

i-Tree

Tools for Assessing and Managing Community Trees & Forests

www.itreetools.org



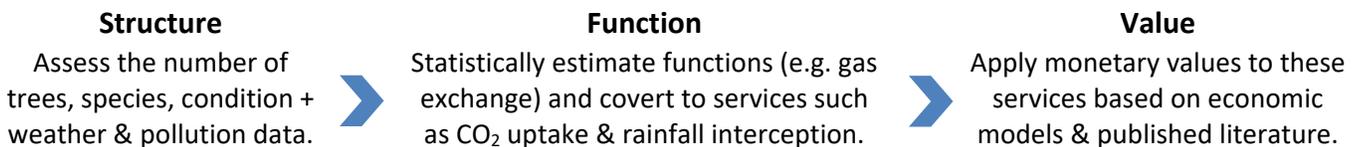
What is i-Tree?

i-Tree is a suite of **free software tools for estimating and quantifying the benefits trees provide** to our communities. These benefits are typically expressed in dollars and amounts of carbon dioxide and air pollution removal (ozone, sulfur dioxide, etc.), as well as stormwater reduction. **Raising awareness** of these tree benefits increases the desire to nurture and protect trees.

Who is using i-Tree?

- **Teachers, students, & homeowners** *learning* about trees beyond their aesthetic benefits.
- **Companies** *investing* in natural capital as part of their sustainability efforts.
- **Governments & organizations** *improving* their community forest management.
- **Consultants & Innovators** *developing* urban forest management plans, climate action plans, and interactive tree maps for their clients and the public.

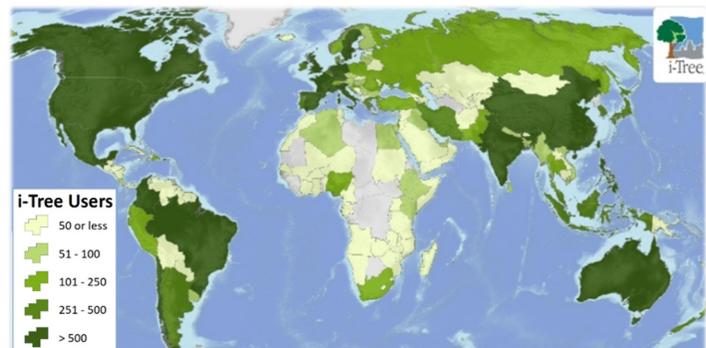
How does i-Tree work?



Where does i-Tree come from?

i-Tree was **established in 2006** and is now used around the world. Based on peer-reviewed, publicly accessible **USDA Forest Service** research, the mission of i-Tree is to disseminate this science to large numbers of diverse users in an easy to use format.

i-Tree is a non-profit, cooperative effort among these partners:



How do I get i-Tree?

Learn about these free tools at www.itreetools.org. Links to them as well as references, project examples, and video learning segments are available. Want to ask a question? User support is provided: info@itreetools.org.



Tree Benefits! Growing 20 years in Ohio, USA, one red maple can:

- **Remove** 3,000 pounds of **carbon dioxide** from the atmosphere.
- **Filter** 15 pounds of **pollution** from the air we breathe.
- **Save** 500 kWh of **electricity** and 20 million BTU of **fuel** used for cooling & heating.
- **Avoid** 5,000 pounds of **CO₂** and 30 pounds of **pollution** in powerplant emissions.
- **Intercept** 25,000 gallons of **rainfall** and **avoid** 4,500 gallons of **runoff**.

i-Tree

Tools for Assessing and Managing Community Trees & Forests

www.itreetools.org



MyTree

Explore the benefits of trees near you.

- Got 2 minutes?
- Go to mytree.itreetools.org on your phone, tablet or laptop!

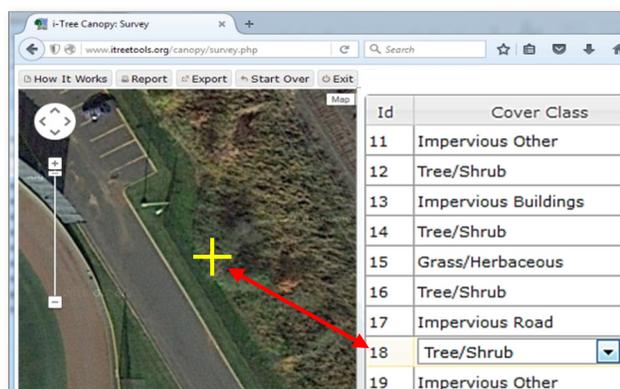
i-Tree Canopy

Estimate tree & ground cover for a large project.

