

# M 4.6, 2.1 km (1.3 mi) NNE of Canyon Dam, CA

Origin Time: Fri 2013-05-24 03:48:57 UTC (20:48:57 local)

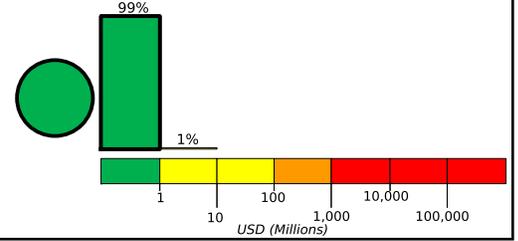
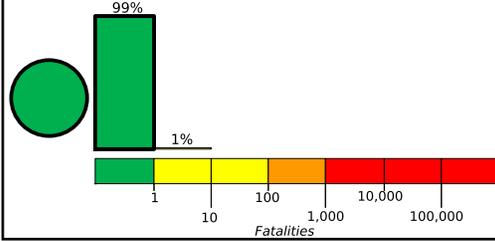
Location: 40.19°N 121.07°W Depth: 4 km

Created: 1 week, 6 days 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

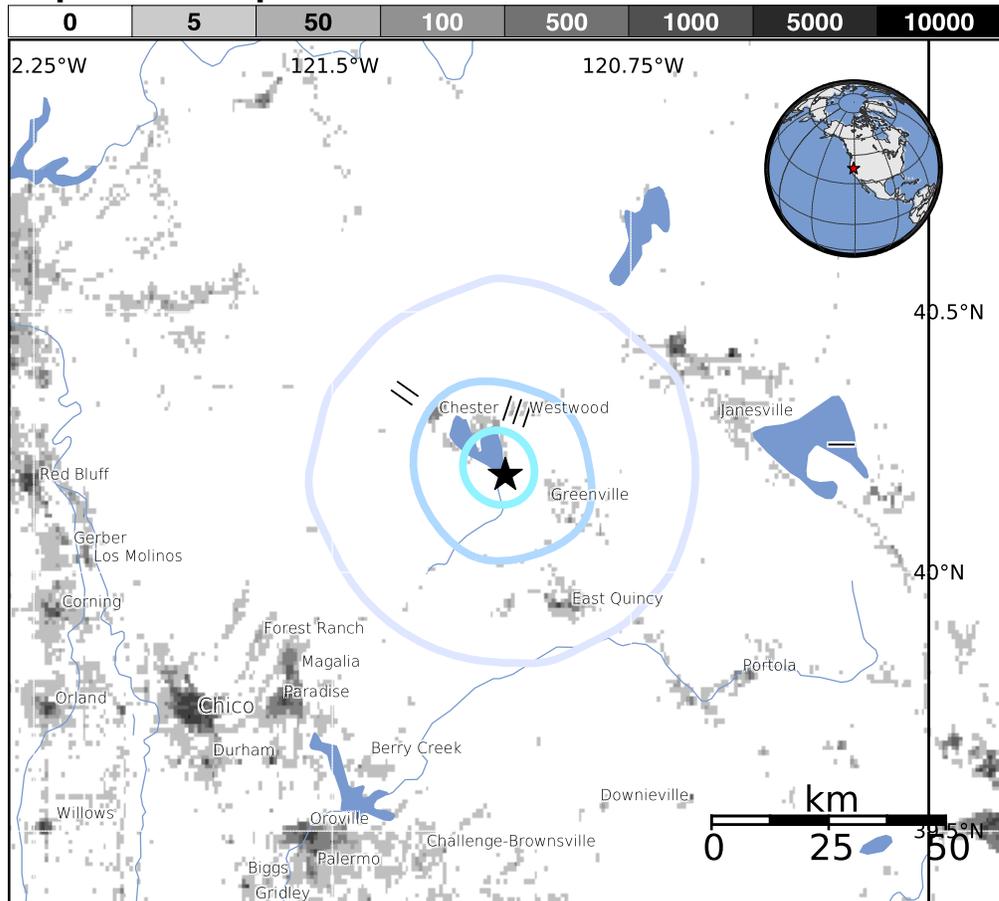


## Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)		445k	18k	1k	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent
POTENTIAL DAMAGE	Resistant Structures	none	none	none	V. Light	Light	Moderate	Moderate/Heavy	Heavy
	Vulnerable Structures	none	none	none	Light	Moderate	Moderate/Heavy	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.

### Historical Earthquakes (with MMI levels):

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1984-11-26	377	5.1	V(17k)	0
1989-08-08	345	5.4	VII(4k)	1
1989-10-18	345	6.9	IX(3k)	62

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
III	<b>Greenville</b>	1k
III	<b>Westwood</b>	2k
III	<b>Chester</b>	2k
II	Quincy	2k
II	<b>East Quincy</b>	2k
II	Johnstonville	1k
I	Susanville	18k
I	<b>Chico</b>	86k
I	<b>Paradise</b>	26k
I	<b>Oroville</b>	16k
I	<b>Red Bluff</b>	14k

bold cities appear on map

(k = x1000)