

Sept. 3, 2016, Pawnee, Ok., (M 5.8) 12:02:44 UTC / 07:02:44 CDT University of Kentucky Kentucky Seismic and Strong Motion Network





Right: Epicenter of Sept. 3 M 5.8 earthquake, predicted ground-shaking levels (contours colored by severity), and the real-time KSSMN seismic stations a(red triangles) and temporary eastern Kentucky micro-seismicity network (blue squares). This is the largest recorded earthquake in Oklahoma.





USGS Shake Map





KSSMN Seismograms

(ordered by distance)

Left: Epicenter of Sept. 3 M 5.8 (northern red star), epicenter of 2011 M 5.6 Prague, Ok., earthquake (southern red star) and the past five years of magnitude 3 and greater earthquakes. This recently increased level of activity is considered by seismologists to be unnatural and to be induced by the injection of large volumes of waste-water.



Figures courtesy of USGS NEIC: http://earthquake.usgs.gov/earthquakes/eventpage/us10006jxs

USGS W-phase Source Mechanism



(Strike-slip Faulting on NE- or SE-striking fault planes)

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