

i-Tree for funding opportunities

i-Tree Eco for Monitoring, Forecasting, and Strategic Management

Jason Henning Krista Heinlin Phillip Rodbell Dave Bloniarz Jay Heppler Scott Maco

Plan for today

- Intro to i-Tree Eco
- The Philadelphia Story
- 3 example ways to employ i-Tree Eco
 - 1. i-Tree Eco can be easy
 - 2. Small and targeted
 - 3. Expand your view
- Q/A





Milwaukee's Trees Help Us Breathe Easier i-Tree

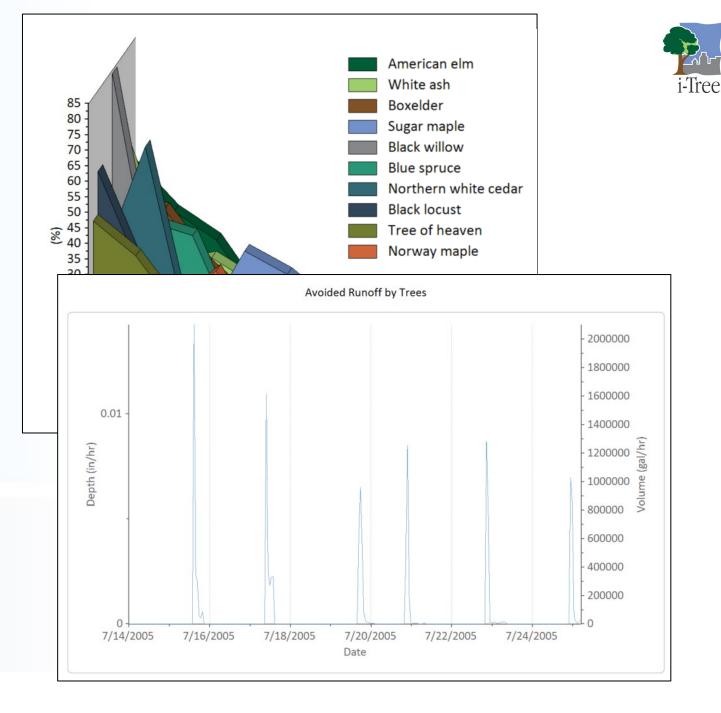
Think about it...



i-Tree Eco

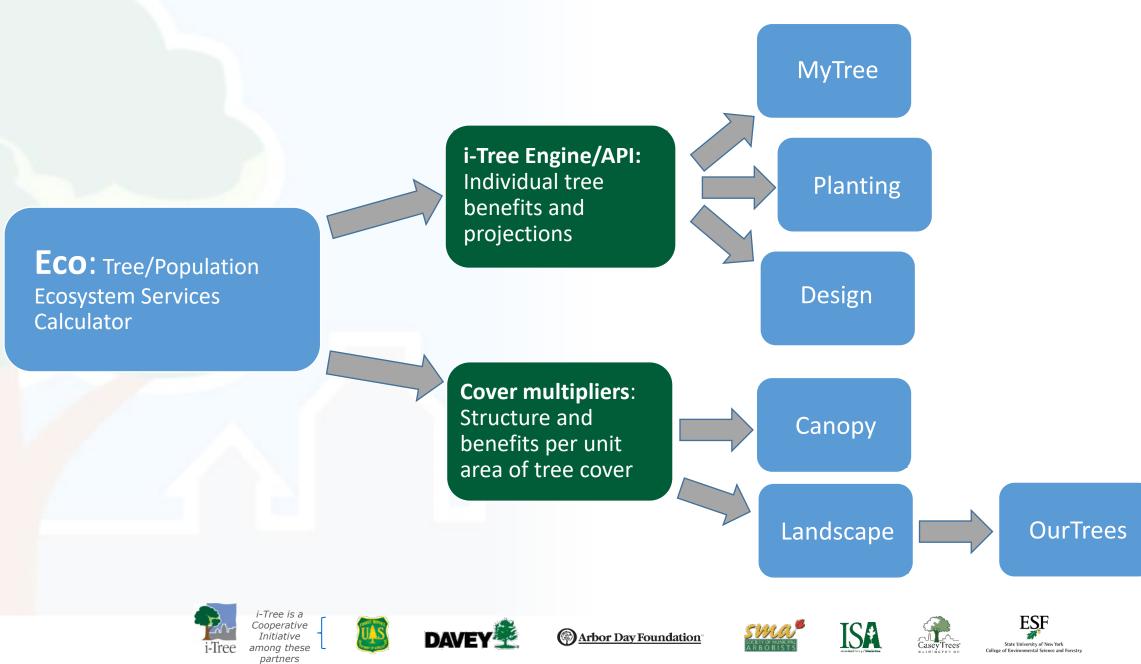
Convert inventory data (sample or census) to a wealth of tree ecosystem service estimates.

