Welcome!

UFMP Kick Off Event

December 14, 2022, 5:30-7:00 p.m.

AGENDA

Welcome (10 mins.)
How We Got Here (20 mins.)
UFMP Process (15 mins.)
Results in Other Cities (20 mins.)
Q&A (15 mins.)



KnoxvilleTreePlan.org







How We Got Here

Path leading up to this urban forest master plan







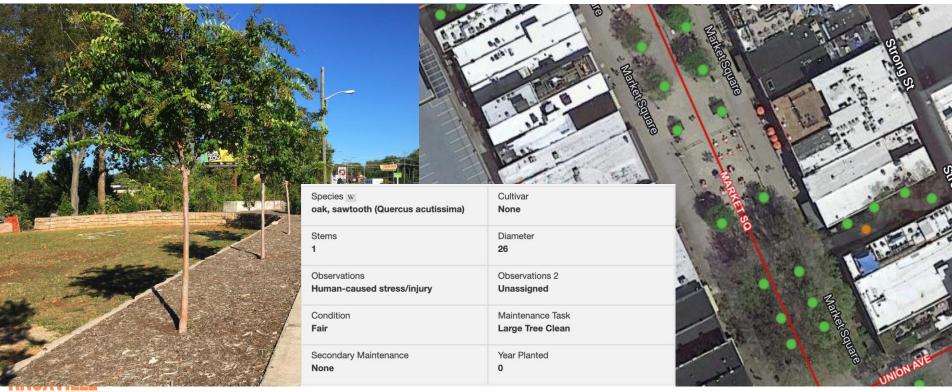
2011 Tree Inventory and Management Plan







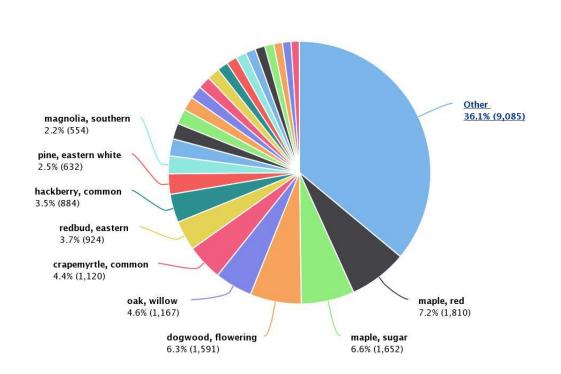
Over 100,000 Trees in Inventory



URBAN FOREST MASTER PLAN

Diversity of Public Tree in Knoxville

Count per (Common) Species

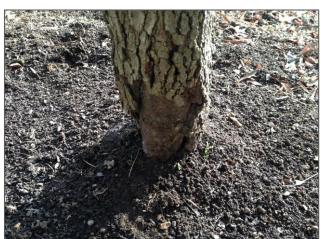




City Urban Forestry Program Progresses



Overhauled our planting contract, education, developed a pruning cycle, volcano mulching, updated tree protection ordinance, outreach, etc.









Where City Resources Go



1,000 miles of Streets in Knoxville composed of mostly private trees









Parks, Natural Areas, and "Urban Wilderness"

Years of remaking green space in Knoxville into <u>strong</u> environmental, economic, and social amenities.





Welcome Trees Knoxville in 2015



Tree Canopy Partner- Bridge between Public and Private Stakeholders





How We Got Here

2020 Urban Tree Canopy Study











2020 Urban Tree Canopy Study Partners















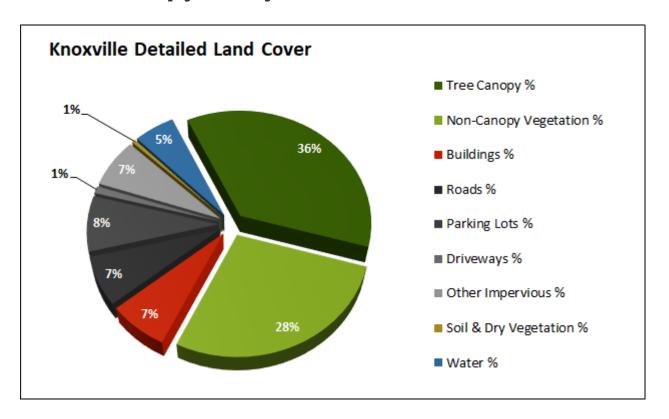
Mapping of 5 Land Cover Types

- 1. Tree Cover
- 2. Other Green Space
- 3. Impervious Surfaces
 - a. Buildings
 - b. Paved surfaces
- 4. Bare Ground
- 5. Water





