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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.

Red Canyon fault scarps (Class A) No. 2471

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 2471, Red Canyon fault scarps, 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 02:50 PM.**

Synopsis	Poorly understood Holocene(?) faults south of the Maple Grove faults [2443] at the southern end of Scipio Valley.
Name comments	**Fault ID:** Refers to fault number 9-33 of Hecker (1993 #642).
County(s) and State(s)	MILLARD COUNTY, UTAH SEVIER COUNTY, UTAH
Physiographic province(s)	COLORADO PLATEAUS
Reliability of	Good

location	Compiled at 1:250,000 scale. *Comments:* Fault traces from 1:250,000-scale mapping of Anderson and Bucknam (1979 #518).
Geologic setting	Generally north-trending normal fault that boundis the eastern side of the Pavant Range near the juncture of Scipio, Sanpete, and Sevier Valleys.
Length (km)	9 km.
Average strike	N20°W
Sense of movement	Normal
Dip Direction	E
Paleoseismology studies	
Geomorphic expression	Most scarps lie across steep colluvial and bedrock slopes and, as a result, are steep (35-40?) and sparsely vegetated, in comparison to gentler scarps formed where one of the faults crosses a subhorizontal stream terrace. The maximum measured displacement is 2.2 m.
Age of faulted surficial deposits	Holocene(?).
Historic earthquake	
Most recent prehistoric deformation	latest Quaternary (<15 ka) *Comments:*
Recurrence interval	
Slip-rate category	Less than 0.2 mm/yr
Date and Compiler(s)	1999 Bill D. Black, Utah Geological Survey Suzanne Hecker, U.S. Geological Survey

References	#518 Anderson, R.E., and Bucknam, R.C., 1979, Map of fault scarps in unconsolidated sediments, Richfield 1° x 2° quadrangle, Utah: U.S. Geological Survey Open-File Report 79-1236, 15 p. pamphlet, 1 sheet, scale 1:250,000. #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.