# M 7.0, JAVA, INDONESIA

Origin Time: Wed 2009-09-02 07:55:01 UTC (14:55:01 local)

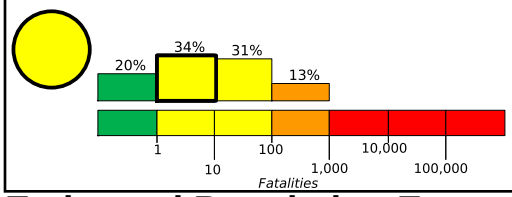
Location: 7.81°S 107.26°E Depth: 46 km

**Earthquake Shaking** **Yellow Alert**

**PAGER Version 1**

Created: 55 weeks, 2 days after earthquake

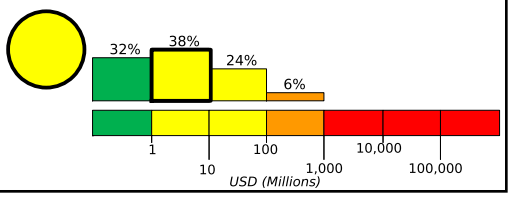
## Estimated Fatalities




Yellow alert for shaking-related fatalities and economic losses. Some casualties and damage are possible and the impact should be relatively localized. Past yellow alerts have required a local or regional level response.

Estimated economic losses are less than 1% of GDP of Indonesia.

## Estimated Economic Losses



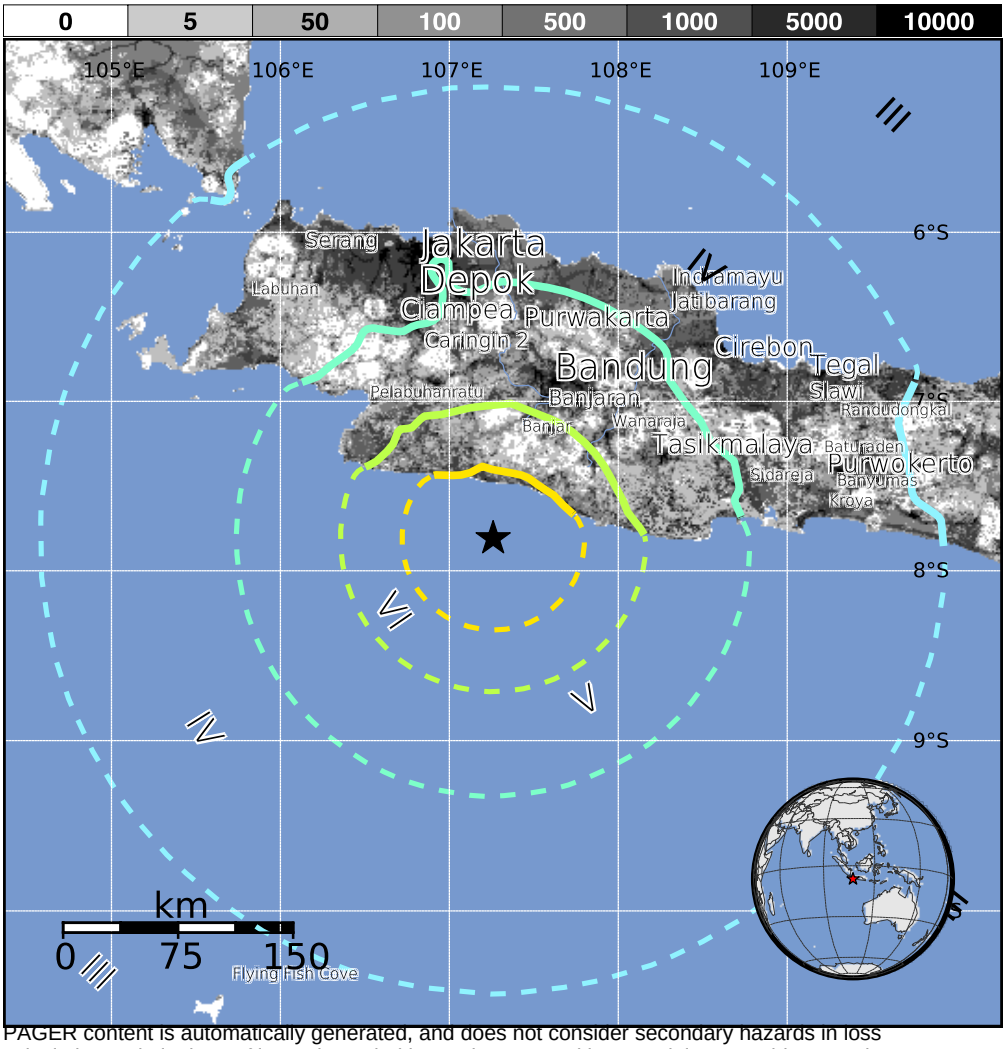

## Estimated Population Exposed to Earthquake Shaking

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ESTIMATED POPULATION EXPOSURE (k = x1000) | | - -* | 8,204k* | 45,112k | 25,796k | 3,247k | 719k | 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

population per ~1 sq. km from Landscan




**Structures:**
Overall, the population in this region resides in structures that are vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are nonductile reinforced concrete frame and concrete/cinder block masonry construction.

**Historical Earthquakes (with MMI levels):**

| Date | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|---|---|---|---|---|
| 1999-12-21 | 218 | 6.4 | VII(817k) | 5 |
| 1979-11-02 | 100 | 6.5 | VII(483k) | 23 |
| 2006-05-26 | 340 | 6.4 | IX(932k) | 6k |

Recent earthquakes in this area have caused secondary hazards such as tsunamis that might have contributed to losses.

## Selected City Exposure

from GeoNames.org

| MMI | City | Population |
|---|---|---|
| **V** | **Banjar** | **37k** |
| **V** | **Wanaraja** | **26k** |
| V | Soreang | 151k |
| V | Ciranjang-hilir | 78k |
| V | Paseh | 126k |
| V | Pameungpeuk | 48k |
| **V** | **Bandung** | **1,700k** |
| IV | Bekasi | 1,520k |
| **IV** | **Jakarta** | **8,540k** |
| **III** | **Flying Fish Cove** | **< 1k** |

bold cities appear on map (k = x1000)

PAGER content is automatically generated, and does not consider secondary hazards in loss calculations. Limitations of input data, shaking estimates, and loss models may add uncertainty.

http://earthquake.usgs.gov/pager

Event ID: us2009lbat