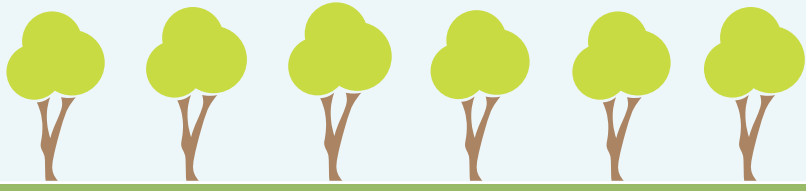


# TREES & AIR QUALITY

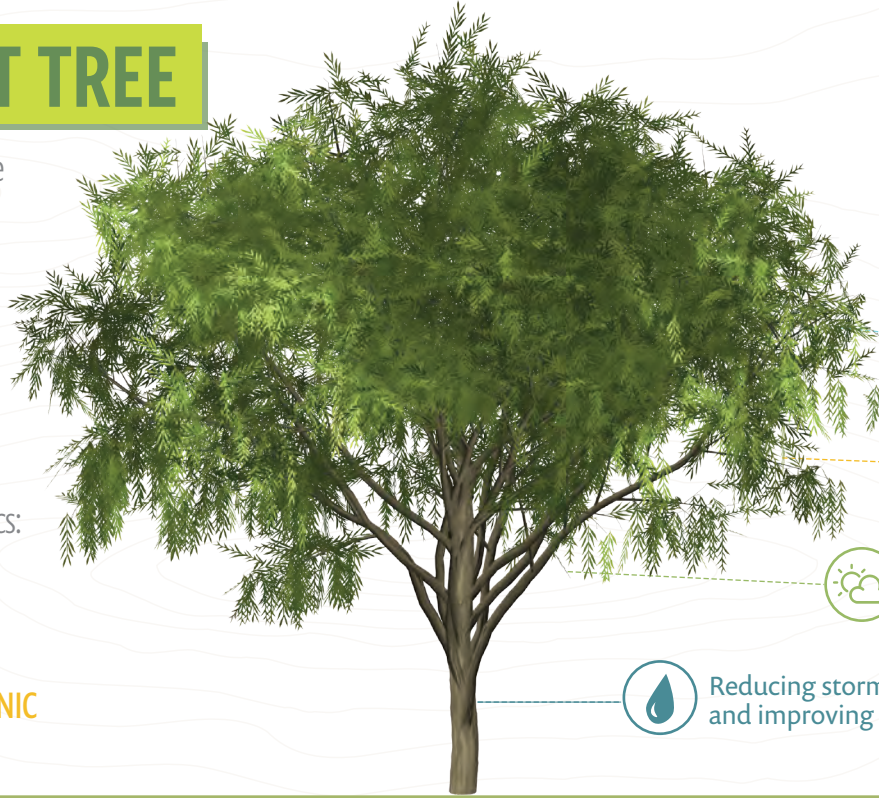
## in MARICOPA COUNTY



### SELECTING THE RIGHT TREE

Mature trees provide numerous benefits when they are appropriately matched to specific site conditions. Among other factors, tree selection should consider available space above and below ground including overhead powerlines, underground utilities, buildings and pedestrian/vehicular traffic. Considering air quality should also be a priority when selecting the right tree. The trees listed below were selected and are recommended because of their following characteristics:

- SONORAN DESERT NATIVE / NON-INVASIVE
- LOW TO MODERATE WATER USAGE
- LOW TO MODERATE BIOGENIC VOLATILE ORGANIC COMPOUNDS (BVOCs) EMISSIONS



Trees in urban areas improve human health and the environment by:

- Improving air quality by removing airborne pollutants and particulates
- Providing shelter and food for birds and wildlife
- Producing shade that reduces energy demand and the intensity of urban heat islands.
- Reducing stormwater runoff and improving water quality



#### NETLEAF/WESTERN HACKBERRY

*Celtis reticulata*

- HEIGHT: 25-35'
- ANNUAL GROWTH RATE: 24"
- CANOPY SIZE: 25-30'

- ALLERGENIC  
 Low  Moderate  High
- ROOT DAMAGE POTENTIAL  
 Low  Moderate  High
- POWERLINE FRIENDLY  
 Yes  No
- EDIBLE FRUIT PRODUCING  
 Yes  No



#### ROUGH-BARKED ARIZONA CYPRESS

*Callitropsis arizonica*

- HEIGHT: 40-50'
- ANNUAL GROWTH RATE: 12-36"
- CANOPY SIZE: 20'

- ALLERGENIC  
 Low  Moderate  High
- ROOT DAMAGE POTENTIAL  
 Low  Moderate  High
- POWERLINE FRIENDLY  
 Yes  No
- EDIBLE FRUIT PRODUCING  
 Yes  No



#### DESERT WILLOW

*Chilopsis linearis*

- HEIGHT: 15-30'
- ANNUAL GROWTH RATE: 24-36"
- CANOPY SIZE: 10-20'

