

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.

unnamed faults near Jaussaud Creek (Class A) No. 708

Last Review Date: 2002-12-10

Reliability of Good

citation for this record: Personius, S.F., compiler, 2002, Fault number 708, unnamed faults near Jaussaud Creek, 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 02:03 PM.

east (?) normal fault rocks in the Blue Me Quaternary deposits		The unnamed faults near Jaussaud Creek are north-northeast-trending, down-to-tl east (?) normal faults, primarily mapped in Miocene Columbia River Basalt Grou rocks in the Blue Mountains of northeastern Oregon. No evidence of fault scarps Quaternary deposits has been described, but airphoto and DEM analysis has been to infer middle to late Quaternary displacement.
Name comments These two unnamed faults are located near Jaussaud Creek in northeastern Oregon.		These two unnamed faults are located near Jaussaud Creek in the Blue Mountains northeastern Oregon.
County(s) and State(s)		WALLOWA COUNTY, OREGON
_	graphic vince(s)	COLUMBIA PLATEAU
		(I

location	Compiled at 1:100,000 scale.
	Comments: Location of fault from ORActiveFaults (http://www.oregongeology.org/arcgis/rest/services/Public/ORActiveFaults/Map\$ downloaded 06/02/2016) attributed to Swanson and Wright (1983 #5037).
Geologic setting	Faults near Jaussaud Creek are mapped mostly in Miocene basalts of the Columb River Basalt Group (Walker, 1979 #3576; Swanson and Wright, 1983 #5037; Waland MacLeod, 1991 #3646). The fault traces mapped by Pezzopane (1993 #3544) Weldon and others (2002 #5648) are similar to but do not precisely coincide with several mapped faults in this area; Walker (1979 #3576), Swanson and Wright (19 #5037), and Walker (1991 #3646) map north-trending faults with both east and w dips in this area.
Length (km)	6 km.
Average strike	N18°E
Sense of movement	Normal Comments: Faults near Jaussaud Creek are mapped as high-angle or normal fault (Walker, 1979 #3576; Swanson and Wright, 1983 #5037; Walker and MacLeod, 1 #3646; Pezzopane, 1993 #3544).
Dip Direction	Comments: Pezzopane (1993 #3544) maps these faults down-east, but similar fau mapped in the same general location have both east and west dips (Walker, 1979 #3576; Swanson and Wright, 1983 #5037; Walker and MacLeod, 1991 #3646).
Paleoseismology studies	
_	The geomorphic expression of these faults has not been described, and the fault to as mapped by Pezzopane (1993 #3544) and Weldon and others (2002 #5648) are marked by significant escarpments or linear features on 1:24,000-scale topograph maps.
surficial	Faults near Jaussaud Creek are mapped mostly in Miocene basalts of the Columb River Basalt Group, and are not shown offsetting Quaternary deposits on existing geologic maps (Walker, 1979 #3576; Swanson and Wright, 1983 #5037; Walker & MacLeod, 1991 #3646).
Historic earthquake	

Most recent	latest Quaternary (<15 ka)			
prehistoric deformation				
Recurrence interval				
Slip-rate category	Less than 0.2 mm/yr Comments: No slip data have been published on these faults. Their lack of signification geomorphic expression in Miocene bedrock suggests low rates of long-term slip.			
Date and Compiler(s)	2002 Stephen F. Personius, U.S. Geological Survey			
References	#3544 Pezzopane, S.K., 1993, Active faults and earthquake ground motions in O Eugene, Oregon, University of Oregon, unpublished Ph.D. dissertation, 208 p. #5037 Swanson, D.A., and Wright, T.L., 1983, Geologic map of the Wenaha Tuc Wilderness, Washington and Oregon: U.S. Geological Survey Miscellaneous Fiel Studies Map MF-1536, 1 sheet, scale 1:48,000. #3576 Walker, G.W., 1979, Reconnaissance geologic map of the Oregon part of t Grangeville quadrangle, Baker, Union, Umatilla, and Wallowa Counties, Oregon Geological Survey Miscellaneous Investigations Map I-1116, 1 sheet, scale 1:250 #3646 Walker, G.W., and MacLeod, N.S., 1991, Geologic map of Oregon: U.S. Geological Survey, Special Geologic Map, 2 sheets, scale 1:500,000. #5648 Weldon, R.J., Fletcher, D.K., Weldon, E.M., Scharer, K.M., and McCrory, 2002, An update of Quaternary faults of central and eastern Oregon: U.S. Geolog Survey Open-File Report 02-301 (CD-ROM), 26 sheets, scale 1:100,000.			

Questions or comments?

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Hazards

<u>Design Ground MotionsSeismic Hazard Maps & Site-Specific DataFaultsScenarios</u>

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