

# 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](#).

## Deseret faults (Class A) No. 2435

Last Review Date: 1999-10-01

## Compiled in cooperation with the Utah Geological Survey

*citation for this record:* Black, B.D., Hylland, M.D., and Hecker, S., compilers, 1999, Fault number 2435, Deseret 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 02:56 PM.

<b>Synopsis</b>	Includes several, poorly understood middle- and late-Quaternary faults that trend north near Black Rock (an outcrop of Quaternary basalt) in the Sevier Desert. Some individual faults have displacements ranging from about 3 to 15 m.
<b>Name comments</b>	<b>Fault ID:</b> Refers to fault number 8-2 of Hecker (1993 #642).
<b>County(s) and State(s)</b>	MILLARD COUNTY, UTAH
<b>Physiographic province(s)</b>	BASIN AND RANGE

<b>Reliability of location</b>	<p>Good Compiled at 1:100,000 scale.</p> <p><i>Comments:</i> Mapped or discussed by Oviatt (1989 #381) and Hintze and Davis (in preparation #4539). Fault traces from 1:100,000-scale mapping of Oviatt (1989 #381).</p>
<b>Geologic setting</b>	<p>Several north-trending normal faults around Black Rock (an outcrop of Quaternary basalt) in the Sevier Desert.</p> <p>Unconsolidated deposits in Sevier Desert are mainly lake deposits and alluvium.</p>
<b>Length (km)</b>	7 km.
<b>Average strike</b>	N1°W
<b>Sense of movement</b>	Normal
<b>Dip Direction</b>	W; E
<b>Paleoseismology studies</b>	
<b>Geomorphic expression</b>	<p>fault scarps are on basalt mantled by Lake Bonneville deposits. Individual faults have displacements ranging from about 3 to 15 m. Scarps pre-date Bonneville deposits, but post-date an early to middle Pleistocene basalt flow near Deseret, Utah. The abrupt, linear eastern boundary of the flows may mark the northern extension of the Clear Lake fault [2436].</p>
<b>Age of faulted surficial deposits</b>	Middle to late Pleistocene.
<b>Historic earthquake</b>	
<b>Most recent prehistoric deformation</b>	<p>middle and late Quaternary (&lt;750 ka)</p> <p><i>Comments:</i> Recurrent movement evidenced by 3- to 15-m-high scarps on middle to late Pleistocene basalt.</p>
<b>Recurrence interval</b>	
<b>Slip rate</b>	

<b>Slip-rate category</b>	Less than 0.2 mm/yr
<b>Date and Compiler(s)</b>	1999 Bill D. Black, Utah Geological Survey Michael D. Hylland, Utah Geological Survey Suzanne Hecker, U.S. Geological Survey
<b>References</b>	#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.  #381 Oviatt, C.G., 1989, Quaternary geology of part of the Sevier Desert, Millard County, Utah: Utah Geological and Mineral Survey Special Studies 70, 41 p., 1 pl., scale 1:100,000.

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