

## 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>.

## Lockhart fault (Class B) No. 2510

**Last Review Date: 1999-10-01** 

## Compiled in cooperation with the Utah Geological Survey

citation for this record: Black, B.D., and Hecker, S., compilers, 1999, Fault number 2510, Lockhart fault, 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 02:55 PM.

Synopsis	Poorly understood suspected Quaternary fault possibly related to collapse of Lockhart Basin in eastern Utah. Therefore, we have assigned it as a Class B structure, herein.		
Name comments	<b>Fault ID:</b> Refers to fault number 18-12 in Hecker (1993 #642).		
County(s) and State(s)	SAN JUAN COUNTY, UTAH		
Physiographic province(s)	COLORADO PLATEAUS		

Reliability of location					
location	Comments: Mapped or discussed by Woodward-Clyde Consultants (1982 #5025), and Huntoon (1988 #4994). Fault traces from 1:340,000-scale mapping of Woodward-Clyde Consultants (1982 #5025).				
Geologic setting					
Length (km)	16 km.				
Average strike	N42°E				
Sense of movement	Normal				
Dip Direction	NW; SE				
Paleoseismology studies					
Geomorphic expression					
Age of faulted surficial deposits	Quaternary(?).				
Historic earthquake					
Most recent prehistoric deformation	latest Quaternary (<15 ka)  Comments: Based on recency of sedimentation.				
Recurrence					

interval	
Slip-rate category	Less than 0.2 mm/yr
	1999 Bill D. Black, Utah Geological Survey Suzanne Hecker, U.S. Geological Survey
References	#642 Hecker, S., 1993, Quaternary tectonics of Utah with emphasis on earthquake-hazard characterization: Utah Geological Survey Bulletin 127, 157 p., 6 pls., scale 1:500,000.  #4994 Huntoon, P., 1988, Late Cenozoic gravity tectonic deformation related to the Paradox salts in the Canyonlands area of Utah, <i>in</i> Doelling, H.H., Oviatt, C.G., and Huntoon, P.W., eds., Salt deformation in the Paradox region: Utah Geological and Mineral Survey Bulletin 122, p. 79-93.  #5025 Woodward-Clyde Consultants, 1982, Geologic characterization report for the Paradox Basin study region, Utah study areas, volume II, Gibson Dome: Technical report to Battelle Memorial Institute, Office of Nuclear Waste Isolation, under Contract ONWI-290, variously paginated, scale 1:340,000.

## Questions or comments?

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