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Earthquake Shaking Yellow Alert

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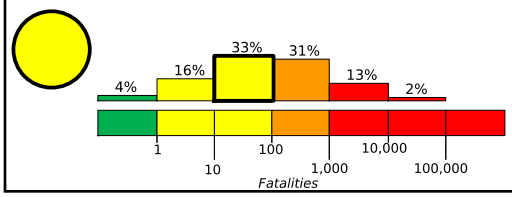
M 6.1, NEPAL

Origin Time: Sat 2015-04-25 06:15:22 UTC (12:00:22 local)
Location: 27.63°N 85.54°E Depth: 10 km

PAGER Version 1

Created: 2 weeks, 5 days after earthquake

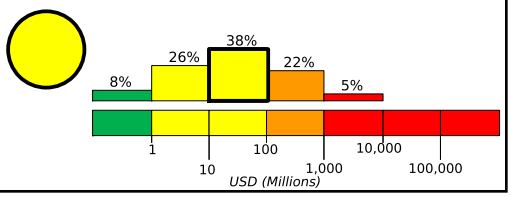
Estimated Fatalities



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 Nepal.

Estimated Economic Losses



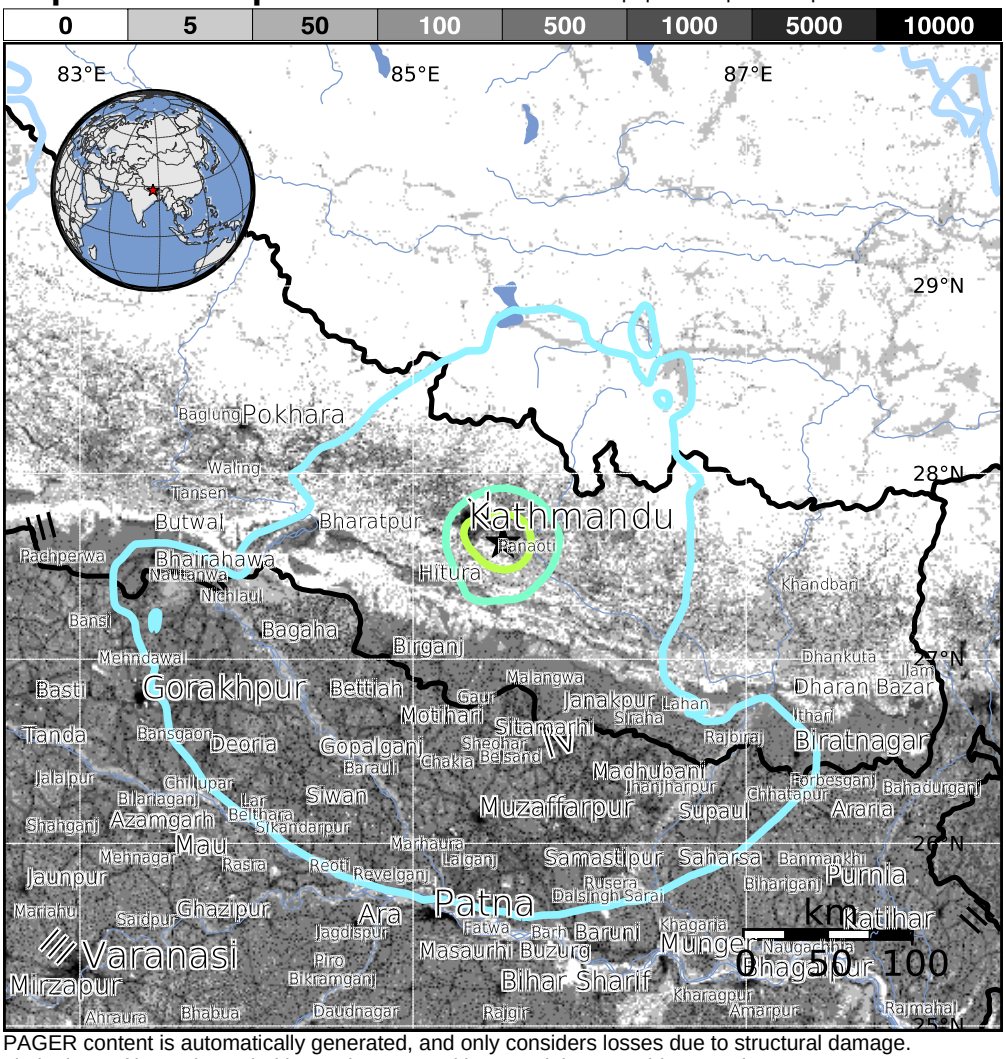
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)		- -*	101,142k*	75,390k	713k	2,765k	328k	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 highly vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are unreinforced brick with mud and adobe block construction.

Historical Earthquakes (with MMI levels):

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1998-09-03	139	5.6	VII(21)	0
1974-03-24	52	5.7	VIII(598)	0
1988-08-20	144	6.8	VIII(12k)	1k

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	Banepa	17k
VII	**Panaoti**	**28k**
VI	Bhaktapur	< 1k
VI	kankrabari Dovan	10k
VI	Nagarkot	4k
VI	**Kathmandu**	**1,442k**
IV	**Patna**	**1,600k**
III	**Gorakhpur**	**674k**
III	**Pokhara**	**200k**
III	**Dhankuta**	**22k**
III	**Varanasi**	**1,164k**

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: us20002bi4