Results





Study Broke the City into Smaller Geographies

- City of Knoxville
- City Council Districts
- Watersheds
- Neighborhoods
- Census Tracts
- Census Blocks

- City of Knoxville Maintenance Zones
- City of Knoxville Zoning
- 100 ft. Stream Buffer
- Street and Highway Right-of-way
- City Parks and Public Spaces

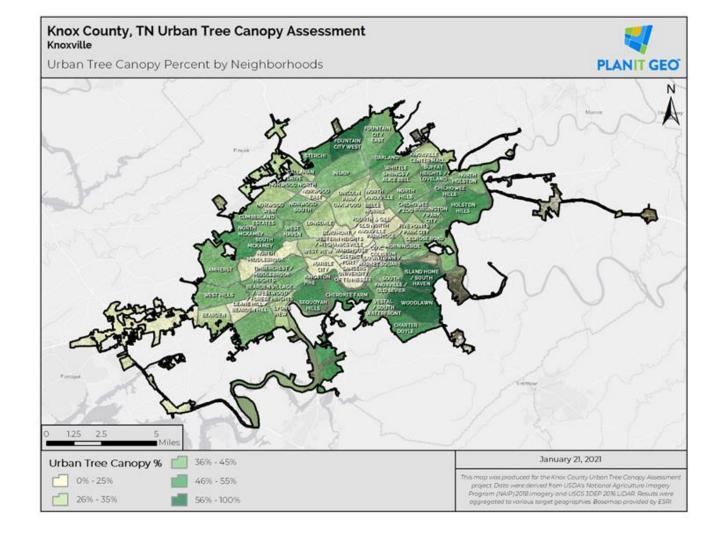






