

# 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](#).

## Snake Valley faults (Class A) No. 2428

Last Review Date: 2005-11-29

### Compiled in cooperation with the Utah Geological Survey

*citation for this record:* Black, B.D., Hylland, M.D., Redsteer, M.H., and Hecker, S., compilers, 2005, Fault number 2428, Snake Valley 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 02:55 PM.

<b>Synopsis</b>	Poorly understood Holocene to late Pleistocene faults in Snake Valley, which lies between the Deep Creek Mountains and Confusion Range in western Utah.
<b>Name comments</b>	<b>Fault ID:</b> Refers to fault number 8-12 of Hecker (1993 #642).
<b>County(s) and State(s)</b>	WHITE PINE COUNTY, NEVADA MILLARD COUNTY, UTAH
<b>Physiographic province(s)</b>	BASIN AND RANGE

<b>Reliability of location</b>	Poor Compiled at 1:250,000 scale.  <i>Comments:</i> The faults are mapped by Hood and Rush (1965 #4538), Ertec Western, Inc. (1981 #2844), and Hintze and Davis (in preparation #4539), but not by Bucknam and Anderson (1979 #517). Fault traces from mapping of Ertec Western, Inc. (Schell, 1981 #2844) and Hintze and Davis (in preparation #4539).
<b>Geologic setting</b>	Generally north-trending valley-floor faults in Snake Valley. Snake Valley lies between the Deep Creek Mountains and Confusion Range in western Utah. Unconsolidated deposits in the valley are mainly lake sediments and alluvium.
<b>Length (km)</b>	46 km.
<b>Average strike</b>	N2°E
<b>Sense of movement</b>	Normal
<b>Dip Direction</b>	E
<b>Paleoseismology studies</b>	
<b>Geomorphic expression</b>	Ertec Western, Inc. (Schell, 1981 #2844) measured a maximum scarp slope angle of 7°, possibly suggesting an old age (if the scarp was very small). However, the faults cut "young" alluvial-fan deposits (Schell, 1981 #2844) and post-Lake Bonneville alluvium (Hintze and Davis, in preparation #4539).
<b>Age of faulted surficial deposits</b>	The faults cut "young" (Holocene) alluvial-fan deposits (Schell, 1981 #2844) and latest Pleistocene to Holocene post-Lake Bonneville alluvium (Hintze and Davis, in preparation #4539).
<b>Historic earthquake</b>	
<b>Most recent prehistoric deformation</b>	latest Quaternary (<15 ka)  <i>Comments:</i> Timing based on offset of latest Pleistocene to Holocene alluvium (Hintze and Davis, in preparation #4539).
<b>Recurrence interval</b>	
<b>Slip rate</b>	

<b>Slip-rate category</b>	Less than 0.2 mm/yr
<b>Date and Compiler(s)</b>	2005 Bill D. Black, Utah Geological Survey Michael D. Hylland, Utah Geological Survey Margaret Hisa Redsteer, U.S. Geological Survey Suzanne Hecker, U.S. Geological Survey
<b>References</b>	<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>#4538 Hood, J.W., and Rush, F.E., 1965, Water-resources appraisal of the Snake Valley area, Utah and Nevada: Utah State Engineer Technical Publication No. 14, 43 p.</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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