

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](#).

Lookout Pass fault (Class A) No. 2404

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 2404, Lookout Pass 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 on the south side of Lookout Pass is characterized mainly by a bedrock-alluvium contact.
Name comments	Fault ID: Refers to fault number 7-6 of Hecker (1993 #642).
County(s) and State(s)	TOOELE COUNTY, UTAH
Physiographic province(s)	BASIN AND RANGE
Reliability of	Poor

location	Compiled at 1:100,000 scale. <i>Comments:</i> Fault traces from mapping of Moore and Sorensen (1979 #4512) (south side) and Sack (1993 #4514) (north side).
Geologic setting	North-trending normal fault west of Lookout Pass bordering Little Mountain north of Lookout Pass and between Red Pine Mountain and Lookout Pass to the south. Surficial geology of the range-front is dominated by alluvial-fan and lake sediments. Bedrock in the mountains to the east is mostly Paleozoic sedimentary rock.
Length (km)	4 km.
Average strike	N1°W
Sense of movement	Normal
Dip Direction	W
Paleoseismology studies	
Geomorphic expression	Bedrock-alluvium contact.
Age of faulted surficial deposits	Quaternary(?).
Historic earthquake	
Most recent prehistoric deformation	undifferentiated Quaternary (<1.6 Ma) <i>Comments:</i> Based on fault control of the bedrock-alluvium contact.
Recurrence interval	
Slip-rate category	Less than 0.2 mm/yr <i>Comments:</i> Poor geomorphic expression indicates a low slip rate.
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.

#4512 Moore, W.J., and Sorensen, M.L., 1979, Geologic map of the Tooele 1° x 2° quadrangle, Utah: U.S. Geological Survey Miscellaneous Investigations Map I-1132, scale 1:250,000.

#4514 Sack, D., 1993, Quaternary geologic map of Skull Valley, Tooele County, Utah: Utah Geological Survey Map 150, 16 p. pamphlet, scale 1:100,000.

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