

# City of Sacramento Urban Forest Master Plan

Stakeholder Representative Group  
(SRG)  
Meeting #1

*City of*  
**SACRAMENTO**

**DAVEY**   
**Resource Group**



# Urban Forest Master Plan



# Process

- ▶ Assess
  - ▶ Resource Analysis
  - ▶ Historic Analysis
- ▶ Collaborate
  - ▶ Internal Partners
  - ▶ SRG Meetings
  - ▶ Pop-Ups
  - ▶ Community Survey
  - ▶ Community Meeting
- ▶ Implement
  - ▶ Goals
    - ▶ Objectives
    - ▶ Action Items
- ▶ Adapt
  - ▶ Monitoring
  - ▶ Reporting



# Timeline

- ▶ Kickoff Meeting–Late Summer 2017
- ▶ Managing Partner Interviews–Winter 2018
- ▶ Resource Assessment–Spring 2018
  - ▶ UTC- all trees (Public and Private)
  - ▶ iTree- Public Trees
- ▶ SRG Meeting #1 – Late Spring 2018
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- ▶ Community Workshop–Summer 2018
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# Ordinance Updates

- ▶ Amended and consolidated code language related to Trees (City Code Chapter 12.56)
- ▶ Tree Removal Permit Notification Page
- ▶ Tree Planting and Replacement Fund



# New Programs

PUBLIC WORKS HOME

▶ ENGINEERING

▶ FACILITIES

▼ MAINTENANCE

▶ CONSTRUCTION COORDINATION

SIDEWALKS, CURBS & GUTTERS

STREET LANDSCAPE

▶ STREET MAINTENANCE

▼ TREES

PROGRAMS

NATOMAS TREE REFUND

▼ PERMITS & ORDINANCES

TREE REMOVALS:  
APPLICATION PERMIT  
REQUESTS

TREE REMOVALS: CITY  
MAINTENANCE

STREET TREE LIST

▶ STRATEGIC PLAN & ORDINANCE  
REVIEW

## TREE REMOVAL NOTIFICATION PAGE

### CITY MAINTENANCE

In accordance with Sacramento City Code 12.56.030, a written objection may be made in regards to removal of a tree within 15 days of the posting date. Written objections must state the grounds for the objection and may be sent to City of Sacramento, Department of Public Works, Urban Forestry at 5730 24th St., Bldg. 12A, Sacramento, CA 95822 or email at [urbanforestry@cityofsacramento.org](mailto:urbanforestry@cityofsacramento.org).



Location: [4208 8th Ave](#)

Date Posted: 04/20/2018

Work Order #: 2722792

Number of Trees: 1

Reason for Removal: Main stem is encroaching into street; to be replaced

**Objection Final Filing Date: 05/07/2018**



Location: [7100 Riverside Blvd](#)

Date Posted: 04/30/2018

Work Order #: 2724082

# Ordinance Review Comments



# Resource Analysis

Urban Tree Canopy  
Assessment

From a birds-eye  
view

iTree Resource  
Analysis

Publicly managed  
trees (street trees,  
parks, and city  
facilities)

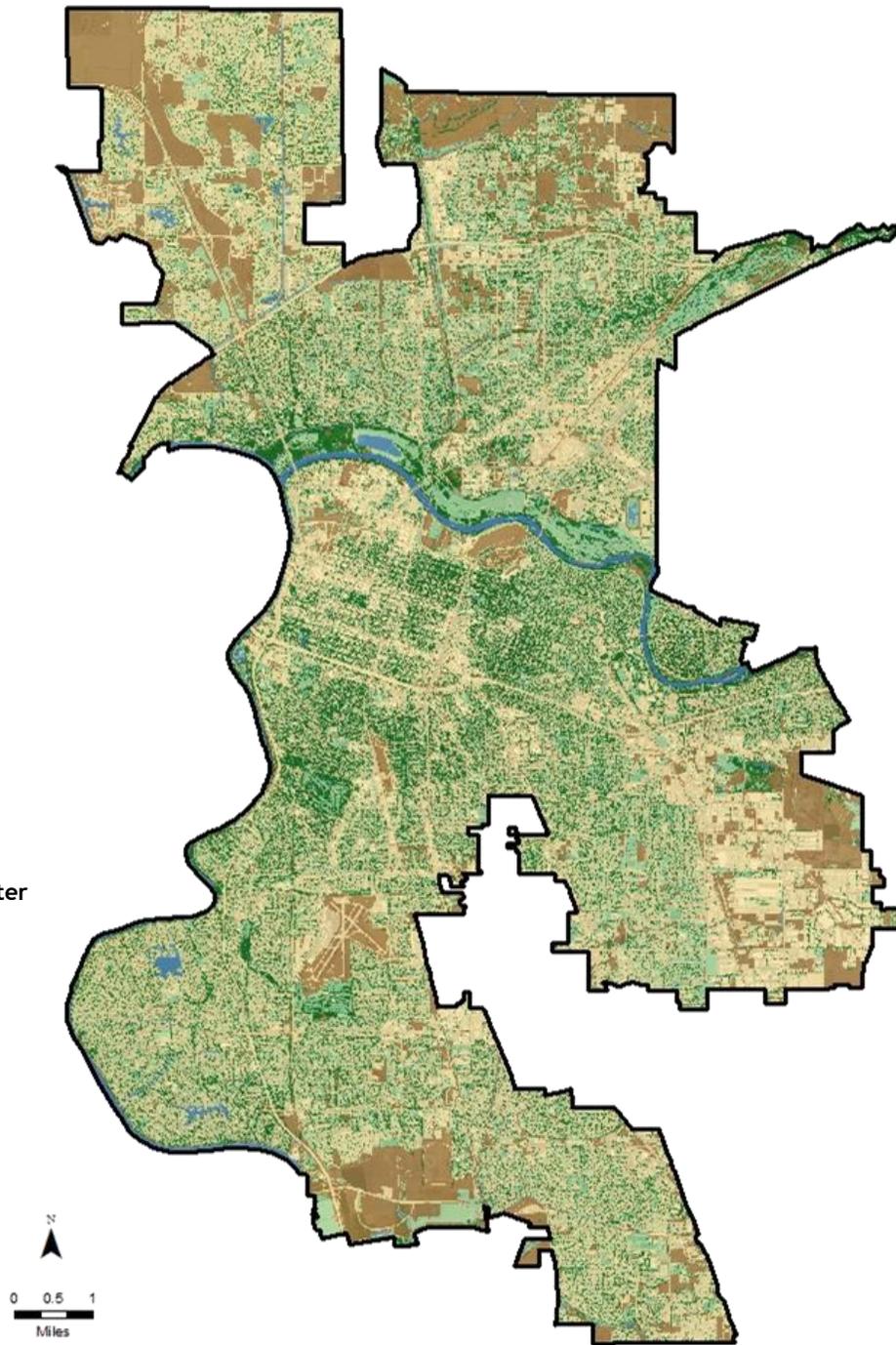
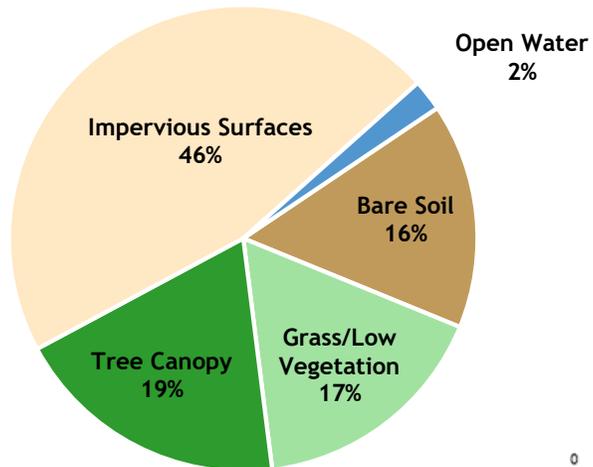
# Urban Tree Canopy Assessment

