

## **2451, WHITE MOUNTAIN AREA FAULTS**

**Structure number:** 2451.

Comments: Hecker's (1993) fault number 13-15.

**Structure name:** White Mountain area faults.

Comments:

**Synopsis:** Poorly understood Quaternary(?) faults in the White Mountain area south of the Snow Lake graben (2452).

**Date of compilation:** 10/99.

**Compiler and affiliation:** Bill D. Black (Utah Geological Survey) and Suzanne Hecker (U.S. Geological Survey).

**State:** Utah.

**County:** Sevier.

**1° x 2° sheet:** Price.

**Province:** Colorado Plateaus.

**Reliability of location:** Poor.

Comments: Mapping from Witkind and others (1987).

**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).

**Sense of movement:** N.

Comments:

**Dip:** No data.

Comments:

**Dip direction:** W and E.

**Geomorphic expression:** Fault-controlled escarpments in the Flagstaff Limestone. Several lakes are impounded behind the escarpments.

**Age of faulted deposits:** Tertiary.

**Paleoseismology studies:** None.

**Timing of most recent paleoevent:** (5) Quaternary (<1.6 Ma).

Comments: Based on escarpment drainage disruption.

**Recurrence interval:** No data.

Comments:

**Slip rate:** Unknown, probably <0.2 mm/yr.

Comments:

**Length:** End to end (km): 16

Cumulative trace (km): 42

**Average strike (azimuth):** N5°W

## **REFERENCES**

Hecker, Suzanne, 1993, Quaternary tectonics of Utah with emphasis on earthquake-hazard characterization: Utah Geological Survey Bulletin 127, 2 plates, scale 1:500,000, 257 p.

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 Series Map I-1631, scale 1:100,000.