CARMEL-BY-THE-SEA, CA PLANNING FOR OUR URBAN FOREST

Presented by Davey Resource Group, Inc. Funding for this project was provided by the California Department of Forestry and Fire Protection as part of the California Climate Investments Program.





THIS PRESENTATION





PLAN DEVELOPMENT

THE URBAN FOREST

- Community trees (public trees)
 - Public rights-of-way (street trees)
 - Parks and natural areas
 - Trees at city facilities
- Private trees
 - Residential
 - Commercial
 - Industrial zones

PLAN DEVELOPMENT

- Kickoff January 2023
- Community tree resource analysis
- Tree canopy and land cover assessment
- Recommended Species List
- Background review
 - Current policies
 - Operations and funding
- Community and stakeholder engagement
- Urban Forest Management Plan (UFMP)
 - Drafts (2)
 - Final

CARMEL'S MANAGEMENT PLAN

- Illustrate the value and benefit of community trees
- Communicate challenges and opportunities
- Promote shared vision
- Ensure resources are in place to support community goals

EXAMPLE URBAN FOREST MANAGEMENT PLANS

CITY OF BOULDER URBAN FOREST STRATEGIC PLAN



Davis CALIFORNIA 2023

DAVIS URBAN FOREST MANAGEMENT PLAN

Engage the community to further stewardship of the urban forest

community to take part in fostering the

aeneration to be leaders in conservation.

The objectives present actionable steps for interactive opportunities and public

urban forest and can inspire the next

Adopt the Urban Forest Mar

Plan and align with other guiding

This goal promotes the importance of trees and urban forests in local and regional

planning efforts. The objectives present actionable steps to implement the UFMP, including periodic review and updates to

keep the platform and content relevant.

🛎 Grow a climate resilient urban forest

This goal will provide a role for the

The Urban Forest Management Plan (UFMP) presents these seven goals for the urban forest. Each goal is supported by measurable objectives and specific actions that are intended to guide Davis' urban forest programming and provide the foundation for annual work plans and budget forecasts.

Promote tree preservation and protection

This goal will increase awareness of policies and regulations around tree protection. The objectives present actionable steps to protect trees during development.

Continue to maintain a safe and resilient urban forest

This goal promotes sustainability in the urban forest, including actionable steps to ensure planting practices further diversify the species palette for greater resilience to future stressors (e.g., climate, pests, and

Set a baseline of no net loss in tree canopy cover

diseases).

This goal will preserve trees and enhance

canopy and associated benefits for future generations. This goal provides actionable This goal promotes resiliency in the overall steps to protect and expand the urban urban forest in anticipation of a changing environment. Stakeholder collaboration is

