

Suitability of common central Arizona urban trees for use in commercial parking lots. This list was prepared by Dr. Chris A. Martin for the Arizona Community Tree Council, June 2004.

Scientific name	Common name	Heat tolerance	Water requirement	Parking lot suitability	Special Notes
<i>Acacia aneura</i>	mulga	Excellent	Low	Fair	High heat tolerance, but generally too small
<i>Acacia minuta</i>	sweet acacia	Good	Low	Fair	Prominent spines, basal suckers, seasonal litter
<i>Acacia saligna</i>	blue leaf wattle	Good	Low/Medium	Poor	Brittle wood, seasonal litter
<i>Acacia salicina</i>	weeping acacia	Excellent	Low/Medium	Good	Extensive training when young
<i>Acacia schaffneri</i>	medusa acacia	Good	Low	Poor	Extensive training, seasonal litter, spines
<i>Acacia stenophylla</i>	shoestring acacia	Excellent	Low	Good	Light shade, moderately dense wood
<i>Acacia willardiana</i>	palo blanco	Excellent	Low	Poor	Low shade capacity
<i>Afrocarpus gracilior</i>	fern pine	Poor	High	Poor	Heat intolerant
<i>Ailanthus altissima</i>	tree of heaven	Fair	Medium/High	Poor	Undesirable lower desert tree
<i>Araucaria heterophylla</i>	Norfolk Island pine	Poor	High	Poor	Heat intolerant
<i>Bauhinia variegata</i>	orchid tree	Fair	Medium	Poor	Seasonal litter problem, heat sensitive
<i>Brachychiton populneus</i>	bottle tree	Good	Medium	Good	Trunk sunscald
<i>Caesalpinia cacalaco</i>	casalote	Excellent	Low	Poor	Too small
<i>Carya illinoensis</i>	pecan	Fair	High	Poor	Prone to trunk sunscald
<i>Callistemon viminalis</i>	weeping bottle tree	Good	Low/Medium	Fair	Seasonal litter, brittle wood
<i>Ceratonia siliqua</i>	carob tree	Excellent	Low/Medium	Fair	Wide spreading, prone to heart rot
<i>Chilopsis linearis</i>	desert willow	Excellent	Low/Medium	Fair	Copious basal trunk suckers
<i>Citrus species</i>	citrus	Fair	High	Poor	Highly prone to trunk sunscald
<i>Cupressus sempervirens</i>	Italian cypress	Excellent	Low	Poor	Lacks shade potential
<i>Dalbergia sissoo</i>	Indian rosewood	Good	Medium	Fair	Root suckers, trunk sunscald
<i>Ebenopsis ebano</i>	Texas ebony	Excellent	Low	Fair	Slow growth rate, spines
<i>Eucalyptus camaldulensis</i>	Murray red gum	Good	Low/Medium	Poor	Limb failure
<i>Eucalyptus citriodora</i>	lemon scented gum	Good	Low/Medium	Poor	Low shade potential
<i>Eucalyptus leucoxylon</i>	white iron bark	Good	Low	Fair	Lacks dense shade
<i>Eucalyptus microtheca</i>	coolibah	Excellent	Low	Excellent	High stress tolerance
<i>Eucalyptus polyanthemus</i>	silver dollar gum	Good	Low/Medium	Fair	Moderate litter
<i>Eucalyptus rudis</i>	desert gum	Excellent	Low	Fair	Moderate litter
<i>Eucalyptus sideroxylon</i>	red iron bark	Excellent	Low	Good	High wood density
<i>Eucalyptus spathulata</i>	swamp mallee	Excellent	Low	Good	Small
<i>Eucalyptus torquata</i>	coral gum	Excellent	Low	Good	High wood density, Small
<i>Ficus benjamina</i>	weeping fig	Fair	High	Poor	Heat sensitive
<i>Ficus elastica</i>	rubber tree	Poor	Medium/High	Poor	Heat sensitive
<i>Ficus microcarpa nitida</i>	Indian laurel fig	Good	Medium	Fair	Intense bird activity, sensitive to reflected heat
<i>Fraxinus oxycarpa</i>	Raywood ash	Poor	High	Poor	Prone to trunk sunscald
<i>Fraxinus uhdei</i>	Shamel ash	Good	High	Fair	Sensitive to reflected radiation
<i>Fraxinus velutina</i>	Arizona ash	Good	Medium/High	Poor	Prone to trunk sunscald
<i>Geijera parviflora</i>	Australian willow	Fair	Medium	Poor	Prone to trunk sunscald
<i>Gleditsia triacanthos</i>	honey locust	Good	Medium	Good	Excellent natural growth habit
<i>Grevillea robusta</i>	silk oak	Fair	Medium	Poor	Prone to trunk sunscald
<i>Jacaranda mimosifolia</i>	jacaranda	Fair	Medium/High	Poor	Prone to trunk sunscald
<i>Juglans major</i>	walnut	Fair	High	Poor	Prone to trunk sunscald
<i>Juniperus scopulorum</i>	Rocky Mtn. juniper	Good	Low/Medium	Fair	Lacks canopy spread