Public & Private Trees

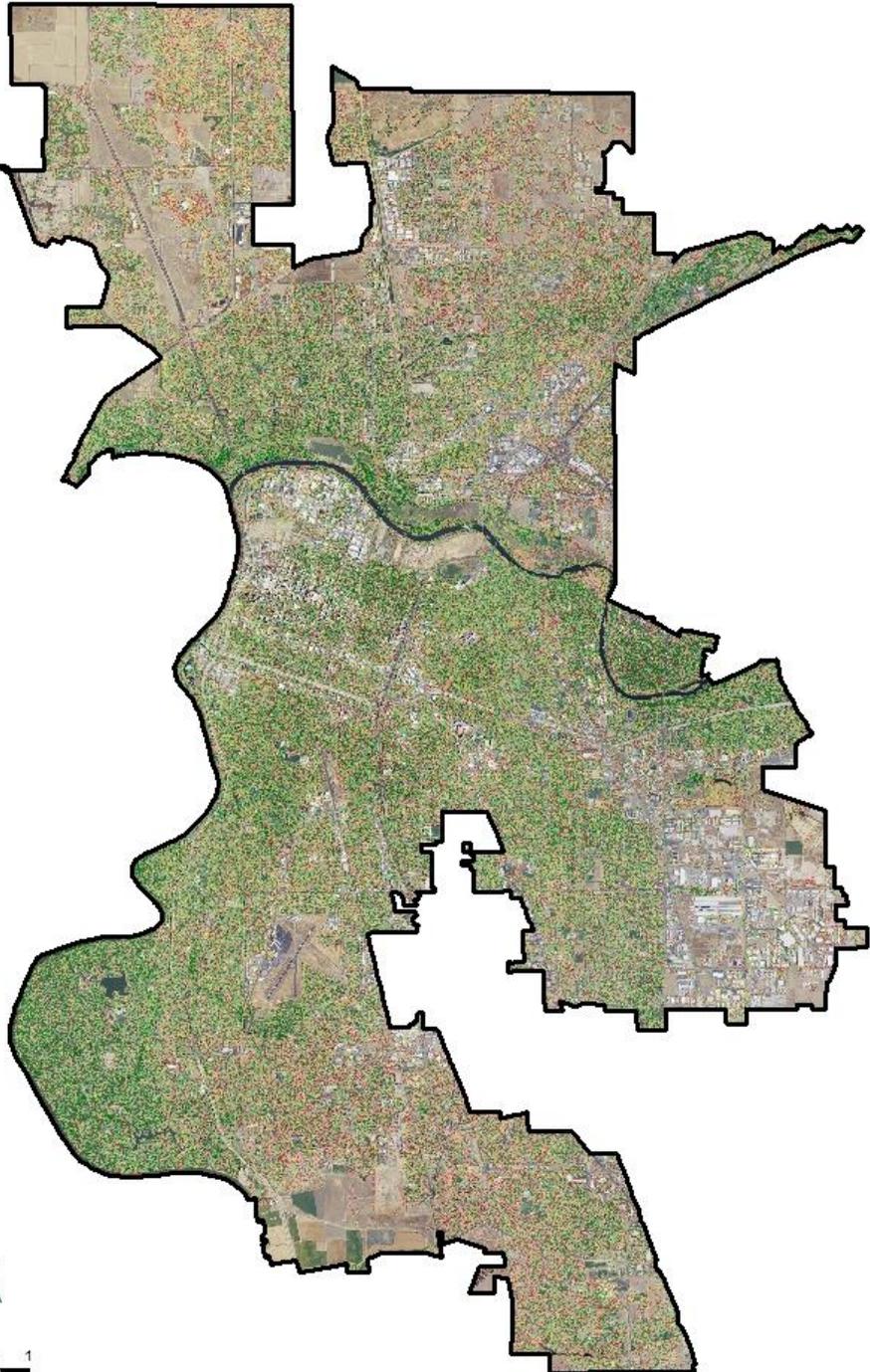
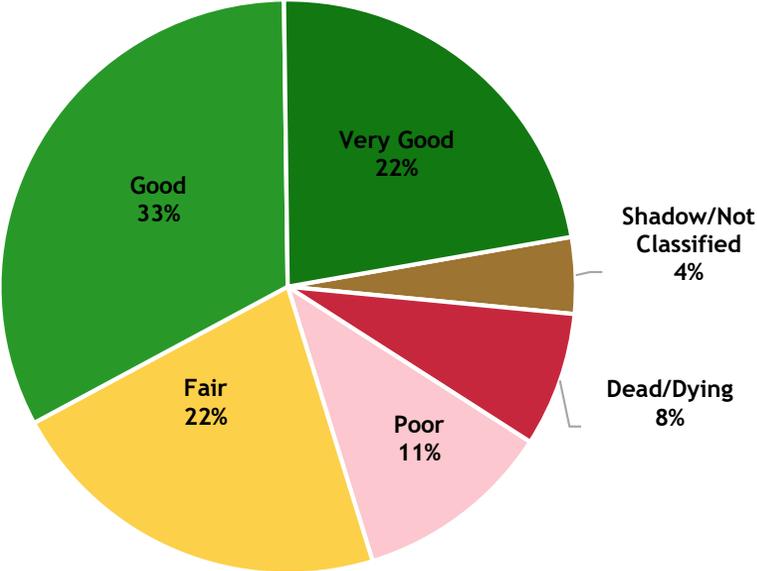


