Defining Urban Forest Assets:Tree Assessments and Inventories



Today's Road Trip

- Why?
- Inventory Facts
- Results
- Tools
- Questions

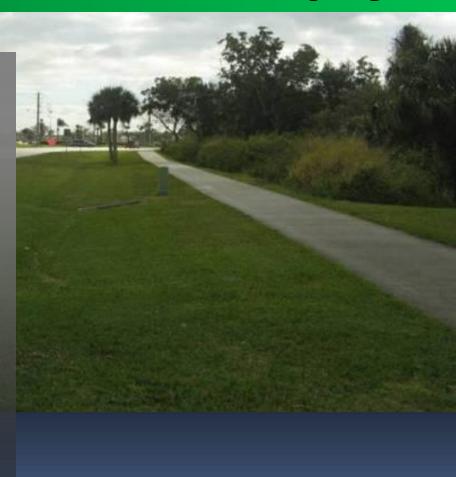
A tree inventory is...

- Data
- Maintenance Tool
- Management Tool
- Research Tool

To Put It Simply...

Why a tree inventory?

- Location
- Operations
- Reduce Risk
- Plant Trees
- Urban Forest Composition
- Work Performance
- Future Needs
- Research





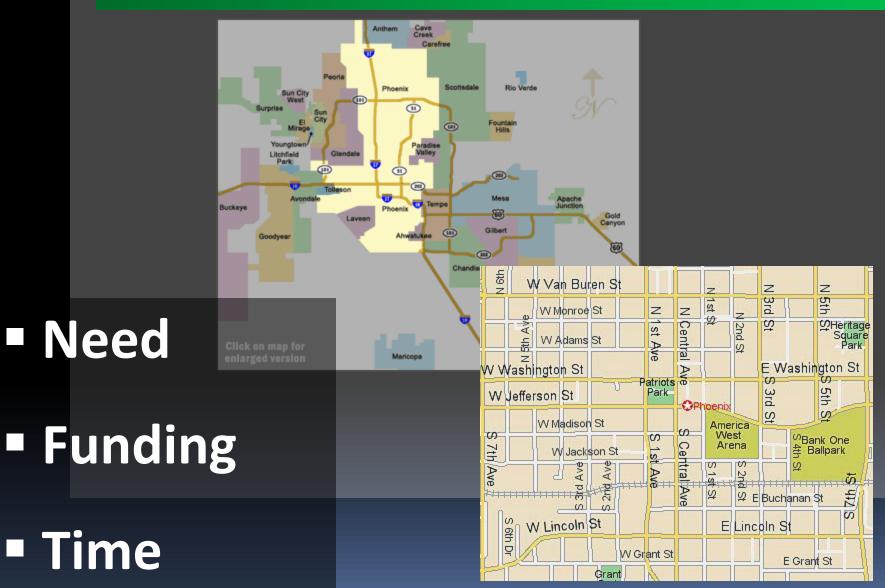
Players or Performers

- In-house
- Out-source
- Volunteer
- Drive by
- Techno-arborists

Players or Performers

	Cost	Priority	In-House Resources	Credentials
Volunteers	\$-?	Low	Low to Moderate	Low
In-House Staff	\$\$-?	Low to Moderate	High	Varies
Outsource (Contractor)	\$\$\$	Moderate to High	Low	High

Location, location







...should be collected?



