

2. **What does the map say?** The second step in obtaining information from a map involves asking and answering questions about how things are arranged on the map.

Ask and answer “fact finder” questions. Some questions are asked to find facts that are important. Answering “fact finders” supplies you with basic information about the features on the map.

Ask and answer “pattern finder” questions. Pattern finders ask how things are arranged over the map. A basic distinction is made among clustered, random, and even arrangements. With clustered arrangements, things are located close together. With an uniform arrangement, things are evenly spread over the area. With random arrangements, there is no pattern to how things are arranged. Answering pattern finders supplies you with information about the arrangement of features on the map.

Examine the LST Map. Determine how the features on the map are arranged by answering the following questions. Write your answers in the spaces below.

- a. Are there areas of high land surface temperature shown on the map of Marion County?

 - b. Is the arrangement of areas experiencing high land surface temperatures clustered, random or uniform? What makes you say so?

 - c. Is the arrangement of areas experiencing low land surface temperatures clustered, random or uniform? What makes you say so?

 - d. Where on the map are the areas of high land surface temperatures clustered?
3. **What does the map mean?** The information obtained from a map should be combined into a brief, well-organized summary paragraph. This is the final step in obtaining information from a map. The summary involves speculating about the factors that could have led to the patterns in the distribution seen on the map and/or the possible implications of the patterns observed.

This summary paragraph should be comprised of five to six sentences that draw together the information obtained from the map.

Consider the **LST Map**. In the space provided below, write a short paragraph summarizing the information obtained from the map.

Part 2: Use the same three-step procedure to gather information from the **Median Household Income (MHI) Map**.

1. Determine what the **MHI Map** is about by completing the five tasks listed below. Write your answers in the spaces below.
 - a. Inspect the title

 - b. Describe the symbols

 - c. Examine the scale

 - d. Use the compass to find north

 - e. Check the footnotes

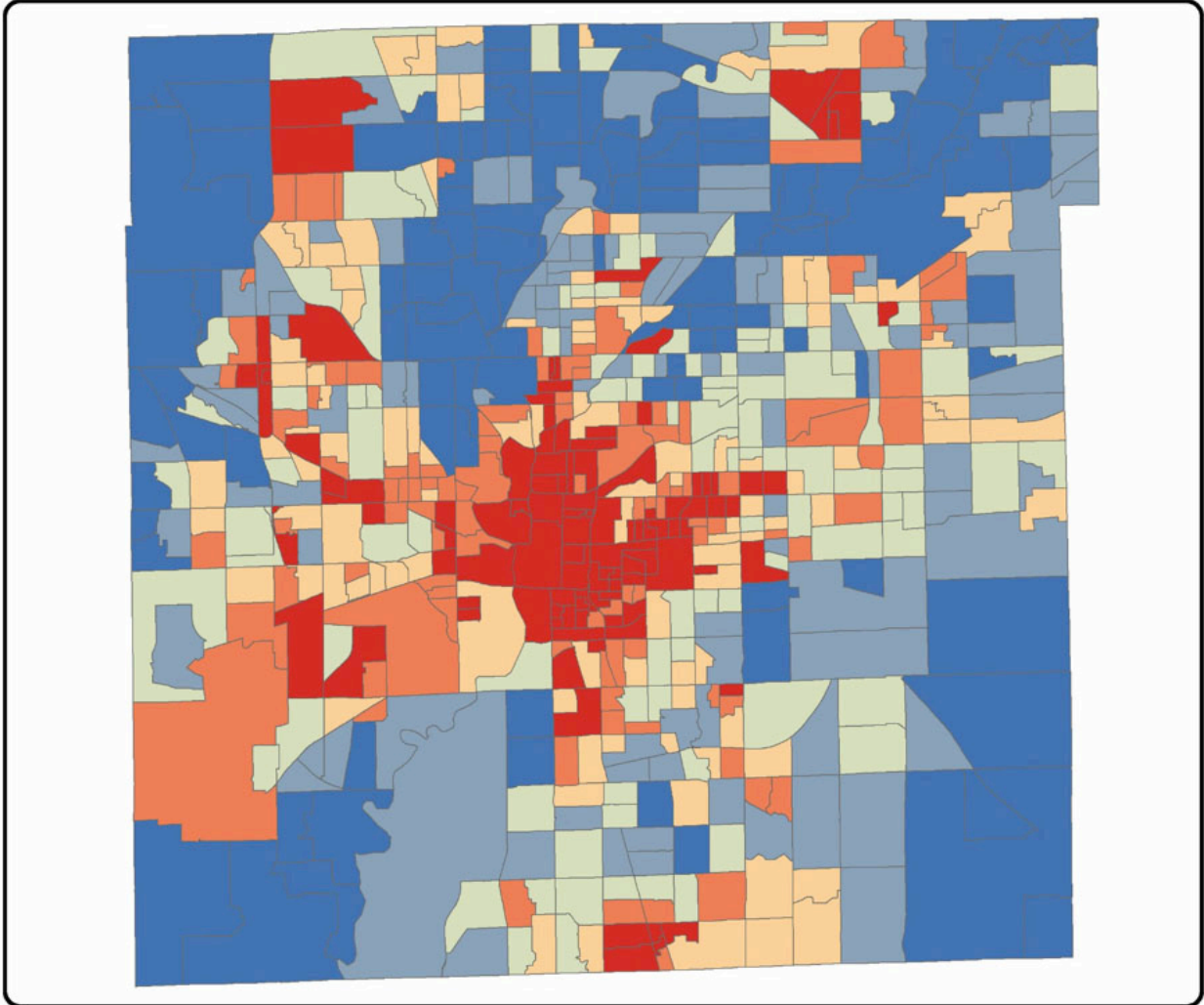
2. Examine the **MHI Map**. Determine how the features on the map are arranged by answering the following questions. Write your answers in the spaces below
 - a. Are there areas of low median household income shown on the map of Marion County?

