

M 5.6, PAKISTAN

Origin Time: Fri 2015-10-23 00:27:39 UTC (05:27:39 local)

Location: 29.64°N 70.33°E Depth: 11 km

PAGER
Version 2

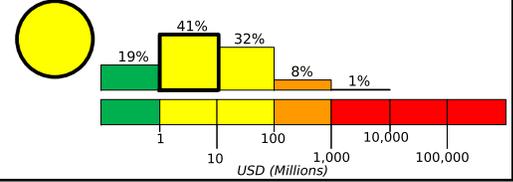
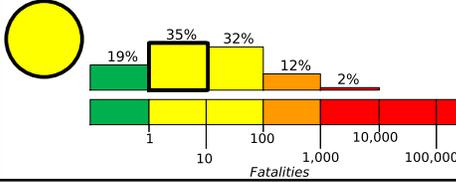
Created: 6 weeks, 1 day after earthquake

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

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

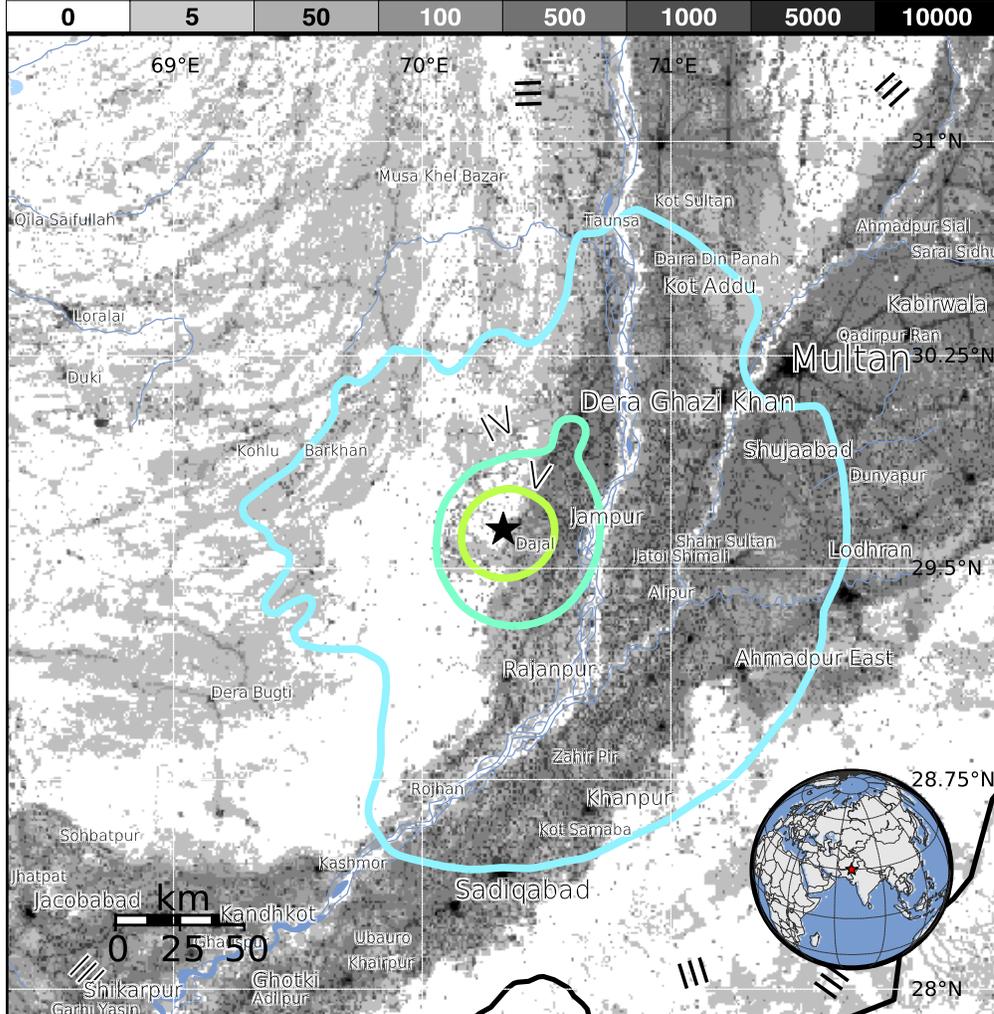


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)	--*	20,195k*	12,960k	1,176k	177k	16k	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
	Vulnerable Structures	none	none	none	Light	Moderate	Moderate/Heavy	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 vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are rubble/field stone masonry and unreinforced brick masonry construction.

Historical Earthquakes (with MMI levels):

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1993-11-16	326	5.6	VII(29k)	0
1990-03-04	394	6.0	IX(156)	11
1997-02-27	210	7.1	VIII(139k)	60

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

Selected City Exposure

from GeoNames.org

MMI City	Population
VI Dajal	18k
V Jampur	64k
IV Dera Ghazi Khan	236k
IV Jatoi Shimali	47k
IV Rajanpur	51k
IV Alipur	34k
IV Muzaffargarh	165k
III Bahawalpur	553k
III Sadiqabad	190k
III Multan	1,437k
III Jacobabad	171k

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: us10003qv5