- Educate
- Advocate
- Manage



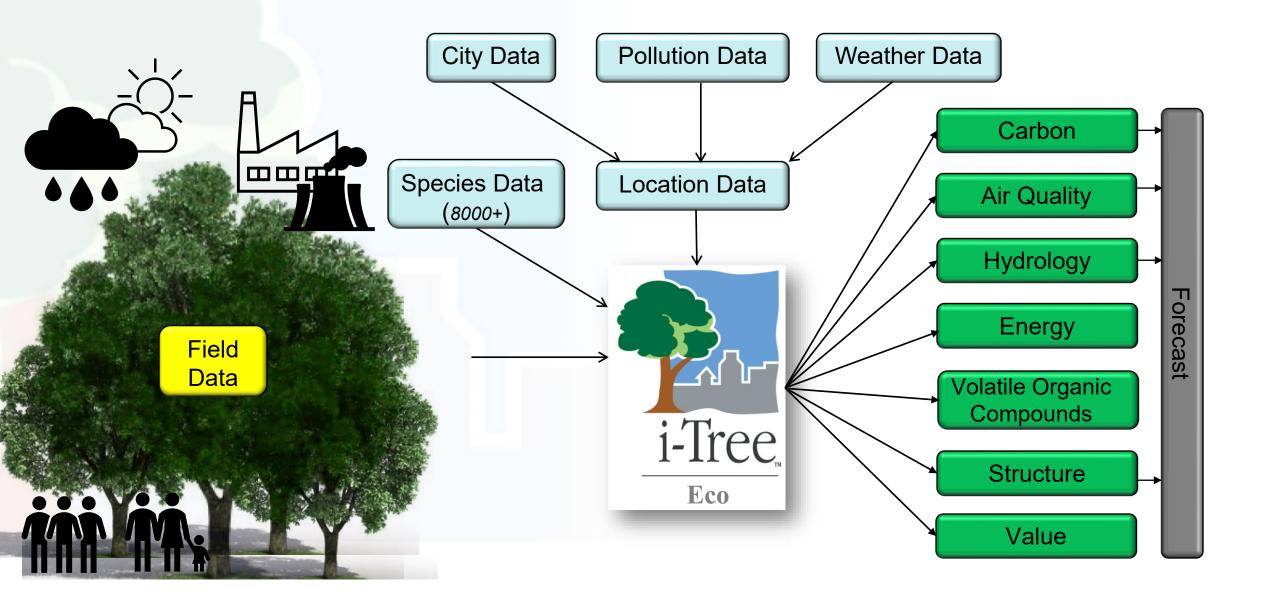
i-Tree Tool Relationships





i-Tree model basics: Inventory data tree benefits?





The i-Tree Eco Framework

Structure

- Summary of field measurements
- Leaf area
- Condition
- Species distribution
- Diameter distribution

Function

- <u>Air quality improvement</u>
- <u>Energy effects</u>
- <u>Carbon storage &</u> <u>sequestration</u>
- <u>Hydrology effects</u>
- Shade ultraviolet effects (UV)
- Foodscape characteristics *limited species info*
- Wildlife suitability avian focus
- Volatile organic compound VOC
- Leaf nutrients

Value

- Monetary value
- Equivalent values
- Health outcomes
- Cost Benefit analysis
- Summaries for management



Eligible funding activities



- Foster individuals, groups, and organizations in the communities served to become engaged participants in urban forest planning and management, especially those in disadvantaged communities that do not have adequate resources or are underrepresented.
- Protect, enhance, and expand equitable urban tree canopy cover to maximize community access to human health, social, ecological, and economic benefits particularly in disadvantaged and nature-deprived communities experiencing low tree canopy, extreme heat, frequent flooding, and poor access to parks and nature.
- Encourage long-term urban forest planning, assessment, and management.
- Encourage proactive and systematic maintenance and monitoring of urban trees to improve forest health; assess risk to forest pests, disease, and adverse climate impacts; and formulate adaptive management strategies to improve forest resilience.
- Advance the use of tree and forest inventories, monitoring, and assessment tools in priority areas.
- Improve preparation for severe storms and the recovery of damaged or deteriorated landscapes to more healthy and resilient conditions.
- Protect and enhance watersheds in urban and developing areas with a focus on conserving and managing forest patches, and green stormwater infrastructure.
- Support the creation and maintenance of green jobs and economic opportunities for planning and sustainably maintaining trees and forests, and producing and using urban forest products.
- Address exotic invasive pest species that adversely impact urban forests.
- Work across jurisdictional boundaries, leveraging ideas and resources to increase capacity to provide equitable access to benefits across the larger landscape and at a greater geographic scale.
- Aid in planning, goal setting, and skill sharing with other professions such as urban planners, engineers, and public health officials.

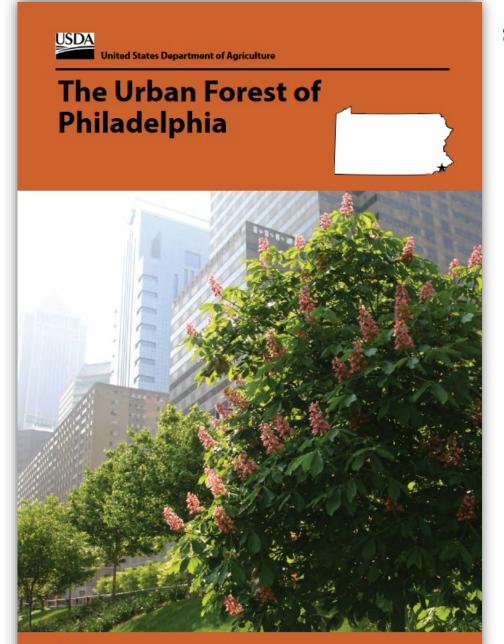
https://www.fs.usda.gov/managing-land/urban-forests

100% fundable activities in Climate and Economic Justice focus communities

Eligible Activities

i-Tree Eco: The Philly Story

121 21²²22²⁴5014 192 14 15 16 10 5015 5016 19 A11 156-





Northern Research Station

November 2016

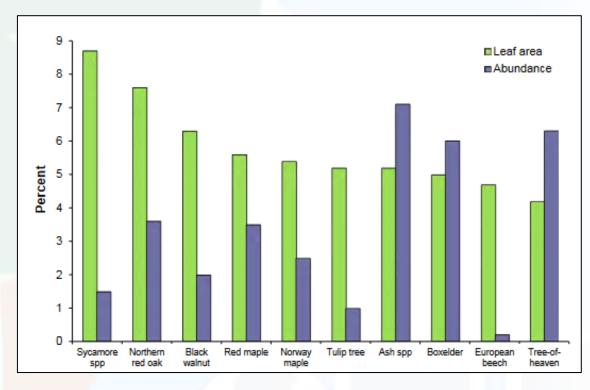
Resource Bulletin

NRS-106

i-Tree

i-Tree Eco: Citywide results





Feature	Estimate
Number of trees*	2,918,000
Tree cover	20% ^b
Most dominant species by:	
Number of trees	spicebush, black cherry, ash species, tree-of-heaven, boxelder
Leaf area	sycamore species, northern red oak, black walnut, red maple, Norway maple
Trees 1 to 6 inches d.b.h.	62.2%
Air temperature reduction ^c	0.3 °F
Pollution removal	513 tons/year (\$19.0 million/year)
VOC emissions	228 tons/year
Carbon storage	702,000 tons (\$50.0 million)
Carbon sequestration	27,000 tons/year (\$1.9 million/year)
Value of reduced building energy use	\$6.9 million/year
Value of reduced carbon emissions	\$764,000/year
Compensatory value ^d	\$1.7 billion
Rainfall interception	81.0 million cubic feet

i-Tree Eco: Power of stratification



City owned parkland is **9%** of the city

Trees on city owned parkland account for **40%** of carbon storage and sequestration

Feature	Estimate
Number of trees	1,100,000
Tree Cover	64%
Carbon Storage	273,000 tons (\$19.4 million)
Pollution Removal	179 tons/yr (\$6.6 million/yr)

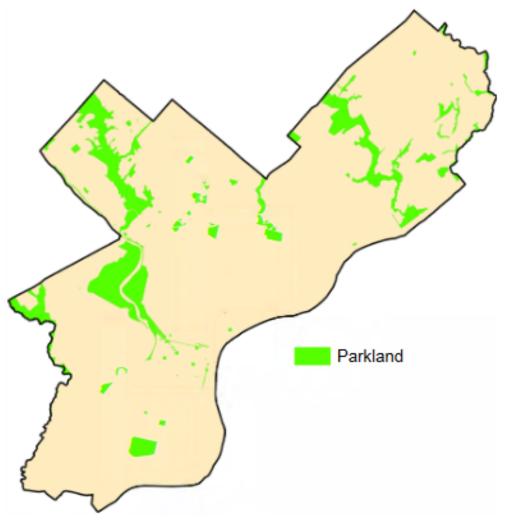
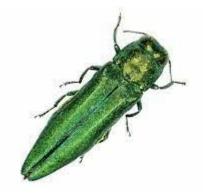


Figure 1.—Philadelphia city boundaries and designated parkland areas, 2012.

i-Tree Eco Example: Large project with targeted results



Ash Trees: City stands to lose 7.1% of its forest and millions in benefits to emerald ash borer



Parameter	Estimate	Units	% of Total City	Species Group Rank
Population	206,996	number	7.1	3
Density	2.3	trees/acre		3
Carbon stored	35,742	tons	5.1	7
Carbon sequestered	1,025	tons/year	3.8	11
Net carbon sequestered	935	tons/year	4.0	10
Leaf area	4,818	acres	5.2	7
Leaf biomass	1,936	tons	6.3	3
Trees, diameter 1-3 in.	111,777	number	54.0^{a}	2
Trees, diameter >18 in.	10,557	number	5.1 ^a	12

