

# GROWING A HEALTHIER COMMUNITY

## KEY TREES – ALBUQUERQUE



**PLAINS COTTONWOOD**  
*Populus deltoides*  
height 60'-80'  
canopy 35'-60'



**HONEY LOCUST**  
*Gleditsia triacanthos*  
height 30'-75'  
canopy 30'-60'



**SYCAMORE**  
*Platanus racemosa*  
height 35'-70'  
canopy 40'-60'



**LONDON PLANE**  
*Platanus x acerifolia*  
height 35'-70'  
canopy 40'-60'



**BRADFORD PEAR**  
*Pyrus calleryana*  
height 40'-60'  
canopy 30'-40'



**GOLDEN RAIN TREE**  
*Koelreuteria paniculata*  
height 30'-40'  
canopy 30'-40'



**MEXICAN ELDER**  
*Sambucus mexicana*  
height 10'-20'  
canopy 10'-20'



**WESTERN RED CEDAR**  
*Thuja plicata*  
height 60'-80'  
canopy 40'-50'



**DEODAR CEDAR**  
*Cedrus deodara*  
height 60'-80'  
canopy 40'-50'



**CHINESE PISTACHE**  
*Pistacia chinensis*  
height 45'-65'  
canopy 35'-45'

**Total Annual Value in Urban Tree Benefits: \$8.97 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: \$1.93 billion**

Structural Value is the standing value of each tree plus the carbon it stores.

## SUMMARY OF KEY FINDINGS



### Key Highlights

#### POLLUTION REMOVAL

Trees within the City of Albuquerque remove 366 tons of air pollution annually, a service valued at \$11 million/year. Trees are most effective at reducing ozone and particulate. These pollutants are of special concern to Albuquerque because they can occur at levels that exceed EPA air quality standards.

#### AIR QUALITY

The City of Albuquerque urban tree population stores 226,000 tons of carbon and removes 9,710 tons of carbon from our air each year (valued at \$692,000 annually). Albuquerque trees remove enough carbon to offset emissions from 5,800 cars per year.

#### STORMWATER RUNOFF

Albuquerque's urban trees reduce stormwater runoff by 51.4 million cubic feet per year, helping to stop pollutants like oil, antifreeze, detergents, and pesticides from washing untreated into the Rio Grande.

#### ENERGY USE

Albuquerque's trees are estimated to reduce energy-related costs from residential buildings by \$3.3 million annually.

#### SHADE

Trees in Albuquerque account for 13.3% shade within the city – equivalent to 54 million umbrellas.



Produced in cooperation with the USDA Forest Service, which is an equal opportunity service provider and employer

DATA	ALBUQUERQUE
Number of Trees	1,504,000
Project Study Area	132.2 sq mi (342 sq km) 84,626 acres
City Land Area	181 sq mi (469 sq km) 115,840 acres
Number of Species Sampled	76
Tree Cover	13.3% -22.2 trees/acre
Most Common Species	Siberian Elm 24.6% Desert Olive 5.6% Desert Willow 5.6%
Percentage of Trees less than 6" DBH* DBH is the diameter at 4.5 feet above ground	59.9%
 Pollution Removal	366 tons/year (\$1.1 million/year)
 Carbon Sequestration	9,710 tons/year (\$692 thousand/year)
 Carbon Storage	226,000 tons/year (\$161 million/year)
 Avoided Carbon Emissions	\$448 thousand/year
 Oxygen Production	21,300 tons/year
 Building Energy Savings	\$3.31 million/year
 Avoided Stormwater Runoff	51,386,000 cu ft (\$3.42 million/year)
 Replacement Values	\$1.93 billion (\$1,283/tree)

