2.5 Mag. Earthquake, Rio Grande, Ohio - 3/20/2023

M 2.5 - Ohio



ISO	
USA	
Region	
Ohio	
Country	
United States	
Nearby Places	
Rio Grande, Ohio, United States	
16.3 km (10.1 mi) NNE	Population: 854
Ironton, Ohio, United States	
31.4 km (19.5 mi) SW	Population: 10900
Ashland, Kentucky, United States	
34.1 km (21.2 m) SSW	Population: 21108
Huntington, West Virginia, United States	
35.4 km (22 m) S	Population: 48638
Charleston, West Virginia, United States	
81.6 km (50.7 m) ESE	Population: 49736
Distance and direction from epicenter to nearby place.	

mic zone of eastern Quebec, in New England, in the New York - Philadelphia - Wilmington urban corridor, an out an earthquake large enough to be felt, and several U.S. states have never reported a damaging earthquake

ent than in the West, are typically felt over a much b e than ten times larger than a similar magnitude earthquake on the west coast. It would not be unusual for a magnitude 4.0 earthqu ake in eastern or central North America to be felt by a 0 mi) from its source. Earthquakes east of the Rockies that are

a east of the Rockies occur as faulting within be ntrast to the situation at plate boundaries such as California's San Andreas fault system, where scientists can co contry use declodic evidence to identify a fault that has produced a large earthquake and that is ited under the cu as, and few of these faults are known to have been active in the current geologic era. In most areas east of the

sufficiently to induce faulting. Activities that have induced felt earthquakes in some geologic env ments have included impoundment of water behind dams, injection of fluid into the earth's crust, extraction of of rock in mining or quarrying operations. In much of eastern and central North America, the number of ear kes, but in some regions, such as the south-central states of the U.S., a significant majority of recent earthquakes are thought by many sei duced. Even within area gists to have bee n-induced earthquakes, however, the activity that seems to induce seismicity at one location may be taking place at many other locations without inducing felt earthquakes. In addition, regions with uakes may also be subject to damaging earthquakes that would have oc dently of human activity. Making a strong ientific case for a causative link between a particular hi ctivity and a particular sequence of earthquakes typically involves special studies devoted specifically to the question. Such fress the process by which the susp ave significantly altered stresses in the bedrock at the earthquake source, and they commonly address the ways in which the o stics of natural earthquakes in the re-

38.5'N 83'W





USGS Community Internet Intensity Map OHIO 2023-03-20 22:54:26 UTC 38.7377N 82.4288W M2.5 Depth: 5 km ID:se60500543



Legend





024 8 12 16







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