^a Percent of all ash trees

From inventory to strategic planning

Par

2030 CANOPY PROJECTION

management unit	2018 canopy cover %	2030 canopy cover target %	# trees to reach canopy 2030 target	co	limated mplete st/tree	_	ost to reach 2030 target
Street Trees	10%	17%	142,241	\$	900	\$	128,017,000
Residential Yards	19%	23%	136,162	\$	100	\$	13,616,000
Commercial Industrial	10%	17%	134,251	\$	500	\$	67,125,000
Campuses & Schools	17%	21%	21,675	\$	800	\$	17,340,000
City Facilities	11%	18%	30,863	\$	800	\$	24,690,000
Public Facilities	10%	17%	37,820	\$	800	\$	30,256,000
			tree plantin	ig cos	t subtotal	\$	281,044,000

total cost to reach 2030 target	\$ 246,142,000
private development contribution*	\$ (34,902,000)

Calculated benefits

400 premature deaths avoided / year based on the combined health impacts of a tree canopy cover of 30% in Philadelphia.

1,000 full time jobs over the course of 30 years.

\$20 million / year in combined environmental benefits including reduced air pollution, carbon sequestration, reduction in residential energy consumption, and stormwater management.

\$50 million / year in captured value from reduced robbery and theft based on a projected 12% reduction in crime associated with increased tree canopy cover.

+

Philly Tree Plan

Growing Our Urban Forest

This 30-year investment in trees could have the following benefits:

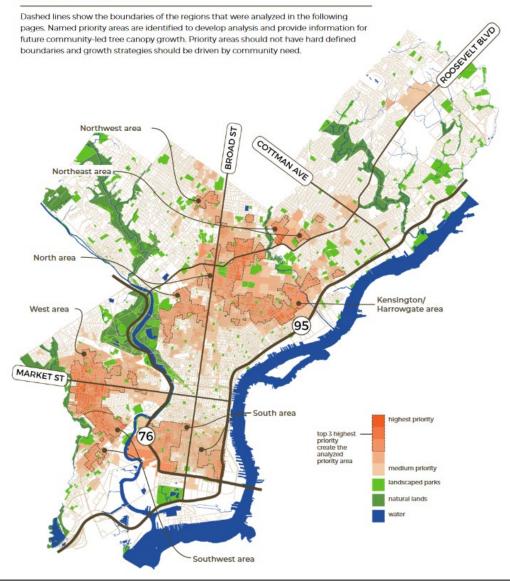
400 + 1,000 premature deaths avoided per year

\$20 million per year in combined environmental benefits + 12% reduction in crime

Impactful and realistic goals



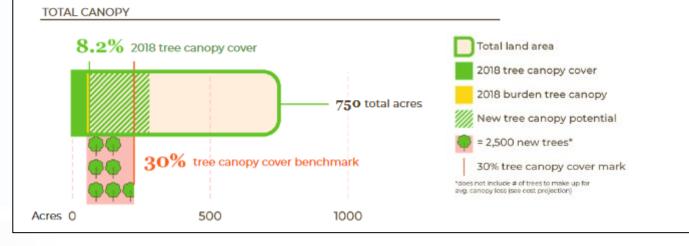
PRIORITY ANALYSIS AREAS



Priority area analysis - SOUTHWEST

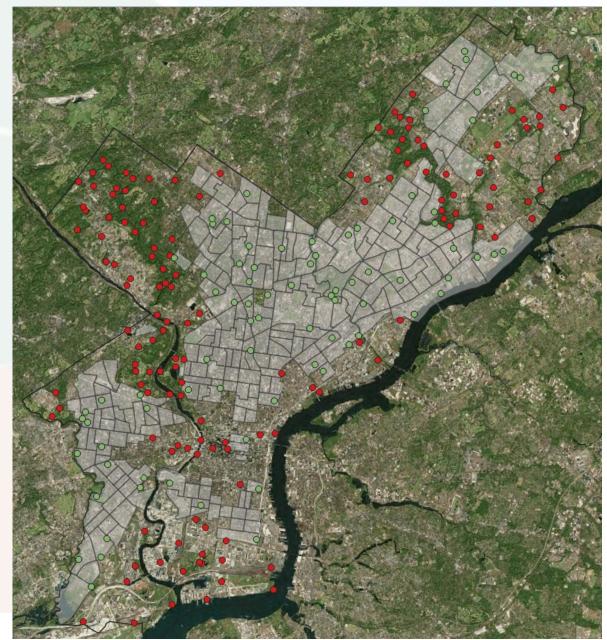
This area is characterized by two- or three-story row homes, commercial corridors with surface parking, and large industrial areas.

To achieve the 30% tree canopy goal strategies must be identified for new tree planting along the streets, in residential yards, and in collaboration with landlords and other commercial or industrial land owners. Opportunities for green corridors that connect the neighborhood to Cobbs Creek Park, Bartram's Garden or other green spaces should be considered.



