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# Earthquake Epicenters in Pennsylvania

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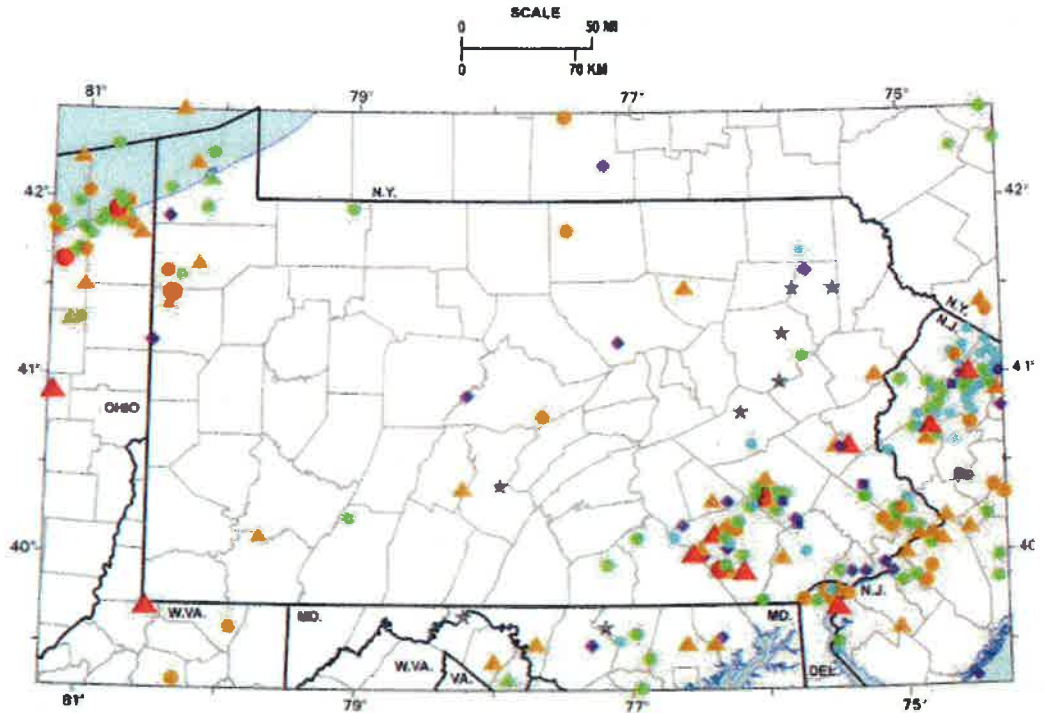
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	MAGNITUDES					
	≥4	≥3 and <4	≥2 and <3	<2	Unknown	Quarry blast or mine collapse
POST-1965 EVENTS						
PRE-1966 EVENTS						

## Simplified map of earthquake epicenters in and near Pennsylvania.

This earthquake epicenter map shows the location of historical quakes for Pennsylvania. The epi on the earth's surface above the center point (called the focus) of the earthquake's origin in the

