

M 4.2, 36.6 km (22.7 mi) ESE of Johannesburg, CA

Origin Time: Sun 2015-12-27 18:31:18 UTC (10:31:18 local)

Location: 35.21°N 117.28°W Depth: 3 km

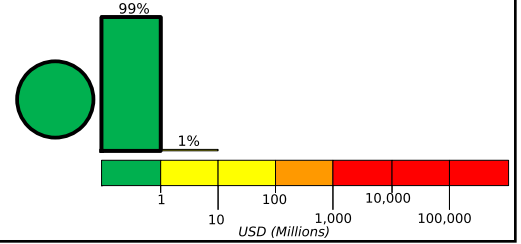
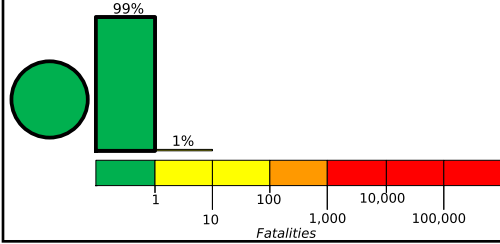
Created: 1 day, 0 hours after earthquake

PAGER
Version 5

Estimated Fatalities

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

Estimated Economic Losses

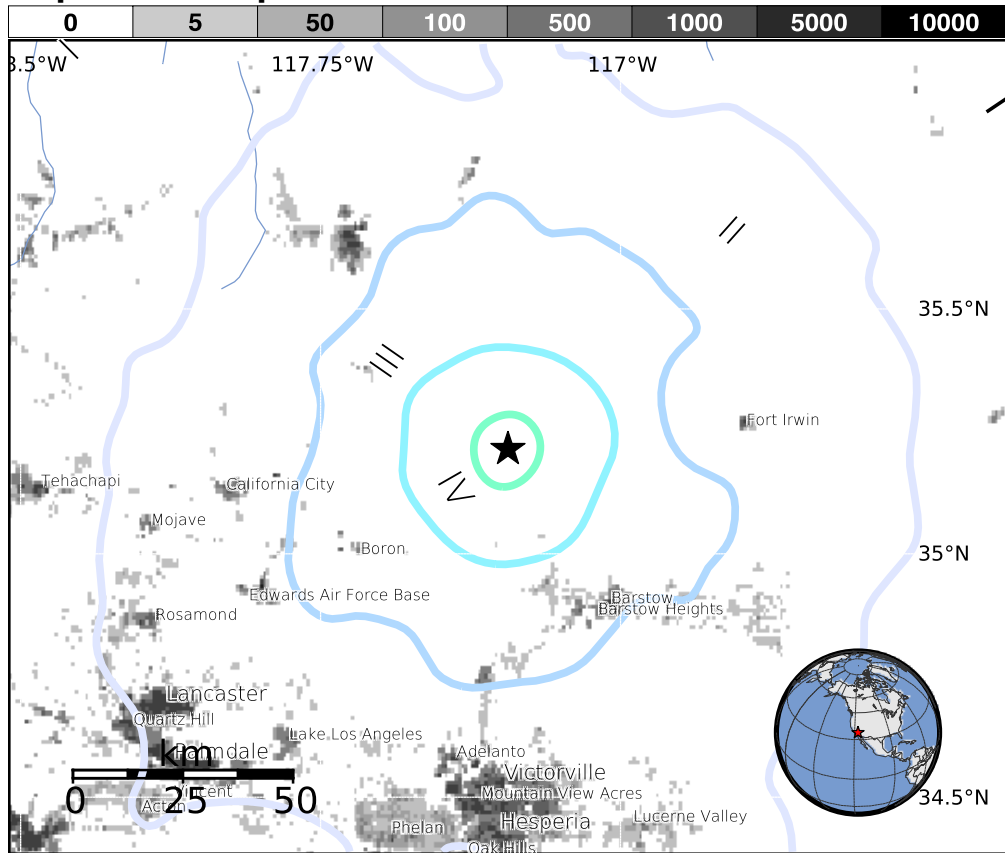


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)	225k*	768k	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



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	266	5.1	V(17k)	0
2003-12-22	346	6.6	VII(213)	2
1994-01-17	167	6.7	IX(181k)	33

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
III	Boron	2k
III	Lenwood	4k
III	Barstow Heights	24k
III	Barstow	23k
III	North Edwards	1k
II	Searles Valley	2k
II	Apple Valley	69k
II	Victorville	116k
II	Palmdale	153k
II	Lancaster	157k
II	Hesperia	90k

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: ci37506472