The City of Phoenix urban tree population as a whole stores 305,000 tons of carbon and removes 35,400 tons of carbon from our air each year (valued at $2.52 million/year). Trees remove enough carbon to offset 10,412 cars per year - based on a 25mpg car traveling 12,000 miles/year and producing 14 lbs of CO2 per gallon of gas.

POLLUTION REMOVAL
Trees within the City of Phoenix intercept 1,770 tons/year of air pollution (valued at $5.76 million/year).

STORMWATER RUNOFF
Trees within the City of Phoenix reduce stormwater runoff by 91.7 million cubic feet per year. That is enough water to fill approximately 23,000 swimming pools (based on an average pool size of 4,000 cubic feet); valued at $6.11 million/year.

ENERGY USE
It is estimated in the City of Phoenix that trees reduce energy-related costs from residential buildings by $22.9 million annually.

PROVIDE SHADE
Trees in the City of Phoenix account for 9% shade within the city. That is shade equivalent to 107,186,640 umbrellas or approximately 186,000 football fields.

Total Annual Value in Urban Tree Benefits: $40.25 million/year
Combined values for annual benefits provided for pollution removal, carbon sequestration, carbon avoidance, energy savings, and storm water avoidance.

Total Structural Value in Urban Trees: $3.842 billion
Structural Value is the standing value of each tree plus the carbon it stores.
The City of Phoenix population.

Phoenix encompasses 519 square miles of land.

These numbers are more than simple statistics; they are contributing factors to the increasing intensity of the city’s urban heat island (UHI).

The UHI effect equates to increased energy and water consumption, which leads to increased costs and strained resources.

Average number of days per year of 100°F or more in Phoenix.

The City of Phoenix population as a whole stores 305,000 tons of carbon and removes 35,400 tons of carbon from our air each year valued at $2.52 million per year.

Air pollution

Trees within the City of Phoenix intercept 1,770 tons/year of air pollution. Valued at $5.76 million/year.

Stormwater Runoff

Trees within the City of Phoenix reduce stormwater runoff by 91.7 million cubic feet/year valued at $6.11 million/year.

Carbon Sequestration

$2.52 million/year