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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.

Sheeprock Mountains fault (Class A) No. 2419

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 2419, Sheeprock Mountains 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 Quaternary fault along the west flank of the Sheeprock Mountains.
Name comments	**Fault ID:** Refers to fault number 8-7 of Hecker (1993 #642).
County(s) and State(s)	JUAB COUNTY, UTAH TOOELE COUNTY, UTAH
Physiographic province(s)	BASIN AND RANGE
Reliability of	Good

location	Compiled at 1:250,000 scale. *Comments:* Fault traces from 1:250,000-scale mapping of Ertec Western, Inc. (Schell, 1981 #2844).
Geologic setting	Range-front normal fault along the west side of the Sheeprock Mountains. The Sheeprock Mountains are a northwest-trending mountain range in the Basin and Range south of and on-trend with the Stansbury and Onaqui Mountains, and mainly expose Precambrian metamorphic, Paleozoic sedimentary, and Tertiary volcanic rocks. Unconsolidated deposits west of the range front are mainly lake deposits and alluvium.
Length (km)	7 km.
Average strike	N37°W
Sense of movement	Normal
Dip Direction	SW
Paleoseismology studies	
Geomorphic expression	Range-front normal fault displacing alluvial-fan deposits along the western base of the Sheeprock Mountains.
Age of faulted surficial deposits	Early Pleistocene (Schell, 1981 #2844).
Historic earthquake	
Most recent prehistoric deformation	undifferentiated Quaternary (<1.6 Ma) *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	#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. #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.