Evaluating relative to Climate and Economic Justice



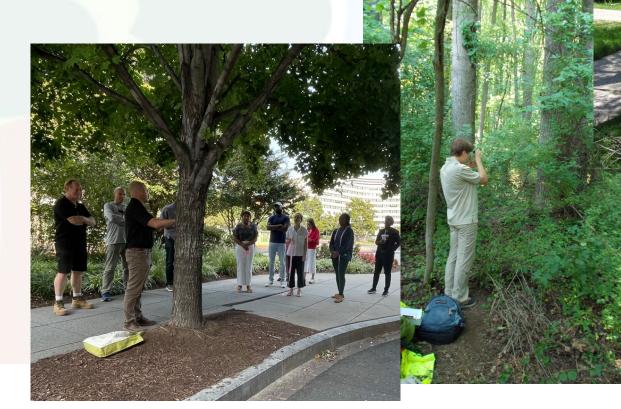


		<u> </u>
	Non-CEJ	CEJ
Area	58,000 ac	32,600 ac
Trees	88%	12%
Tree per acre	86	21
Carbon	86 tons/ac (96%)	6 tons/ac (4%)
Air pollution	\$39.9 million (83%)	\$8.15 million (17%)
Energy	\$1.71 million (38%)	\$2.83 million (62%)

- Non-CEJ has 3 times the species richness
- Non-CEJ has 3.5 times the leaf area per acre
- Trees decrease UV radiation by 45% in non-CEJ, only 16% in CEJ areas
- CEJ 5 most important species Boxelder, <u>Tree</u> of heaven, red maple, arborvitae, <u>mulberry</u>

There is more than one way to i-Tree Eco

- 1. i-Tree Eco can be easy
- 2. Small and targeted
- 3. Expand your view ...and many more



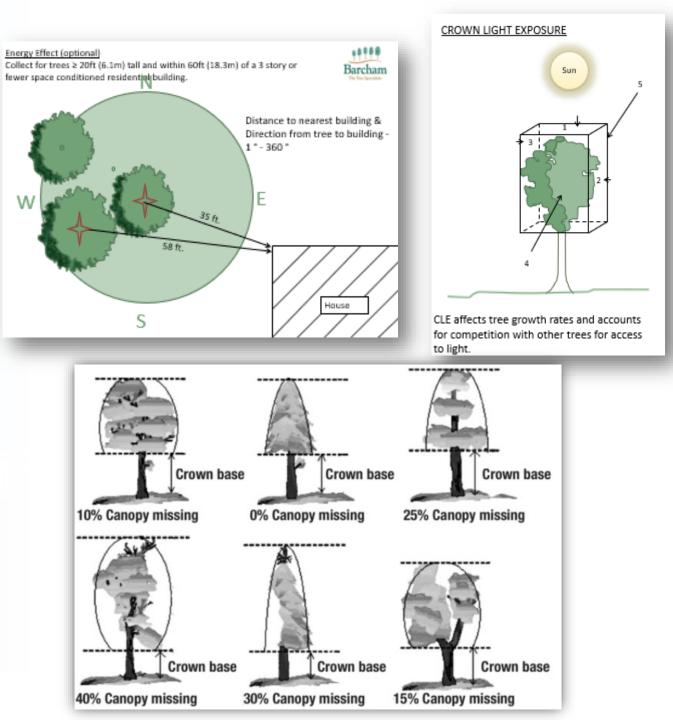
Eco flexible tree data variables

Minimum Required Tree Data

- 1. Tree species
- 2. Diameter at breast height (DBH)

Optional but Recommended Tree Data

- 3. Total tree height
- 4. Height to live top
- 5. Height to crown base
- 6. Crown width (N-S)
- 7. Crown width (E-W)
- 8. % Crown missing
- 9. % dieback (condition)
- 10. Crown light exposure (CLE)
- 11. Land use



From field data to results



Understanding i-Tree: 2021 Summary of Programs and Methods

David J. Nowak



Data

Tree

Plot Data

Page 22 https://www.fs.usda.gov/research/treesearch/63636 Table 2.—Summary of which directly field-measured characteristics are used to estimate derived variables and ecosystem services. D= directly used; I= indirectly used; C= conditionally used.

	DERIV VARIA					EC	OSYS	TEM S	ERVIC	ES			
DIRECT MEASURES	Leaf Area	Leaf Biomass	Carbon Storage	Gross Carbon Sequestration	Net Carbon Sequestration	Energy Effects	Air Pollution Removal	Avoided Runoff	Transpiration	VOC Emissions	Compensatory Value	Wildlife Suitability	UV Effects
Species	D	D	D	D	D	D	I	1	T	D	D		
Diameter at breast height (d.b.h.)			D	D	D						D	D	
Total height	D	D	С	C	C	D	I	I.	I	I.		D	
Crown base height	D	D	С				1	1	1	1			
Crown width	D	D	С				I.	I.	I.	I.			
Crown light exposure			С	D	D								
Percent crown missing	D	D	С	C	С	D	I.	I.	I	I.			
Crown health (condition/ dieback)				D	D						D	D	
Field land use				D							D	D	
Distance to building						D							
Direction to building						D							
Percent tree cover						D	D	D				D	D
Percent shrub cover							D					D	
Percent building cover						D							
Ground cover composition							1					D	

Sample or complete inventory

Sample plots

- Regional or watershed
- County
- City
- Where measuring every tree is impractical