- ALLERGENIC  
 Low  Moderate  High
- ROOT DAMAGE POTENTIAL  
 Low  Moderate  High
- POWERLINE FRIENDLY  
 Yes  No
- EDIBLE FRUIT PRODUCING  
 Yes  No



#### ARIZONA/VELVET ASH

*Fraxinus velutina*

- HEIGHT: 30-50'
- ANNUAL GROWTH RATE: 36"
- CANOPY SIZE: 30-40'

- ALLERGENIC  
 Low  Moderate  High
- ROOT DAMAGE POTENTIAL  
 Low  Moderate  High
- POWERLINE FRIENDLY  
 Yes  No
- EDIBLE FRUIT PRODUCING  
 Yes  No





## DESERT FERN

*Lysiloma watsonii*

HEIGHT: 12-15'

ANNUAL GROWTH RATE: 24"

CANOPY SIZE: 12-15'

ALLERGENIC  
 Low  Moderate  High

ROOT DAMAGE POTENTIAL  
 Low  Moderate  High

POWERLINE FRIENDLY  
 Yes  No

EDIBLE FRUIT PRODUCING  
 Yes  No



## PALO BLANCO

*Mariosousa willardiana*

HEIGHT: 10-20'

ANNUAL GROWTH RATE: 12-24"

CANOPY SIZE: 15-20'

ALLERGENIC  
 Low  Moderate  High

ROOT DAMAGE POTENTIAL  
 Low  Moderate  High

POWERLINE FRIENDLY  
 Yes  No

EDIBLE FRUIT PRODUCING  
 Yes  No



## BLUE PALO VERDE

*Parkinsonia florida*

HEIGHT: 25'

ANNUAL GROWTH RATE: 36"

CANOPY SIZE: 15-20'

ALLERGENIC  
 Low  Moderate  High

ROOT DAMAGE POTENTIAL  
 Low  Moderate  High

POWERLINE FRIENDLY  
 Yes  No

EDIBLE FRUIT PRODUCING  
 Yes  No



## YELLOW PALO VERDE

*Parkinsonia microphylla*

HEIGHT: 20'

ANNUAL GROWTH RATE: 36"

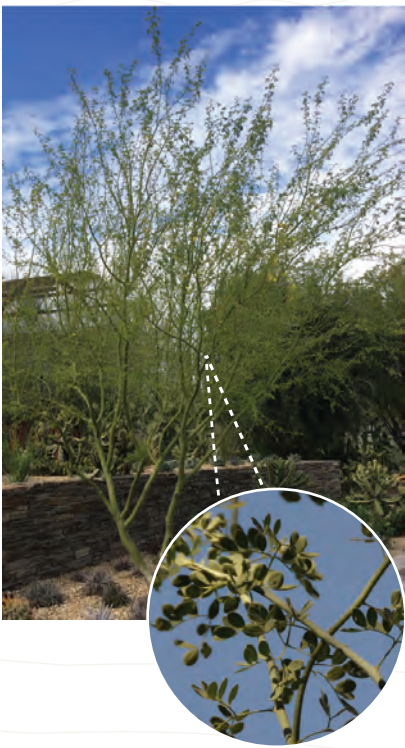
CANOPY SIZE: 20'

ALLERGENIC  
 Low  Moderate  High

ROOT DAMAGE POTENTIAL  
 Low  Moderate  High

POWERLINE FRIENDLY  
 Yes  No

EDIBLE FRUIT PRODUCING  
 Yes  No



## SONORAN PALO VERDE

*Parkinsonia praecox*

HEIGHT: 20'

ANNUAL GROWTH RATE: 36"

CANOPY SIZE: 20'

ALLERGENIC  
 Low  Moderate  High

ROOT DAMAGE POTENTIAL  
 Low  Moderate  High

POWERLINE FRIENDLY  
 Yes  No

EDIBLE FRUIT PRODUCING  
 Yes  No



## WHITETHORN ACACIA

*Vachellia constricta*

HEIGHT: 10-20'

ANNUAL GROWTH RATE: 24"

CANOPY SIZE: 10-20'

ALLERGENIC  
 Low  Moderate  High

ROOT DAMAGE POTENTIAL  
 Low  Moderate  High

POWERLINE FRIENDLY  
 Yes  No

EDIBLE FRUIT PRODUCING  
 Yes  No

## DESERT SWEET ACACIA

*Vachellia farnesiana*

HEIGHT: 15-25'

ANNUAL GROWTH RATE: 24-36"

CANOPY SIZE: 15-25'



ALLERGENIC  
 Low  Moderate  High

ROOT DAMAGE POTENTIAL  
 Low  Moderate  High

POWERLINE FRIENDLY  
 Yes  No

EDIBLE FRUIT PRODUCING  
 Yes  No