





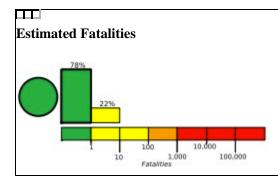


M 5.8, VIRGINIA

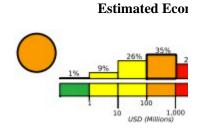
Origin Time: Tue 2011-08-23 17:51:04 UTC (13:51:04 local)

Location: 37.94oN 77.93oW Depth: 6 km

Created: 2 hours, 5 minute



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 Population Exposed to Earthquake Shaking**

ш

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	Viole
Resistant Structures	none	none	none	V. light	Light	Moderate	Moderate/Heavy	Hear
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 Landscan

0	5	50	100	500	1000	5000	10000
-			0.000	10 molecular (Co.	The State of the S		

#### **Structures:**

Overall, the population in this regio structures that are resistant to earth though some vulnerable structures (

### Historical Earthquakes (with MN

There were no earthquakes with sig population exposure to shaking witl 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	

.75°W	78.70 m/sy / mwood 75°W Gharles	76.75.WC
	Winchester Stephens City	Germantown (*) Leastouro Rockyille
	g Stresburg Fpont Royal Woodstock	Reston Washington
	: Mount lackson	RunkeAlexandria  Mante 3: 38.75 N

IV	Richmond
IV	Baltimore
IV	Annapolis

bold cities appear on map (k = x100)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitalions of input data, shaking estimates, and loss models may add uncertainty.

nttp://earthquake.usgs.gov/pager - Grottoes	Orange	Brodeticksburgt Golonia liBeach Spot-ylyania Courthouse	1
verana Staunton Craigsville Wavgesbara Distuarts Draft	Sharlottesville (kobisa	Spot syvania coordinate	
Clifton Eorge Exington 11 Buena Wista	Liake Montirellio	_ashland: 	
Glasgow Amherst  - Blue Birde West Lynchburg		Richmond Gottlee Eelwood	
West Lynchburg  Bedford Firmberiake  North Shore Altavista	A CONTRACT OF STREET	(Inester Hopewell Branch Betersburg 197.25°	N
Union Hall Gretne Low	Blackstone Victoria	Waverly Wakefield	
KIN sauth Baston	Chase City Sbuth Hill & orksyllie	Emporia Courtland Franklin	
Eden. Wentworth Yanceywlle Roxbord	Norlina	Roanoke Rapids Murrieesborg 36.5°N	1

Ever