

# 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](#).

## Swasey Mountain (east side) faults (Class A) No. 2431

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 2431, Swasey Mountain (east side) 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>	Poorly understood middle and late Quaternary faults on the eastern side of Swasey Mountain on the west side of Whirlwind Valley.
<b>Name comments</b>	<b>Fault ID:</b> Refers to fault number 8-9 of Hecker (1993 #642).
<b>County(s) and State(s)</b>	MILLARD COUNTY, UTAH
<b>Physiographic</b>	

<b>Physiographic province(s)</b>	BASIN AND RANGE
<b>Reliability of location</b>	Good Compiled at 1:250,000 scale.  <i>Comments:</i> Fault traces from 1:250,000-scale mapping of Ertec Western, Inc. (Schell, 1981 #2844).
<b>Geologic setting</b>	Several short, northwest-trending normal faults east of Swasey Mountain on the west side of Whirlwind Valley. Swasey Mountain is at the north end of the Confusion Range, west of the House and Thomas Ranges in western Utah, and exposes mainly Cambrian sedimentary rock. Unconsolidated deposits in Whirlwind Valley are mainly lake sediments and alluvium.
<b>Length (km)</b>	4 km.
<b>Average strike</b>	N19°W
<b>Sense of movement</b>	Normal
<b>Dip Direction</b>	E
<b>Paleoseismology studies</b>	
<b>Geomorphic expression</b>	Scarps on alluvium (Schell, 1981#2844).
<b>Age of faulted surficial deposits</b>	Late Quaternary (Schell, 1981#2844).
<b>Historic earthquake</b>	
<b>Most recent prehistoric deformation</b>	middle and late Quaternary (<750 ka)  <i>Comments:</i>
<b>Recurrence interval</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

	Suzanne Hecker, U.S. Geological Survey
<b>References</b>	<p>#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.</p> <p>#2844 Schell, B.A., 1981, Faults and lineaments in the MX Siting Region, Nevada and Utah, Volume II: Technical report to U.S. Department of [Defense] the Air Force, Norton Air Force Base, California, under Contract FO4704-80-C-0006, November 6, 1981, 29 p., 11 pls., scale 1:250,000.</p>

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