

# Annual Benefits Breakdown

## Stormwater Intercepted

Trees reduce stormwater runoff and help regulate stream flows. Water runoff from surfaces like roadways and parking lots wash chemicals like oil or gasoline into streams, wetlands, rivers and oceans. These chemicals may harm drinking water, aquatic life and the ecosystem.

Find an interactive poster at <http://www.arborday.org/trees/stormwater.cfm>

## Air Quality

Trees improve air quality. Leaves absorb air pollution that causes asthma, coughing and other health issues. Leaves also help remove dust and other matter from the air, then rain washes it to the ground.

## Carbon Dioxide

Trees help reduce atmospheric carbon. They absorb carbon dioxide during photosynthesis. Trees store carbon dioxide in their roots, trunks and leaves while they grow.

## Energy Savings

Trees alter climate and conserve energy use. Trees help buildings use less energy. In summer, trees shading east and west walls keep buildings cooler. In winter, allowing the sun to shine on the southern side of a building can warm inside spaces. Trees slow down winds around buildings and help decrease heat loss.

Find an animated model showing trees around a house at

1. [http://texastreeplanting.tamu.edu/energy\\_efficiency.html](http://texastreeplanting.tamu.edu/energy_efficiency.html)
2. <http://www.arborday.org/globalwarming/summerShade.cfm>

## Property Value

Trees in front of homes increase property value. Research has verified this by showing that homebuyers are willing to pay more for properties with more trees.

## Resources:

National Tree Benefit Calculator

<http://treebenefits.com/calculator/>

USDA Forest Service Center for Urban Forest Research

<http://www.fs.fed.us/psw/programs/uesd/uep/>

Arbor Day Foundation

<http://arborday.org/trees/index-benefits.cfm>

International Society of Arboriculture Consumer Information Program

<http://treesaregood.org/>



Every year,  
**1 large tree**



Retains  
**1000 gallons**  
of rainwater



Absorbs the carbon  
dioxide of a car driven  
**500 miles**



Generates  
**260 pounds**  
of oxygen



**Saves \$32** in  
summertime air  
conditioning



Provides a home for  
**1-3 species** of  
wildlife