education

documents

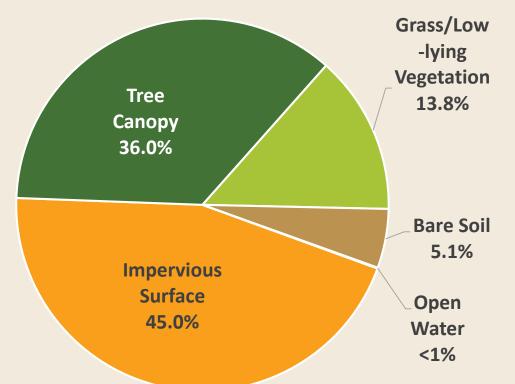




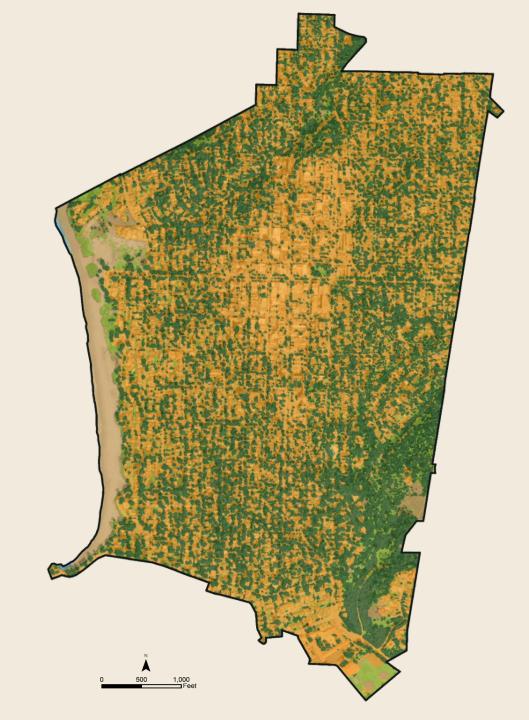


DISTRIBUTION OF TREE CANOPY

LAND COVER



- 676 total acres
- 243 acres of tree canopy
- 36% tree canopy



PLANTING POTENTIAL

Very Low

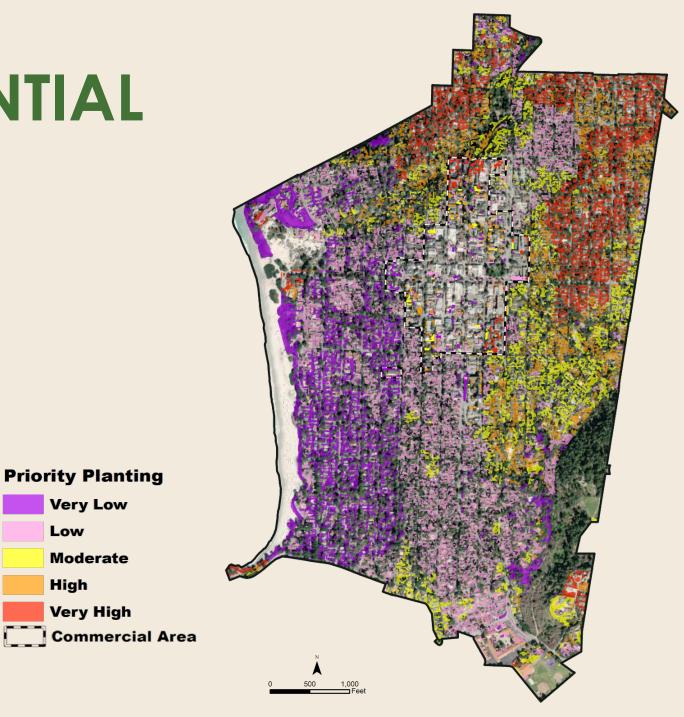
Moderate

Very High

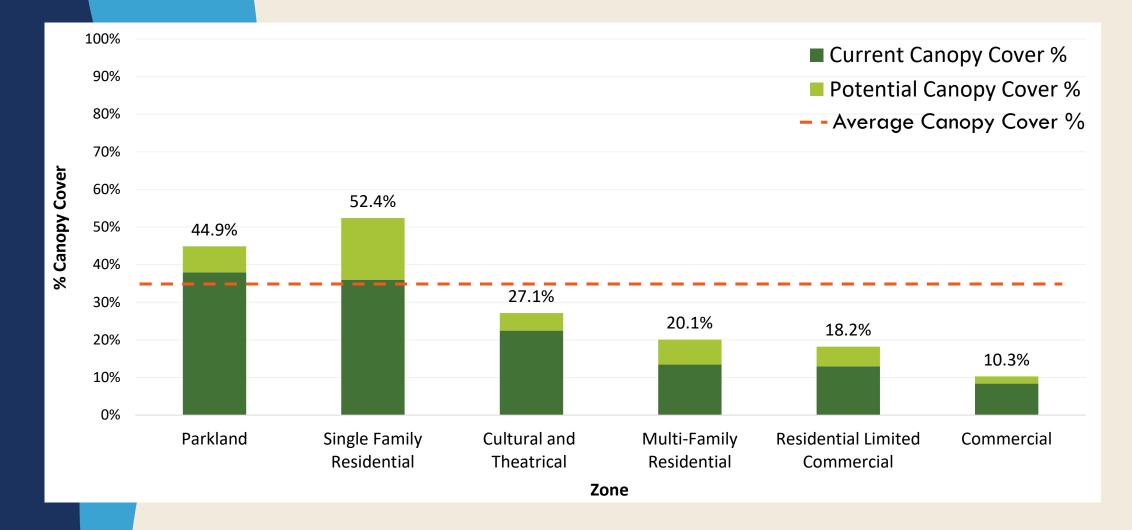
Low

High

- 79 acres residential areas
 - 21 acres high or very high priority ٠
 - 3,621 potential planting sites
- 2 acres commercial areas
 - 1 acre high or very high priority ٠
 - 99 potential planting sites ٠
- Prioritization based on stormwater management and canopy continuity

