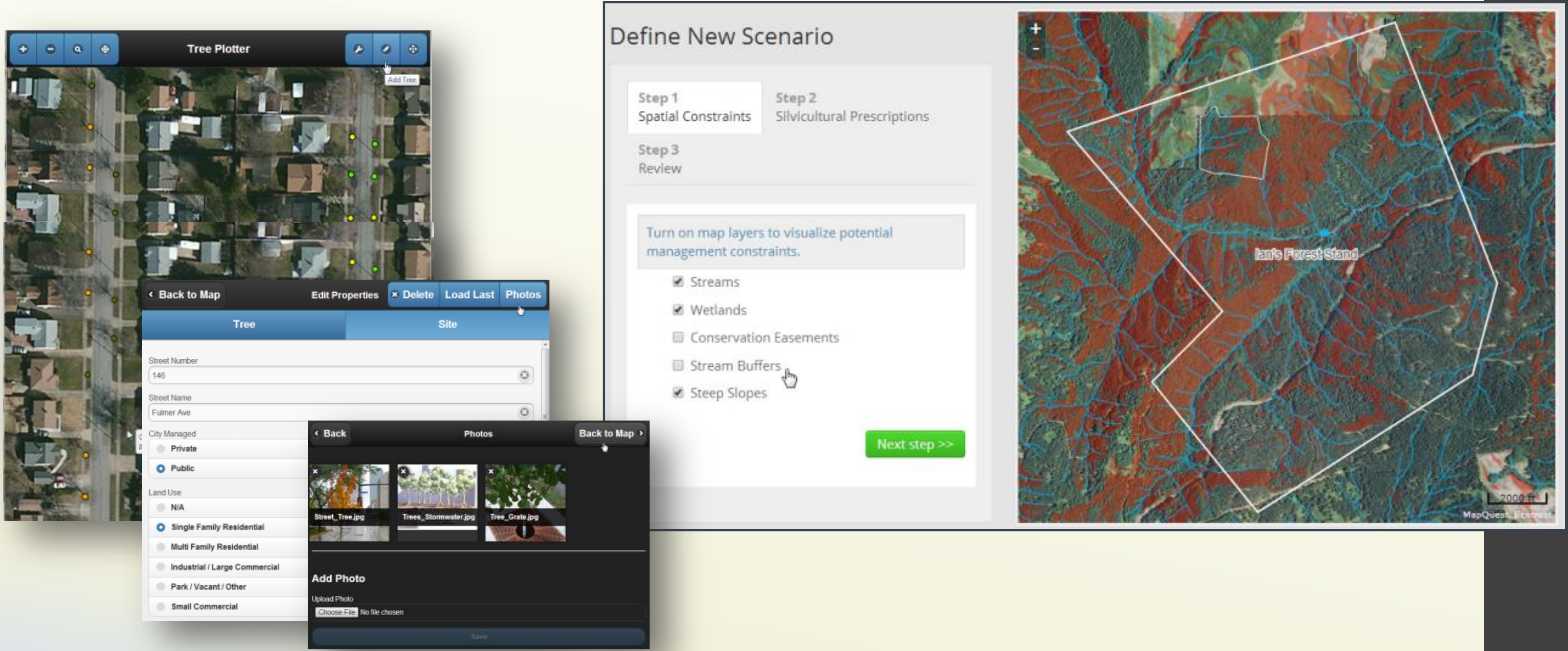
COMPARING COMMUNITY FORESTRY TECHNOLOGIES FOR CITIZEN SCIENCE & CROWD-SOURCING

CUFC11 | OCTOBER 2014


Tree Plotter
Add Tree
Back to Map
Edit Properties
Delete
Load Last
Photos
Tree
Site
Back
Photos
Back to Map
Street_Tree.jpg
Trees_Stormwater.jpg
Tree_Grate.jpg
Add Photo
Upload Photo
Choose File
Save
Ian's Forest Stand
2000 ft
MapQuest, Ecotrust

Street Number: 146

Street Name: Fulmer Ave

City Managed
○ Private
● Public

Land Use
○ N/A
● Single Family Residential
○ Multi Family Residential
○ Industrial / Large Commercial
○ Park / Vacant / Other
○ Small Commercial

No file chosen

Define New Scenario

Step 1
Spatial Constraints

Step 2
Silvicultural Prescriptions

Step 3
Review

Turn on map layers to visualize potential management constraints.

☑ Streams
☑ Wetlands
☐ Conservation Easements
☐ Stream Buffers
☑ Steep Slopes

Next step >>

Presented by:

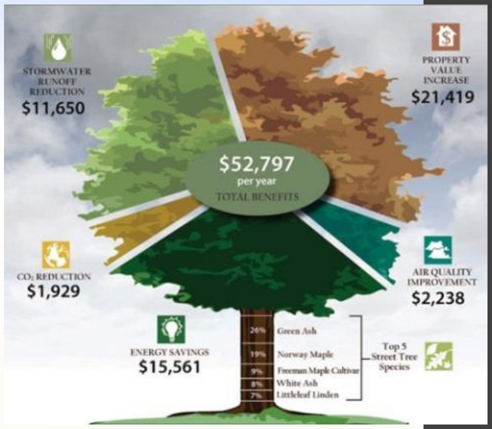
Ian Hanou, plan-it GEO LLC

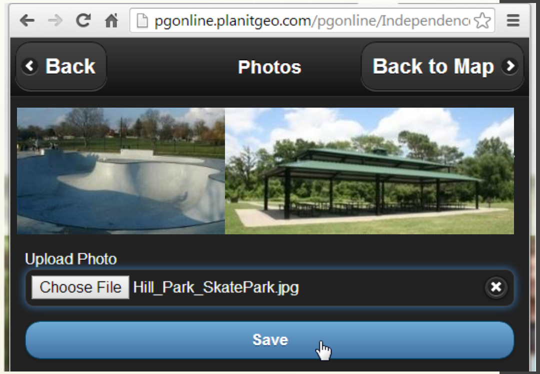
AGENDA

- **Plan-It Geo:** about us
- **Intro:** key terms & what new tools/apps mean to you
- **Tree Tools:** apps, inventory, work orders, outreach
- **Canopy Tools:** landscape-scale tools/apps
- **Recap:** discussion, Q&A

OUR SERVICES & MARKETS

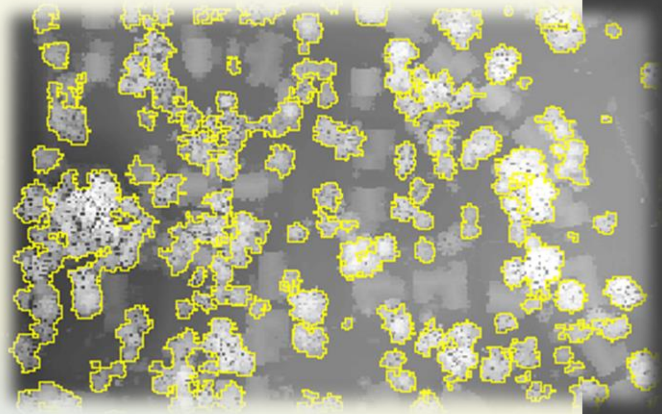
- GIS Analysis and Remote Sensing
- Urban Tree Canopy (UTC) Assessment
- Software Application Development
  - ***Urban Forest Cloud***
  - 20+ software clients | 80+ UF projects
- Tree Inventory | Risk Assessment
- Ecosystem Services Analysis
- Training, Workshops, Spatial Surveys


Credit: WI DNR


pgonline.planitgeo.com/pgonline/Independenc

Upload Photo

Hill_Park_SkatePark.jpg



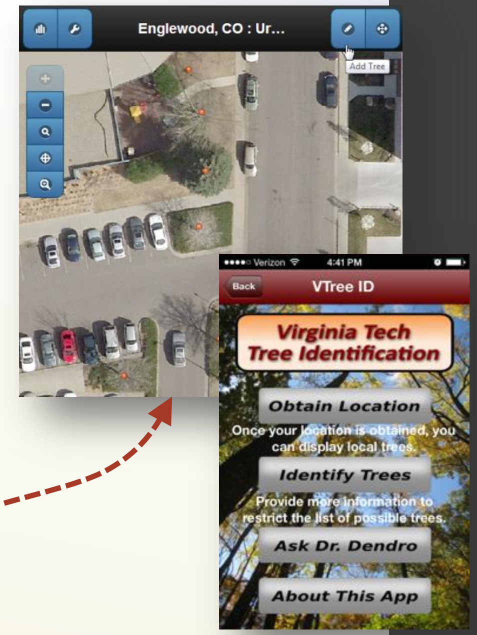
GOALS FOR TODAY …

- Introduce technologies offering efficiencies to enhance urban and community forest management & outreach
- Gain an understanding of the possibilities of crowdsourcing and citizen-science tools
- Discuss uses of these tools/apps

Immeasurable
environmental
benefits

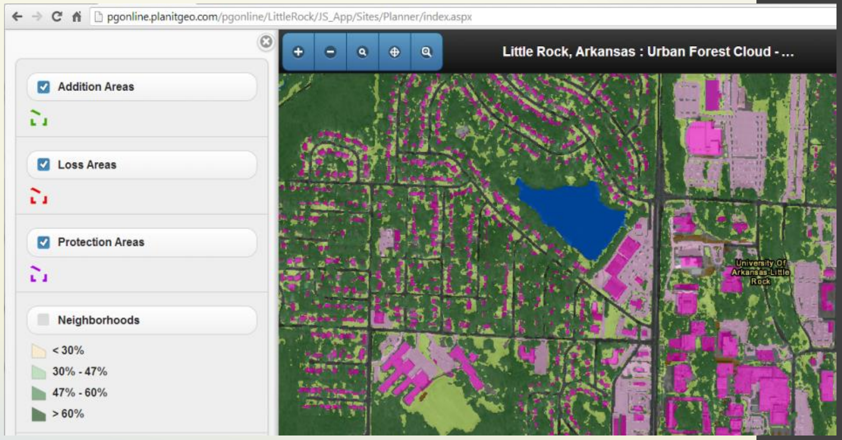
USES OF TECHNOLOGY APPLICATIONS

- Collect data, monitor, site/plan review
  - Mobile, desktop, real-time, dashboards
  - By staff, consultants, and/or volunteers
- Education, Engagement and Awareness
- Scenarios and Visualization
  - Ecosystem services
  - Management/planning
  - Landscape / site-specific scale
- Spatial surveys
  - Stakeholder input
- And many more …


Englewood, CO : Ur...
Add Tree
Verizon
4:41 PM
Back
VTree ID
Virginia Tech
Tree Identification
Obtain Location
Identify Trees
Ask Dr. Dendro
About This App

Once your location is obtained, you can display local trees.

Provide more information to restrict the list of possible trees.


pgonline.planitgeo.com/pgonline/LittleRock/JS_App/Sites/Planner/index.aspx
Little Rock, Arkansas : Urban Forest Cloud - ...
University Of Arkansas-Little Rock

☑ Addition Areas

☑ Loss Areas

☑ Protection Areas

☐ Neighborhoods
- < 30%
- 30% - 47%
- 47% - 60%
- > 60%

WHAT DOES "THE CLOUD" MEAN FOR U&CF?

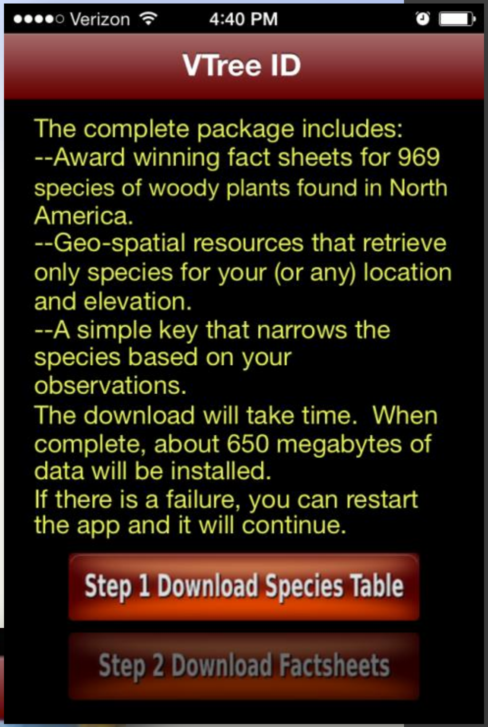
- **Accessibility:** your tree data anytime, anywhere (when online)
- **Data Inputs:** from multiple sources (depts. or citizens)
- **Tell and Share:** your story more readily cost-effectively
- **"Hosted Solutions":** no other GIS/GPS soft-/hardware needed
- **Just Think:** *of the possibilities …*
  - Inter-departmental "feeds" for plan review and permitting
  - Service request "feeds" from the public
  - Real-time quality control checks and Level of Service dashboard
  - Budget preparation support: tell (show!) your story, and your woes
  - Stakeholder input, volunteerism, and citizen science
  - Customer service: show residents what else is on your plate

vTREE (VIRGINIA TECH)

http://dendro.cnre.vt.edu/dendrology/main.htm

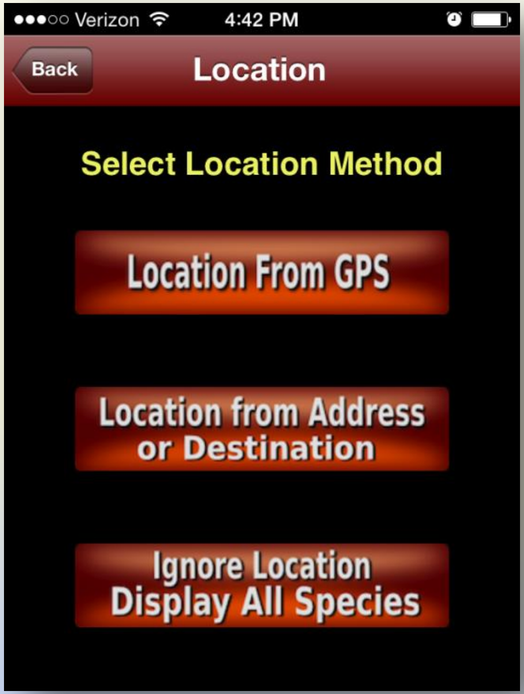
Contact: Dr. Eric Wiseman, pwiseman@vt.edu

- Free native app (iOS and Android)
- Simple workflow
- Identify and learn about nearly 1,000 tree species


●●●●○ Verizon 4:40 PM
VTree ID

The complete package includes:
--Award winning fact sheets for 969 species of woody plants found in North America.
--Geo-spatial resources that retrieve only species for your (or any) location and elevation.
--A simple key that narrows the species based on your observations.
The download will take time. When complete, about 650 megabytes of data will be installed.
If there is a failure, you can restart the app and it will continue.

Step 1 Download Species Table
Step 2 Download Factsheets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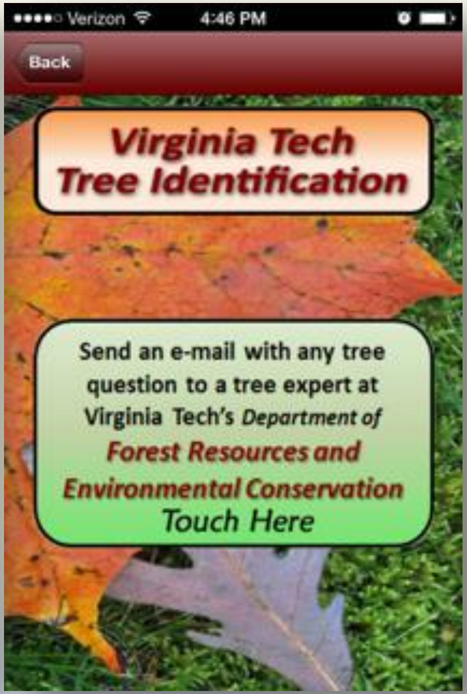
Back
Location
Select Location Method
Location From GPS
Location from Address or Destination
Ignore Location Display All Species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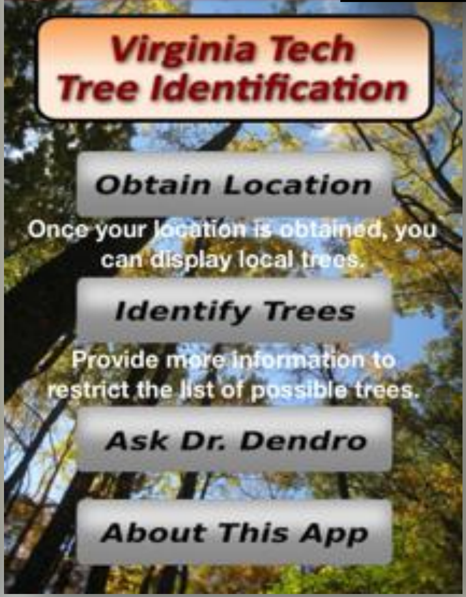
Back
Virginia Tech Tree Identification

Send an e-mail with any tree question to a tree expert at Virginia Tech's Department of Forest Resources and Environmental Conservation

Touch Here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Back
VTree ID
Virginia Tech Tree Identification
Obtain Location

Once your location is obtained, you can display local trees.

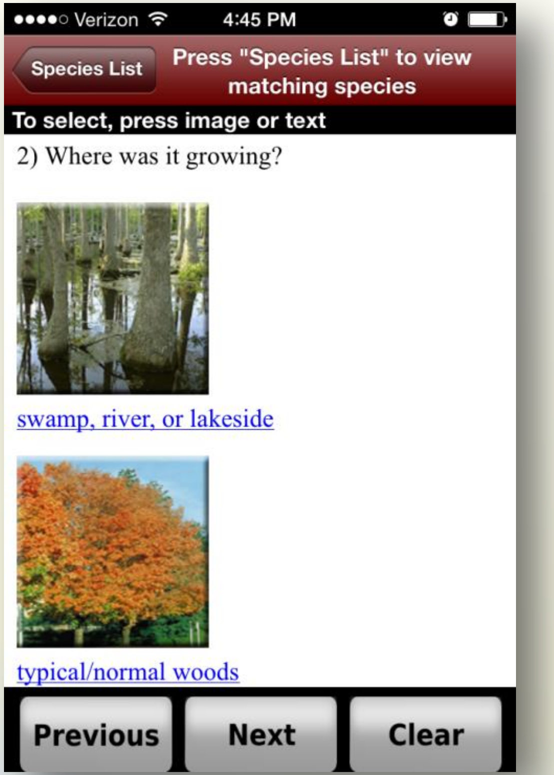
Identify Trees

Provide more information to restrict the list of possible trees.

Ask Dr. Dendro
About This App

vTREE (VIRGINIA TECH)

- Great search function and field key
- Tons of photos, phenology information and more


●●●●○ Verizon
4:45 PM
Species List
Previous
Next
Clear

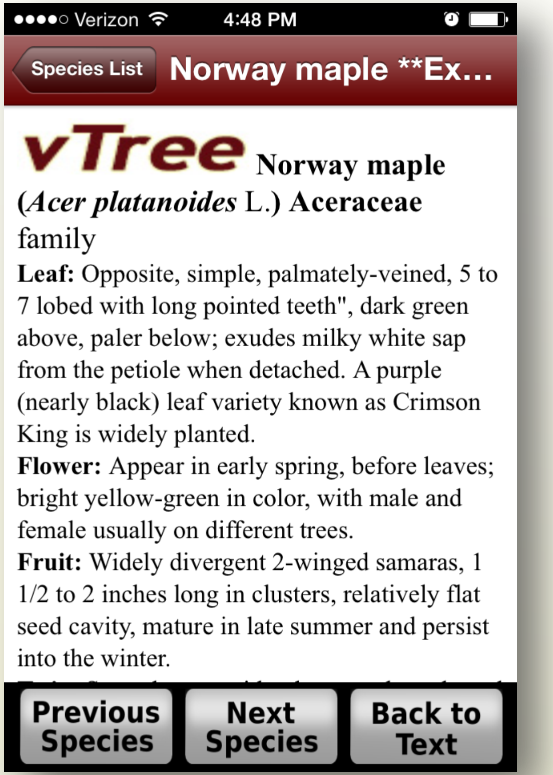
Press "Species List" to view matching species

To select, press image or text

2) Where was it growing?

swamp, river, or lakeside

typical/normal woods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4:48 PM
Species List
vTree
Previous Species
Next Species
Back to Text

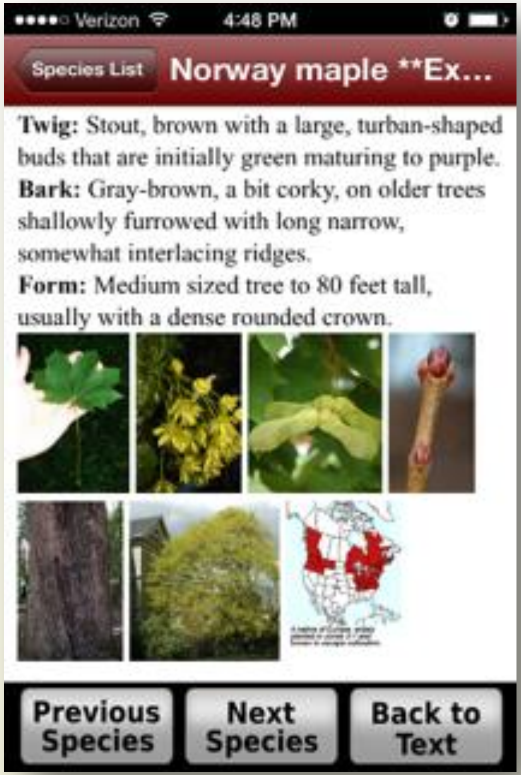
Norway maple **Ex...