Complete inventory

- Residential properties
- Neighborhoods/blocks
- Street tree inventory
- Parks
- Campuses
- Existing data





Example 1: i-Tree Eco can be easy



Mobile data entry



https://bit.ly/3KMHVSr

Back Tree 1	Details	Save 👂
	Dead Tree?	
Height (ft)	55	
Crown Base Height (ft)	15	
Crown Top Height (ft)	55	
Crown NS Width (ft)	25	
Crown EW Width (ft)	19	
Crown Light Exposure	4	O
Crown Percent Missing	13	0
Crown Dieback	13	O
Percent Impervious	0	0
Percent Shrub	8	0

			Lake Forest Pa	rk:City (201	10) - i-Tree Eco			>	<
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k w	ith Plots	Trees CSV	/ Enable						
bile			Editing						
	Inven	tory Data Expo	irt .						
-									-
Da	ata > In	ventory Da	ita > Plots						
	ID	Strata	Address			Date	Crew	Contact Info	
	1	Large Residenti	beach front dr.			8/25/2010	Team 1_M	ike	
	2	Large Residenti	lake washington				Team 1_M		
	3	Large Residenti	lake washington			8/25/2010) Team 1_Mi	ike	1
	4	Large Residenti	18418 51st pl ne) Team 1_Mi		1
>	5	Large Residenti	vacant LFP prope	,			Team 1_Mi	ike	
	6	Large Residenti		r district vacant lot	t located at 19520 47th ave. ne.	9/11/2010			-
	7	Large Residenti	3321 ne 202rd.	-		9/22/2010			-
	8 9	Large Residenti	west side of acaci Acacia Cemetery	a cem		8/23/2010	-		-
	9	Large Residenti Large Residenti		wasive himalayan t	black hem/	9/18/2010			
	11	Large Residenti		district 47th ave ne		9/19/2010			-
	12	Small Residenti	15327 beach driv		*	10/14/2010			
	13	Small Residenti	19017 largo pl			10/1/2010)		
	14	Large Residenti	5105 ne 180th st			8/17/2010	Team 1_M	ike	
	15	Large Residenti	3047 ne 180th st.			10/6/2010)		
	16	Large Residenti	18404 47th pl ne) Team 1_M	ike	
	17	Large Residenti	19820 47th ave r			10/4/2010			_
	18	Large Residenti	18211 Ballinger W			9/26/2010			-
<	19	Large Residenti	19535 35th ave n	e		8/31/2010	1	2	
-								,	-
Tre	es				-				
	ID								
		Status	Distance (ft)	Direction	Species		id Use	DBH 1 (in)	
	1	Planted	21.00	96	Western redcedar (Thuja plicata)	Vaca	nt	4.2	
	1 2			96			nt		
	1	Planted	21.00	96 104	Western redcedar (Thuja plicata)	Vaca	nt nt	4.2	
	1 2	Planted Planted	21.00	96 104	Western redcedar (Thuja plicata) Western redcedar (Thuja plicata)	Vaca Vaca Vaca	nt nt nt	4.2	
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Example 1: i-Tree Eco can be easy

- Citizen science
- Engagement/Outreach
- Monitoring
- Diverse audiences
- Connect people to their trees





Example 2: Small and targeted



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Introduction

Master Tree Action Plan

Abington Township Montgomery County, PA

Abington's Urban Tree Canopy

A Closer Look

Tree Canopy Cover by Populatio...

Selected Land Uses Summ



80

09

Dogwood.

Tree Size Matters. The heighborhood's large, mature shade trees have the most leaf area and provide the greatest benefits. **While trees 30" or greater in diameter make up only 8% of the population - their canopies make up 27% of the neighborhood's leaf area**. A comparison of the benefits of an 11" diameter Dogwood tree and a 30" diameter Maple tree growing in the neighborhood shows that the Maple provides nearly 8 times the ecosystem benefits as the Dogwood.

To maximize the benefits Abington's tree canopy provides - we should focus our private property efforts on preserving our existing large trees and planting species that will grow to be large shade trees to replace those we have lost or will lose in the future.

https://storymaps.arcgis.com/stories/ed7e547aeaed454ea5dd44c4b1be08c0

"These six trees store 14,291 lbs of carbon and continue to sequester 470 lbs of carbon each year. i-Tree For comparison, the 1,316 small trees between 1-4 inches DBH in this study store a combined total of 16,567 lbs of carbon"

From Corey Bassett, https://www.itreetools.org/documents/352/UPenn_iTreeEcoInventory.pdf

Example 2: Small and Targeted

- Focus on only the trees and places of interest
- Neighborhood, block, park, ...
 inventories
- High development/high turnover
- All the i-Tree Eco results
- Impact policy
- Benchmark
- Monitor

