

# 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 zone along Bluewing Mountains (Class A) No. 1620

Last Review Date: 1999-03-09

*citation for this record:* Sawyer, T.L., and Adams, K., compilers, 1999, Fault number 1620, unnamed fault zone along Bluewing 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 02:26 PM.

### Synopsis

This short, gently arcuate zone includes range-bounding and piedmont faults at and near (respectively) the northwestern front of the Bluewing Mountains that extend as intrabasin faults both northeast and southwest from the ends of the range into Kumiva Valley. The lowest part of valley is adjacent to the range-bounding faults, suggesting that the valley floor may have been tilted to the southeast as a result of young movement on the fault zone. Range front faults juxtapose Quaternary alluvium against bedrock and are expressed as the abrupt front of the Bluewing Mountains. Northwest-facing scarps on Quaternary alluvium appear to locally mark piedmont faults in the central part of the zone. Reconnaissance photogeologic mapping and regional geologic mapping 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	Refers to faults mapped by Slemmons (1974, unpublished Lovelock 1? X 2? sheet) and Johnson (1977 #2569) in Kumiva Valley and along the northwest side of the Bluewing Mountains.
<b>County(s) and State(s)</b>	PERSHING COUNTY, NEVADA
<b>Physiographic province(s)</b>	BASIN AND RANGE
<b>Reliability of location</b>	Good Compiled at 1:100,000 scale.  <i>Comments:</i> Fault locations are primarily based on 1:250,000-scale geologic map of Johnson (1977 #2569) and were checked against 1:250,000-scale photogeologic map of Slemmons (1974, unpublished Lovelock 1? X 2? sheet).
<b>Geologic setting</b>	These northeast-striking, down to the northwest faults bound the entire northwestern side of the Bluewing Mountains on the east side of Kumiva Valley (Johnson, 1977 #2569). The lowest part of Kumiva Valley lies adjacent to these range-bounding faults.
<b>Length (km)</b>	16 km.
<b>Average strike</b>	N48°E
<b>Sense of movement</b>	Normal  <i>Comments:</i> Not studied in detail; sense of movement is inferred from topography.
<b>Dip Direction</b>	NW
<b>Paleoseismology studies</b>	
<b>Geomorphic expression</b>	This short, gently arcuate zone has range-bounding and piedmont faults at and near, respectively, the northwest front of the Bluewing Mountains that extend as intrabasin faults both northeast and southwest from the ends of the range into Kumiva Valley; the lowest part of valley is adjacent to the range-bounding faults, suggesting that the valley floor may have been tilted to the southeast as a result of young movement on the fault zone (Johnson, 1977 #2569).
<b>Age of faulted</b>	

<b>Age of faulted surficial deposits</b>	Johnson (1977 #2569) reported an undifferentiated Quaternary age for the faulted alluvium.
<b>Historic earthquake</b>	
<b>Most recent prehistoric deformation</b>	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 mapping of Johnson (1977 #2569).
<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>	#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.

[Questions or comments?](#)

[Facebook](#) [Twitter](#) [Google](#) [Email](#)

[Hazards](#)

[Design Ground Motions](#)[Seismic Hazard Maps & Site-Specific Data](#)[Faults](#)[Scenarios](#)

[Earthquakes](#)[Hazards](#)[Data](#)[Education](#)[Monitoring](#)[Research](#)



[Home](#)[About Us](#)[Contacts](#)[Legal](#)