Norway maple (*Acer platanoides* L.) Aceraceae family

Leaf: Opposite, simple, palmately-veined, 5 to 7 lobed with long pointed teeth", dark green above, paler below; exudes milky white sap from the petiole when detached. A purple (nearly black) leaf variety known as Crimson King is widely planted.

Flower: Appear in early spring, before leaves; bright yellow-green in color, with male and female usually on different trees.

Fruit: Widely divergent 2-winged samaras, 1 1/2 to 2 inches long in clusters, relatively flat seed cavity, mature in late summer and persist into the winter.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4:48 PM
Species List
Previous Species
Next Species
Back to Text

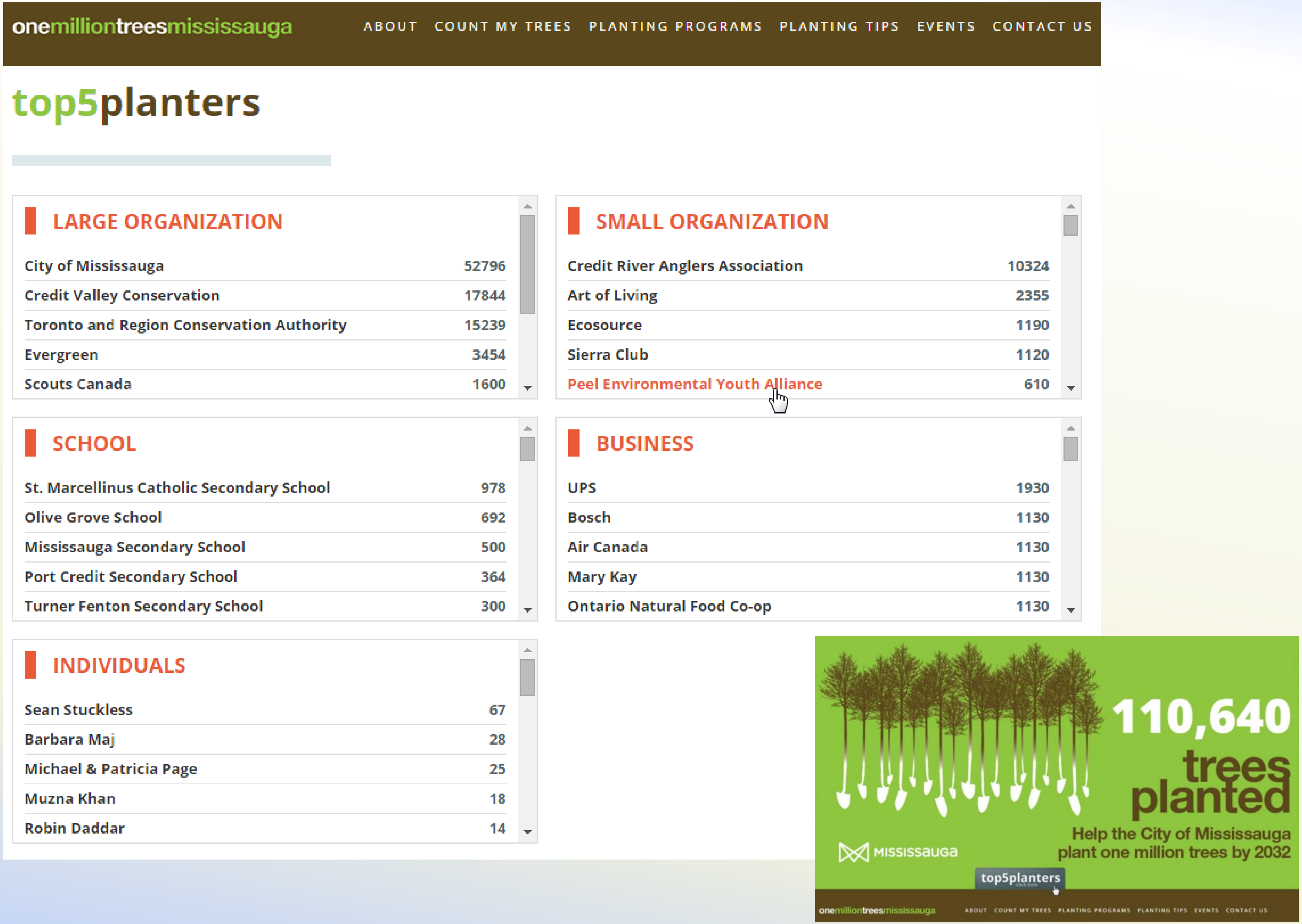
Norway maple **Ex...

Twig: Stout, brown with a large, turban-shaped buds that are initially green maturing to purple.

Bark: Gray-brown, a bit corky, on older trees shallowly furrowed with long narrow, somewhat interlacing ridges.

Form: Medium sized tree to 80 feet tall, usually with a dense rounded crown.

ONE MILLION TREES.CA: MISSISSAUGA, ONTARIO


onemilliontreesmississauga
ABOUT
COUNT MY TREES
PLANTING PROGRAMS
PLANTING TIPS
EVENTS
CONTACT US

top5planters

LARGE ORGANIZATION

City of Mississauga	52796
Credit Valley Conservation	17844
Toronto and Region Conservation Authority	15239
Evergreen	3454
Scouts Canada	1600

SMALL ORGANIZATION

Credit River Anglers Association	10324
Art of Living	2355
Ecosource	1190
Sierra Club	1120
Peel Environmental Youth Alliance	610

SCHOOL

St. Marcellinus Catholic Secondary School	978
Olive Grove School	692
Mississauga Secondary School	500
Port Credit Secondary School	364
Turner Fenton Secondary School	300

BUSINESS

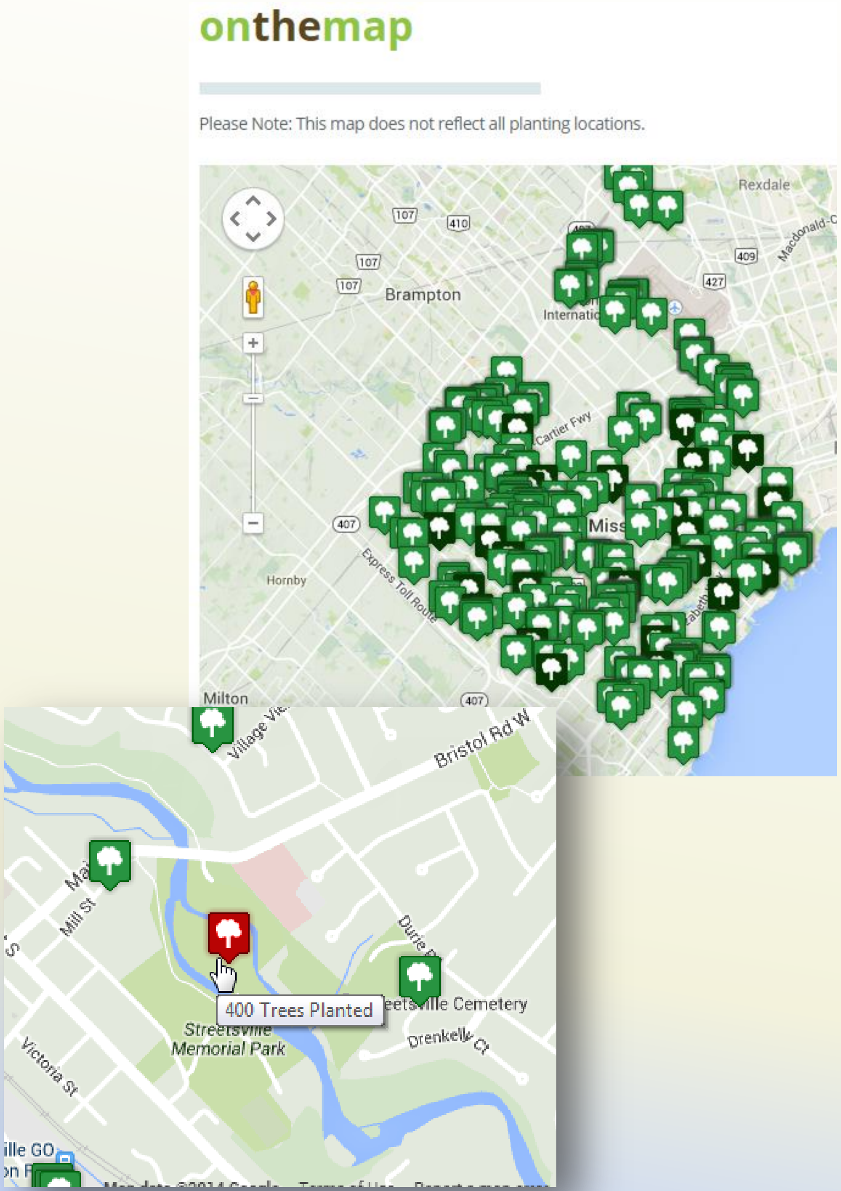
UPS	1930
Bosch	1130
Air Canada	1130
Mary Kay	1130
Ontario Natural Food Co-op	1130

INDIVIDUALS

Sean Stuckless	67
Barbara Maj	28
Michael & Patricia Page	25
Muzna Khan	18
Robin Daddar	14

110,640
trees planted
Help the City of Mississauga plant one million trees by 2032
MISSISSAUGA
top5planters
onemilliontreesmississauga
ABOUT COUNT MY TREES PLANTING PROGRAMS PLANTING TIPS EVENTS CONTACT US

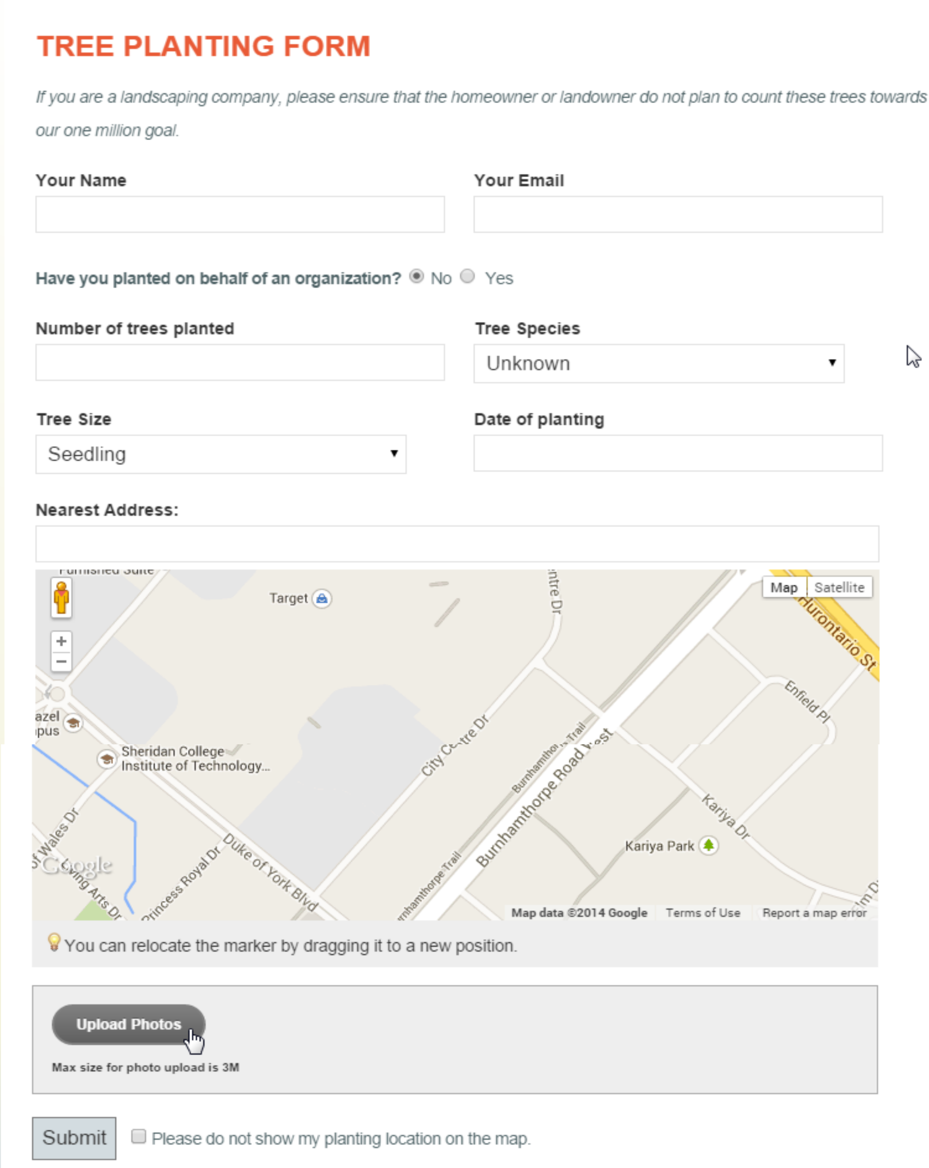
ONE MILLION TREES.CA: MISSISSAUGA, ONTARIO



onthemap

Please Note: This map does not reflect all planting locations.

Rexdale
Brampton
Internatio
Macdonald-C
Cartier Fwy
Miss
Hornby
Express Toll Route
Milton
107
410
409
427
407
Village Vie
Bristol Rd W
Mill St
Victoria St
Durie
400 Trees Planted
Streetsville Cemetery
Streetsville Memorial Park
Drenkelly Ct



TREE PLANTING FORM

If you are a landscaping company, please ensure that the homeowner or landowner do not plan to count these trees towards our one million goal.

Your Name

Your Email

Have you planted on behalf of an organization? ● No ○ Yes

Number of trees planted

Tree Species: Unknown

Tree Size: Seedling

Date of planting

Nearest Address:

Map
Satellite
Target
Sheridan College Institute of Technology...
City Centre Dr
Burnhamthorpe Road West
Hurontario St
Enfield Pl
Kariya Dr
Kariya Park
Duke of York Blvd
Princess Royal Dr
Map data ©2014 Google
Terms of Use
Report a map error

You can relocate the marker by dragging it to a new position.

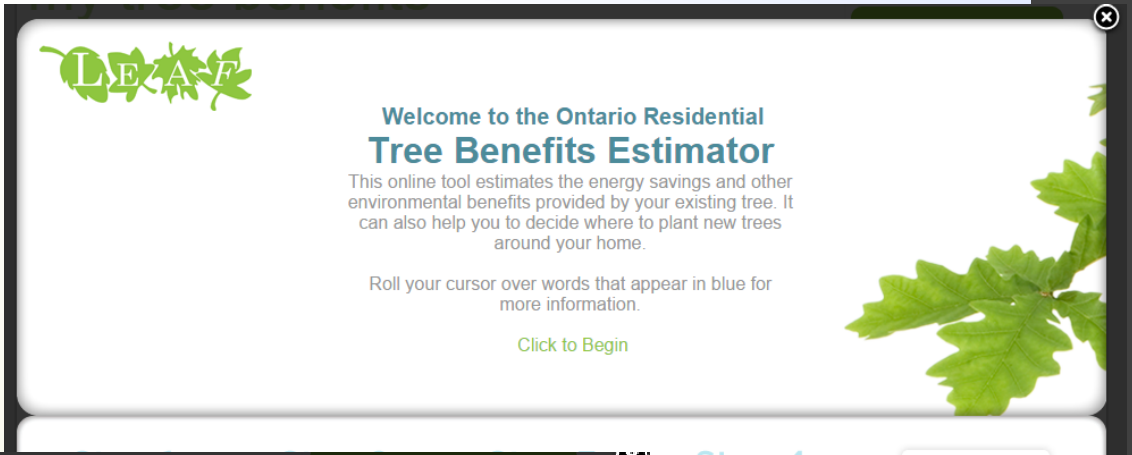
Upload Photos

Max size for photo upload is 3M

Submit ☐ Please do not show my planting location on the map.

ONE MILLION TREES.CA: MISSISSAUGA, ONTARIO

http://www.yourleaf.org/estimator



Welcome to the Ontario Residential

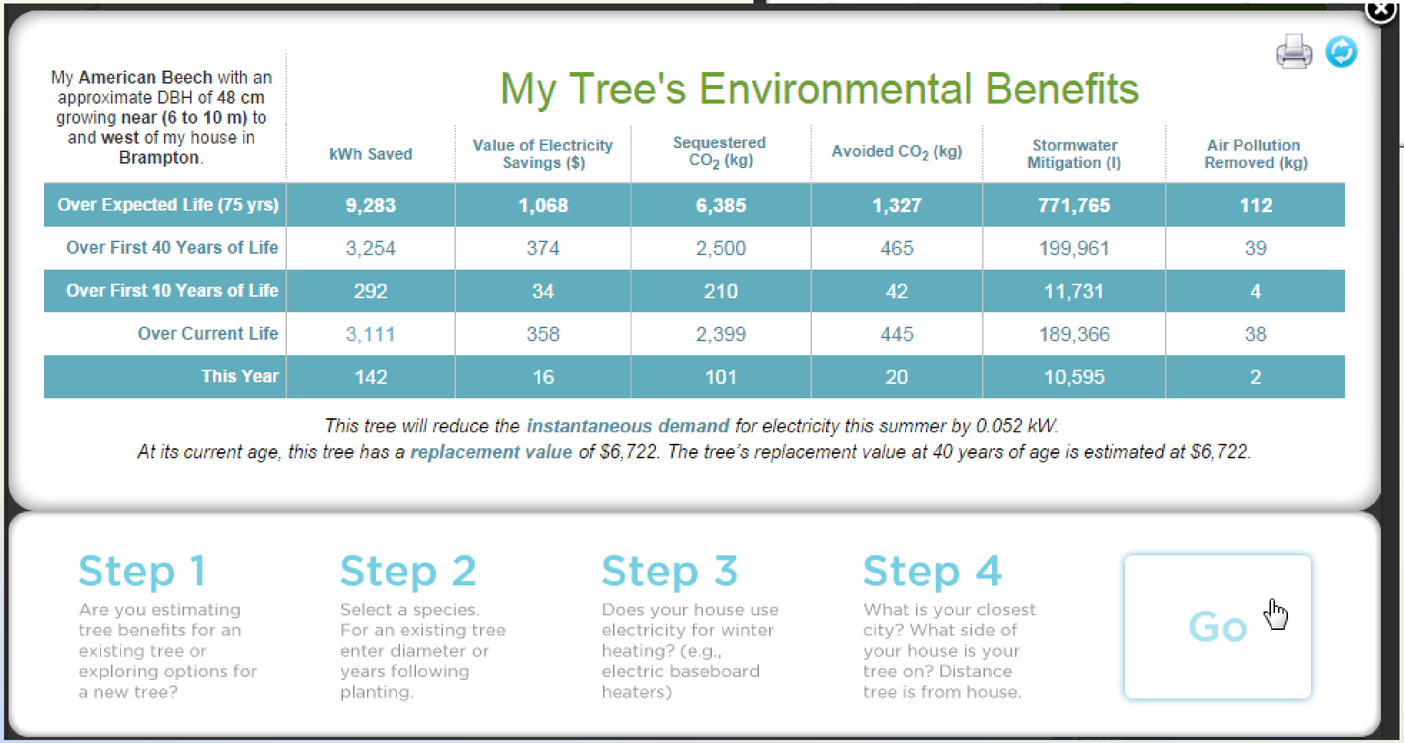
Tree Benefits Estimator

This online tool estimates the energy savings and other environmental benefits provided by your existing tree. It can also help you to decide where to plant new trees around your home.

Roll your cursor over words that appear in blue for more information.

Click to Begin

Step 4
What is your closest city? What side of your house is your tree on? Distance tree is from house.
Go



My Tree's Environmental Benefits

My **American Beech** with an approximate **DBH** of **48 cm** growing **near (6 to 10 m)** to and **west** of my house in **Brampton**.	kWh Saved	Value of Electricity Savings ($)	Sequestered CO_2 (kg)	Avoided CO_2 (kg)	Stormwater Mitigation (l)	Air Pollution Removed (kg)
Over Expected Life (75 yrs)	9,283	1,068	6,385	1,327	771,765	112
Over First 40 Years of Life	3,254	374	2,500	465	199,961	39
Over First 10 Years of Life	292	34	210	42	11,731	4
Over Current Life	3,111	358	2,399	445	189,366	38
This Year	142	16	101	20	10,595	2

This tree will reduce the ***instantaneous demand*** *for electricity this summer by 0.052 kW.*
At its current age, this tree has a ***replacement value*** *of $6,722. The tree's replacement value at 40 years of age is estimated at $6,722.*

Step 1
Are you estimating tree benefits for an existing tree or exploring options for a new tree?

