

M 8.2, 101km SSW of Tres Picos, Mexico

Origin Time: 2017-09-08 04:49:19 UTC (Thu 22:49:19 local)

Location: 15.0222° N 93.8993° W Depth: 47.4 km

FOR TSUNAMI INFORMATION, SEE: tsunami.gov

Created: 26 weeks, 3 days after earthquake

PAGER
Version 12

Estimated Fatalities

Magnitude Range	Percentage
1	12%
10	30%
100	34%
1,000	17%
10,000	4%

Fatalities

Estimated Economic Losses

Magnitude Range	Percentage
1	5%
10	19%
100	35%
1,000	28%
10,000	13%

USD (Millions)

Red alert for shaking-related fatalities and economic losses. High casualties and extensive damage are probable and the disaster is likely widespread. Past red alerts have required a national or international response.

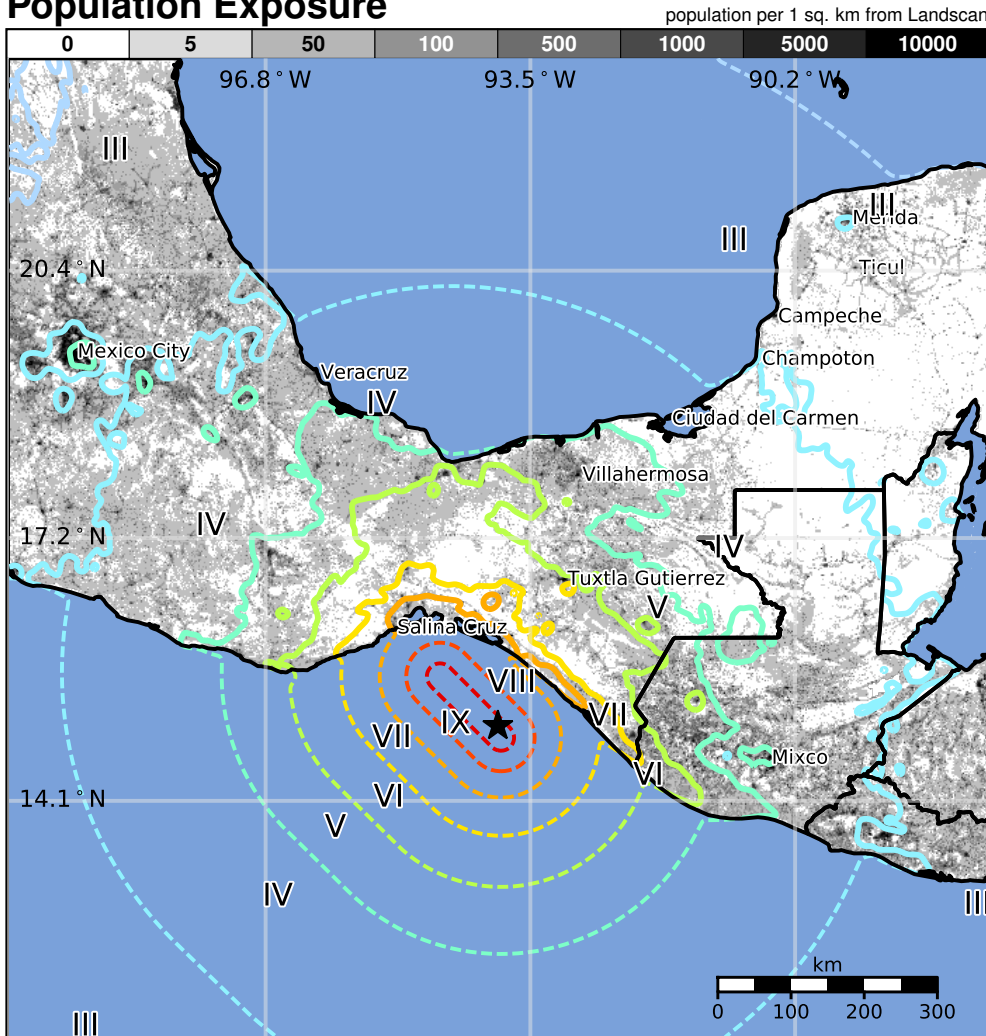
Estimated economic losses are 0-1% GDP of Mexico.

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	22,903k*	34,945k	27,301k	4,333k	1,219k	494k	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 a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are adobe block with concrete bond beam and mud wall construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1985-10-11	327	4.5	VI(14k)	0
1978-07-29	314	4.9	VII(14k)	17
1991-09-18	322	6.2	IX(9k)	25

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

Selected City Exposure

from GeoNames.org

MMI	City	Population
VIII	San Francisco del Mar Viejo	4k
VIII	San Mateo del Mar	5k
VIII	San Francisco Ixhuatan	6k
VIII	Colonia Juarez	3k
VIII	Nueva Tenochtitlan (Rizo de Oro)	2k
VIII	Villamorelos	2k
V	Mexico City	12,294k
V	Guatemala City	995k
V	Puebla	1,590k
IV	Merida	717k
III	San Salvador	526k

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/us2000ahv0#pager>

bold cities appear on map.

(k=x1000)

Event ID: us2000ahv0