

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](#).

Sage Valley fault (Class A) No. 2444

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 2444, Sage Valley 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 Quaternary(?) fault that bounds the eastern Sage Valley.
Name comments	Fault ID: Refers to fault number 13-14 of Hecker (1993 #642).
County(s) and State(s)	JUAB COUNTY, UTAH
Physiographic province(s)	BASIN AND RANGE
Reliability of	Good

location	Compiled at 1:24,000 scale. <i>Comments:</i> Fault traces simplified from 1:24,000-scale mapping of Clark (1990 #4547).
Geologic setting	West-dipping normal fault separating alluvium of Sage Valley from bedrock in the West Hills. The West Hills are in a transitional area between the Basin and Range and Colorado Plateaus provinces that is characterized by Cenozoic normal faulting superimposed on older thrust faulting.
Length (km)	11 km.
Average strike	N15°E
Sense of movement	Normal
Dip Direction	NW
Paleoseismology studies	
Geomorphic expression	The fault forms the contact between bedrock and alluvium along much of its length; an eroded set of triangular facets forms a fault-line scarp along the southern portion of the fault. At its southern termination, the fault cuts "older" alluvial-fan deposits.
Age of faulted surficial deposits	Quaternary(?)
Historic earthquake	
Most recent prehistoric deformation	undifferentiated Quaternary (<1.6 Ma) <i>Comments:</i>
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

#4547 Clark, D.L., 1990, Provisional geologic map of the Juab quadrangle, Juab County, Utah: Utah Geological and Mineral Survey Map 132, 14 p. pamphlet, scale 1:24,000.

#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.

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