



2011 Drought

Houston/Harris County Pecuniary Impact





What Happened?

- Below average rainfall
 - 24.57" in 2011
 - 25" deficit
 - 32" deficit 2010 – 11
- Excessive Temperatures
 - 45 days > 100
 - 24 days in a row
- Over mature trees
- Dense understory
- Site Change





Perfect Storm





Affect on Public Entities

- Electric Utilities
- City, County, State Agencies
 - Parks
 - Streets
 - Solid Waste
- School Districts
- Flood Control/Water Management Districts
- Volunteer Groups and Non-Profits





Associated Costs and Lost Values



- Removal
- Disposal
- Watering
- Lost Eco Services Value
 - Stormwater
 - Carbon
 - Pollutants
- Replacement Value
 - CTLA





Associated Costs and Lost Values

- Removals – Totals
 - 48,165 trees
 - \$10,093,000
 - \$200/tree
- Projected in 2012 (incomplete info)
 - 4,871 trees
 - \$975,000
- Disposal
 - Rolled into removal costs
 - CoH 200,000 cubic yards
- Watering (TFH)
 - \$153,000
 - 5,590 trees (5 times/month)
 - \$27.37/tree
 - 400 volunteer hours
- Grand Totals (without projections)
 - 53,755 trees
 - \$10,246,860





Associated Costs and Lost Values



- Lost Eco Services Value - **\$722,500/yr**
- Replacement Value - **\$9,981,868**

Based on average 12" dbh (75% pine, 25% hardwood)



Questions?

