

KEY																																											
Rating: Based on a combination of factors related to climate resiliency such as environmental tolerances (heat, cold), water efficiency, drought tolerance, pathogen resistance, along with some additional factors like diversity, maintenance needs, and invasiveness. Plants rated from 1★ (least appropriate) to 5★ (most appropriate)		Tree Size (based on both height and width): Small (< 20 ft), Medium (20-29 ft), Large (30- 45ft), Extra Large (>45ft)		Tree Type: Deciduous, Evergreen, Semi-evergreen		Growth Rate: Slow, Moderate, Fast		Water Needs: Very Low, Low, Moderate, High		Excessive Litter: Leaves, Flowers, Seeds/Fruit		Biogenic Volatile Organic Compounds: Low, Medium, High, or data not available ----		Comments:		1. Organic mulch recommended		2. Many cultivars		3. Overplanted		4. Poor environmental tolerances		5. Invasive species		6. Mojave native		7. Poor drought tolerance		8. Susceptible to Pests		9. Short lifespan		10. Protected microclimate necessary									
Rating	Tree Size	Height (average)	Width (average)	Coverage	Tree Type	Growth Rate	Water Needs	Excessive Litter	Spines or Thorns	Biogenic Volatile Organic Compounds (BVOC's)	Parking Lot Tree	Street Tree	Buffer Tree	Minimum Soil Surface Area	Minimum Soil Volume	Tolerates Compacted Soil	Compatible with Turf Grass	Compatible with Overhead Utilities	Comments																								

Botanical Name	Cultivar	Common Name	Rating	Tree Size	Height (average)	Width (average)	Coverage	Tree Type	Growth Rate	Water Needs	Excessive Litter	Spines or Thorns	Biogenic Volatile Organic Compounds (BVOC's)	Parking Lot Tree	Street Tree	Buffer Tree	Minimum Soil Surface Area	Minimum Soil Volume	Tolerates Compacted Soil	Compatible with Turf Grass	Compatible with Overhead Utilities	Comments
			S, M, L, X	(feet)	(feet)	(sq. feet)	D, E, S	S, M, F	V, L, M, H	L, F, S	Yes or No	L, M, H	Yes or No	Yes or No	Yes or No	(sq. feet)	(cu. feet)	Yes or No	Yes or No	Yes or No		
<i>Acacia coriacea</i>		Desert Oak, Wiry Wattle	4★	M	20	20	236	E M	L	L	N	L	Y	Y	Y	120	500	Y	N	Y		
<i>Acacia estrophiolata</i>		Ironwood	4★	M	25	25	368	E M	V	---	N	---	Y	Y	Y	120	500	Y	N	N		
<i>Acacia pendula</i>		Weeping Acacia	5★	M	25	20	236	E M	V	S	N	M	Y	Y	Y	120	350	Y	N	N		
<i>Acacia salicina</i>		Willow Acacia	4★	L	30	20	236	E F	L	L	N	---	Y	Y	Y	200	350	Y	N	N		
<i>Acacia cupularis (=saligna)</i>		Blue Leaf Wattle	3★	M	25	20	236	E F	L	L	N	---	Y	Y	Y	120	350	Y	N	N	5	