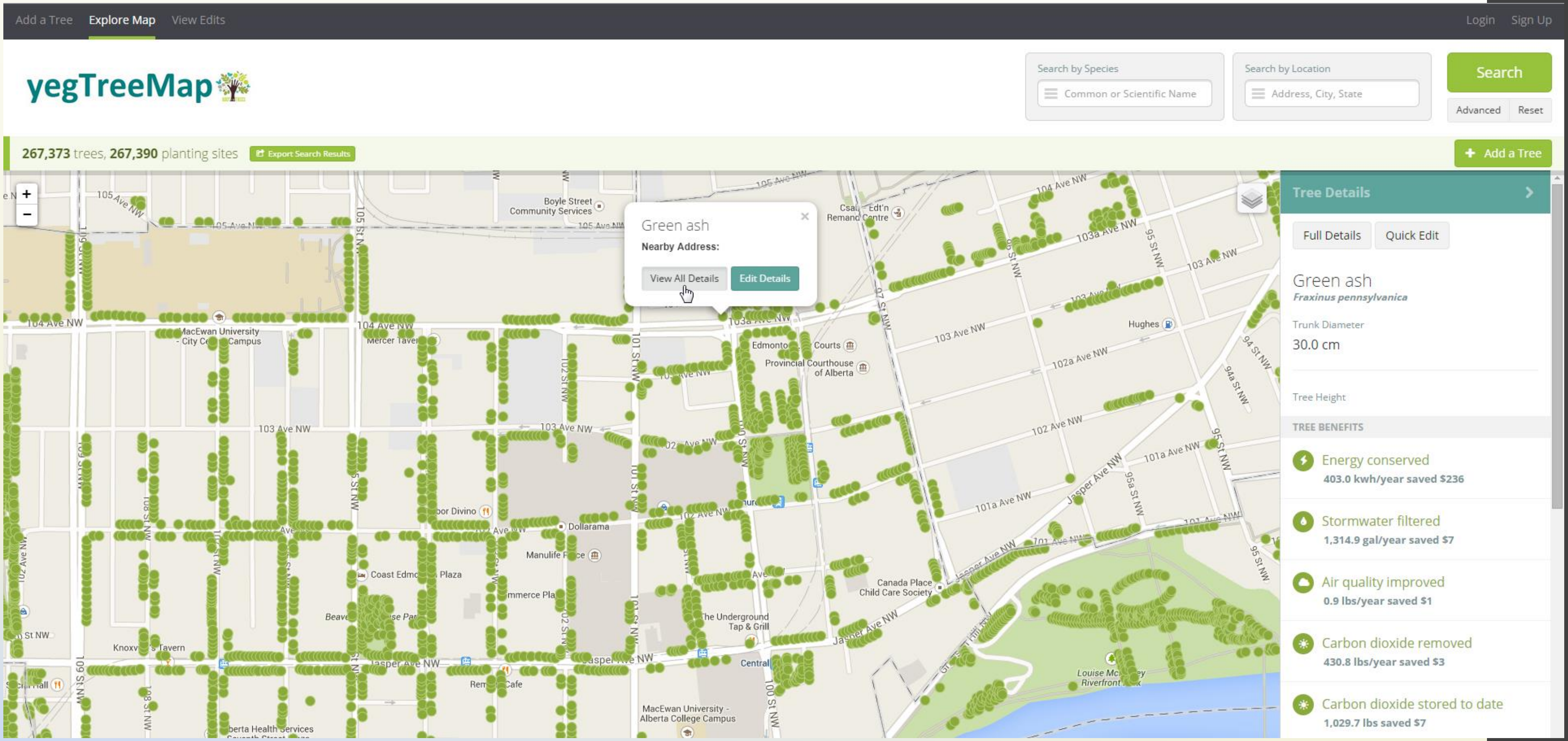
Step 2
Select a species. For an existing tree enter diameter or years following planting.

Step 3
Does your house use electricity for winter heating? (e.g., electric baseboard heaters)

Step 4
What is your closest city? What side of your house is your tree on? Distance tree is from house.

YEG TREE MAP: EDMONTON, ALBERTA

- Map and explore tree data
- Add and edit trees online
- Track stewardship activities
- Add photos and leave comments
- View eco benefits calculated using i-Tree Streets


Add a Tree
Explore Map
View Edits
Login
Sign Up
yegTreeMap
Search by Species
Common or Scientific Name
Search by Location
Address, City, State
Search
Advanced
Reset
Export Search Results
+ Add a Tree
View All Details
Edit Details
Tree Details
Full Details
Quick Edit
104 Ave NW
103 Ave NW
102 Ave NW
Jasper Ave NW
101 St NW
97 St NW
95 St NW
MacEwan University - City Centre Campus
Edmonton Courts
Provincial Courthouse of Alberta
Canada Place Child Care Society
Louise McKinney Riverfront Park
MacEwan University - Alberta College Campus
Boyle Street Community Services
Hughes

267,373 trees, 267,390 planting sites

Green ash

Nearby Address:

Green ash
Fraxinus pennsylvanica

Trunk Diameter
30.0 cm

Tree Height

TREE BENEFITS

Energy conserved
403.0 kwh/year saved $236

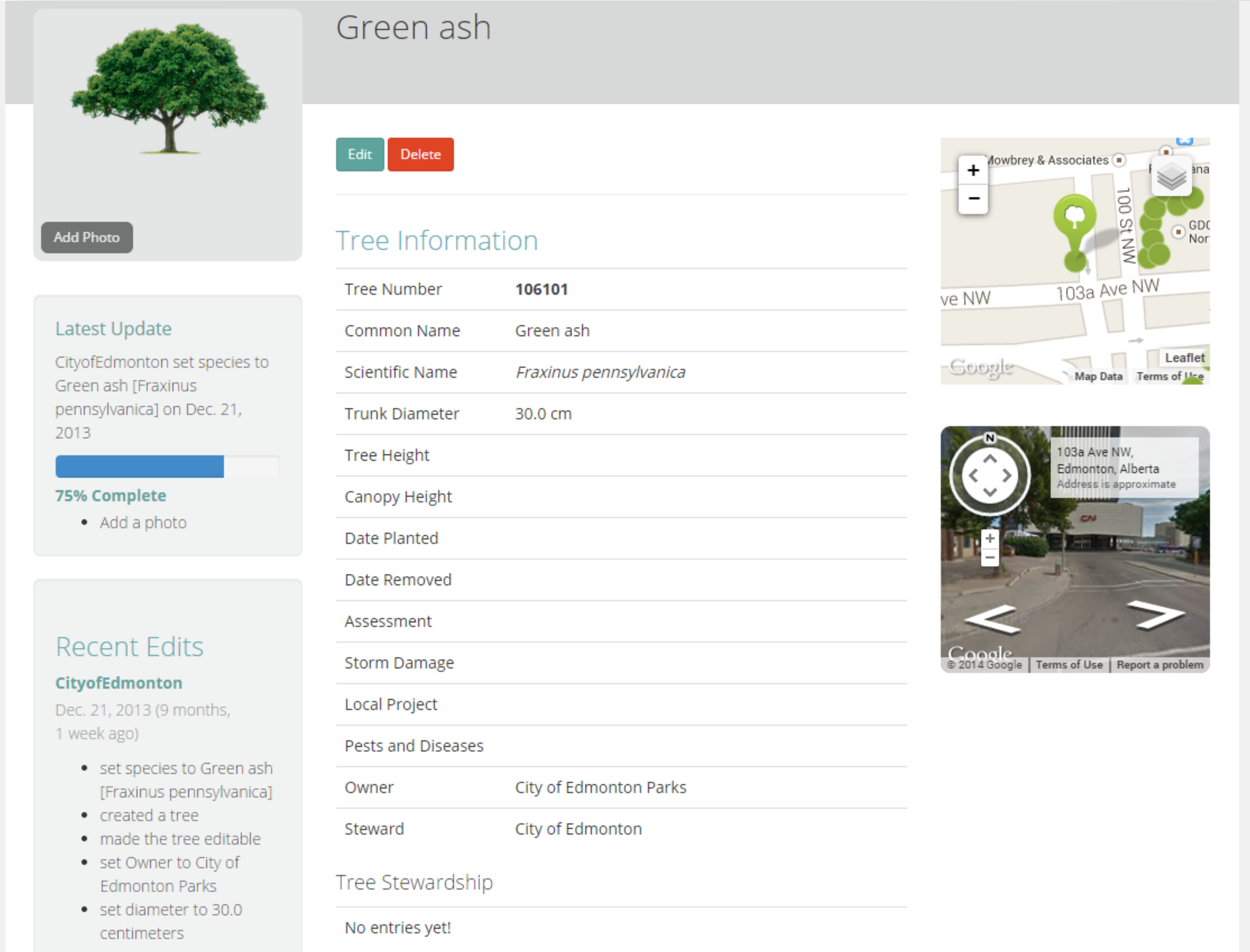
Stormwater filtered
1,314.9 gal/year saved $7

Air quality improved
0.9 lbs/year saved $1

Carbon dioxide removed
430.8 lbs/year saved $3

Carbon dioxide stored to date
1,029.7 lbs saved $7

YEG TREE MAP: EDMONTON, ALBERTA



Add Photo
Edit
Delete
Mowbrey & Associates
100 St NW
103a Ave NW
ve NW
Leaflet
Map Data
Terms of Use
Google
103a Ave NW, Edmonton, Alberta
Address is approximate
© 2014 Google
Terms of Use
Report a problem

Green ash

Latest Update

CityofEdmonton set species to Green ash [Fraxinus pennsylvanica] on Dec. 21, 2013

75% Complete

- Add a photo

Recent Edits

CityofEdmonton

Dec. 21, 2013 (9 months, 1 week ago)

- set species to Green ash [Fraxinus pennsylvanica]
- created a tree
- made the tree editable
- set Owner to City of Edmonton Parks
- set diameter to 30.0 centimeters

Tree Information

Tree Number	**106101**
Common Name	Green ash
Scientific Name	*Fraxinus pennsylvanica*
Trunk Diameter	30.0 cm
Tree Height	
Canopy Height	
Date Planted	
Date Removed	
Assessment	
Storm Damage	
Local Project	
Pests and Diseases	
Owner	City of Edmonton Parks
Steward	City of Edmonton

Tree Stewardship

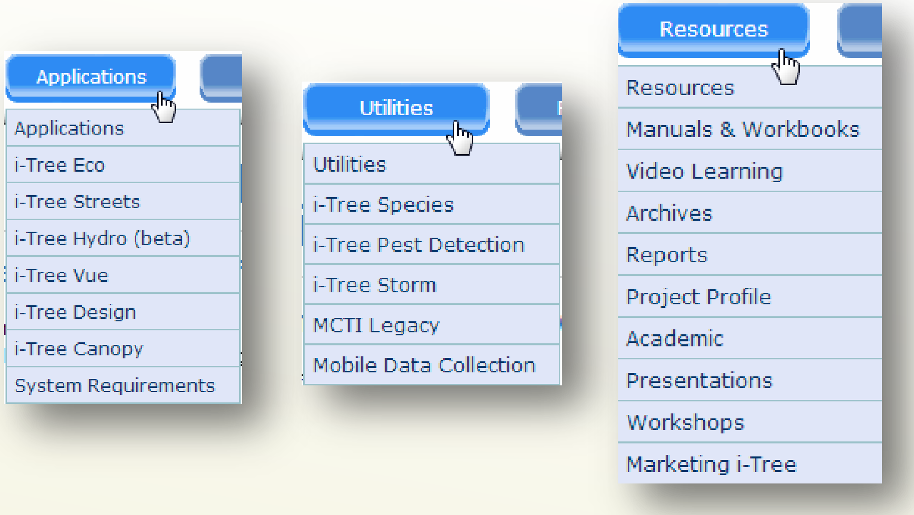
No entries yet!

i-TREE UPDATES: WHAT'S NEW?

Who are i-Tree tools for?

http://www.itreetools.org/

- Citizens, managers, decision-makers, landscape architects, etc.


Applications
Applications
i-Tree Eco
i-Tree Streets
i-Tree Hydro (beta)
i-Tree Vue
i-Tree Design
i-Tree Canopy
System Requirements
Utilities
Utilities
i-Tree Species
i-Tree Pest Detection
i-Tree Storm
MCTI Legacy
Mobile Data Collection
Resources
Resources
Manuals & Workbooks
Video Learning
Archives
Reports
Project Profile
Academic
Presentations
Workshops
Marketing i-Tree

What's New?

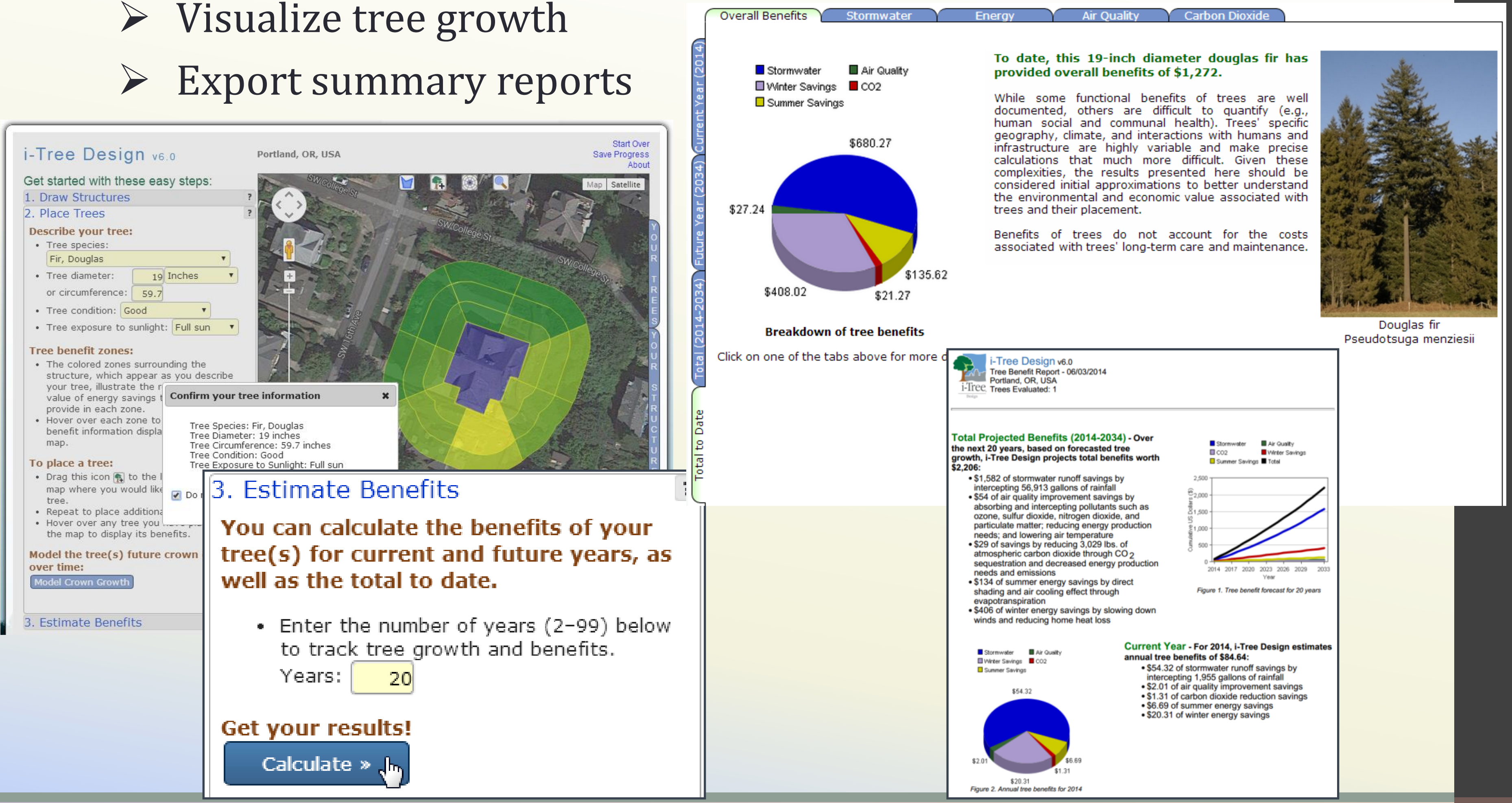
- i-Tree Design
- i-Tree Canopy
- New video learning and promotional marketing materials

http://www.itreetools.org/news/whats_new.php

** Not intended to be a "comprehensive" update*

i-TREE UPDATES: I-DESIGN

- i-Design now allows the user to:
  - Enter multiple trees around a building
  - Forecast cumulative, lifetime (not just annual) benefits
  - Visualize tree growth
  - Export summary reports


Start Over
Save Progress
About
Map
Satellite
SW College St
SW 16th Ave
YOUR TREES
YOUR STRUCTURES
Overall Benefits
Stormwater
Energy
Air Quality
Carbon Dioxide
Current Year (2014)
Future Year (2034)
Total (2014-2034)
Total to Date
Stormwater
Air Quality
Winter Savings
CO2
Summer Savings
$680.27
$27.24
$135.62
$408.02
$21.27
Stormwater
Air Quality
CO2
Winter Savings
Summer Savings
Total
2,500
2,000
1,500
1,000
500
0
Cumulative US Dollars ($)
2014
2017
2020
2023
2026
2029
2033
Year
Stormwater
Air Quality
Winter Savings
CO2
Summer Savings
$54.32
$2.01
$6.69
$1.31
$20.31
Calculate »

i-Tree Design v6.0

Portland, OR, USA

Get started with these easy steps:

1. Draw Structures

2. Place Trees

Describe your tree:

- Tree species: Fir, Douglas
- Tree diameter: 19 Inches
  or circumference: 59.7
- 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 r value of energy savings t provide in each zone.
- Hover over each zone to benefit information displa map.

To place a tree:

- Drag this icon to the map where you would like tree.
- Repeat to place additiona
- Hover over any tree you the map to display its benefits.

Model the tree(s) future crown over time:

Model Crown Growth

3. Estimate Benefits

Confirm your tree information

Tree Species: Fir, Douglas
Tree Diameter: 19 inches
Tree Circumference: 59.7 inches
Tree Condition: Good
Tree Exposure to Sunlight: Full sun

☑ Do

3. Estimate Benefits

You can calculate the benefits of your tree(s) for current and future years, as well as the total to date.

- Enter the number of years (2-99) below to track tree growth and benefits.

Years: 20

Get your results!

Calculate »

To date, this 19-inch diameter douglas fir has provided overall benefits of $1,272.

While some functional benefits of trees are well documented, others are difficult to quantify (e.g., human social and communal health). Trees' specific geography, climate, and interactions with humans and infrastructure are highly variable and make precise calculations that much more difficult. Given these complexities, the results presented here should be considered initial approximations to better understand the environmental and economic value associated with trees and their placement.

Benefits of trees do not account for the costs associated with trees' long-term care and maintenance.

Breakdown of tree benefits

Click on one of the tabs above for more d

Douglas fir
Pseudotsuga menziesii

i-Tree Design v6.0
Tree Benefit Report - 06/03/2014
Portland, OR, USA
Trees Evaluated: 1

Total Projected Benefits (2014-2034) - Over the next 20 years, based on forecasted tree growth, i-Tree Design projects total benefits worth $2,206:

- $1,582 of stormwater runoff savings by intercepting 56,913 gallons of rainfall
- $54 of air quality improvement savings by absorbing and intercepting pollutants such as ozone, sulfur dioxide, nitrogen dioxide, and particulate matter; reducing energy production needs; and lowering air temperature
- $29 of savings by reducing 3,029 lbs. of atmospheric carbon dioxide through CO_2 sequestration and decreased energy production needs and emissions
- $134 of summer energy savings by direct shading and air cooling effect through evapotranspiration
- $406 of winter energy savings by slowing down winds and reducing home heat loss

Figure 1. Tree benefit forecast for 20 years

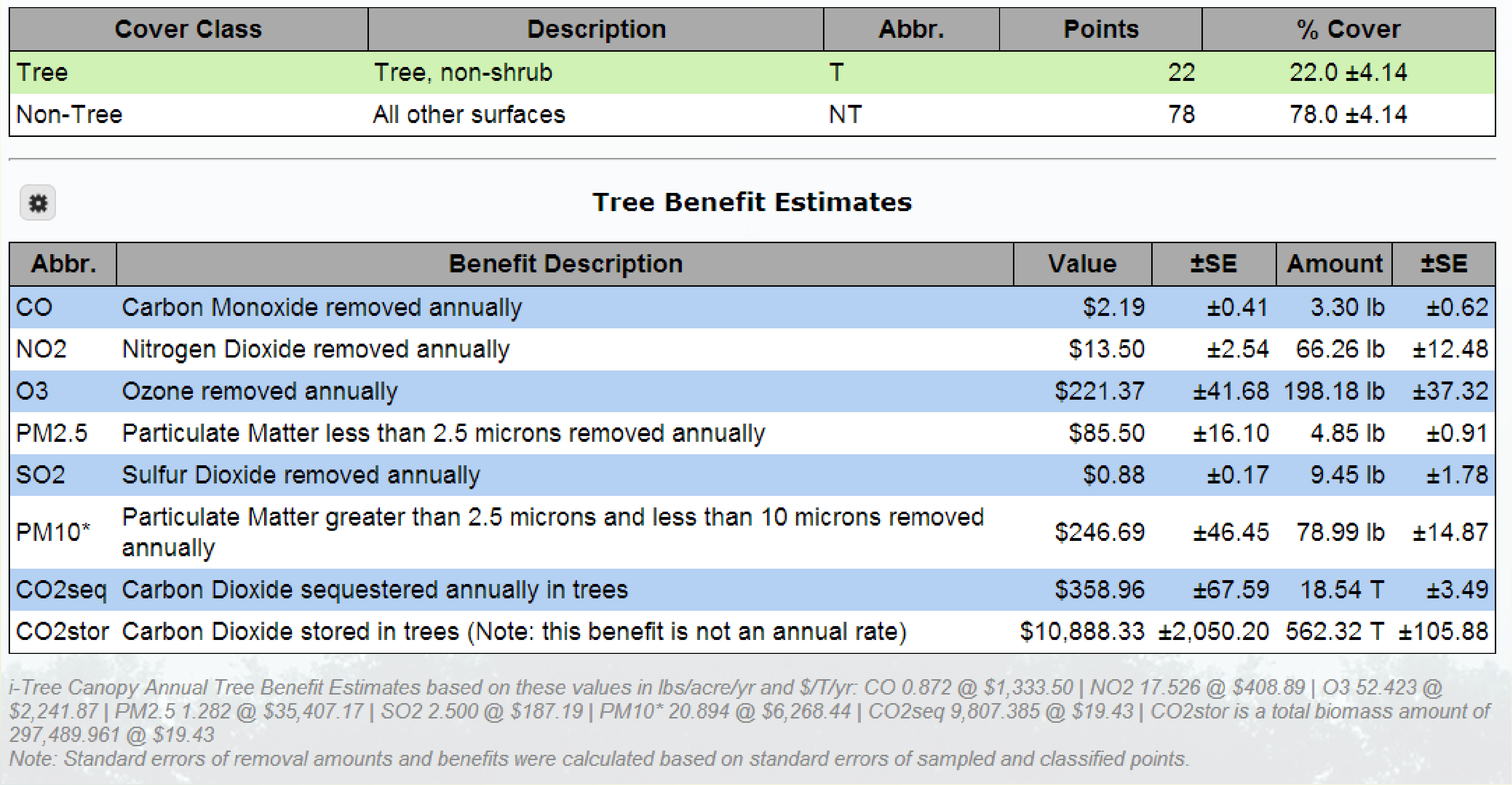
Current Year - For 2014, i-Tree Design estimates annual tree benefits of $84.64:

- $54.32 of stormwater runoff savings by intercepting 1,955 gallons of rainfall
- $2.01 of air quality improvement savings
- $1.31 of carbon dioxide reduction savings
- $6.69 of summer energy savings
- $20.31 of winter energy savings

Figure 2. Annual tree benefits for 2014

i-TREE UPDATES: i-CANOPY

- i-Canopy now includes ecosystem benefits



Cover Class	Description	Abbr.	Points	% Cover
Tree	Tree, non-shrub	T	22	22.0 ±4.14
Non-Tree	All other surfaces	NT	78	78.0 ±4.14

Tree Benefit Estimates

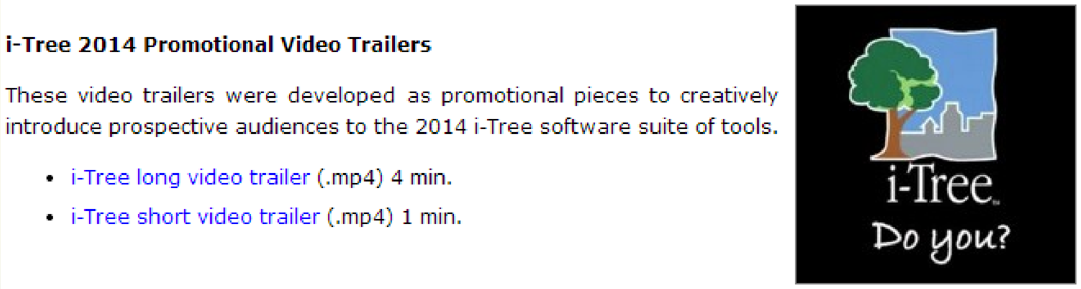
Abbr.	Benefit Description	Value	±SE	Amount	±SE
CO	Carbon Monoxide removed annually	$2.19	±0.41	3.30 lb	±0.62
NO2	Nitrogen Dioxide removed annually	$13.50	±2.54	66.26 lb	±12.48
O3	Ozone removed annually	$221.37	±41.68	198.18 lb	±37.32
PM2.5	Particulate Matter less than 2.5 microns removed annually	$85.50	±16.10	4.85 lb	±0.91
SO2	Sulfur Dioxide removed annually	$0.88	±0.17	9.45 lb	±1.78
PM10*	Particulate Matter greater than 2.5 microns and less than 10 microns removed annually	$246.69	±46.45	78.99 lb	±14.87
CO2seq	Carbon Dioxide sequestered annually in trees	$358.96	±67.59	18.54 T	±3.49
CO2stor	Carbon Dioxide stored in trees (Note: this benefit is not an annual rate)	$10,888.33	±2,050.20	562.32 T	±105.88

i-Tree Canopy Annual Tree Benefit Estimates based on these values in lbs/acre/yr and $/T/yr: CO 0.872 @ $1,333.50 | NO2 17.526 @ $408.89 | O3 52.423 @ $2,241.87 | PM2.5 1.282 @ $35,407.17 | SO2 2.500 @ $187.19 | PM10 20.894 @ $6,268.44 | CO2seq 9,807.385 @ $19.43 | CO2stor is a total biomass amount of 297,489.961 @ $19.43*

Note: Standard errors of removal amounts and benefits were calculated based on standard errors of sampled and classified points.

i-TREE VIDEO LEARNING AND MKTG MATERIALS

- Video Learning
  - ➢ [http:// www.itreetools.org/resources/videos.php](http://www.itreetools.org/resources/videos.php)
  - ➢ Varying lengths covering Eco, Streets, Design, Canopy, Hydro, Species, and mobile data collection.
- Promotional marketing materials
  - ➢ http://www.itreetools.org/resources/why.php
  - ➢ Factsheets and templates
  - ➢ Guides and manuals



i-Tree 2014 Promotional Video Trailers

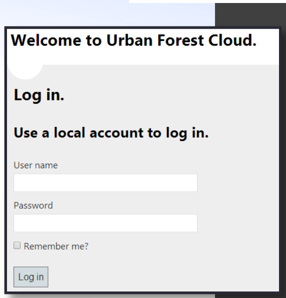
These video trailers were developed as promotional pieces to creatively introduce prospective audiences to the 2014 i-Tree software suite of tools.

- i-Tree long video trailer (.mp4) 4 min.
- i-Tree short video trailer (.mp4) 1 min.

PLAN-IT GEO APPLICATIONS OVERVIEW

plan-it GEO

- Web-browser based for tablets or desktop use
- No GIS or GPS software needed; complete hosted solution
- Real-time, multi-user data entry on-the-cloud
- Subscription-based apps & a platform for custom projects


Welcome to Urban Forest Cloud.

Log in.

Use a local account to log in.

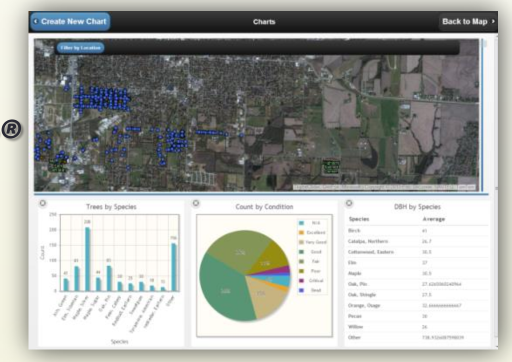
User name

Password

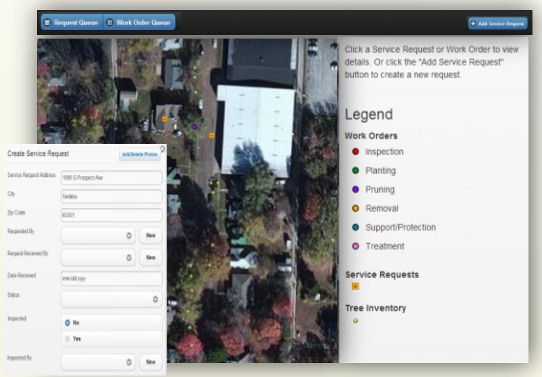
☐ Remember me?

Log in

Tree Plotter®


Create New Chart
Charts
Back to Map
Filter by Location
Trees by Species
Count by Condition
DBH by Species
Species
Average

Work Order Management®


Request Queue
Work Order Queue
Add Service Request

Click a Service Request or Work Order to view details. Or click the "Add Service Request" button to create a new request.

Legend
Work Orders
Inspection
Planting
Pruning
Removal
Support/Protection
Treatment
Service Requests
Tree Inventory
Create Service Request
Add/Delete Photos

Service Request Address: 1686 S Prospect Ave

City: Sedalia

Zip Code: 65301

Requested By:

Request Received By:

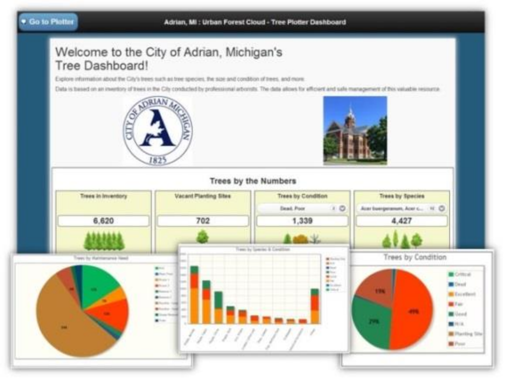
Date Received: mm/dd/yyyy

Status:

Inspected: ● No ○ Yes

Inspected By:

Tree Dashboard


Go to Plotter
Adrian, MI : Urban Forest Cloud - Tree Plotter Dashboard

Welcome to the City of Adrian, Michigan's Tree Dashboard!

Explore information about the City's trees such as tree species, the size and condition of trees, and more.

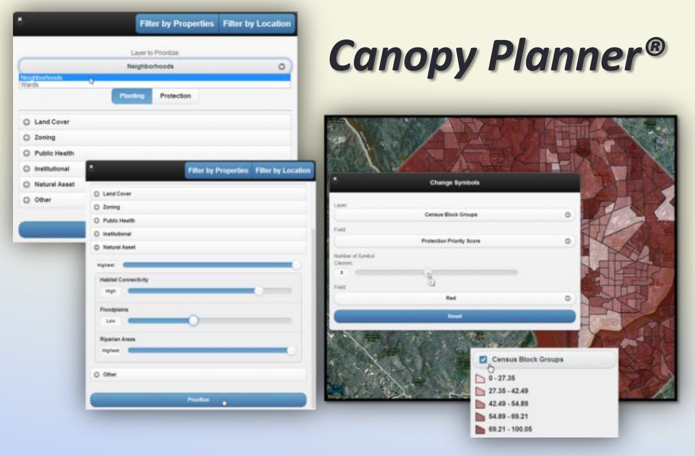
Data is based on an inventory of trees in the City conducted by professional arborists. The data allows for efficient and safe management of this valuable resource.

Trees by the Numbers

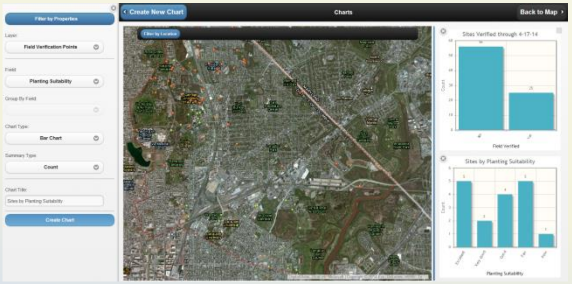
Trees in Inventory	Vacant Planting Sites	Trees by Condition	Trees by Species
		Dead, Poor	Acer buergeranum, Acer c...
6,620	702	1,339	4,427

Trees by Maintenance Need
Trees by Species & Condition
Trees by Condition
Critical
Dead
Excellent
Fair
Good
N/A
Planting Site
Poor
19%
49%
29%

Canopy Planner®


Filter by Properties
Filter by Location
Layer to Prioritize
Neighborhoods
Planting
Protection
Land Cover
Zoning
Public Health
Institutional
Natural Asset
Other
Habitat Connectivity
Floodplains
Riparian Areas
Prioritize
Change Symbols
Census Block Groups
Protection Priority Score
Red
Reset
0 - 27.35
27.35 - 42.49
42.49 - 54.89
54.89 - 69.21
69.21 - 100.00

Open Spatial Surveys

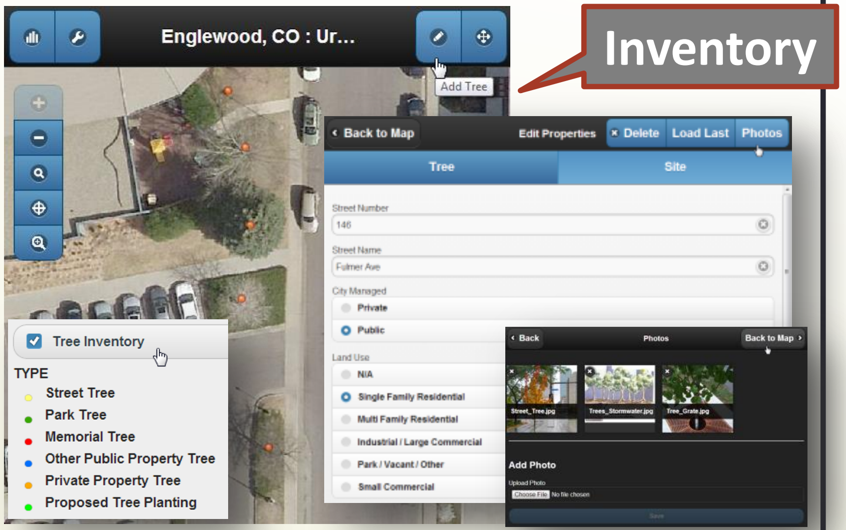

Filter by Properties
Field Verification Points
Planting Suitability
Bar Chart
Count
Create Chart
Create New Chart
Charts
Back to Map
Sites Verified through 4-17-14
Field Verified
Sites by Planting Suitability

Park Amenities®

a new
Park Inventory App

Parks administrators and staff are now able to build a clearer picture of their parks, faster than ever before.

URBAN FOREST CLOUD: TREE PLOTTER APP


Englewood, CO : Ur...
Add Tree
Back to Map
Edit Properties
Delete
Load Last
Photos
Tree
Site
Back
Photos
Back to Map
Street_Tree.jpg
Trees_Stormwater.jpg
Tree_Grate.jpg
Add Photo
Upload Photo
Choose File
No file chosen
Save

Street Number: 146

Street Name: Fulmer Ave

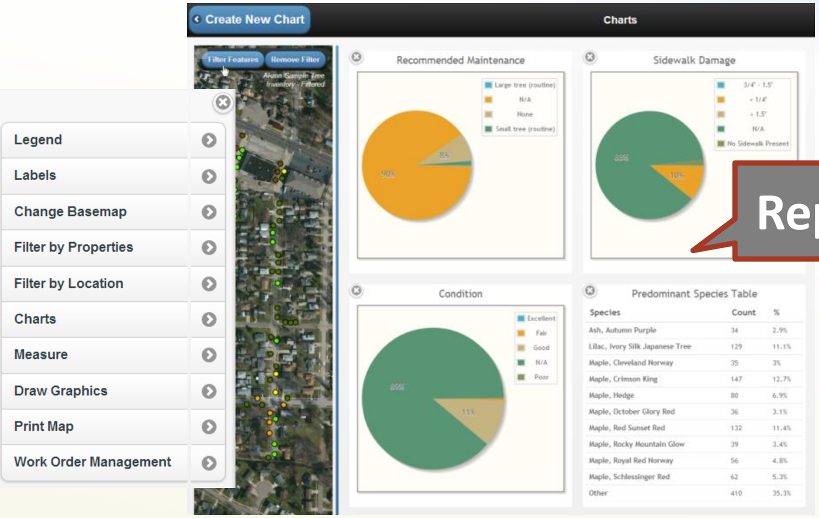
City Managed
○ Private
● Public

Land Use
○ N/A
● Single Family Residential
○ Multi Family Residential
○ Industrial / Large Commercial
○ Park / Vacant / Other
○ Small Commercial

☑ Tree Inventory

TYPE
- Street Tree
- Park Tree
- Memorial Tree
- Other Public Property Tree
- Private Property Tree
- Proposed Tree Planting

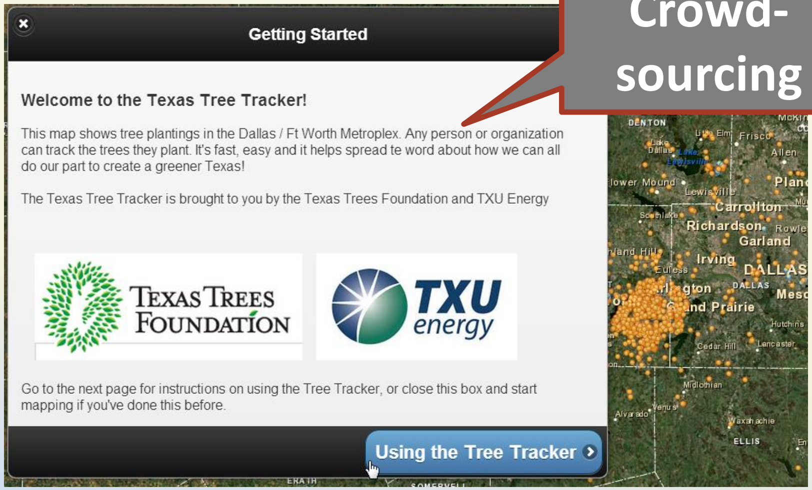
Inventory


Create New Chart
Charts
Filter Features
Remove Filter
Akron Sample Tree Inventory - Filtered
Legend
Labels
Change Basemap
Filter by Properties
Filter by Location
Charts
Measure
Draw Graphics
Print Map
Work Order Management
Recommended Maintenance
Large tree (routine)
N/A
None
Small tree (routine)
90%
8%
Sidewalk Damage
3/4" - 1.5"
< 1/4"
> 1.5"
N/A
No Sidewalk Present
88%
10%
Condition
Excellent
Fair
Good
N/A
Poor
89%
11%

Predominant Species Table

Species	Count	%
Ash, Autumn Purple	34	2.9%
Lilac, Ivory Silk Japanese Tree	129	11.1%
Maple, Cleveland Norway	35	3%
Maple, Crimson King	147	12.7%
Maple, Hedge	80	6.9%
Maple, October Glory Red	36	3.1%
Maple, Red Sunset Red	132	11.4%
Maple, Rocky Mountain Glow	39	3.4%
Maple, Royal Red Norway	56	4.8%
Maple, Schlessinger Red	62	5.3%
Other	410	35.3%

Reports


Getting Started
Texas Trees Foundation
TXU energy
Using the Tree Tracker
DENTON
Frisco
Allen
Lewisville
Carrollton
Plano
Richardson
Garland
Irving
DALLAS
Grand Prairie
Cedar Hill
Lancaster
Midlothian
Waxahachie
ELLIS

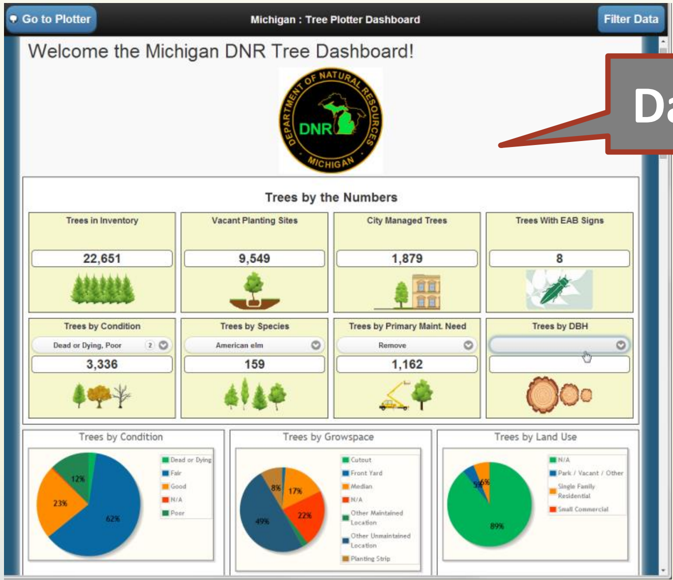
Welcome to the Texas Tree Tracker!

This map shows tree plantings in the Dallas / Ft Worth Metroplex. Any person or organization can track the trees they plant. It's fast, easy and it helps spread te word about how we can all do our part to create a greener Texas!

The Texas Tree Tracker is brought to you by the Texas Trees Foundation and TXU Energy

Go to the next page for instructions on using the Tree Tracker, or close this box and start mapping if you've done this before.

Crowd-sourcing


Go to Plotter
Michigan : Tree Plotter Dashboard
Filter Data
Department of Natural Resources Michigan DNR
Trees by Condition
Dead or Dying
Fair
Good
N/A
Poor
12%
23%
62%
Trees by Growspace
Cutout
Front Yard
Median
N/A
Other Maintained Location
Other Unmaintained Location
Planting Strip
8%
17%
22%
49%
Trees by Land Use
N/A
Park / Vacant / Other
Single Family Residential
Small Commercial
5%
6%
89%

Welcome the Michigan DNR Tree Dashboard!

