i-Tree Canopy

Get started in three easy steps:

One
- Load ESRI Shapefile
- Load Sample Project

Two
- Configure Survey

Three
- Begin i-Tree Canopy Survey

More Information!
- Technical Notes

With i-Tree Canopy, you can load a polygon boundary in ESRI Shapefile format on the map above and conduct a cover assessment for a project area.
- Collect data on your own cover classes of interest.
- 500-1000 survey points are suggested; the more points you complete, the better your results will be.
Processing a boundary file for use in i-Tree Canopy

Download a boundary file from the ESRI website >

- Go to the [ESRI Census 2000 TIGER Data](http://arcgis.esri.com/) website.
- Select the State of interest.
- In the Select By Layer pull-down menu select the boundary file you are interested in analyzing (Figure 1).
  - The Designated Places 2000 selection will provide boundaries for cities, towns etc.
- Select Submit Selection
- Check the county of interest and select Proceed to Download.
- Select Download File and unzip the file to extract the all the files within it; .dbf, .shp and .shx.
You choose the cover classes

<table>
<thead>
<tr>
<th>Cover Class</th>
<th>Abbreviation</th>
<th>Description</th>
<th>Show Estimation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tree</td>
<td>T</td>
<td>Tree, non-shrub</td>
<td></td>
</tr>
<tr>
<td>Non-Tree</td>
<td>NT</td>
<td>All other surfaces</td>
<td></td>
</tr>
</tbody>
</table>
Classify random points
PI Mapping
Change Analysis

2002

2007
i-Tree-Hydro

- Separate GIS program
- Calibrates against stream flow data
i-Tree Hydro

- More complicated model
- Simulates stream flow
  - Watershed based analysis
- More data requirements
- Better than just estimating interception/transpiration
  - Links to flow
  - Just because a tree intercepts water does not mean it affects stream flow
  - Hydro processes being linked to Eco and Design
Hydro Steps

1) Determine your watershed
2) Download and process national digital elevation data
3) Determine cover attributes
4) Get started with Hydro
5) Calibrate the model
6) Model new scenarios