Earthquake Shaking **Green Alert**

M 4.0, 24.9 km (15.5 mi) SE of Mammoth Lakes, CA

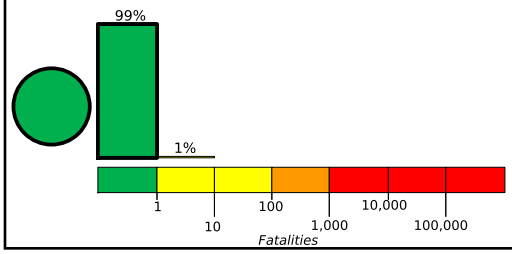
Origin Time: Mon 2014-10-13 00:13:50 UTC (17:13:50 local)

Location: 37.48°N 118.78°W Depth: 7 km

PAGER Version 4

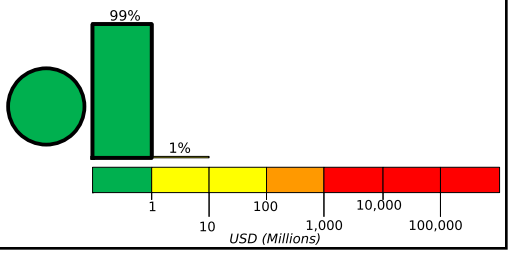
Created: 1 hour, 1 minute after earthquake

Estimated Fatalities



Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses



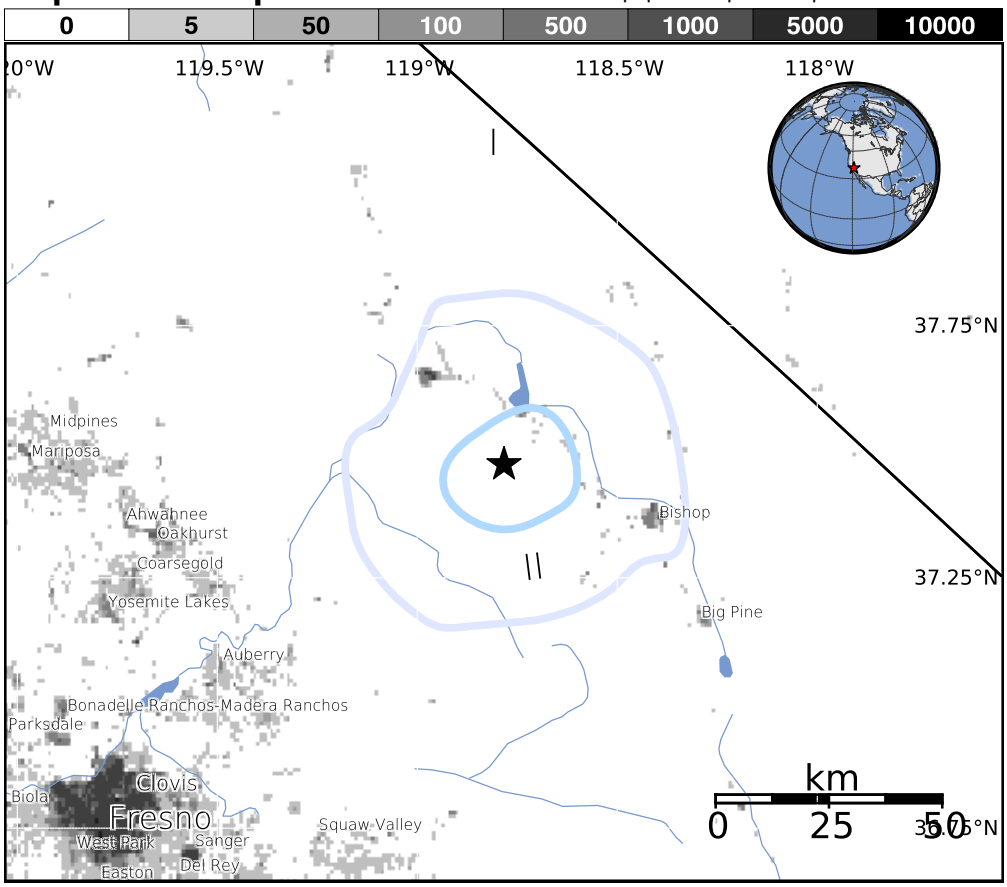
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)		830k	24k	0	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	Moderate/Heavy	Heavy	V. Heavy
	Vulnerable Structures	none	none	none	Light	Moderate	Moderate/Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per ~1 sq. km from Landscan



Structures:
Overall, the population in this region resides in structures that are highly resistant to earthquake shaking, though some vulnerable structures exist.

Historical Earthquakes (with MMI levels):

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1984-11-26	20	5.1	V(17k)	0
2003-12-22	290	6.6	VII(213)	2
1989-10-18	267	6.9	IX(3k)	62

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
II	West Bishop	3k
II	Mammoth Lakes	8k
II	**Bishop**	**4k**
I	**Ahwahnee**	**2k**
I	**Auberry**	**2k**
I	**Fresno**	**495k**
I	**Clovis**	**96k**
I	**Sanger**	**24k**
I	**Yosemite Lakes**	**5k**

bold cities appear on map (k = x1000)

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.

http://earthquake.usgs.gov/pager

Event ID: nc72325816