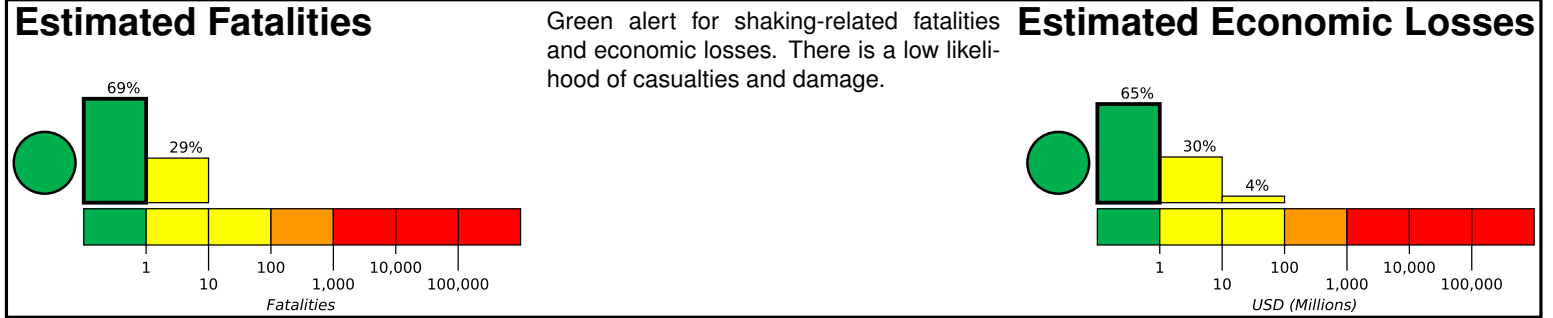


M 4.3, 12km SSE of Medford, Oklahoma

Origin Time: 2017-09-08 02:26:23 UTC (Thu 21:26:23 local)
Location: 36.6996° N 97.6830° W Depth: 6.1 km

Created: 16 hours, 19 minutes after earthquake

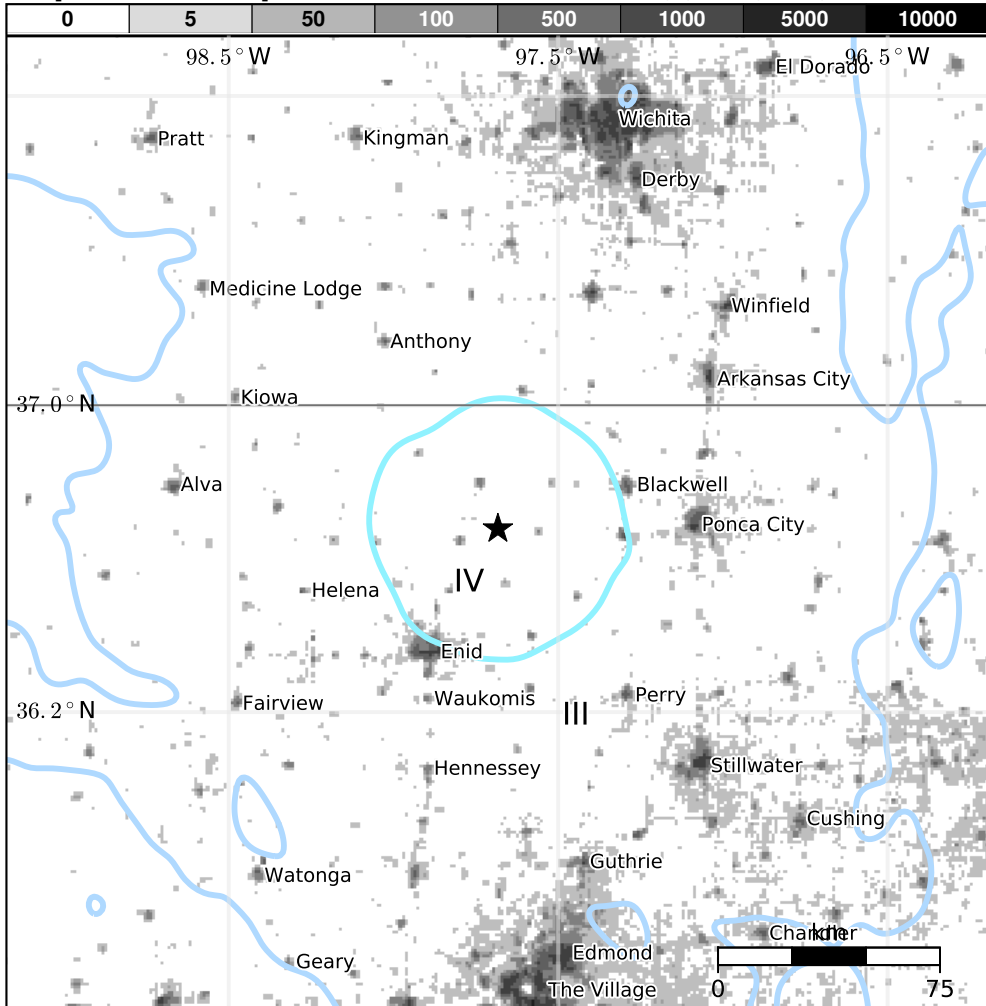


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	1,547k	25k	0	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	269	4.6	IV(8k)	—
1997-09-06	253	4.5	V(3k)	—

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Medford	1k
III	Tonkawa	3k
III	Caldwell	1k
III	Enid	49k
III	Blackwell	7k
III	Ponca City	25k
III	Edmond	81k
III	Stillwater	46k
III	Derby	22k
III	Wichita	382k
III	Yukon	23k

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)