

GROWING A HEALTHIER COMMUNITY

KEY TREES – EL PASO



LACEBARK ELM
Ulmus parvifolia
height 40'-60'
canopy 35'-40'



TEXAS HONEY MESQUITE
Prosopis spp
height 12'-20'
canopy 35'-45'



WESTERN SOAPBERRY
Sapindus saponaria var. drummondii
height 30'-50'
canopy 30'-40'



MEXICAN WHITE OAK
Quercus polymorpha
height 60'-80'
canopy 40'-60'



TEXAS MOUNTAIN LAUREL
Calia secundiflora
height 13'-20'
canopy 30'-50'



DESERT WILLOW
Chilopsis linearis
height 15'-40'
canopy 30'-50'



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



ITALIAN STONE PINE
Pinus pinea
height 40'-70'
canopy 25'-30'



LIVE OAK
Quercus virginiana
height 40'-60'
canopy 50'-80'



ALLIGATOR JUNIPER
Juniperus deppeana
height 50'-80'
canopy 75'-85'

Total Annual Value in Urban Tree Benefits: \$6.05 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: \$1.63 billion

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

SUMMARY OF KEY FINDINGS



Key Highlights

AIR QUALITY

El Paso's trees store 92,800 tons of carbon as a whole and annually remove 7,430 tons of carbon. This is equivalent to removing 55,700 cars off our roads each year.

POLLUTION REMOVAL

El Paso's trees intercept 318 tons of pollutants each year valued at \$247,100.

STORMWATER RUNOFF

El Paso's trees reduce runoff by 32.9 million cubic feet of water per year.—valued at saving the city 2.19 million dollars each year.

ENERGY USE

It is estimated in the City of El Paso that trees reduce energy-related costs from residential buildings by \$2.7 million annually.

DATA	EL PASO
Number of Trees	1,281,000
Project Study Area	158.2 sq mi (410 sq km) 101.23 acres
City Land Area	256 sq mi (663 sq km) 163,840 acres
Number of Species Sampled	50
Tree Cover	5.1% – 12.7 trees/acre
Most Common Species	Italian Cypress 25.8% Afghan Pine 10.8% Mexican Fan Palm 7.3%
Percentage of Trees less than 6" DBH* DBH is the diameter at 4.5 feet above ground	53.4%
 Pollution Removal	318 tons/year (\$247 thousand/year)
 Carbon Sequestration	7,430 tons/year (\$529 thousand/year)
 Carbon Storage	92,800 tons/year (\$6.61 million/year)
 Avoided Carbon Emissions	5,394 tons/year (\$384 thousand/year)
 Available Planting Spaces	60%
 Building Energy Savings	\$2.7 million/year
 Avoided Stormwater Runoff	32,867,000 cu ft (\$2.19 million/year)
 Replacement Values	\$1.02 billion (\$796/tree)



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

