

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](#).

White Mountain area faults (Class A) No. 2451

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 2451, White Mountain area 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 02:56 PM.

Synopsis	Poorly understood Quaternary(?) faults in the White Mountain area south of the Snow Lake graben [2452].
Name comments	Fault ID: Refers to fault number 13-15 of Hecker (1993 #642).
County(s) and State(s)	SANPETE COUNTY, UTAH SEVIER COUNTY, UTAH
Physiographic province(s)	COLORADO PLATEAUS
Reliability of	Poor

location	Compiled at 1:100,000 scale. <i>Comments:</i> Fault traces from 1:100,000-scale mapping of Witkind and others (1987 #4550).
Geologic setting	Generally north-trending normal faults in Tertiary Flagstaff Limestone in the southern Wasatch Plateau, south of and roughly on trend with the Snow Lake graben [2452].
Length (km)	16 km.
Average strike	N5°W
Sense of movement	Normal
Dip Direction	W; E
Paleoseismology studies	
Geomorphic expression	Fault-controlled escarpments on the Flagstaff Limestone. Several lakes are impounded behind the escarpments.
Age of faulted surficial deposits	Tertiary Flagstaff Limestone (Witkind and others, 1987 #4550).
Historic earthquake	
Most recent prehistoric deformation	undifferentiated Quaternary (<1.6 Ma) <i>Comments:</i> Based on escarpment drainage disruption.
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	#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.

#4550 Witkind, I.J., Weiss, M.P., and Brown, T.L., 1987,
Geologic map of the Manti 30' x 60' quadrangle, Carbon, Emery,
Juab, Sanpete, and Sevier Counties, Utah: U.S. Geological Survey
Miscellaneous Investigations Map I-1631, scale 1:100,000.

[Questions or comments?](#)

[Facebook](#) [Twitter](#) [Google](#) [Email](#)

[Hazards](#)

[Design Ground Motions](#)[Seismic Hazard Maps & Site-Specific Data](#)[Faults](#)[Scenarios](#)

[Earthquakes](#)[Hazards](#)[Data](#)[Education](#)[Monitoring](#)[Research](#)

[Home](#)[About Us](#)[Contacts](#)[Legal](#)