# Land Cover

- ▶ 19% tree canopy (including trees and woody shrubs)
- ▶ 46% impervious surface (roads, parking lots, and structures)
- ▶ 27% average canopy cover in parks
- ▶ 77% in fair or better condition.
- ▶ 45 potential canopy

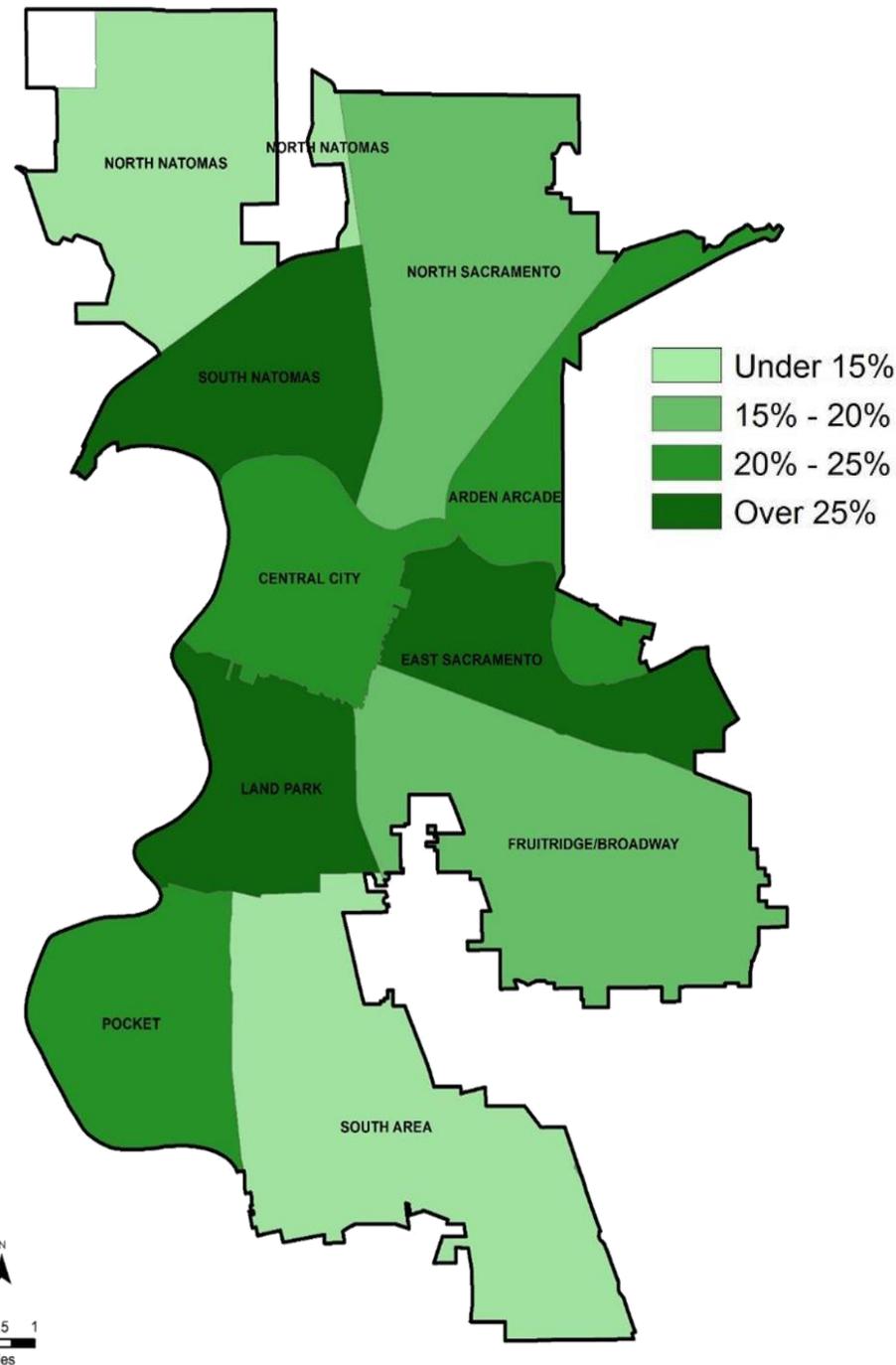


# Tree Canopy Health



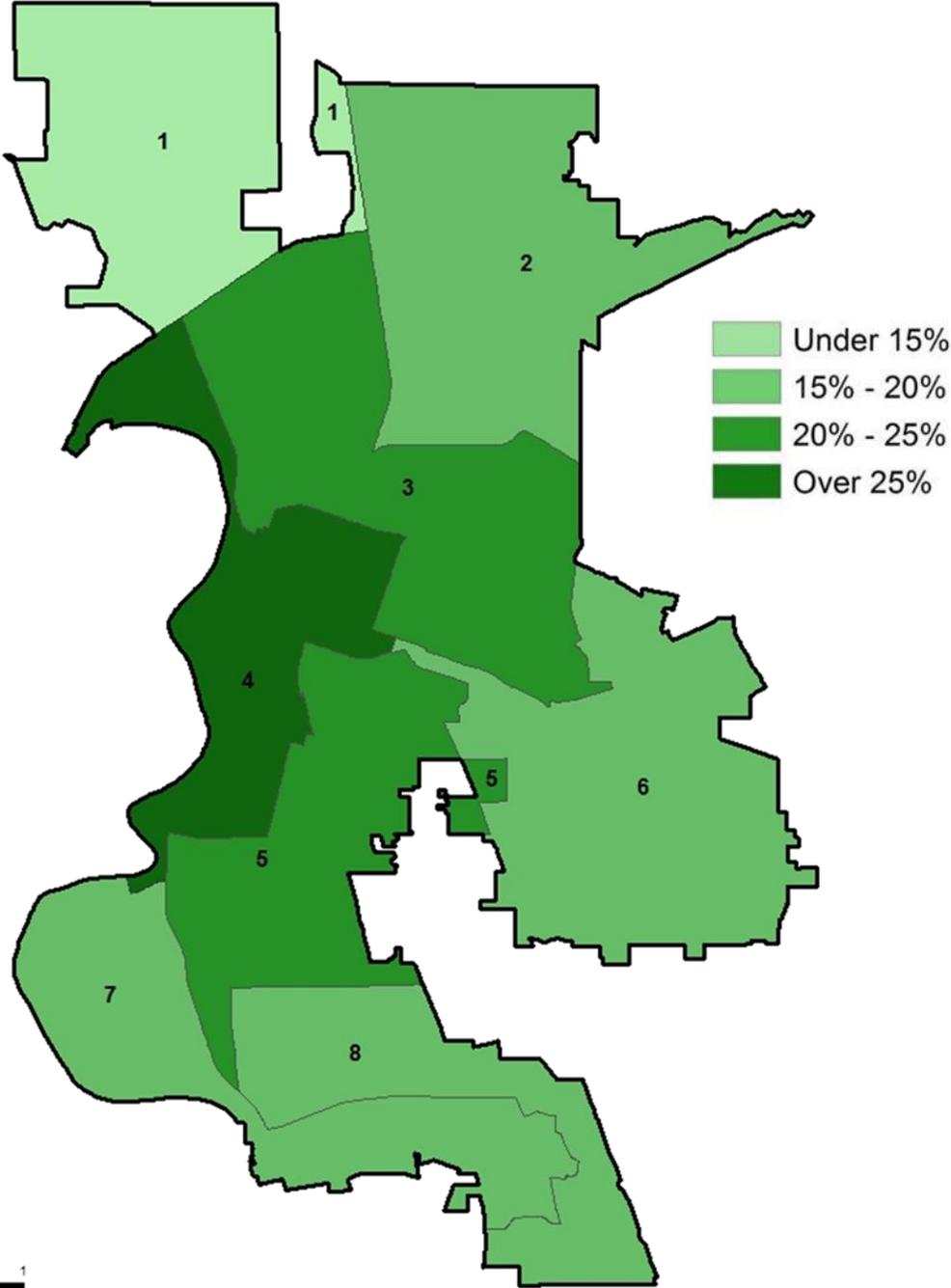
# Community Plan Areas

<i>Community Plan Area</i>	<i>Acres</i>	<i>Canopy Acres</i>	<i>Canopy %</i>	<i>Potential UTC</i>
South Area	10,550.80	1,557.70	14.76	43.10
Fruitridge /Broadway	9,768.51	1,511.83	15.48	37.68
North Sacramento	8,682.82	1,386.43	15.97	53.18
North Natomas	7,436.56	830.51	11.17	49.09
Pocket	5,076.34	1,140.08	22.46	41.29
