

# 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](#).

## Deadman Wash faults (Class A) No. 964

Last Review Date: 1997-01-07

### Compiled in cooperation with the Arizona Geological Survey

*citation for this record:* Pearthree, P.A., compiler, 1997, Fault number 964, Deadman Wash 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 03:13 PM.

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| <b>Synopsis</b>      | Three short, north-trending normal faults displace a lower Pleistocene basalt flow by less than 6 m. Two scarps are down to the west, the other is down to the east. These faults do not cut uppermost lower Pleistocene (800 ka) tephra deposits, so evidently they have not been active in the middle or late Quaternary. |
| <b>Name comments</b> | Mapped by Menges and Pearthree (1983 #2073), who grouped these faults with others in the area as the Wupatki faults; the Deadman Wash faults were later separated from the larger group of faults and named by Pearthree and others (1996 #2153) because they evidently have not been active as recently as other           |

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|  | faults of the group. The geology of the area was mapped by Moore and Wolfe (1987 #2152).   |
| <b>County(s) and State(s)</b>            | COCONINO COUNTY, ARIZONA   |
| <b>Physiographic province(s)</b>         | COLORADO PLATEAUS  |
| <b>Reliability of location</b>           | Good<br>Compiled at 1:250,000 scale.<br><br><i>Comments:</i> Trace mapped at 1:50,000 scale, transferred to 1:250,000-scale topographic base map.  |
| <b>Geologic setting</b>                  | The Deadman Wash faults are one of several fault zones located near the northeastern margin of the Plio-Quaternary San Francisco volcanic field, on the bedrock erosion surface that slopes from the Mogollon Rim northeast to the Little Colorado River. The Deadman Wash faults displace a lower Pleistocene basalt flow but do not cut uppermost lower Pleistocene (800 ka) tephra deposits derived from the San Francisco Mountains stratovolcano. |
| <b>Length (km)</b>                       | 2 km.  |
| <b>Average strike</b>                    | N38°W  |
| <b>Sense of movement</b>                 | Normal<br><br><i>Comments:</i> Predominantly normal movement inferred from topographic and regional relations.   |
| <b>Dip Direction</b>                     | SW; NE   |
| <b>Paleoseismology studies</b>           |  |
| <b>Geomorphic expression</b>             | Three weakly expressed, low (<6-m-high) fault scarps formed on a lower Pleistocene basalt flow.  |
| <b>Age of faulted surficial deposits</b> | Early Pleistocene basalt flow  |
| <b>Historic earthquake</b>               |  |

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| <b>Most recent prehistoric deformation</b> | undifferentiated Quaternary (<1.6 Ma)<br><br><i>Comments:</i> Displacement of a lower Pleistocene basalt flow indicates early Quaternary activity, but absence of displacement of 800 ka tephra deposits indicates no activity in the middle to late Quaternary (<750 ka).  |
| <b>Recurrence interval</b>                 |   |
| <b>Slip-rate category</b>                  | Less than 0.2 mm/yr<br><br><i>Comments:</i> No evidence of middle or late Quaternary activity, so slip rate for past 750 ka is very low or zero.  |
| <b>Date and Compiler(s)</b>                | 1997<br>Philip A. Pearthree, Arizona Geological Survey  |
| <b>References</b>                          | #2073 Menges, C.M., and Pearthree, P.A., 1983, Map of neotectonic (latest Pliocene-Quaternary) deformation in Arizona: Arizona Geological Survey Open-File Report 83-22, 48 p., scale 1:500,000.<br><br>#2152 Moore, R.B., and Wolfe, E.W., 1987, Geologic map of the east part of the San Francisco Volcanic Field, north-central Arizona: U.S. Geological Survey Miscellaneous Field Studies Map MF-1960, 2 sheets, scale 1:50,000.<br><br>#2153 Pearthree, P.A., Vincent, K.R., Brazier, R., and Hendricks, D.M., 1996, Plio-Quaternary faulting and seismic hazard in the Flagstaff area, northern Arizona: Arizona Geological Survey Bulletin 200, 40 p., 2 pls. |

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