

BENEFITS OF URBAN TREES

..... The life of a tree is an important one. An acre of average trees gives almost



20 people >

annually the gift of clean air and shade, but did you know the benefits of trees extend to other areas of our lives?



ENERGY SAVINGS



1 tree = 10 air conditioners

"The net cooling effect of a young, healthy tree is equivalent to 10 room-size air conditioners operating 20 hours a day."

- U.S. DEPARTMENT OF AGRICULTURE

"Trees properly placed around buildings can reduce air conditioning needs by 30% and can save 20% to 50% in energy used for heating."

- U.S. FOREST SERVICE

ONE large tree can provide enough oxygen for up to ...

4 people's daily needs. - NC STATE UNIVERSITY



Annual energy benefits of KCMO street trees are

9,438,300 Therms

of natural gas saved/year due to the trees reducing heating and cooling demand for buildings. This covers the annual natural gas usage of about 13,500 homes.

A mature tree can often have an appraised value between \$1,000 - \$10,000.

PROPERTY VALUES



Trees enhance community economic stability by attracting businesses and tourists.



People linger and shop longer along tree-lined streets.

Apartments and offices in wooded areas rent more quickly and have higher occupancy rates.



Kansas City's street trees are returning benefits to the city valued at approximately ... annually or \$123/tree/year for the city's existing street tree population of 135,000 trees.

\$16,605,000

ENVIRONMENTAL

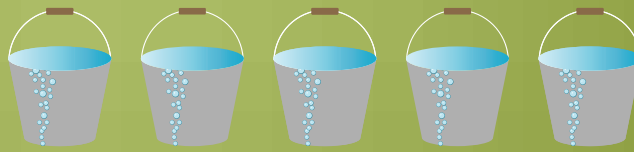
48 lbs CO₂



A single tree can soak up 48 pounds of carbon dioxide in a year and produce enough oxygen to sustain four people.

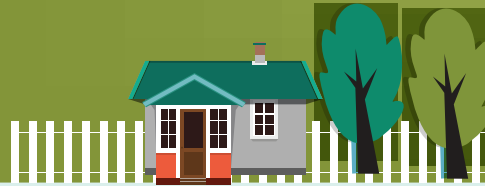
In KCMO there are 859,670 tons of carbon sequestered in existing street trees.

605,702,000 gallons



In KCMO, an estimated 605,702,000 gallons per year of rainfall are intercepted by street trees, saving the city about \$16,416,000 per year in management costs.

Wooded areas help prevent the transport of sediment and chemicals into streams.



The planting of trees means less runoff and erosion, resulting in improved water quality. This allows more recharging of the ground water supply.

- U.S. FOREST SERVICE