South Natomas	4,996.79	1,268.87	25.39	53.35
Central City	4,394.51	957.30	21.78	36.16
Land Park	4,343.87	1,378.32	31.73	47.17
East Sacramento	4,243.31	1,299.29	30.62	46.85
Arden Arcade	3,640.48	865.12	23.76	39.80



# Council District

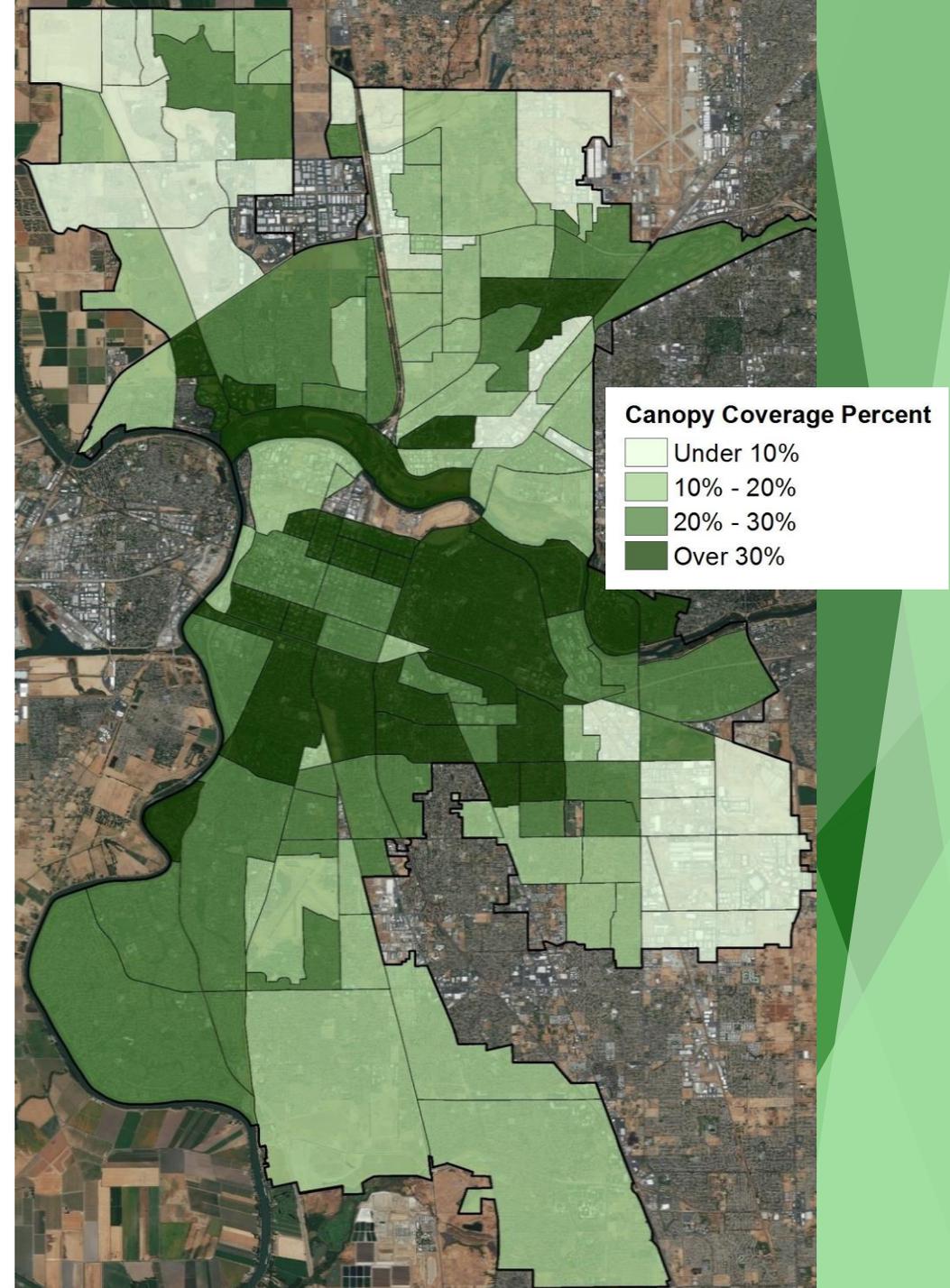
<i>Council District</i>	<i>Acres</i>	<i>Canopy Acres</i>	<i>Canopy %</i>	<i>Potential UTC</i>
District 1	8,061	832.24	10.32	47.17
District 2	9,864	1,633	16.56	45.01
District 3	10,007	2,414	24.12	49.58
District 4	6,609	2,062	31.20	48.21
District 5	7,052	1,568	22.23	37.82
District 6	10,099	1,642	16.26	38.34
District 7	6,821	1,166	17.10	52.61
District 8	5,270	881.51	16.73	41.88