 - b. Is the arrangement of areas experiencing low median household income clustered, random or uniform? What makes you say so?

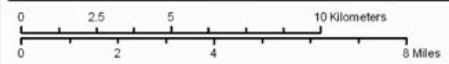
 - c. Where are high median household incomes located?

 - d. Where on the map are the areas of low median household incomes clustered?

3. Consider the **MHI Map**. In the space provided below, write a short paragraph summarizing the information obtained from the map.



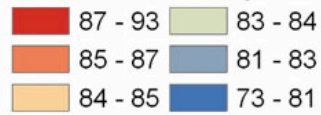
Land Surface Temperature (LST) Modeling

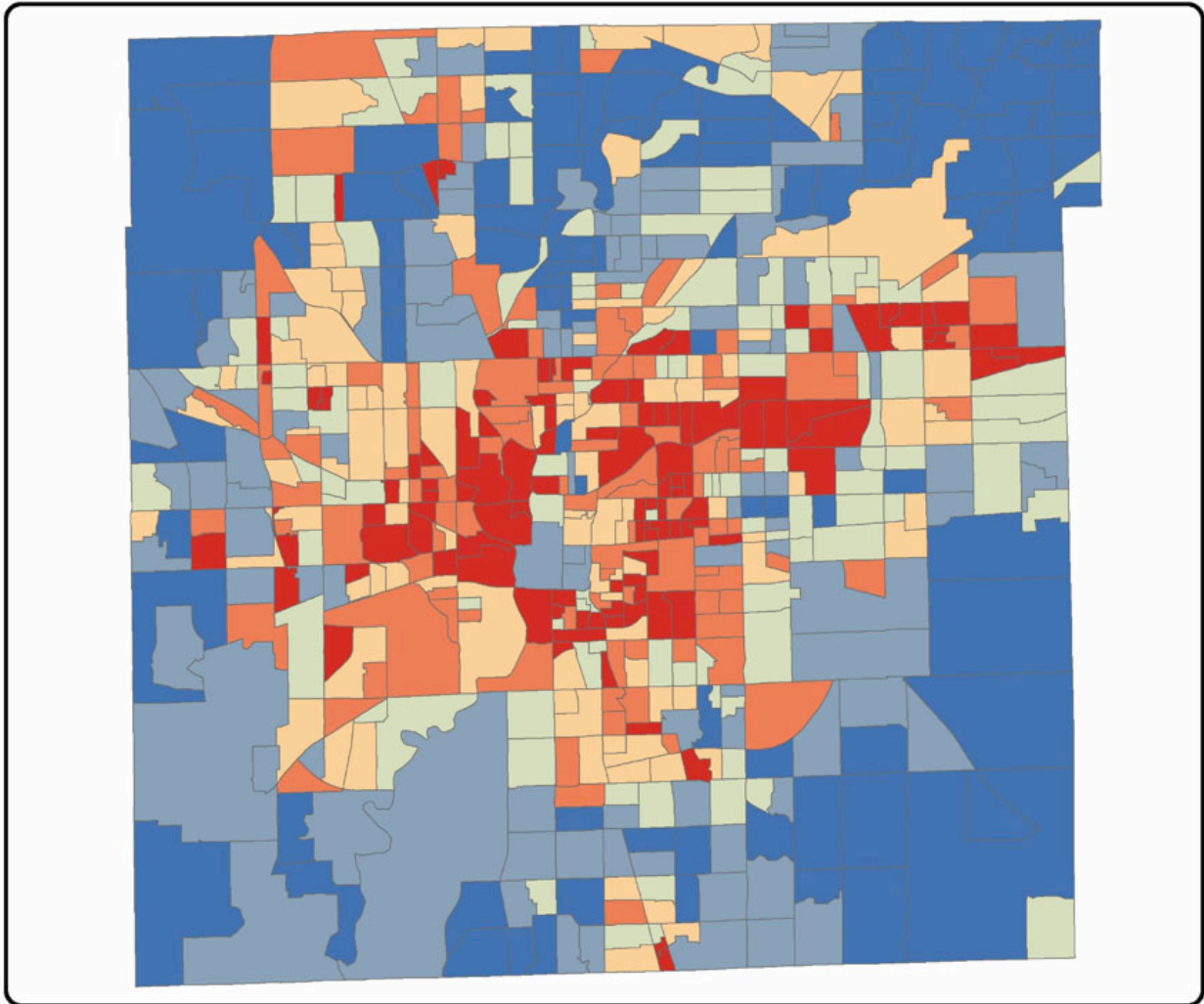


EHVI Analysis of Indianapolis, IN; Department of Geography ~ IUPUI
 Analysis: Johnson et al. (2012)
 Source: Marion County Census Blockgroups (2010), LST (Landsat5, 07.15.11)

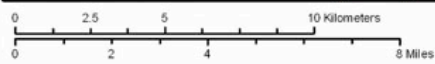


Land Surface Temperature (Fahrenheit)



