

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](#).

Spring Creek fault (Class A) No. 738

Last Review Date: 1994-06-03

citation for this record: McCalpin, J.P., compiler, 1994, Fault number 738, Spring Creek 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 02:01 PM.

| | |
|----------------------------------|--|
| Synopsis | One of many short, west-dipping normal faults along west side of Bear River Divide that parallel east-directed thrust faults in Mesozoic sedimentary rocks in this part of the Overthrust Belt. This short normal fault displaces rock of the Tertiary Wasatch Formation and an overlying erosion surface. |
| Name comments | Unnamed in compilation of Gibbons and Dickey (1983). The informal name Spring Creek fault has been applied by J.P. McCalpin to this structure. Fault only extends about 2 km southwest from Spring Creek. |
| County(s) and State(s) | LINCOLN COUNTY, WYOMING |
| Physiographic province(s) | MIDDLE ROCKY MOUNTAINS |
| Reliability of | Good |

| | |
|--|--|
| location | Compiled at 1:250,000 scale. <i>Comments:</i> Mapped in reconnaissance (1:100,000 scale) by Gibbons and Dickey (1983 #821). Fault traces recompiled at 1:250,000-scale on map with topographic base. |
| Geologic setting | One of many short, west-dipping normal faults along west side of Bear River Divide that parallel east-directed thrust faults in Mesozoic sedimentary rock in this part of the Laramide Overthrust Belt. |
| Length (km) | 2 km. |
| Average strike | N25°E |
| Sense of movement | Normal <i>Comments:</i> Shown as normal by Gibbons and Dickey (1983 #821). |
| Dip Direction | NW |
| Paleoseismology studies | |
| Geomorphic expression | No fault scarps are known to exist, but the fault lies at the base of somewhat linear west-facing escarpment on rock of the Tertiary Wasatch Formation. |
| Age of faulted surficial deposits | Tertiary Wasatch Formation and an overlying erosion surface of unknown age; deformation of Quaternary deposits not documented. |
| Historic earthquake | |
| Most recent prehistoric deformation | undifferentiated Quaternary (<1.6 Ma) <i>Comments:</i> Gibbons and Dickey (1983 #821) suggested Quaternary movement (probably on the basis of the faults proximity to the escarpment), but no specific justification was given. |
| Recurrence interval | |
| Slip-rate | Less than 0.2 mm/yr |

| | |
|-----------------------------|--|
| category | <i>Comments:</i> Low slip-rate category inferred based on absence of scarps and data to indicate otherwise. |
| Date and Compiler(s) | 1994 James P. McCalpin, GEO-HAZ Consulting, Inc. |
| References | #821 Gibbons, A.B., and Dickey, D.D., 1983, Quaternary faults in Lincoln and Uinta Counties, Wyoming, and Rich County, Utah: U.S. Geological Survey Open-File Report 83-288, 1 sheet, 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](#)