

**M 4.0, 66.0 km (41.0 mi) WSW of Rosarito, B.C., MX**

Origin Time: Mon 2015-08-17 07:39:10 UTC (23:39:10 local)

Location: 32.17°N 117.71°W Depth: 24 km

Created: 1 hour, 3 minutes 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**

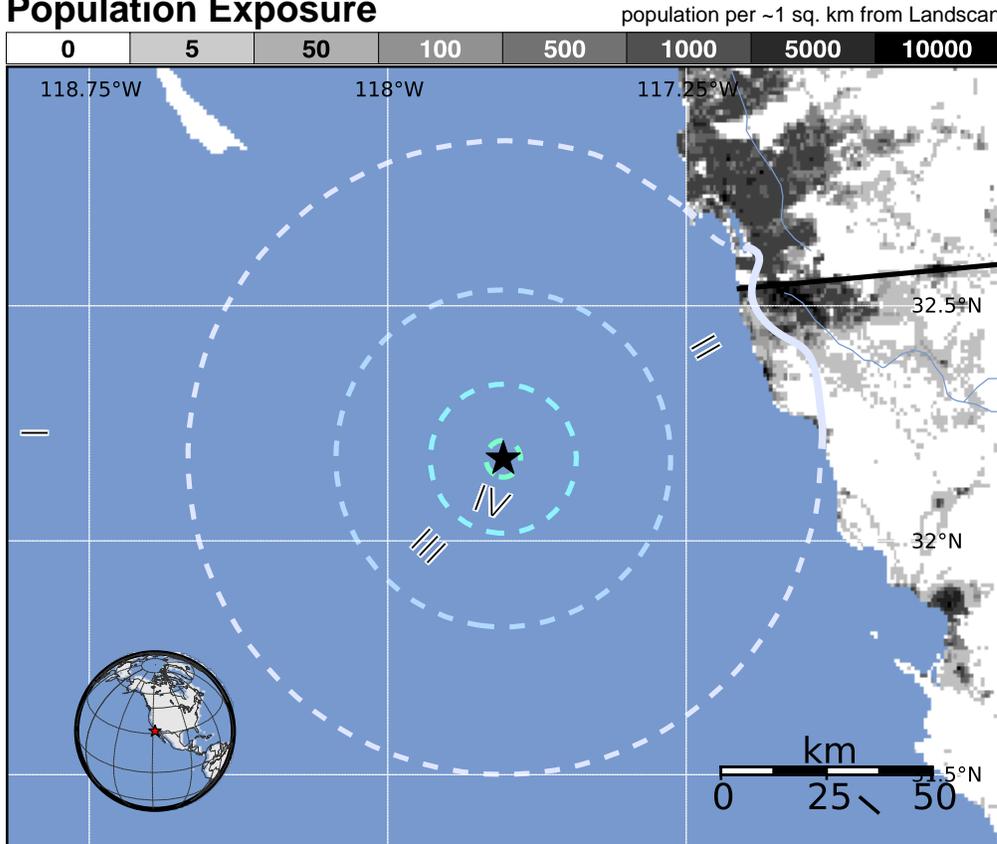


**Estimated Population Exposed to Earthquake Shaking**

ESTIMATED POPULATION EXPOSURE (k = x1000)	3,956k*	478k	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 a mix of vulnerable and earthquake resistant construction.

**Historical Earthquakes (with MMI levels):**

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2001-12-08	265	5.7	VIII(72)	0
2002-02-22	238	5.5	VIII(8k)	0
1980-06-09	263	6.3	IX(336)	1

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 Rosarito	66k
II Chula Vista	244k
II Imperial Beach	26k
II Primo Tapia	5k
II Coronado	19k
I Bonita	13k
I National City	59k
I San Diego	1,307k
I Tijuana	1,376k
I El Cajon	99k
I Ensenada	257k

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: ci37228879