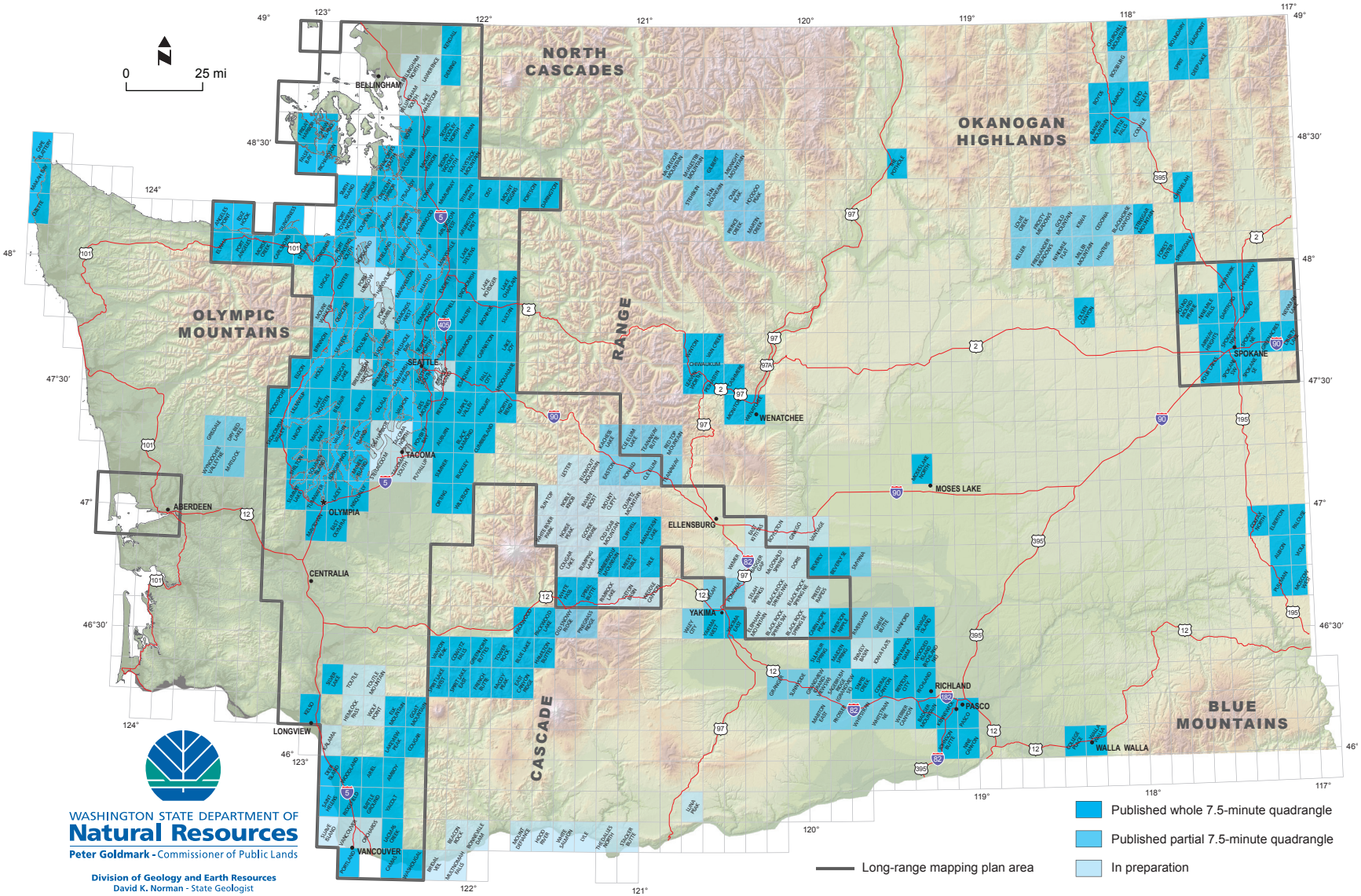
Published and in preparation geologic mapping of 7.5-minute (1:24,000-scale) quadrangles

December, 2014



WASHINGTON STATE DEPARTMENT OF
Natural Resources
Peter Goldmark - Commissioner of Public Lands

Division of Geology and Earth Resources
David K. Norman - State Geologist

PUBLISHED AND IN-PROGRESS 7.5-MINUTE QUADRANGLES IN WASHINGTON BY NAME

The list below is in alphabetical order by quadrangle name and gives abbreviated versions of author(s), year published, publisher, series, and series number. See references by author below for a complete citation. Quadrangle names in blue have links to the online maps. All other published maps may be consulted at the Washington Geology Library.

