

Earthquake Shaki Orange Alert

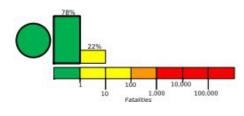


Origin Time: Tue 2011-08-23 17:51:04 UTC (13:51:04 local)

Location: 37.94oN 77.93oW Depth: 6 km

PAGER Version 1 Created: 2 hours, 5 minutes after earthquake

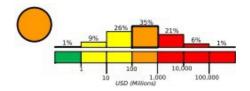
Estimated Fatalities



Estimated Population Exposed to Earthquake Shaking

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 EXPOSURE (k = x1000	*	19k*	9,627k*	2,285k	76k	23k	10k	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY	I	11-11	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
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

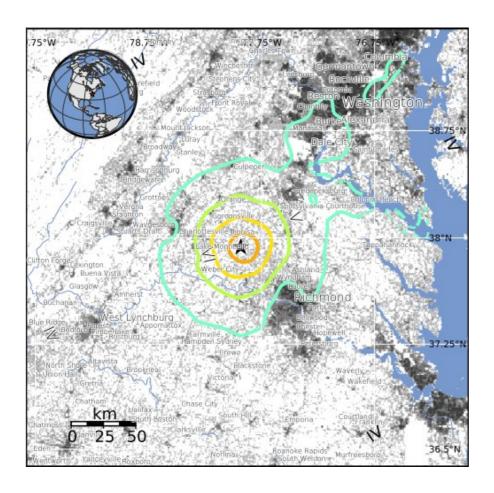
Population Exposure

population per ~1 sq. km from Landscan

0	5	50	100	500	1000	5000	10000
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Structures:

Overall, the population in this region resides in structures that are resistant to earthquake shaking,



though some vulnerable structures exist.

Historical Earthquakes (with MMI levels):

There were no earthquakes with significant population exposure to shaking within a 400 km radius of this event City Exposure

from GeoNames.org

MMI	City	Population
VII	Louisa	2k
VI	Gordonsville	2k
VI	Newington	21k
VI	Orange	4k
VI	Weber City	1k
VI	Lake Monticello	10k
V	Virginia Beach	425k
V	Washington	552k
IV	Richmond	191k
IV	Baltimore	611k
IV	Annapolis	36k

bold cities appear on map

(k = x1000) y add uncertainty. http://ea