

# 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 along the northern Rock Mountains (Class A) No. 1436

Last Review Date: 1998-06-28

*citation for this record:* Sawyer, T.L., compiler, 1998, Fault number 1436, unnamed fault along the northern Rock 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 02:05 PM.

<b>Synopsis</b>	This group of short down-to-the-north normal faults bounds westerly trending front of the northern Rock Mountains and crosses piedmont slope in Hamlin Valley. Reconnaissance photogeologic mapping of these faults are the source of data. Trench investigations and studies of scarp morphology have not been completed.
<b>Name comments</b>	Refers to several faults mapped by Schell (1981 #2844) and also by Dohrenwend and others (1991 #287). The faults extend along the north flank and piedmont slope of the White Rock Mountains from northwest of The Hermitage to near Miller Canyon.
<b>County(s) and State(s)</b>	LINCOLN COUNTY, NEVADA
<b>Physiographic</b>	

<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> 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>
<b>Geologic setting</b>	This group of short down-to-the-north normal faults bounds westerly trending front of the northern Rock Mountains and crosses piedmont slope in Hamlin Valley.
<b>Length (km)</b>	7 km.
<b>Average strike</b>	N77°W
<b>Sense of movement</b>	<p>Normal</p> <p><i>Comments:</i> Not studied in detail; sense of movement inferred from topography.</p>
<b>Dip Direction</b>	N
<b>Paleoseismology studies</b>	
<b>Geomorphic expression</b>	The fault is expressed by fault scarps juxtaposing Quaternary deposits against bedrock and by lineaments on Quaternary and Tertiary deposits (Dohrenwend and others, 1991 #287).
<b>Age of faulted surficial deposits</b>	Quaternary and Tertiary deposits (Dohrenwend and others, 1991 #287).
<b>Historic</b>	

<b>earthquake</b>	
<b>Most recent prehistoric deformation</b>	undifferentiated Quaternary (<1.6 Ma)  <i>Comments:</i> Although timing of the most recent event is not well constrained, Schell (1981 #2844) and Dohrenwend and others (1991 #287) suggested a Quaternary time based on a reconnaissance study photogeologic study.
<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>	1998 Thomas L. Sawyer, Piedmont Geosciences, Inc.
<b>References</b>	#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.

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