

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](#).

Pavant Range fault (Class A) No. 2442

Last Review Date: 2004-07-01

Compiled in cooperation with the Utah Geological Survey

citation for this record: Black, B.D., Hylland, M.D., and Hecker, S., compilers, 2004, Fault number 2442, Pavant Range 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 02:56 PM.

Synopsis	Poorly understood Holocene (?) fault that bounds the western part of Scipio Valley. Timing based on the morphology of the fault scarps.
Name comments	Fault ID: Refers to fault number 8-21 of Hecker (1993 #642).
County(s) and State(s)	MILLARD COUNTY, UTAH
Physiographic province(s)	BASIN AND RANGE

Reliability of location	<p>Good Compiled at 1:62,500 scale.</p> <p><i>Comments:</i> Mapped or discussed by Bucknam and Anderson (1979 #517), Oviatt (1992 #4544), and Hintze and Davis (2002 #6754, 2003 #6741). Fault traces from 1:100,000-scale mapping of Oviatt (1992 #4544).</p>
Geologic setting	<p>North-trending range-front normal fault along the eastern base of the Pavant Range in western Scipio Valley. The fault zone is south of and on trend with the Scipio fault zone [2441], and both structures dip eastward beneath the valley. Scipio Valley is an elongate north-south graben bounded on the east and west by high-angle normal faults. Unconsolidated deposits in the valley are mainly lake deposits and alluvium.</p>
Length (km)	14 km.
Average strike	N3°W
Sense of movement	Normal
Dip Direction	E
Paleoseismology studies	
Geomorphic expression	<p>Scarps on colluvial-veneered bedrock. The scarps appear fresh, although scarps on alluvium at canyon mouths appear more subdued.</p>
Age of faulted surficial deposits	Holocene (?) alluvium and undifferentiated colluvium.
Historic earthquake	
Most recent prehistoric deformation	<p>latest Quaternary (<15 ka)</p> <p><i>Comments:</i> Based on scarp morphology (Bucknam and Anderson; 1979 #517).</p>
Recurrence interval	
Slip rate	

Slip-rate category	Less than 0.2 mm/yr
Date and Compiler(s)	2004 Bill D. Black, Utah Geological Survey Michael D. Hylland, Utah Geological Survey Suzanne Hecker, U.S. Geological Survey
References	<p>#517 Bucknam, R.C., and Anderson, R.E., 1979, Map of fault scarps on unconsolidated sediments, Delta 1° x 2° quadrangle, Utah: U.S. Geological Survey Open-File Report 79-366, 21 p. pamphlet, 1 sheet, scale 1:250,000.</p> <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>#6754 Hintze, L.F., and Davis, F.D., 2002, Geologic map of the Tule Valley 30' x 60' quadrangle and parts of the Ely, Fish Springs, and Kern Mountains 30' x 60' quadrangles, northwest Millard County, Utah: Utah Geological Survey Map 186, scale 1:100,000.</p> <p>#6741 Hintze, L.F., and Davis, F.D., 2003, Geology of Millard County, Utah: Utah Geological Survey Bulletin 133, 305 p.</p> <p>#4544 Oviatt, C.G., 1992, Quaternary geology of the Scipio Valley area, Millard and Juab Counties, Utah: Utah Geological Survey Special Studies 79, 16 p., scale 1:100,000.</p>

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