

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 in Virginia Range (Class A) No. 1667

Last Review Date: 1999-03-26

citation for this record: Adams, K., compiler, 1999, Fault number 1667, unnamed fault zone in Virginia Range, 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 distributed group of short northwest- to northeast-striking intermontane faults extend from east end of Flowery Range northward through northeastern Virginia Range to Truckee River canyon about 6 km southwest of Wadsworth. Reconnaissance photogeologic mapping and regional geologic mapping are the sources of data. Trench investigations and detailed studies of scarp morphology have not been conducted.
Name comments	Refers to faults mapped by Bonham (1969 #2999), Bell (1984 #105), and Greene and others (1991 #3487) that extend from east end of Flowery Range northward through northeastern Virginia Range to Truckee River canyon about 6 km southwest of Wadsworth.
County(s) and	LYON COUNTY, NEVADA

State(s)	WASHOE COUNTY, NEVADA STOREY COUNTY, NEVADA
Physiographic province(s)	BASIN AND RANGE
Reliability of location	Good Compiled at 1:100,000 scale. <i>Comments:</i> Fault locations from 1:250,000-scale map of Bell (1984 #105). Mapping is from photogeologic analysis of 1:40,000-scale low sun-angle aerial photography, supplemented with 1:12,000-scale aerial photography of selected areas, several low-altitude aerial reconnaissance flights, and approximately 7 man-months of field reconnaissance of major structural and stratigraphic relationships.
Geologic setting	This distributed group of short northwest- to northeast-striking intermontane faults extend from east end of Flowery Range northward through northeastern Virginia Range to Truckee River canyon about 6 km southwest of Wadsworth (Bell, 1984 #105).
Length (km)	19 km.
Average strike	N66°E
Sense of movement	Normal <i>Comments:</i> Not studied in detail; sense of movement inferred from topography.
Dip Direction	N; E
Paleoseismology studies	
Geomorphic expression	Faults are expressed as topographic lineaments on Tertiary volcanic rocks and Quaternary alluvium, providing evidence of young movement (Bell, 1984 #105; Greene and others, 1991 #3487).
Age of faulted surficial deposits	Quaternary; Tertiary. Bell (1984 #105) mapped faults and lineaments on places where Greene and others (1991 #3487) mapped Quaternary alluvium, thus implying that some faults displace Quaternary alluvium. Bonham (1969 #2999) and Greene and others (1991 #3487) mapped other faults displacing Tertiary

	volcanic rocks.
Historic earthquake	
Most recent prehistoric deformation	undifferentiated Quaternary (<1.6 Ma) <i>Comments:</i> Although timing of most recent event is not well constrained, a Quaternary time suggested based on mapping by Bell (1984 #105) and Greene and others (1991 #3487).
Recurrence interval	
Slip-rate category	Less than 0.2 mm/yr <i>Comments:</i> A low slip rate is inferred from a general knowledge of slip rates for other faults in the region.
Date and Compiler(s)	1999 Kenneth Adams, Piedmont Geosciences, Inc.
References	#105 Bell, J.W., 1984, Quaternary fault map of Nevada—Reno sheet: Nevada Bureau of Mines and Geology Map 79, 1 sheet, scale 1:250,000. #2999 Bonham, H.F., 1969, Geology and mineral deposits of Washoe and Storey Counties, Nevada: Nevada Bureau of Mines and Geology Bulletin 70, 140 p., 1 pl., scale 1:250,000. #3487 Greene, R.C., Stewart, J.H., John, D.A., Hardyman, R.F., Silberling, N.J., and Sorensen, M.L., 1991, Geologic map of the Reno 1° by 2° quadrangle, Nevada and California: U.S. Geological Survey Miscellaneous Field Studies Map MF-2154-A, scale 1:250,000.

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