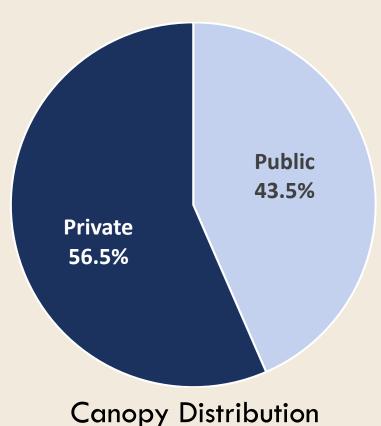


CANOPY BY ZONING



PUBLIC V. PRIVATE CANOPY COVER

- 106 acres on public property
 - 40% tree canopy cover
 - 47% potential canopy cover
- 138 acres on private property
 - 33% tree canopy cover
 - 49% potential canopy cover





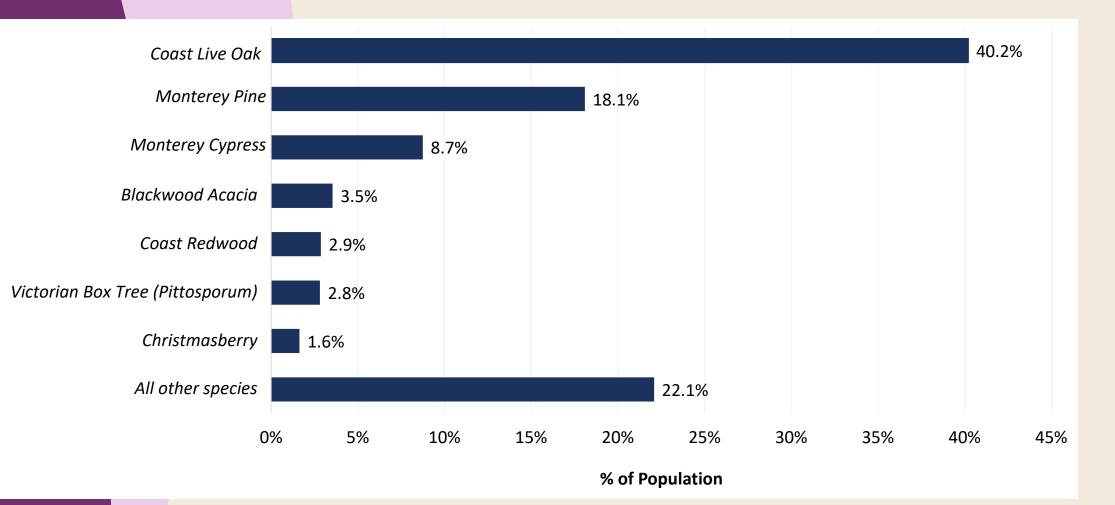
COMMUNITY TREE RESOURCE

COMMUNITY TREE RESOURCE

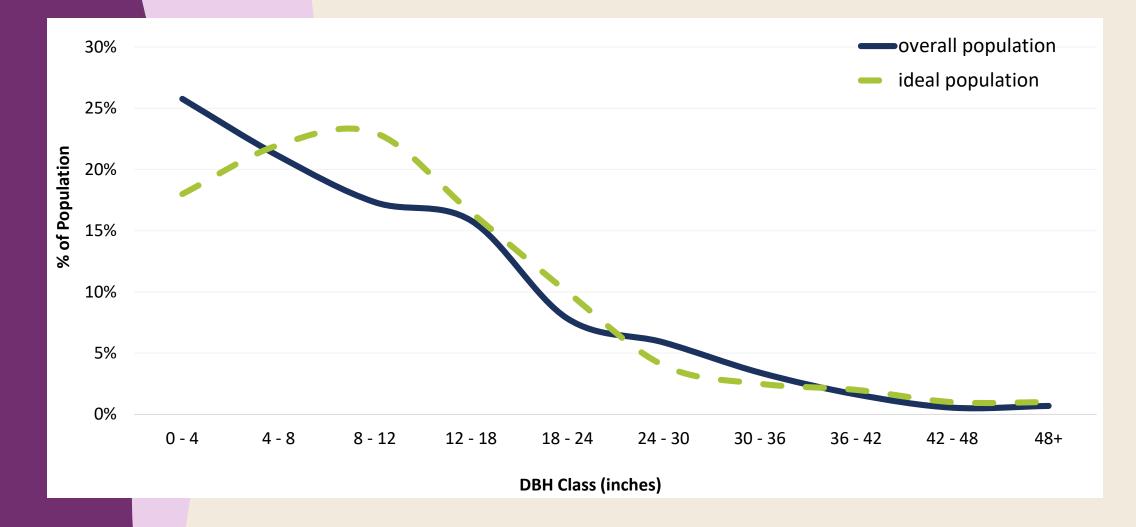
- 9,875 trees
- 1,118 potential planting sites
- 4,412 tons of carbon stored
- \$25.2 million to replace



