helens.

Vonheeder, Ellis R., 1972, Origin and development of coastal landforms at Point Frances, Washington: Western Washington State College Master of Science thesis, 167 p.
Location: Whatcom County.
Discussion and description of seacliff recession by slumping, p. 23-28.

Wagner, Holly C., 1967, Preliminary geologic map of the Raymond quadrangle, Pacific County, Washington: U.S. Geological Survey Open-File Report 67-265, 1 sheet, map scale 1:62,500.
Location: Pacific County.
Includes map unit: Ql Landslide debris.

Waitt, Richard B., Jr., 1974, Landslide across a tongue of latest Pleistocene ice in West Fork Pasayten Valley, North Cascades, Washington [abstract]: Geological Society of America Abstracts with Programs, vol. 6, no. 3, p. 271.
Location: Okanogan County.
Brief description.

Waitt, Richard B., Jr., 1979, Late Cenozoic deposits, landforms, stratigraphy, and tectonism in Kittitas Valley, Washington: U.S. Geological Survey Professional Paper 1127, 18 p.
Location: Kittitas County.
Geologic map includes map unit: Ql Landslide deposits.

Waitt, Richard B., Jr., 1979, Rockslide-avalanche across distributary of Cordilleran ice in Pasayten Valley, northern Washington: Arctic and Alpine Research, v. 11, no. 1, p. 33-40.
Location: Okanogan County.
Discussion and description of rockslide avalanche.

Waldron, H. H., 1961, Geology of the Poverty Bay quadrangle, Washington: U.S. Geological Survey Geologic Quadrangle Map GQ-158, 1 sheet, map scale 1:24,000.
Location: King County.
Includes map unit: Qm Deposits of mass-wasting processes.

Waldron, H. H., 1962 Geology of the Des Moines quadrangle, Washington: U.S. Geological Survey Geologic Quadrangle Map GQ-159, 1 sheet, map scale 1:24,000.
Location: King County.
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Waldron, H. H., 1967, Geologic map of the Duwamish Head quadrangle, King and Kitsap Counties, Washington: U.S. Geological Survey Geologic Quadrangle Map GQ-706, 1 sheet, map scale 1:24,000.
Location: King and Kitsap Counties.
Includes map units: Qms Landslide deposits; Qmc Colluvial deposits.

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Location: King County.
Includes map unit: Ql Landslide deposits. Table "Generalized description of engineering properties of map units" includes "slope stability".

Walker, Fred C.; Irwin, W. H., 1954, Engineering problems in Columbia Basin varved clay: American Society of Civil Engineers Soil Mechanics and Foundations Division Proceedings, v. 80, Separate 515, p. 515.1-515.18.
Location: Columbia Plateau.
Thorough discussion of landslides and engineering geology problems with the "Nespelem clays" of the northern Columbia Plateau.

Walker, G. W., 1973, Reconnaissance geologic map of the Pendleton quadrangel, Oregon and Washington: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-727, 1 sheet map scale 1:250,000.
Location: Benton and Klickitat Counties.
Includes map units: Qls Landslide debris; Qfc Franglomerate, talus and colluvium.

Walters, K. L.; Kimmel, G. E., 1968, Ground-water occurrence and stratigraphy of unconsolidated deposits, central Pierce County, Washington: Washington Department of Water Resources Water Supply Bulletin 22, 428 p., 3 plates.
Location: Pierce County.
Discussion and description of the Osceola and Electron mudflows, p. 36.
Geologic map includes map units: Qem Electron mudflow; Qom Osceola mudflow.

Ward, T. E., 1968, Howard A. Hanson dam. in McKee, Bates; Coombs, H., 1968, Guidebook to field trips, 1968 National Meeting: Association of Engineering Geologists, p. 68-74.
Location: King County.
Discusses "huge rock mass that slide into valley" (in late Plesitocene) at the damsite.

Waring, G. A., 1913, Geology and water resources of a portion of south-central Washington: U.S. Geological Suvey Water-Supply Paper 316, 46 p.
Location: Yakima County.
Mentions the Simcoe and Toppenish landslides named by Russell, p. 23.

