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 <u>interactive fault map</u>.

South Horse Prairie basin fault (Class A) No. 650

Last Review Date: 1993-03-31

Compiled in cooperation with the Idaho Geological Survey and the Montana Bureau of Mines and Geology

citation for this record: Haller, K.M., compiler, 1993, Fault number 650, South Horse Prairie basin 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 02:03 PM.

History of fault is poorly known, no detailed studies have been completed. Sole source of data is Ostenaa and Wood (1990 #318).
Fault shown in Ostenaa and Wood (1990 #318). Fault extends
from northern end of bedrock spur in Beaverhead Mountains,
west of Horse Prairie Creek, to south of Cruikshank Creek.
Foult ID. Not shown in any provious compilation

County(s) and State(s)	BEAVERHEAD COUNTY, MONTANA LEMHI COUNTY, IDAHO
Physiographic province(s)	NORTHERN ROCKY MOUNTAINS
Reliability of location	Poor Compiled at 1:250,000 scale.
	and Wood (1990 #318).
Geologic setting	High-angle, down-to-west, normal fault along eastern side of Horse Prairie basin in the northern Beaverhead Mountains. No known estimates of total displacement exist.
Length (km)	25 km.
Average strike	N2°E
Sense of movement	Normal
	Comments: (Ostenaa and Wood, 1990 #318)
Dip Direction	W
Dip Direction Paleoseismology studies	W
Dip Direction Paleoseismology studies Geomorphic expression	W Ostenaa and Wood (1990 #318) report no evidence of late Quaternary movement but Quaternary deposits have limited aerial extent along the fault.
Dip Direction Paleoseismology studies Geomorphic expression Age of faulted surficial deposits	W Ostenaa and Wood (1990 #318) report no evidence of late Quaternary movement but Quaternary deposits have limited aerial extent along the fault.
Dip Direction Paleoseismology studies Geomorphic expression Age of faulted surficial deposits Historic earthquake	W Ostenaa and Wood (1990 #318) report no evidence of late Quaternary movement but Quaternary deposits have limited aerial extent along the fault.
Dip Direction Paleoseismology studies Geomorphic expression Age of faulted surficial deposits Historic earthquake	W Ostenaa and Wood (1990 #318) report no evidence of late Quaternary movement but Quaternary deposits have limited aerial extent along the fault. undifferentiated Quaternary (<1.6 Ma)

Recurrence interval	
Slip-rate	Less than 0.2 mm/yr
category	
	Comments: Inferred low slip rate based on absence of evidence
	for late Quaternary movement.
Date and	1993
Compiler(s)	Kathleen M. Haller, U.S. Geological Survey
References	#318 Ostenaa, D., and Wood, C., 1990, Seismotectonic study for
	Clark Canyon Dam, Pick-Sloan Missouri Basin Program,
	Montana: U.S. Bureau of Reclamation Seismotectonic Report 90-
	4, 78 p., 1 pl.

Questions or comments?

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