

Student Response Sheet

Name: _____

Section 1. Population Density

1. Which two urban areas are the most densely populated areas of the state?
2. Name the two southwestern Indiana cities with the highest population density.
3. What is the typical population density of the city of Evansville? (include units)
4. Identify the source of the following data sets (Metadata):
 - a. Urban Areas: _____
 - b. Population Density: _____
5. Is population density a contributing risk factor in the death toll that can occur during an earthquake? Provide supporting details in your response.
6. Why would urban environments be at greater risk of experiencing structural damage to buildings and roads compared to rural locations? Explain your answer in detail.
7. Based only on urban development and population density data, would Indianapolis or Evansville be at greater risk of structural damage and deaths during seismic events? Provide supporting details for your response.

Section 2. Seismic Risk

8. Visually separate the state of Indiana into four regional sections (northeast, northwest, southwest, and southeast). Which region has the greatest number of:

Seismic Data	Region of Indiana with greater number of data points
Faults	
Epicenters	
Liquefaction Sites	

9. What is the normal magnitude of most earthquakes occurring in Indiana and what seismic event generated the greatest magnitude?
10. What is *liquefaction* and explain why this risk factor is so prominent in southwestern Indiana?
11. By analyzing the data created on your map, identify the urban area that may be at greater risk in terms of property damage and loss of human life. Provide detailed reasons for your selection.