

City of Allen GIS Tree Inventory



Goals

- Establish a Benchmark for public tree inventory
- Use Volunteers to conduct tree inventory to save tax payers \$\$
- Determine tree species % and make recommendations for future plantings
- Determine Current Tree canopy percentage - 2000 USDA Data for Allen- 6%
- Use tree inventory data to determine other useful data such as heat island areas for planting, carbon production and intake, storm water run-off and market value of natural resources

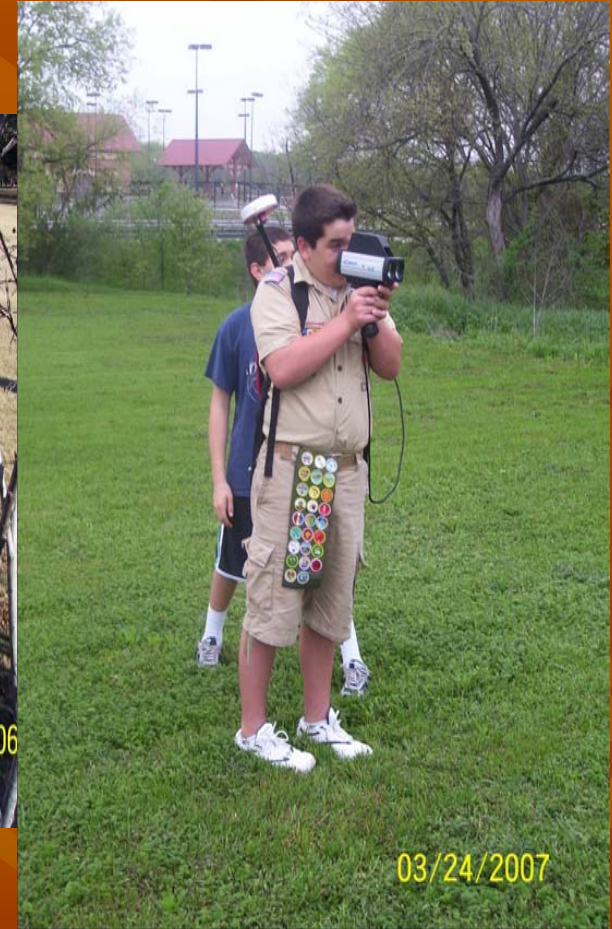
Obtained Funding

2003 Urban Forestry Partnership

Grant Program

Vendor	Equipment Items	Amount
AM Leonard	Tape Measures-Diameter,100',25'	\$ 193.30
Home Depot	Nails/Hammer/Tool belt	\$ 26.59
AM Leonard	Tree Tags	\$ 61.36
ICM Systems	Laser Gun	\$4,575.00
ICM Systems	Cable Connection	\$ 150.00
Totals		\$5,006.25

Range Finder- Measures Location and Height



Totals

- Volunteer Hours- 696
- Volunteer Contributions \$2193.40
- Volunteers 159
- Trees Inventoried (all Parks open space not including forested or floodplain areas) 3984

Code	Species	Cnt_Specie	% Total
HB	Hackberry	176	23%
LO	Live Oak	132	17%
CE	Cedar Elm	77	10%
CM	Crape Myrtle	71	9%
BC	Bald Cypress	65	8%
BO	Bur Oak	29	4%
CO	Chinquapin Oak	29	4%
RC	Eastern Red Cedar	29	4%
RO	Shum. Red Oak	26	3%
BO	Bois d' arc	25	3%
LE	Lacebark Elm	24	3%
SB	Soapberry	23	3%
BP	Bradford Pear	16	2%
CP	Chinese Pistachio	13	2%
RB	Eastern Red Bud	13	2%
PE	Pecan	11	1%
GA	Green Ash	10	1%
FS	Flame leaf Sumac	5	1%

Results

- **Benchmark Set for Public Trees**
- **Establish Maintenance schedule for preserving (pruning)
Existing trees- 1X / every 3 years-**
- **Increased tree canopy will cover up to 10% because of
park development within next 5 years**
- **Tree Canopy Goal -25% by 2015**

Recommendations

- **Plant More Oaks large canopy shade trees for the next ten years, including Shumard red oak, Bur oak and Chinquapin oak, Cedar elm, Pecan and Chinese Pistachio**
- **Plant resistant varieties of Cotton Root Rot disease**
- **Do not plant Crepe Myrtles or Bradford Pears in Public Areas. Plant less Bald Cypress- Water Conservation**
- **Plant more variety of drought tolerant Shade trees and Ornamental trees such as Red Bud, Flame leaf Sumac, Vitex, and Desert Willow**
- **Conduct next GIS Tree Inventory in 10 years starting in 2015**