

# 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 bounding Blue Mountain (Class A) No. 1500

Last Review Date: 1999-03-10

*citation for this record:* Sawyer, T.L., and Adams, K., compilers, 1999, Fault number 1500, unnamed faults bounding Blue Mountain, 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.

<b>Synopsis</b>	Little is known about these range-front normal faults that bound the north, west, and southwest sides of Blue Mountain. They juxtapose Quaternary alluvium against bedrock along abrupt piedmont-hillslope transitions. Reconnaissance photogeologic mapping of the faults are the sources of data. Trench investigations and detailed studies of scarp morphology have not been conducted.
<b>Name comments</b>	Refers to faults mapped by Slemmons (1966, unpublished Vya 1? X 2? sheet), Dohrenwend and Moring (1991 #281), and Dohrenwend and others (1991 #285) that bound the north, west, and southwest fronts of Blue Mountain.
<b>County(s) and</b>	HUMBOLDT COUNTY, NEVADA

<b>State(s)</b>	HUMBOLDT COUNTY, NEVADA
<b>Physiographic province(s)</b>	BASIN AND RANGE
<b>Reliability of location</b>	<p>Good Compiled at 1:100,000 scale.</p> <p><i>Comments:</i> Fault locations based on 1:250,000-scale maps of Dohrenwend and Moring (1991 #281) and Dohrenwend and others (1991 #285); mapping is from 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. Fault locations were checked against small scale maps of Slemmons (1966, unpublished Vya 1? X 2? sheet).</p>
<b>Geologic setting</b>	These range-front normal faults bounds the north, west, and southwest sides of Blue Mountain, which lies on the southeast margin of Desert Valley.
<b>Length (km)</b>	8 km.
<b>Average strike</b>	N17°W
<b>Sense of movement</b>	<p>Normal</p> <p><i>Comments:</i> Not studied in detail; sense of movement is inferred from topography.</p>
<b>Dip Direction</b>	NW; SW
<b>Paleoseismology studies</b>	
<b>Geomorphic expression</b>	The faults are expressed by abrupt piedmont-hillslope transitions (Dohrenwend and Moring, 1991 #281; Dohrenwend and others, 1991 #285). Detailed studies of scarp morphology have not been conducted.
<b>Age of faulted surficial deposits</b>	The faults place Quaternary piedmont-slope deposits against bedrock (Dohrenwend and Moring, 1991 #281; Dohrenwend and others, 1991 #285).
<b>Historic earthquake</b>	
<b>Most recent</b>	undifferentiated Quaternary (<1.6 Ma)

<b>prehistoric deformation</b>	<i>Comments:</i> Although timing of most recent event is not well constrained, a Quaternary time is suspected based on reconnaissance photogeologic mapping by Dohrenwend and Moring (1991 #281) and Dohrenwend and others (1991 #285).
<b>Recurrence interval</b>	
<b>Slip-rate category</b>	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.
<b>Date and Compiler(s)</b>	1999 Thomas L. Sawyer, Piedmont Geosciences, Inc. Kenneth Adams, Piedmont Geosciences, Inc.
<b>References</b>	#281 Dohrenwend, J.C., and Moring, B.C., 1991, Reconnaissance photogeologic map of young faults in the Vya 1° by 2° quadrangle, Nevada, Oregon, and California: U.S. Geological Survey Miscellaneous Field Studies Map MF-2174, 1 sheet, scale 1:250,000.  #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.

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