The map above is a probabilistic one, showing the levels of shaking that have a 10% chance of being exceeded in any 50 year period. These shaking estimates account for all possible earthquakes and their different likelihoods of occurring. This particular map shows the peak ground acceleration (PGA) or the maximum acceleration that would be experienced on the ground.

Locations of most of the earthquakes that have occurred since the mid-1970s (black dots) and the major faults (white lines) in the New Madrid seismic zone. The darker area is covered by thick sediments, which significantly affect ground shaking levels.