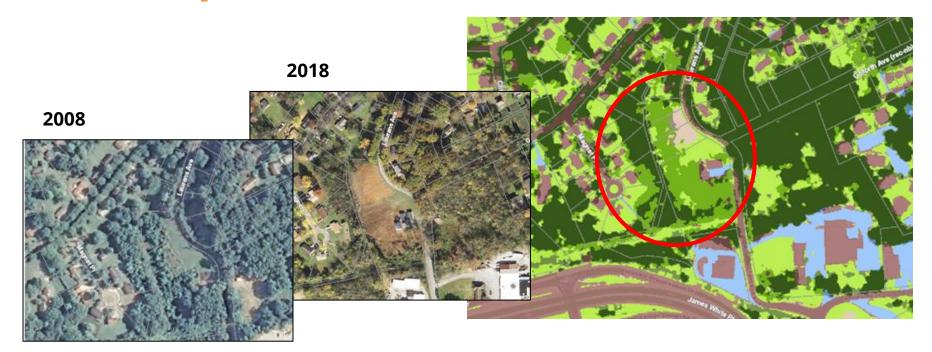


Study Broke the City into Smaller Geographies



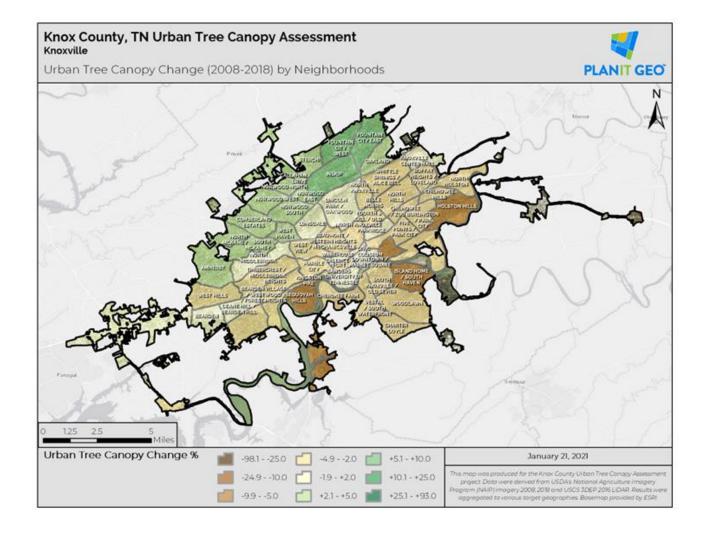


Also looked at Changes in Tree Cover from 2008 to 2018





Example Findings: Change in Tree Canopy by Neighborhood

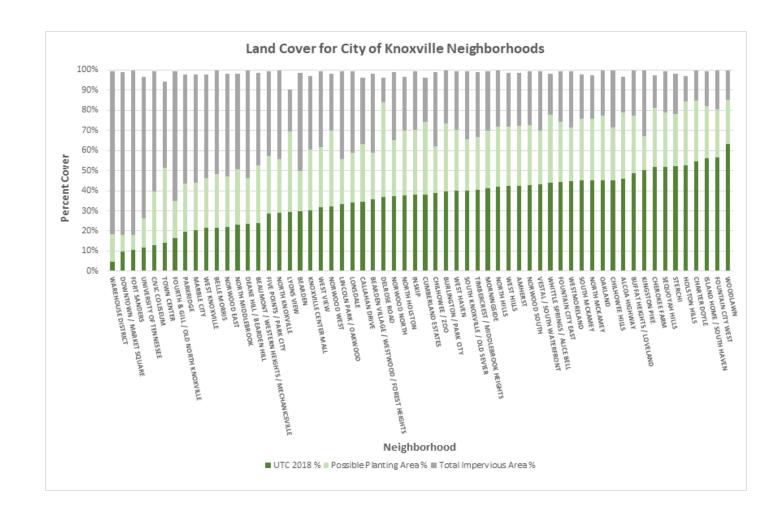




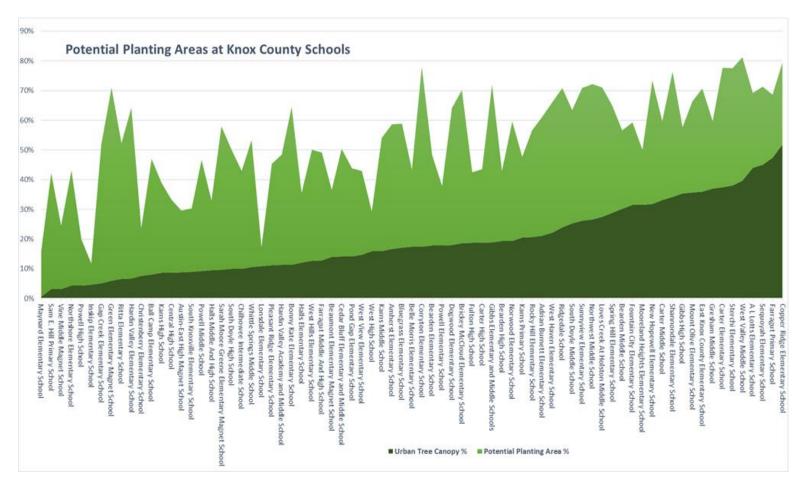
Example Findings: Available Planting by Census Blocks











