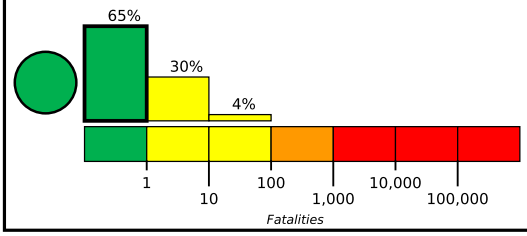
Earthquake Shaking **Green Alert**

M 4.7, 11 km E of Ocotillo, CA

Origin Time: 2023-12-01 07:43:26 UTC (Thu 23:43:26 local)
Location: 32.7611° N 115.8868° W Depth: 4.1 km
FOR TSUNAMI INFORMATION, SEE: tsunami.gov

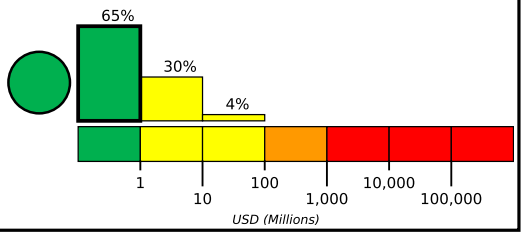
PAGER Version 7
Created: 1 day, 0 hours after earthquake

Estimated Fatalities



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

Estimated Economic Losses



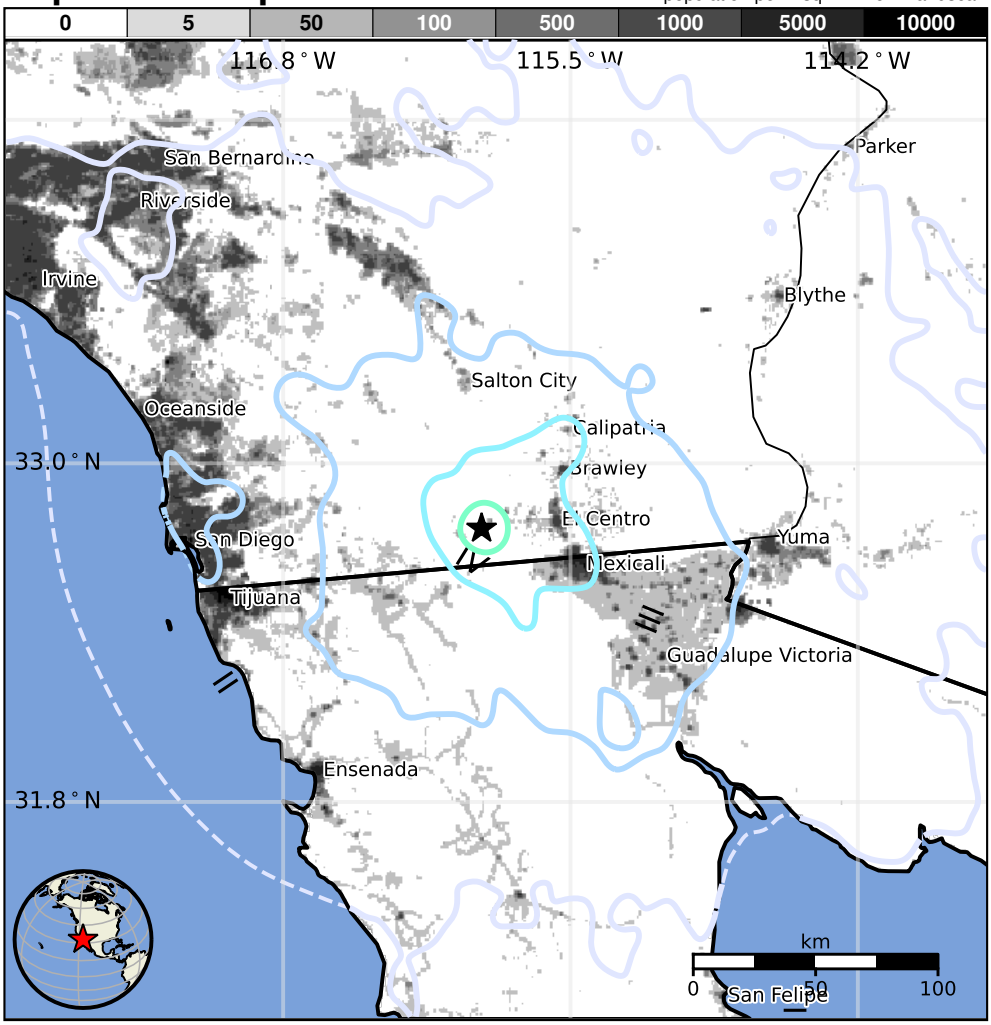
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		1,046k*	13,956k	892k	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

population per 1 sq. km from Landscan



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
1991-06-28	256	5.6	VI(1,267k)	1
1992-06-28	169	7.3	VIII(23k)	1
1971-02-09	294	6.6	IX(21k)	65

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
IV	Seeley	2k
IV	Vinas del Sol	3k
IV	Progreso	5k
IV	**Calipatria**	**8k**
IV	Westmorland	2k
IV	Calexico	39k
IV	**Mexicali**	**597k**
II	**San Diego**	**1,307k**
II	**Tijuana**	**1,376k**
II	Anaheim	336k
II	Santa Ana	325k

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.

https://earthquake.usgs.gov/earthquakes/eventpage/ci39720706#pager

Event ID: ci39720706