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<i>Lagerstroemia indica</i>	crape myrtle	Fair	Medium	Poor	Small, heat sensitive
<i>Leuceana glauca</i>	lead tree	Excellent	Medium	Fair	Invasive, weak wood
<i>Lysiloma watsonii</i>	feather bush	Excellent	Low/Medium	Fair/Good	Slow growing, seasonal litter
<i>Melia azedarach</i>	Chinaberry tree	Excellent	Medium	Poor/Fair	Extensive litter
<i>Morus alba</i>	mulberry	Excellent	Medium	Poor	Seasonal litter
<i>Olea europaea</i>	olive	Excellent	Low/Medium	Good	Dense wood, multiple trunk
<i>Olneya tesota</i>	desert ironwood	Excellent	Low	Good	Light shade, spines, multiple trunk
<i>Parkinsonia aculeata</i>	Jerusalem thorn	Excellent	Low	Fair	Brittle wood, limb failure, seasonal litter
<i>Parkinsonia florida</i>	blue palo verde	Excellent	Low	Good	Seasonal litter, extensive training, low wood density
<i>Parkinsonia microphylla</i>	foothills palo verde	Excellent	Low	Fair	Slow growth rate, seasonal litter
<i>Parkinsonia praecox</i>	palo brea	Excellent	Low	Poor	High maintenance requirement, spines, seasonal litter, low wood density
<i>Pistacia atlantica</i>	Mt. Atlas pistache	Good	Medium/High	Fair	Sensitive to reflected radiation
<i>Pistacia chinensis</i>	Chinese pistache	Fair	High	Poor	Heat sensitive, seasonal litter
<i>Pinus canariensis</i>	Canary Island pine	Fair	Medium/High	Poor/Fair	Low shade capacity
<i>Pinus eldarica</i>	Afghan pine	Good	Medium	Fair	Sensitive to high soil root zone temperatures
<i>Pinus halepensis</i>	Aleppo pine	Good	Medium	Fair	Sensitive to high soil root zone temperatures
<i>Pinus pinea</i>	Italian stone pine	Good	Medium	Fair	Sensitive to high soil root zone temperatures
<i>Pinus roxburghii</i>	Chir pine	Fair	Medium	Poor	Sensitive to high soil root zone temperatures
<i>Pittosporum phillyraeoides</i>	willow pittosporum	Excellent	Medium	Fair	Low shade capacity
<i>Platanus x acerifolia</i>	London plane tree	Fair	High	Poor	Heat sensitive
<i>Platanus wrightii</i>	Arizona sycamore	Good	Medium/High	Fair	Sensitive to impervious surfaces
<i>Populus fremontii</i>	Arizona cottonwood	Excellent	Medium/High	Poor	Basal suckers, seasonal litter, massive with age
<i>Prosopis alba</i>	Argentine mesquite	Excellent	Low	Excellent	Extensive training required, seasonal litter
<i>Prosopis chilensis</i>	Chilean mesquite	Excellent	Low	Good	Extensive training required, seasonal litter
<i>Prosopis glandulosa</i>	honey mesquite	Excellent	Low	Good	Extensive training required, seasonal litter
<i>Prosopis pubescens</i>	screw bean mesquite	Excellent	Low	Good	Extensive training required, seasonal litter
<i>Prosopis velutina</i>	velvet mesquite	Excellent	Low	Good	Extensive training required, seasonal litter
<i>Prunus caroliniana</i>	Carolina cherry laurel	Fair	High	Poor	Heat insensitive
<i>Pyrus calleryana</i>	Chinese pear	Poor	High	Poor	Heat insensitive
<i>Pyrus kawakamii</i>	evergreen pear	Poor	High	Poor	Heat insensitive
<i>Rhus lancea</i>	African sumac	Excellent	Low/Medium	Fair	Sensitive to reflected radiation
<i>Sambucus mexicana</i>	Mexican elderberry	Good	Medium	Poor	Small, shrubby
<i>Schinus molle</i>	California pepper tree	Fair	Medium	Poor	Brittle and weak wood
<i>Schinus terebinthefolius</i>	Brazilian pepper tree	Good	Medium	Poor	Heat sensitive
<i>Salix babylonica</i>	weeping willow	Poor	High	Poor	Excessive pendulous habit
<i>Tamarix aphylla</i>	Athel tamarisk	Excellent	Low/Medium	Poor	Massive with age
<i>Ulmus parvifolia</i>	Chinese elm	Fair	Medium	Good	Sensitive to high root zone temperatures
<i>Ulmus pumila</i>	Siberian elm	Fair	Medium	Poor	Extensive litter, limb failure
<i>Vitex agnus-castus</i>	lilac chaste tree	Good	Medium	Fair	Small, seasonal litter
<i>Ziziphus jujuba</i>	jujube	Good	Medium	Poor	Heat sensitive

#### Tree rating categories

Heat tolerance = Poor, Fair, Good, and Excellent

Water requirements = Low, Medium, and High

Parking lot suitability = Poor, Fair, Good, and Excellent