

KEY													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)		Yes or No Parking Lot Tree		Yes or No Street Tree		Yes or No Buffer Tree		Minimum Soil Surface Area		Minimum Soil Volume		Yes or No Tolerates Compacted Soil		Yes or No Compatible with Turf Grass		Yes or No Compatible with Overhead Utilities		Comments											
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 0★ (least appropriate) to 4★ (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:																																									
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)		Yes or No Parking Lot Tree		Yes or No Street Tree		Yes or No Buffer Tree		Minimum Soil Surface Area		Minimum Soil Volume		Yes or No Tolerates Compacted Soil		Yes or No Compatible with Turf Grass		Yes or No Compatible with Overhead Utilities		Comments																					
<i>Ziziphus jujuba</i>			Jujube		3★	M	25	20	236	D	S	M	S	Y	H	N	N	N	80	300	N	Y	N	1,2																																						
TREES - Under Review																																																														
<i>Celtis africana</i>			African Hackberry		?	L	35	30	530	D	?	?	?	N	---	?	?	N	200	1000	?	?	N	1																																						
<i>Fraxinus cuspidata</i>			Fragrant Ash		?	M	20	15	133	D	?	?	?	N	---	?	?	N	120	200	N	?	Y	1,6,7																																						
<i>Juglans major</i>			Arizona Walnut		?	L	30	30	530	D	?	?	?	N	---	?	?	N	200	1000	N	?	Y	1,7																																						
<i>Juniperus deppeana</i>		McFetter'	Alligator Juniper		?	L	40	20	236	E	?	?	?	N	L	?	?	Y	200	300	N	?	Y	1																																						
<i>Martoussa willardiana</i>			Palo Blanco		?	M	20	15	133	S	?	?	?	N	---	?	?	N	120	200	?	?	Y	4																																						
<i>Pinus cembroides</i>			Mexican Pinyon		?	M	25	15	133	E	?	?	?	N	M	?	?	Y	120	200	N	?	Y	1																																						
<i>Pinus engelmannii</i>			Apache Pine		?	X	60	35	722	E	?	?	?	N	---	?	?	Y	240	1300	N	?	Y	1																																						
<i>Pinus edulis</i>			Two Needle Pinyon		?	M	20	15	133	E	?	?	?	N	M	?	?	Y	120	300	N	?	N	1																																						
<i>Pinus monophylla</i>			Single Needle Pinyon		?	M	20	20	236	E	?	?	?	N	H	?	?	Y	120	300	N	?	Y	1,6																																						
<i>Pinus quadrifolia</i>			Parry Pinyon		?	M	25	20	236	E	?	?	?	N	---	?	?	N	120	300	N	?	N	1																																						
<i>Psoralethamnus spinosus</i>			Desert Smoke Tree		?	S	15	15	133	D	?	?	?	Y	M	?	?	Y	80	200	?	?	Y	6																																						
<i>Quercus arizonica</i>			Arizona White Oak		?	X	45	40	942	S	?	?	?	N	---	?	?	Y	240	1300	N	?	N	1																																						
<i>Quercus chrysolepis</i>			Canyon Live Oak		?	L	30	25	368	E	?	?	?	N	H	?	?	Y	200	500	N	?	Y	1,6																																						
<i>Quercus emoryi</i>			Emory Oak		?	L	30	25	368	S	?	?	?	N	---	?	?	Y	200	500	N	?	Y	1																																						
<i>Quercus gambelii x macrocarpa</i>			Bur-gambel Oak		?	L	30	30	530	D	?	?	?	N	---	?	?	N	200	1000	N	?	N	1																																						
<i>Quercus gravesii</i>			Chisos Red/Grave's Oak		?	L	35	30	530	D	?	?	?	N	---	?	?	N	200	1000	N	?	N	1																																						
<i>Quercus grisea</i>			Gray Oak		?	L	30	25	368	S	?	?	?	N	---	?	?	Y	200	500	N	?	N	1																																						
<i>Quercus hypoleucoides</i>			Silverleaf Oak		?	L	35	30	530	E	?	?	?	N	---	?	?	Y	200	1000	N	?	N	1																																						
<i>Quercus oblongifolia</i>			Mexican Blue Oak		?	M	25	25	368	E	?	?	?	N	---	?	?	Y	120	500	N	?	N	1																																						
<i>Quercus sartorii</i>			Mexican Red/Sator's Oak		?	M	25	25	368	D	?	?	?	N	---	?	?	N	120	500	N	?	N	1																																						
<i>Styphnolobium affine (=Sophora affinis)</i>			Eve's Necklace		?	M	25	15	133	S	?	?	?	N	---	?	?	N	120	350	N	?	N	1																																						