<i>Acacia stenophylla</i>		Shoestring Acacia	3★	L	40	20	236	E M, F	L, S	N	L	Y	Y	Y	200	350	Y	N	N	3, 5		
<i>Arbutus x andrachnoides</i>	'Marina'	Marina Strawberry Tree	3★	M	25	25	368	E S	M	S	N	L	N	N	N	120	500	N	Y	Y	1, 4, 7, 10	
<i>Casuarina cunninghamiana</i>		River She Oak	4★	L	30	20	236	E F	M	L	N	---	N	N	Y	200	400	N	N	N		
<i>Casuarina equisetifolia</i>		Australian Pine	4★	L	30	20	236	E F	M	L	N	---	N	N	Y	200	400	N	N	N		
<i>Cedrus atlantica</i>	'Glauca'	Blue Atlas Cedar	3★	L	40	20	236	E M	M	---	N	L	N	N	Y	200	300	N	Y	N	1	
<i>Celtis australis</i>		Mediterranean Hackberry	4★	L	45	35	722	D M	M	L	N	---	N	Y	N	200	1300	N	Y	N	1	
<i>Celtis occidentalis</i>		Common Hackberry	4★	L	45	30	530	D F	M	L	N	---	N	Y	N	200	1000	N	N	N	1	
<i>Celtis laevigata var. reticulata</i>		Netleaf/Western Hackberry	5★	M	20	20	236	D S	L, M	S	N	L	N	Y	N	120	300	N	N	Y	6	
<i>Ceratonia siliqua</i>		Carob	4★	L	35	20	236	E M	L, M	S	N	M	N	Y	Y	200	400	N	Y	N	4	
<i>Cercis canadensis var. texensis</i>	'Oklahoma'	Texas/Oklahoma Redbud	4★	M	20	20	236	D S	M	---	N	L	N	N	N	120	300	N	Y	Y	1	
<i>Chilopsis linearis</i>		Desert Willow	4★	M	25	20	236	D M	M	L, F, S	N	M	N	Y	N	120	300	Y	N	N	2, 3, 6	
<i>Corymbia papuana (=Eucalyptus)</i>		Ghost Gum	3★	X	50	30	530	E M	L	S	N	H	N	Y	Y	240	1300	N	N	N	4	
<i>Dalbergia sissoo</i>		Indian Rosewood	4★	L	45	35	722	E M	L	---	N	---	Y	Y	Y	200	1300	Y	N	N	4	
<i>Ebenopsis ebano (=Pithecellobium)</i>		Texas Ebony	4★	M	25	20	236	S S, M	V	---	Y	---	N	Y	Y	120	300	Y	N	N	8	
<i>Eucalyptus camaldulensis</i>		Red River Gum	4★	X	55	40	942	E M	M	---	N	H	N	N	Y	240	1600	N	Y	N	5	
<i>Eucalyptus gunnii</i>		Cider Gum	3★	L	45	25	368	E M	M	L	N	H	Y	Y	Y	200	700	Y	N	N	5	
<i>Eucalyptus microtheca</i>		Coolibah	4★	L	40	25	368	E M	L, M	L	N	H	Y	Y	Y	200	700	Y	N	N	5	
<i>Eucalyptus nicholii</i>		Willow Leaf Peppermint Gum	3★	L	35	25	368	E F	M	---	N	H	N	N	Y	200	700	N	N	N	1, 5	
<i>Eucalyptus polyanthemus</i>		Silver Dollar Gum	3★	L	40	30	530	E F	L, M	L	N	H	N	N	Y	200	1000	N	N	N	1	
<i>Eucalyptus rudis</i>		Desert/Flooded Gum	4★	L	45	30	530	E M	M	---	N	H	N	Y	Y	240	1000	N	N	N		
<i>Eucalyptus sideroxylon</i>		Red Ironbark	4★	L	40	25	368	E M	M	---	N	H	N	N	Y	200	1000	N	Y	N		
<i>Eucalyptus spathulata</i>		Narrow-leaf Gimlet	4★	M	25	20	236	E M	L	---	N	---	N	N	Y	120	350	N	N	Y		
<i>Eysenhardtia orthocarpa</i>		Kidneywood	4★	M	20	20	236	S M	L	---	N	---	N	Y	Y	120	350	N	N	Y	1	
<i>Fraxinus anomala</i>		Single-leaf Ash	4★	M	20	20	236	D M	M	---	N	---	N	N	N	120	500	N	Y	Y	1, 6	
