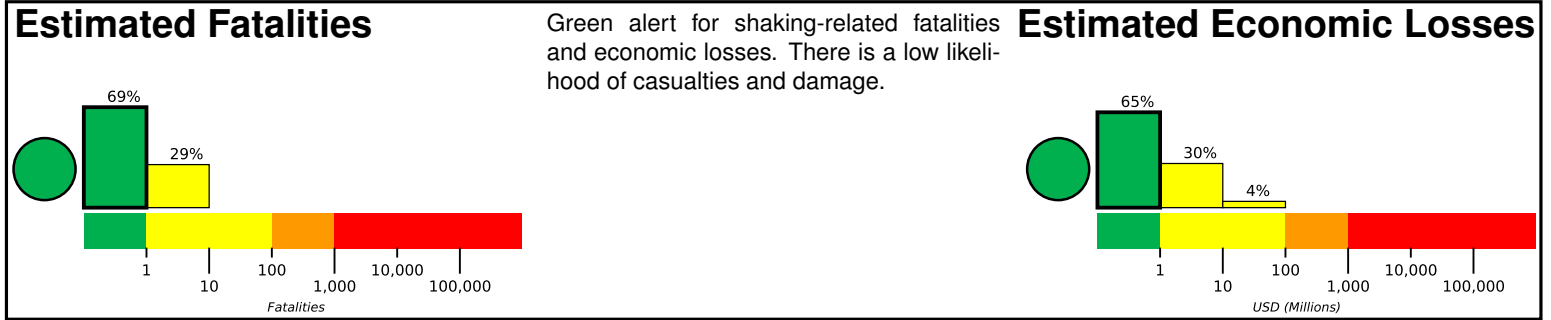


# M 4.4, 25km E of Cherokee, Oklahoma

Origin Time: 2018-06-09 13:59:41 UTC (Sat 08:59:41 local)  
Location: 36.7548° N 98.0765° W Depth: 5.0 km

Created: 2 hours, 6 minutes after earthquake

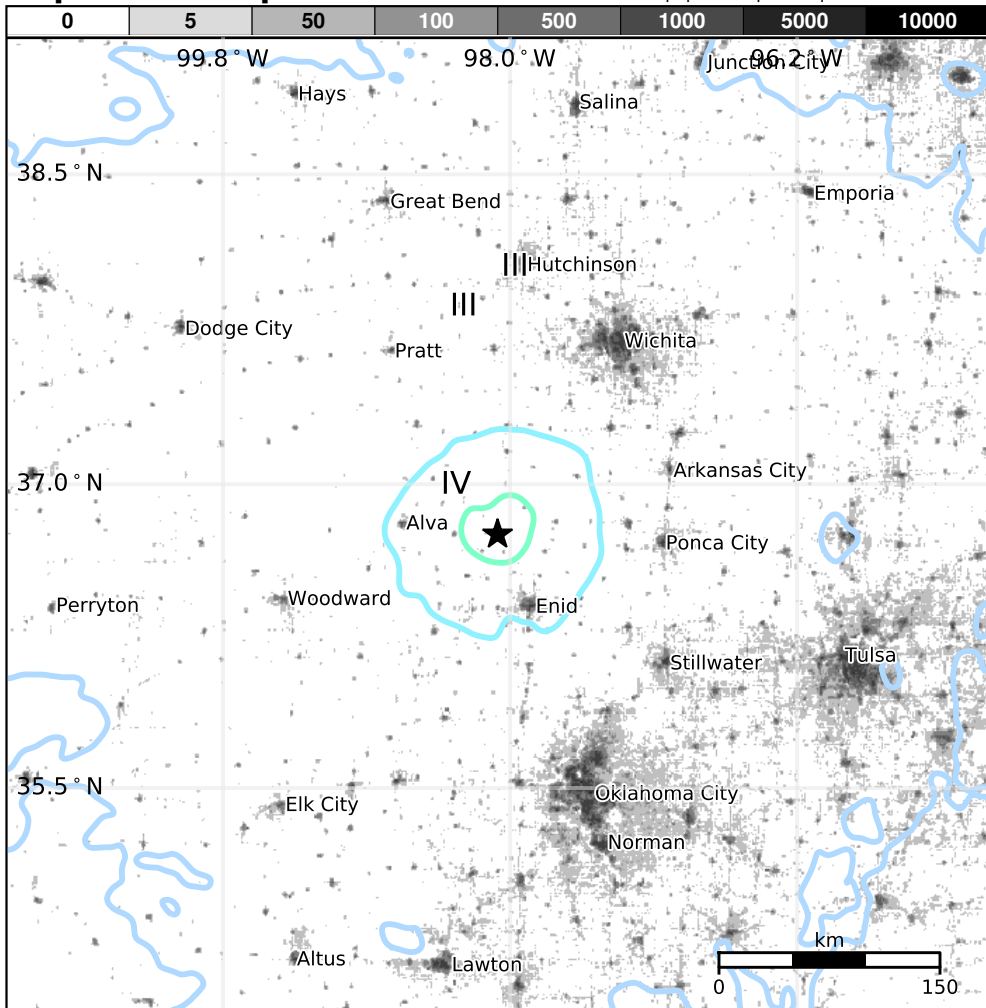


## Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	5,214k	80k	1k	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

\*Estimated exposure only includes population within the map area.

## Population Exposure



## Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

## Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1974-02-15	235	4.6	IV(8k)	—
1997-09-06	276	4.5	V(3k)	—

## Selected City Exposure

MMI	City	Population
IV	Cherokee	1k
IV	Helena	1k
IV	Medford	1k
IV	Anthony	2k
IV	Kiowa	1k
IV	Caldwell	1k
III	Wichita	382k
III	Tulsa	392k
III	Norman	111k
III	Oklahoma City	580k
II	Topeka	127k

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

bold cities appear on map.

(k=x1000)