Inventory Data Fields



Individual Tree Attributes







Individual Tree Attributes



Species Botanical: Pinus halepensis

Species Common: Aleppo

Pine DBH: 26 inches

Height: 50

Wood Condition: Good

Foliage Condition: Good

Maintenance Required:

Mature Tree - Routine

Ground: Medium

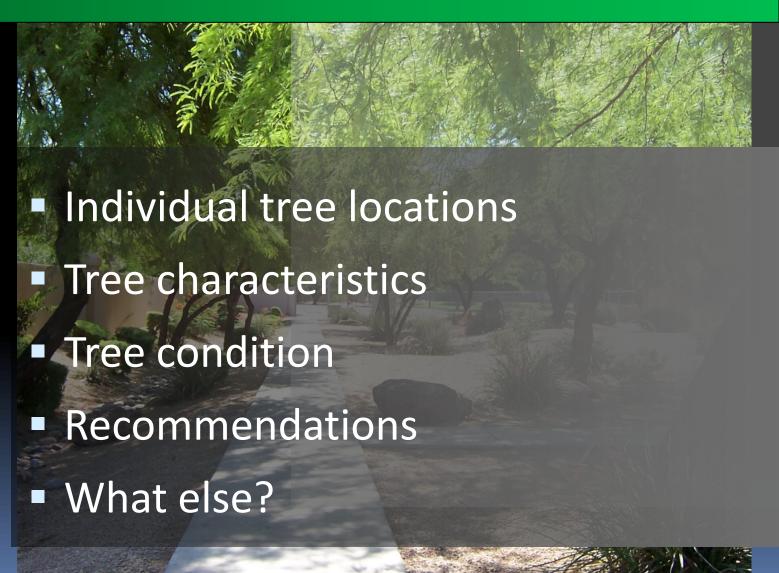
Decomposed Granite

Individual Tree Attributes

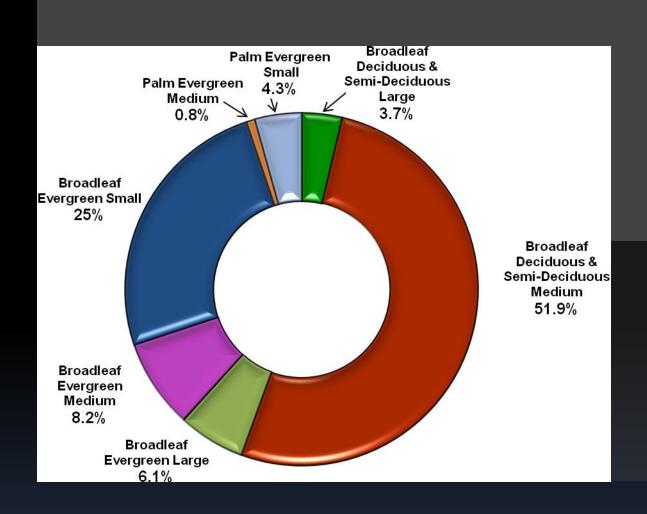


- Grow Space: FrontageRoad Median
- Removal Recommended No Removal
- Site Rating: Average
- Placement Rating Average
- Contribution Ratings:
- Average
- Comments: Minor
- deadwood; Minor root

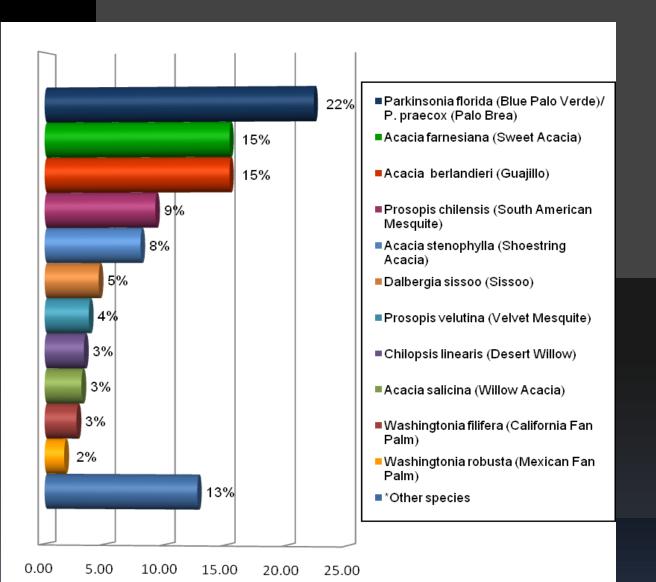
Data Results:



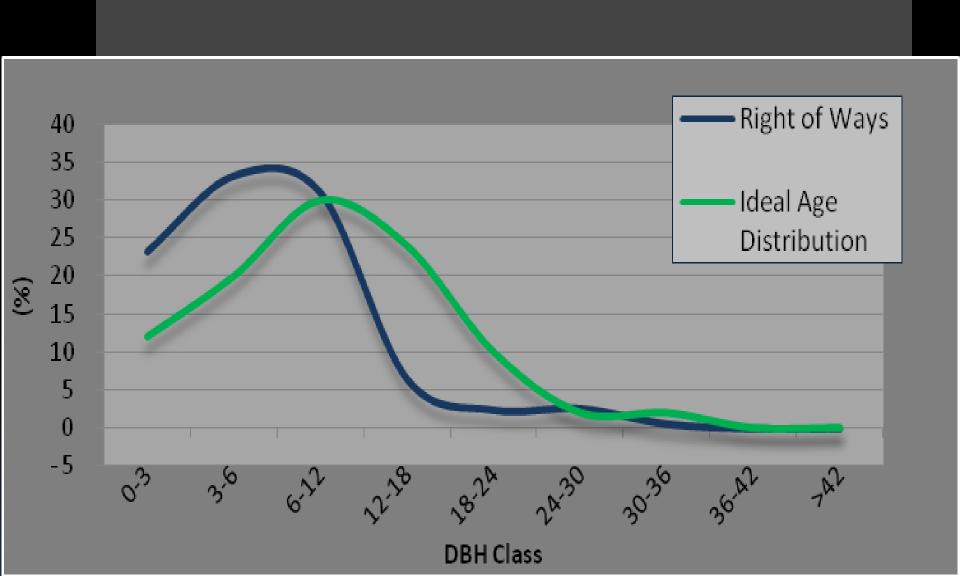
Population Composition



Species Richness



Tree Population

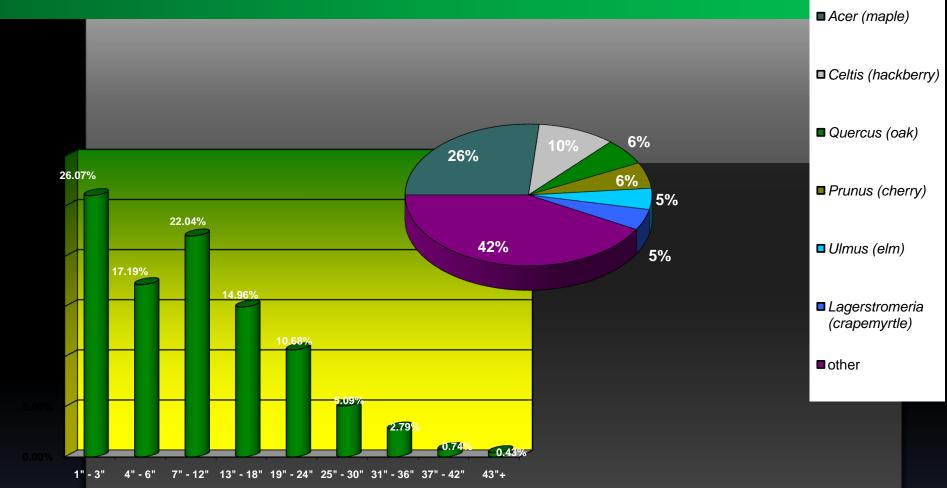


Tree Population



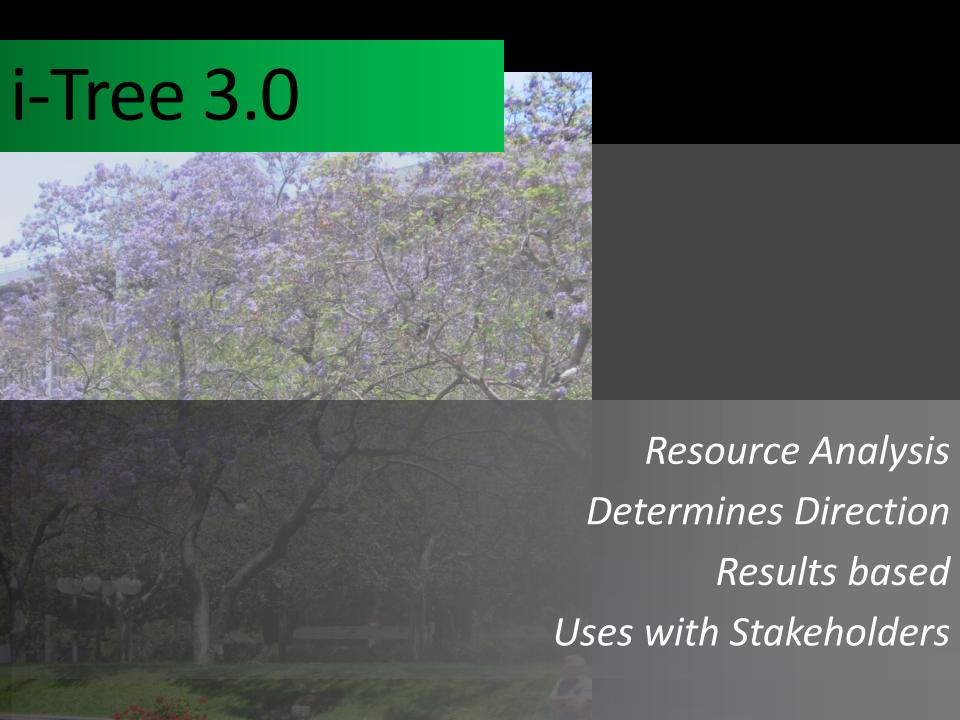
Maintenance	Number of Trees	Percentage	
Priority 1 Removal	46	2.86	
Priority 2 Removal	67	4.16	
Priority 3 Removal	57	3.54	
Priority 1 Prune	214	13.28	
Priority 2 Prune	212	13.16	
Large Tree Routine Prune	409	25.39	
Small Tree Routine Prune	263	16.33	
Training Prune	343	21.29	
Totals	1,611	100	

