

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](#).

San Felipe fault zone (Class A) No. 496

Last Review Date: 2017-07-01

citation for this record: Bryant, W.A., compiler, 2017, Fault number 496, San Felipe 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 03:09 PM.

Synopsis	
Name comments	
County(s) and State(s)	IMPERIAL COUNTY, CALIFORNIA RIVERSIDE COUNTY, CALIFORNIA SAN DIEGO COUNTY, CALIFORNIA
Physiographic province(s)	PACIFIC BORDER RANGES BASIN AND RANGE
Reliability of location	Compiled at 1:unspecified 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 Steely

	and others (2009).
Geologic setting	
Length (km)	170 km.
Average strike	
Sense of movement	Right lateral
Dip	
Paleoseismology studies	
Geomorphic expression	
Age of faulted surficial deposits	
Historic earthquake	
Most recent prehistoric deformation	late Quaternary (<130 ka) <i>Comments:</i>
Recurrence interval	
Slip-rate category	Unspecified
Date and Compiler(s)	2017 William A. Bryant, California Geological Survey
References	#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. #8300 Steely, A.N., Janecke, S.U., Dorsey, R.J., and Axen, G.J., 2009, Early Pleistocene initiation of the San Felipe fault zone, SW Salton Trough, during reorganization of the San Andreas fault system: Geological Society of America Bulletin, v. 121, p. 663–687.

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