

Names:

Date:

## Using the Tree Atlas Tool to Find Expected Changes in Tree Species Abundance for Studies Conducted in the Eastern US

### Guiding Question:

To what extent will climate change impact suitable habitat of the abundant tree species identified in your forest plot?

### Definitions:

- *FIA* is the Forest Inventory and Analysis conducted by the US Forest Service.
- **Importance Value (IV)** is a relative abundance measure that combines relative density and basal area per species and ranges from 1-100 (a stand with only one species = 100).

### Step 1. Explore Tree Atlas and Develop your Research Question and Hypothesis

1. Spend 5-10 minutes exploring the *Tree Atlas* tool using the *Tree Atlas Procedure* and/or the *Tree Atlas Screencast Tutorial*.
2. With your partner, refine the research question that you developed while *Investigating Climate Change Data* so that your question can be answered using the *Tree Atlas* tool and the climate data you have already recorded.
3. Record your revised research question below:
  
4. Write a hypothesis statement that will either be supported or not supported by the results of your investigation. State your hypothesis:

### Step 2. Investigate and Record Results

1. With your partner, use the *Tree Atlas Tool* (following the step-by-step *Tree Atlas Procedure* and also explained in the *Screencast Tutorial*) to determine the habitat



suitably for EACH of the most abundant species in your field plot currently and in the future based on the high emission climate scenario. Record data in Table 1.

Table 1: Impact of Climate Change on Tree Habitat Suitability

Tree Species	Current FIA	Future Scenario:			

Record notes and other observations below:



