

BENEFITS OF ALBUQUERQUE'S URBAN TREES



Trees make cities livable

SOCIAL

- » **Improve human health + well being**
trees alleviate mental fatigue, reduce stress, and lessen exposure to ultra-violet rays
- » **Inspire active lifestyles**
tree-lined streets foster active recreation, thus reducing obesity and heart disease
- » **Buffer noise pollution + unattractive views**
trees reduce the perception of urban noise and mitigate the impacts of unpleasant views
- » **Support education**
the proximity and view of trees helps students learn more effectively
- » **Reduce violence**
the presence of tree canopy is associated with a decrease in crime
- » **Increase social interaction**
trees provide shade and increase human comfort, which encourages people to be outside with other people

ENVIRONMENTAL

- » **Improve air quality**
leaves absorb pollutants and intercept particulates
- » **Improve water quality**
trees reduce soil erosion, increase rainwater infiltration, and slow stormwater runoff
- » **Sequester carbon**
trees absorb and store carbon dioxide that is accumulating in our atmosphere while releasing oxygen through photosynthesis
- » **Combat heat island effect**
trees convert water into vapor (evapotranspiration) which cools the air

ECONOMIC

- » **Create economic opportunities**
trees increase property values and positively affect economic stability
- » **Reduce flood risks**
trees absorb stormwater, reduce erosion, and diffuse intense rainfall
- » **Reduce energy costs**
tree canopies create shade which reduces use of air conditioners and buffer buildings from winds which reduces heating costs
- » **Reduce healthcare costs**
views of trees speeds up recovery times and reduces the use of pain medications



London Plane Trees at Albuquerque's Convention Center

SUMMER HEAT IN

ALBUQUERQUE

UP TO 22.00°

HOTTER IN THE CITY THAN
IN NEARBY RURAL AREAS

AVERAGE 5.9°

CITY SUMMERS ARE HOTTER
THAN IN RURAL AREAS

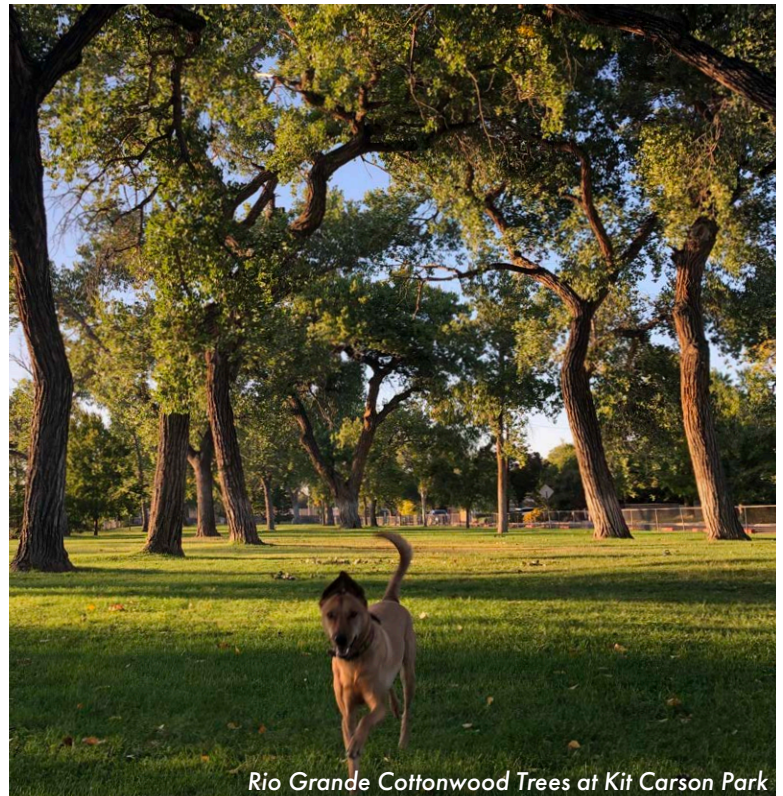
25

MORE DAYS ABOVE 90°F EACH YEAR,
THAN RURAL AREAS

No. 2

BIGGEST DIFFERENCE BETWEEN
URBAN AND RURAL TEMPERATURES

data from climatecentral.org, 2014



Rio Grande Cottonwood Trees at Kit Carson Park

Trees mitigate the heat island effect and cool Albuquerque while creating enjoyable, comfortable places.

ONE ALBUQUERQUE URBAN FOREST & GREEN INFRASTRUCTURE



Rio Grande Cottonwoods at Arbolera de Vida, Sawmill Surge Pond

Utilizing stormwater runoff to support Albuquerque's **URBAN FOREST** is a resilient strategy that limits the use of potable water while decreasing flooding, protecting water quality, and cooling the city. **GREEN STORMWATER INFRASTRUCTURE** utilizes constructed features to manage stormwater by leveraging the ecological functions of living systems. Managing stormwater and urban runoff as a resource creates new opportunities for investing in resiliency and creating a more livable and vibrant city. Arbolera de Vida and Sawmill Park both serve as surge ponds for intense storm events.

A healthy urban forest will benefit Albuquerque's economy, ecology, and quality of life.

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ALBUQUE
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SABATINI**

ARCHITECTURE
DESIGN
INSPIRATION