

# 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](#).

## unnamed faults north of Hermanas (Class A) No. 2076

Last Review Date: 2016-01-06

### Compiled in cooperation with the New Mexico Bureau of Geology & Mineral Resources

*citation for this record:* Machette, M.N., and Jochems, A.P., compilers, 2016, Fault number 2076, unnamed faults north of Hermanas, 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 02:22 PM.

<b>Synopsis</b>	Little is known about these faults other than they offset Pliocene to Quaternary deposits of the Mimbres Formation. No detailed studies address the faults or their surface expression.
<b>Name comments</b>	These faults are shown by Seager (1995 #975) as a broad zone on the northeast flank of the Cedar Mountains, about 7 km north-northeast of Hermanas, New Mexico.
<b>County(s) and State(s)</b>	LUNA COUNTY, NEW MEXICO
<b>Physiographic</b>	

<b>Physiographic province(s)</b>	BASIN AND RANGE
<b>Reliability of location</b>	Good Compiled at 1:24,000 scale.  <i>Comments:</i> Mapped using generalized trace of the fault from 1:125,000-scale map of Seager (1995 #975) combined with accurate placement using photogrammetric methods.
<b>Geologic setting</b>	These faults lie along the southwestern margin of the Hermanas basin (Seager, 1995 #975) and northeast flank of the Cedar Mountains. They are primarily down to the east-northeast, toward the center of the basin.
<b>Length (km)</b>	5 km.
<b>Average strike</b>	N16°W
<b>Sense of movement</b>	Normal
<b>Dip Direction</b>	E  <i>Comments:</i> Although no dips are shown on the map of Seager (1995 #975), his cross section F showed the faults as having a high-angle dip.
<b>Paleoseismology studies</b>	
<b>Geomorphic expression</b>	No information is available about the geomorphic expression of the faults other than their presence at the surface. No detailed studies address the faults or their surface expression.
<b>Age of faulted surficial deposits</b>	These faults offset deposits of Miocene conglomerates and the Mimbres Formation (Pliocene to Pleistocene) according to mapping of Seager (1995 #975). The Mimbres is largely correlative with the Palomas and Camp Rice formations to the east.
<b>Historic earthquake</b>	
<b>Most recent prehistoric deformation</b>	undifferentiated Quaternary (<1.6 Ma)  <i>Comments:</i> The faults are considered to be Quaternary in age

	because they are present at the surface and because the upper part of the Mimbres is reported to be Quaternary in age.
<b>Recurrence interval</b>	
<b>Slip-rate category</b>	Less than 0.2 mm/yr  <i>Comments:</i> A low slip rate is inferred from the small apparent offset associated with the Quaternary (?) surface of the Mimbres Formation and from rates of more conspicuous Quaternary faults in the region.
<b>Date and Compiler(s)</b>	2016 Michael N. Machette, U.S. Geological Survey, Retired Andrew P. Jochems, New Mexico Bureau of Geology & Mineral Resources
<b>References</b>	#975 Seager, W.R., 1995, Geology of southwest quarter of Las Cruces and northwest El Paso 1° x 2° sheets, New Mexico: New Mexico Bureau of Mines and Mineral Resources Geologic Map 60, 5 sheets, scale 1:125,000.

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