* * * * *

GLOSSARY

[brackets] – indicate alternate quad name, explanatory material, or URL

(parentheses) – indicate partial quadrangle or expected year of publication

B – DGER or USGS Bulletin

DGER – Washington Division of Geology and Earth Resources

DOGAMI – Oregon Department of Geology and Mineral Industries

GM – DGER or IGS Geologic Map

GMS – Geological Map Series

GQ – USGS Geologic Quadrangle Map

I – USGS Miscellaneous Geologic Investigations Map

IGS – Idaho Geological Survey

in prep. – in preparation; field work and map construction in progress; expected year of publication given where known

in press – accepted for publication; editing and cartography in progress; expected year of publication given where known

mapped – draft map finished, but not in preparation for publication

MF – USGS Miscellaneous Field Studies Map

MS – DGER Map Series

OFR – DGER or USGS Open File Report

PP – USGS Professional Paper

RHO – Rockwell Hanford Operations

SIM – USGS Scientific Investigations Map

TR – IGS Technical Report

UI – University of Idaho

unpub. – unpublished

USGS – U.S. Geological Survey

UW – University of Washington

* * * * *

Adams Mountain (partial): Smith, 1991, DGER OFR 91-4 [Ninemile Creek–Wilmont Creek–Hunters Creek]

Airway Heights: Derkey and others, 2004, DGER OFR 2004-1

Albion: Bush and others, 2005, University of Idaho?

Alger: Dragovich and others, 1998, DGER OFR 98-5

Amboy: Evarts, 2005, USGS SIM 2885

Anacortes South: Dragovich and others, 2000, DGER OFR 2000-6

Angeles Point: Polenz and others, 2004, DGER OFR 2004-14

Ariel: Evarts, 2004, USGS SIM-2826

Arlington East: Minard, 1980, USGS OFR 80-460

Arlington East: Minard, 1985, USGS MF-1739

Arlington West: Minard, 1980, USGS OFR 80-461

Arlington West: Minard, 1985, USGS MF-1740

Auburn: Mullineaux, 1961, USGS OFR-61-110

Auburn: Mullineaux, 1965, USGS GQ-406

Badger Gap: Powell, *in prep.*, DGER [mapping nearly completed]

Badger Mountain: Geoscience Research Consultants, 1978, RHO-BWI-C-25 [SW Pasco Basin]

Bainbridge Island: Haugerud, 2005, USGS OFR 2005-1387

Bangs Mountain: Wilson, 1981, USGS OFR 81-581

Bangs Mountain: Kiver and Stradling, 1987, U.S. Bureau of Reclamation

Battle Ground: Howard, 2002, USGS MF-2395

Beacon Rock: *in prep.*, USGS

Belfair: Polenz and others, 2009, DGER OFR 2009-7

Bellevue South 7.5′ x 15′ quadrangle, east half of the [Issaquah]: Booth and others, 2012, USGS SIM 3211

Bellingham North: Haugerud, *in prep*., USGS

Bellingham South: Haugerud, *in prep.*, USGS

Benton City: Geoscience Research Consultants, 1978, RHO-BWI-C-25 [SW Pasco Basin]

Beverly: Reidel, 1978, RHO-BWI-LD-4 [Saddle Mountains]

Beverly: Powell, *in prep.*, DGER [mapping of west half of quad nearly completed]

Beverly SE: Reidel, 1978, RHO-BWI-LD-4 [Saddle Mountains]

Biggs Junction: Anderson?, *in prep.*, USGS

Black Diamond: Mullineaux, 1961, USGS OFR-61-110

Black Diamond: Mullineaux, 1965, USGS GQ-407

Black Rock Spring: Powell, *in prep.*, DGER [mapping partially completed]

Black Rock Spring NE: Powell, *in prep.*, DGER [mapping partially completed]

Black Rock Spring NW: Powell, *in prep.*, DGER [mapping partially completed]

Black Rock Spring SW: Powell, *in prep.*, DGER [mapping partially completed]

Blackhorse Canyon (partial): Smith, 1991, DGER OFR 91-4 [Ninemile Creek–Wilmont Creek–Hunters Creek]

Blowout Mountain: Hammond, *mapped*, DGER

Blue Lake: Swanson, 1993, USGS OFR 93-297

Bonneville Dam: *in prep.*, USGS

Bossburg: Kiver and Stradling, 1987, U.S. Bureau of Reclamation.