Warren, C. R., 1939, The Hood River conglomerate in southern central Washington: Yale University Doctor of Philosophy thesis, 285 p., 2 plates.
Location: Columbia Basin.
Brief discussion of the Simcoe landslide area and the Rattlesnake Hills landslide, p. 14 and 239. photo.

Warren, W. C., 1933, Age of certain andesites in the Mount Aix (Washington) quadrangle: Washington State College Master of Science thesis, 24 p.
Location: Kittitas and Yakima Counties.
Description of the Milk Creek mud flow, p. 17-18.

Warren, W. C.; Norbisrath, Hans; Grivetti, R. M.; Brown, S. P., 1945, Preliminary geologic map and brief description of the coal fields of King County, Washington: U.S. Geological Survey Open-File Report 45-17, 1 sheet, map scale 1:31,680.
Location: King County.
Includes map unit: QC Landslide.

Washington Department of Ecology, 1977, Coastal zone atlas of Washington; volume 1, Whatcom County: Washington Department of Ecology, 1 vol., map scale 1:24,000.
Location: Whatcom County.
Landslides are shown on geologic and on slope stability maps of 2,000-ft. wide coastal strip.

Washington Department of Ecology, 1978, Coastal zone atlas of Washington; volume 2, Skagit County: Washington Department of Ecology, 1 vol., maps scale 1:24,000.
Location: Skagit County.
Landslides are shown on geologic and on slope stability maps of 2,000-ft. wide coastal strip.

Washington Department of Ecology, 1978, Coastal zone atlas of Washington; volume 3, San Juan County: Washington Department of Ecology, 1 vol., map scale 1:24,000.
Location: San Juan County.
Landslides are shown on geologic and on slope stability maps of 2,000-ft. wide coastal strip.

Washington Department of Ecology, 1978, Coastal zone atlas of Washington; volume 11, Jefferson County: Washington Department of Ecology, 1 vol., map scale 1:24,000.
Location: Jefferson County.
Landslides are shown on geologic and on slope stability maps of 2,000-ft. wide coastal strip.

Washington Department of Ecology, 1978, Coastal zone atlas of Washington; volume 12, Clallam County: Washington Department of Ecology, 1 vol., map scale 1:24,000.
Location: Clallam County.
Landslides are shown on geologic and on slope stability maps of 2,000-ft. wide coastal strip.

Washington Department of Ecology, 1979, Coastal zone atlas of Washington; volume 4, Island County: Washington Department of Ecology, 1 vol., map scale 1:24,000.
Location: Island County.
Landslides are shown on geologic and on slope stability maps of 2,000-ft. wide coastal strip.

Washington Department of Ecology, 1979, Coastal zone atlas of Washington; volume 5, Snohomish County: Washington Department of Ecology, 1 vol., map scale 1:24,000.
Location: Snohomish County.
Landslides are shown on geologic and on slope stability maps of 2,000-ft. wide coastal strip.

Washington Department of Ecology, 1979, Coastal zone atlas of Washington; volume 6, King County: Washington Department of Ecology, 1 vol, map scale 1:24,000.
Location: King County.
Landslides are shown on geologic and on slope stability maps of 2,000-ft. wide coastal strip.

Washington Department of Ecology, 1979, Coastal zone atlas of Washington; volume 7, Pierce County: Washington Department of Ecology, 1 vol., map scale 1:24,000.
Location: Kitsap County.
Landslides are shown on geologic and on slope stability maps of 2,000-ft. wide coastal strip.

Washington Department of Ecology, 1980, Coastal zone atlas of Washington; volume 8, Thurston County: Washington Department of Ecology, 1 vol., map scale 1:24,000.
Location: Thurston County.
Landslides are shown on geologic and on slope stability maps of 2,000-ft. wide coastal strip.

Washington Department of Ecology, 1980, Coastal zone atlas of Washington; volume 9, Mason County: Washington Department of Ecology, 1 vol., map scale 1:24,000.
Location: Mason County.
Landslides are shown on geologic and on slope stability maps of 2,000-ft. wide coastal strip.