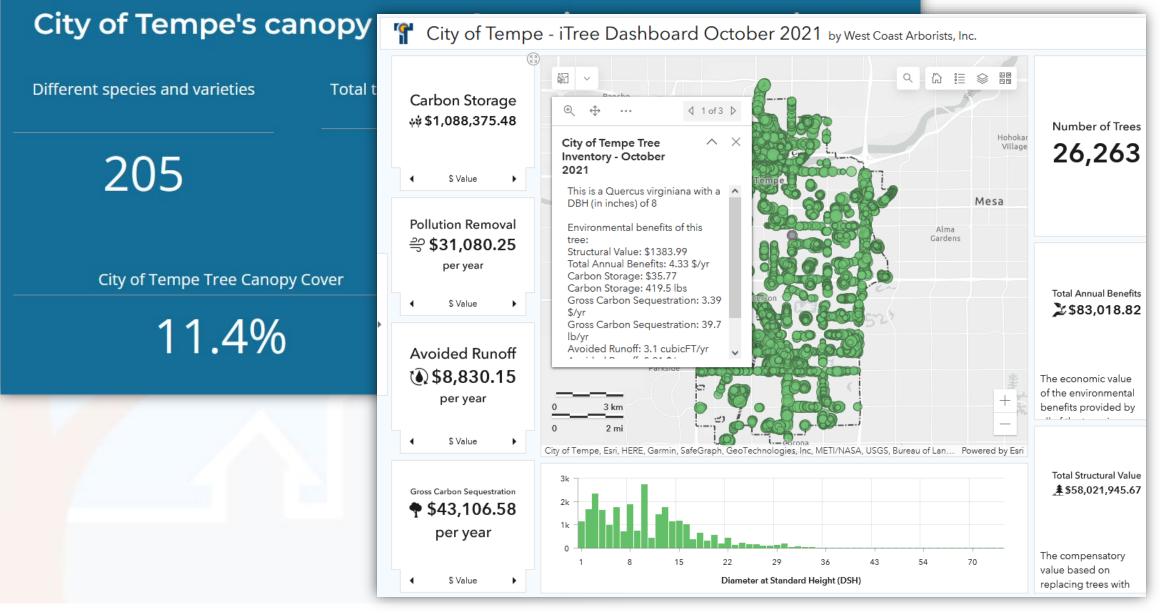
Street Trees & Our Business Districts





Example 3: Expand your view

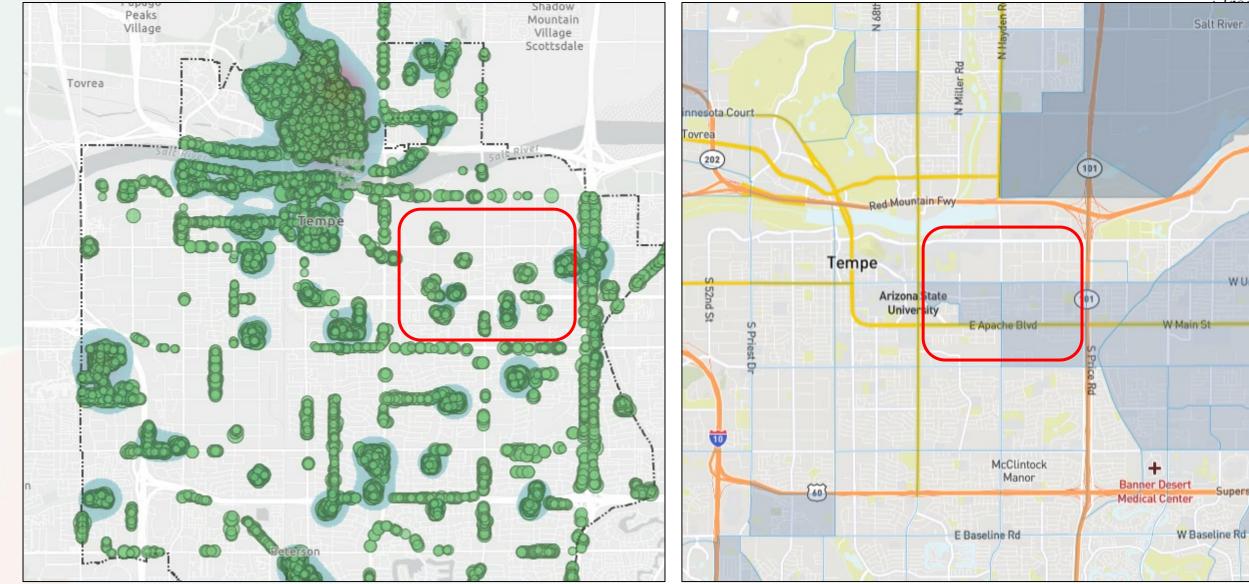




https://tempe-urban-forest-tempegov.hub.arcgis.com/

Example 3: Expand your view





https://screeningtool.geoplatform.gov/en/#3/33.47/-97.5

Planning your i-Tree Eco project

- Timeline
- Cost/budgeting
- Templates
- Learn from others
 - i-Tree Reports
- State Urban
 Forestry
 Coordinators
- Contractors

Project Planning and Management

Documents and resources to help plan and manage an i-Tree Eco project such as examples of notification letters, plot maps, equipment lists and project time lines. Most planning resources were developed and provided as a courtesy by past Eco project managers to help future project managers.

