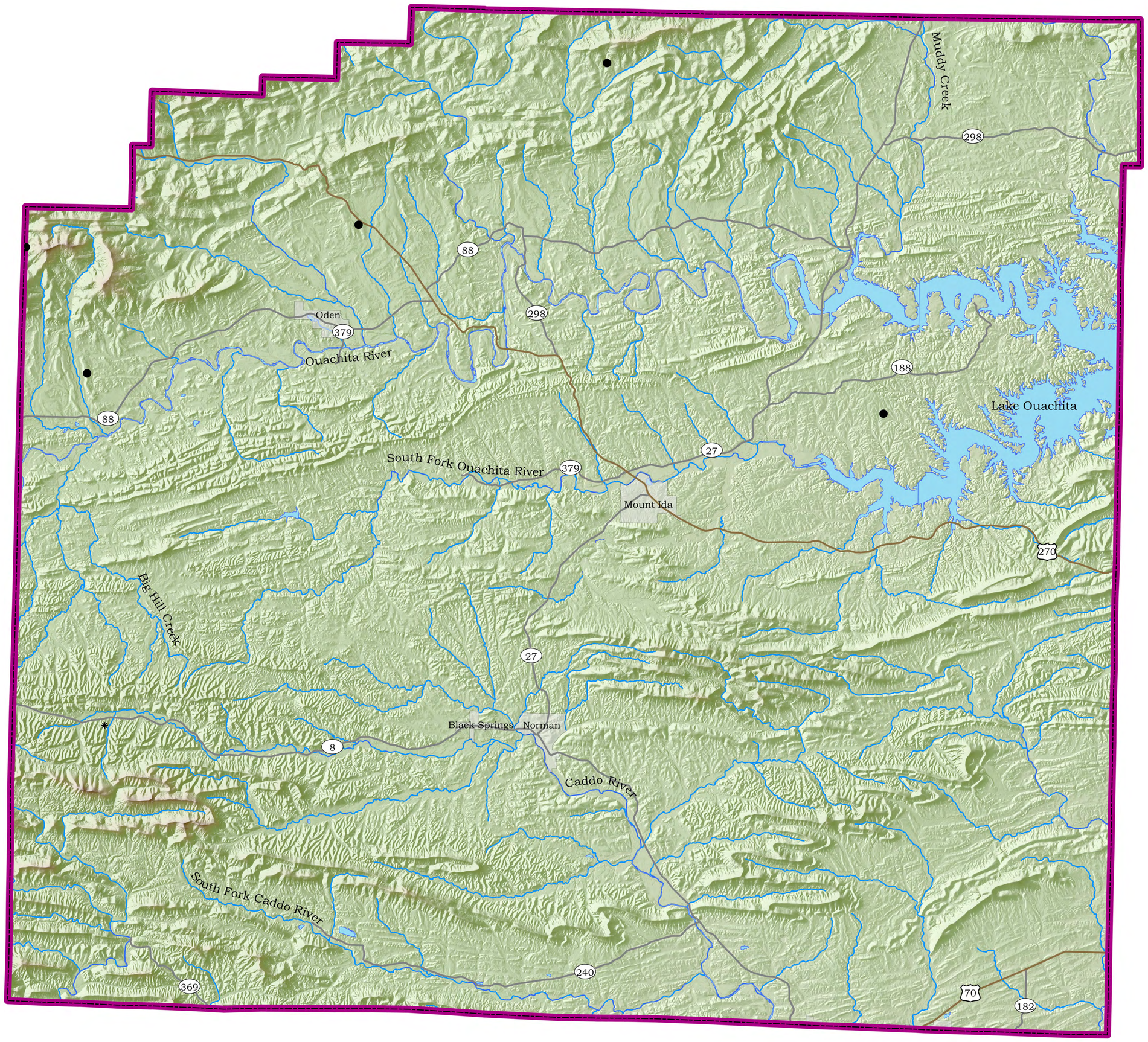
Office of the State Geologist
Scott Ausbrooks, Director and State Geologist

GH-EQ-CO097-031

Montgomery County Seismicity Map



About the Map

This map illustrates the location and magnitude of reported earthquakes that have occurred in Montgomery County Arkansas from 1977 to Present. The data source for the earthquakes depicted on this map is derived from the Office of the State Geologist (OSG) earthquake catalog. The catalog has been compiled from various sources and publications and includes date, time, latitude, longitude, magnitude or intensity and depth information. Some event records may contain incomplete data due to their date and/or source. The OSG earthquake catalog is dynamic and continually updated as event parameters are modified, new events are added, and occasionally, events are deleted. The seismic areas/zones illustrated on this map are derived from various geologic sources and publications on file at the OSG. Depicted seismic areas/zones are for illustration purposes only and may not represent all the seismically active features within a given location or relate to the origin of the earthquakes depicted on this map.

References

Arkansas Gazette newspaper (Ceased publication in 1991).

Center for Earthquake Research and Information (CERI) - New Madrid Earthquake Catalog: URL: http://folkworm.ceri.memphis.edu/catalogs/html/cat_nm.html

Tennessee Earthquake Information Center (TEIC) – succeeded by University of Memphis Center for Earthquake Research and Information (CERI) – taken from CERI New Madrid Earthquake Catalog. URL: http://www.ceri.memphis.edu/seismic/catalogs/cat_nm.html

United States Geological Survey USGS) Earthquake Notification Service (ENS).

The 1M Multidirectional Hillshade or Digital Slope Model base used in the making of this map was created by the Office of the State Geologist (OSG) using the 1meter Lidar data acquired from the United States Geological Survey (USGS).

Earthquake Magnitudes

- 0.0 - 1.9
- 2.0 - 2.9

Symbols

- US Highways
- State Highways
- Incorporated Areas
- Water

Montgom
New Ma
area (sh
Departm
New Ma

Disclaimer

Although this map was compiled from digital data that was successfully processed on a computer system using ESRI Pro 3.x software at the Office of the State Geologist (OSG), no warranty, expressed or implied, is made by the OSG regarding the unity of the data on any other system, nor shall the act of distribution constitute any such warranty. The OSG does not guarantee this map or digital data to be free of errors or assume liability for interpretations from this map or digital data, or decisions based thereon.

The views and conclusions contained in this document are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the Office of the State Geologist (OSG).

Scale

1 0.5 0 1 2 3 4 5 6 7 8 9 10 Miles

1 0.5 0 1 2 3 4 5 6 7 8 9 10 Kilometers

N

Scott M. Ausbrook
David H. Johnston
2014

Revision Date:	Scale:	Digital Compilation:	Updated:
19 November 2025	1 : 75,000	Jerry W. Clark	