

# 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 southeast of China Mountain (Class A) No. 1598

Last Review Date: 1998-09-30

*citation for this record:* Oswald, J.A., and Sawyer, T.L., compilers, 1998, Fault number 1598, unnamed fault southeast of China 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 02:36 PM.

<b>Synopsis</b>	This short down-to-the-east, normal fault bounds east front of an unnamed ridge, 10 km southeast of China Mountain and 1.5 km west of the Nevada-Utah state line. The fault juxtaposes Quaternary alluvium against bedrock. Reconnaissance photogeologic mapping of fault related features is the source of data. Trench investigations and studies of scarp morphology have not been conducted along the fault.
<b>Name comments</b>	Refers to a fault mapped by Dohrenwend and others (1991 #290) that is 10 km southeast of China Mountain and 1.5 km west of the Nevada-Utah state line.
<b>County(s) and State(s)</b>	ELKO COUNTY, NEVADA
<b>Physiographic</b>	

<b>Topographic 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 map of Dohrenwend and others (1991 #290); mapping by 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>	Short down-to-the-east, normal fault bounding the east front of an unnamed range, 10 km southeast of China Mountain (Dohrenwend and others, 1991 #290). The fault forms the west side of a small valley that joins with Tecoma Valley to the south.
<b>Length (km)</b>	3 km.
<b>Average strike</b>	N3°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>	E
<b>Paleoseismology studies</b>	
<b>Geomorphic expression</b>	The fault juxtaposes Quaternary alluvium against bedrock (Dohrenwend and others, 1991 #290).
<b>Age of faulted surficial deposits</b>	Quaternary. The fault displaces alluvium interpreted from photogeologic mapping to be Quaternary in age (Dohrenwend and others, 1991 #290).
<b>Historic earthquake</b>	
<b>Most recent prehistoric deformation</b>	<p>undifferentiated Quaternary (&lt;1.6 Ma)</p> <p><i>Comments:</i> Although timing of the most recent event is not well constrained, Dohrenwend and others (1991 #290; 1996 #2846) suggested a Quaternary time based on reconnaissance photogeologic studies.</p>

<b>Recurrence interval</b>	
<b>Slip-rate category</b>	Less than 0.2 mm/yr  <i>Comments: A low slip rate is inferred from general knowledge of slip rates estimated for other faults in the region.</i>
<b>Date and Compiler(s)</b>	1998 John A. Oswald, Piedmont Geosciences, Inc. Thomas L. Sawyer, Piedmont Geosciences, Inc.
<b>References</b>	#290 Dohrenwend, J.C., McKittrick, M.A., and Moring, B.C., 1991, Reconnaissance photogeologic map of young faults in the Wells 1° by 2° quadrangle, Nevada, Utah, and Idaho: U.S. Geological Survey Miscellaneous Field Studies Map MF-2184, 1 sheet, scale 1:250,000.  #2846 Dohrenwend, J.C., Schell, B.A., Menges, C.M., Moring, B.C., and McKittrick, M.A., 1996, Reconnaissance photogeologic map of young (Quaternary and late Tertiary) faults in Nevada, <i>in</i> Singer, D.A., ed., Analysis of Nevada's metal-bearing mineral resources: Nevada Bureau of Mines and Geology Open-File Report 96-2, 1 pl., scale 1:1,000,000.

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