Washington Department of Ecology Task LSD Subcommittee, 1979, Section 208 Forest Practice Demonstration Project; logging slash and debris task LSD: Washington Department of Ecology Technical Report 79-5a-4, 38 p.
Location: Statewide.
An examination of logging clean-up practices as related to forest slope stability and subsequent stream turbidity.

Washington Division of Water Resources, 1960, Water resources of the Nooksack River basin and certain adjacent streams: Washington Division of Water Resources Water-Supply Bulletin 12, 187 p., 9 plates.
Location: Whatcom and Skagit Counties.
Geologic map includes map unit: Qls Recent landslides.

Waters, Aaron C., 1930, Geology of the southern half of the Chelan quadrangle, Washington: Yale University Doctor of Philosophy thesis, 256, p., 2 plates.
Location: Chelan and Douglas Counties.
Description and discussion of landslides and mudflows, p. 254-256, with photos. (Not shown on geologic map.)
Abstract: Dissertation Abstracts International, v. 30, no. 5, p. 2259B-2260B, 1969.

Waters, Aaron C., 1955, Geomorphology of south-central Washington, illustrated by the Yakima East quadrangle: Geological Society of America Bulletin, vol. 66, no. 6, p. 663-684.
Location: Yakima and Kittitas Counties.
Geologic map includes map unit: Qla Landslides.

Waters, Aaron C., 1973, The Columbia River Gorge; basalt stratigraphy, ancient lava dams, and landslide dams. in Oregon Department of Geology and Mineral Industries, 1973, Geologic field trips in northern Oregon and southern Washington: Oregon Department of Geology and Mineral Industries Bulletin 77, p. 133-162.
Location: Skamania County.
Detailed description and discussion of active landslides, debris flows and talus of the Columbia River Gorge. Geologic map includes map unit: Ql Landslides.

Weaver, Charles E., 1912, Geology and ore deposits of the Index mining district: Washington Geological Survey Bulletin 7, 96 p.
Location: King and Snohomish Counties.
Description of talus deposits, p. 49. (Not shown on geologic map.)

Webster, Gary D., 1979, Surficial geologic map of the Pullman quadrangle, Washington: Washington Division of Geology and Earth Resources Open-File Report 79-9, 1 sheet, map scale 1:250,000.
Location: Whitman, Garfield, Columbia and Asotin Counties.
Includes map units: Qc Colluvium; Qls Landslide deposits.

Wegner, D. E., 1969, Glacial geology of Seattle freeway: Washington State Department of Highways, 35 p.
Location: King County.
Geologic maps include map unit: Ql Landslide deposits.

Weigle, J. M.; Foxworthy, B. L., 1962, Geology and ground-water resources of west-central Lewis County, Washington: Washington Division of Water Resources Water Supply Bulletin 17, 248 p., 5 plates.
Location: Lewis County.
Discussion and description of landslides, p. 42-43. Geologic maps include map unit: Qls Landslide deposits.

Weigle, J. M.; Washburn, B. L., 1958, Geologic map of central part of area investigated in Lewis County: U.S. Geological Survey Open-File Report, 1 sheet, map scale 1:63,360.
Location: Lewis County.
Geologic map includes map unit: Qls Landlsides. (Note: Full study published as Weigle's Washington Division of Water Resources Water Supply Bulletin 17.)

Weissenborn, A. E.; Weis, P. L., 1976, Geologic map of the Mount Spokane quadrangle, Spokane County, Washington, and Kootenai and Bonner Counties, Idaho: U.S. Geological Survey Geologic Quadrangle Map GQ-1336, 1 sheet, map scale 1:62,500.
Location: Spokane County.
Includes map units: Qac Alluvium and colluvium; Qls Landslide deposits (Holocene).

Wells, R. E., 1979, Geologic map of the Cape Disappointment-Naselle River area, Pacific County, Washington: U.S. Geological Survey Open-File Report 79-389, 1 sheet, map scale 1:48,000.
Location: Pacific County.
Includes map unit: Qls Landslide deposits.

