

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 fault west of Mount Wilson (Class A) No. 1425

Last Review Date: 1998-06-28

citation for this record: Sawyer, T.L., compiler, 1998, Fault number 1425, unnamed fault west of Mount Wilson, 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 02:05 PM.

Synopsis	These two short, down-to-the-west normal faults bound the western front of Mount Wilson in the western Wilson Creek Range. Reconnaissance photogeologic mapping of these faults is the source of data. Trench investigations and studies of scarp morphology have not been completed.
Name comments	Refers to two short faults mapped by Schell (1981 #2844), and subsequently mapped by Dohrenwend and others (1991 #287). Faults extend along west flank of the Wilson Creek Range from Page Creek to west of Mount Wilson.
County(s) and State(s)	LINCOLN COUNTY, NEVADA
Physiographic province(s)	BASIN AND RANGE

Reliability of location	<p>Good Compiled at 1:100,000 scale.</p> <p><i>Comments:</i> Location based on 1:250,000-scale maps of Schell (1981 #2844) and of Dohrenwend and others (1991 #287). Original mapping by Schell (1981 #2843; 1981 #2844) based on photogeologic analysis of primarily 1:24,000-scale color aerial photography supplemented with 1:60,000-scale black-and-white aerial photography, transferred by inspection to 1:62,500-scale topographic maps and photographically reduced and directly transferred to 1:250,000-scale topographic maps, and field verification. Mapping by Dohrenwend and others (1991 #287) based on photogeologic analysis of 1:58,000-nominal-scale color-infrared photography transferred directly to 1:100,000-scale topographic quadrangle maps enlarged to scale of the photographs.</p>
Geologic setting	<p>These two short, down-to-the-west normal faults bound the western front of Mount Wilson in the western Wilson Creek Range.</p>
Length (km)	<p>6 km.</p>
Average strike	<p>N16°W</p>
Sense of movement	<p>Normal</p> <p><i>Comments:</i> (Schell, 1981 #2844).</p>
Dip Direction	<p>W</p>
Paleoseismology studies	
Geomorphic expression	<p>The fault is marked by fault scarps juxtaposing Quaternary alluvium against bedrock (Dohrenwend and others, 1991 #287).</p>
Age of faulted surficial deposits	<p>Quaternary and Tertiary (Schell, 1981 #2844; Dohrenwend and others, 1991 #287)</p>
Historic earthquake	
Most recent prehistoric	<p>undifferentiated Quaternary (<1.6 Ma)</p>

deformation	<i>Comments:</i> Although timing of the most recent event is not well constrained, Schell (1981 #2843; 1981 #2844) and Dohrenwend and others (1991 #287) suggested a Quaternary time based on reconnaissance photogeologic studies.
Recurrence interval	
Slip-rate category	Less than 0.2 mm/yr <i>Comments:</i> A low slip rate is inferred from general knowledge of slip rates estimated for other faults in the region.
Date and Compiler(s)	1998 Thomas L. Sawyer, Piedmont Geosciences, Inc.
References	#287 Dohrenwend, J.C., Schell, B.A., and Moring, B.C., 1991, Reconnaissance photogeologic map of young faults in the Lund 1° by 2° quadrangle, Nevada and Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-2180, 1 sheet, scale 1:250,000. #2843 Schell, B.A., 1981, Faults and lineaments in the MX Siting Region, Nevada and Utah, Volume I: Technical report to U.S. Department of [Defense] the Air Force, Norton Air Force Base, California, under Contract FO4704-80-C-0006, November 6, 1981, 77 p. #2844 Schell, B.A., 1981, Faults and lineaments in the MX Siting Region, Nevada and Utah, Volume II: Technical report to U.S. Department of [Defense] the Air Force, Norton Air Force Base, California, under Contract FO4704-80-C-0006, November 6, 1981, 29 p., 11 pls., scale 1:250,000.

[Questions or comments?](#)

[Facebook](#) [Twitter](#) [Google](#) [Email](#)

[Hazards](#)

[Design Ground Motions](#)[Seismic Hazard Maps & Site-Specific Data](#)[Faults](#)[Scenarios](#)

[Earthquakes](#)[Hazards](#)[Data](#)[Education](#)[Monitoring](#)[Research](#)

[Home](#)[About Us](#)[Contacts](#)[Legal](#)