

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](#).

Mecca Hills fault zone (Class A) No. 316

Last Review Date: 2017-05-15

citation for this record: Bryant, W.A., compiler, 2017, Fault number 316, Mecca Hills 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 02:51 PM.

Synopsis	
Name comments	
County(s) and State(s)	RIVERSIDE COUNTY, CALIFORNIA
Physiographic province(s)	BASIN AND RANGE
Reliability of location	Good Compiled at 1:14,000 and 1:100,000 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 1:14,000-scale map by Hays (1957) and 1:100,000-scale map by

	Matti (2012), additional mapping of unspecified scale by Ware (1958), Riverside County (2001), Petra (2007), and Bryant (2012, 2015) is included.
Geologic setting	
Length (km)	41 km.
Average strike	
Sense of movement	Right lateral, Normal
Dip	
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	#8024 Bryant, W. A., 2015, San Andreas, Skeleton Canyon, Indio Hills, NW Painted Canyon, Coachella Fan, Berdoo Canyon, and related faults, Riverside County, California: California Geological Survey Fault Evaluation Report FER-250, 34 p., 2 Appendices, website, [ftp://ftp.consrv.ca.gov/pub/dmg/pubs/fer/250/]. #8022 Bryant, W.A., 2012, San Andreas, Hidden Spring, Skeleton Canyon, Mecca Hills, and related faults, Riverside and Imperial Counties, California: California Geological Survey Fault

Evaluation Report FER-252, 29 p. website,
[ftp://ftp.consrv.ca.gov/pub/dmg/pubs/fer/252/].

#8131 Hays, W.H., 1957, Geology of the central Mecca Hills, Riverside County, California: New Haven, Connecticut, Yale University, unpublished Ph.D. thesis, 324 p., map scale 1:14,000.

#4960 Hope, R.A., 1969, Map showing recently active breaks along the San Andreas and related faults between Cajon Pass and Salton Sea: U.S. Geological Survey Open-File Report 69-130, 2 plates, scale 1:24,000,
<https://pubs.er.usgs.gov/publication/ofr69130>.

#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.

#8192 Matti, J.C., 2012, Preliminary geologic mapping in the Palm Springs 30' x 60' quadrangle, California: Unpublished, in progress, digital data provided by U.S. Geological Survey to California Geological Survey, versions dated 5/26/2012, 8/7/2012, and 9/10/2012, scale 1:100,000.

#8228 Petra, 2007, Updated geotechnical fault investigation report for land planning purposes, approximately 2200-acre property (Lomas Del Sol), City of Coachella, Riverside County, California: Unpublished consultant's report, J.N. 4604-04, January 15, 2007, [AP-3413].

#8239 Riverside County, compiler, 2001, GIS files of recently active faults in Riverside County, California: Riverside County, unpublished digital compilation of recently active faults.

#8360 Ware, G.C., 1958, Geologic map of part of the Mecca Hills, Riverside County, California: Los Angeles, University of California, unpublished M.A. thesis.

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