

## Understanding Your Environment: Land Use Planning Activity 2 - Urban Development and Air Quality

### This investigation will help you to:

- Urban-Heat-Island Effect

#### Urban-Heat-Island Effect

- "Urban Heat Island Project" - NASA and the EPA  
Review of the collaborative effort of NASA and the EPA to study the urban-heat-island effect. Click on links on the sidebar menu to learn how the urban-heat-island effect impacts human health, to read relevant news articles, examine technology used to study urban-heat-islands, and much more.
- "High Spatial Resolution Airborne Multispectral Thermal Infrared Data to Support Analysis and Modeling Tasks in EOS IDS Project ATLANTA", by D.A. Quattrochi and J.C. Luvall  
Technical article goes in-depth into the study of the urban-heat-island effect in Atlanta. Examines the problem and the methods that are being taken to study it.
- "Baton Rouge Shines with Urban Heat" - NASA  
Contains a thermal data image of Baton Rouge, Louisiana.
- "Sacramento Glows with Urban Heat" - NASA  
Contains a thermal data image of Sacramento, California.
- "Salt Lake City Shows Hot and Cold Spots" - NASA  
Contains a thermal data image of Salt Lake City, Utah. Interesting to see how the nearby mountains provide a reprieve from the urban-heat-island effect for the city.
- Heat Island Group homepage - Lawrence Berkeley National Laboratory, Environmental Energy Technologies Division  
Click on a title to learn how air quality, high temperatures, cool roofs, vegetation, energy use, and cool pavements are related to the urban-heat-island effect. This site contains a lot of excellent general information as well as many excellent color graphics.