



www.itreetools.org

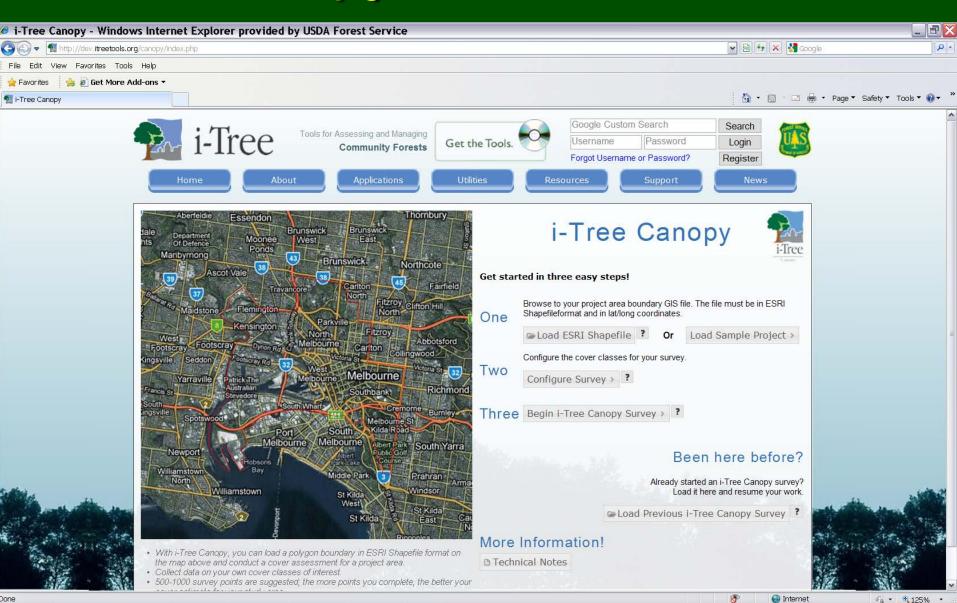
i-Tree Canopy

(a) (b) (c) (c) (c) (d) (d) (e) (e)

🎒 start 🧻



100%

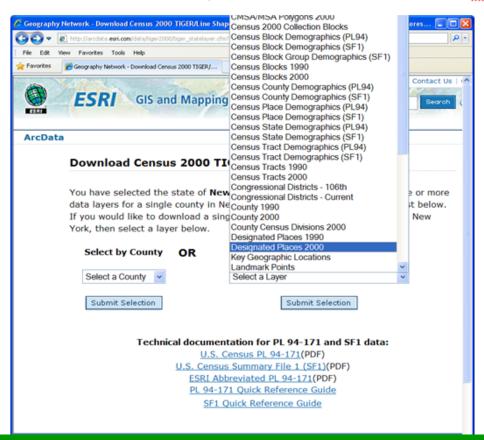




Processing a boundary file for use in i-Tree Canopy

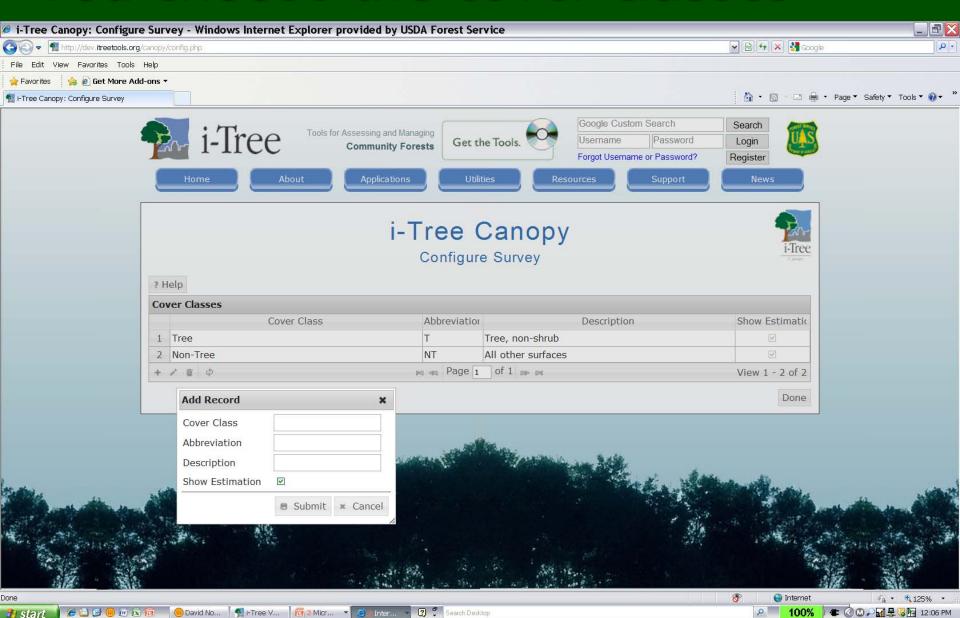
Download a boundary file from the ESRI website >

- Go to the ESRI Census 2000 TIGER Data 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).
 - o 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.



