

Denton Tree Management Software

Haywood Morgan, Jr.
Urban Forester
Parks and Recreation
November 12, 2024

ID: COE24-010



What is Tree Canopy Coverage?

 The layer of branches, leaves, and stems of trees that cover the ground when viewed from above.





How Fast does Tree Canopy

Increase?

• 2016 Canopy 0.3%

• 2024 Canopy 3.3%

Potential Canopy

• 21.2%





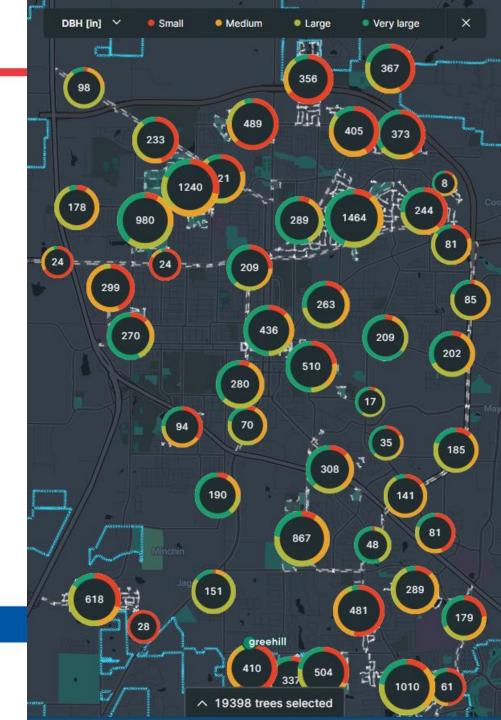
Tree Management Software

- PlanIT Geo 2022-23
 - Tree Canopy Tracking on pause
- greehill 2023-present
 - Public Realm Tree Inventory
- TreeKeeper Coming this Fall/Winter
 - Tree Canopy and Inventory work management
- American Forest Tree Equity Map

11/12/2024



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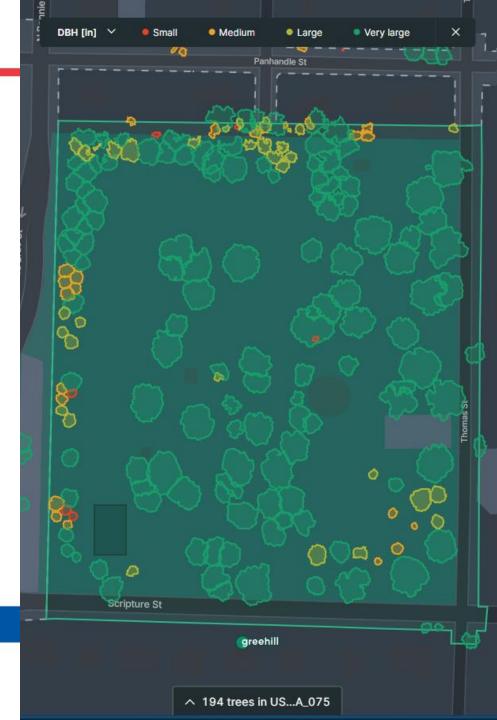


Tree Management Software greehill

- Objective
 - To develop an inventory of trees in maintained areas of parks, city properties and public right-of-way as called for in the 2020 UFMP.



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How was it done?

 Data was captured using sensitive car-mounted
 LiDAR and a highresolution 360° cameras
 to capture every tree.





