

# 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](#).

## Raft River Mountains fault (Class A) No. 2448

Last Review Date: 1999-10-01

### Compiled in cooperation with the Idaho Geological Survey and the Utah Geological Survey

*citation for this record:* Black, B.D., and Hecker, S., compilers, 1999, Fault number 2448, Raft River 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 02:56 PM.

<b>Synopsis</b>	Poorly understood middle to late Pleistocene(?) fault in the Raft River Mountains. The fault is in both Utah and Idaho.
<b>Name comments</b>	<b>Fault ID:</b> Refers to fault number 6-17 of Hecker (1993 #642).
<b>County(s) and State(s)</b>	BOX ELDER COUNTY, UTAH
<b>Physiographic province(s)</b>	BASIN AND RANGE

<b>Reliability of location</b>	Poor Compiled at 1:125,000 scale.  <i>Comments:</i> Mapped by Compton (1972 #4496) and Doelling (1980 #4482). Utah fault traces from 1:125,000-scale mapping of Doelling (1980)
<b>Geologic setting</b>	North-trending normal fault near the Utah-Idaho border along the northeastern side of the Raft River Mountains. The Raft River Mountains have a core of Precambrian metamorphic rocks and an anamous east-west trend, similar to the Uinta Mountains. Northern slopes of the mountains drain into the Snake River and are considered part of the Snake River Plain, rather than the Great Basin.
<b>Length (km)</b>	2 km.
<b>Average strike</b>	N1°E
<b>Sense of movement</b>	Normal
<b>Dip Direction</b>	E
<b>Paleoseismology studies</b>	
<b>Geomorphic expression</b>	Faulted alluvium.
<b>Age of faulted surficial deposits</b>	Middle to late Pleistocene(?)
<b>Historic earthquake</b>	
<b>Most recent prehistoric deformation</b>	middle and late Quaternary (<750 ka)  <i>Comments:</i>
<b>Recurrence interval</b>	
<b>Slip-rate category</b>	Less than 0.2 mm/yr
<b>Date and</b>	1999

<b>Compiler(s)</b>	Bill D. Black, Utah Geological Survey Suzanne Hecker, U.S. Geological Survey
<b>References</b>	<p>#4496 Compton, R.R., 1972, Geologic map of the Yost quadrangle, Box Elder County, Utah and Cassia County, Idaho: U.S. Geological Survey Miscellaneous Investigations Map I-672, scale 1:31,680.</p> <p>#4482 Doelling, H.H., 1980, Geology and mineral resources of Box Elder County, Utah: Utah Geological and Mineral Survey Bulletin 115, 251 p., 1 pl., scale 1:125,000.</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>

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