

Damage Predictions for Osaka City

*The probability of an earthquake within the next 30 years is laid out.
(as of January 1, 2020)

Seismic intensity 7	Seismic intensity upper 5
Seismic intensity upper 6	Seismic intensity lower 5
Seismic intensity lower 6	Seismic intensity 4 or lower

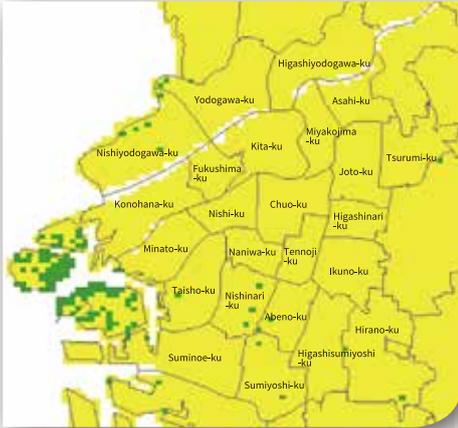
The Great Nankai Trough Earthquake

Magnitude: 9.0 ~ 9.1

→ Dead: Approx. 120,000

* Most cases will be due to a tsunami and delayed evacuation. (Predicted tsunami flooding is indicated on p.7.)

→ Totally or semi-collapsed buildings: Approx. 296,000



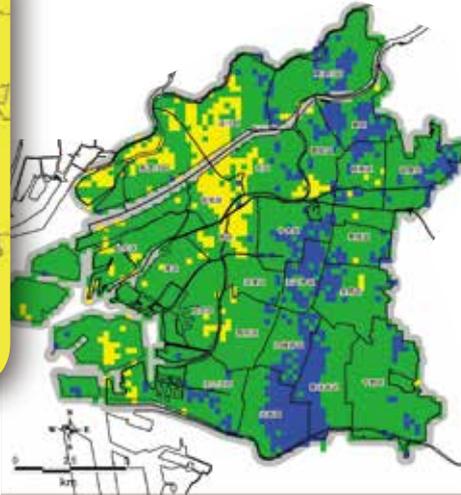
The Tonankai / Nankai Earthquake

Magnitude: 7.9 ~ 8.6

Probability: Approx. 70%

→ Dead: Approx. 100

→ Totally or semi-collapsed buildings: Approx. 26,200



Uemachi Fault Earthquake

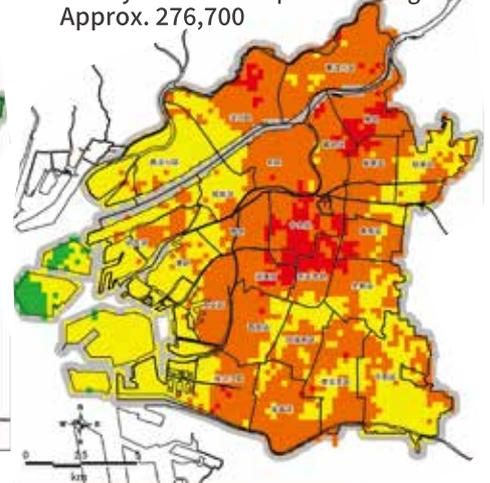
Magnitude: 7.5 ~ 7.8

Probability: 2 ~ 3%

(Belongs to the active fault group with high quake probability)

→ Dead: Approx. 8,500

→ Totally or semi-collapsed buildings: Approx. 276,700



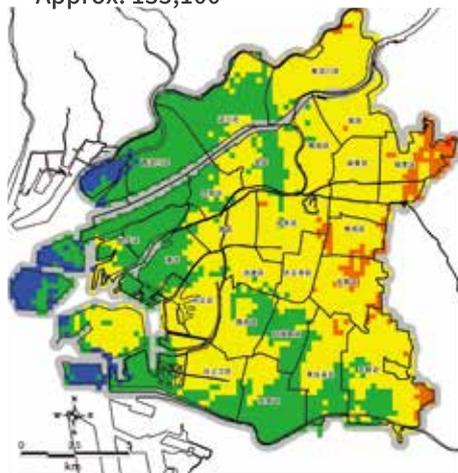
Ikoma Fault Earthquake

Magnitude: 7.3 ~ 7.7

Probability: 0 ~ 0.2%

→ Dead: Approx. 1,400

→ Totally or semi-collapsed buildings: Approx. 135,100



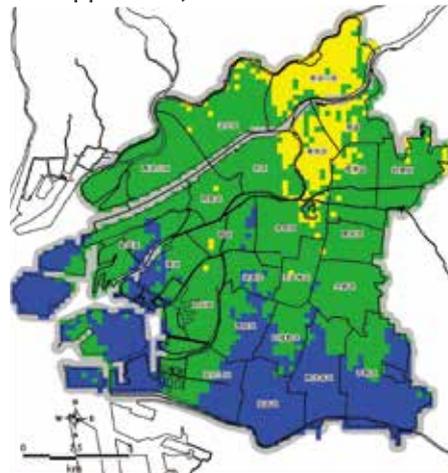
Arima Takatsuki Fault Earthquake

Magnitude: 7.3 ~ 7.7

Probability: 0 ~ 0.04%

→ Dead: Approx. 100

→ Totally or semi-collapsed buildings: Approx. 14,400



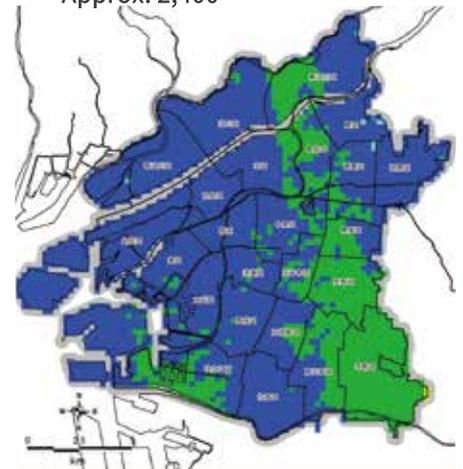
Median Tectonic Line Faults Earthquake

Magnitude: 7.7 ~ 8.1

Probability: 0 ~ 12%

→ Dead: 0

→ Totally or semi-collapsed buildings: Approx. 2,400



Seismic intensity lower 6

- People have difficulty standing.
- Wall tiles and window glass may break or fall.

Seismic intensity upper 6

- People have to crawl to move and may be thrown about.
- Wooden buildings with low seismic resistance may shift and lean or collapse.

Seismic intensity 7

- Even highly aseismic buildings may shift and lean in rare cases.
- Many reinforced concrete buildings with low seismic resistance may collapse.



Please refer to <http://www.city.osaka.lg.jp/kikikanrishitsu/>