PALMS AND CYCADS																																																														
<i>Bismarckia nobilis</i>			Bismarck Palm		0★	M	30	20	236	Not Recommended																	1,7																																			
<i>Brahea armata</i>			Mexican Blue Palm		3★	M	25	15	133	E	S	M	---	Y	M	N	Y	N	120	200	N	N	Y	1,7																																						
<i>Brahea decumbens</i>			Mexican Dwarf Blue Palm		3★	M	15	25	368	E	S,M	M	---	Y	---	N	N	N	120	500	?	Y	Y																																							
<i>Butia capitata</i>			Pindo Palm		1★	M	20	15	133	Not Recommended																	1,4,7																																			
<i>Chamaerops humilis</i>			Mediterranean Fan Palm		2★	S	15	15	133	E	S	M	S	Y	M	N	N	N	80	200	Y	Y	Y	7																																						
<i>Cycas revoluta</i>			Japanese Sago Palm		1★	-	5	6	28	Not Recommended																	1,7,10																																			
<i>Livistona chinensis</i>			Chinese Fan Palm		2★	S	15	10	59	E	S	M	---	Y	---	N	N	N	80	100	N	N	Y																																							
<i>Livistona decipiens</i>			Ribbon Fan Palm		2★	L	30	10	59	E	M	L,M	---	Y	---	N	N	N	200	100	N	N	Y																																							
<i>Livistona nitida</i>			Carnarvon Fan Palm		2★	L	40	15	133	E	M,F	M	---	Y	---	Y	Y	N	200	200	N	Y	N																																							
<i>Livistona saribus</i>			Taraw Fan Palm		2★	L	30	15	133	E	S	M	S	Y	---	N	N	N	200	200	N	N	Y																																							
<i>Nannorrhops ritchieana</i>			Mazari Palm		4★	S	10	12	85	E	M	L	---	N	---	Y	Y	N	80	150	N	N	Y																																							
<i>Phoenix canariensis</i>			Canary Island Date Palm		2★	L	40	30	530	E	S	M	S	Y	M	N	Y	N	200	1000	Y	Y	N	1,5,7,8																																						
<i>Phoenix dactylifera</i>			Date Palm		2★	X	60	20	236	E	S	M	S	Y	M	N	Y	N	240	300	Y	Y	N	1,5,7																																						
<i>Phoenix reclinata</i>			Senegal Date Palm		1★	M	20	15	133	Not Recommended																	5,7																																			
<i>Phoenix roebelenii</i>			Pygmy Date Palm		0★	-	6	7	38	Not Recommended																	1,4,7,10																																			
<i>Phoenix rupicola</i>			Cliff Date		2★	M	20	15	133	E	S	M	F,S	Y	---	N	N	N	120	200	N	Y	Y																																							
<i>Phoenix sylvestris</i>			Wild Date		2★	M	25	10	59	E	S	M	F,S	Y	---	N	N	N	120	100	N	Y	Y																																							
<i>Phoenix theophrasti</i>			Greek/Cretan Date Palm		2★	L	40	15	133	E	M	M	F	Y	---	Y	Y	N	200	200	N	Y	N																																							
<i>Sabal causiarum</i>			Puerto Rican Hat Palm		2★	L	35	15	133	E	M	M	F,S	N	---	Y	Y	N	200	200	N	Y	N																																							
<i>Sabal domingensis</i>			Hispaniolan Palmetto		2★	M	20	15	133	E	M	M	F,S	N	---	Y	Y	N	120	200	N	Y	N																																							
<i>Sabal mexicana</i>			Mexican Sabal Palm		3★	L	30	15	133	E	M	M	F	Y	---	Y	Y	N	200	200	N	Y	N																																							
<i>Sabal palmetto</i>			Palmetto		2★	L	45	15	133	E	M	M	F,S	N	---	Y	Y	N	200	200	N	Y	N																																							
<i>Sabal x 'Riverside'</i>		Riverside'	Riverside Sabal Palm		3★	L	35	20	236	E	M	M,H	F,S	Y	---	Y	Y	N	200	300	N	Y	N																																							
<i>Syagrus romanzoffiana</i>			Queen Palm		0★	M	25	15	133	Not Recommended																	4,7																																			
<i>Trachycarpus fortunei</i>			Windmill Palm		2★	M	20	10	59	E	S	M	F,S	N	---	N	N	N	120	100	N	Y	Y	1,7																																						
<i>Washingtonia filifera</i>			California Fan Palm		2★	X	50	15	133	E	S,M	L,M	F,S	Y	M	N	Y	N	240	200	Y	Y	N	1,7																																						
<i>Washingtonia robusta</i>			Mexican Fan Palm		2★	X	60	15	133	E	M,F	M	F,S	Y	M	N	Y	N	240	200	Y	Y	N	1,5,7																																						