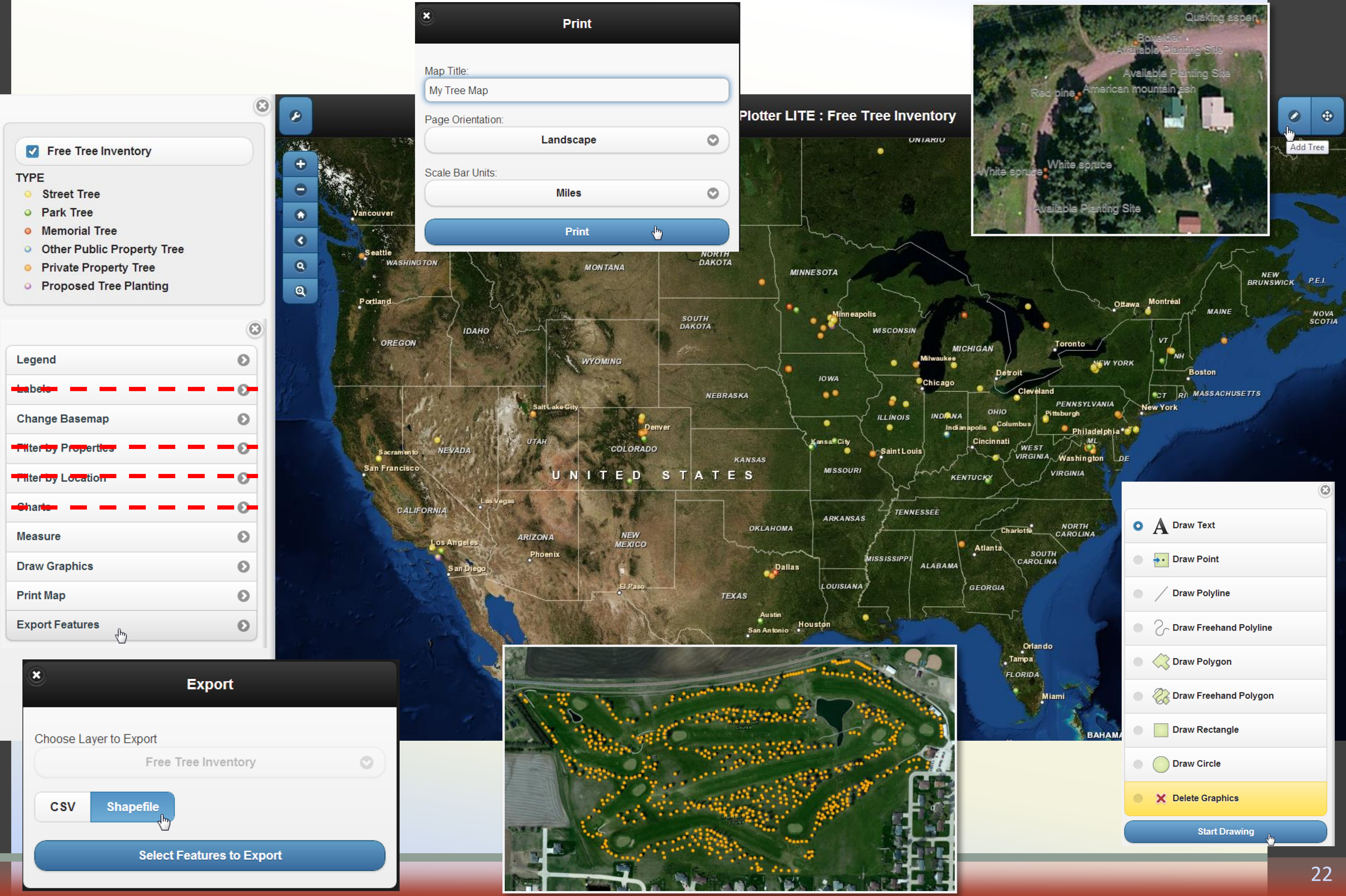
Trees by the Numbers

Trees in Inventory	Vacant Planting Sites	City Managed Trees	Trees With EAB Signs
22,651	9,549	1,879	8

Trees by Condition	Trees by Species	Trees by Primary Maint. Need	Trees by DBH
Dead or Dying, Poor (2)	American elm	Remove	
3,336	159	1,162	

Dashboard

PLOTTER "LITE" (FREE VERSION)



Map Title: My Tree Map

Page Orientation: Landscape

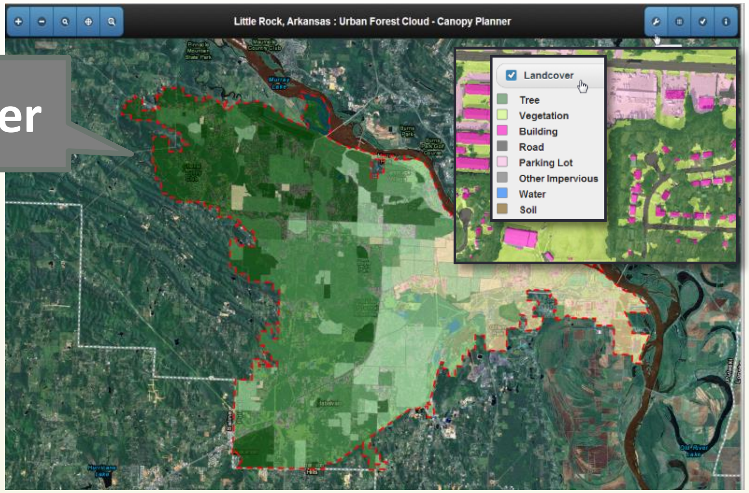
Scale Bar Units: Miles

Choose Layer to Export: Free Tree Inventory

Print
Print
Plotter LITE : Free Tree Inventory
☑ Free Tree Inventory
TYPE
Street Tree
Park Tree
Memorial Tree
Other Public Property Tree
Private Property Tree
Proposed Tree Planting
Legend
~~Labels~~
Change Basemap
~~Filter by Properties~~
~~Filter by Location~~
~~Charts~~
Measure
Draw Graphics
Print Map
Export Features
Export
CSV
Shapefile
Select Features to Export
Draw Text
Draw Point
Draw Polyline
Draw Freehand Polyline
Draw Polygon
Draw Freehand Polygon
Draw Rectangle
Draw Circle
Delete Graphics
Start Drawing
Add Tree
Quaking aspen
Boxelder
Available Planting Site
Available Planting Site
Red pine
American mountain ash
White spruce
White spruce
Available Planting Site
UNITED STATES
ONTARIO
Vancouver
Seattle
WASHINGTON
Portland
OREGON
IDAHO
MONTANA
NORTH DAKOTA
SOUTH DAKOTA
WYOMING
NEBRASKA
MINNESOTA
Minneapolis
WISCONSIN
MICHIGAN
Milwaukee
Chicago
IOWA
ILLINOIS
INDIANA
Indianapolis
OHIO
Columbus
Cincinnati
Detroit
Cleveland
Toronto
Ottawa
Montréal
NEW YORK
PENNSYLVANIA
Pittsburgh
Philadelphia
New York
Boston
MASSACHUSETTS
VT
NH
CT
RI
MAINE
NEW BRUNSWICK
P.E.I.
NOVA SCOTIA
WEST VIRGINIA
Washington
VIRGINIA
DE
MD
KENTUCKY
Saint Louis
MISSOURI
Kansas City
KANSAS
COLORADO
Denver
Salt Lake City
UTAH
NEVADA
Sacramento
San Francisco
CALIFORNIA
Las Vegas
Los Angeles
San Diego
ARIZONA
Phoenix
NEW MEXICO
El Paso
TEXAS
Dallas
Austin
San Antonio
Houston
OKLAHOMA
ARKANSAS
LOUISIANA
MISSISSIPPI
ALABAMA
TENNESSEE
GEORGIA
Atlanta
Charlotte
NORTH CAROLINA
SOUTH CAROLINA
FLORIDA
Orlando
Tampa
Miami
BAHAMAS

CANOPY PLANNER: LANDSCAPE-SCALE ANALYSIS

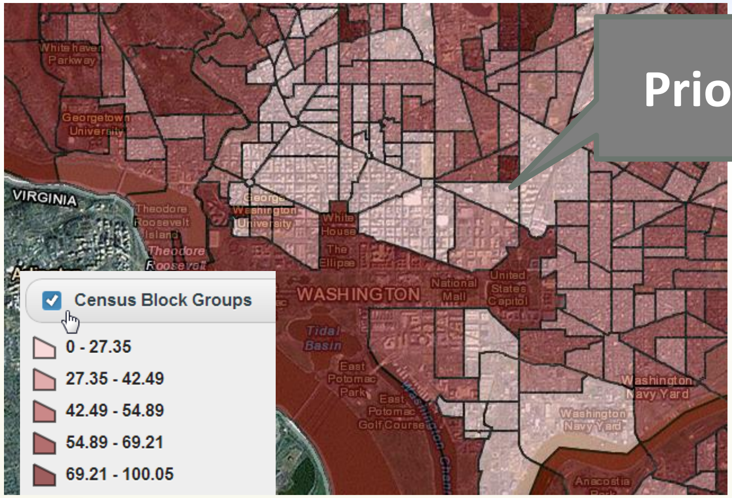
Viewer



Little Rock, Arkansas : Urban Forest Cloud - Canopy Planner

☑ Landcover
Tree
Vegetation
Building
Road
Parking Lot
Other Impervious
Water
Soil

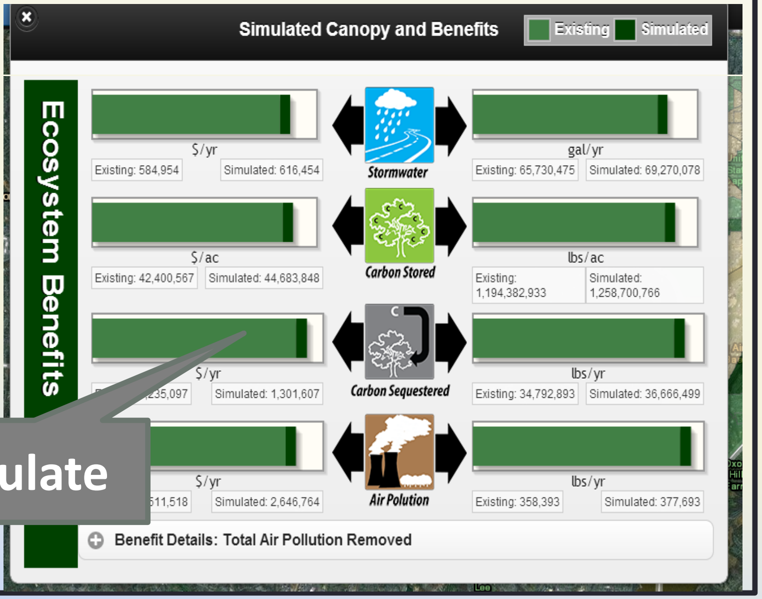
Prioritize



☑ Census Block Groups

0 - 27.35
27.35 - 42.49
42.49 - 54.89
54.89 - 69.21
69.21 - 100.05
VIRGINIA
WASHINGTON
Georgetown University
Theodore Roosevelt Island
George Washington University
White House
The Ellipse
National Mall
United States Capitol
Tidal Basin
East Potomac Park
East Potomac Golf Course
Washington Navy Yard
Anacostia

Simulate



Simulated Canopy and Benefits

🟩 Existing 🟩 Simulated

Ecosystem Benefits

Stormwater

$/yr
Existing: 584,954
Simulated: 616,454

gal/yr
Existing: 65,730,475
Simulated: 69,270,078

Carbon Stored

$/ac
Existing: 42,400,567
Simulated: 44,683,848

lbs/ac
Existing: 1,194,382,933
Simulated: 1,258,700,766

Carbon Sequestered

$/yr
,235,097
Simulated: 1,301,607

lbs/yr
Existing: 34,792,893
Simulated: 36,666,499

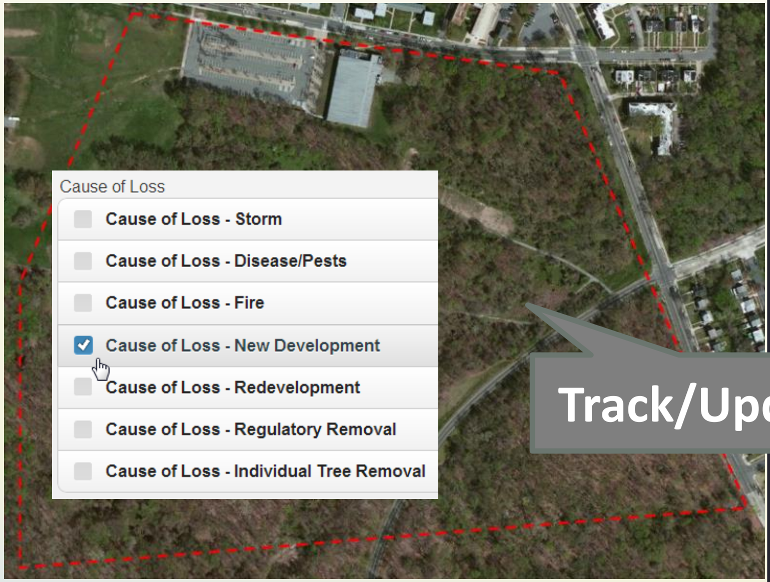
Air Polution

$/yr
511,518
Simulated: 2,646,764

lbs/yr
Existing: 358,393
Simulated: 377,693

⊕ Benefit Details: Total Air Pollution Removed

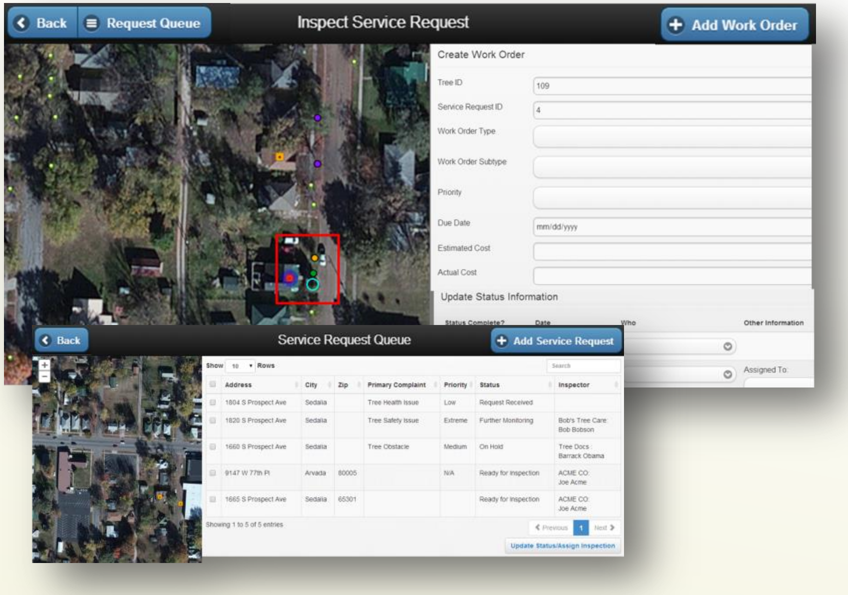
Track/Update



Cause of Loss

☐ Cause of Loss - Storm
☐ Cause of Loss - Disease/Pests
☐ Cause of Loss - Fire
☑ Cause of Loss - New Development
☐ Cause of Loss - Redevelopment
☐ Cause of Loss - Regulatory Removal
☐ Cause of Loss - Individual Tree Removal

ONLINE SERVICE REQUEST & WORK ORDERS


Back
Request Queue
Inspect Service Request
Add Work Order

Create Work Order

Tree ID: 109
Service Request ID: 4
Work Order Type:
Work Order Subtype:
Priority:
Due Date: mm/dd/yyyy
Estimated Cost:
Actual Cost:

Update Status Information

Status Complete? Date Who Other Information
Assigned To:

Back
Service Request Queue
Add Service Request

Show 10 Rows

☐	Address	City	Zip	Primary Complaint	Priority	Status	Inspector
☐	1804 S Prospect Ave	Sedalia		Tree Health Issue	Low	Request Received	
☐	1820 S Prospect Ave	Sedalia		Tree Safety Issue	Extreme	Further Monitoring	Bob's Tree Care: Bob Bobson
☐	1660 S Prospect Ave	Sedalia		Tree Obstacle	Medium	On Hold	Tree Docs : Barrack Obama
☐	9147 W 77th Pl	Arvada	80005		N/A	Ready for Inspection	ACME CO: Joe Acme
☐	1665 S Prospect Ave	Sedalia	65301			Ready for Inspection	ACME CO: Joe Acme

Showing 1 to 5 of 5 entries

Previous
1
Next
Update Status/Assign Inspection

A companion "app" to Tree Plotter

General Public

Enter a Service Request

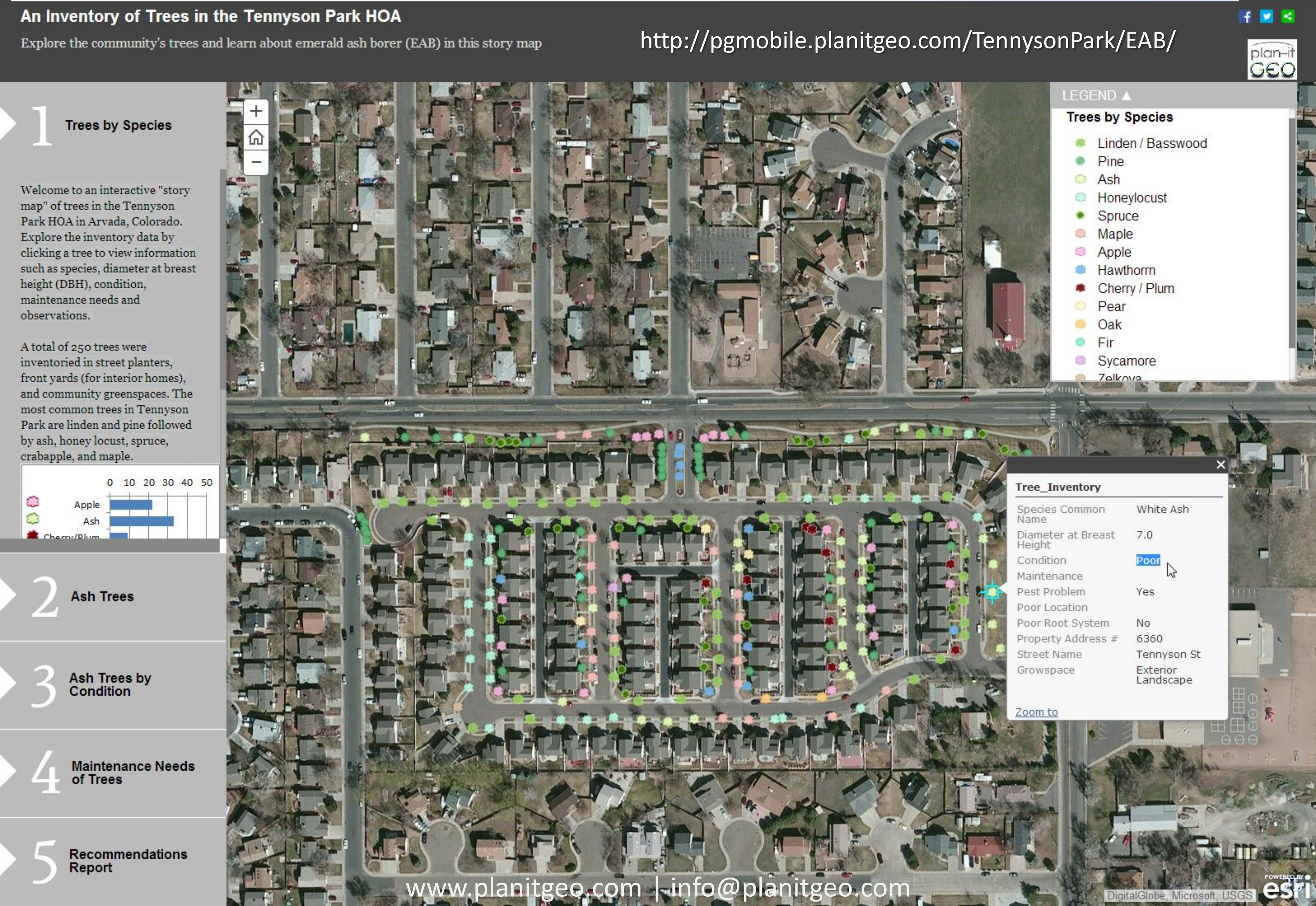
Managers / Inspectors

Review, enter, track, edit, and audit work

Contractors

Conduct work, update data in the app

TREE PLOTTER: "EAB STORY MAP"



An Inventory of Trees in the Tennyson Park HOA

Explore the community's trees and learn about emerald ash borer (EAB) in this story map

http://pgmobile.planitgeo.com/TennysonPark/EAB/

1 **Trees by Species**

Welcome to an interactive "story map" of trees in the Tennyson Park HOA in Arvada, Colorado. Explore the inventory data by clicking a tree to view information such as species, diameter at breast height (DBH), condition, maintenance needs and observations.

A total of 250 trees were inventoried in street planters, front yards (for interior homes), and community greenspaces. The most common trees in Tennyson Park are linden and pine followed by ash, honey locust, spruce, crabapple, and maple.