Bothell (partial): Capps and others, 1973, DGER OFR 73-1 [southern Snohomish County]

Bothell: Minard, 1981, USGS OFR 81-106

Bothell: Minard, 1985, USGS MF-1747

Bothell: Troost and Booth, *in prep.*, USGS MFS

Boundary (partial): Yates, 1961, USGS OFR 61-175 [Map I-412]

Bow: Dragovich and others, 1998, DGER OFR 98-5

Boyds: Wilson, 1980, USGS OFR 80-983

Boyds: Kiver and Stradling, 1987, U.S. Bureau of Reclamation

Boylston: Powell, *in prep.*, DGER [mapping nearly completed]

Bremerton East (partial): Haugerud, 2005, USGS OFR 2005-1387 [Bainbridge Island]

Bremerton East: Haeussler, *in prep.*, USGS

Bremerton West: Haeussler, *in prep*., USGS

Bridal Veil: *in prep.*, USGS

Brinnon: Carson, 1976, DGER OFR 76-3

Brinnon: Polenz and others, 2012, DGER MS 2012-02

Buckley: Crandell and Gard, 1959, USGS GQ-125

Buckley: Crandell, 1963, USGS PP 388-A [Lake Tapps 15' quadrangle]

Buckley (partial): Gard, 1968, USGS PP 388-B [Lake Tapps 15' quadrangle]

Bumping Lake: Hammond, *mapped*, DGER

Burley: Polenz and others, 2009, DGER OFR 2009-8

Cairn Hope Peak: Goff, 1981, RHO-BWI C-21 [eastern Umtanum Ridge]

Cairn Hope Peak: Powell, *in prep.*, DGER

Camano: Polenz and others, 2009, DGER GM-68

Camas: Evarts and O'Connor, 2008, USGS SIM 3017

Cape Flattery: Snavely and others, 1989, USGS OFR OF-89-141 [Cape Flattery and Cape Alava]

Carlsborg: Othberg and Palmer, 1979, DGER OFR 79-20

Carlsborg: Schasse and Wegmann, 2000, DGER OFR 2000-7

Carnation: Dragovich and others, 2010, DGER OFR 2010-1

Cashmere: Whetten and Waitt, 1978, USGS MF-908

Cedonia (partial): Smith, 1991, DGER OFR 91-4 [Ninemile Creek–Wilmont Creek–Hunters Creek]

Center (partial): Hanson, 1976, DGER OFR 76-20 [Uncas–Port Ludlow]

Center (partial): Gayer, 1976, DGER OFR 76-21 [northeastern Jefferson County]

Center: Polenz and others, 2014, DGER MS 2014-02

Chattaroy: Hamilton and Derkey, 2005, DGER GM-55

Chewelah (partial): Clark and Miller, 1965, USGS OFR OF-65-32

Chewelah: Carrara, 1990, USGS MF-2141

Churchill Mountain: Fox, 1981, USGS OFR 81-169

Cle Elum (partial): Walker, 1980, DGER OFR 80-1 [Roslyn–Cle Elum]

Cle Elum Lake (partial): Walker, 1980, DGER OFR 80-1 [Roslyn–Cle Elum]

Cliffdell: Hammond, 2010, DGER GM-76

Colfax North: Bush and others, 2005, UI OFR?

College Place: Derkey and others, 2006, DGER GM-62

Colville: Mills and others, 1985, DGER OFR 85-7

Conway: Dragovich and others, 2002, DGER OFR 2002-5

Corral Canyon: Geoscience Research Consultants, 1978, RHO-BWI-C-25 [SW Pasco Basin]

Corral Canyon (partial): Hagood, 1986, RHO-BW-SA-344 P [Horse Heaven Hills]