Which i-Tree Tool Should I Use?

• Which i-Tree Tool Should I Use? - A decision making matrix developed by the Urban Forest Assessment Subcommittee of the Urban & Community Forestry Committee of the Northeast-Midwest Alliance of State Foresters with input from the Davey Institute and support from the USDA Forest Service.

Project Creation Guides

- Idaho Treasure Valley Dot Grid Reference Sheet This document provided courtesy of David Stephenson, Idaho Department of Lands Community Forestry Program, provides instructions for using an English dot grid for aiding in determining land use cover percentages. Refer to the Idaho Eco Management Guide above for more details.
- City of Milwaukee Eco Plot Map This is an example of Eco plot maps utilized by the City of Milwaukee.

Project Management

- Idaho Treasure Valley i-Tree Eco Project Management Report This document developed by David Stephenson, Idaho Department of Lands Community Forestry Program, provides suggestions, methods, tips and tools to help future Eco project managers.
- Eco Project Cost Estimation This document, developed by Eric Kuehler from Urban Forestry South, offers a cost estimate for an Eco project. Note - Numerous factors can affect project cost and this is provided only as a general guideline.
- Eco Project Time Estimation This document, developed by Eric Kuehler from Urban Forestry South, provides time estimations for planning and conducting an Eco project.
- Eco Project Time Line This document, developed by Eric Kuehler from Urban Forestry South, is an example of a Eco project time line for a county assessment.

https://www.itreetools.org/support/resources-overview/project-planning-and-management-2



Example 3: Expand your view

- Import your existing data in an hour or less
- Majority of trees are on private property
- Your existing data makes the case for larger projects
- Broader data and more results support better management and future funding

HOW MUCH DO DC'S TREES HELP FILTER STORMWATER?



Each year DC's trees filter 44,274,580 cubic feet of water equating to about \$779 million per year. That is equal to about 500 Olympic size swimming pools.

Not all trees filter water the same way. Larger tree species filter more water than smaller trees do, so even though there may be fewer of them, they put in much more work.





American Elm Trees



Common Crapemyrtle Trees

25 Olympic Swimming Pools

41 Olympic Swimming Pools

i-Tree Eco – Toward strategic management

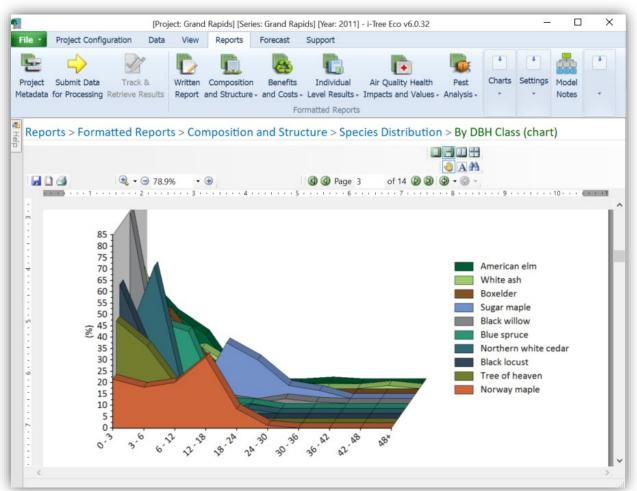
i-Tree

Fundable projects

- Tree Inventories are fundable activities
- Support strategic management
- Make the case for current and future funding and its targeted use

Why i-Tree Eco?

- Science backed
- Wealth of results and uses
- All lands (rural to urban, public parks to private back yards)



Want to learn more?

- Start at the Funding Opportunities page
- i-Tree Academy <u>page</u>
- Video learning <u>page</u>
- Support <u>page</u>
- Office hours 5/8 and 5/10 1:00-2:00 pm ET

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Join us for the i-Tree For Funding Opportunities, two session webinar series. Sessions are on May 3rd and 5th at 1:00 pm eastern US Time. Office hours to follow on May 8th and 10th. You can register on the webinar series webpage or check back for recordings after the live sessions. *All are welcome!*

Our Spring 2023 i-Tree Open Academy! has wrapped up. Check out all session recordings, exercises, and resources on the Academy webpage -*Thanks to all who attended!*

Support

i-Tree helps people understand the benefits that trees provide and our support team is here to help you understand i-Tree. The i-Tree team offers free support in using the tools, understanding the science (and pointing the way to more in-depth articles), plus we provide periodic online training.

Overview of the support we provide. For new users, here is a handy Resource Guide.

Learn to use the i-Tree tools

- Video learning
- Manuals, Guides, and Workbooks
 - Project Planning and Management
- Teaching
- registration, software download and installation steps.

3. Options for installing and running i-Tree on a Mac computer - 4 min. - This video discusses non-supported options such as using Bootcamp or Parallels to run the Windows-based i-Tree software on a Mac computer.

Thanks from the team

Supported by: USDA Forest Service Urban and Community Forestry Program

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Phillip Rodbell Dave Bloniarz Success stories? Questions? Suggestions? <u>info@itreetools.org</u>

