

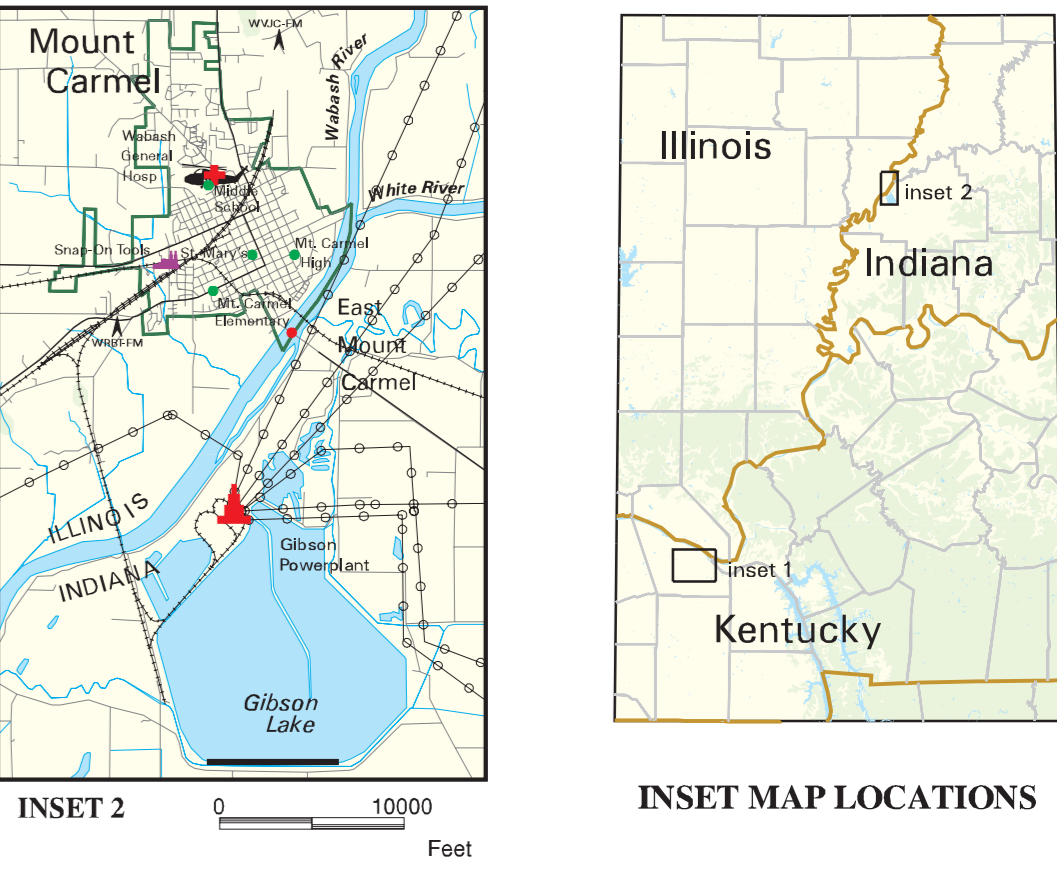
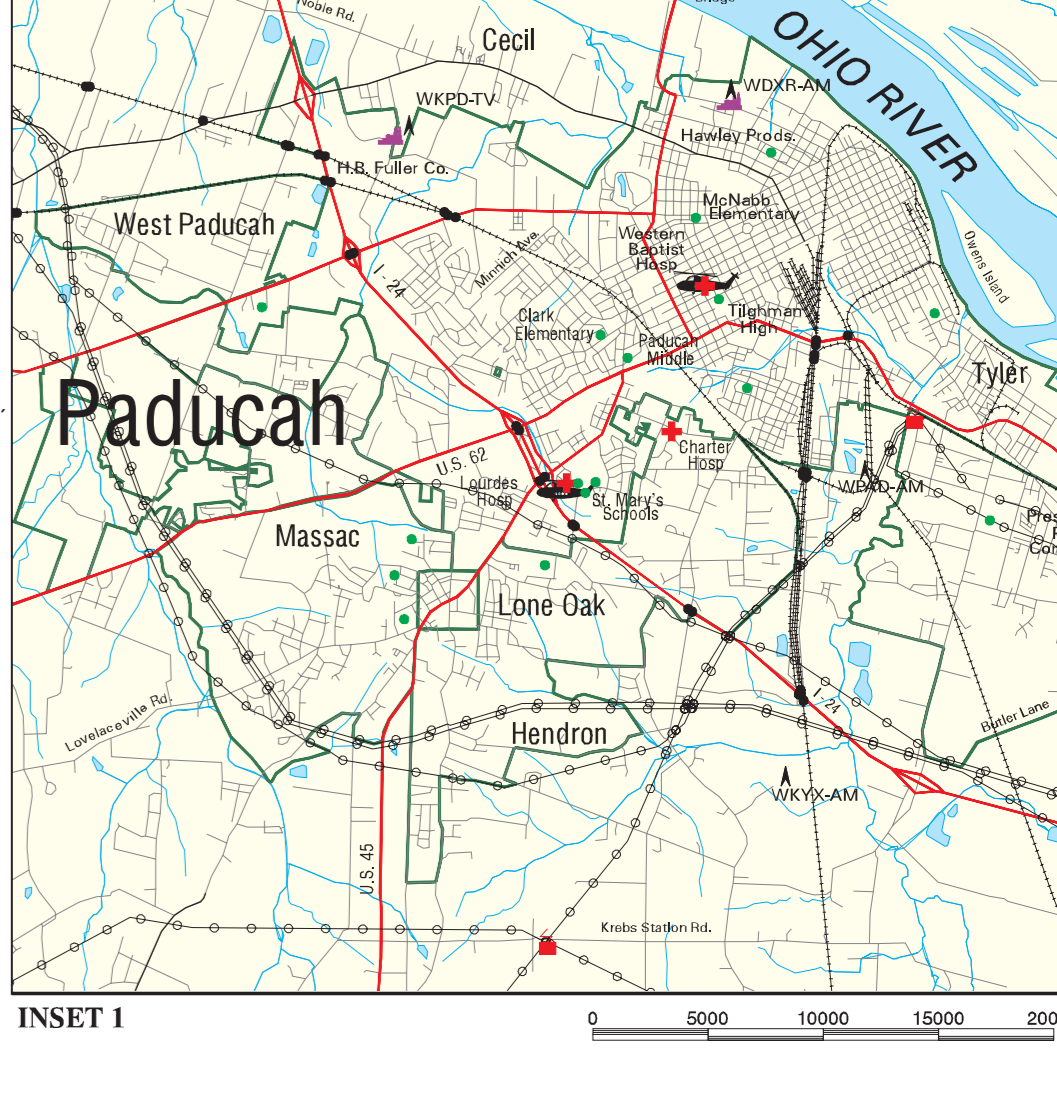
The intent of the map is to support regional earthquake emergency preparedness planning. Displayed are selected infrastructure features and the predicted susceptibility of earth materials to enhanced ground shaking.