Cougar: Evarts and Ashley, 1990, USGS OFR 90-631

Cougar Lake: Hammond, *mapped*, DGER

Coupeville: Polenz and others, 2005, DGER GM-58

Cowlitz Falls: Evarts and Ashley, 1993, USGS GQ-1682

Crescent Harbor: Dragovich and others, 2005, DGER GM-59

Cumberland: Gower and Wanek, 1963, DGER GM-2

Cumberland: Vine, 1969, USGS PP 624

The Dalles North: *in prep.*, USGS

Darrington: Dragovich and others, 2002, DGER OFR 2002-7

Dartford: Derkey and others, 1998, DGER OFR 98-6

Deep Lake: Yates and Ford, 1960, USGS MF-237

Deer Island: Evarts, 2002, USGS MF-2392

Deer Park: Derkey and others, 2005, DGER GM-54

Deming: Dragovich and others, 1997, DGER OFR 97-2

Des Moines: Waldron, 1962, USGS GQ-159

Des Moines: Booth and Waldron, 2004, USGS SIM-2855

Doris: Powell, *in prep.*, DGER [mapping nearly completed]

Dry Bed Lakes (partial): Rau, 1966, DGER B53 [Satsop River]

Dungeness: Othberg and Palmer, 1979, DGER OFR 79-17

Duwamish Head: Waldron, 1967, USGS GQ-706

Duwamish Head (partial): Booth, 1991, USGS MF-2161 [Vashon and Maury Islands]

Duwamish Head (partial): Haugerud, 2005, USGS OFR 2005-1387 [Bainbridge Island]

Duwamish Head: Troost and others, 2005, USGS OFR 2005-1252 [Seattle]

East Canyon Ridge: Swanson, 1994, USGS OFR 94-591

East Kittitas: Powell, *in prep.*, DGER [mapping nearly completed]

East Olympia: Walsh and Logan, 2005, DGER GM-56

Easton (partial): Walker, 1980, DGER OFR 80-1 [Roslyn–Cle Elum]

Easton: Hammond, *mapped*, DGER

Echo Valley: Mills and others, 1985, DGER OFR 85-7

Ediz Hook: Schasse and others, 2004, DGER OFR 2004-13

Edmonds East: Minard, 1983, USGS MF-1541

Edmonds East: Smith, 1975, DGER GM-14

Edmonds East: Cox, *in prep.*, USGS

Edmonds West: Smith, 1975, DGER GM-14

Edmonds West (part): Minard, 1983, USGS MF-1541

Edmonds West: Cox, *in prep*., USGS

Elberton: Bush and others, 2005, UI OFR?

Eldon: Contreras and others, 2012, DGER MS 2012-03

Elephant Mountain: Powell, *proposed*, DGER [update of 1:48,000-scale mapping]

Elk Mountain: Evarts and Ashley, 1992, USGS OFR 92-362

Elwha: Polenz and others, 2004, DGER OFR 2004-14

Emerson Nipple: Goff, 1981, RHO-BWI C-21 [eastern Umtanum Ridge]

Everett: Smith, 1976, DGER GM-20

Everett: Minard, 1981, USGS OFR 81-248

Everett: Minard, 1985, USGS MF-1748

Fall City: Dragovich and others, 2007, DGER GM-67

False Bay: Dethier and others, 1996, DGER OFR 96-7

Forest Center: McLucas, 1980, DGER OFR 80-3

Fortson: Dragovich and others, 2002, DGER OFR 2002-6

Four Lakes: Hamilton and others, 2004, DGER OFR 2004-2

Four Mound Prairie: Derkey and Hamilton, 2007, DGER GM-66

Fox Island: Logan and others, 2006, DGER GM-63

Freeland: Polenz and others, 2006, DGER GM-64

Fiedlander Meadows (partial): Smith, 1991, DGER OFR 91-4 [Ninemile Creek–Wilmont Creek–Hunters Creek]

French Butte: Swanson, 1989, USGS OFR 89-309

Friday Harbor: Dethier and others, 1996, DGER OFR 96-7

Frosty Meadows (partial): Smith, 1991, DGER OFR 91-4 [Ninemile Creek–Wilmont Creek–Hunters Creek]

Gable Butte (partial): Fecht, 1978, RHO-BWI-LD-5 [Gable Mountain–Gable Butte area]

Gardiner (partial): Gayer, 1976, DGER OFR 76-21 [northeastern Jefferson County]

Gardiner (partial): Othberg and Palmer, 1979, DGER OFR 79-19

Gig Harbor (partial): Smith, 1977, DGER OFR 77-9 [Tacoma]