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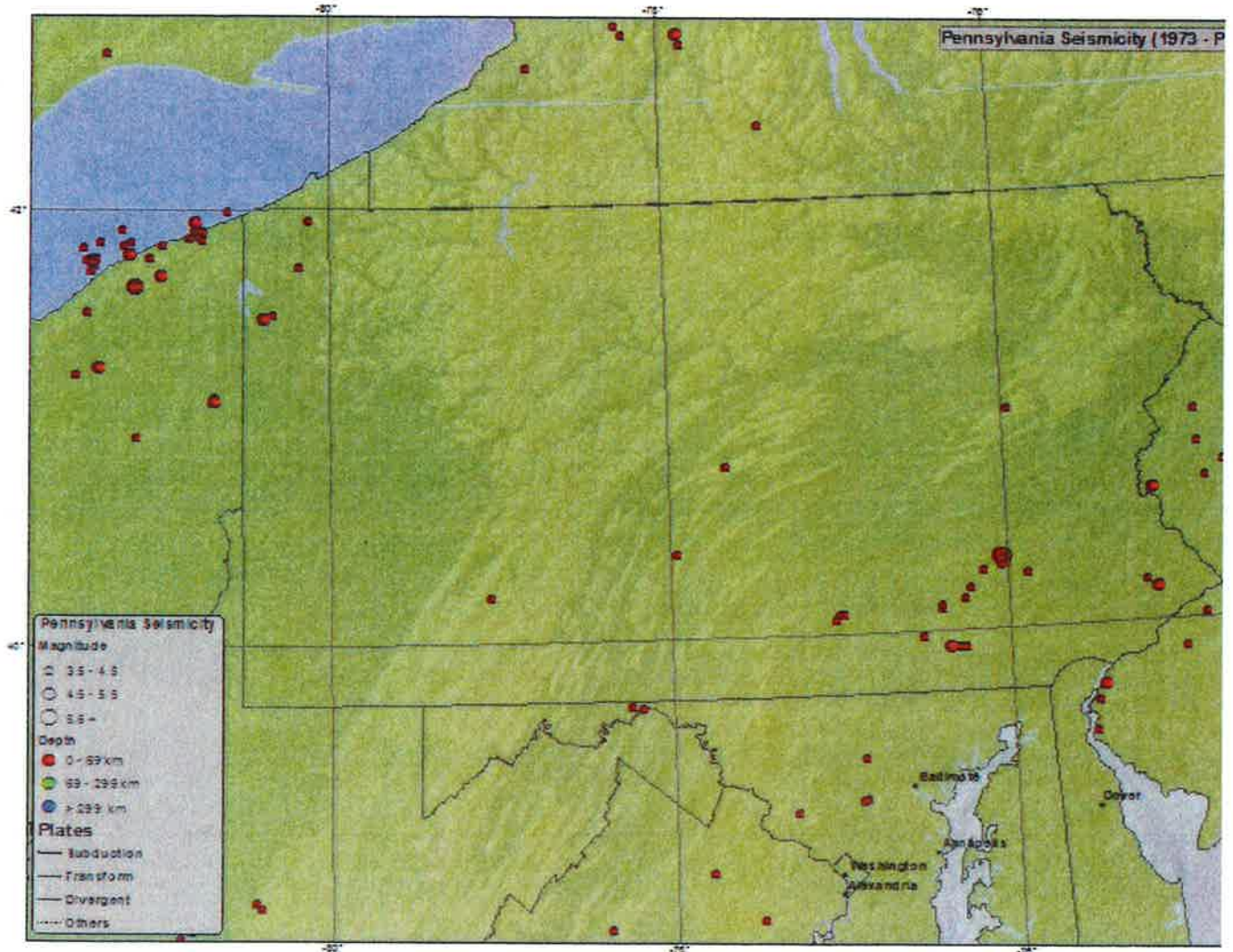




### Earthquake Hazards Program

## Pennsylvania

### Seismicity Map - 1973 to Present



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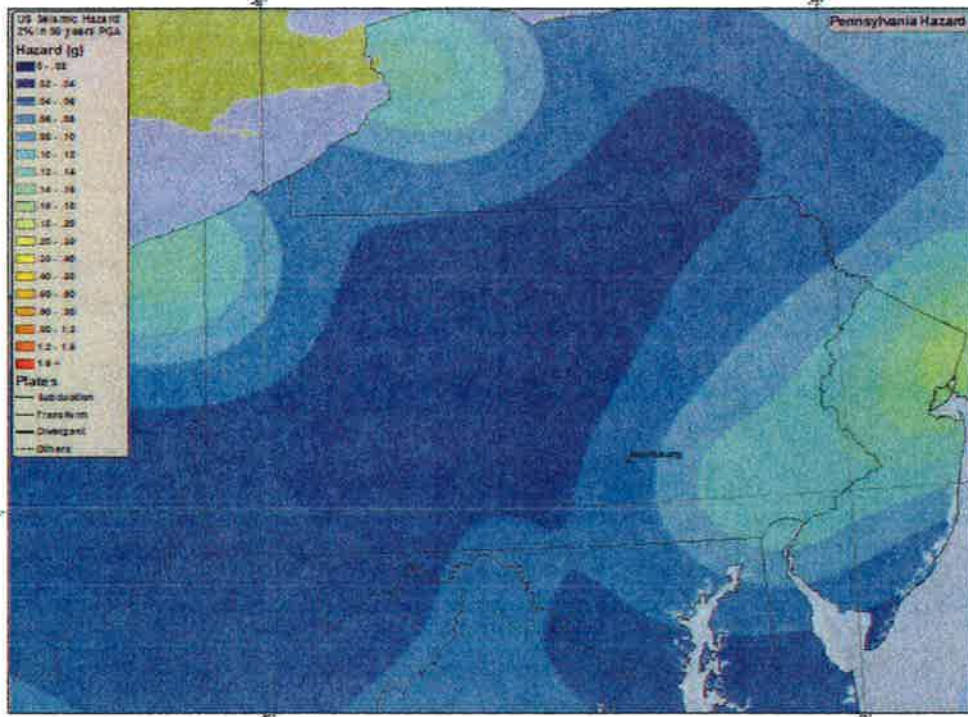




