

# M 7.4, 12 km SSW of Santa Mara Zapotitln, Mexico

Origin Time: 2020-06-23 15:29:05 UTC (Tue 10:29:05 local)

Location: 16.0291° N 95.9010° W Depth: 26.2 km

FOR TSUNAMI INFORMATION, SEE: [tsunami.gov](https://tsunami.gov)

Created: 34 minutes, 26 seconds after earthquake

## PAGER Version 2

### Estimated Fatalities

Fatalities: 1, 10, 100, 1,000, 10,000, 100,000

Yellow alert for shaking-related fatalities and economic losses. Some casualties and damage are possible and the impact should be relatively localized. Past yellow alerts have required a local or regional level response.

Estimated economic losses are less than 1% of GDP of Mexico.

### Estimated Economic Losses

USD (Millions): 1, 10, 100, 1,000, 10,000, 100,000

## Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)	—*	7,299k*	10,035k	1,231k	487k	15k	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



### 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 mud wall and adobe block with concrete bond beam construction.

### Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1999-06-15	307	6.9	VII(178k)	16
1999-09-30	103	7.4	VIII(37k)	15
1973-08-28	256	7.2	VII(847k)	600

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
VII	El Coyul	2k
VI	Santa Maria Xadani	6k
VI	San Pedro Huamelula	<1k
VI	Asuncion Tlacolulita	<1k
VI	Santiago Astata	<1k
VI	Santa Maria Ecatepec	<1k
IV	Oaxaca	263k
IV	Tuxtla	481k
IV	Tehuacan	241k
IV	Puebla	1,590k
III	Villahermosa	362k

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/us6000ah9t#pager>

Event ID: us6000ah9t