

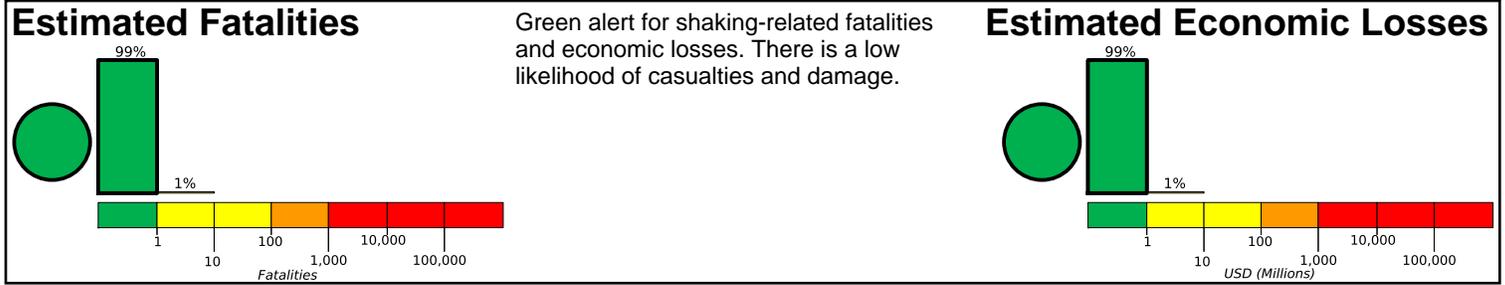
**M 4.0, 1.3 km (0.8 mi) W of Concord, CA**

Origin Time: Sun 2015-05-03 22:13:19 UTC (15:13:19 local)

Location: 37.97°N 122.03°W Depth: 14 km

**PAGER**  
**Version 2**

Created: 19 minutes, 34 seconds after earthquake

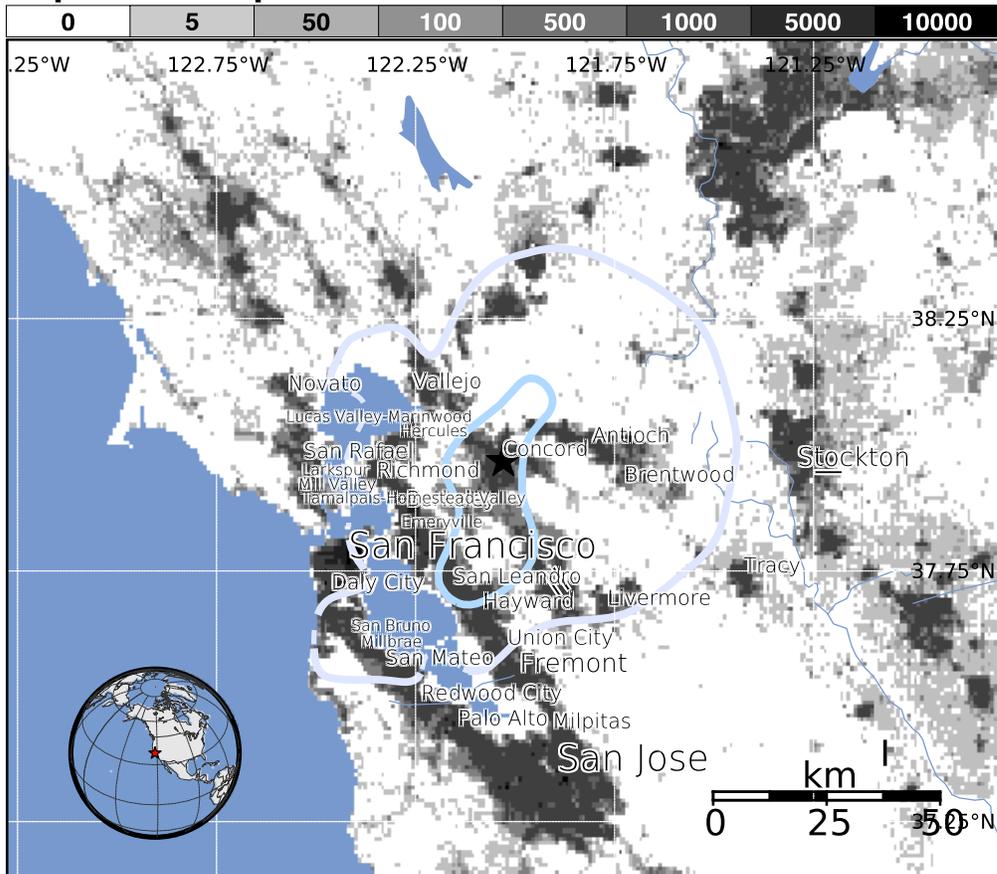


**Estimated Population Exposed to Earthquake Shaking**

ESTIMATED POPULATION EXPOSURE (k = x1000)	7,160k*	3,616k	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 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	298	5.1	V(17k)	0
2003-12-22	275	6.6	VII(213)	2
1989-10-18	98	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	Danville	42k
III	Pacheco	4k
III	Pleasant Hill	33k
III	Walnut Creek	64k
III	Waldon	5k
<b>III</b>	<b>San Leandro</b>	<b>85k</b>
II	Oakland	391k
<b>II</b>	<b>San Francisco</b>	<b>805k</b>
I	Sacramento	466k
<b>I</b>	<b>San Jose</b>	<b>946k</b>
<b>I</b>	<b>Stockton</b>	<b>292k</b>

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: nc72439615