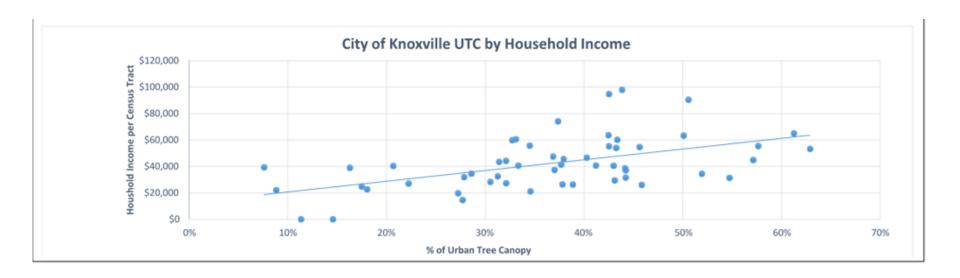


Example Findings: City of Knoxville Zoning

Zoning Type	Total Area (Acres)	UTC 2008 (Acres)	UTC 2018 (Acres)	UTC Change (Acres)	% UTC	% UTC Change	Impervious Area (Acres)	% Impervious	PPA (Acres)	% PPA
Agricultural	2,504	1,197	1,162	-35	46%	-1%	147	6%	1,042	42%
Commercial	7,146	1,504	1,508	4	21%	0%	3,967	56%	1,603	22%
Cumberland	32	3	2	-1	6%	-2%	29	91%	1	3%
Downtown	245	17	19	2	8%	1%	211	86%	15	6%
Industrial	5,313	1,289	1,243	-46	23%	-1%	2,679	50%	1,299	24%
Institutional	2,074	411	411	0	20%	0%	963	46%	573	28%
Open Space/ Natural Area	5,022	2,983	2,862	-121	57%	-2%	370	7%	1,499	30%
Residential	29,114	14,987	14,472	-515	50%	-2%	5,490	19%	8,984	31%
ROW	11,434	2,544	2,515	-29	22%	0%	6,050	53%	2,813	25%
South Waterfront	229	67	52	-14	23%	-6%	118	51%	59	26%
Citywide	63,114	25,002	24,246	-756	38%	-1%	20,023	32%	17,887	28%



Example Findings: Census Data





2023 Urban Forest Master Plan

Process of Funding and Hiring Consultant

- City and Mayor budgeted Urban Forest Master Plan for 2022-2023 Fiscal Year
- 2. Trees Knoxville raises funds, and put out Requests for Proposals In July 2022
 - a. Funding from City, State, KUB, and Local Organizations
 - b. Still bringing partners together
- 3. Selection Committee formed and selected a Consultant in October 2022 (City, Trees Knoxville, KUB, City Tree Board, Knoxville Knox County Planning) from 7 different proposals.
- 4. Project Kick-off December 2022





What Does This Mean for My Community

Neighborhood 1







What Does This Mean for My Community

Neighborhood 2







What Does This Mean for My Community

Neighborhood 3









UFMP Process

Process to develop Knoxville's urban forest master plan



Urban Canopy Works





Strategic planning (UF Master Plans)

Tree canopy assessments

Existing conditions analysis

Public engagement

Existing policy/plan/code reviews





Municipal Services

City arborist services

Code/regulation reviews

Operations analysis

Urban Tree Canopy (UTC) assessments

Special Projects (tree planting contract management, planting plan design, inventories, more)



urbancanopy

Arboricultural Consulting

Risk assessment (realtors, campuses, other grounds)

Development/Construction Services

Appraisal / Assessment Services

Appraisals for insurance losses (post hurricanes and other storms)

Knoxville Plan

Community Focused

Over 24,000 acres of tree canopy in City of Knoxville (36%)

Over 14,000 acres on private residential land (% of all canopy)

Approximately 75% on privately owned land citywide.













UFMP Process

Three Phases

Phase I: Project

Launch

Phase II: Discovery

Phase III: Plan Development



UFMP Process

Three Phases

Phase I: Project Launch

Phase II: Discovery

Phase III: Plan Development



Phase I: Project Launch

Timeline: November - December 2022

Efforts:

- Project Set Up
- Data Collection
- Project Website KnoxvilleTreePlan.org
- Steering Committee
- Advisory Group
- Kick Off Event



Phase II: Discovery

UFMP Process

Three Phases

Phase I: Project Launch

Phase II: Discovery

Phase III: Plan

Development

Focus:

1. What exists or is in place currently?

Engagement

Advisory Board Workshops

Online community input

Interviews

Open House

Speaking Circuit

2. Where do we want to go?

Timeline: January - June 2022

Research/AnalysisTree canopy trends

City public tree InventoryImpact of climate

Invasives and natives

Planting strategies

Prior urban forest efforts

Broader city plans

Review of City operations - urban forestry

• Review of City policies/code related to trees

Intersections of Trees Knoxville, City and County



Phase III: Plan Development

UFMP Process

Three Phases

Phase I: Project Launch

Phase II: Discovery

Phase III: Plan
Development

Timeline: June-October 2022

Efforts:

- Setting Goals
- Developing Plan
- Review Process
- Final Plan Release



UFMP Process

Your involvement directly informs this plan.

www.KnoxvilleTreePlan.org

PROJECT UPDATES













UFMPs in Other Cities

Insight in UFMP experiences in other communities





Tallahassee

226 square miles, 22% canopy (2013) Number of public trees is unknown

Pre-UFMP

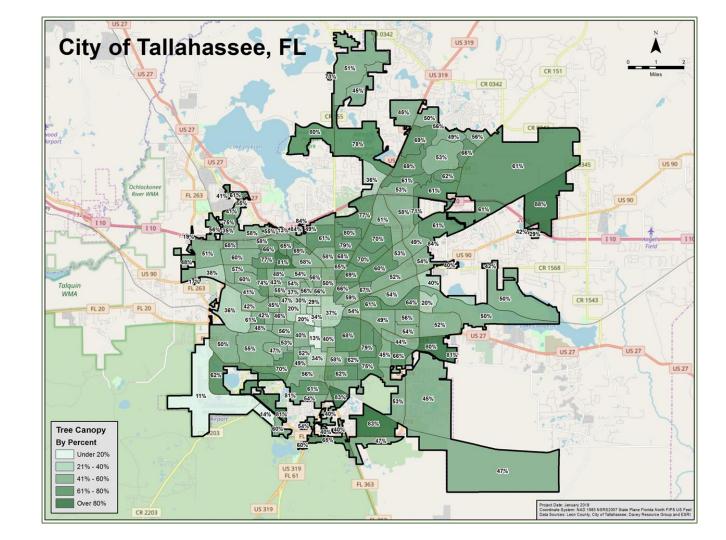
Limited knowledge
Fast growing
Vacant/underutilized
properties in urban core
No NGO partner

Post-UFMP

Clear goals Dedicated funding Progress is measurable

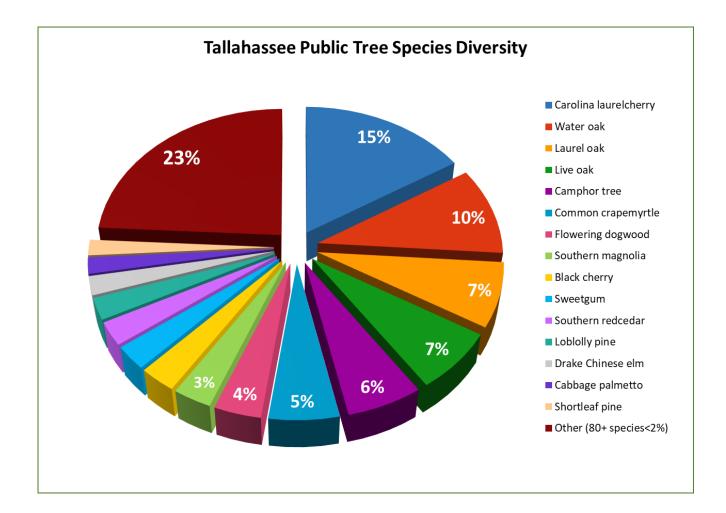


Total Tree Canopy Coverage 55%



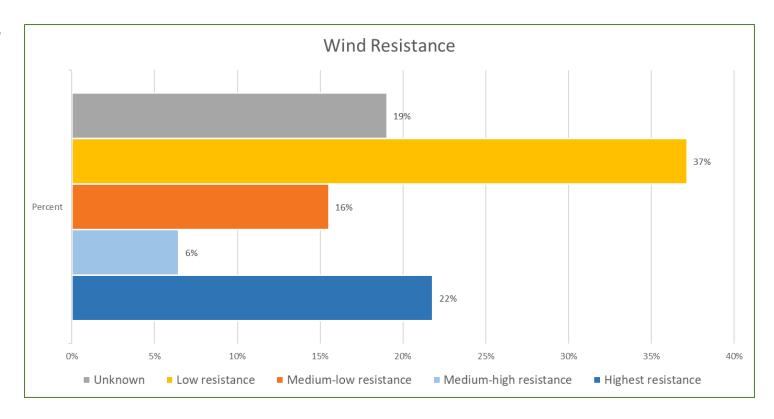


Quality of Canopy





Quality of Canopy





Goals

Goal 1: Improve Canopy Quality

Improve the quality and safety of the urban forest to ensure long-term sustainability