2 **Ash Trees**

3 **Ash Trees by Condition**

4 **Maintenance Needs of Trees**

5 **Recommendations Report**

LEGEND ▲

Trees by Species

- ● Linden / Basswood
- ● Pine
- ● Ash
- ● Honeylocust
- ● Spruce
- ● Maple
- ● Apple
- ● Hawthorn
- ● Cherry / Plum
- ● Pear
- ● Oak
- ● Fir
- ● Sycamore
- ● Zelkova

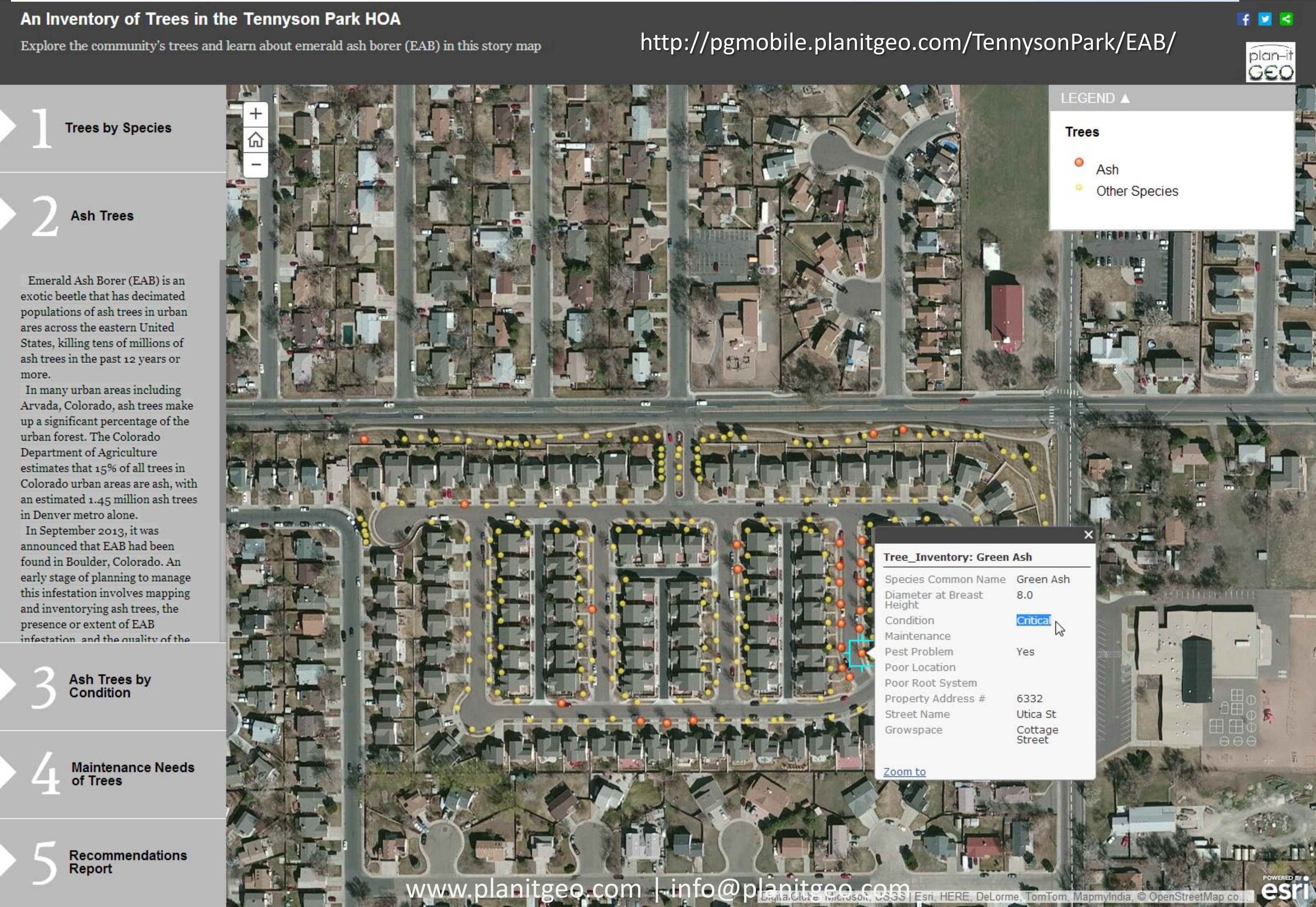
Tree_Inventory

Species Common Name	White Ash
Diameter at Breast Height	7.0
Condition	Poor
Maintenance	
Pest Problem	Yes
Poor Location	
Poor Root System	No
Property Address #	6360
Street Name	Tennyson St
Growspace	Exterior Landscape

Zoom to

www.planitgeo.com | info@planitgeo.com

TREE PLOTTER: "EAB STORY MAP"



http://pgmobile.planitgeo.com/TennysonPark/EAB/

An Inventory of Trees in the Tennyson Park HOA

Explore the community's trees and learn about emerald ash borer (EAB) in this story map

1 Trees by Species

2 Ash Trees

Emerald Ash Borer (EAB) is an exotic beetle that has decimated populations of ash trees in urban ares across the eastern United States, killing tens of millions of ash trees in the past 12 years or more.

In many urban areas including Arvada, Colorado, ash trees make up a significant percentage of the urban forest. The Colorado Department of Agriculture estimates that 15% of all trees in Colorado urban areas are ash, with an estimated 1.45 million ash trees in Denver metro alone.

In September 2013, it was announced that EAB had been found in Boulder, Colorado. An early stage of planning to manage this infestation involves mapping and inventorying ash trees, the presence or extent of EAB infestation, and the quality of the

3 Ash Trees by Condition

4 Maintenance Needs of Trees

5 Recommendations Report

Trees

● Ash
● Other Species

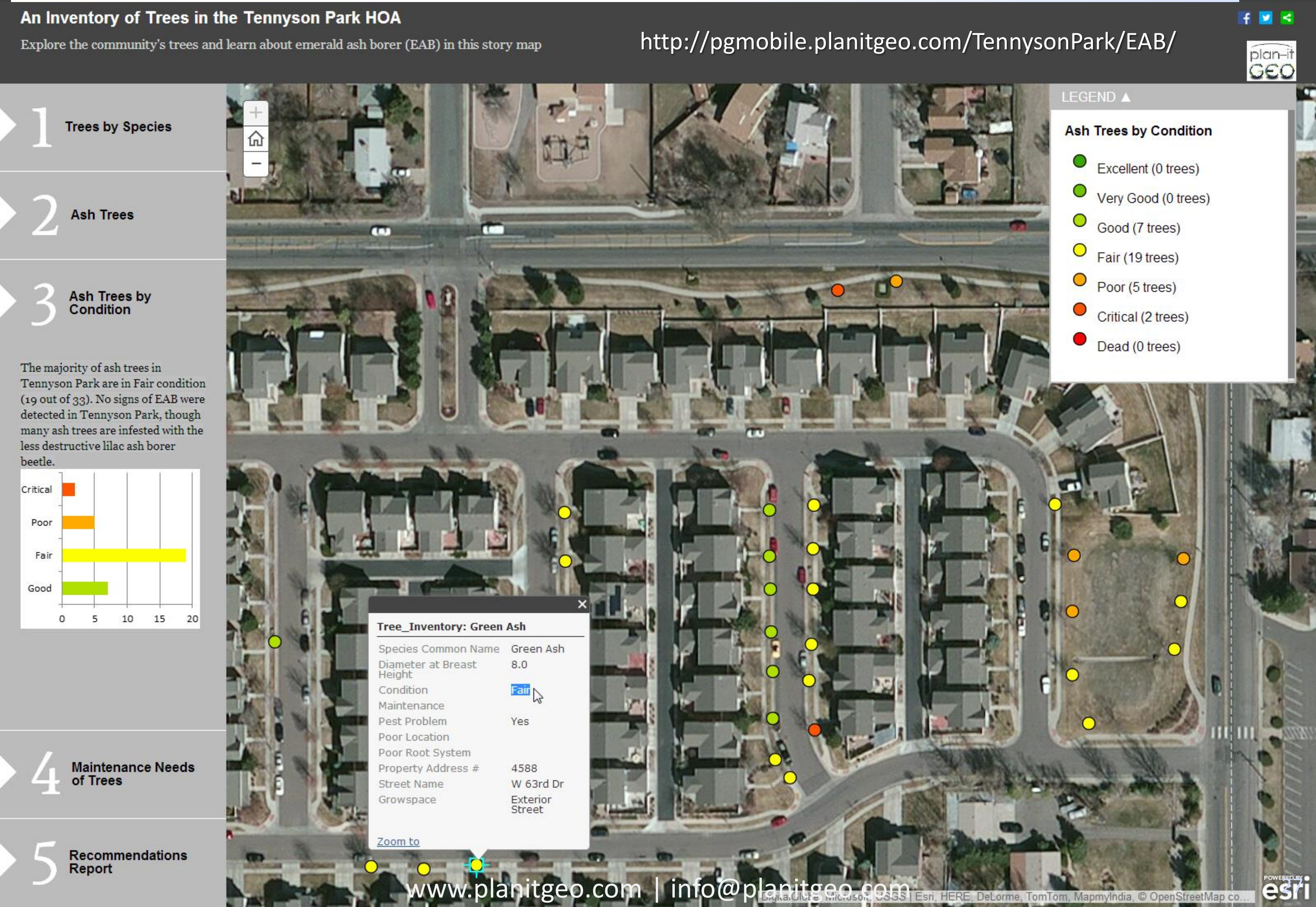
Tree_Inventory: Green Ash

Species Common Name	Green Ash
Diameter at Breast Height	8.0
Condition	Critical
Maintenance	
Pest Problem	Yes
Poor Location	
Poor Root System	
Property Address #	6332
Street Name	Utica St
Growspace	Cottage Street

DigitalGlobe, Microsoft, USGS | Esri, HERE, DeLorme, TomTom, MapmyIndia, © OpenStreetMap co...

www.planitgeo.com | info@planitgeo.com

TREE PLOTTER: “EAB STORY MAP”



An Inventory of Trees in the Tennyson Park HOA

Explore the community's trees and learn about emerald ash borer (EAB) in this story map

http://pgmobile.planitgeo.com/TennysonPark/EAB/

1 Trees by Species

2 Ash Trees

3 Ash Trees by Condition

The majority of ash trees in Tennyson Park are in Fair condition (19 out of 33). No signs of EAB were detected in Tennyson Park, though many ash trees are infested with the less destructive lilac ash borer beetle.

Critical
Poor
Fair
Good
0
5
10
15
20

4 Maintenance Needs of Trees

5 Recommendations Report

LEGEND ▲

Ash Trees by Condition

- ● Excellent (0 trees)
- ● Very Good (0 trees)
- ● Good (7 trees)
- ● Fair (19 trees)
- ● Poor (5 trees)
- ● Critical (2 trees)
- ● Dead (0 trees)

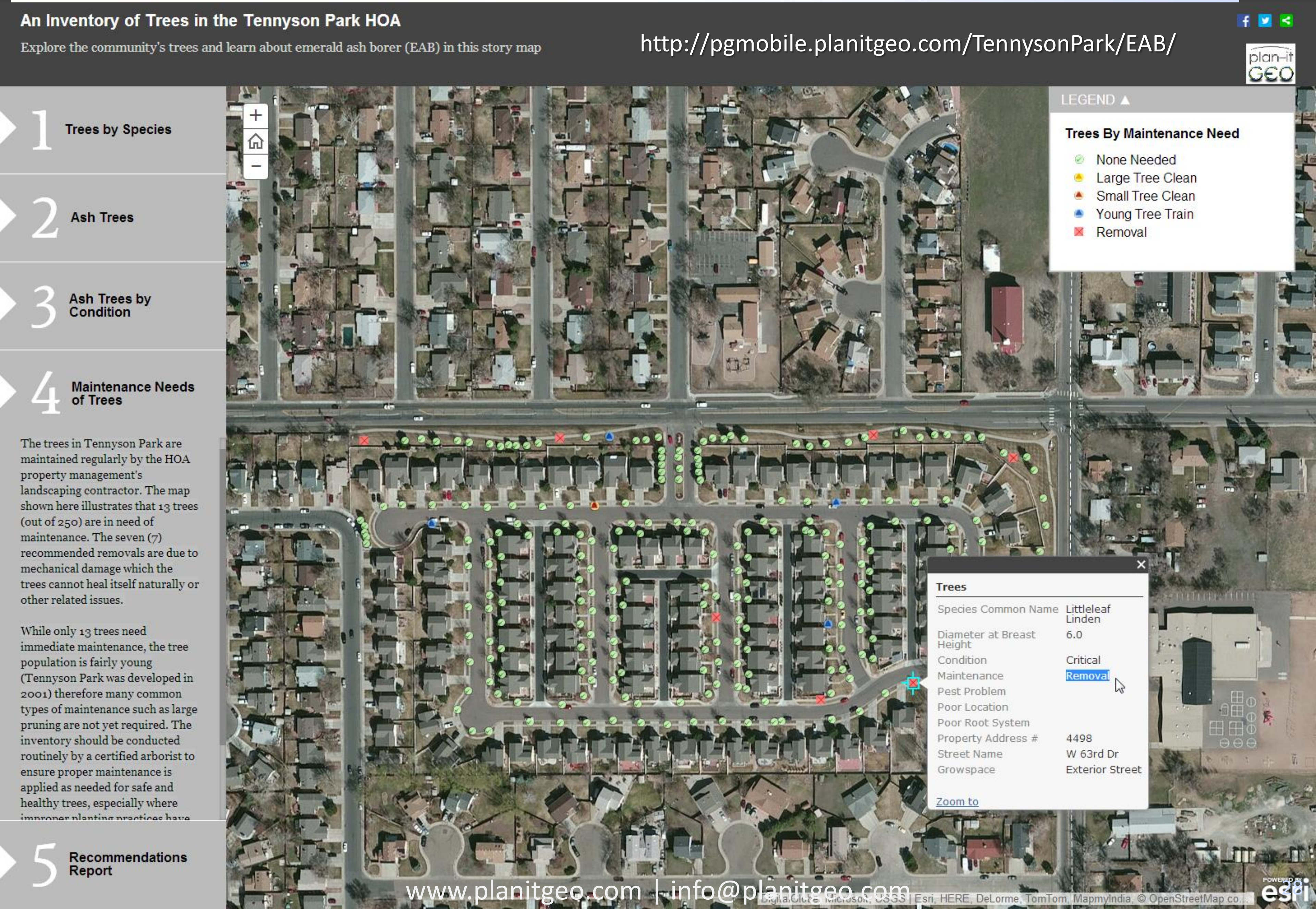
Tree_Inventory: Green Ash

Species Common Name	Green Ash
Diameter at Breast Height	8.0
Condition	Fair
Maintenance	
Pest Problem	Yes
Poor Location	
Poor Root System	
Property Address #	4588
Street Name	W 63rd Dr
Growspace	Exterior Street

Zoom to

plan-it GEO
DigitalGlobe, Microsoft, USGS | Esri, HERE, DeLorme, TomTom, MapmyIndia, © OpenStreetMap co...
POWERED BY esri

TREE PLOTTER: “EAB STORY MAP”



An Inventory of Trees in the Tennyson Park HOA

Explore the community's trees and learn about emerald ash borer (EAB) in this story map

http://pgmobile.planitgeo.com/TennysonPark/EAB/

1 Trees by Species

2 Ash Trees

3 Ash Trees by Condition

4 Maintenance Needs of Trees

The trees in Tennyson Park are maintained regularly by the HOA property management's landscaping contractor. The map shown here illustrates that 13 trees (out of 250) are in need of maintenance. The seven (7) recommended removals are due to mechanical damage which the trees cannot heal itself naturally or other related issues.

While only 13 trees need immediate maintenance, the tree population is fairly young (Tennyson Park was developed in 2001) therefore many common types of maintenance such as large pruning are not yet required. The inventory should be conducted routinely by a certified arborist to ensure proper maintenance is applied as needed for safe and healthy trees, especially where improper planting practices have

5 Recommendations Report

LEGEND ▲

Trees By Maintenance Need

- ✓ None Needed
- ▲ Large Tree Clean
- ▲ Small Tree Clean
- ▲ Young Tree Train
- ☒ Removal

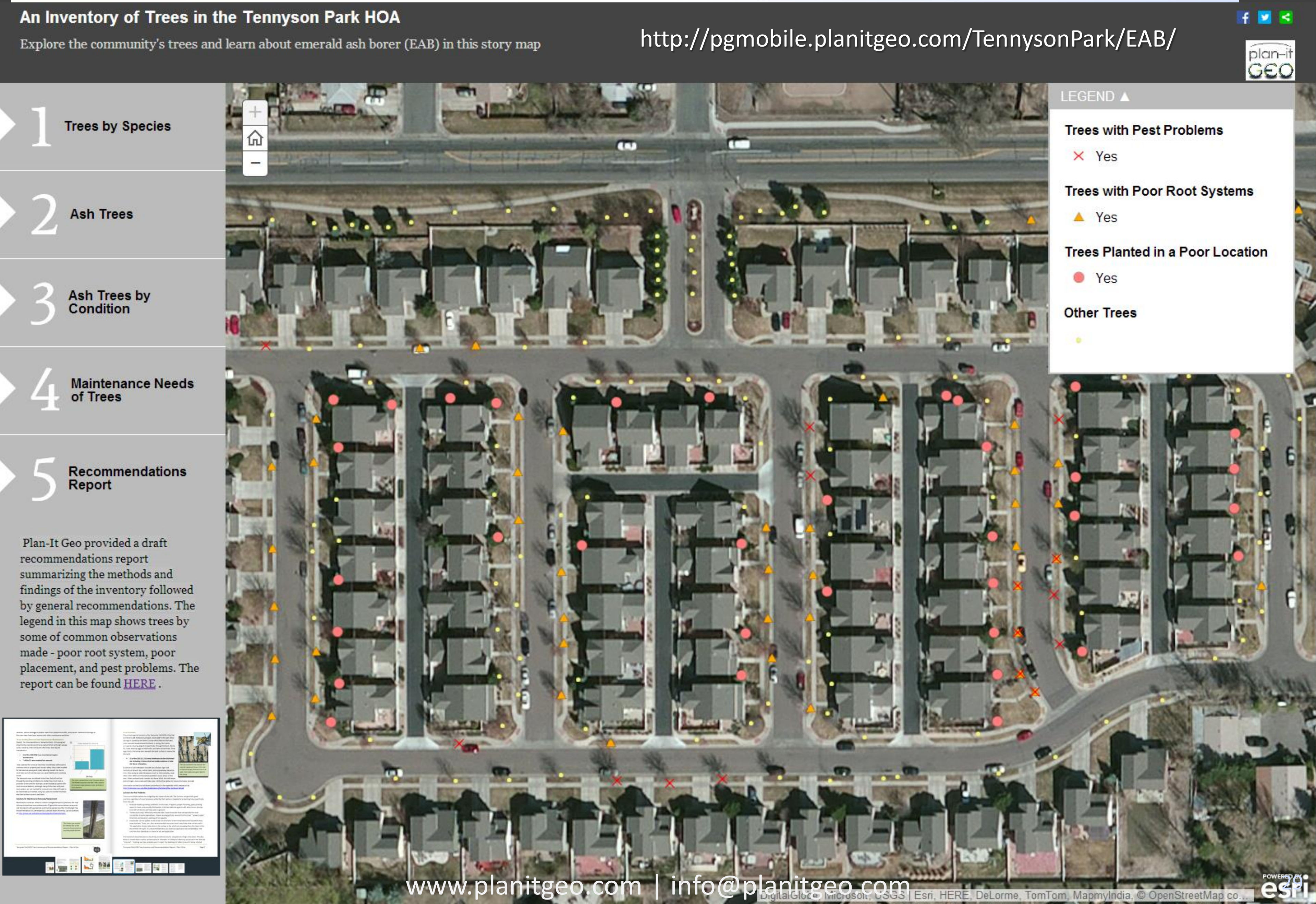
Trees

Species Common Name	Littleleaf Linden
Diameter at Breast Height	6.0
Condition	Critical
Maintenance	Removal
Pest Problem	
Poor Location	
Poor Root System	
Property Address #	4498
Street Name	W 63rd Dr
Growspace	Exterior Street

Zoom to

plan-it GEO
DigitalGlobe, Microsoft, USGS | Esri, HERE, DeLorme, TomTom, MapmyIndia, © OpenStreetMap co...
POWERED BY esri

TREE PLOTTER: "EAB STORY MAP"



An Inventory of Trees in the Tennyson Park HOA

Explore the community's trees and learn about emerald ash borer (EAB) in this story map

http://pgmobile.planitgeo.com/TennysonPark/EAB/

1 Trees by Species

2 Ash Trees

3 Ash Trees by Condition

4 Maintenance Needs of Trees

5 Recommendations Report

Plan-It Geo provided a draft recommendations report summarizing the methods and findings of the inventory followed by general recommendations. The legend in this map shows trees by some of common observations made - poor root system, poor placement, and pest problems. The report can be found HERE .