Gig Harbor (partial): Booth, 1991, USGS MF-2161 [Vashon and Maury Islands]

Gig Harbor (partial): Haugerud, 2005, USGS OFR 2005-1387 [Vashon and Maury Islands]

Gig Harbor: Booth and others, *in prep.*, USGS MF

Gilbert: Miller, 1987, DGER OFR 87-17

Gilbert: Dragovich and others, 1997, DGER GM-46

Ginkgo: Powell, *in prep.*, DGER [mapping nearly completed]

Goat Mountain: Evarts and Ashley, 1990, USGS OFR 90-632

Gold Mountain (partial): Smith, 1991, DGER OFR 91-4 [Ninemile Creek–Wilmont Creek–Hunters Creek]

Goose Prairie: Hammond, *mapped*, DGER

Grandview (partial): Campbell, 1977, DGER OFR 77-8 [Snipes Mountain]

Grandview [Grandview SW]: Geoscience Research Consultants, 1978, RHO-BWI-C-25 [SW Pasco Basin]

Grandview SE [Sagebrush Ridge]: Geoscience Research Consultants, 1978, RHO-BWI-C-25 [SW Pasco Basin]

Grandview SW [Grandview]: Geoscience Research Consultants, 1978, RHO-BWI-C-25 [SW Pasco Basin]

Granger (partial): Campbell, 1977, DGER OFR 77-8 [Snipes Mountain]

Greenacres: Derkey and others, 2004, DGER OFR 2004-11

Greenhorn Buttes: Swanson, 1989, USGS OFR 89-309

Grisdale (partial): Rau, 1966, DGER B53 [Satsop River]

Hamilton Buttes: Swanson, 1996, USGS OFR 96-16

Hanford (partial): Fecht, 1978, RHO-BWI-LD-5 [Gable Mountain–Gable Butte area]

Hansville (northern part): Polenz and others, 2006, DGER GM-64

Hansville: Polenz and others. (*in prep*) DGER

Haystack Mountain [Clear Lake NE quadrangle]: Whetten and others, 1979, USGS OFR 79-1468

Hemlock Pass: *mapped*, USGS

Hobart: Vine, 1962, DGER GM-1

Hobart: Rosengreen, 1965, UW M.S. thesis

Hobart: Vine, 1969, USGS PP 624

Holly: Contreras and others, 2012, DGER OFR 2011-5

Hood River: *in prep.*, USGS

Hoodoo Peak: Miller, 1987, DGER OFR 87-17

Hoodsport: Polenz and others, 2012, DGER OFR 2011-3

Horn Rapids Dam: Geoscience Research Consultants, 1978, RHO-BWI-C-25 [SW Pasco Basin]

Hunters (partial): Smith, 1991, DGER OFR 91-4 [Ninemile Creek–Wilmont Creek–Hunters Creek]

Iowa Flats: Geoscience Research Consultants, 1978, RHO-BWI-C-25 [SW Pasco Basin]

Iowa Flats: Reidel, *in prep.*, Pacific Northwest National Laboratory

Issaquah: Booth and Minard, 1992, USGS MF-2206

Issaquah [east half of the Bellevue South 7.5′ x 15′ quadrangle]: Booth and others, 2012, USGS SIM 3211

Johnson Butte: Jones and Landon, 1978, RHO-BWI-LD-6

Juniper Beach: Schasse and others, 2009, DGER GM-70

Kachess Lake (partial): Walker, 1980, DGER OFR 80-1 [Roslyn–Cle Elum]

Kalama: *in prep.*, USGS

Keller (partial): Smith, 1991, DGER OFR 91-4 [Ninemile Creek–Wilmont Creek–Hunters Creek]

Kelso: Livingston, 1966, DGER Bulletin 54

Kendall: Dragovich and others, 1997, DGER OFR 97-2

Kennewick: Jones and Landon, 1978, RHO-BWI-LD-6

Kettle Falls: Mills, 1985, DGER GM-32

Kewa (partial): Smith, 1991, DGER OFR 91-4 [Ninemile Creek–Wilmont Creek–Hunters Creek]

Kirkland: Minard, 1983, USGS MF-1543

Kirkland: Booth and Troost, *in prep.*, USGS SIM

*Kittitas: Powell, *in prep.*, DGER [mapping of southwest portion of quad nearly completed]

