

Planning and Environmental Review Master Tree List (version 1-8-14)

Botanical Name	Common Name	Canopy Diameter After 15 Years	15-year Old Tree Shade Cover Value (square feet)	Shade Credit Over Parking Space % of space shaded, square feet: A = 100% = 314 75%-225 50% = 157 25% = 79 B = 100% = 707 75% = 530 50% = 354 25% = 177 C = 100% = 491 75% = 368 50% = 246 25% = 123 D = 100% = 982 75% = 731 50% = 491 25% = 246	Recommend Minimum Planter Square Footage* (assumes soil is 3 ft deep and Minimum Planter Widths listed in table)	Minimum Planter Width (feet)	Max. Height @ Maturity (feet)	Canopy Shape	Tree's Preferred Soils	Tree's Water Consumption Needs low = very little water required	Growth Rate fast = rapid growth	Root Growth Depth	Flowers & Fruit	Fall Color	Deciduous or Evergreen	VOC Emitting* (isoprene emission) high = bad	CO2 Reducing high = captures the most CO2	Invasiveness severe = bad	Allergen Causing high = bad	Potential to Damage Pavement high = bad	Remarks
Acer buergerianum	Indiant maple	15-20	314	A	150	4	25	oval	moist drained	high	moderate	shallow	small winged	red	deciduous	low	low	not	high (2 only)		
Acer palmatum	Japanese maple	15-20	314	A	150	4	25	spreading	moist drained	high	slow	shallow	small winged	red	deciduous	low	low	not	high (2 only)	afternoon shade, will fungus, multiple trunk	
Acer rubrum	Redleaf maple	15-20	314	A	150	4	40	round	moist	moderate	fast	medium	red fruit	red-orange	deciduous	low	low	not	high (2 only)		
Alnus incana	tree of heaven	15-20	314	A	150	4	35	round	moist soil	low	fast	medium	winged seeds	yellow	deciduous	low	low	moderate	moderate	invasive species, brittle wood	
Cercis canadensis	Eastern redbud	15-20	314	A	150	4	35	broad top	moist soil	moderate	moderate	medium	red & red	yellow to red	deciduous	low	low	not	low	foliage can burn in summer winds	
Cercis occidentalis	Western redbud	15-20	314	A	150	4	20	rounded	moist soil	low	moderate	medium	red & red	yellow to red	deciduous	low	low	not	not	usually a small tree, multiple trunk	
Ficus carica	Fig	15-20	314	A	150	4	25	rounded-spreading	moist soil	low	fast	deep	fruit	yellow	deciduous	low	low	not	not		
Juglans californica	Southern California black walnut	15-20	314	A	150	4	30	rounded-broad	moist soil	moderate	moderate	medium	nut	yellow	deciduous	moderate	moderate	not	high		
Lagerstroemia indica	craple myrtle	15-20	314	A	150	4	25	outward arching	moist soil	moderate	slow	shallow	flower colors vary	red to gold	deciduous	low	low	not	not	Need full sun all day, mildew, aphids. Many cultivars	
Ligustrum japonicum	Japanese privet	15-20	314	A	150	4	20	rounded	moist soil	moderate	fast	deep	fruit	green	ev. evergreen	low	low	severe	not	high	
Maytenus boaria	Mayten tree	15-20	314	A	150	4	30	round-weeping	moist soil	moderate	slow	medium	fruit	green	ev. evergreen	low	low	not	not	weeping habit, must have well drained soil	
Olea sp.	olive	15-20	314	A	150	4	35	variable	moist soil	low	slow	medium	fruit	green	ev. evergreen	low	low	not	high		
Prunus borealis	Flowering plum	15-20	314	A	150	4	25	rounded	moist soil	moderate	moderate	medium	pink to rose	bronze or purple	deciduous	low	low	not	not	purple leaves, aphids	
Prunus c. 'Krauter Vesuvius'	Flowering plum	15-20	314	A	150	4	20	rounded	moist soil	moderate	moderate	medium	pink	bronze or purple	deciduous	low	low	not	not	dark purple leaves, aphids, no fruit	
