

Trees and Air Quality

Trees not only provide clean oxygen, they also capture (or sequester) and store:

- carbon monoxide (CO)
- carbon dioxide (CO2)
- ground level ozone (O3)
- introgen oxides (NOx)
- sulfur dioxide (SO2)
- articulate matter

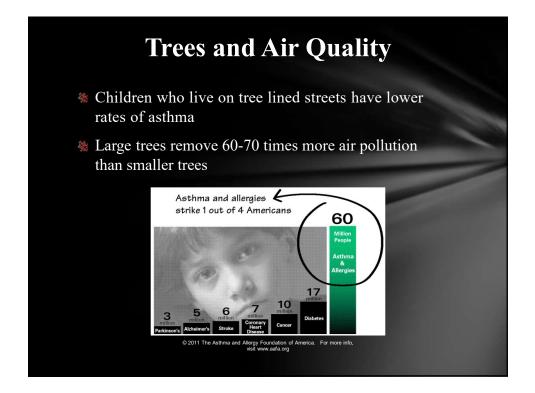


Trees and Air Quality

According to the USDA Forest Service, Pacific Southwest Research Station, each year 100 large mature trees will...

- Remove 17 tons of carbon dioxide (CO2)
- Remove 137 pounds of other air pollutants







Trees and Water

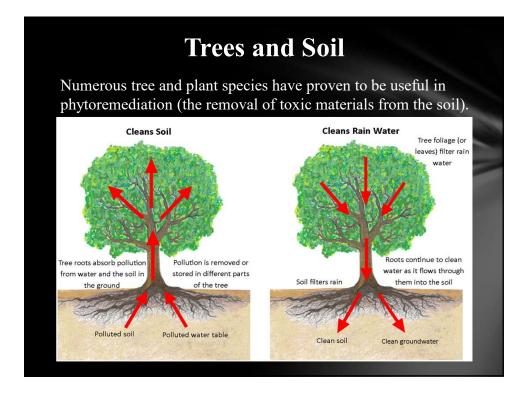
- Trees reduce storm water runoff and flooding by slowly filtering and cleaning rainwater as it travels thru the leaves and limbs to the ground
- The water either evaporates or it is absorbed, cleaned and released through transpiration
- The canopy of a large tree can reduce surface runoff from a one-inch rain over 12 hours by 17%
- Planting trees along streams helps to control water flow and soil runoff



Trees and Water

- & Like to fish?
- Trees help by stabilizing banks, reducing water temperatures due to the shade as well as trapping and filtering pollutants
- Limbs and trunks in the water also create habitat and protection from predators







Trees and Health



A view of trees and nature help hospital patients recover quicker and with fewer medications.

Being around trees and nature encourages physical activity and "walkable" communities.

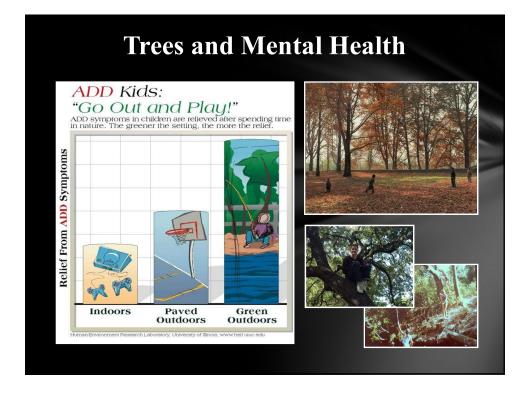
Trees and Mental Health

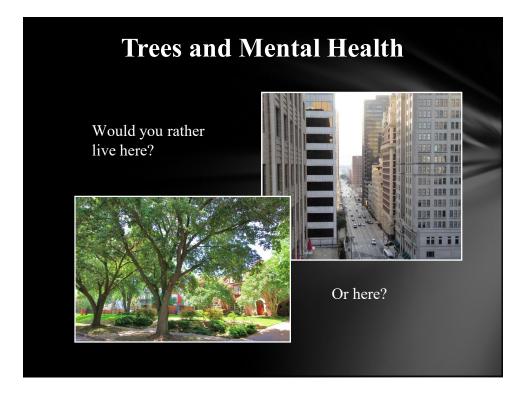
Being around trees and nature...

- Reduces the stress of living in the city
- Reduces domestic violence and levels of aggression and crime
- Increases social interaction
- Solks feel safer
- Reduces levels of ADD and ADHD (Attention Deficit Hyperactivity Disorder)



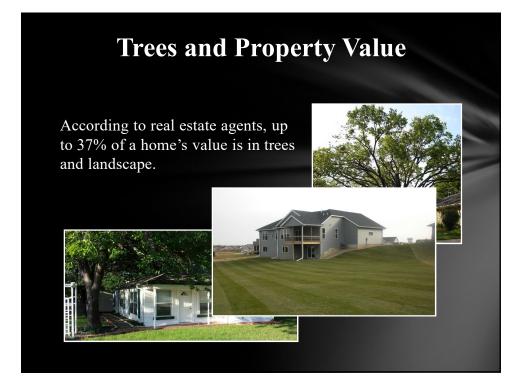








<text><text><image><text>



<section-header><text><text><text><image>

10

Before I go dormant... are there any questions?



Thank you!! Steve Houser <u>Steve.Houser@TxHTC.org</u>