**Earthquake Hazards Program**

**Pennsylvania**

**Seismic Hazard Map**



[USGS National Seismic Hazard Maps](#)

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## Earthquakes in Pennsylvania

Pennsylvania experiences a relatively low level of earthquake activity compared to active states such as Alaska and California. Not only do earthquakes occur in our Commonwealth, but parts or all of Pennsylvania has been subject to the effects of earthquakes located outside our borders.

You can view earthquake epicenter data as part of the [DCNR Interactive map](#).

The Survey has an epicenter (location) map and catalog of all recorded seismic events from 1724 to 2003 in and near Pennsylvania: [Map 69, Earthquake Catalog and Epicenter Map of Pennsylvania](#). A [simplified version](#) of this map provides a quick overview of earthquake epicenters in and near Pennsylvania.

In 1998, the largest earthquake ever recorded in Pennsylvania, known as the [Pymatuning Earthquake](#), occurred in the region of Pymatuning Lake in northwestern Pennsylvania.

A [swarm of small earthquakes](#) occurred near Dillsburg, York County from 2008 until early 2011.

Our Educational Series 10 publication, [Earthquake Hazard in Pennsylvania](#), provides an extended discussion on the nature, occurrence, history, and hazards of earthquakes in the Commonwealth.

If you feel an earthquake, you can report your experience to the U. S. Geological Survey at "[Did You Feel It?](#)"

## **Our Seismograph**

The Pennsylvania Geological Survey has a seismograph established at its Middletown location. This seismograph is capable of recording the largest earthquakes in the world. Two records from this station are:

- Seismogram of the August 12, 2010, 7.1 magnitude (M) earthquake in [Ecuador](#).
- Seismogram of the July 16, 2010, 3.6 magnitude (M) earthquake in [Maryland](#).
- Seismogram of the January 12, 2010, 7.0 magnitude (M) earthquake in [Haiti](#).
- Seismogram of the April 21, 2006, 7.6 magnitude (M) earthquake in eastern [Siberia](#).
- Seismogram of the October 7, 2005, 7.6 magnitude (M) earthquake in [Pakistan](#). Though not as powerful as the March 28, 2005 earthquake in Sumatra, it was the deadliest earthquake in 2005 with nearly 90,000 people killed.
- Seismogram of the December 26, 2004, 9.0 M earthquake in the Indian Ocean off the coast of [Sumatra](#). This was the largest earthquake in the world since the 1964 Alaska earthquake. The second large Sumatra earthquake on March 28, 2005 was a 8.7 M, the second largest since 1964.

## **More information from other web sites**

### **From the USGS**

[Earthquake Hazards Program](#)

[Earthquake information for Pennsylvania](#)

[Seismic Hazard Map of Pennsylvania](#)

[Earthquake History of Pennsylvania \(to 1973\)](#)

### **From the Lamont-Doherty Cooperative Seismic Network**

[Recent Earthquakes in the Northeast](#)

### **From Pennsylvania Universities**

[Millersville University earthquake information](#)

[Franklin and Marshall College Geophysics Laboratory](#)

[Keystone College Seismic Monitoring station](#)

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