

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](#).

Yuha Basin faults (Class A) No. 495

Last Review Date: 2017-07-01

citation for this record: Bryant, W.A., compiler, 2017, Fault number 495, Yuha Basin faults, 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 03:08 PM.

Synopsis	
Name comments	Fault ID: Refers to fault number 545 of Jennings (1994).
County(s) and State(s)	IMPERIAL COUNTY, CALIFORNIA
Physiographic province(s)	BASIN AND RANGE
Reliability of location	Compiled at 1: 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).

Geologic setting	
Length (km)	11 km.
Average strike	
Sense of movement	Left lateral, Normal
Dip	
Paleoseismology studies	
Geomorphic expression	
Age of faulted surficial deposits	
Historic earthquake	El Mayor-Cucapah earthquake 2010
Most recent prehistoric deformation	undifferentiated Quaternary (<1.6 Ma) <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. #8524 Rymer, M.J., Treiman, J.A., Kendrick, K.J., Lienkaemper, J.J., Weldon, R.J., Bilham, R., Wei, M., Fielding, E.J., Hernandez., J.L., Olson, B.P.E., Irvine, P.J., Knepprath, N., Sickler, R.R., Tong, X., and Siem, M.E., 2011, Triggered surface slips in southern California associated with the 2010 El Mayor-Cucapah, Baja California, Mexico, earthquake: U.S. Geological Survey Open-File Report 2010-1333, 49 p., http://pubs.er.usgs.gov/publication/ofr20101333 .

#8332 Treiman, J.A., 2012, Faults of the Yuha Desert and the southeastern portion of the Elsinore fault zone, Imperial County, California: California Geological Survey Fault Evaluation Report FER-254, 55 p., website, <ftp://ftp.consrv.ca.gov/pub/dmg/pubs/fer/254/>.

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