

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](#).

Harper fault zone (Class A) No. 112

Last Review Date: 2017-07-01

citation for this record: Bryant, W.A., compiler, 2017, Fault number 112, Harper fault zone, 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 02:17 PM.

Synopsis	
Name comments	Fault zone includes Black Mountain, Cuddeback, Gravel Hills, Harper Lake, Harper Valley faults. Fault ID: Refers to Jennings (1994) numbers 368 Gravel Hills fault, 369 Black Mountain fault, and 373 Harper Lake fault.
County(s) and State(s)	SAN BERNARDINO COUNTY, CALIFORNIA
Physiographic province(s)	BASIN AND RANGE
Reliability of location	Good Compiled at 1:24,000 and 1:62,500 scale. <i>Comments:</i> Location of fault from Qt_ft_ver_3-

	0_Final_WGS84_polyline.shp (Bryant, W.A., written communication to K.Haller, August 15, 2017) attributed to 1:24,000-scale map of Bryant (1987) and 1:62,500-scale map of Dibblee (1968).
Geologic setting	
Length (km)	79 km.
Average strike	
Sense of movement	Right lateral
Dip Direction	V
Paleoseismology studies	
Geomorphic expression	
Age of faulted surficial deposits	
Historic earthquake	
Most recent prehistoric deformation	latest Quaternary (<15 ka) <i>Comments:</i>
Recurrence interval	
Slip-rate category	Unspecified
Date and Compiler(s)	2017 William A. Bryant, California Geological Survey
References	#8000 Bryant, W.A., 1987, Recently active traces of the Harper, Blackwater, Lockhart, and related faults near Barstow, San Bernardino County, California: California Division of Mines and Geology Fault Evaluation Report 189, in Fault Evaluation Reports Prepared Under the Alquist-Priolo Earthquake Fault Zoning Act, Region 2 – Southern California: California Geological Survey CGS CD 2002-02 (2002).

#6631 Dibblee, T.W., Jr., 1968, Geology of the Fremont Peak and Opal Mountains quadrangles, California: California Division of Mines and Geology Bulletin 188, scale 1:62,500.

#2878 Jennings, C.W., 1994, Fault activity map of California and adjacent areas, with locations of recent volcanic eruptions: California Division of Mines and Geology Geologic Data Map 6, 92 p., 2 pls., scale 1:750,000.

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