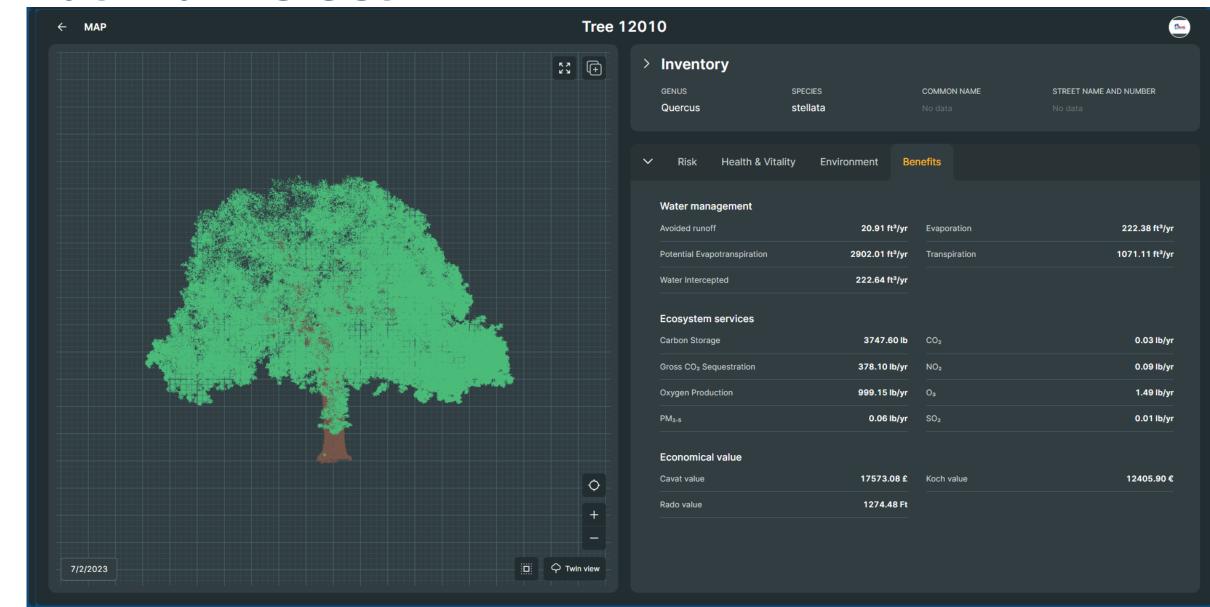
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What Did We Get?

- Improved work management
 - Improved tree health
 - Increased Safety/Reduced liability
- Data driven decision making
- Budgeting
- Guidance on new planting



What Did We Get?



Tree Management Software TreeKeeper

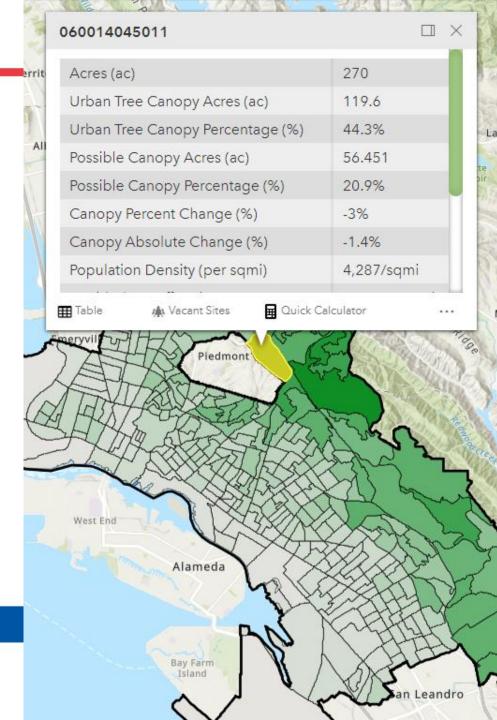
 Companion software to greehill tree inventory software.

