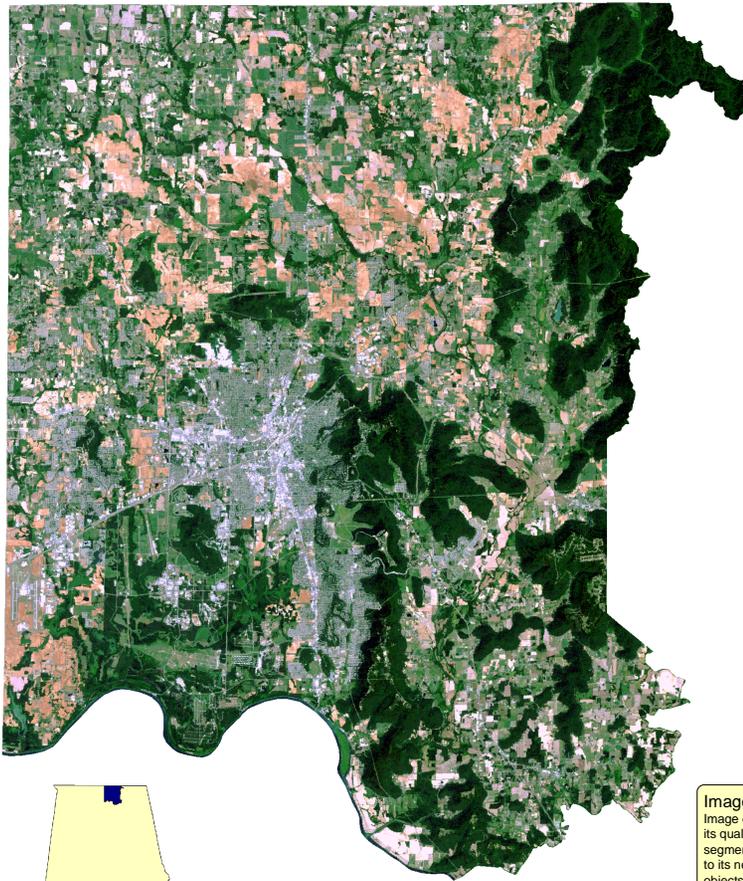


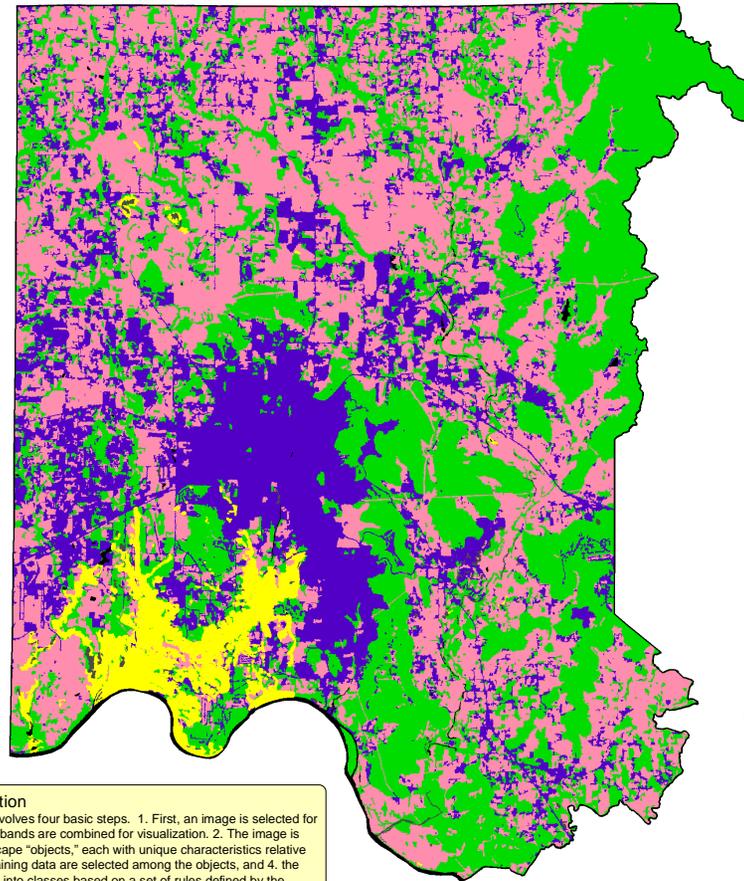
Land Cover/Land Use of Madison County, Alabama

Based on Landsat 7 ETM+ Satellite Imagery of May 14, 2000

True-color Composite Image



Classified Image



Remote Sensing the Surface of Earth
 This map depicts current land cover and land use in Madison County, Alabama. This image was derived from the Enhanced Thematic Mapper Plus instrument on the Landsat 7 satellite. This Satellite orbits Earth at an altitude of 705 km (438 mi.) and images the entire globe every 16 days. The spectral characteristics of the ground are sampled every 28.5 m (93.5 ft.). Seven sensors collect spectral data over different wavelength ranges. These data are then processed to partition the landscape into classes. Such information can then be used to address a wide range of spatial applications involving land management, environmental assessment, and urban planning.

LEGEND

- Developed Land
- Agricultural Land
- Woodland
- Wetland
- Water

Fractional Area of Madison County

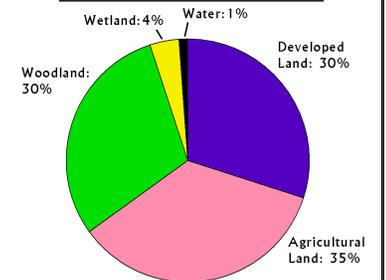
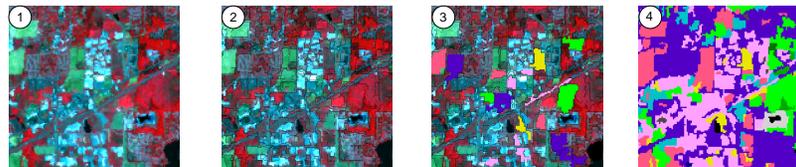


Image Classification

Image classification involves four basic steps. 1. First, an image is selected for its quality and various bands are combined for visualization. 2. The image is segmented into landscape "objects," each with unique characteristics relative to its neighbors. 3. Training data are selected among the objects, and 4. the objects are partitioned into classes based on a set of rules defined by the image analyst and a "fuzzy" logic algorithm.



Location of Madison County in Alabama