

M 5.7, VIRGINIA

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

Location: 37.91°N 77.94°W Depth: 0 km

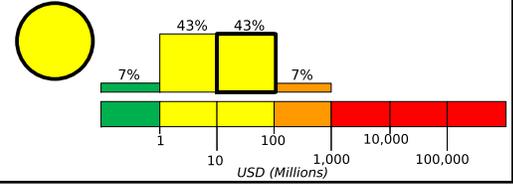
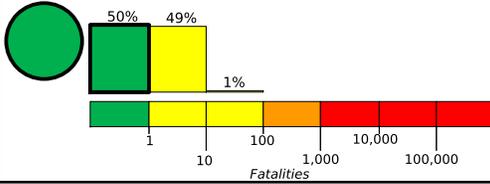
Created: 241 weeks, 2 days after earthquake

Estimated Fatalities

Yellow alert level for economic losses. Some damage is possible and the impact should be relatively localized. Estimated economic losses are less than 1% of GDP of the United States. Past events with this alert level have required a local or regional level response.

Estimated Economic Losses

Green alert level for shaking-related fatalities. There is a low likelihood of casualties.

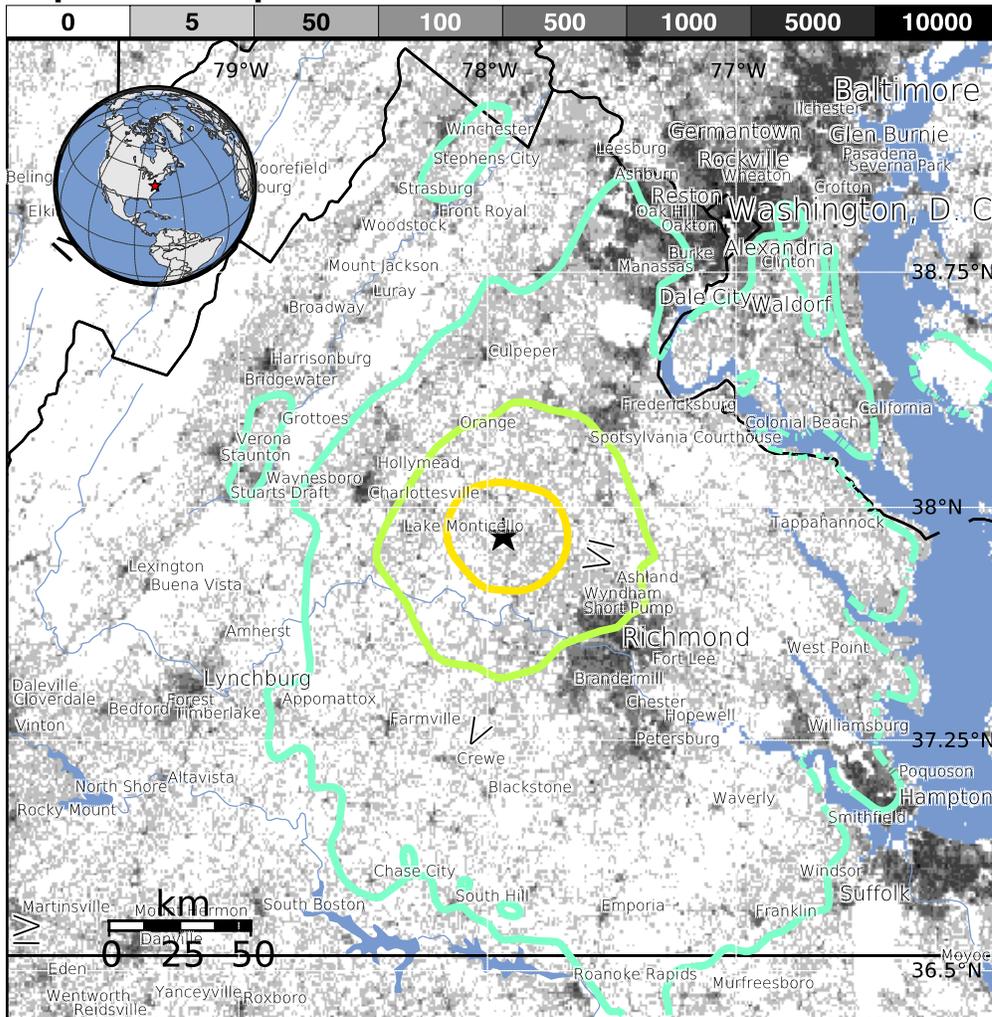


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)		--*	--*	8,542k*	3,955k	431k	26k	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



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.

Selected City Exposure

from GeoNames.org

MMI City	Population
VII Louisa	2k
VII Goochland	< 1k
VI Wyndham	10k
VI Gordonsville	1k
VI Ashland	7k
VI Palmyra	< 1k
V Richmond	204k
IV Washington, D. C.	602k
IV Virginia Beach	438k
IV Annapolis	38k
IV Baltimore	621k

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/earthquakes/eventpage/se609212>

Event ID: se609212