

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 <u>interactive fault map</u>.

unnamed faults of Meadow Valley Wash (Class A) No. 1737

Last Review Date: 2001-11-20

citation for this record: Anderson, R.E., compiler, 2001, Fault number 1737, unnamed faults of Meadow Valley Wash, 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 02:24 PM.

Synopsis	These north-striking, unnamed faults along Meadow Valley Wash were identified as Quaternary structures by photogeologic reconnaissance and have not been studied in the field. They may form the boundaries of a basin-medial graben in the hanging wall of a low-angle normal fault, but little is known of their geomorphic expression or of the age of strata they cut. Recurrence times and slip rate are unknown.		
	Faults not named; shown in an unpublished 1:250,000-scale map by J. C. Dohrenwend of Quaternary faults in the 1? x2? Caliente		
Comments	sheet (published at 1:1,000,000 by Dohrenwend and others, 1996		
	#2846), four northerly striking faults form a highly discontinuous		
	fault group. The group extends north from the vicinity of Carp		
	(Union Pacific rail siding) to about 2 km north of Cottonwood		

Canyon.	
County(s) and State(s) LINCOLN COUNTY, NEVADA	
Physiographic province(s) BASIN AND RANGE	
Reliability of location Good Compiled at 1:100,000 scale. Comments: Fault traces are shown in an scale map by J. C. Dohrenwend of Quat Caliente sheet (published at 1:1,000,000 others, 1996 #2846). The unpublished in photogeologic analysis of 1:58,000 nomphotography. The photogeologic mapping to 1/2? x 1? topographic quadrangle may the photographs and then reduced to and 1:250,00 Caliente sheet.	ernary faults in the 1? x2? by Dohrenwend and nap was produced by inal-scale, color infrared ng was transferred directly ps enlarged to the scale of
Geologic setting These faults appear to be mid-basin struextensional basin between the Meadow Mormon Mountains. On the basis of the as shown on J. C. Dohrenwend's unpublisher faults have opposed displacement they may form the boundaries of a grabe Wash area is reported to be in the hanging detachment fault (Wernicke, 1985 #331 of the graben (?) faults would probably detachment fault.	Valley Mountains and the ir geomorphic expression ished map, the southern sense, suggesting that en. The Meadow Valley ng wall of a west-dipping 7). If so, the depth extent
Length (km) 23 km.	
Average strike N4°E	
Sense of movement Normal Comments: Normal sense inferred from tectonic setting.	location in an extensional
Dip Direction E; W	
Paleoseismology studies	
	ession of these faults. The

expression	eastern faults trend at a high angle to closely spaced dry washes. Typically, these washes are incised into late Tertiary basin-fill deposits (Ekren and others, 1977 #1036) and, as such, if they form scarps in Quaternary materials, the scarps would be limited to thin remnants atop interfluves. The western faults are within the intricately incised sidewall slopes of Meadow Valley Wash, but their geomorphic expression is not known.				
Age of faulted surficial deposits	within the Colorado River drainage basin and thus has				
Historic earthquake					
Most recent prehistoric deformation	undifferentiated Quaternary (<1.6 Ma) Comments: Although timing of the most recent event is not well constrained, reconnaissance studies by Dohrenwend and others (1996 #2846) suggest a Quaternary time based on photogeologic interpretation.				
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.				
#2846 Dohrenwend, J.C., Schell, B.A., Menges, C.M., Moring, B.C., and McKittrick, M.A., 1996, Reconnaissance photogeologi 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. #1036 Ekren, E.B., Orkild, P.P., Sargent, K.A., and Dixon, G.L., 1977, Geologic map of Tertiary rocks, Lincoln County, Nevada:					

U.S. Geological Survey Miscellaneous Investigations Map I-1041, 1 sheet, scale 1:250,000.
#3317 Wernicke, B., 1985, Uniform-sense of normal simple shear of the continental lithosphere: Canadian Journal of Earth Sciences, v. 22, no. 1, p. 108-125.

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Hazards

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