La Conner: Artim and Wunder, DGER OFR 76-1

La Conner: Dragovich and others, 2000, DGER OFR 2000-6

Lacamas Creek: Evarts, 2006, USGS SIM 2924

Lacey: Logan and others, 2003, DGER OFR 2003-9

Lake Chaplain: Dragovich and others, 2014, DGER MS 2014-01

Lake Joy: Dragovich and others, 2012, DGER MS 2012-01

Lake Roesiger: Dragovich and others. (*in prep*) DGER

Lake Stevens: Minard, 1980, USGS OFR 80-463

Lake Stevens: Minard, 1985, USGS MF-1742

Lake Whatcom: Haugerud, *in prep.*, USGS

Lake Wooten: O'Neal, 2004, UW unpub. map

Lake Wooten: Derkey and others, 2009, DGER OFR 2009-5

Lakeview Peak: Evarts and Ashley, 1991, USGS OFR 91-289

Langley: Schasse and others, 2009, DGER GM-69

Lawrence: Haugerud, *in prep.*, USGS

Leadpoint: Yates and Robertson, 1958, USGS MF-137

Leavenworth [Chiwaukum 4 SW]: Whetten, 1980, USGS OFR 80-616

Lester: Hammond, *mapped*, DGER

Liberty Lake: Derkey and others, 2004, DGER OFR 2004-12

Lilliwaup: O'Neal, 2004, UW unpub. map

Lilliwaup: Contreras and others, 2010, DGER OFR 2010-4

Lofall (partial): Hanson, 1976, DGER OFR 76-20

Lofall: Contreras and others, 2013, DGER MS 2013-03

Longbranch: Logan and others, 2003, DGER OFR 2003-21

Louie Creek (partial): Smith, 1991, DGER OFR 91-4 [Ninemile Creek–Wilmont Creek–Hunters Creek]

Luna Butte: *in prep.*, USGS

Lyle: *in prep.*, USGS

Lyman: Dragovich and others, 1999, DGER OFR 99-3

Mabton East (partial): Hagood, 1986, RHO-BW-SA-344 P [Horse Heaven Hills]

Maiden Spring: Geoscience Research Consultants, 1978, RHO-BWI-C-25 [SW Pasco Basin]

Makah Bay: Snavely and others, 1989, USGS OFR OF-89-141 [Cape Flattery and Cape Alava]

Maltby (partial): Capps and others, 1973, DGER OFR 73-1 [southern Snohomish County]

Maltby: Minard, 1981, USGS OFR 81-100

Maltby: Minard, 1985, USGS MF-1746

Manastash Lake: Hammond, 2010, DGER GM-76

Maple Valley: Vine, 1962, DGER GM-1

Maple Valley: Rosengreen, 1965, UW M.S. thesis

Maple Valley: Vine, 1969, USGS PP 624

Maple Valley: Booth, 1995, USGS MF-2297

Marcus: Mills, 1985, DGER GM-32

Marcus: Kiver and Stradling, 1987, U.S. Bureau of Reclamation

Martin Peak: Miller, 1987, DGER OFR 87-17

Marysville: Minard, 1980, USGS OFR 80-464

Marysville: Minard, 1985, USGS MF-1743

Mason Lake: Derkey and others, 2009, DGER OFR 2009-6

Matlock (partial): Rau, 1966, DGER B53 [Satsop River]

Maxwelton: Dethier and others, 1982, USGS OFR 82-192

Maxwelton: Cox, *in prep.*, USGS

Maytown: Logan and others, 2009, DGER GM-72

McAlester Mountain: Miller, 1987, DGER OFR 87-17

McCoy Peak: Swanson, 1992, USGS OFR 92-336

McDonald Spring: Powell, *in prep.*, DGER [mapping nearly completed]

McGregor Mountain: Miller, 1987, DGER OFR 87-17

McMurray [Clear Lake SW]: Dethier and Whetten, 1980, USGS OFR 80-825

McMurray: Dragovich and DeOme, 2006, DGER GM-61

McNeil Island: Walsh and others, 2003, DGER OFR 2003-22

Mead: Derkey, 1997, DGER OFR 97-3

Meeks Table: Hammond, 2009, DGER GM-74

Mercer Island: Booth and Troost, *in prep.*, USGS SIM

Midnight Mountain: Miller, 1987, DGER OFR 87-17

Miller Mountain (partial): Smith, 1991, DGER OFR 91-4 [Ninemile Creek–Wilmont Creek–Hunters Creek]

