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Quaternary Fault and Fold Database of the United States

As of January 12, 2017, the USGS maintains a limited number of metadata fields that characterize the Quaternary faults and folds of the United States. For the most up-to-date information, please refer to the interactive fault map.

Olympia structure (Class B) No. 547

Last Review Date: 2017-08-18

citation for this record: **, compiler, 2017, Fault number 547, Olympia structure, in Quaternary fault and fold database of the United States: U.S. Geological Survey website, https://earthquakes.usgs.gov/hazards/qfaults, accessed 12/14/2020 03:05 PM.**

Synopsis	
Name comments	
County(s) and State(s)	THURSTON COUNTY, WASHINGTON MASON COUNTY, WASHINGTON
Physiographic province(s)	PACIFIC BORDER
Reliability of location	Poor Compiled at 1: scale. *Comments:* Location of fault from GER_Seismogenic_WGS84 (http://www.dnr.wa.gov/publications/ger_portal_seismogenic_features.zip, downloaded 05/23/2016) attributed to Brocher and others (2001 #4718), Blakely and others (2009 #7609), Clement and others (2010 #7612); scale of mapping was unspecified.

Geologic setting	
Length (km)	135 km.
Average strike	
Sense of movement	
Dip Direction	Unknown
Paleoseismology studies	
Geomorphic expression	
Age of faulted surficial deposits	
Historic earthquake	
Most recent prehistoric deformation	Unspecified *Comments:*
Recurrence interval	
Slip-rate category	Insufficient data
Date and Compiler(s)	2017
References	#7609 Blakely, R.J., Sherrod, B.L., Hughes, J.F., Anderson, M.L., Wells, R.E., and Weaver, C.S., 2009, Saddle Mountain fault deformation zone, Olympic Peninsula, Washington—Western boundary of the Seattle uplift: Geosphere, v. 5, p. 105–125, doi:10.1130/GES00196.1. #4718 Brocher, T.M., Parsons, T., Blakely, R.J., Christensen, N.I., Fisher, M.A., Wells, R.E., and SHIPS Working Group, 2001, Upper crustal structure in Puget Lowland, Washington—Results from the 1998 seismic hazards investigation in Puget Sound: Journal of Geophysical Research, v. 106, p. 13,541–13,564. #7612 Clement, C.R., Pratt, T.L., Holmes, M.L., Sherrod, B.L., 2010,

	High-resolution seismic reflection imaging of growth folding and shallow faults beneath the southern Puget Lowland, Washington State: Bulletin of the Seismological Society of America, v. 100, p. 1710–1723, DOI: 10.1785/0120080306 .