

2011 Drought

Houston/Harris County Pecuniary Impact

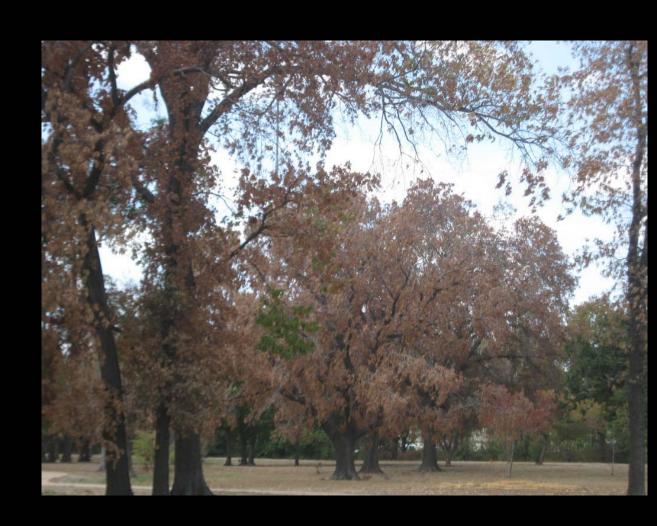






What Happened?

- 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**