<i>Geoffroea decorticans</i>		Chilean Palo Verde	4★	M	25	25	368	D S	V	S	Y	---	Y	Y	Y	120	500	N	N	N	4	
<i>Ginkgo biloba</i>		Maidenhair Tree	3★	L	30	20	236	D S	M	---	N	M	N	N	N	200	600	N	Y	N	1, 4, 7	
<i>Gleditsia triacanthos var. inermis</i>		Thornless Honey Locust	4★	L	35	30	530	D M	M	S	N	M	N	Y	N	200	1000	N	Y	N	1, 2	
<i>Havardia mexicana</i>		Mexican Ebony	5★	L	30	25	368	D M	L	---	Y	---	Y	Y	N	200	600	N	N	N		
<i>Juniperus osteosperma</i>		Utah Juniper	4★	M	20	20	236	E S	L	---	N	---	N	N	Y	120	300	N	N	Y	1, 6	
<i>Koeleruteria paniculata</i>		Goldenrain Tree	3★	L	30	30	530	D M	M	---	N	H	N	Y	N	200	1000	N	Y	N	1, 7	
<i>Leucaena retusa</i>		Golden Leadball Tree	5★	M	20	20	236	D M	L, M	---	N	M	N	Y	Y	120	300	N	N	Y		
<i>Maclura pomifera</i>	'White Shield'	Osage Orange	3★	L	30	30	530	D M	M	---	Y	---	N	Y	N	200	1000	N	Y	N	1, 7	
<i>Morus alba (Female)</i>	'Unryu'	Fruiting/Contorted Mulberry	3★	M	25	20	236	D M	M	L, F, S	N	---	N	N	N	120	350	N	Y	N	1, 5, 7	
<i>Olea europaea</i>	'Swan Hill', 'Wilsonii'	Fruitless Olive	3★	M	25	20	236	E S, M	M	---	N	L	Y	Y	Y	120	350	N	Y	N	1, 4	
<i>Olneya tesota</i>		Desert Ironwood	4★	M	25	25	368	D S	V	---	Y	M	Y	Y	Y	120	500	Y	N	N	4	
<i>Parkinsonia florida</i>		Blue Palo Verde	4★	L	30	30	530	D M	V, L	S	Y	M	Y	Y	Y	200	1000	Y	N	N	5	
<i>Parkinsonia microphylla</i>		Foothill Palo Verde	5★	M	20	20	236	D S, M	V	---	Y	M	N	Y	Y	120	300	N	N	Y		
<i>Parkinsonia praecox</i>		Palo Brea	5★	L	25	30	530	D M	V	S	Y	---	N	N	Y	200	1000	Y	N	N		
<i>Parkinsonia x 'AZT Thornless'</i>	'AZT Thornless'	Thornless Hybrid Palo Verde	5★	M	25	25	368	S M	V, L	---	N	M	Y	Y	Y	120	500	Y	N	N		
<i>Parkinsonia x 'Desert Museum'</i>	'Desert Museum'	Desert Museum Palo Verde	3★	M	25	25	368	S M	V, L	---	N	M	Y	Y	Y	120	500	Y	N	N	3	
<i>Parkinsonia x 'Sonoran Emerald'</i>	'Sonoran Emerald'	Sonoran Emerald Palo Verde	4★	M	25	25	368	S M	V, L	---	N	M	Y	Y	Y	120	500	Y	N	N	8	
<i>Parkinsonia x sonora</i>		Sonoran Palo Verde	5★	M	20	20	236	D S	V	---	Y	M	N	Y	Y	120	300	N	N	Y		
<i>Pinus brutia</i>		Turkish/Calabrian Pine	3★	X	50	30	530	E F	M	L	N	---	N	N	Y	240	1000	N	Y	N	1	
<i>Pinus pinea</i>		Stone Pine	3★	X	60	40	942	E S, M	M	L	N	M	N	Y	Y	240	1600	N	Y	N	1, 8	
<i>Pinus roxburghii</i>		Chir Pine	3★	L	40	25	368	E M	M	L	N	M	N	Y	Y	200	700	N	Y	N	1	
<i>Pinus sabiniana</i>		Foothill/Gray Pine	4★	X	55	30	530	E M	M	L, S	N	L	N	Y	Y	240	1300	N	Y	N	1	
<i>Pistacia atlantica</i>		Mt. Atlas Mastic Tree	3★	L	30	30	530	S M	M	S	N	---	N	N	N	200	1000	N	N	N	1	
<i>Pistacia chinensis</i>		Chinese Pistache	4★	L	35	30	530	D M	M	L, S	N	M	Y	Y	N	200	1000	Y	Y	N	1, 2, 3	
