

M 4.6, 22km NE of Gonzales, California

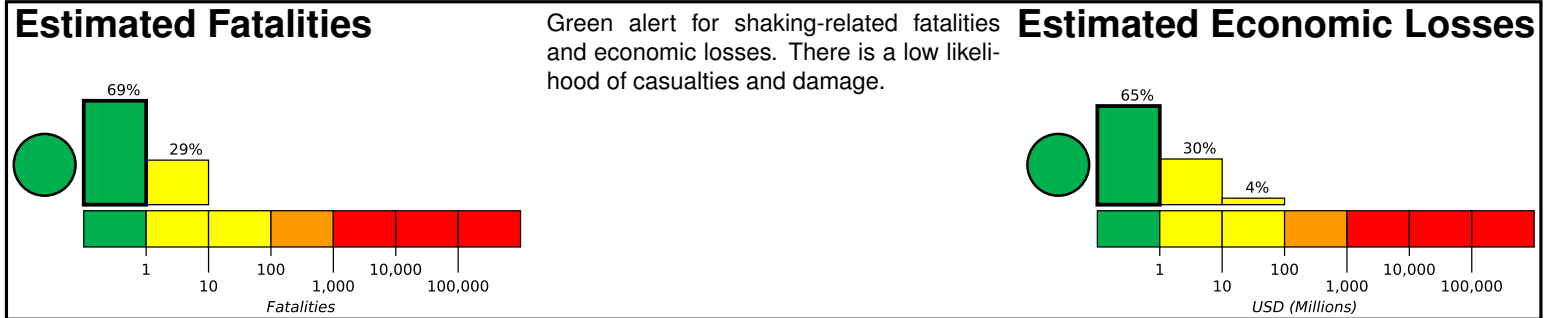
Origin Time: 2017-11-13 19:31:29 UTC (Mon 11:31:29 local)

Location: 36.6305° N 121.2443° W Depth: 6.3 km

FOR TSUNAMI INFORMATION, SEE: tsunami.gov

PAGER
Version 6

Created: 6 hours, 2 minutes after earthquake

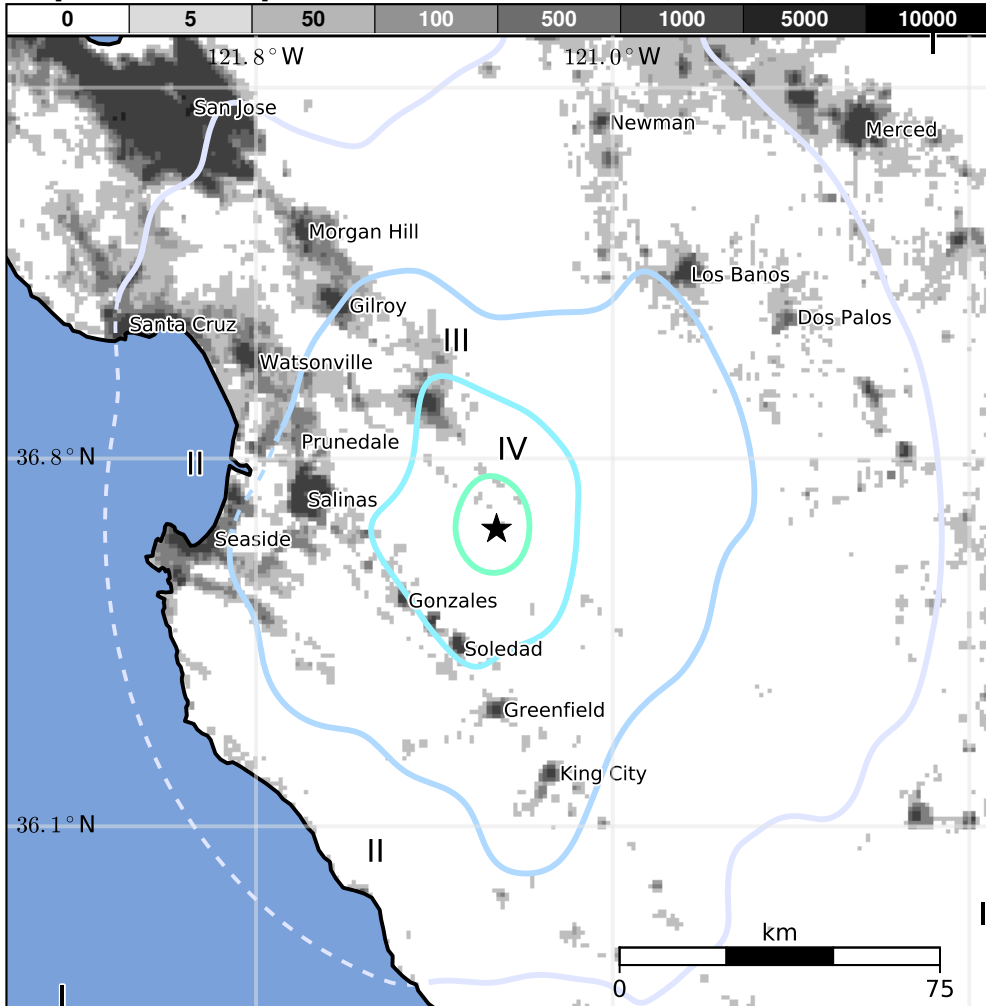


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		1,397k*	1,840k	86k	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	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 highly resistant to earthquake shaking, though some 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	395	5.6	VI(1,267k)	1
2003-12-22	113	6.6	VI(8k)	2
1971-02-09	358	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	Hollister	35k
IV	Ridgemark	3k
IV	Soledad	26k
IV	Chualar	1k
IV	Gonzales	8k
III	Greenfield	16k
III	Salinas	150k
II	San Jose	946k
II	Santa Clara	116k
I	Merced	79k
I	Sunnyvale	140k

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/nc72923380#pager>

Event ID: nc72923380