

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 around Majuba Mountains (Class A) No. 1632

Last Review Date: 1999-03-10

citation for this record: Adams, K., compiler, 1999, Fault number 1632, unnamed faults around Majuba Mountains, 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 02:35 PM.

Synopsis	These apparently related short faults include east-west-striking piedmont faults on the south side of the Majuba Mountains and a single northwest-striking piedmont fault on the northeast side of the Majuba Mountains. These faults are expressed by prominent topographic lineaments, juxtaposition of Quaternary alluvium against bedrock, and by abrupt south- and northeast-facing scarps on the south and northeast sides of the Majuba Mountains, respectively. Reconnaissance photogeologic mapping and regional geologic mapping are the sources of data. Trench investigations and detailed studies of scarp morphology have not been conducted.
Name comments	Refers to faults on the south and east sides of the Majuba Mountains, west of Rye Patch Reservoir.

County(s) and State(s)	PERSHING COUNTY, NEVADA
Physiographic province(s)	BASIN AND RANGE
Reliability of location	<p>Good Compiled at 1:100,000 scale.</p> <p><i>Comments:</i> Fault locations primarily based on 1:250,000-scale map of Dohrenwend and others (1991 #285), which was produced by 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. Additional faults were located from 1:250,000-scale photogeologic map of Slemmons (1974, unpublished Lovelock 1? X 2? sheet). Fault locations checked against 1:250,000-scale photogeologic map of Johnson (1977 #2569).</p>
Geologic setting	This group consists of east-west-striking piedmont faults on the south side of the Majuba Mountains and a single northwest-striking piedmont fault on the northeast side of the Majuba Mountains (Dohrenwend and others, 1991 #285).
Length (km)	12 km.
Average strike	N64°W
Sense of movement	<p>Normal</p> <p><i>Comments:</i> Not studied in detail; sense of movement inferred from topography.</p>
Dip Direction	S; NE
Paleoseismology studies	
Geomorphic expression	Faults are expressed by prominent topographic lineaments and by abrupt south- and northeast-facing scarps on the south and northeast sides of the Majuba Mountains, respectively (Dohrenwend and others, 1991 #285).
Age of faulted surficial deposits	Quaternary alluvium is faulted and juxtaposed against older bedrock along the faults (Johnson, 1977 #2569; Dohrenwend and others, 1991 #285).

Historic earthquake	
Most recent prehistoric deformation	undifferentiated Quaternary (<1.6 Ma) <i>Comments:</i> Although timing of most recent event is not well constrained, a Quaternary time is suggested based on reconnaissance photogeologic mapping of Dohrenwend and others (1991 #285).
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)	1999 Kenneth Adams, Piedmont Geosciences, Inc.
References	#285 Dohrenwend, J.C., McKittrick, M.A., and Moring, B.C., 1991, Reconnaissance photogeologic map of young faults in the Lovelock 1° by 2° quadrangle, Nevada and California: U.S. Geological Survey Miscellaneous Field Studies Map MF-2178, 1 sheet, scale 1:250,000. #2569 Johnson, M.G., 1977, Geology and mineral deposits of Pershing County, Nevada: Nevada Bureau of Mines and Geology Bulletin 89, 115 p., scale 1:250,000.

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