Monitor: Gresens, 1983, DGER Bulletin 75

Monroe (partial): Capps and others, 1973, DGER OFR 73-1 [southern Snohomish County]

Monroe: Dragovich and others, 2011, DGER OFR 2011-1

Morse Creek: Schasse and Polenz, 2002, DGER OFR 2002-8

Moscow West: Bush and others, 1998, IGS GM-23

Moses Lake North: Grolier and Foxworthy, 1961, USGS I-330

Mount Clifty: Hammond, *mapped*, DGER

Mount Defiance: *in prep.*, USGS

Mount Higgins: Dragovich and others, 2003, DGER OFR 2003-12

Mount Vernon: Dethier and Whetten, USGS OFR 81-105

Mount Walker (partial): Hanson, 1976, DGER OFR 76-20 [Uncas–Port Ludlow]

Mukilteo: Smith, 1976, DGER GM-20

Mukilteo: Minard, 1982, USGS MF-1438

Mukilteo: Cox and Molinari, *in prep.*, USGS

Multnomah Falls: USGS, *mapped*, USGS

Newman Lake: Derkey and others, 2004, DGER OFR 2004-12

Nile (western two-thirds): Hammond, 2009, DGER GM-74

Nine Canyon: Jones and Landon, 1978, RHO-BWI-LD-6

Nine Mile Falls: Derkey and others, 2003, DGER OFR 2003-8

Ninemile Flat (partial): Smith, 1991, DGER OFR 91-4 [Ninemile Creek–Wilmont Creek–Hunters Creek]

Nisqually: Walsh and others, 2003, DGER OFR 2003-10

Noble Knob: Hammond, *mapped*, DGER

Nordland (partial): Gayer, 1976, DGER OFR 76-21 [northeastern Jefferson County]

Norse Peak: Hammond, *mapped*, DGER

North Bend: Dragovich and others, 2009, DGER GM-73

Oak Harbor: Dragovich and others, 2005, DGER GM-59

Ollala (partial): Booth, 1991, USGS MF-2161 [Vashon and Maury Islands]

Olalla: Booth and Troost, 2005, USGS SIM-2902

Old Scab Mountain: Hammond, *mapped*, DGER

Olsen Canyon: Derkey and Hamilton, 2009, DGER GM-71

Orchards: Evarts and O'Connor, *in prep.*, USGS

Orting: Crandell, 1961, USGS OFR 61-35

Orting: Crandell, 1963, USGS PP 388-A [Lake Tapps 15' quadrangle]

Orting (partial): Gard, 1968, USGS PP 388-B [Lake Tapps 15' quadrangle]

Oso: Dragovich and others, 2003, DGER OFR 2003-11

Oval Peak: Miller, 1987, DGER OFR 87-17

Ozette: Snavely and others, 1989, USGS OFR OF-89-141 [Cape Flattery and Cape Alava]

Packwood: Swanson and others, 1997, USGS OFR 97-157

Packwood Lake: Swanson, 1996, USGS OFR 96-704

Palouse: Duncan and Bush, 1999, IGS TR 99-7

Palouse: Bush and others, 2005, University of Idaho?

Pasco: Jones and Landon, 1978, RHO-BWI-LD-6

Peshastin [Chiwaukum 4 SE]: Whetten, 1980, USGS OFR 80-723

Pomona (partial): Campbell, 1976, DGER OFR 76-11 [Yakima]

Pomona (partial): Campbell, 1977, DGER OFR 77-7 [Selah]

Pomona: Powell, *proposed*, DGER [update of 1:48,000-scale mapping]

Port Angeles: Schasse and others, 2004, DGER OFR 2004-13

Port Gamble: Cox, *in prep.*, USGS

Port Ludlow (partial): Hanson, 1976, DGER OFR 76-20 [Uncas–Port Ludlow]

Port Ludlow (partial): Gayer, 1976, DGER OFR 76-21 [northeastern Jefferson County]

Port Ludlow: Polenz and others. (*in prep*) DGER

Port Townsend North (partial): Gayer, 1976, DGER OFR 76-21 [northeastern Jefferson County]

Port Townsend North (partial): Polenz and others, 2005, DGER GM-58

Port Townsend North (partial): Schasse and Slaughter, 2005, DGER GM-57

Port Townsend South (partial): Gayer, 1976, DGER OFR 76-21 [northeastern Jefferson County]

Port Townsend South: Schasse and Slaughter, 2005, DGER GM-57

Portland: Beeson and others, 1991, GMS-75

Pothole: Minard, 1985, USGS MF-1680.