- A free web tool: canopy.itreetools.org
- Simple, random sampling of a project area to estimate tree and ground cover.
- You also get total estimates of tree benefits: - CO₂ & air pollution removal - Stormwater reduction

4 easy steps & 30 minutes:

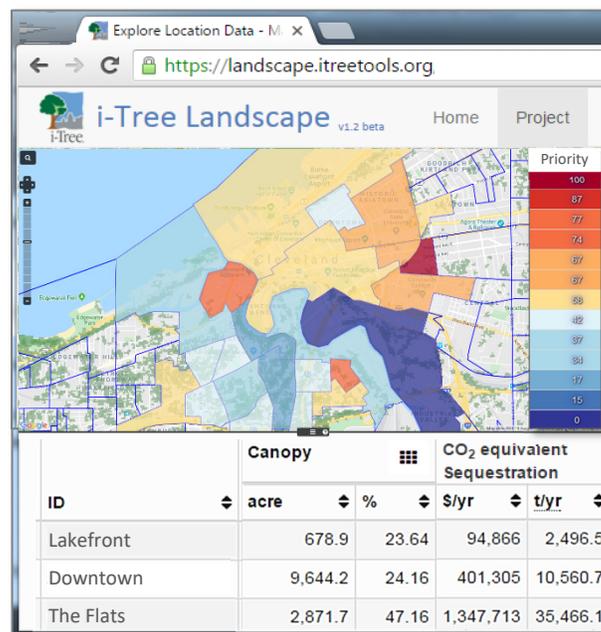
1. Draw project boundaries on a Google map.
2. Enter ground cover types to survey.
3. Select the ground cover you see on the map at random, auto-selected locations.
4. Click the Report button for results!



i-Tree Landscape

Learn about your entire community.

- A free web tool: landscape.itreetools.org
- US watersheds, cities, census areas & more
- Get estimates of tree benefits in 10 minutes:
 - CO₂ mitigation
 - air pollution removal
 - stormwater reduction
 - health benefits
- Generate planting prioritization scenarios.



i-Tree Eco

For community forestry managers.

- A free tool for Windows PCs.
- Supports street tree inventory imports.
- Includes mobile phone/tablet field data collection tools for complete or sample inventories.
- The best i-Tree estimates for tree benefits with comprehensive reports.
- Download Eco at www.itreetools.org



OurTrees

Provides data on a community and its tree cover.

- Quick tree canopy and related information for any city or town within the continental United States using your a browser or Android / Apple device
- With inputs of a city or town it will estimate the amount of carbon dioxide and air pollution a city's trees remove, as well as stormwater impacts.

It's quick and easy! Just a couple of simple steps to get results.

1. Enter your city or town's name and state
2. Get a complete report immediately on your smartphone or computer

OurTrees Community

Location! Location! Location! Context is important when it comes to the trees all around us. Here are some fast facts from the U.S. census:

Boston, MA

— Population

Total Population	617,594
Under 5	32,420
Under 18	103,710
Over 64	62,237
Median Age	31 years
Minority Percent	46.1%

— Income Overview

Median Income	\$50,684
Per Capita Income	\$31,856
Percent Impoverished	15.9%

— Homes

Total Housing Units	272,481
Median Year Built	0
Median Value	\$395,200

+ Household Types

+ Home Tenure

Benefits are based on USDA Forest Service research and are meant for guidance only. Visit www.itreetools.org to learn more.

+ Read the fine print.

i-Tree Design

Estimate tree & ground cover for a large project.

- A free web tool: design.itreetools.org
- Just input location, species, tree size, and condition
- Calculates greenhouse gas mitigation, air quality improvements, and stormwater interception.

4 simple steps in minutes:

1. 'Draw' a building footprint on a Google Map
2. Virtually "plant" or place an existing or proposed tree location
3. Select tree species and size
4. Repeat or click Report button for your results!

i-Tree Design v6.0

22 South Park Street, Oconomowoc, WI 53066, USA

Start Over Save Progress About

Get started with these easy steps:

1. Draw Structures
2. Place Trees

Describe your tree:

- Tree species: Basswood, American
- Tree diameter: 24 Inches or circumference: 75.4
- Tree condition: Good
- Tree exposure to sunlight: Full sun

Tree benefit zones:

- The colored zones surrounding the structure, which appear as you describe your tree, illustrate the relative monetary value of energy savings that the tree would provide in each zone.
- Hover over each zone to see that energy benefit information displayed below the map.

To place a tree:

- Drag this icon to the location on the map where you would like to place your tree.
- Repeat to place additional trees.
- Hover over any tree you have placed on the map to display its benefits.

Model the tree(s) future crown growth over time:

Model Crown Growth

Map data ©2014 Google Imagery ©2014 U.S. Geological Survey Terms of Use Report a map error

Lat: 43.11396 Bearing: 10.7
 Lng: -88.50984 Distance: 19.8m (64.9ft)

Tree: Basswood, American (24 Inches)
 Energy Savings: \$0.00 kWh: 0.0 Therm: 0.0
 Total Savings: \$73.68