# Tree Canopy by Neighborhood

## Top 10 Largest Neighborhoods by Area

<i>Neighborhood</i>	<i>Acres</i>	<i>Canopy Acres</i>	<i>Canopy %</i>	<i>Potential UTC</i>
Valley Hi / North Laguna	3,534	579	16.38	41.13
Meadowview	3,496	433	12.38	57.51
Pocket	2,850	629	22.05	63.18
East Sacramento	2,149	711	33.08	48.89
South Natomas	1,903	409	21.50	49.99
South Land Park	1,810	481	26.58	43.64
Robla	1,482	192	12.98	63.03
Parkway	1,372	220	16.05	34.94
Land Park	1,137	487	42.81	52.58
Raley Industrial Park	1,071	66	6.17	66.84
All other neighborhoods	40,419	7,595	18.79	43.95



# Parks

- ▶ 278 parks and open space areas
- ▶ 5,993 park acres
- ▶ 1,639 acres of canopy
- ▶ 27% average tree canopy
- ▶ 60% average potential canopy

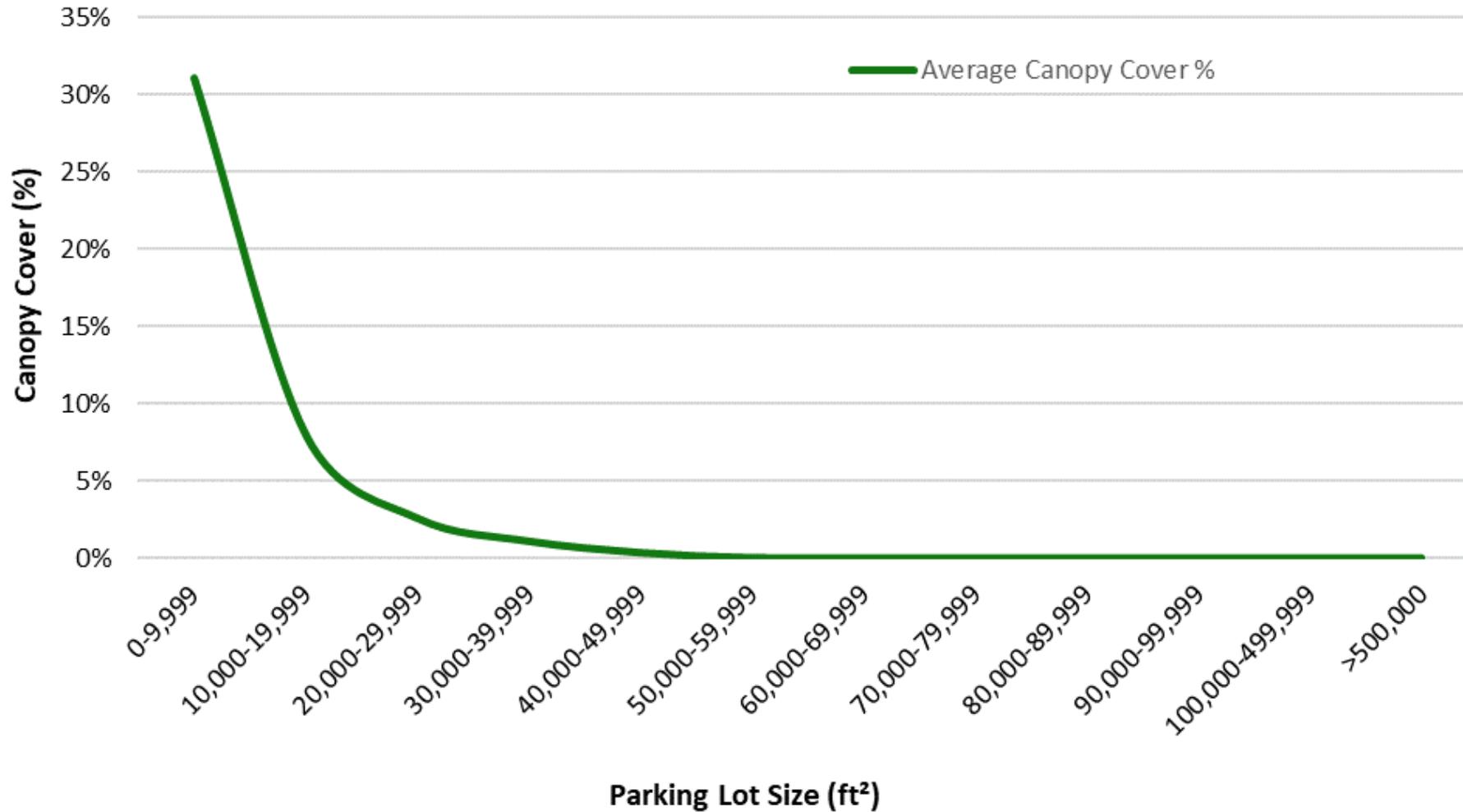


# Shade in Parking Lots

- ▶ 648 randomized samples
  - ▶ 89% highest canopy
  - ▶ 0% lowest canopy
  - ▶ 15% average canopy
  - ▶ 6% meet standard
  - ▶ 94% < standard