<i>Pistacia lentiscus</i>		Mastic Tree	4★	M	15	20	236	E S	L	L	N	---	N	Y	Y	120	350	N	N	Y	4	
<i>Pistacia x 'Red Push'</i>	'Red Push'	Red Push Pistache	4★	L	30	30	530	D M	M	L, S	N	M	Y	Y	N	200	1000	Y	Y	N	1, 3	
<i>Platanus mexicana</i>		Mexican Sycamore	3★	X	50	35	722	D F	M	L	N	H	N	Y	N	200	1300	N	Y	N	1, 7	
<i>Platanus wrightii</i>		Arizona Sycamore	3★	X	60	40	942	D F	M, H	L	N	---	N	N	N	240	1600	N	Y	N	1, 4, 7, 8	
<i>Populus alba</i>		White Poplar	3★	X	50	40	942	D F	M	L	N	---	N	N	N	240	1600	N	Y	N	1, 2, 7, 8	
<i>Prosopis alba</i>		Argentine Mesquite	3★	L	30	30	530	S F	L, M	S	Y	---	N	Y	Y	200	1000	Y	N	N	2, 3, 5	
<i>Prosopis x alba</i>	'Phoenix', 'AZT'	Thornless Hybrid Mesquite	4★	L	30	30	530	S F	L	S	N	---	Y	Y	Y	200	1000	Y	N	N	2, 3	
<i>Prosopis chilensis</i>		Chilean Mesquite	3★	L	30	30	530	S F	L, M	S	Y	---	N	Y	Y	200	1000	Y	N	N	3, 5	

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Botanical Name	Cultivar	Common Name	S, M, L, X	(feet)	(feet)	(sq. feet)	D, E, S	S, M, F	V, L, M, H	L, F, S	Yes or No	L, M, H	Yes or No	Yes or No	Yes or No	(sq. feet)	(cu. feet)	Yes or No	Yes or No	Yes or No		
<i>Prosopis x chilensis</i>	'AZT', 'Arizona'	Thornless Chilean Mesquite	4★	L	30	30	530	S	F	L, M	S	N	----	Y	Y	Y	200	1000	Y	N	N	2,3
<i>Prosopis x 'Seedless AZT'</i>	'AZT'	Seedless Hybrid Mesquite	4★	L	30	30	530	S	F	L	----	Y	----	N	Y	Y	200	1000	Y	N	N	
<i>Prosopis glandulosa</i>		Texas Honey Mesquite	4★	L	30	35	722	D	F	L	S	Y	M	N	Y	N	200	1300	Y	N	N	8
<i>Prosopis glandulosa</i>	'Maverick', 'AZT'	Thornless Honey Mesquite	4★	L	30	30	530	D	F	L	S	N	M	Y	Y	N	200	1000	Y	N	N	8
<i>Prosopis glandulosa var. torreyana</i>		Western Honey Mesquite	5★	M	20	20	236	D	M	V	L	Y	M	N	Y	N	120	350	Y	N	Y	6,8
<i>Prosopis pubescens</i>		Screwbean Mesquite	5★	M	20	25	368	D	M	V	S	Y	M	N	Y	N	120	500	N	N	Y	6
<i>Prosopis velutina</i>		Velvet Mesquite	5★	L	30	30	530	S	F	V	S	Y	L	N	Y	Y	200	1000	Y	N	N	6
<i>Quercus buckleyi</i>		Buckley/Texas Red Oak	3★	L	30	30	530	D	S, M	L, M	L	N	H	N	Y	Y	200	1000	N	Y	N	1,7
<i>Quercus canbyi</i>		Canby/Sierra Red Oak	4★	L	35	30	530	D	M	M	----	N	----	N	Y	N	200	1000	N	Y	N	1
<i>Quercus douglasii</i>		Blue Oak	4★	L	30	25	368	D	S	M	----	N	M	N	Y	N	200	600	N	Y	N	1
<i>Quercus fusiformis</i>		Escarpment Oak	4★	L	30	30	530	E	M, F	L, M	S	N	H	N	Y	Y	200	1000	N	Y	N	1
<i>Quercus gambelii</i>		Gambel Oak	4★	M	25	20	236	D	M	M	S	N	M	N	N	N	120	400	N	Y	N	1,6
<i>Quercus ilex</i>		Holly Oak	3★	L	30	20	236	E	M	M	S	N	H	N	Y	Y	200	400	N	Y	N	1
