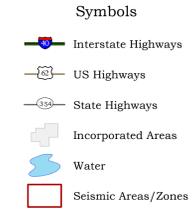
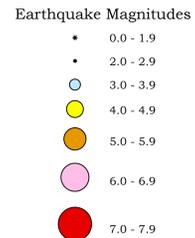
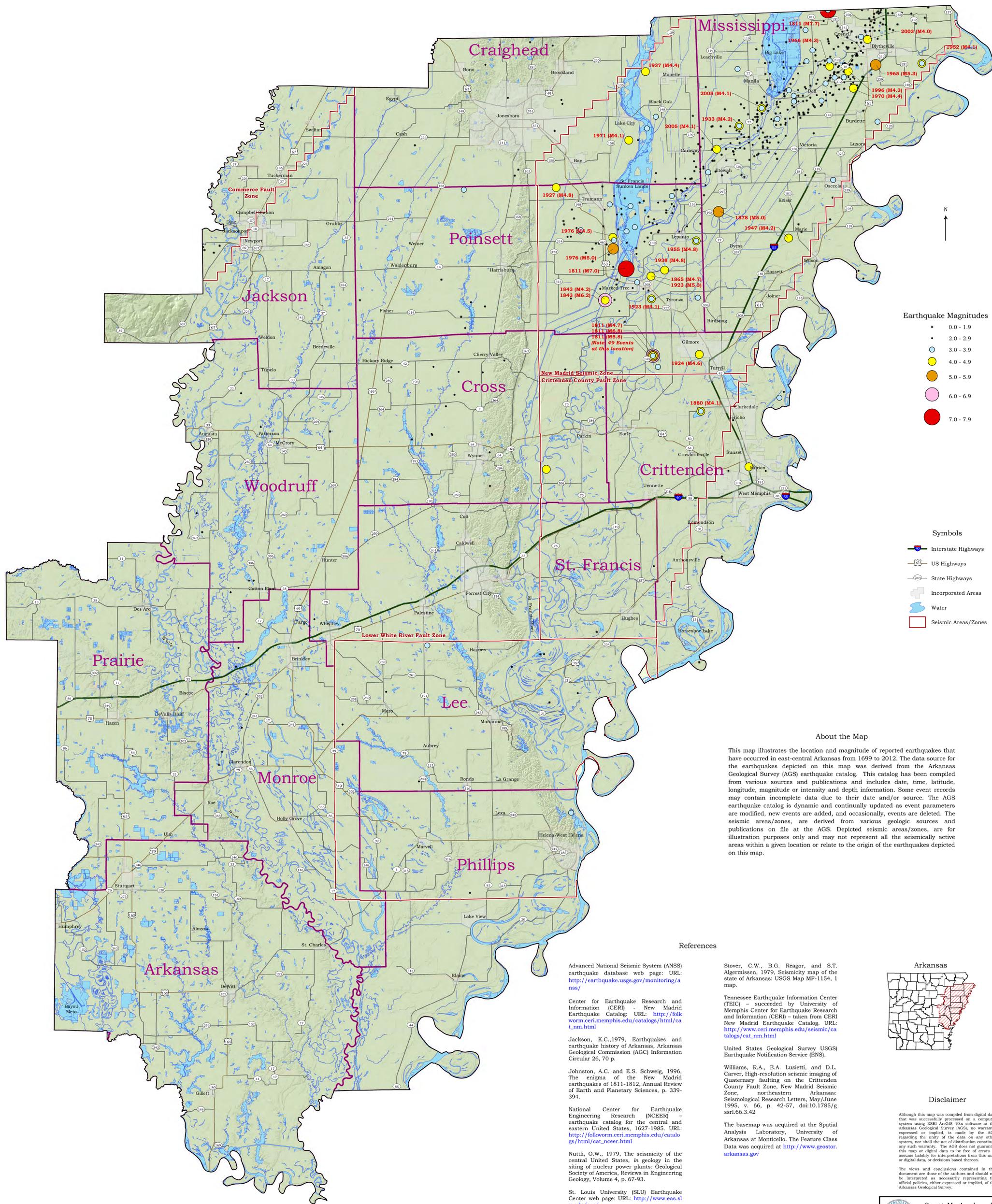




Seismicity of East-Central Arkansas



About the Map

This map illustrates the location and magnitude of reported earthquakes that have occurred in east-central Arkansas from 1699 to 2012. The data source for the earthquakes depicted on this map was derived from the Arkansas Geological Survey (AGS) earthquake catalog. This 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 AGS 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, are derived from various geologic sources and publications on file at the AGS. Depicted seismic areas/zones, are for illustration purposes only and may not represent all the seismically active areas within a given location or relate to the origin of the earthquakes depicted on this map.

References

Advanced National Seismic System (ANSS) earthquake database web page: URL: <http://earthquake.usgs.gov/monitoring/anss/>

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

Jackson, K.C., 1979, Earthquakes and earthquake history of Arkansas, Arkansas Geological Commission (AGC) Information Circular 26, 70 p.

Johnston, A.C. and E.S. Schweig, 1996, The enigma of the New Madrid earthquakes of 1811-1812, Annual Review of Earth and Planetary Sciences, p. 339-394.

National Center for Earthquake Engineering Research (NCEER) - earthquake catalog for the central and eastern United States, 1627-1985. URL: http://folk.worm.cerl.memphis.edu/catalogs/html/cat_nceer.html

Nuttli, O.W., 1979, The seismicity of the central United States, in geology in the siting of nuclear power plants: Geological Society of America, Reviews in Engineering Geology, Volume 4, p. 67-93.

St. Louis University (SLU) Earthquake Center web page: URL: <http://www.eas.slu.edu/eq/>

Stover, C.W., B.G. Reagor, and S.T. Algermissen, 1979, Seismicity map of the state of Arkansas: USGS Map MF-1154, 1 map.

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.cerl.memphis.edu/seismic/catalogs/cat_nm.html

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

Williams, R.A., E.A. Luzzi, and D.L. Carver, High-resolution seismic imaging of Quaternary faulting on the Crittenden County Fault Zone, New Madrid Seismic Zone, northeastern Arkansas: Seismological Research Letters, May/June 1995, v. 66, p. 42-57, doi:10.1785/gssrl.66.3.42

The basemap was acquired at the Spatial Analysis Laboratory, University of Arkansas at Monticello. The Feature Class Data was acquired at <http://www.geostat.arkansas.gov>



Disclaimer

Although this map was compiled from digital data that was successfully processed on a computer system using ESRI ArcGIS 10.x software at the Arkansas Geological Survey (AGS), no warranty, expressed or implied, is made by the AGS regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. The AGS 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 Arkansas Geological Survey.

