

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 in southeastern Eden Valley (Class A) No. 1522

Last Review Date: 1999-01-27

citation for this record: Adams, K., compiler, 1999, Fault number 1522, unnamed faults in southeastern Eden Valley, 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 02:50 PM.

Synopsis	This distributed group of predominately northeast-striking piedmont faults in eastern Eden Valley forms three distinct clusters of scarps on northwest piedmont slope of the Osgood Mountains. These short northwest-facing scarps are on Pleistocene and possibly late Quaternary alluvium. Reconnaissance photogeologic mapping of the faults is the source of data. Trench investigations and detailed studies of scarp morphology have not been completed.
Name comments	Refers to a group of faults on the eastern side of Eden Valley mapped by Slemmons (1966, unpublished McDermitt 1? X 2? sheet) and Dohrenwend and Moring (1991 #284).
County(s) and	HUMBOLDT COUNTY, NEVADA

State(s)	HUMBOLDT 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 Fault locations are based on 1:250,000-scale map of Dohrenwend and Moring (1991 #284) and Slemmons (1966, unpublished McDermitt 1? X 2? sheet). The map of Dohrenwend and Moring (1991 #284) 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. Slemmons (1966, unpublished McDermitt 1? X 2? sheet) mapped from analysis of 1:60,000-scale AMS photography transferred to mylar overlaid onto a 1:250,000-scale topographic map using proportional dividers.</p>
Geologic setting	This distributed group of predominately northeast-striking piedmont faults in eastern Eden Valley forms three distinct groups of scarps on northwest piedmont slope of the Osgood Mountains (Slemmons, unpublished McDermitt 1? X 2? sheet; Dohrenwend and Moring, 1991 #284).
Length (km)	18 km.
Average strike	N56°E
Sense of movement	<p>Normal</p> <p><i>Comments:</i> (Slemmons, 1966, unpublished McDermitt 1? X 2? sheet; Dohrenwend and Moring, 1991 #284)</p>
Dip Direction	NW
Paleoseismology studies	
Geomorphic expression	Faults form three distinct groups of short northwest-facing scarps on Pleistocene and late Quaternary piedmont-slope deposits of the Osgood Mountains (Slemmons, 1966, unpublished McDermitt 1? X 2? sheet; Dohrenwend and Moring, 1991 #284).
Age of faulted surficial	Pleistocene; possibly late Quaternary. Faults have been mapped that displace Pleistocene (Dohrenwend and Moring, 1991 #284)

deposits	and possibly late Quaternary alluvium (Slemmons, 1966, unpublished McDermitt 1° X 2° sheet).
Historic earthquake	
Most recent prehistoric deformation	undifferentiated Quaternary (<1.6 Ma) <i>Comments:</i> The timing of most recent event is not well constrained, and the two sources do not concur. Therefore, the assigned age is based on Dohrenwend and Moring (1991 #284) because it is the sole published source.
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	#284 Dohrenwend, J.C., and Moring, B.C., 1991, Reconnaissance photogeologic map of young faults in the McDermitt 1° by 2° quadrangle, Nevada, Oregon, and Idaho: U.S. Geological Survey Miscellaneous Field Studies Map MF-2177, 1 sheet, scale 1:250,000.

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