11/12/2024

- Tree Inventory Data
- Tree Canopy Data



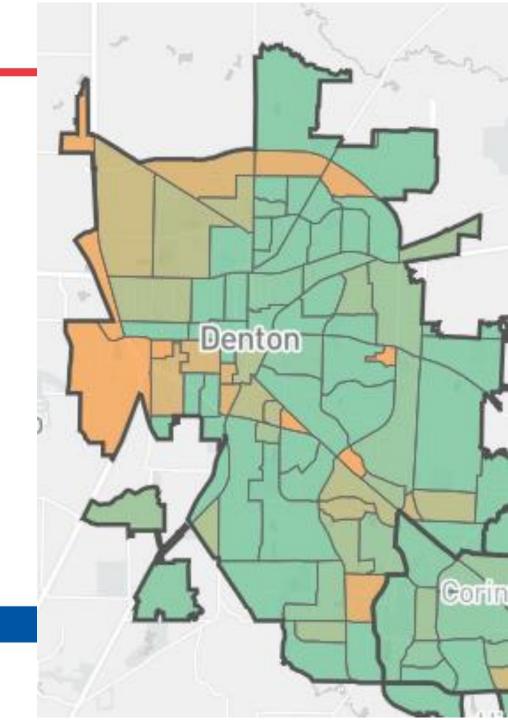
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American Forest – Tree Equity Map

 Tree Equity Score – is a matric that helps cities assess how they are delivering equitable tree canopy cover to all residents.
 It takes into consideration tree canopy, climate, demographic and socioeconomic data.





American Forest – Tree Equity Map

11/12/2024

TARGET SCORE: 80 Target block groups: 17	CURRENT SCORE	SCORE GAIN	CURRENT CANOPY	CANOPY GAIN	TREES NEEDED	POP	POV	POC	UNEMPL	AGE	LANG	HEALTH	HEAT
BG 481210212031	44	+36	7.1%	+14.6%	652	1,256	74%	60%	30%	48%	8%	64	+4.4°F
BG 481210213011	61	+19	9.1%	+10.0%	453	961	55%	66%	0%	13%	10%	56	+8.0°F
BG 481210203102	62	+18	3.2%	+12.4%	2,665	1,221	21%	12%	3%	44%	0%	50	-3.3°F
BG 481210208002	64	+16	10.0%	+8.7%	8,812	1,768	71%	34%	12%	9%	5%	67	+5.6°F
BG 481210209002	66	+14	13.2%	+6.6%	356	2,624	80%	59%	9%	9%	9%	56	+7.7°F
BG 481210212043	69	+11	10.7%	+6.6%	387	1,108	75%	47%	2%	3%	0%	64	+4.3°F
BG 481210204051	71	+9	8.0%	+6.5%	6,563	2,001	25%	19%	9%	30%	2%	48	-0.1°F



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5-Year Planting	Plan Draft
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- Focuses on areas near pavement (street, parking lots and paved trails)
- Plants and irrigates 1322 tree
- Replaces 262 trees

Locaiton	Year	Number of Trees
Five-Year Tree Planting Plan 2024-25		
1	'	

		ľ
Locaiton	Year	Number of Trees
Mayhill Rd South of McKinney	2027-28	150
Bell Ave TWU	2027-28	40
North Lakes Park Soccer	2027-28	35
Paisley & Audra (2" cal)	2027-28	19
Mac Park South	2027-28	14
Patrick Park (2" Arbor Day)	2027-28	19
Tree Replacement	2027-28	50
Total		327
Five-Year Tree Planting Plan 2028-29		
Mayhill Rd North of McKinney	2028-29	150
San Jacinto Blvd	2028-29	19
Lake Forest Park II (2" cal. Arborday)	2028-29	26
Linda McNatt Entrance	2028-29	22
South Lakes Trail West Section 6	2028-29	23
South Lakes Trail West Section 5	2028-29	17
Bonnie Brae II	2027-28	8
Windsor Dr NL	2028-29	6
Tree Replacement	2028-29	50
Total		321
TYTHUSOL DE HE (HOLDESINE OF TA)	12020-21	
0 Hurcules Ln	2026-27	15
		1

2026-27

2026-27

2026-27

20

50

345



Mac Park N

Total

Tree Replacement

Fred Moore Park (2"cal. Arbor Day)

Questions?

Haywood Morgan, Jr Urban Forester Parks and Recreation