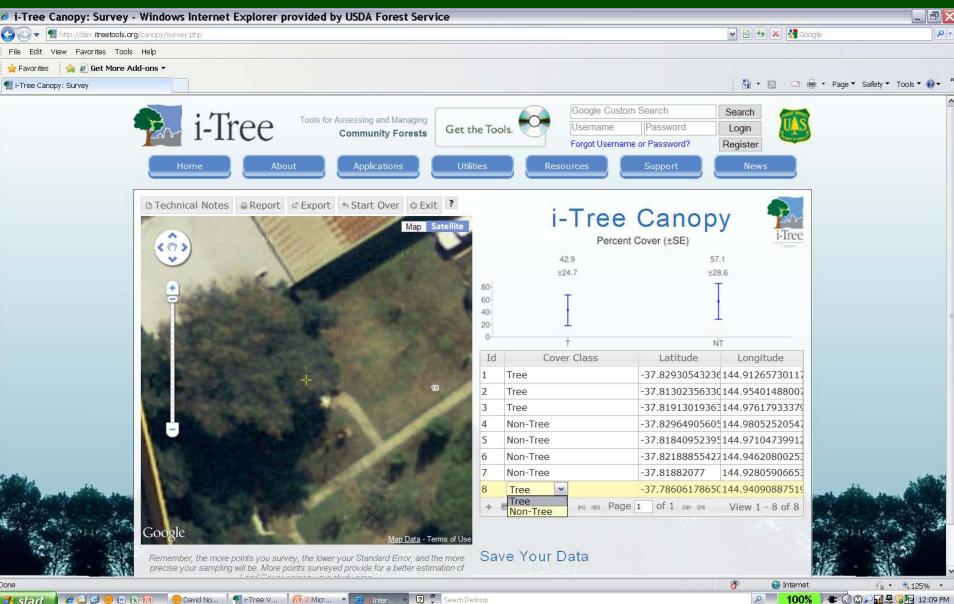


You choose the cover classes



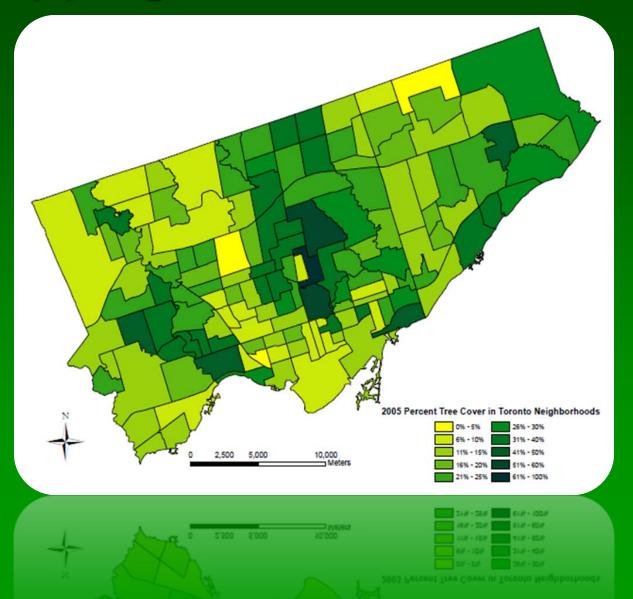


Classify random points



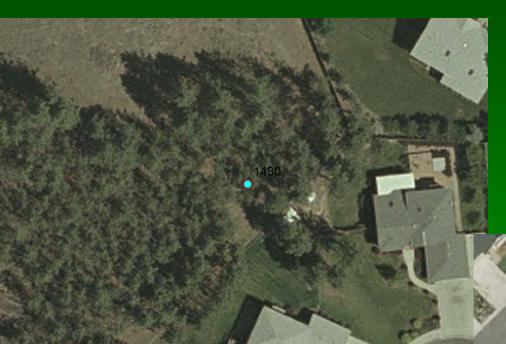


PI Mapping



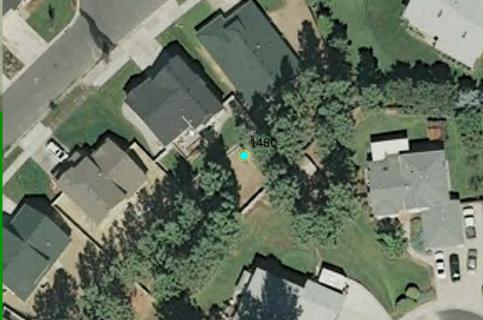


Change Analysis



2007

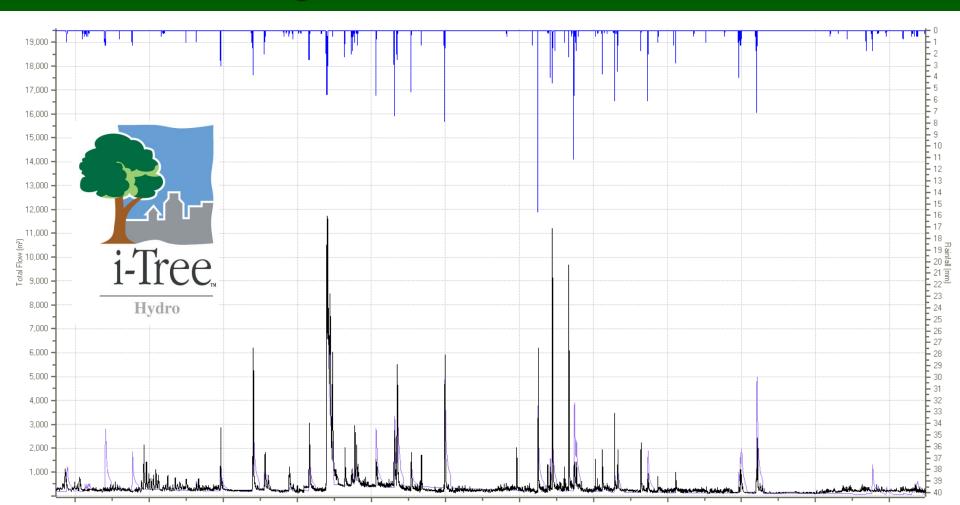




i-Tree-Hydro



- **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