<i>Quercus lobata</i>		Valley Oak	3★	L	45	40	942	D	M	M	L, S	N	M	N	N	N	200	1600	N	Y	N	1,7
<i>Quercus macrocarpa</i>		Bur Oak	4★	X	55	40	942	D	S	M	L, S	N	----	N	Y	N	240	1600	N	Y	N	1
<i>Quercus muehlenbergii</i>		Chinquapin/Chinkapin Oak	4★	L	30	30	530	D	S, M	M	L, S	N	----	N	Y	Y	200	1000	N	Y	N	1
<i>Quercus polymorpha</i>		Monterrey Oak	4★	L	45	30	530	E	M	L, M	----	N	----	N	Y	Y	200	1000	N	Y	N	1
<i>Quercus shumardii</i>		Shumard Oak	3★	L	45	30	530	D	M	M	L, S	N	----	N	Y	N	200	1000	N	Y	N	1,7
<i>Quercus suber</i>		Cork Oak	4★	L	40	30	530	S	S, M	M	S	N	H	N	Y	Y	200	1000	N	Y	N	1
<i>Quercus texana</i>		Nuttall Oak	3★	L	45	40	942	D	M	M	L, S	N	----	N	N	N	200	1600	N	Y	N	1,4,7
<i>Quercus virginiana</i>		Southern Live Oak	4★	L	40	25	368	S	S, M	M	S	N	H	N	Y	Y	200	1000	N	Y	N	1,2,3,8
<i>Quercus virginiana</i>	'Cathedral'	Cathedral Live Oak	4★	L	30	25	368	S	S, M	M	S	N	H	N	Y	Y	200	700	N	Y	N	1,8
<i>Quercus virginiana</i>	'Heritage'	Heritage Live Oak	4★	L	30	25	368	E	S, M	M	S	N	H	N	Y	Y	200	700	N	Y	N	1,8
<i>Quercus virginiana</i>	'High Rise'	High Rise Live Oak	4★	L	35	20	236	S	S, M	M	S	N	H	N	Y	Y	200	400	N	Y	N	1,8
<i>Rhus lanceolata</i>		Prairie Flameleaf Sumac	4★	S	15	20	236	D	M	L, M	----	N	L	N	N	N	80	300	N	Y	N	1
<i>Salix gooddingii</i>		Goodding Willow	3★	L	30	25	368	D	F	H	L, F, S	N	----	N	N	N	200	600	N	Y	N	1,6
<i>Sambucus cerulea (=nigra ssp. cerulea)</i>		Blue Elderberry	5★	M	15	25	368	S	M	M	L, F	N	L	N	N	Y	120	500	N	Y	N	
<i>Sapindus saponaria var. drummondii</i>		Western Soapberry	3★	M	25	25	368	D	M	M	----	N	----	N	Y	N	120	500	N	Y	N	1
<i>Searsia lancea (=Rhus)</i>		African Sumac	3★	M	20	20	236	E	M, F	L, M	L, S	N	L	N	N	Y	120	300	N	Y	N	3,4,5
<i>Senegalia greggii (=Acacia)</i>		Catclaw Acacia, Gregg's Catclaw	5★	S	15	20	236	D	S, M	V	----	Y	L	N	N	N	80	300	Y	N	Y	6
<i>Styphnolobium japonicum</i>		Japanese Pagoda Tree	3★	L	30	30	530	D	M	M	L	N	M	N	Y	N	200	1000	N	N	N	4,7
<i>Ulmus americana</i>		American Elm	3★	X	50	40	942	D	M	M	L	N	L	N	N	N	240	1800	N	Y	N	1,2,7
<i>Ulmus crassifolia</i>		Cedar Elm	4★	L	40	35	722	D	M	M	----	N	----	N	Y	N	200	1300	N	Y	N	1
<i>Vachellia farnesiana (=Acacia)</i>		Sweet Acacia	4★	M	25	20	236	S	M	L	S	Y	M	N	Y	N	120	400	Y	N	N	
<i>Vachellia gerrardii (=Acacia)</i>		Red Thorn	4★	S	15	20	236	S	S	V	----	Y	----	N	N	Y	80	300	N	N	Y	
<i>Vachellia schaffneri (=Acacia)</i>		Twisted Acacia	5★	M	20	25	368	D	M	L	S	Y	M	N	Y	N	120	500	N	N	Y	
<i>Ziziphus jujuba</i>		Jujube	4★	M	25	20	236	D	S	M	S	Y	H	N	N	N	80	300	N	Y	N	1,2