Distribution of Trees by Genus



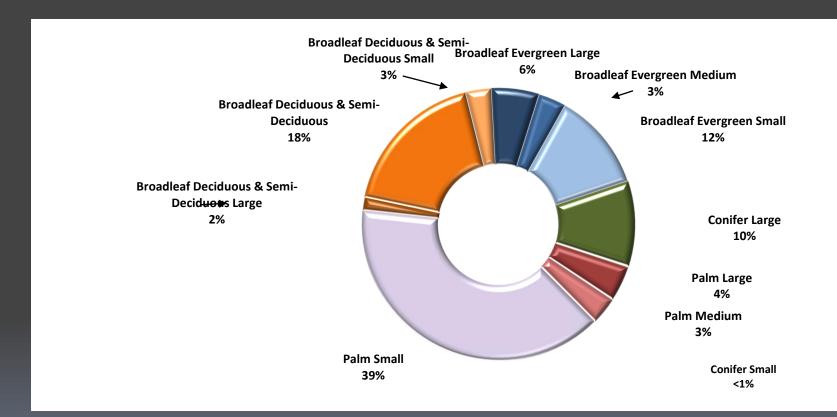
Percent of Trees by DBH Class

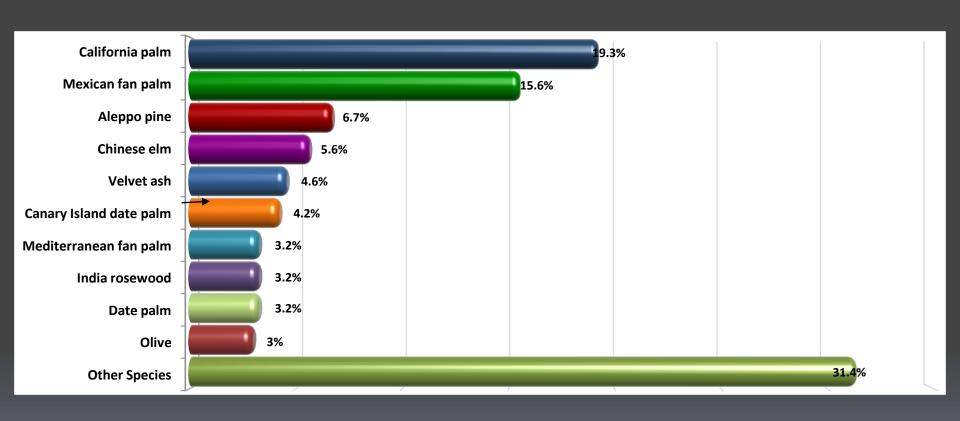


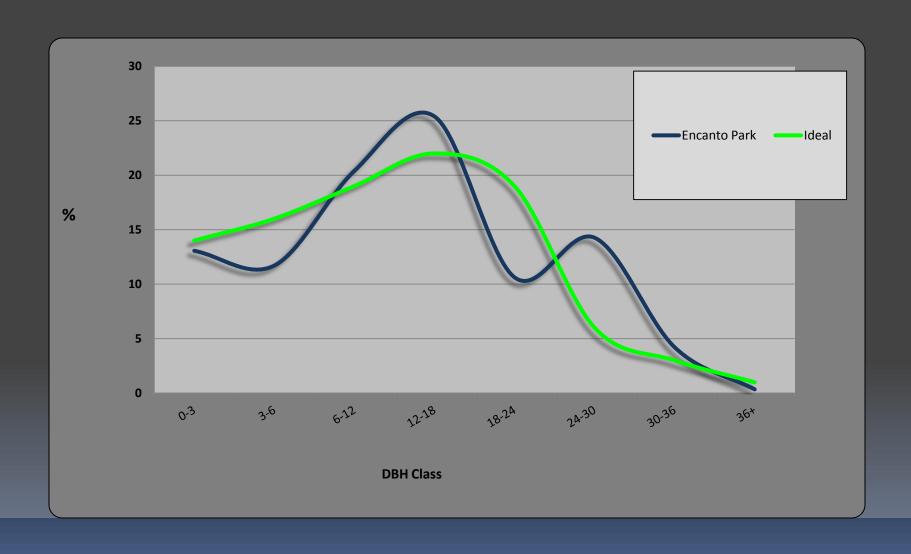


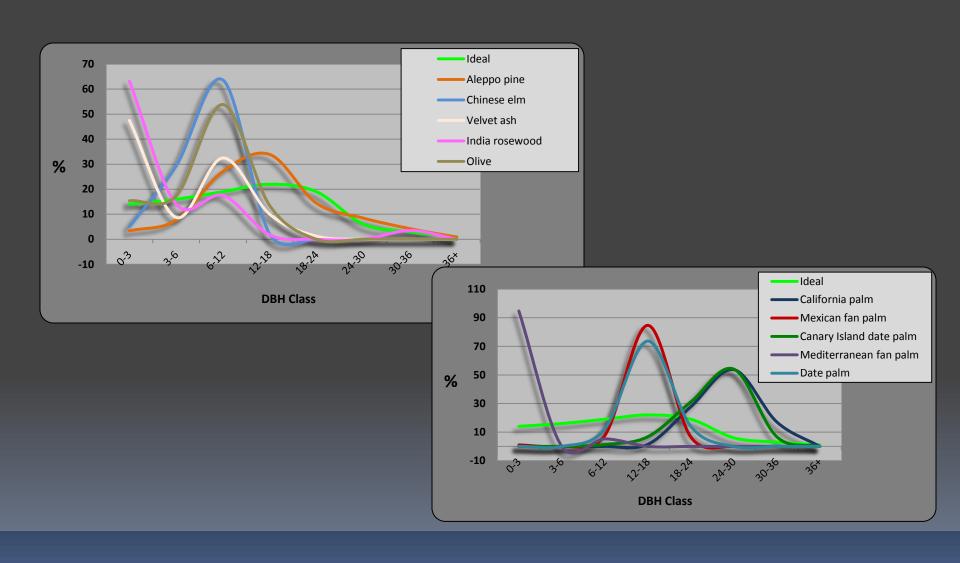
i-Tree Streets

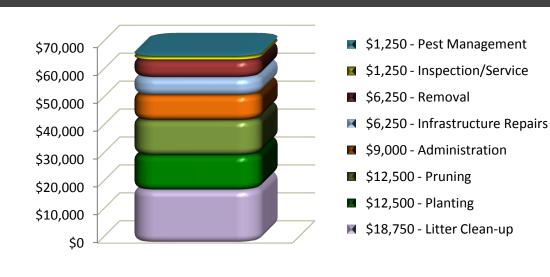


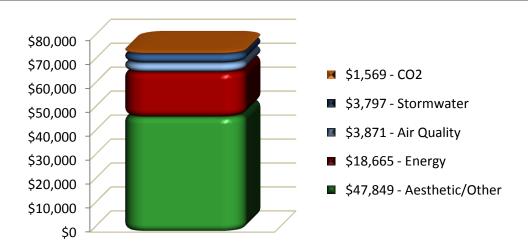














i-Tree Streets-Benefit Analysis

Common Name % Total	Number of Trees	Leaf Area (ft²) % Total	Canopy Cover (ft²) % Total	Energy \$/Tree	Stormwater \$/Tree
Crape Myrtle (17.9%)	3,508	150,227 (.6%)	321,634 (2.7%)	1.79	1.23
Southern Magnolia (2.1%)	406	645,678 (2.6%)	324,275 (2.8%)	14.01	21.13
American Sycamore (1.1%)	222	1,145,671 (4.6%)	321,312 (2.7%)	25.05	40.12

Public Education

Our City's Current Distribution of Trees by Genus

■ Overcus (oak)

□ Sabal (cabbage: palm)

- Lagerstroemia (common
- crapemyrtle)
 Cinnemomum
 (camphartree)
- Washingtonia (fan palm)
- Butte (pindo palm)

□ other

rease the species divercity of Crescent City's urban + plant trees that have not en heavily planted in +b- ast. Plant:

Bald Cypress

2 \Pine

ern Magnolia mathern Redoudar

Sweetbay Magnolia

Sweetgum

Sycamore

"The best time to plant a tree is twenty
years ago, the second best time is today."

Chinese Proverb

WHY PLANT A TREE

- Towns and cities that are alive with healthy, cared-for trees are better places to live.
- Tree-lined streets and wooded parks add beauty.
- . Trees shelter and shade homes.
- Trees moderate temperature, quiet noise, and clean the air.
- · Trees increase property values.
- Trees conserve energy.
- . Tree provide habitat for wildlife.
- . Trees are good for you!

"Trees make a world of difference."

John Rosenow, CEO Arbor Day Foundation

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City of Crescent City, Florida