Goal 2: Maintain Canopy Levels

Maintain an extensive tree canopy in balance with growth and change

Goal 3: Engage the Larger Community

Engage and partner with the larger community to support urban forestry efforts



Benchmarks for Progress

Goal 1: Improve Canopy Quality

No single species should make up more than 10% of the urban forest Top 5 species should be wind resistant

Goal 2: Maintain Canopy Levels

Update UTC Assessments every ten years to track canopy levels Targeted opportunities for reforestation

Goal 3: Engage the Larger Community

Track events and engagement of new neighborhoods, large landowners, and community groups

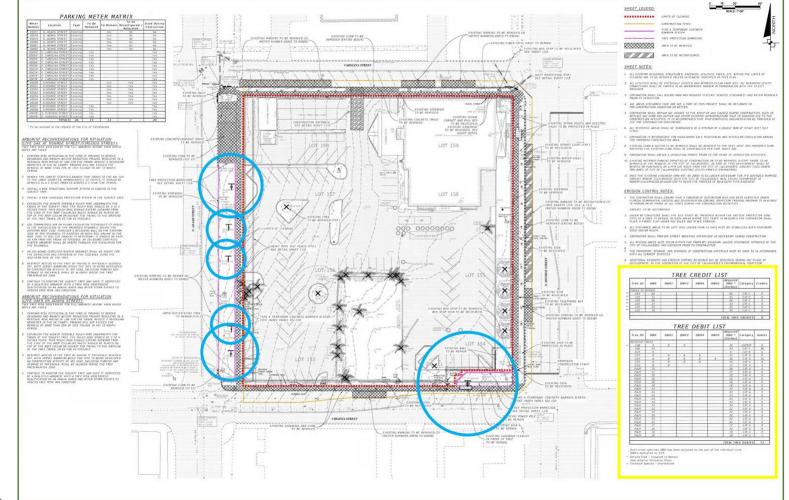


Goal 1: Improve Canopy Quality



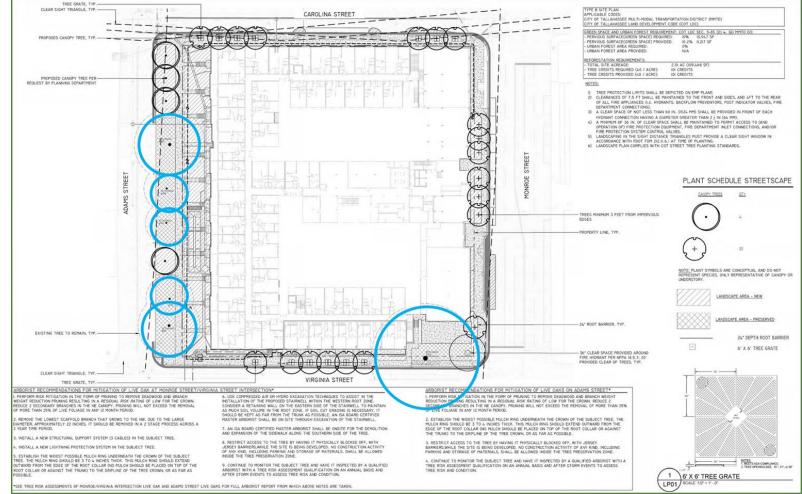


Development Analysis



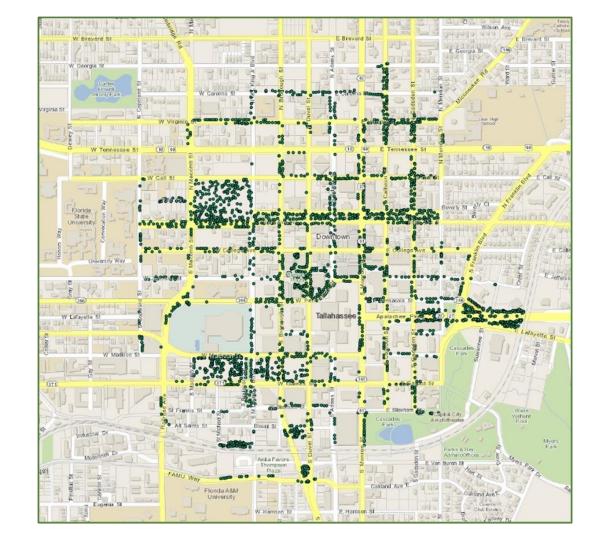


Development Analysis





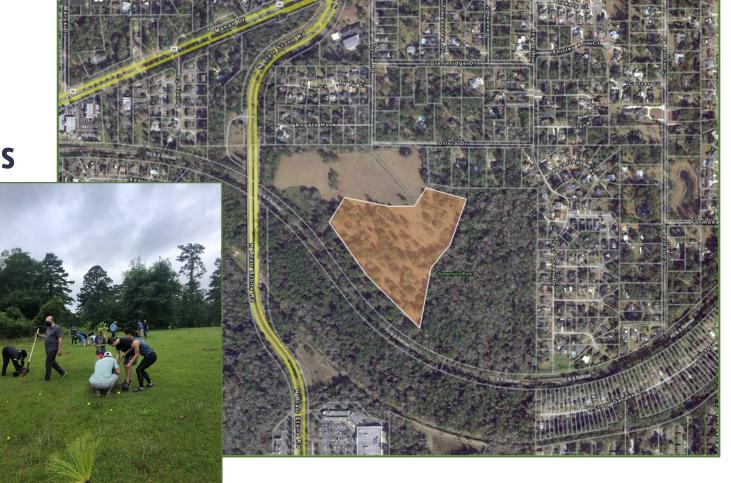
Continue Data Collection





Goal 2: Identify Opportunities

to Expand Canopy





Goal 2: Identify Opportunities to Expand Canopy

Adopt A Tree

2023 Adopt a Tree Program

Every year, the City of Tallahassee provides and plants trees for eligible homeowners, in an effort to increase the urban forest canopy. The trees, depending on the species, are between 5 and 8 feet in height and are species native or cultivars of native species to the southeast. Eligible homeowners living within the City limits may request up to 2 trees to be planted in the front yard within 100' of the centerline of the roadway and agree to keep each tree watered for one (1) year.

Tree species offered this year:



Nuttail Oak is one of the most diverse varieties of the oaks - it works well as a street tree or shade tree, can adapt to wet soils, and tolerate moderate drought conditions. It has a beautiful canopy that changes from yellow to orange to red, displaying those wonderful fall colors! This species is fast growing and can reach upwards of 80 feet at maturity, but the canopy spread stays relatively narrow, only reaching 45 ft max in width.



Pond Cypress is an adaptable and wind-tolerant species features a conical silhouette that loses its needles each winter and grows a new set in the spring. Its foliage begins with a soft, bright green that turns rich shades of orange, red, and golden brown in the fall. This tree is a spectacular feature along pond edges or within rain gardens but can also be grown in dry locations. This tree is virtually maintenance-free, requiring no pruning, and is pest and disease-resistant! This fast-growing canopy tree can reach between 45 to 60 feet at maturity, so it



Goal 3: Focus on Community Concerns







Under-resourced

Limited knowledge **Growing fast**

No NGO partner

Prioritizing trees & equity

Fund proactive care & inventory

UF leadership role

In search of a NGO partner

Pre-UFMP

Post-UFMP





89 square miles, 27% canopy

Equity first

Commitment to community

UF leadership role

Staff up to work w/NGOs

UF leadership role

43,000 street trees (parks - ?)

Under-resourced Infill development pressure Multiple NGOs active

Funding for data, care

Large tree assistance program pilot

https://youtu.be/Qmd-152uzws

Tree canopy policy prominent in

citywide comprehensive plan

Updated development ordinance Looking at role of NGO and City

City initiated NGO

Aging canopy

Growing fast

190.000+ street trees Under-resourced Limited knowledge

Charlotte 312 square miles, 47% canopy













Get Involved!







www.KnoxvilleTreePlan.org

Open house with update on progress and findings - April 2023

