



Urban Forestry

The Urban Forestry Department

- 12 - ISA Certified Arborists (International Society of Arboriculture)
- 2 - ISA Municipal Specialists
- 1 - ISA Tree Risk Assessor (Tree Risk Assessment Qualification)
- 5 - Pesticide Applicators
- 1 - TCIA Certified Tree Care Safety Professional
- FEMA National Incident Management System 100, 200, 300 and 800 Certified



Benefits of Trees

Social

- ✓ Reduces stress and fatigue
- ✓ Calms traffic
- ✓ Offers sense of place and connection

Communal

- ✓ Provide privacy
- ✓ Emphasis views
- ✓ Direct pedestrian traffic
- ✓ Soften, compliment, or enhance architecture

Trees bring natural elements and wildlife into urban surroundings...



Benefits of Trees

Environmental

- ✓ Reduces stormwater runoff
- ✓ Improves air quality
- ✓ Harbors wildlife
- ✓ Moderates local climate
- ✓ Reduces wind speed

Economic

- ✓ Increases property values (5-20%!)
- ✓ Increases productivity of commercial areas
- ✓ Reduces utility costs

Trees increase in value as they grow!



Tree Inventory

What Is a Tree Inventory?

Public tree inventories are a statistically reliable survey of publically owned and managed trees.

Inventories Define Attributes Like:



Species



Condition



Maintenance Issues



Infrastructure Conflicts



Tree Inventory



Uses For Tree Inventories:

Risk Management

Inventories identify trees requiring pruning and removal for safety concerns.

Population Identification

Improves management and future planning. Attributes of tree species can also be modeled for ecological and utility benefits.

Work History

Inventory data is used for service requests and tracking work history.

Tree Inventory

Emergency Preparation

Data characterizes high risk zones and distribution, better enabling first response and recovery.

Justified Budgets

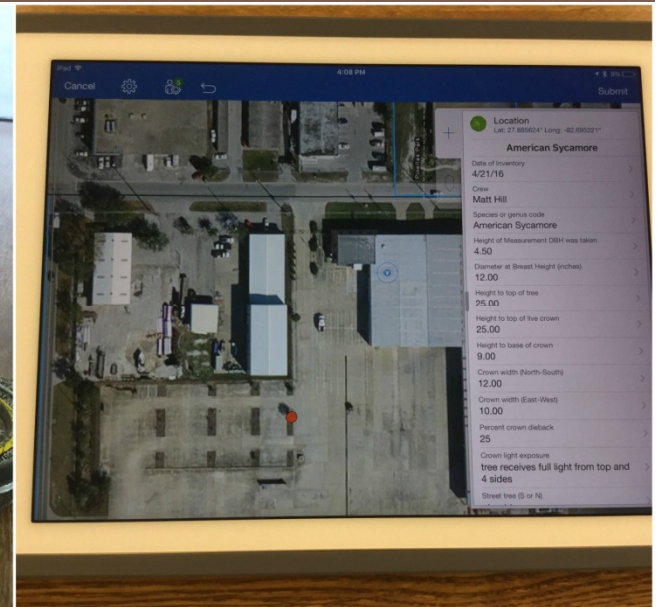
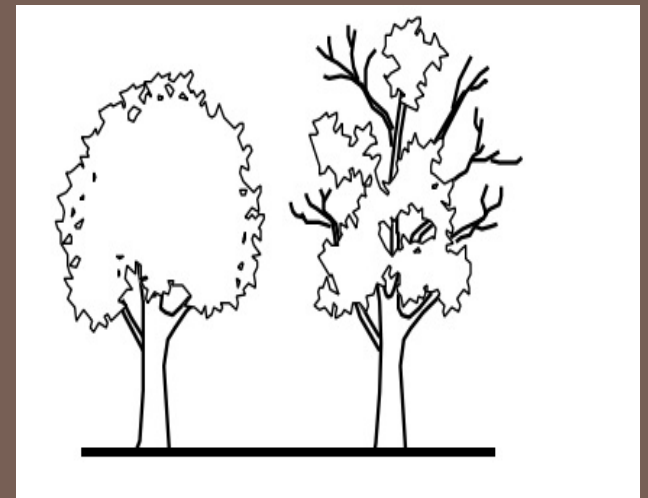
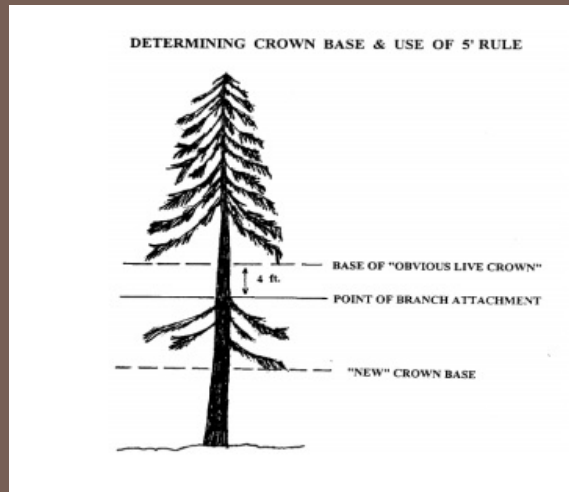
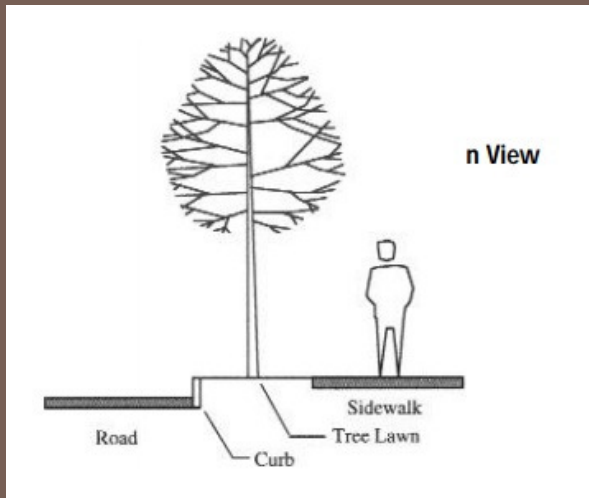
With accurate data, tasks and equipment can be associated with appropriate cost and support.



FEMA



Cityworks®



Field Collection

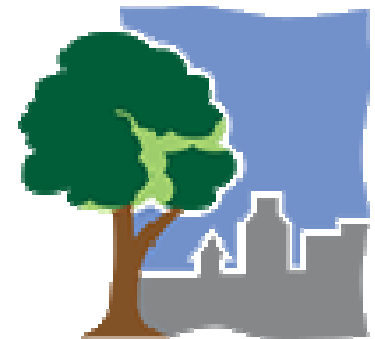
i-Tree

Eco
Canopy
Streets
Hydro
Design

i-Tree is a state-of-the-art, peer-reviewed software suite from the USDA Forest Service that provides urban forestry analysis and benefits assessment tools.

i-Tree Eco takes field data and forecasts:

- Urban forest structure
- Urban forest VOC emissions
- Pollution removal
- Carbon storage
- Utility benefits
- Tree pollen allergy index
- Pest risks



Looking Ahead



Comprehensive Plan



Outreach



Planting Program



*An urban forester is **proactive** not reactive...*