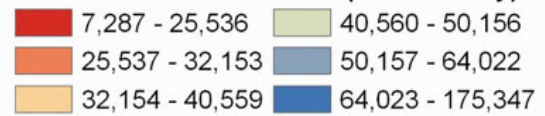


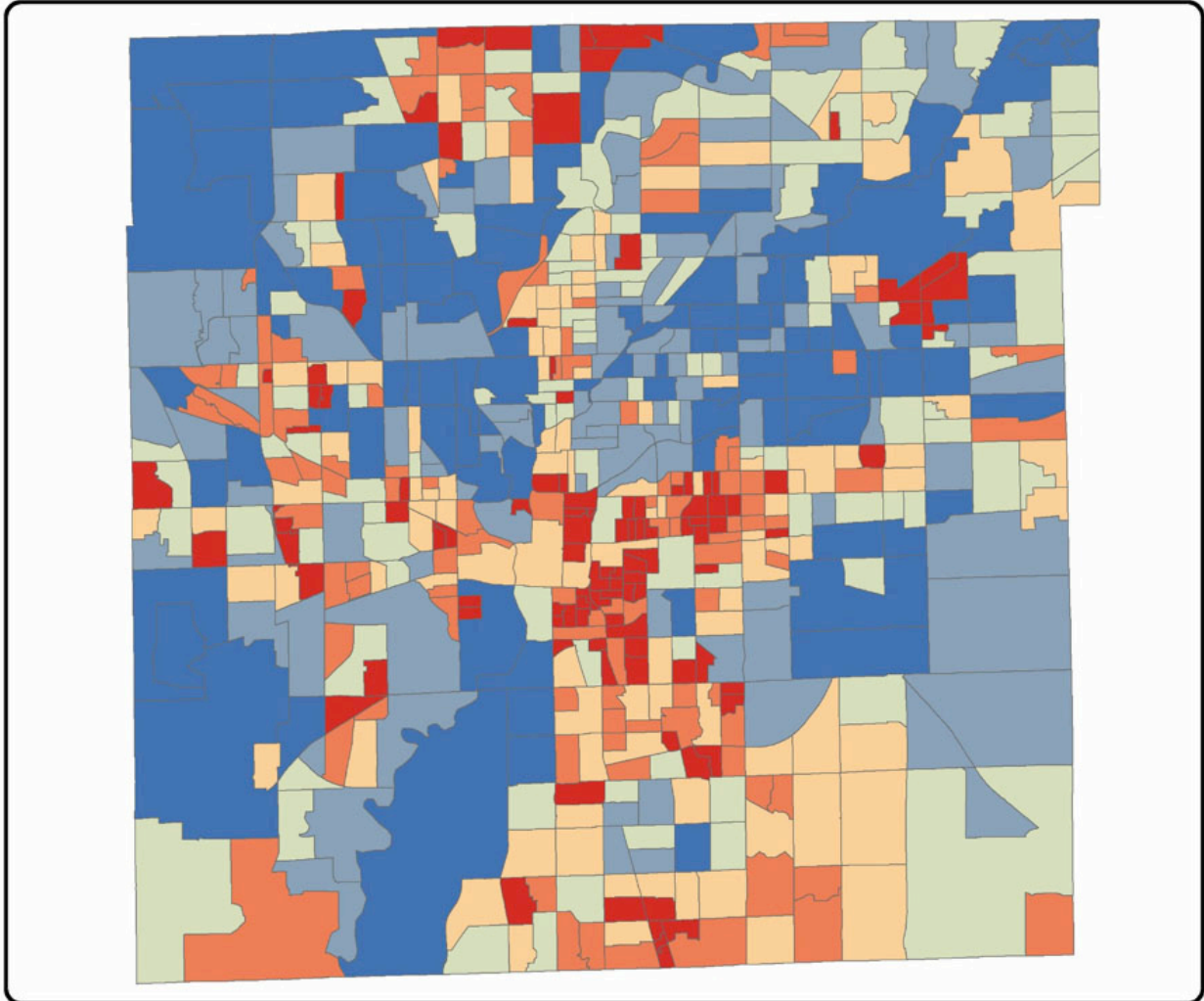
Median Household Income (MHI) Modeling



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 Analysis: Johnson et al. (2012)
 Source: Marion County Census Blockgroups (2010), LST (Landsat5, 07.15.11)

Median Household Income (US Currency)

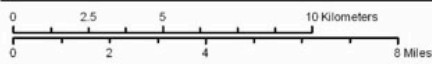




Extreme Heat Vulnerability

Index (EHVI) Modeling

Indianapolis 2010 EHVI Risk Level



- | | |
|--|---|
| High High | Medium Low |
| High Low | Low High |
| Medium High | Low Low |

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 Analysis: Johnson et al. (2012)
 Source: Marion County Census Blockgroups (2010), LST (Landsat5, 07.15.11)