SPECIES DIVERSITY



AGE DISTRIBUTION



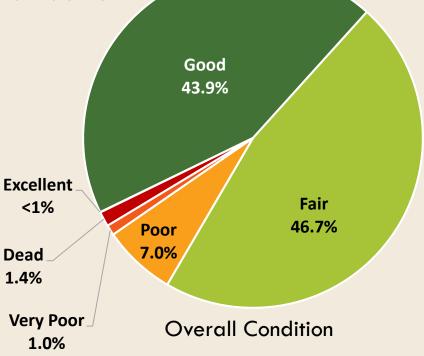
ANNUAL BENEFITS FROM COMMUNITY TREES

- 582,667 gallons of stormwater runoff avoided
- 3 tons of air pollutants removed
 - \$22,420 savings from fewer adverse health incidents
- 115 tons of carbon directly sequestered



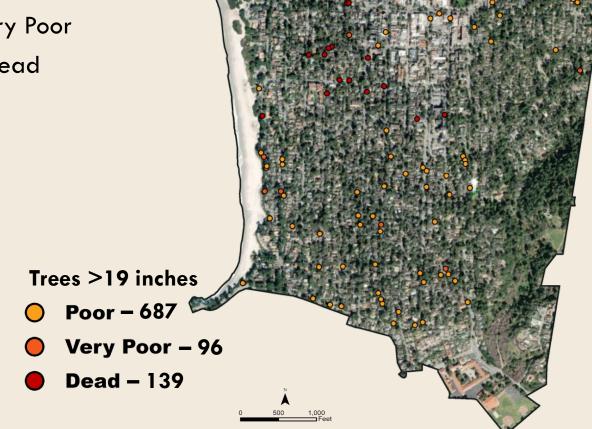
TREE CONDITION

- Trees <8" DBH 94% in fair or better
- Trees 9 to 12" DBH 87% in fair or better
- Trees >24" 88% in fair or better
 - 12% in poor or worse



TREE CONDITION

- 10% of trees in poor or worse condition
 - 687 Poor
 - 96 Very Poor
 - 139 Dead





URBAN FORESTRY SERVICES

URBAN FORESTRY OPERATIONS

- Annual Services
 - ~300 trees pruned
 - \sim 150 trees removed
 - ~80 trees planted
 - Inspections for pests & pathogens





BREAKOUT SESSION

- 1. Guidelines
- 2. Workbooks
- 3. Discussion (~15 minutes/topic)
- 4. Reporting

#1 CANOPY GOALS

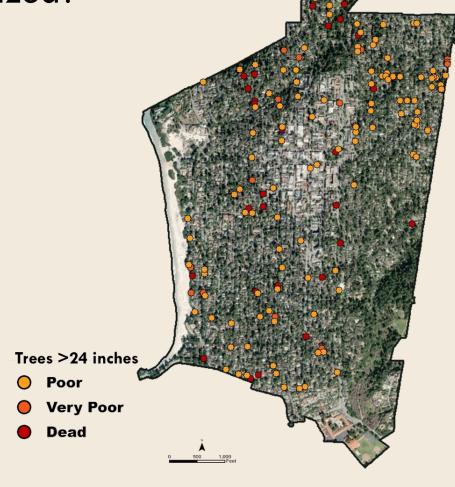
Should canopy cover be maintained, increased, or reduced? What should the canopy goal be?

- Overall
- Commercial areas
- Residential areas
- Parks/open space

Current tree canopy cover = 36%

#2 GEOGRAPHIC PRIORITY

As community trees are removed, where should replanting be prioritized?



#3 SPECIES CHARACTERISTICS

- What tree characteristics are most important (e.g., shade, fruit, color, etc.)?
- 2. What species or types of trees should be added to or excluded from the Recommended Species List?
 - Why?

GROUP REPORTING & DISCUSSION

#1 Canopy Goals#2 Geographic Priority#3 Species Characteristics

THANK YOU

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TAKE THE SURVEY!

Available on the City website on the Forest, Parks, and Beach page starting the week of 07/17/2023.

Paper copies will be available at Public Works, and may be returned to Public Works or City Hall.