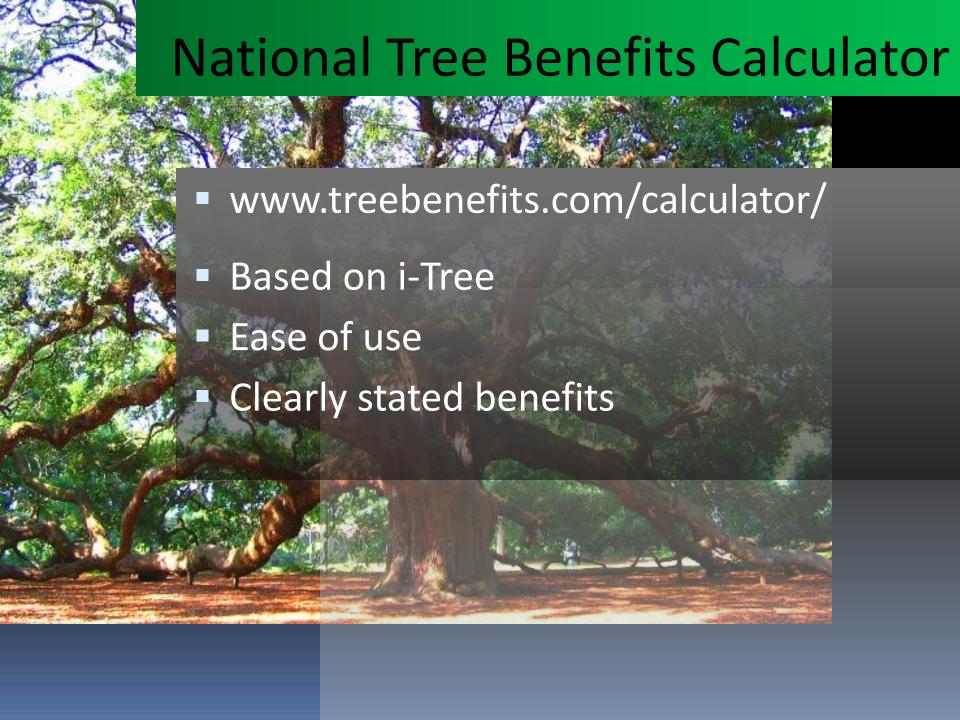
This project was made possible through funding from the US Department of Agriculture, US Forest Service Urban and Community Forestry Grant Program

i-Tree is Simple!

Perform a complete area or segment sample inventory

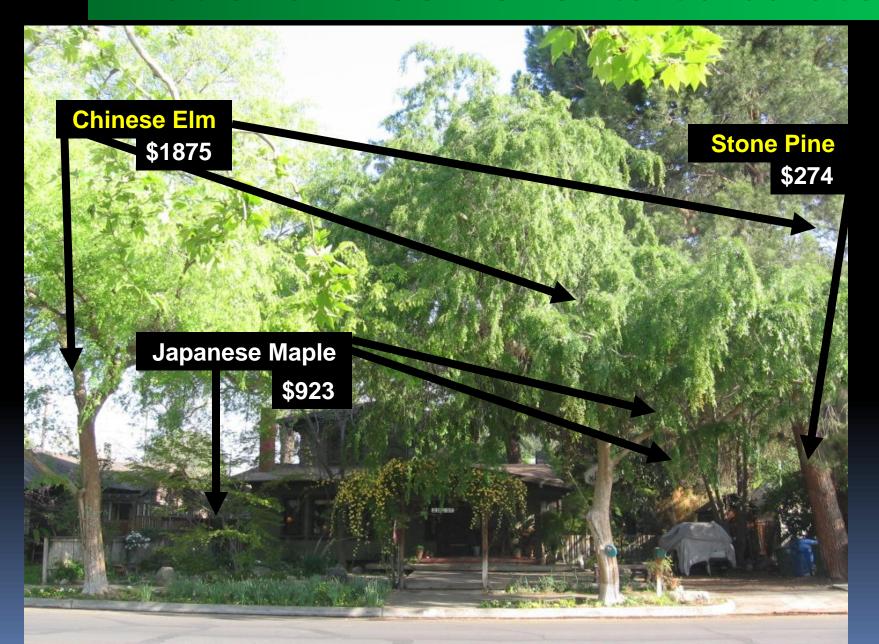
OR

- You have an existing tree inventory that contains at least these three fields:
 - DBH
 - Condition
 - Species



What do the dollar amounts mean?