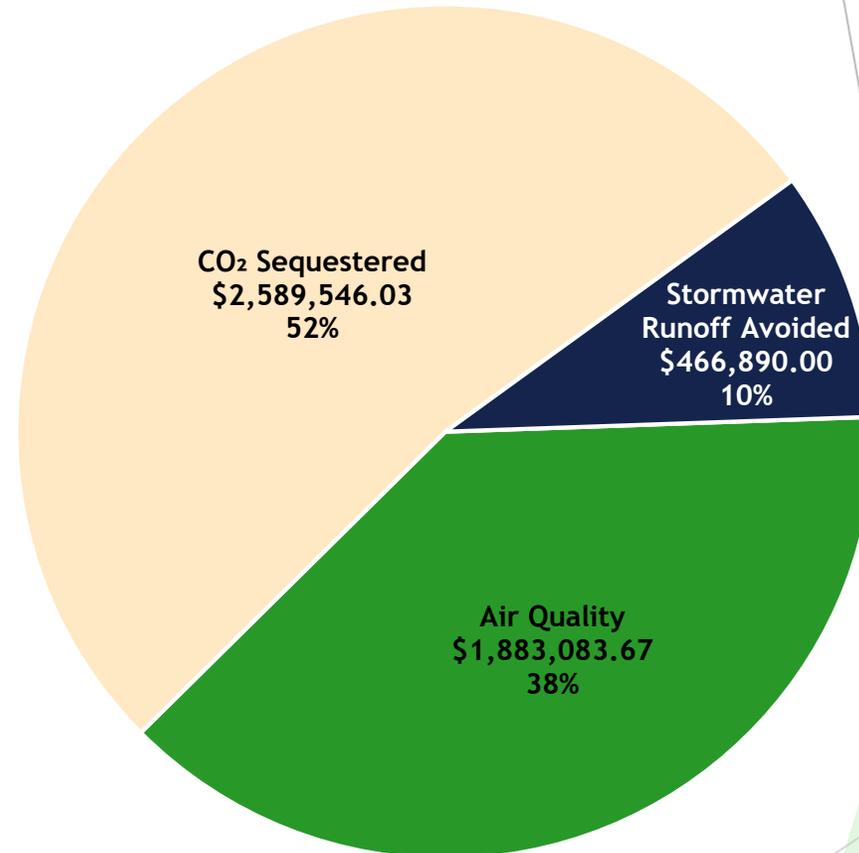


# Shade in Parking Lots



# Benefits from Tree Canopy

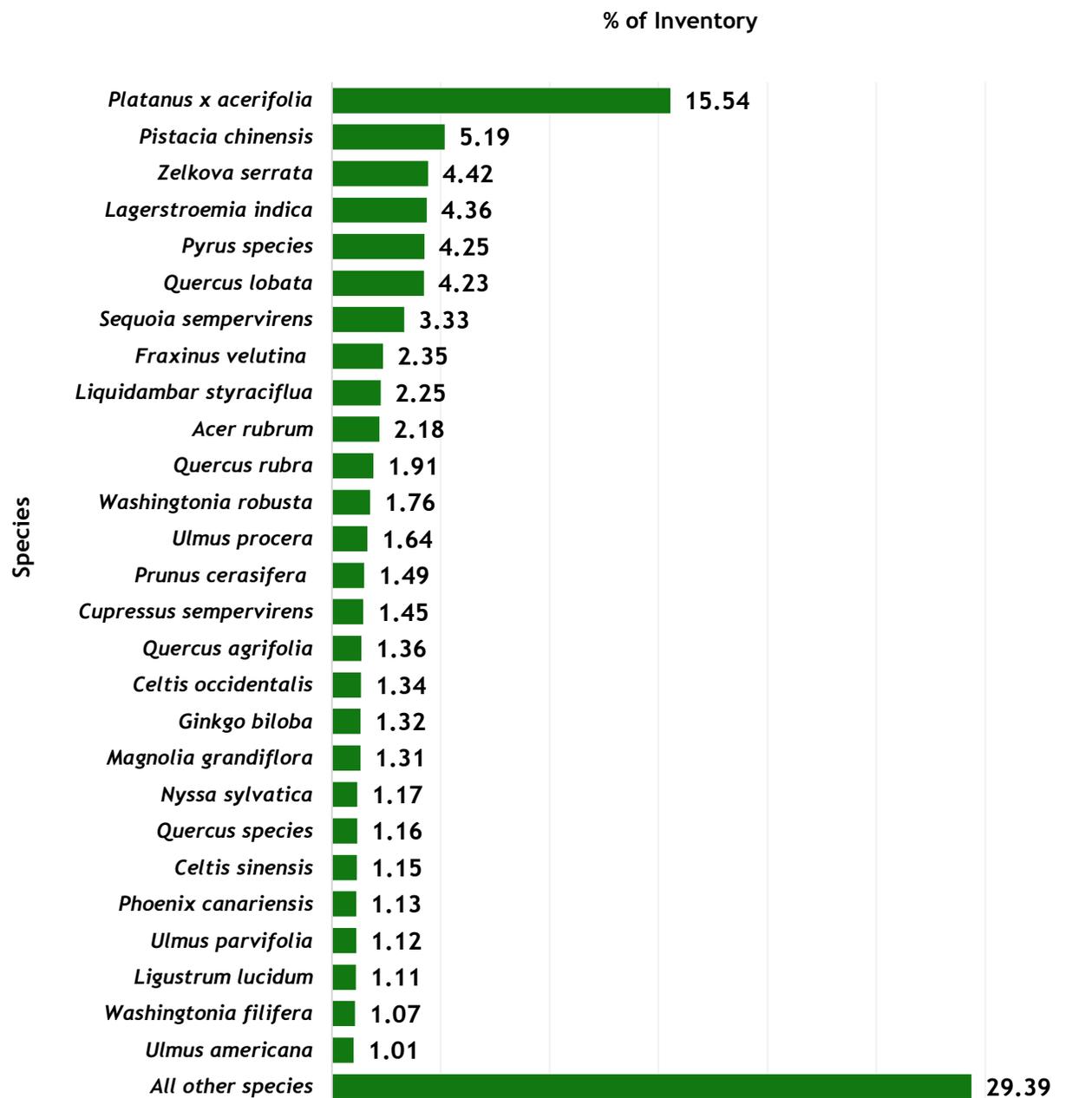
- ▶ 1.5 million tons stored CO<sub>2</sub>
- ▶ ~\$4.5 million annual benefits
  - ▶ 392 tons of air pollutants removed, valued at \$1,883,084
  - ▶ 58 million gallons stormwater runoff reduced, valued at \$466,890
  - ▶ 73,541 tons of CO<sub>2</sub> removed, valued at more than \$2.5 million



# Public Trees

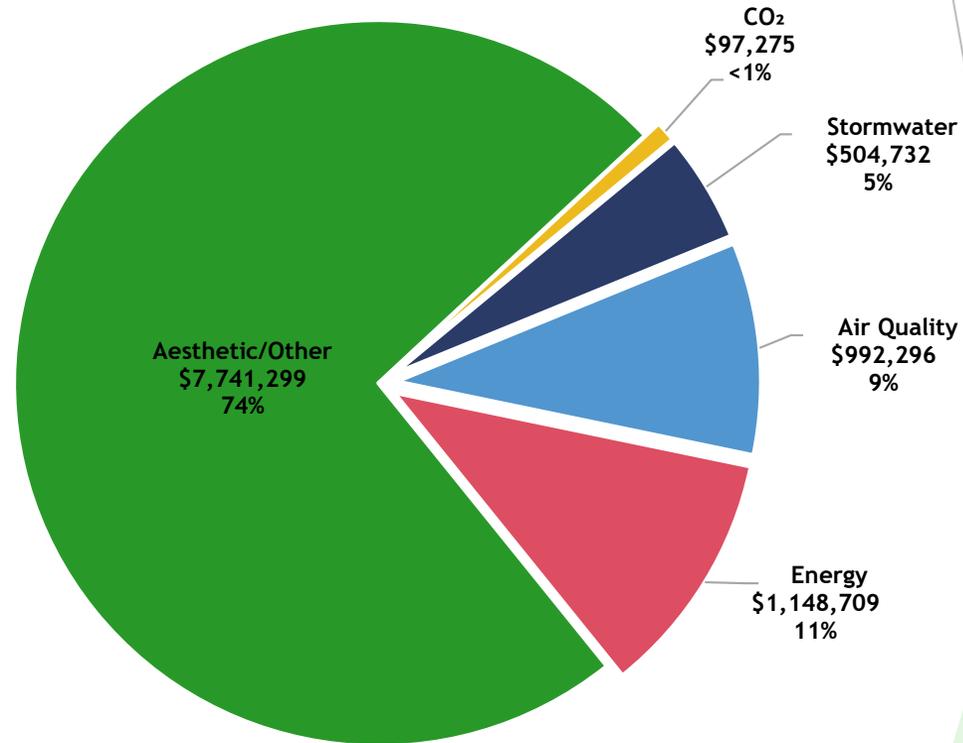
## Composition

- ▶ 87,324 trees
- ▶ 194 unique species
- ▶ 62% of trees are <12 inches DBH and 16% >24 inches DBH
- ▶ \$409 million to replace (~\$4,684/tree)
- ▶ Condition good (default)



