DEVELOPING AN URBAN FOREST MANAGEMENT PLAN

CITY OF TAMPA
MANAGEMENT PLANS

- STREET TREES
- NATURAL AREAS & PARKS
- PRIVATE PROPERTY
STREET TREE MANAGEMENT PLAN
ACTIVITIES

- PLANNING & INSPECTIONS
- TREE PLANTING
- TREE & PALM TRANSPLANTING
- TREE PRUNING
- PALM PRUNING & REMOVAL
- TREE & STUMP REMOVAL
- TRUCK WATERING & IRRIGATION
STREET TREE PLANNING
PLANTING CHECKLIST

- RIGHT TREE RIGHT PLACE
- STREET TREE PLAN
- REVIEW & PERMITTING
- UTILITY NOTIFICATION
- MAINTENANCE OF TRAFFIC
- EXECUTION & INVENTORY
- WATER & MAINTENANCE
TREE PLANTING & WATERING
STREET TREE INVENTORY

- F(SIZE OF URBAN FOREST & STAFFING)
- I-TREE STREETS
- FOCUS NEIGHBORHOOD ASSOCIATIONS
- WORK ORDERS PUBLIC: ADDRESS=BLOCK
- EXTEND BUDGET-MITIGATION BANK
TAMPA EXAMPLE

- **FOUR- TWO TEAM PRUNING CREWS = 3000 TREES/YEAR.**

- **ONE- FIVE TEAM REMOVAL CREW = 1250 TREES & STUMPS/YEAR.**

- **ONE- FIVE TEAM PLANTING CREW = 5000 TREES/YEAR.**
City of Tampa Urban Ecological Analysis 2006-2007
Executive Summary

In October 2006 the City of Tampa’s City Council directed the Parks and Recreation Department to oversee an ecological analysis of the city’s urban forest resources. This report describes the methodology used to conduct the inventory and assessment; quantifies the change in overall canopy coverage from 1996 to 2006; provides a three-dimensional description of the forest structure and composition; and provides a detailed look into some of the economic and ecological values of the City of Tampa’s urban forest. The outcomes from this study can serve as the basis for: enhancing the understanding of the urban forest’s values, improving urban forest policies, planning and management, and providing empirical data for the inclusion of trees within environmental regulations.

The University of South Florida combined the use of high resolution imagery (1 meter) and a more robust approach to spatial analysis than used in the 1996 study as part of its investigation into urban forest cover and distribution.

- Overall citywide tree cover increased between 1996 and 2006.
- Tree cover in 2006 appears to have returned to 1970’s levels.
- High-resolution 2006 land cover classification indicated the City of Tampa was comprised of 26% tree canopy, 25% other vegetation, 2% water, 4% bare sand or soil and 36% impervious surface.
- Residential, public/quasi-public, institutional and right-of-way were the top three land use categories in terms of acres of tree canopy, representing over 72% of the 21,718 acres of tree canopy within the City of Tampa.

During spring – early fall of 2007 the University of Florida School of Forest Resources and Conservation and Hillsborough County Extension established two hundred and one plots which were sampled and analyzed to determine the vegetative structure, functions, and values of the urban forest in Tampa.

Definitions of terms used in this report:

1. Urban Forest: Urban forests encompass the trees, shrubs, plants, and wild/domesticated animals that live in the area regardless of origin (native/non-native, naturally regenerated, or planted/introduced).
2. Forest Structure: A description of the distribution of vegetation both horizontally and vertically. Forest structure attributes are a function of the community of species.
3. Forest Function: determined by forest structure and includes a wide range of environmental and ecosystem services.
4. Forest Value: an estimate of the ecological and economic worth of the various forest functions.

Summary of Tampa’s Urban Forest and associated functional values:

<table>
<thead>
<tr>
<th>Feature</th>
<th>Measure</th>
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<tbody>
<tr>
<td>Number of Trees</td>
<td>7,917,408</td>
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<tr>
<td>Tree Cover</td>
<td>29.1%</td>
</tr>
<tr>
<td>Top 3 Species</td>
<td>red mangrove, Brazilian pepper, black mangrove</td>
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<tr>
<td>Proportion of Trees &lt;6-inches DBH</td>
<td>84%</td>
</tr>
<tr>
<td>Pollution Removal</td>
<td>1,385 tons/year ($6.3 million/yr)</td>
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<tr>
<td>Carbon Storage</td>
<td>$11,141 tons ($10,363,389)</td>
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<tr>
<td>Gross Carbon Sequestration</td>
<td>48,525 tons/year ($346,356/yr)</td>
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<tr>
<td>Value of Energy Conservation</td>
<td>$4,205,623</td>
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<tr>
<td>Compensation Value</td>
<td>$1,466,929,097</td>
</tr>
</tbody>
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City of Tampa Urban Ecological Analysis 2006-2007 full report available at http://www.tampagov.net/dept_parks_and_recreation
MANAGEMENT PLANS

- STREET TREES
- NATURAL AREAS & PARKS
- PRIVATE PROPERTY
PRESCRIBED BURNING
Imperata cylindrica
Conradina grandiflora
SHORELINE STABILIZATION
MANAGEMENT PLANS

- STREET TREES
- NATURAL AREAS & PARKS
- PRIVATE PROPERTY
PLAN REVIEW & PERMITTING

TREE ORDINANCE
PUBLIC OUTREACH & GRAND TREES