

# M 6.0, 6.7 km (4.2 mi) NW of American Canyon, CA

Origin Time: Sun 2014-08-24 10:20:44 UTC (03:20:44 local)

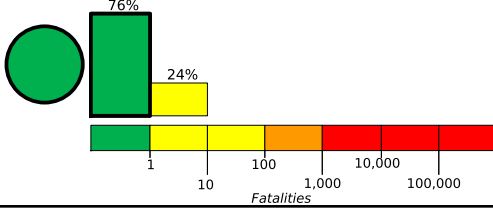
Location: 38.21°N 122.32°W Depth: 10 km

Created: 53 minutes, 6 seconds after earthquake

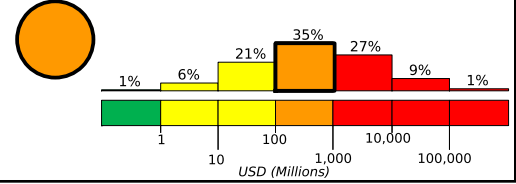
## Estimated Fatalities

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

Green alert level for shaking-related fatalities. There is a low likelihood of casualties.



## Estimated Economic Losses

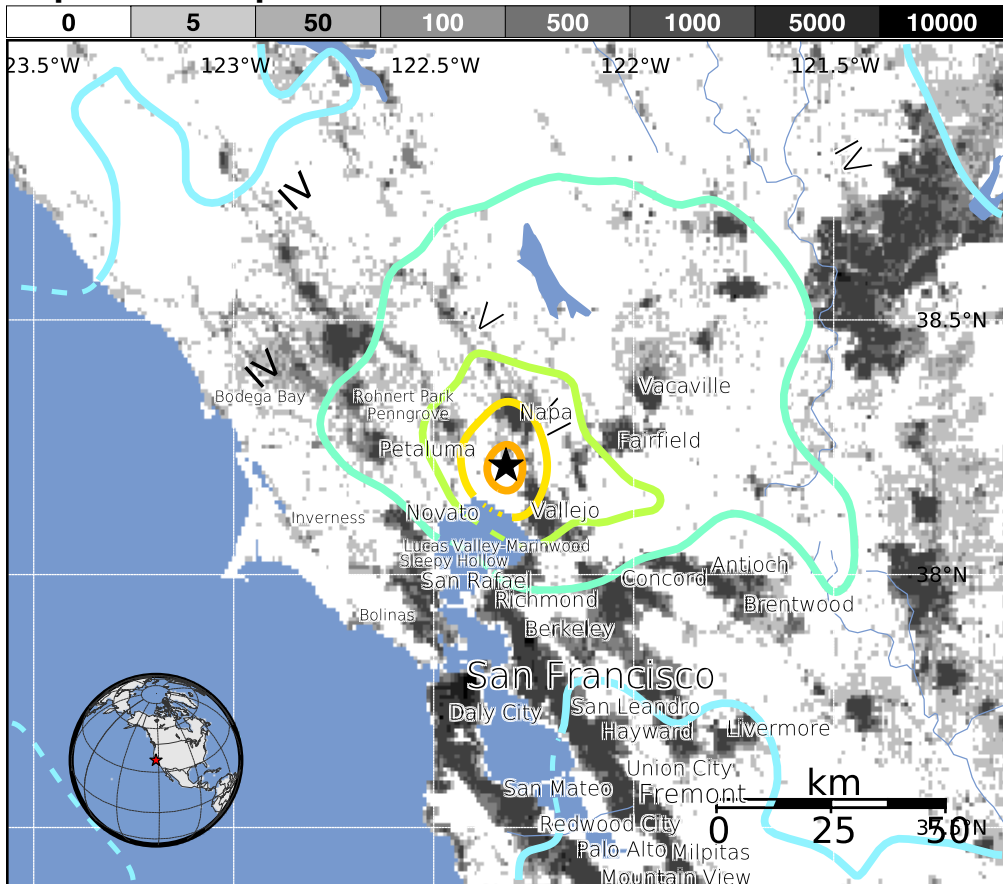


## Estimated Population Exposed to Earthquake Shaking

| ESTIMATED POPULATION EXPOSURE (k = x1000) | - -*                  | 1,477k* | 6,302k* | 737k     | 176k     | 106k        | 15k            | 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 |
|------------|------------|------|------------|----------------|
| 1983-05-02 | 284        | 5.7  | VIII(1k)   | 0              |
| 1980-01-24 | 76         | 5.8  | VII(31k)   | 1              |
| 1989-10-18 | 132        | 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 |
|---------------------|------------|
| VII Napa            | 77k        |
| VII American Canyon | 19k        |
| VI Sonoma           | 11k        |
| VI Vallejo          | 116k       |
| VI Yountville       | 3k         |
| VI El Verano        | 4k         |
| IV Sacramento       | 466k       |
| IV Stockton         | 292k       |
| IV San Francisco    | 805k       |
| IV Oakland          | 391k       |
| III Fremont         | 214k       |

bold cities appear on map

(k = x1000)