# PublicTree Benefits

- ▶ \$10.5 million total annual benefit; \$120.06/tree or \$21.17/capita.
  - ▶ \$504,732 stormwater management, 5%
  - ▶ \$992,296 air quality, 10%
  - ▶ \$97,275 carbon reduction, <1%
  - ▶ ~\$1.1 million energy savings, 11%
  - ▶ \$7.7 million aesthetic and socioeconomic benefits, 74%



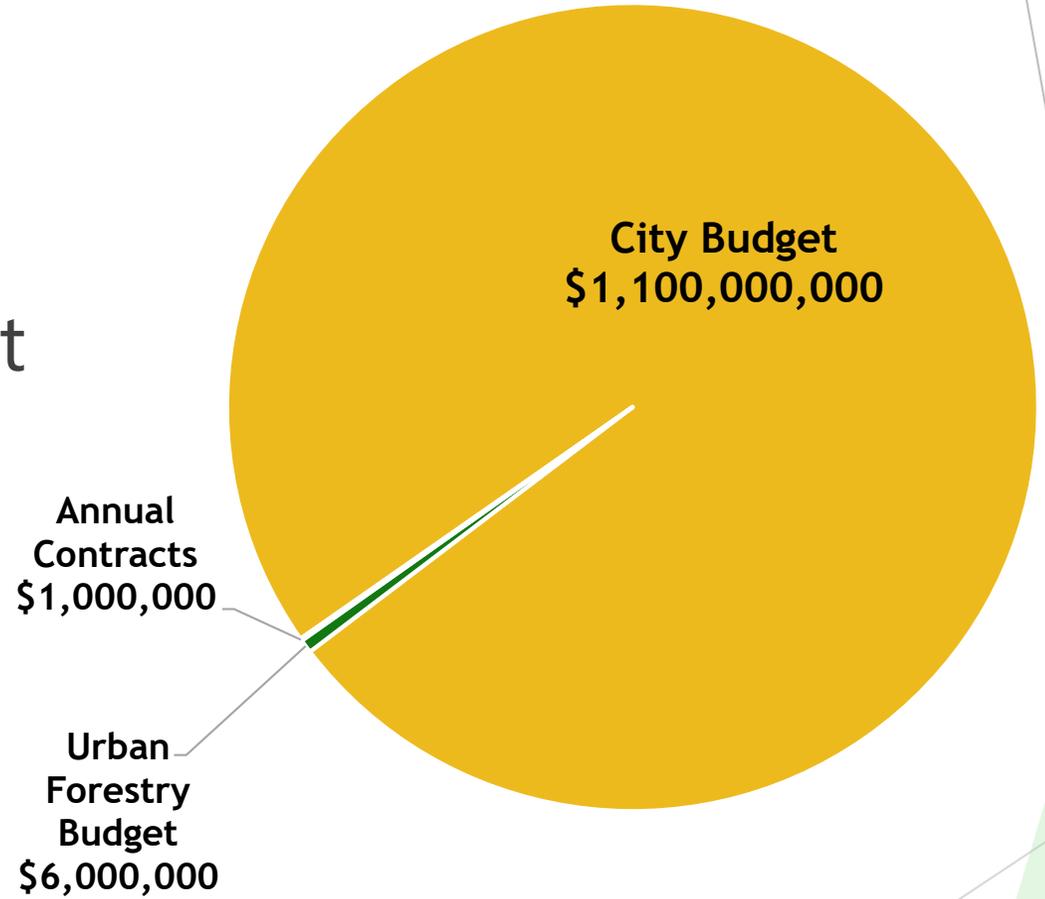
# Benefit versus Investment

- ▶ \$8.2 million annual investment
- ▶ \$10.5 annual benefit
- ▶ \$2.3 million net
- ▶ \$1.28 in benefits for every \$1 invested
- ▶ \$26.16/tree
- ▶ \$4.61/capita