Wells, R. E., 1981, Geologic map of the eastern Willapa Hills, Cowlitz, Lewis, Pacific, and Wahkiakum Counties, Washington: U.S. Geological Survey Open-File Report 81-674, 1 sheet, map scale 1:62,500.
Location: Cowlitz, Lewis, Pacific and Wahkiakum Counties.
Includes map unit: Qls Landslide deposits.

West, D. O.; McCrumb, D. R.; Perkins, M. E., 1980, Mechanism and causal factors of landsliding in the Astoria Formation of the northern Willapa Hills, Washington [abstract]: Geological Society of America Abstracts with Programs, v. 12, no. 3, p. 159.
Location: Pacific County.
Brief description.

Western Geophysical Research, Inc., 1976, The 1872 earthquake; significant data and conclusions: Weston Geophysical Research, Inc., 1 vol.
Location: Pacific Northwest.
Exhaustive compilation of earthquake intensity reports, including newpapers. Includes accounts of seismically triggered landslides especially the Ribbon Cliffs slide.

Whetten, John T., 1967, Lake Chelan, Washington; bottom and sub-bottom topography: Limology and Oceanography, v. 12, no. 2, p. 253-259.
Location: Chelan County.
Mentions the Narrows slide area and its effects on the depth of Lake Chelan.

Whetten, John T., 1980, Preliminary bedrock geologic map of the Chiwaukum 4 NW quadrangle, Chiwaukum graben, Washington: U.S. Geological Survey Open-File Report 80-456, 6 p., 1 plate, map scale 1:24,000.
Location: Chelan County.
Includes map units: Qls Landslide deposits; Qcv Colluvium of volcanic clasts.

Whetten, John T., 1980, Preliminary bedrock geologic map of the Chiwaukum 4 SE quadrangle, Chiwaukum graben, Washington: U.S. Geological Survey Open-File Report 80-723, 5 p., 1 plate, map scale 1:24,000.
Location: Chelan County.
Includes map unit: Qls Landslide deposits.

Whetten, John T., 1980, Preliminary bedrock geologic map of the east half of the Chiwaukum 4 SW quadrangle, Chiwaukum graben, Washington: U.S. Geological Survey Open-File Report 80-616, 5 p., 1 plate, map scale 1:24,000.
Location: Chelan County.
Includes map unit: Qls Landslide deposits.

Whetten, John T.; Dethier, David P.; Carroll, Paul R., 1979, Preliminary geologic map of the Clear Lake NE quadrangle, Skagit County, Washington: U.S. Geological Survey Open-File Report 79-1468, 4 p., 2 plates, map scale 1:24,000.
Location: Skagit County.
Includes map units: Qt Talus; Qls Landslide.

Whetten, John T.; Dethier, David P.; Carroll, Paul R., 1980, Preliminary geologic map of the Clear Lake NW quadrangle, Skagit County, Washington: U.S. Geological Survey Open-File Report 80-247, 13 p., 2 plates, map scale 1:24,000.
Location: Skagit County.

Whetten, John T.; Laravie, J. A., 1976, Preliminary geologic map of the Chiwaukum 4 NE quadrangle, Chiwaukum graben, Washington: U.S. Geological Survey Miscellaneous Field Studies Map MF-794, 1 sheet, map scale 1:24,000.
Location: Chelan County.
Includes map unit: Qls Landslide deposit.

Whetten, John T.; Waitt, Richard B., Jr., 1978, Preliminary geologic map of the Cashmere quadrangle, Chiwaukum lowland, Washington: U.S. Geological Survey Miscellaneous Field Studies Map MF-908, 1 sheet, map scale 1:24,000.
Location: Chelan County.
Includes map units: Qt Talus; Qls Landslide deposit; Qc Colluvium; Qcp Colluvium of porphyry clasts; Qms Mass-wastage deposits.

Wilkinson, W. D.; Allen, J. E., 1959, Picture Gorge to Portland via Arlington (Columbia Gorge section). in Wilkinson, W. D., comp., 1959, Field guidebook; College Teachers Conference in Geology, Oregon State College, June 15-27, 1959: Oregon Department of Geology and Mineral Industries Bulletin 50, p. 117-135.
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