LEGEND ▲

Trees with Pest Problems

× Yes

Trees with Poor Root Systems

▲ Yes

Trees Planted in a Poor Location

● Yes

Other Trees

●

plan-it GEO
+
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DigitalGlobe, Microsoft, USGS | Esri, HERE, DeLorme, TomTom, MapmyIndia, © OpenStreetMap co...
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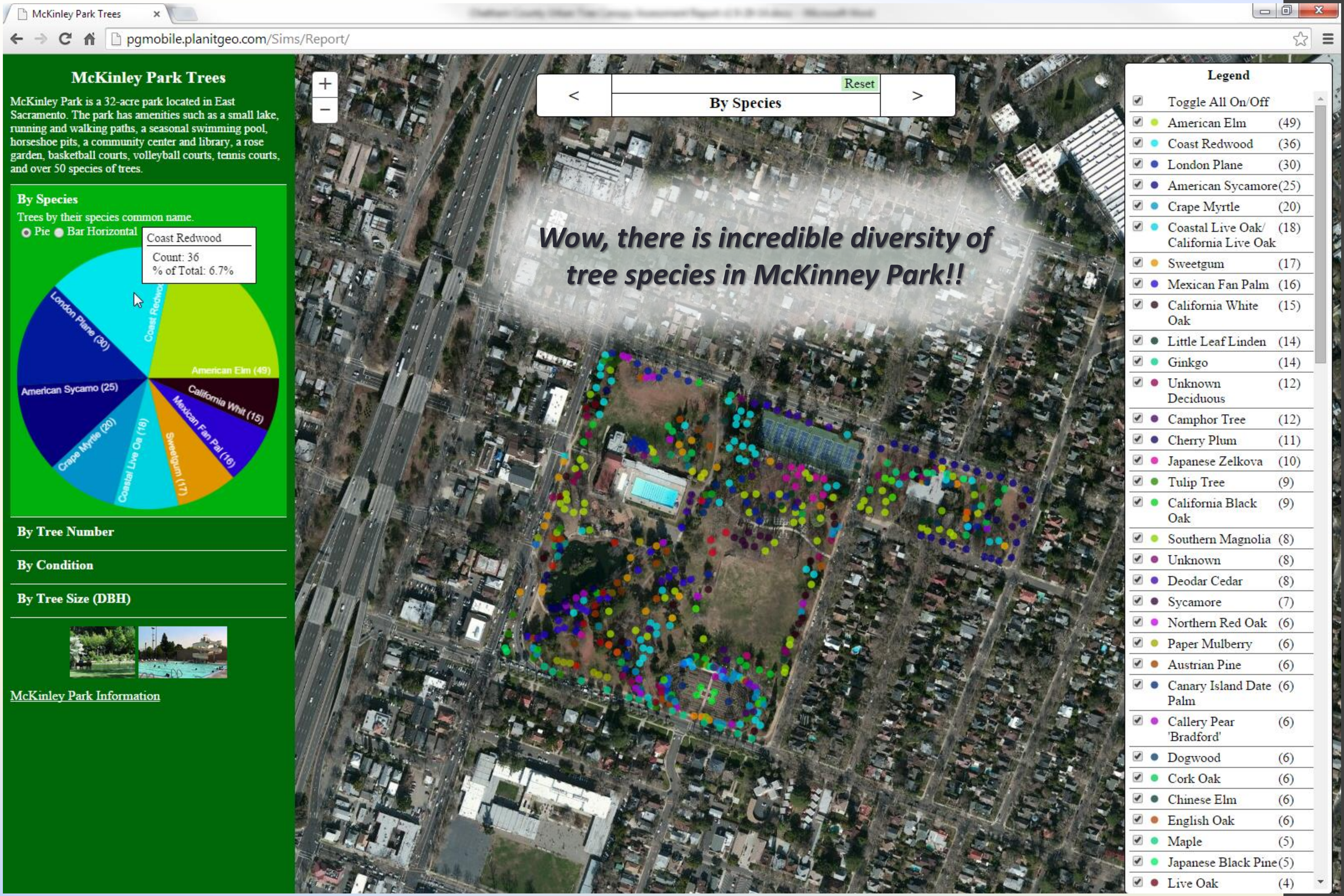
PARK TREE INVENTORY: WEB-BASED REPORTING



McKinley Park Trees
pgmobile.planitgeo.com/Sims/Report/
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Reset
By Species
>
Coast Redwo
American Elm (49)
California Whit (15)
Mexican Fan Pal (16)
Sweetgum (17)
Coastal Live Oa (18)
Crape Myrtle (20)
American Sycamo (25)
London Plane (30)
By Tree Number
By Condition
By Tree Size (DBH)

McKinley Park Trees

McKinley Park is a 32-acre park located in East Sacramento. The park has amenities such as a small lake, running and walking paths, a seasonal swimming pool, horseshoe pits, a community center and library, a rose garden, basketball courts, volleyball courts, tennis courts, and over 50 species of trees.

By Species

Trees by their species common name.

● Pie ● Bar Horizontal

Coast Redwood
Count: 36
% of Total: 6.7%

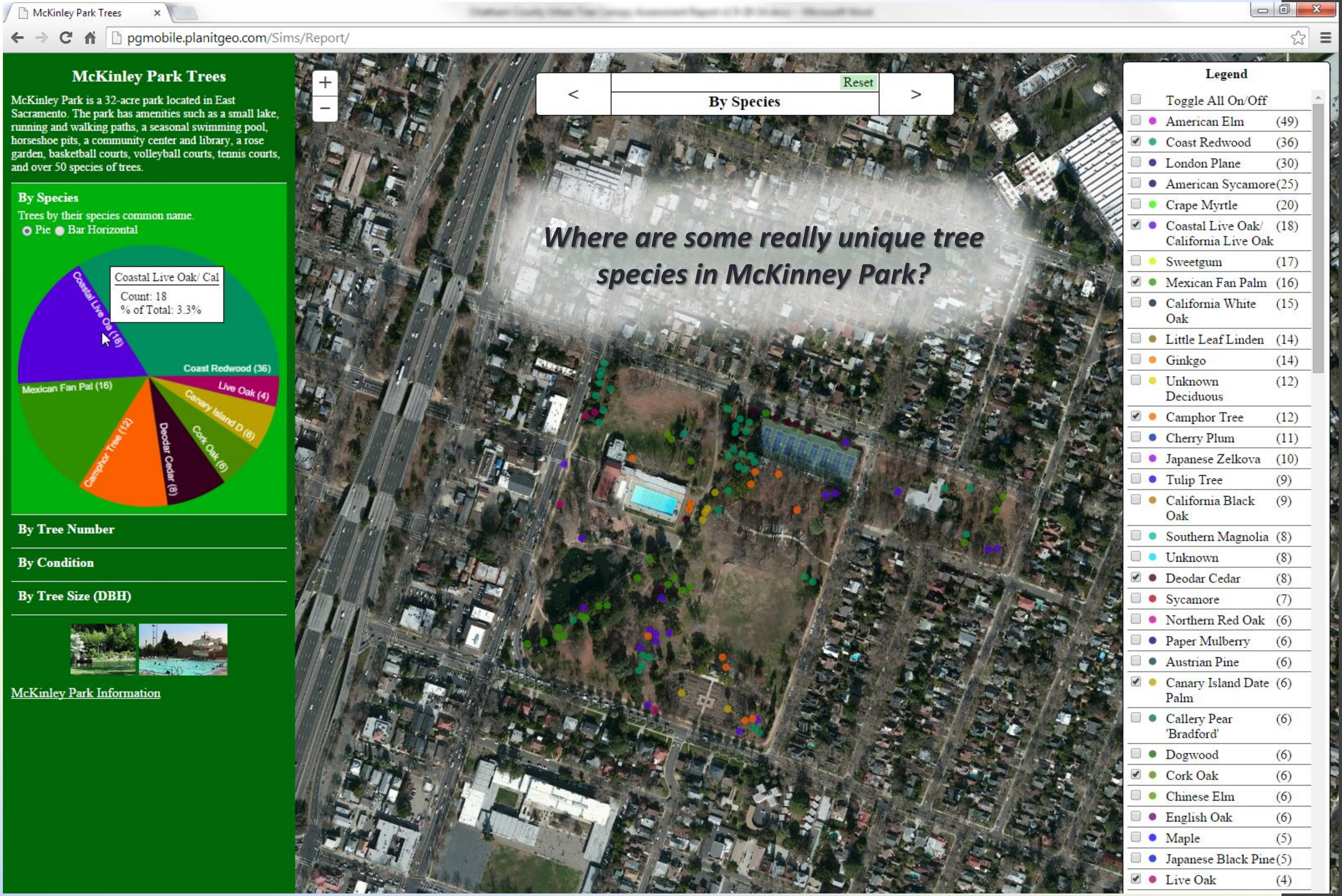
McKinley Park Information

Wow, there is incredible diversity of tree species in McKinney Park!!

Legend

☑	Toggle All On/Off	
☑ ●	American Elm	(49)
☑ ●	Coast Redwood	(36)
☑ ●	London Plane	(30)
☑ ●	American Sycamore	(25)
☑ ●	Crape Myrtle	(20)
☑ ●	Coastal Live Oak/ California Live Oak	(18)
☑ ●	Sweetgum	(17)
☑ ●	Mexican Fan Palm	(16)
☑ ●	California White Oak	(15)
☑ ●	Little Leaf Linden	(14)
☑ ●	Ginkgo	(14)
☑ ●	Unknown Deciduous	(12)
☑ ●	Camphor Tree	(12)
☑ ●	Cherry Plum	(11)
☑ ●	Japanese Zelkova	(10)
☑ ●	Tulip Tree	(9)
☑ ●	California Black Oak	(9)
☑ ●	Southern Magnolia	(8)
☑ ●	Unknown	(8)
☑ ●	Deodar Cedar	(8)
☑ ●	Sycamore	(7)
☑ ●	Northern Red Oak	(6)
☑ ●	Paper Mulberry	(6)
☑ ●	Austrian Pine	(6)
☑ ●	Canary Island Date Palm	(6)
☑ ●	Callery Pear 'Bradford'	(6)
☑ ●	Dogwood	(6)
☑ ●	Cork Oak	(6)
☑ ●	Chinese Elm	(6)
☑ ●	English Oak	(6)
☑ ●	Maple	(5)
☑ ●	Japanese Black Pine	(5)
☑ ●	Live Oak	(4)

PARK TREE INVENTORY: WEB-BASED REPORTING


McKinley Park Trees
pgmobile.planitgeo.com/Sims/Report/
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By Species
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Coastal Live Oa (18)
Coast Redwood (36)
Live Oak (4)
Canary Island D (6)
Cork Oak (6)
Deodar Cedar (8)
Camphor Tree (12)
Mexican Fan Pal (16)

McKinley Park Trees

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By Species

Trees by their species common name.

● Pie ○ Bar Horizontal

Coastal Live Oak/ Cal
Count: 18
% of Total: 3.3%

By Tree Number

By Condition

By Tree Size (DBH)

McKinley Park Information

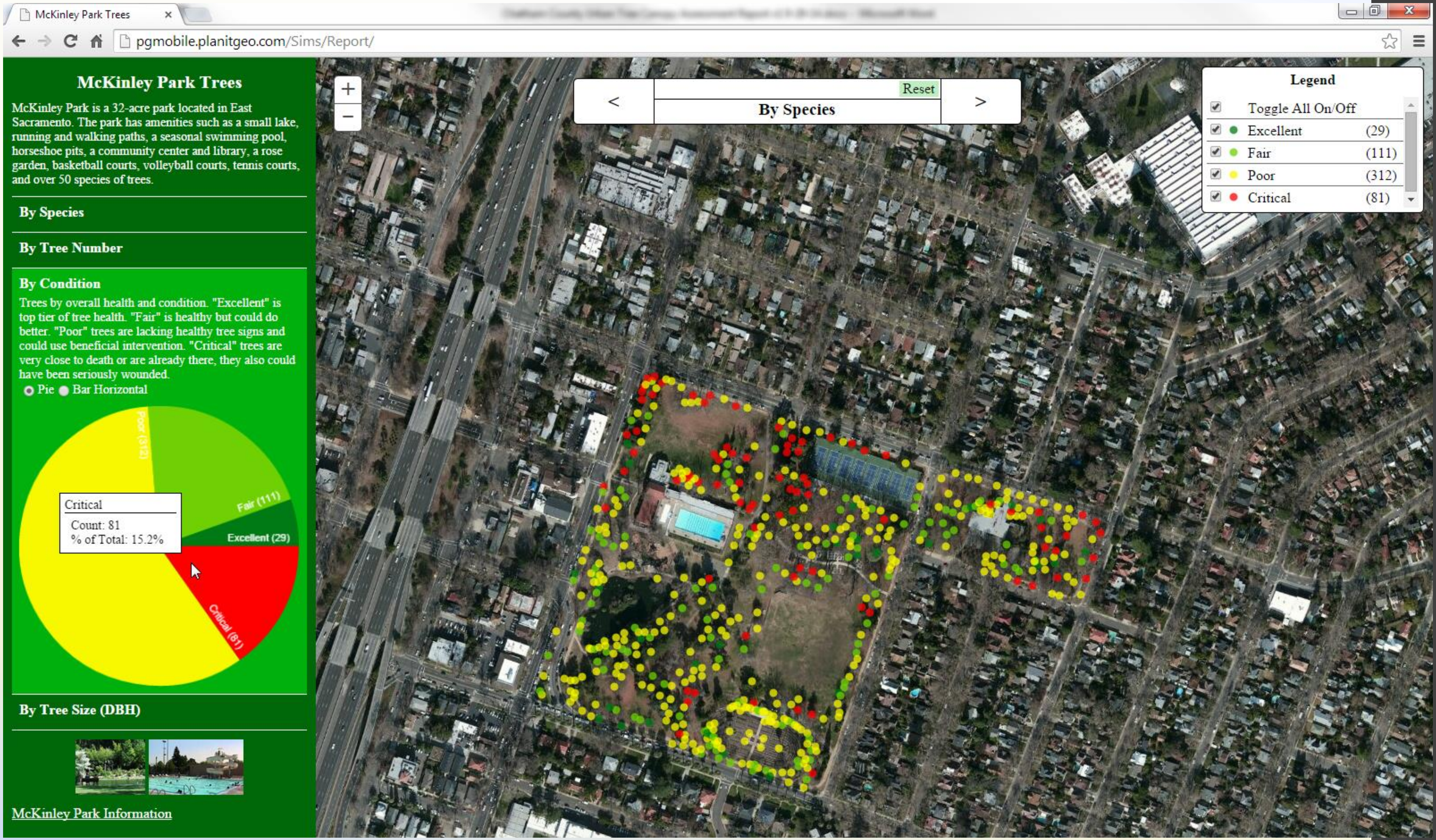
Where are some really unique tree species in McKinney Park?

Legend

☐		Toggle All On/Off	
☐	●	American Elm	(49)
☑	●	Coast Redwood	(36)
☐	●	London Plane	(30)
☐	●	American Sycamore	(25)
☐	●	Crape Myrtle	(20)
☑	●	Coastal Live Oak/ California Live Oak	(18)
☐	●	Sweetgum	(17)
☑	●	Mexican Fan Palm	(16)
☐	●	California White Oak	(15)
☐	●	Little Leaf Linden	(14)
☐	●	Ginkgo	(14)
☐	●	Unknown Deciduous	(12)
☑	●	Camphor Tree	(12)
☐	●	Cherry Plum	(11)
☐	●	Japanese Zelkova	(10)
☐	●	Tulip Tree	(9)
☐	●	California Black Oak	(9)
☐	●	Southern Magnolia	(8)
☐	●	Unknown	(8)
☑	●	Deodar Cedar	(8)
☐	●	Sycamore	(7)
☐	●	Northern Red Oak	(6)
☐	●	Paper Mulberry	(6)
☐	●	Austrian Pine	(6)
☑	●	Canary Island Date Palm	(6)
☐	●	Callery Pear 'Bradford'	(6)
☐	●	Dogwood	(6)
☑	●	Cork Oak	(6)
☐	●	Chinese Elm	(6)
☐	●	English Oak	(6)
☐	●	Maple	(5)
☐	●	Japanese Black Pine	(5)
☑	●	Live Oak	(4)

PARK TREE INVENTORY: WEB-BASED REPORTING

What's the Condition of trees in McKinley Park, and how many??


McKinley Park Trees
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By Species
>
Poor (312)
Fair (111)
Excellent (29)
Critical (81)

McKinley Park Trees

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By Species

By Tree Number

By Condition

Trees by overall health and condition. "Excellent" is top tier of tree health. "Fair" is healthy but could do better. "Poor" trees are lacking healthy tree signs and could use beneficial intervention. "Critical" trees are very close to death or are already there, they also could have been seriously wounded.

● Pie ○ Bar Horizontal

Critical
Count: 81
% of Total: 15.2%

By Tree Size (DBH)

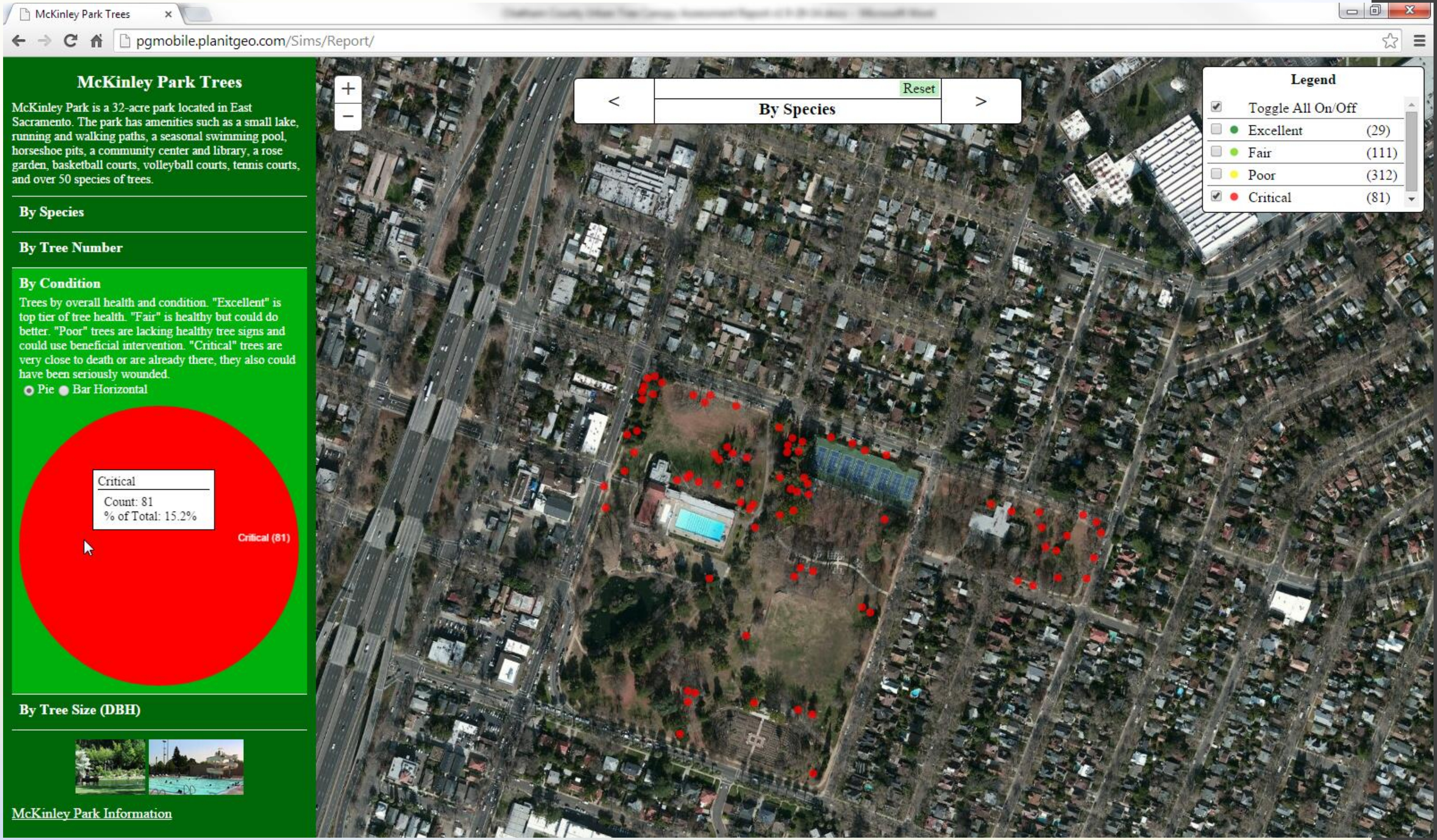
McKinley Park Information

Legend

☑	Toggle All On/Off	
☑	● Excellent	(29)
☑	● Fair	(111)
☑	● Poor	(312)
☑	● Critical	(81)

PARK TREE INVENTORY: WEB-BASED REPORTING

Where are there trees in Critical Condition in McKinley Park, and how many??


McKinley Park Trees
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Reset
By Species
>
Critical (81)
McKinley Park Information

McKinley Park Trees

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By Species

By Tree Number

By Condition

Trees by overall health and condition. "Excellent" is top tier of tree health. "Fair" is healthy but could do better. "Poor" trees are lacking healthy tree signs and could use beneficial intervention. "Critical" trees are very close to death or are already there, they also could have been seriously wounded.