# Operations

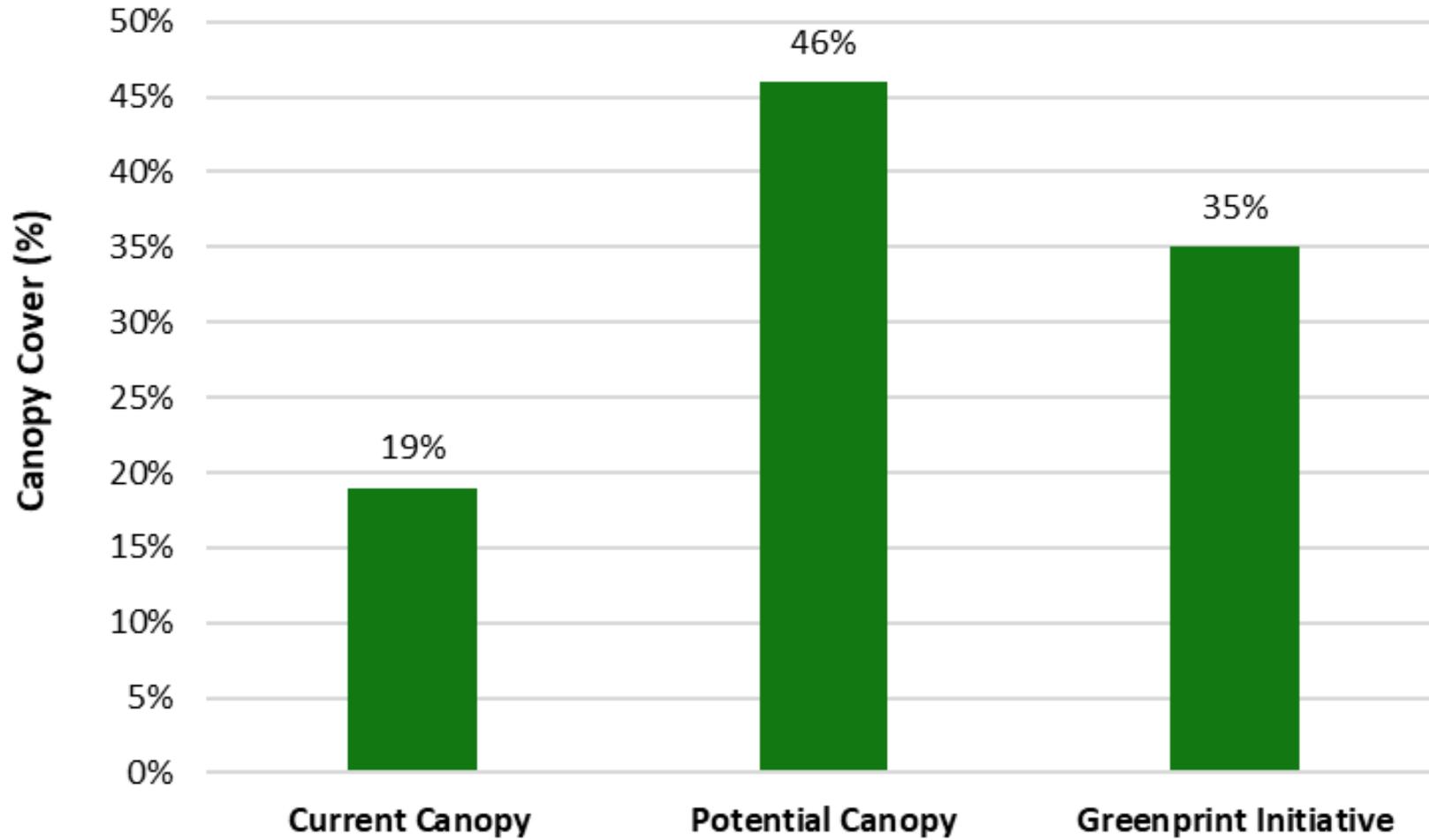
- ▶ Maintenance (eg. Pruning)
- ▶ Removal
- ▶ Planting/Replacement
- ▶ Development Review
- ▶ Permits
- ▶ Emergency Response (24 hour)
- ▶ Outreach and Engagement



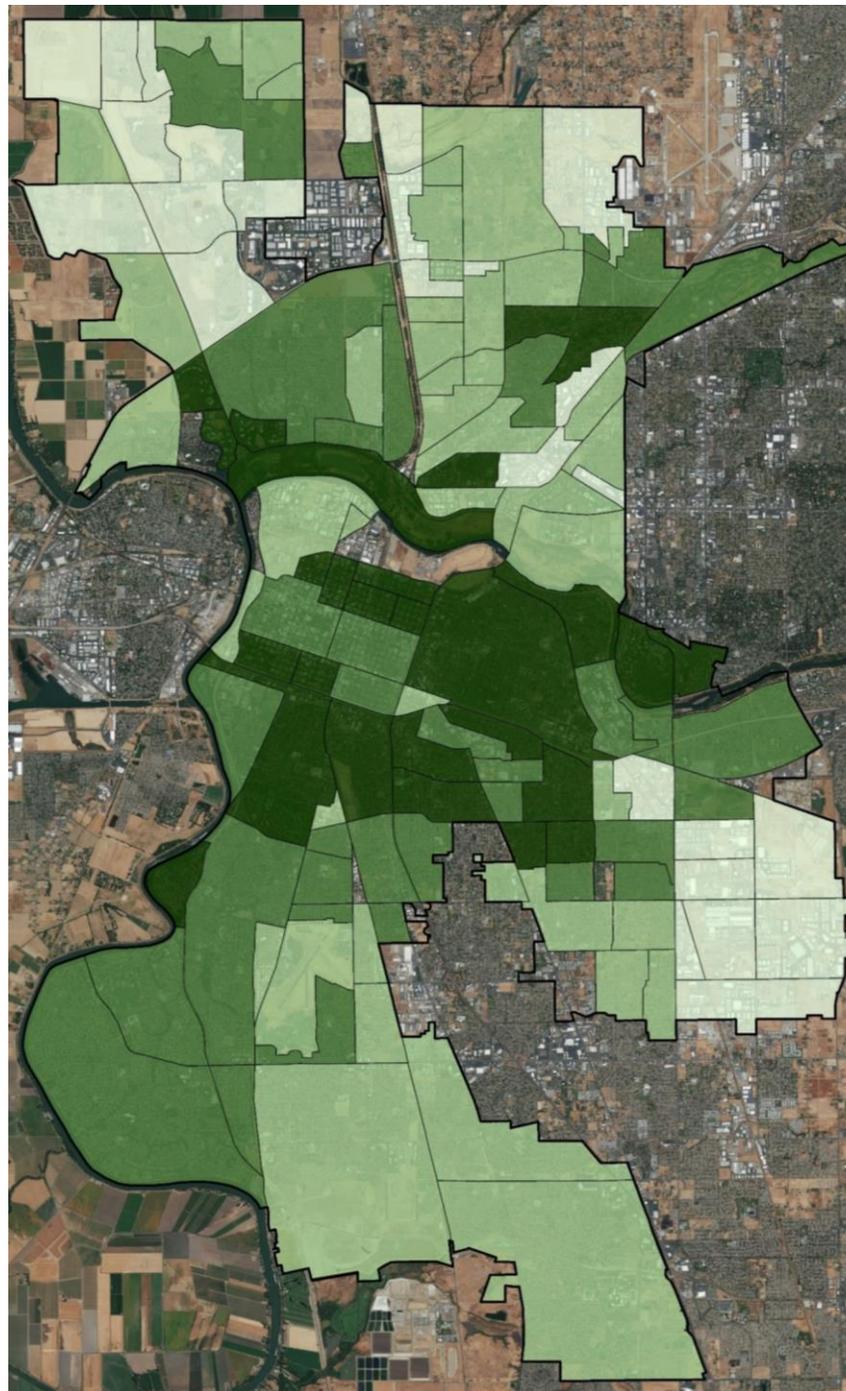
# Discussion



# Canopy Goals



# Tree Canopy by Neighborhood



# Shade requirements for parking lots

- ▶ 50% shade at 15 years
- ▶ Solar
- ▶ Enforcement/fees
- ▶ Other ideas for increasing success

Highest canopy cover %	89.37%
Lowest canopy cover %	0.00%
Average %	15.31%
Standard Deviation	16.82%
Percent Meets Standards	5.85%
Percent Does Not Meet Standards	94.14%



Where would  
you like to  
see trees?



# Returning Park Land to a Natural State

Outreach & Education



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Questions?