

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](#).

Pine Creek Valley fault (Class A) No. 697

Last Review Date: 1996-03-05

Compiled in cooperation with the Montana Bureau of Mines and Geology

citation for this record: Haller, K.M., compiler, 1996, Fault number 697, Pine Creek 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 02:02 PM.

Synopsis	Fault is poorly studied, no known studies have been completed. Sole source of data is Witkind (1975 #317).
Name comments	Fault as shown by Witkind (1975 #317) extends about 3 km west of Pine Creek. Fault ID: Refers to number 195 (Pine Creek Valley fault) of Witkind (1975 #317).
County(s) and State(s)	LINCOLN COUNTY, MONTANA
Physiographic	

Physiographic province(s)	NORTHERN ROCKY MOUNTAINS
Reliability of location	Poor Compiled at 1:250,000 scale. <i>Comments:</i> Location of fault based on 1:500,000-scale map of Witkind (1975 #317).
Geologic setting	Short, right-lateral, intrabasin fault.
Length (km)	3 km.
Average strike	N85°E
Sense of movement	Right lateral <i>Comments:</i> (Witkind, 1975 #317)
Dip Direction	Unknown
Paleoseismology studies	
Geomorphic expression	
Age of faulted surficial deposits	
Historic earthquake	
Most recent prehistoric deformation	undifferentiated Quaternary (<1.6 Ma) <i>Comments:</i> Witkind (1975 #317) cites W. Johns as the source of the data pertaining to this fault including the age assignment of late Pleistocene. We use a conservative age here based on the absence of published data.
Recurrence interval	
Slip-rate category	Less than 0.2 mm/yr <i>Comments:</i> Inferred low slip rate is based on the absence of data that indicate late Quaternary slip.

Date and Compiler(s)	1996 Kathleen M. Haller, U.S. Geological Survey
References	#317 Witkind, I.J., 1975, Preliminary map showing known and suspected active faults in western Montana: U.S. Geological Survey Open-File Report 75-285, 36 p. pamphlet, 1 sheet, scale 1:500,000.

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