

i-Tree Design



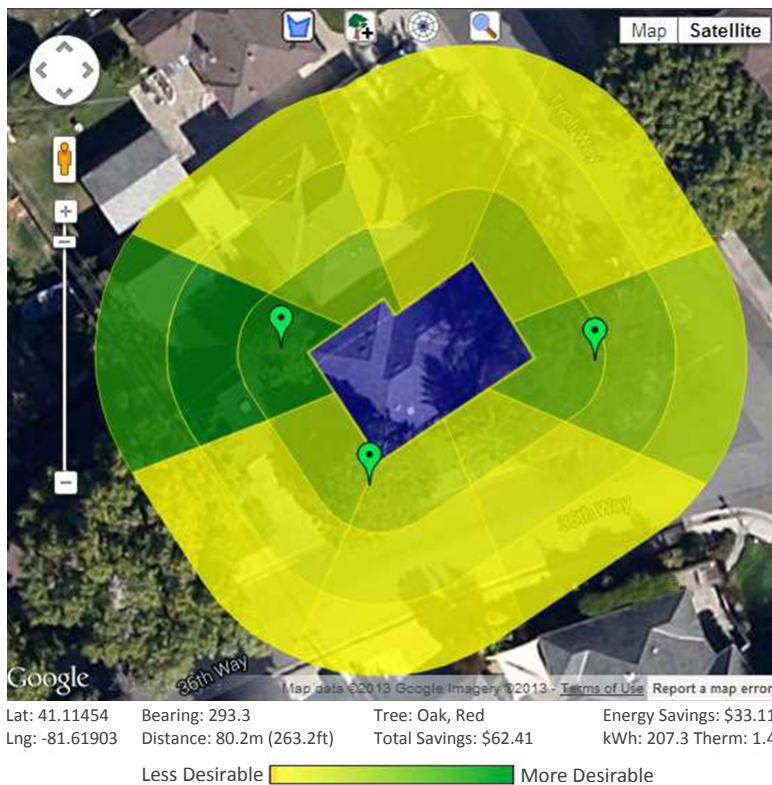
What is i-Tree Design?

i-Tree Design is a free, web-based tool that allows anyone to make a simple estimation of the benefits individual trees provide. With inputs of location, species, tree size and condition, users receive an understanding of tree benefits related to greenhouse gas mitigation, air quality improvements and storm water interception. With the additional step of drawing a building footprint — and virtually "planting" a tree around it — tree effects on building energy use can be evaluated.

Benefits are estimated cumulatively, for the current year, as well as a user-specified future year. Multiple trees can be added to compare benefits or to provide a full accounting of a property's trees. This tool is intended as a simple and accessible starting point for understanding individual trees' value to the community or local landowner.

What is needed to use i-Tree Design?

i-Tree Design is a free online tool located at: www.itreetools.org/design



i-Tree Design allows users to better understand optimal placement of trees to maximize energy benefits.

How do you use Design?

You can get started with four easy steps:

1. Start by typing in a street address.
2. Draw the outline of a house or any building of interest.
3. Select a tree and place it on the map (repeat for more trees).
4. Estimate current & future tree benefits.

i-Tree Design projects can be a simple assessment of a single tree or more complex assessments of multiple trees, buildings and their interactions



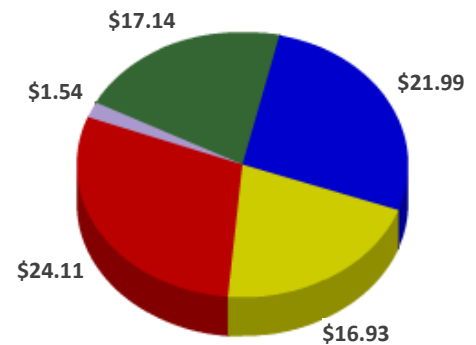
i-Tree Design



What results does i-Tree Design generate?

- Breakdown of the annual benefits of each tree.
- Projection of tree growth & benefits into the future.
- Gallons of storm water intercepted.
- Analysis of electricity and heating energy use.
- Air quality improvements.
- Carbon sequestered and avoided.
- Combined benefits for all trees on a parcel.

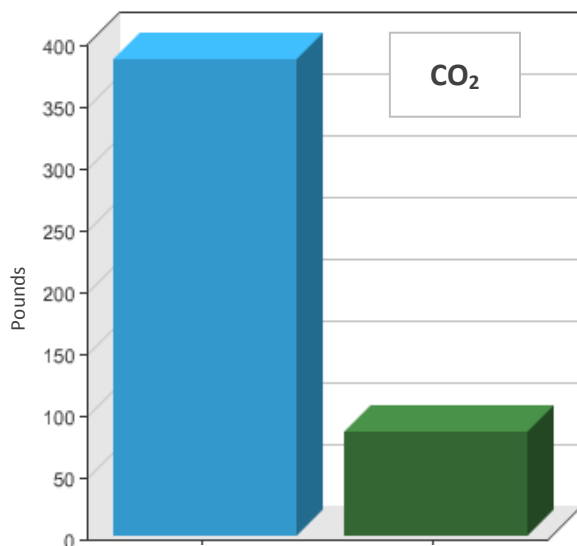
- Stormwater
- Air Quality
- CO₂
- Winter Savings
- Summer Savings



Breakdown of annual tree benefits.

What are some potential uses of i-Tree Design?

- Estimate the benefits of the existing trees on a property.
- Estimate the benefits of planting new trees on a property.
- Estimate the benefits lost when a tree is removed.
- Evaluate different species or planting designs.
- Create an i-Tree Design website link to promote trees.



Annual atmospheric carbon dioxide (CO₂) reduction.

Who is using i-Tree Design?

- Homeowners
- Landscape architects
- Schools
- Tree advocacy organizations
- Nurseries & landscape designers
- Utility companies

Give it a try today!

www.itreetools.org/design

