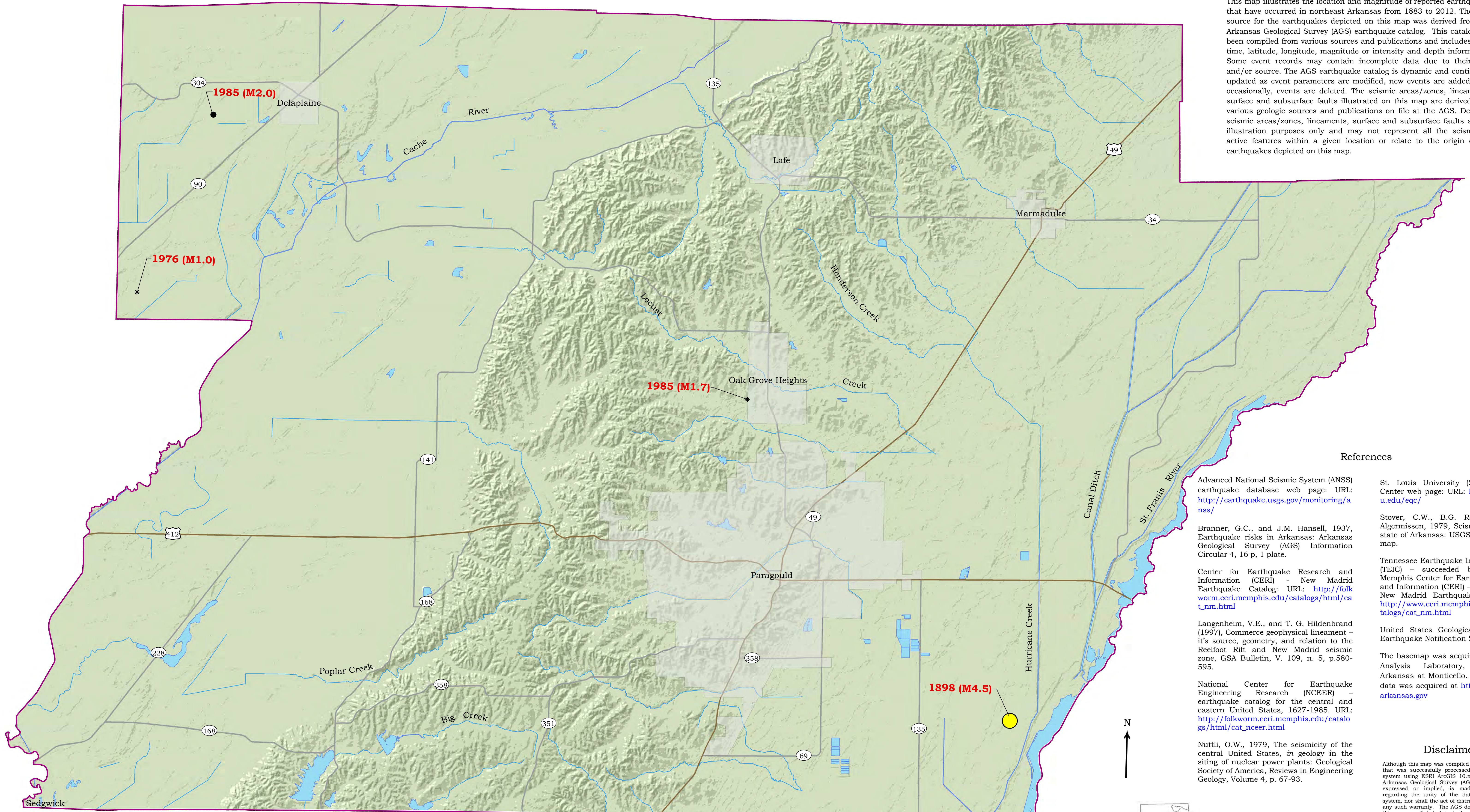




Greene County Seismicity Map

About the Map

This map illustrates the location and magnitude of reported earthquakes that have occurred in northeast Arkansas from 1883 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, lineaments, surface and subsurface faults illustrated on this map are derived from various geologic sources and publications on file at the AGS. Depicted seismic areas/zones, lineaments, surface and subsurface faults 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

- Advanced National Seismic System (ANSS) earthquake database web page: URL: <http://earthquake.usgs.gov/monitoring/anss/>
- Branner, G.C., and J.M. Hansell, 1937, Earthquake risks in Arkansas: Arkansas Geological Survey (AGS) Information Circular 4, 16 p, 1 plate.
- Center for Earthquake Research and Information (CERI) - New Madrid Earthquake Catalog: URL: http://folk.worm.ceri.memphis.edu/catalogs/html/cat_nm.html
- Langenheim, V.E., and T. G. Hildenbrand (1997), Commerce geophysical lineament - it's source, geometry, and relation to the Reelfoot Rift and New Madrid seismic zone, GSA Bulletin, V. 109, n. 5, p.580-595.
- National Center for Earthquake Engineering Research (NCEER) - earthquake catalog for the central and eastern United States, 1627-1985. URL: http://folkworm.ceri.memphis.edu/catalogs/html/cat_nceer.html
- Nutti, 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/eqc/>
- 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.ceri.memphis.edu/seismic/catalogs/cat_nm.html
- United States Geological Survey (USGS) Earthquake Notification Service (ENS).
- The basemap was acquired at the Spatial Analysis Laboratory, University of Arkansas at Monticello. The feature class data was acquired at <http://www.geostor.arkansas.gov>

Disclaimer

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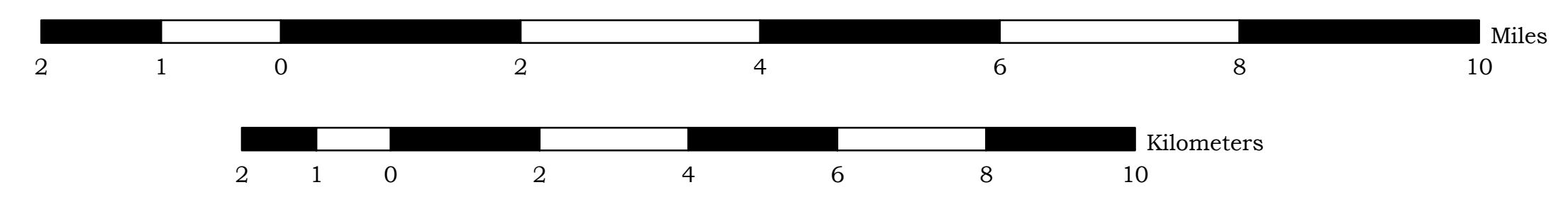
Earthquake Magnitudes

- * 0 - 1.9
- 2.0 - 2.9
- 4.0 - 4.9

Symbols

- US Highways
- State Highways
- Incorporated Areas
- Seismic Areas/Zones
- Water

Scale:



Clay County (shaded in blue) is located inside the New Madrid seismic zone catastrophic planning area (shaded in pink), as designated by the Arkansas Department of Emergency Management (ADEM). The New Madrid seismic zone (NMSZ) is shaded in purple.

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2008

Revised Date: 17 December 2012
Scale: 1 : 84,000
Digital Compilation: Jerry W. Clark