

M 4.8, 2024 Whitehouse Station, New Jersey Earthquake

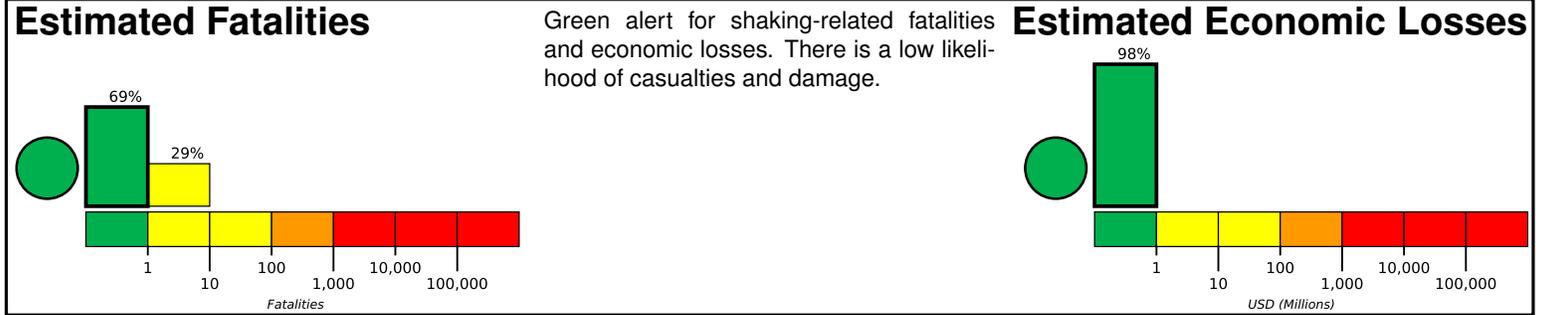
Origin Time: 2024-04-05 14:23:20 UTC (Fri 10:23:20 local)

Location: 40.7033° N 74.7581° W Depth: 4.7 km

FOR TSUNAMI INFORMATION, SEE: tsunami.gov

Created: 2 hours, 48 minutes after earthquake

PAGER Version 3

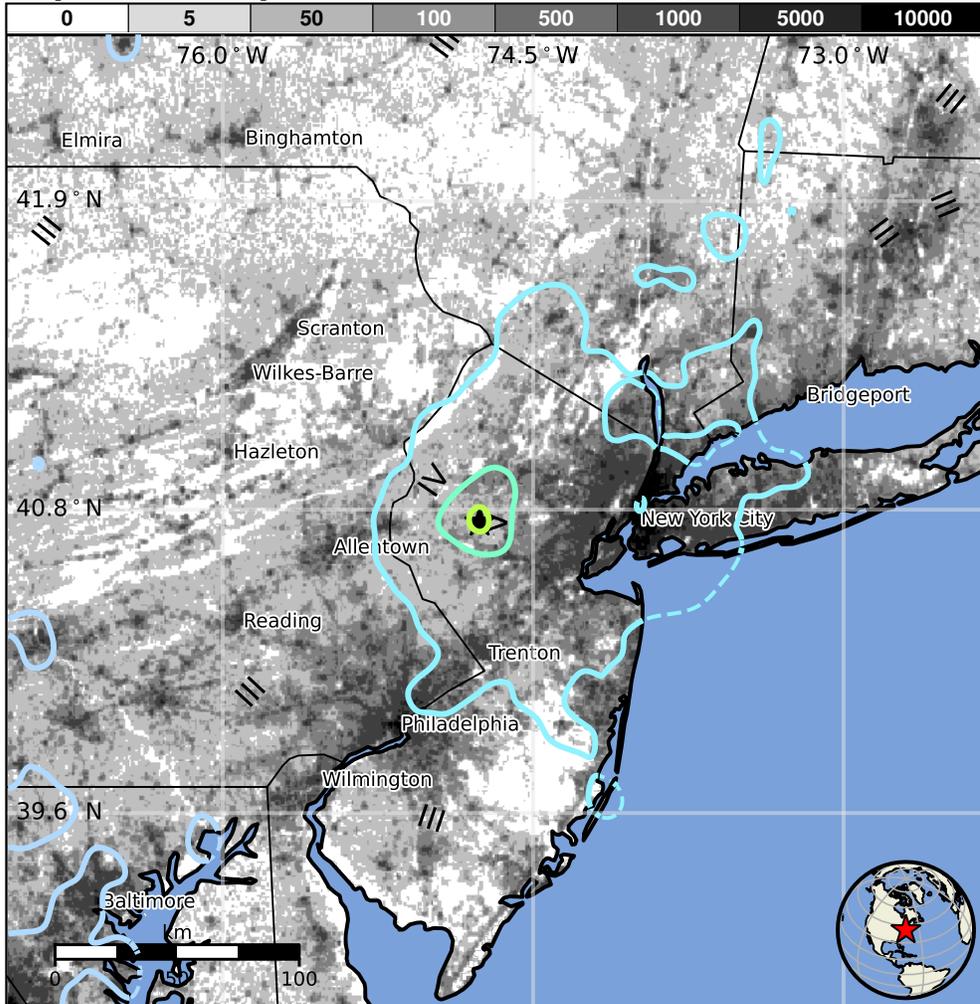


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)	—*	25,293k*	17,261k	211k	11k	0	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	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./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 vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1994-01-16	115	4.6	V(269k)	—
1983-10-07	362	4.9	VI(9k)	0

Selected City Exposure

from GeoNames.org

MMI	City	Population
VI	Califon	1k
V	Long Valley	2k
V	Chester	2k
V	Lebanon	1k
V	Bedminster	8k
V	Glen Gardner	2k
IV	Trenton	85k
III	Hartford	125k
II	Annapolis	38k
II	Harrisburg	50k
II	Washington, D.C.	602k

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.

<https://earthquake.usgs.gov/earthquakes/eventpage/us7000ma74#pager>

Event ID: us7000ma74