



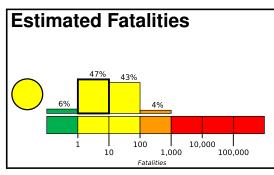




Version 3

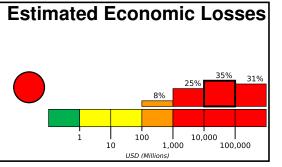
M 6.3, LA County EMS Agency Scenario - Palos Verdes

Origin Time: 2025-11-20 17:30:00 UTC (Thu 09:30:00 local) Location: 33.5835° N 118.1460° W Depth: 11.2 km



Red alert for economic losses. Extensive damage is probable and the disaster is likely widespread. Estimated economic losses are less than 1% of GDP of the United States. Past events with this alert level have required a national or international level response.

Yellow alert for shaking-related fatalities. Some casualties are possible.



Estimated Population Exposed to Earthquake Shaking

| ESTIMATED POPULATION EXPOSURE (k=x1000) | | _* | _* | 7,070k* | 6,065k | 5,677k | 1,968k | 659k | 15k | 0 |
|--|--------------------------|----------|--------|---------|----------|----------|-------------|------------|----------|----------|
| ESTIMATED MODIFIED MERCALLI INTENSITY | | I | 11-111 | 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

33.2°N

population per 1 sq. km from Landscan **Structures**

n Clemente

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.

118.8°W 118.0°W Palmdale 34.0°N

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Historical Earthquakes

| Date | Dist. | Mag. | Max | Shaking |
|------------|-------|------|-----------|---------|
| (UTC) | (km) | | MMI(#) | Deaths |
| 1994-01-17 | 74 | 6.7 | IX(73k) | 33 |
| 1987-10-01 | 52 | 5.9 | VIII(47k) | 8 |
| 1971-02-09 | 93 | 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 | | | | | |
|-----------------------|--|--|--|--|--|
| City | Population | | | | |
| Lomita | 20k | | | | |
| Rolling Hills Estates | 8k | | | | |
| San Pedro | 78k | | | | |
| West Carson | 22k | | | | |
| Rolling Hills | 2k | | | | |
| Torrance | 145k | | | | |
| Long Beach | 462k | | | | |
| Huntington Beach | 190k | | | | |
| Downey | 112k | | | | |
| Garden Grove | 171k | | | | |
| Santa Ana | 325k | | | | |
| | City Lomita Rolling Hills Estates San Pedro West Carson Rolling Hills Torrance Long Beach Huntington Beach Downey Garden Grove | | | | |

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/data/pager/