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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 northwest of Black Rock Summit (Class B) No. 1373

Last Review Date: 1998-07-11

citation for this record: **Sawyer, T.L., compiler, 1998, Fault number 1373, unnamed faults northwest of Black Rock Summit, 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 02:14 PM.**

Synopsis	Two short, subparallel normal faults that appear to represent eruptive fissures controlling alignments of Quaternary basaltic cones (Kleinhampl and Ziony, 1985 #2851). Geologic field mapping is the source of data. Trench investigations and studies of scarp morphology have not been completed.
Name comments	Refers to two short faults mapped by Ekren and others (1972 #2850). The faults are in the southeastern part of Big Sand Springs Valley, 2 to 3 km northwest of Black Rock Summit.
County(s) and State(s)	NYE COUNTY, NEVADA
Physiographic province(s)	BASIN AND RANGE

Reliability of location	Good Compiled at 1:100,000 scale. *Comments:* Location based on 1:48,000-scale geologic map of Ekren and others (1972 #2850) of the Wall quadrangle.
Geologic setting	Two short, subparallel normal faults that appear to represent eruptive fissures controlling alignments of Quaternary basaltic cones (Kleinhampl and Ziony, 1985 #2851).
Length (km)	7 km.
Average strike	N58°E
Sense of movement	Normal *Comments:* Not studied in detail.
Dip Direction	Unknown
Paleoseismology studies	
Geomorphic expression	The fault is expressed by an alignment of basaltic cinder cones, scoria mounds, and fissures.
Age of faulted surficial deposits	Quaternary basalt
Historic earthquake	
Most recent prehistoric deformation	undifferentiated Quaternary (<1.6 Ma) *Comments:* Although timing of most recent prehistorical event is not well constrained, Ekren and others (1972 #2850) map the faults in Quaternary basalt.
Recurrence interval	
Slip-rate category	Less than 0.2 mm/yr *Comments:* A low slip rate is inferred from general knowledge of slip rates estimated for other faults in the region.

Date and Compiler(s)	1998 Thomas L. Sawyer, Piedmont Geosciences, Inc.
References	#2850 Ekren, E.B., Hinrichs, E.N., and Dixon, G.L., 1972, Geologic map of The Wall quadrangle, Nye County, Nevada: U.S. Geological Survey Miscellaneous Investigations Map I-719, scale 1:48,000. #2851 Kleinhampl, F.J., and Ziony, J.I., 1985, Geology of Northern Nye County, Nevada: Nevada Bureau of Mines and Geology Bulletin 99A, 172 p.