Ground shaking, along with liquefaction and ground failures, are potential consequences of an earthquake and, depending on the quake's magnitude and intensity, can cause sudden and catastrophic loss. While ground shaking is generally the most direct cause of structure damage, it poses little direct danger to an individual. People may be victims of secondary impacts that are related to the damaged infrastructure. Sources of secondary impacts may include collapsing buildings, falling debris, the collapse of a dam, the rupture of a pipeline, or the release of toxic materials. To reduce the impact on a community from these infrastructure-related secondary sources, information needs to be available about the location of populations, major infrastructure features, and the expected behavior of the unconsolidated geologic deposits and rock upon which these features are located.

This map was prepared from digital data compiled for the purpose of identifying the location and proximity of known populations (towns, prisons, schools, military installations) to 1) potential infrastructure-related secondary damage sources (pipelines, dams, bridges, chemical plants) and 2) potential sources of emergency assistance (hospitals, airports, powerplants). The infrastructure features are underlain with the color that represents the surficial earth material's relative potential for ground shaking (yellow - more potential, green - less potential).

**Inset Maps**

The inset maps illustrate some of the detail available in the current GIS database. Although the databases represent specific elements of existing infrastructure, they are far from complete. The infrastructure within the project area is dynamic and a better information becomes available, the database will need updating.



**EXPLANATION**

Highway	population less than 1,000
Oak Grove	population 1,000 - 10,000
Paducah	population greater than 10,000

Municipal boundary	Bridge
Military installation	Powerline
County boundary	Powerplant
State boundary	Power substation
<b>TRANSPORTATION</b>	<b>PIPELINES</b>
County or local road	Selected oil pipeline
State route	Gas pipeline (with storage fields in Indiana)
Interstate or US route	<b>OTHER</b>
Interstate marker	Hospital
Tunnel or underpass	School
Railroad	Correctional center
Major airport	Toxic chemical facility
Airport - fixed base or abandoned	Communication tower
Heliports	Lookout tower
<b>WATERWAYS</b>	<b>GROUND SHAKING POTENTIAL</b>
Stream or waterway	surficial geologic materials with higher potential for ground shaking
Wide river or lake	surficial geologic materials with lower potential for ground shaking
Major lock and dam	
Major dam	

**Use of this Map**  
The map presents a regional picture of selected infrastructure features in relation to the earth's predicted susceptibility to enhanced ground shaking. The map is not suitable for site specific planning and should not be used in place of more detailed maps or site specific studies. Locations of selected infrastructure were extracted from existing databases and are presented without warranties of any kind.

**Acknowledgments**  
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**To Acquire the Data**  
This map is one of a series of six that comprise a seismotectonic map atlas of the lower Wabash Valley and vicinity. Information and ordering assistance is available from the USGS at 1-800-HELP-MAP or the Illinois State Geological Survey at 1-217-333-1838. The digital data are available on the Internet at  
<http://www.igs.uiuc.edu/rsd/home/IGSIndex.html>

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