● Pie ○ Bar Horizontal

Critical
Count: 81
% of Total: 15.2%

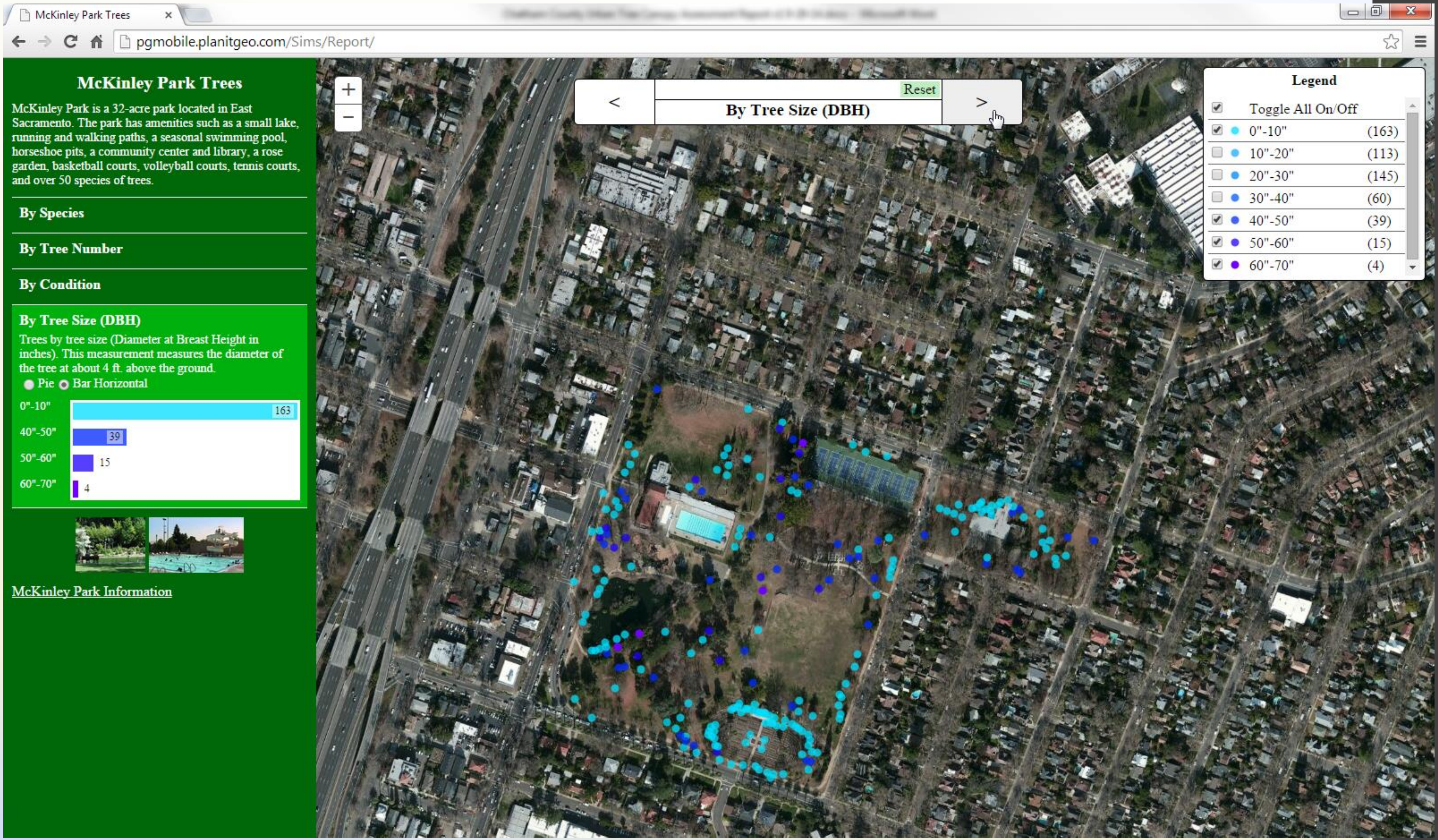
By Tree Size (DBH)

Legend

☑ Toggle All On/Off
☐ ● Excellent (29)
☐ ● Fair (111)
☐ ● Poor (312)
☑ ● Critical (81)

PARK TREE INVENTORY: WEB-BASED REPORTING

Where are the smallest and largest trees in McKinley Park??


McKinley Park Trees
pgmobile.planitgeo.com/Sims/Report/
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Reset
By Tree Size (DBH)
>

McKinley Park Trees

McKinley Park is a 32-acre park located in East Sacramento. The park has amenities such as a small lake, running and walking paths, a seasonal swimming pool, horseshoe pits, a community center and library, a rose garden, basketball courts, volleyball courts, tennis courts, and over 50 species of trees.

By Species

By Tree Number

By Condition

By Tree Size (DBH)

Trees by tree size (Diameter at Breast Height in inches). This measurement measures the diameter of the tree at about 4 ft. above the ground.

○ Pie ● Bar Horizontal

0"-10" 163
40"-50" 39
50"-60" 15
60"-70" 4

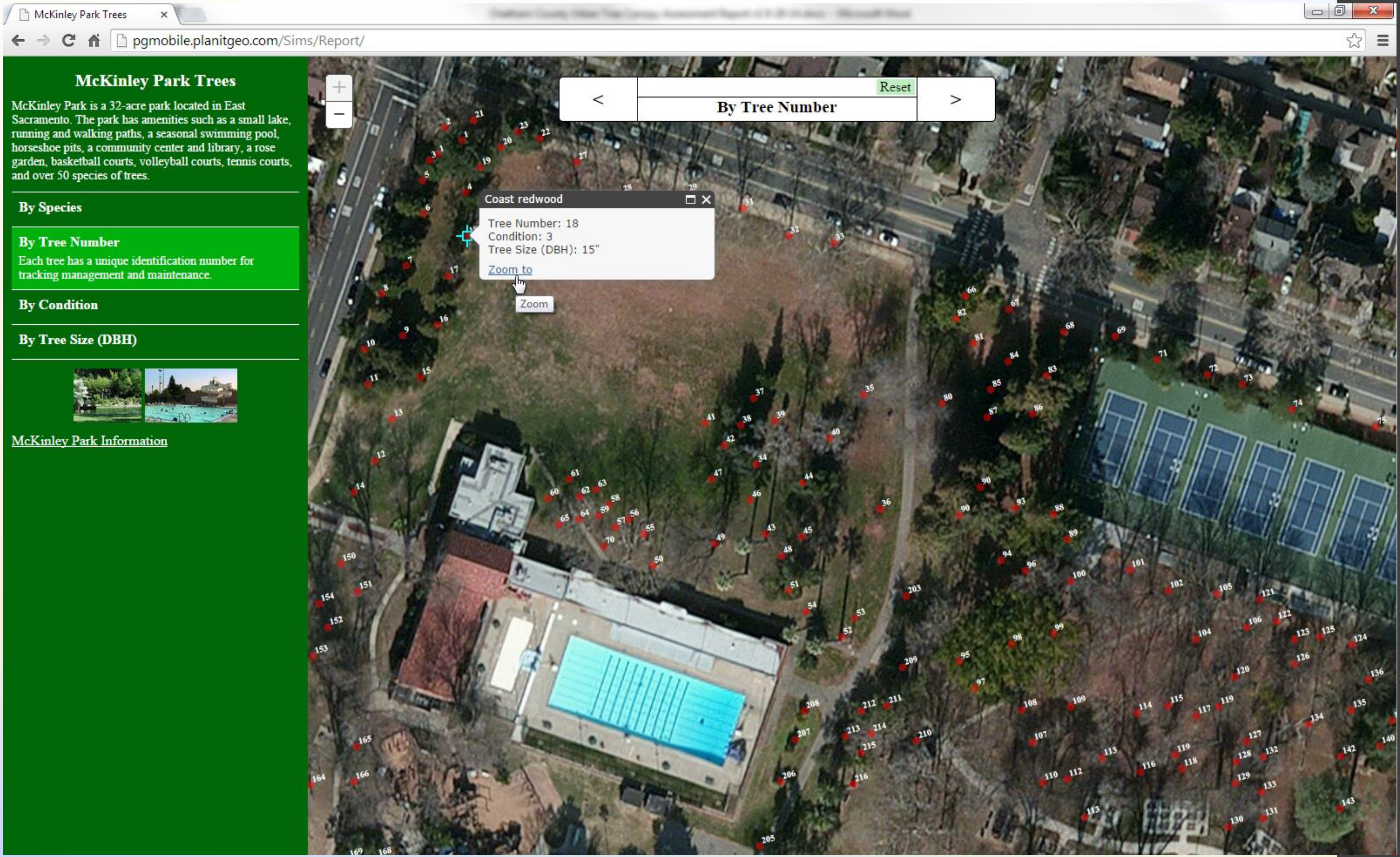
McKinley Park Information

Legend

☑	Toggle All On/Off	
☑	0"-10"	(163)
☐	10"-20"	(113)
☐	20"-30"	(145)
☐	30"-40"	(60)
☑	40"-50"	(39)
☑	50"-60"	(15)
☑	60"-70"	(4)

PARK TREE INVENTORY: WEB-BASED REPORTING

Track trees by their ID number. Click on a tree to learn more.


McKinley Park Trees
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Reset
By Tree Number
>
Zoom

McKinley Park Trees

McKinley Park is a 32-acre park located in East Sacramento. The park has amenities such as a small lake, running and walking paths, a seasonal swimming pool, horseshoe pits, a community center and library, a rose garden, basketball courts, volleyball courts, tennis courts, and over 50 species of trees.

By Species

By Tree Number

Each tree has a unique identification number for tracking management and maintenance.

By Condition

By Tree Size (DBH)

McKinley Park Information

Coast redwood

Tree Number: 18
Condition: 3
Tree Size (DBH): 15"

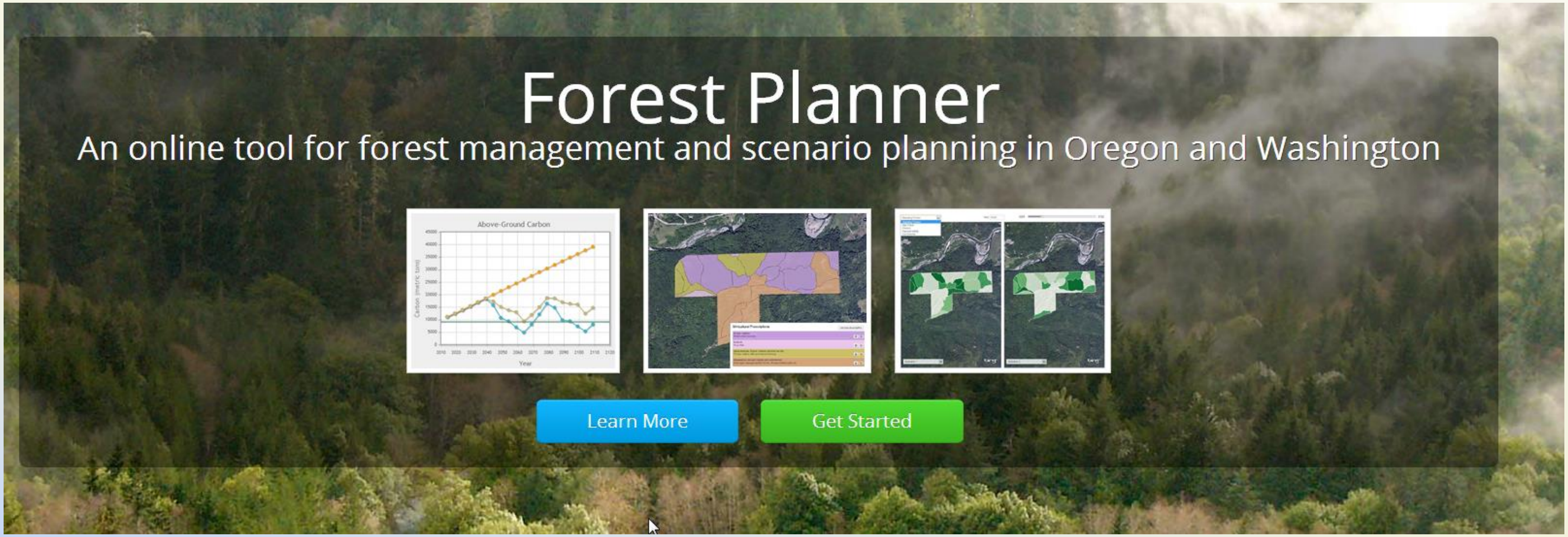
Zoom to

14

FOREST PLANNER (ECOTRUST)

http://forestplanner.ecotrust.org

- Visualize harvest schemes that deliver different returns — timber yields and ecosystem services such as carbon storage/sequestration and habitat
- Step-by-step examples on next slides
- Videos at http://vimeo.com/m/ecotrust

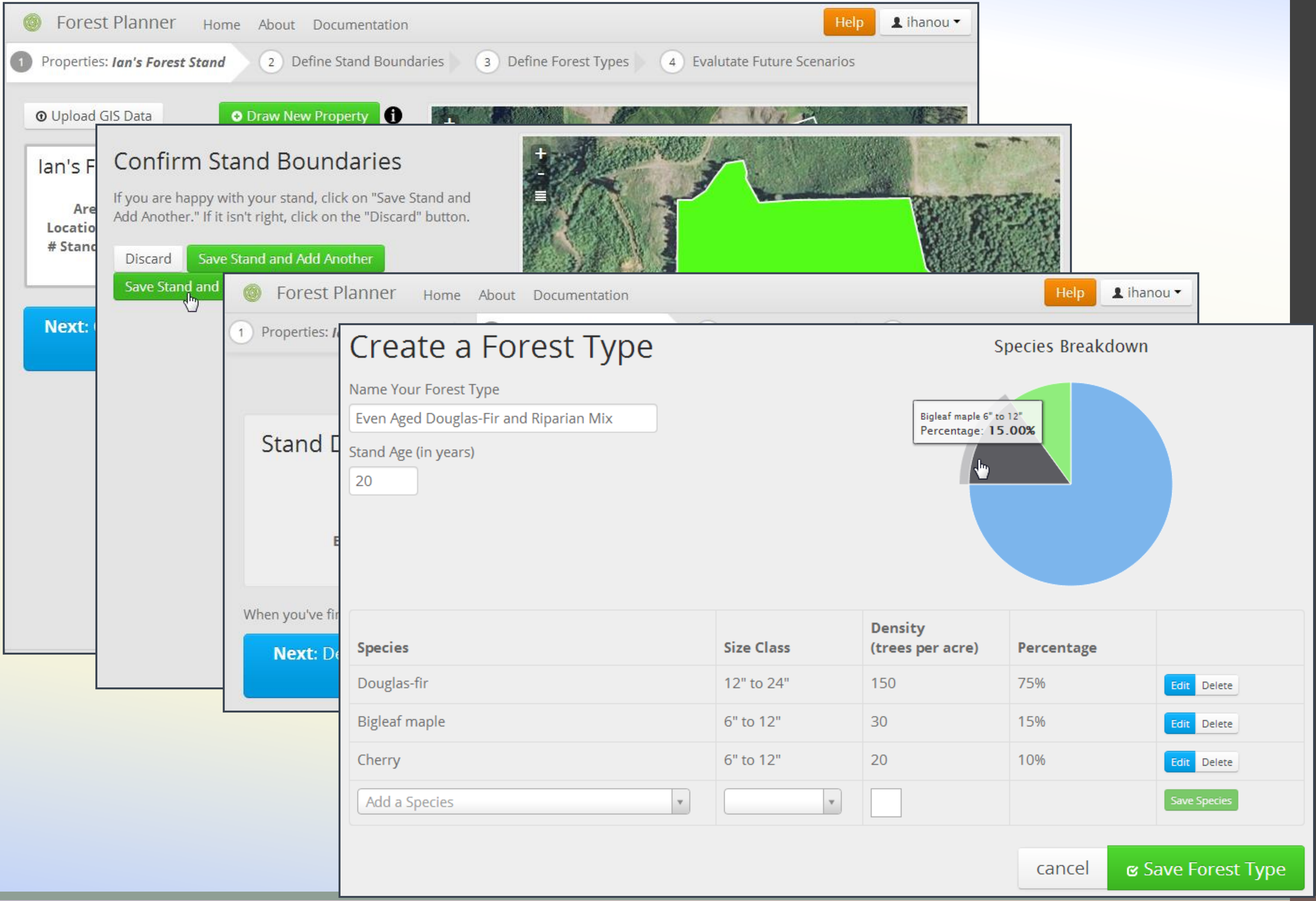


Forest Planner

An online tool for forest management and scenario planning in Oregon and Washington

14

FOREST PLANNER (ECOTRUST)


Forest Planner
Home
About
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Help
ihanou
1 Properties: *Ian's Forest Stand*
2 Define Stand Boundaries
3 Define Forest Types
4 Evalutate Future Scenarios
Upload GIS Data
Draw New Property
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Save Stand and Add Another
Save Stand and
Forest Planner
Home
About
Documentation
Help
ihanou
1 Properties:
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Species Breakdown
Bigleaf maple 6" to 12"
Percentage: 15.00%

Confirm Stand Boundaries

If you are happy with your stand, click on "Save Stand and Add Another." If it isn't right, click on the "Discard" button.

Create a Forest Type

Name Your Forest Type: Even Aged Douglas-Fir and Riparian Mix

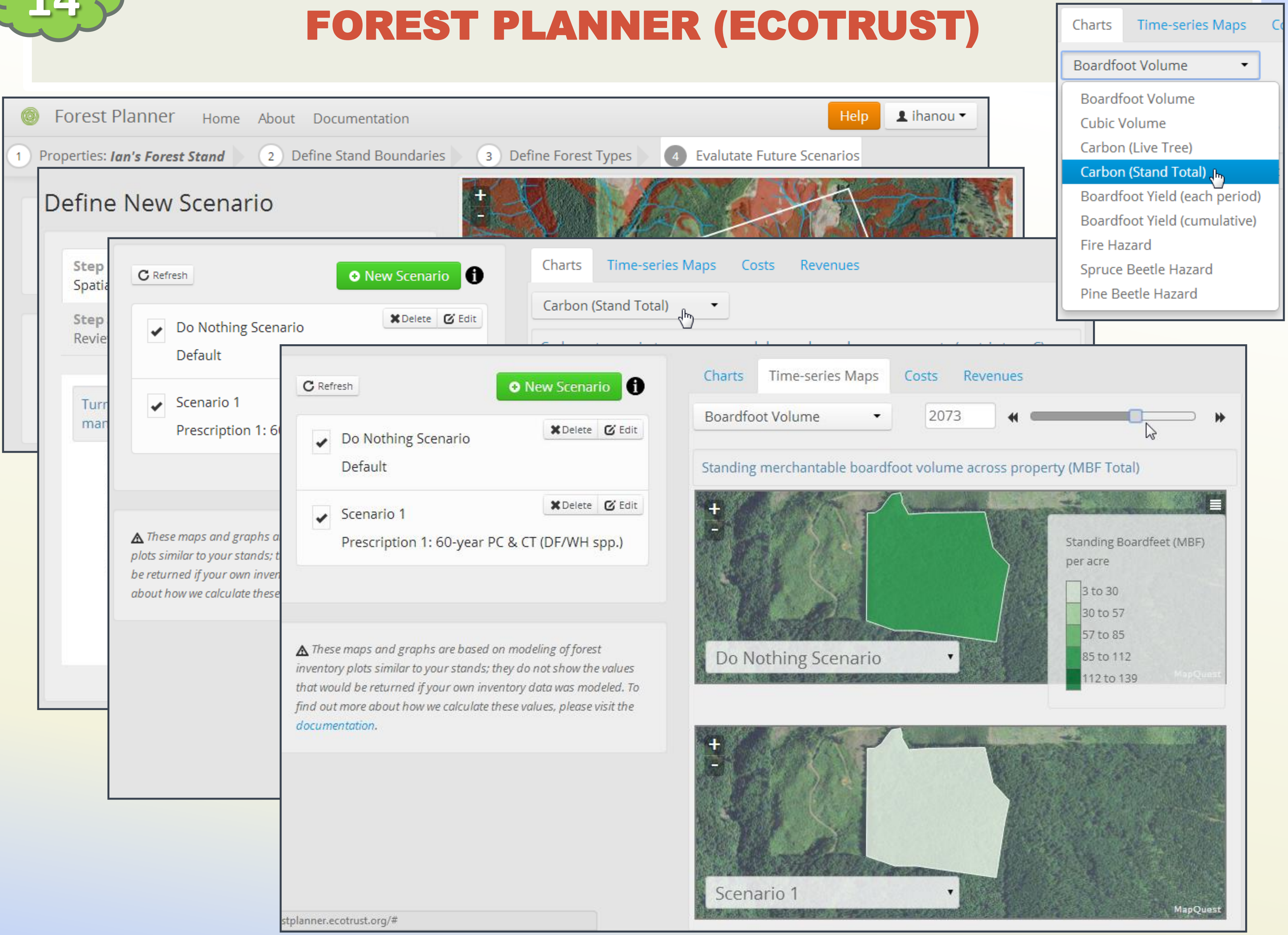
Stand Age (in years): 20

Species	Size Class	Density (trees per acre)	Percentage	
Douglas-fir	12" to 24"	150	75%	Edit Delete
Bigleaf maple	6" to 12"	30	15%	Edit Delete
Cherry	6" to 12"	20	10%	Edit Delete
Add a Species				Save Species

cancel | Save Forest Type

14

FOREST PLANNER (ECOTRUST)


Forest Planner
Home
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Help
ihanou
1 Properties: Ian's Forest Stand
2 Define Stand Boundaries
3 Define Forest Types
4 Evalutate Future Scenarios
Define New Scenario
Refresh
New Scenario
Delete
Edit
Charts
Time-series Maps
Costs
Revenues
Boardfoot Volume
Cubic Volume
Carbon (Live Tree)
Carbon (Stand Total)
Boardfoot Yield (each period)
Boardfoot Yield (cumulative)
Fire Hazard
Spruce Beetle Hazard
Pine Beetle Hazard
2073
MapQuest
stplanner.ecotrust.org/#

Do Nothing Scenario
Default

Scenario 1
Prescription 1: 60-year PC & CT (DF/WH spp.)

Standing merchantable boardfoot volume across property (MBF Total)

Standing Boardfeet (MBF) per acre

- 3 to 30
- 30 to 57
- 57 to 85
- 85 to 112
- 112 to 139

Do Nothing Scenario

Scenario 1

These maps and graphs are based on modeling of forest inventory plots similar to your stands; they do not show the values that would be returned if your own inventory data was modeled. To find out more about how we calculate these values, please visit the documentation.

THANK YOU - CONTACT US

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plan-it GEO

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