Poulsbo: Polenz and others, 2013, DGER MS 2013-02

Poverty Bay: Waldron, 1961, USGS GQ-158

Poverty Bay (Pierce Co. portion): Smith, 1976, DGER OFR 76-9 [northeast Tacoma]

Poverty Bay (partial): Smith, 1977, DGER OFR 77-9 [Tacoma]

Poverty Bay: Booth and others, 2004, USGS SIM 2854

Priest Rapids: Goff, 1981, RHO-BWI C-21 [eastern Umtanum Ridge]

Priest Rapids: Powell, *in prep.*, DGER [mapping partially completed]

Prince Creek: Miller, 1987, DGER OFR 87-17

Prosser (partial): Hagood, 1986, RHO-BW-SA-344 P [Horse Heaven Hills]

Pullman: Bush and Garwood, 2005, UI?

Puyallup: Troost, *in press*, USGS OFR

Quartz Mountain: Hammond, *mapped*, DGER

Quilcene (partial): Hanson, 1976, DGER OFR 76-20 [Uncas–Port Ludlow]

Quilcene: Contreras and others, 2014, DGER MS 2014-03

Raven Roost: Hammond, *mapped*, DGER

Redmond: Minard and Booth, 1988, USGS MF-2016

Redmond: Booth and Troost, *in prep.*, USGS SIM

Red Top Mountain (partial): Walker, 1980, DGER OFR 80-1 [Roslyn–Cle Elum]

Renton: Mullineaux, 1961, USGS OFR-61-110

Renton: Mullineaux, 1965, USGS GQ-405

Richardson: Dethier and others, 1996, DGER OFR 96-7

Richland: Geoscience Research Consultants, 1978, RHO-BWI-C-25 [SW Pasco Basin]

Richland NE: Geoscience Research Consultants, 1978, RHO-BWI-C-25 [SW Pasco Basin]

Ridgefield: Evarts, 2004, USGS SIM 2844

Rimrock Lake (northern portion): Hammond, *in prep.*, DGER GM?

Riverland (partial): Fecht, 1978, RHO-BWI-LD-5 [Gable Mountain–Gable Butte area]

Riverland (partial): Goff, 1981, RHO-BWI C-21 [eastern Umtanum Ridge]

Ronald (partial): Walker, 1980, DGER OFR 80-1 [Roslyn–Cle Elum]

Sagebrush Ridge [Grandview SE]: Geoscience Research Consultants, 1978, RHO-BWI-C-25 [SW Pasco Basin]

Saint Helens: Evarts, 2004, USGS SIM-2834

Satus Pass: Anderson?, *in prep.*, USGS

Sauvie Island: *in prep.*, USGS

Savage Island: Fecht, 1978, RHO-BWI-LD-5 [Gable Mountain–Gable Butte area]

Seabeck: Polenz and others, 2013, DGER MS 2012-02

Seattle NE [Seattle North]: Troost and others, 2009, USGS SIM 3065 [northeastern Seattle]

Seattle NW [Shilshole Bay]: Booth and others, 2005, USGS SIM-2903 [northwestern Seattle]

Seattle North: Troost and others, 2005, USGS OFR 2005-1252 [Seattle]

Seattle North: Booth and others, 2009, USGS SIM 3065 [northeastern Seattle]

Seattle South: Troost and others, 2005, USGS OFR 2005-1252 [Seattle]

Sedro-Woolley North: Dragovich and others, 1999, DGER OFR 99-3

Sedro-Woolley South [Clear Lake NW]: Whetten and others, 1980, USGS OFR 80-247

Selah (partial): Campbell, 1976, DGER OFR 76-11 [Yakima]

Selah (partial): Campbell, 1977, DGER OFR 77-7 [Selah]

Selah Springs: Powell, *proposed*, DG ER [update of 1:48,000-scale mapping]

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Sequim: Schasse and Logan, 1998, DGER OFR 98-7

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