

# 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](#).

## Ogden Valley northeastern margin fault (Class A) No. 2379

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 2379, Ogden Valley northeastern margin 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 02:58 PM.

<b>Synopsis</b>	Poorly understood Quaternary(?) fault along the northeastern margin of Ogden Valley.
<b>Name comments</b>	<b>Fault ID:</b> Refers to fault number 11-15 of Hecker (1993 #642).
<b>County(s) and State(s)</b>	WEBER COUNTY, UTAH
<b>Physiographic province(s)</b>	MIDDLE ROCKY MOUNTAINS

<b>Reliability of location</b>	Poor Compiled at 1:125,000 scale.  <i>Comments:</i> Mapped or discussed by Sorenson and Crittenden (1979 #4510) and Sullivan and others (1988 #4508). Fault traces from mapping of Sullivan and others (1988 #4508).
<b>Geologic setting</b>	Northwest-trending range-front normal fault along the eastern side of Ogden Valley. Ogden Valley is one of several "back valleys of the Wasatch," a line of discontinuous valleys in the Wasatch Hinterlands east of the Wasatch Range.
<b>Length (km)</b>	13 km.
<b>Average strike</b>	N40°W
<b>Sense of movement</b>	Normal
<b>Dip Direction</b>	SW
<b>Paleoseismology studies</b>	
<b>Geomorphic expression</b>	Range-front normal fault. The morphology of the range front suggested an absence of late Quaternary faulting to Sullivan and others (1988 #4508). Sorenson and Crittenden (1979 #4510) mapped fault scarps on Holocene colluvium that Sullivan and others (1988 #4508) interpret as shallow landslide scarps.
<b>Age of faulted surficial deposits</b>	Quaternary (?).
<b>Historic earthquake</b>	
<b>Most recent prehistoric deformation</b>	undifferentiated Quaternary (<1.6 Ma)  <i>Comments:</i> Based on range-front morphology
<b>Recurrence interval</b>	
<b>Slip-rate category</b>	Less than 0.2 mm/yr  <i>Comments:</i> The absence of late Quaternary faulting indicates a

	low slip rate.
<b>Date and Compiler(s)</b>	1999 Bill D. Black, Utah Geological Survey Suzanne Hecker, U.S. Geological Survey
<b>References</b>	#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.  #4510 Sorensen, M.L., and Crittenden, M.D., Jr., 1979, Geologic map of the Huntsville quadrangle, Weber and Cache Counties, Utah: U.S. Geological Survey Geologic quadrangle Map GQ-1503, scale 1:24,000.  #4508 Sullivan, J.T., Nelson, A.R., LaForge, R.C., Wood, C.K., and Hansen, R.A., 1988, Central Utah regional seismotectonic study for USBR dams in the Wasatch Mountains: Bureau of Reclamation Seismotectonic Report 88-5, 269 p.

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