- Stormwater Eliminate water run-off, source point pollution
- Property Values Aesthetics and "LVA"
- Energy Money that is NOT spent on heating and cooling
- Air Quality Absorption and Interception
- CO2 Sequestered and Avoided, Energy Savings

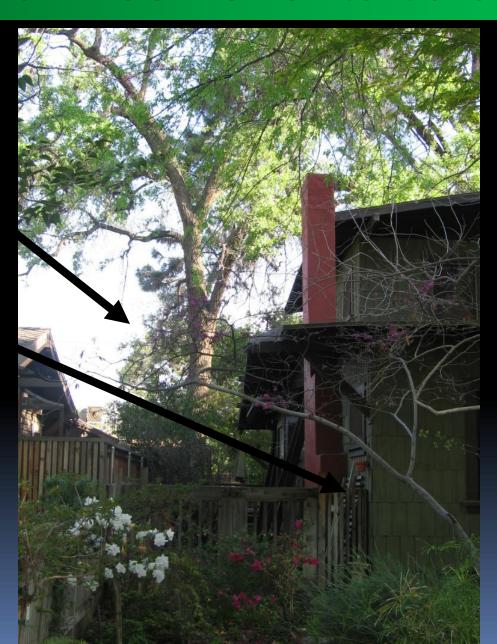


Valley Oak

\$515

Red Bud(s)

\$44



	DBH	Tree Value	Property Value	Electricity	Stormwater	Air Quality	CO2
Chinese Elm	26	\$ 598.00	\$ 504.52	\$ 43.42	\$ 15.06	\$ 33.48	\$ 3.21
Chinese Elm	28	\$ 679.00	\$ 577.25	\$ 46.09	\$ 16.53	\$ 36.04	\$ 3.28
Chinese Elm	26	\$ 598.00	\$ 504.52	\$ 43.42	\$ 15.06	\$ 33.48	\$ 3.21
Japanese Maple	7	\$ 233.00	\$ 212.71	\$ 10.54	\$ 2.25	\$ 6.05	\$ 1.18
Japanese Maple	8	\$ 245.00	\$ 221.67	\$ 12.45	\$ 2.66	\$ 7.17	\$ 1.41
Japanese Maple	8	\$ 245.00	\$ 221.67	\$ 12.45	\$ 2.66	\$ 7.17	\$ 1.41
Valley Oak	32	\$ 515.00	\$ 543.00	\$ 44.02	\$ 43.87	\$ -	\$ 3.65
Deodar Cedar	40	\$ 299.00	\$ 173.99	\$ 43.02	\$ 31.25	\$ 40.81	\$ 5.68
Stone Pine	32	\$ 274.00	\$ 179.83	\$ 33.17	\$ 24.11	\$ 29.11	\$ 4.53
Camphor	22	\$ 304.00	\$ 249.87	\$ 29.54	\$ 18.78	\$ 2.11	\$ 3.78
Chinese Pistache	22	\$ 215.00	\$ 178.76	\$ 20.27	\$ 5.23	\$ 10.29	\$ 1.51
Red Bud	3	\$ 22.00	\$ 19.45	\$ 1.22	\$ 0.38	\$ 0.97	\$ 0.09
Red Bud	3	\$ 22.00	\$ 19.45	\$ 1.22	\$ 0.38	\$ 0.97	\$ 0.09
Magnolia	14	\$ 81.00	\$ 53.23	\$ 12.66	\$ 6.93	\$ 5.99	\$ 1.00
Crape Myrtle	8	\$ 29.00	\$ 20.03	\$ 4.24	\$ 1.32	\$ 3.12	\$ 0.27
Total		\$4,359.00	\$3,679.95	\$ 357.73	\$ 186.47	\$ 216.76	\$ 34.30

Today's Road Trip

- Inventory Facts Planning & Purpose
- Results Based on Spec and/or BMP's
- Tools Education, Results, i-Tree
- Questions

