



Earthquake
Shaking



Orange
Alert



M 5.8, VIRGINIA

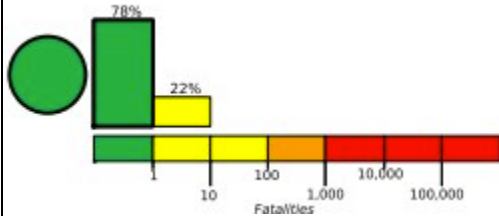
Origin Time: Tue 2011-08-23 17:51:04 UTC (13:51:04 local)

Location: 37.94oN 77.93oW Depth: 6 km

Created: 2 hours, 5 minute

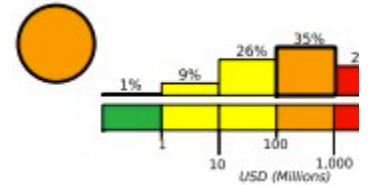


Estimated Fatalities



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 Econ



Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)	- -*	19k*	9,627k*	2,285k	76k	23k	10k	0
ESTIMATED MODIFIED MERCALLI INTENSITY	I	II-II	IV	V	VI	VII	VIII	IX
PERCEIVED SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Viol
Resistant Structures	none	none	none	V. light	Light	Moderate	Moderate/Heavy	Hea
Vulnerable Structures	none	none	none	Light	Moderate	Moderate/Heavy	Heavy	V. He

Estimated exposure only includes population within the map area

Population Exposure

population per ~1 sq. km from Landsat

0	5	50	100	500	1000	5000	10000
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Structures:

Overall, the population in this region is exposed to shaking that is resistant to earthquake shaking, though some vulnerable structures are exposed.

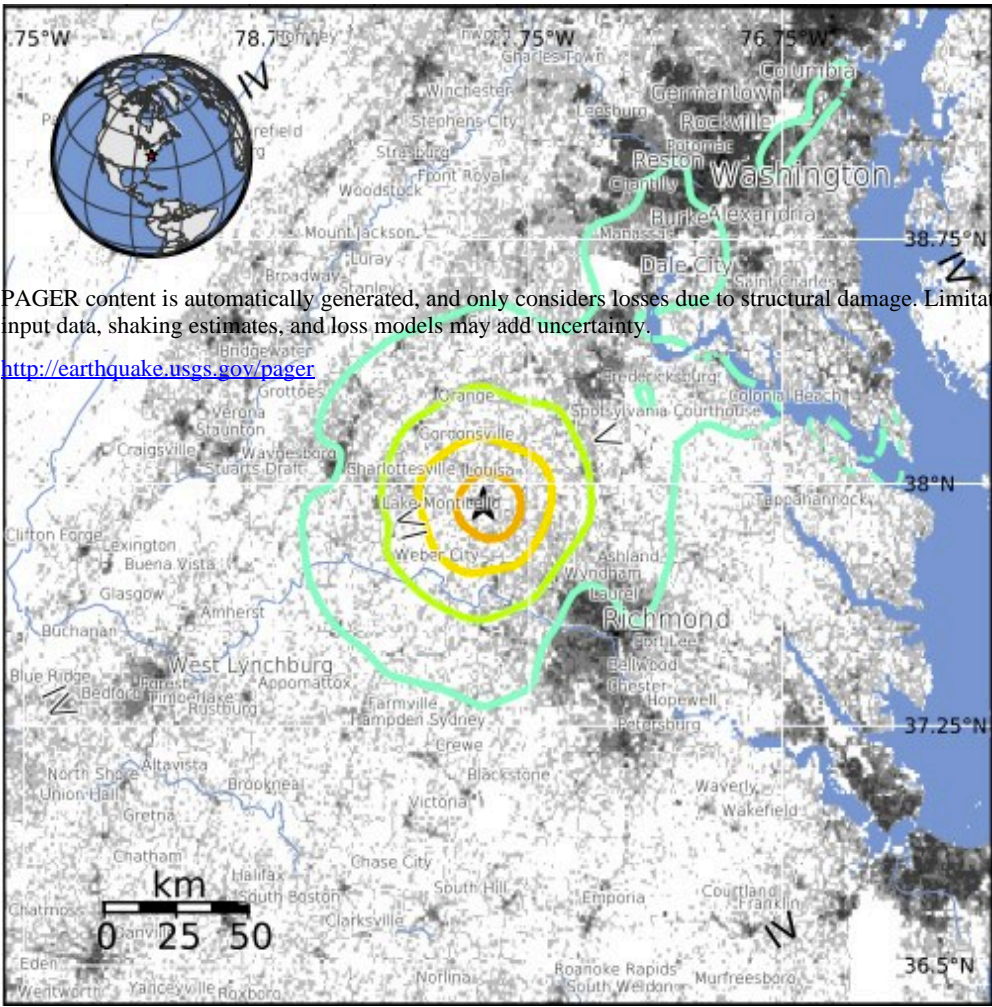
Historical Earthquakes (with MMI)

There were no earthquakes with significant population exposure to shaking within the radius of this event.

Selected City Exposure

from GeoNames.org

MMI	City
VII	Louisa
VI	Gordonsville
VI	Newington
VI	Orange
VI	Weber City
VI	Lake Monticello
V	Virginia Beach
V	Washington



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>

IV	Richmond
IV	Baltimore
IV	Annapolis

bold cities appear on map (k = x100)

Ever