Prunus c. 'Thundercloud'	Flowering plum	15-20	314	A	150	4	20	rounded	moist soil	moderate	moderate	medium	pink to white	bronze or purple	deciduous	low	low	not	not	dark purple coppery leaves, aphids	
Prunus kawakami	ev. evergreen pear	15-20	314	A	150	4	30	irregular shape	moist soil	moderate	moderate	medium to deep	small red	green	ev. evergreen	low	low	not	not	Semi-susceptible to fire blight	
Rhus lancea	African sumac	15-20	314	A	150	4	25	spreading	moist drained	moderate	slow	medium	berries	green	ev. evergreen	low	low	not	high	messy berries	
Rhus typhina sp. & Flourens sp.	oak	15-20	314	A	150	4	45	upright head	moist to dry	low	fast	medium	fruit	pink flower, red fruit	deciduous	low	low	not	moderate		
Arbutus Marina	Marina strawberry tree	20-25	491	B	550	6	30	rounded	well drained	moderate	slow	medium	fruit	green	ev. evergreen	low	low	not	not	fruit attracts birds	
Carpinus betulus	European hornbeam	20-25	491	B	550	6	40	columnar-oval	moist soil	moderate	slow	medium	winged seeds	yellow	deciduous	low	low	not	moderate	av. availability problem	
Geijera parvifolia	Australian willow	20-25	491	B	550	6	30	oval	well drained	moderate	moderate	shallow	yellow fragrant	green	ev. evergreen	low	low	not	not	low-branching	
Laurus nobilis	sweet bay	20-25	491	B	550	6	40	rounded	moist sandy	high	slow	deep	yellow flowers	green	ev. evergreen	low	low	not	not		
Magnolia grandiflora	Southern magnolia	20-25	491	B	550	8	40	oval	deep moist	high	slow	deep	white flower	green	ev. evergreen	low	moderate	not	moderate	high	
Modestoa ash	Fraxinus velutina	20-25	491	B	550	8	50	oval	moderate	low	moderate	medium	winged seeds	yellow	deciduous	low	moderate	not	high (2 only)		
Olea europaea	Majestic Beauty Swan Hill	20-25	491	B	550	8	30	variable	well drained	low	slow	shallow	black fruit	green	ev. evergreen	low	low	not	high	Grey-green foliage: use cultivars that generate little or no fruit, standard trunk and multi-trunk forms av. available	
Prunus cerasifera	purple leaf plum	20-25	491	B	550	6	30	rounded	moist soil	moderate	fast	medium	white	bronze or purple	deciduous	low	low	not	low	purple leaves, top heavy (thin out), messy fruit	
Prunus serotina "Kwanzan"	Flowering cherry	20-25	491	B	550	6	30	rounded	well drained	moderate	moderate	medium	double pink	bronze or gold	deciduous	low	low	not	not	purple leaves	
Prunus lauro-cerasifera	Japanese cherry laurel	20-25	491	B	550	6	30	weeping	deep moist	high	moderate	deep	small white	gold	deciduous	low	low	not	not	purple leaves	
Aesculus californica	California Buckeye	20-25	491	B	550	6	10-25	rounded	clay, loam or sand	low	moderate	deep	white	gray/green	deciduous	high	not	high	not	Poisonous	
Salix gooddingii	Gooding's Willow	20-25	491	B	550	6	25	rounded	moist	high	fast	medium	brown capsule	bronze/gold	deciduous	high	not	high	not		
Salix lasiolepis	Red Willow	20-25	491	B	550	6	35	rounded	moist	high	rapid	shallow	brown capsule	gold	deciduous	high	not	high	not		
Salix lasiolepis	Arroyo Willow	20-26	491	B	550	6	35	rounded	moist	high	rapid	shallow	brown capsule	gold	deciduous	high	not	high	not		
Acer saccharinum	silver maple	25-30	707	C	800	6	50 to 80	broad rounded	moist soil	high	fast	medium	winged seeds	yellow	deciduous	low	moderate	moderate	high (2 only)	high	
Alnus cordata	Italian alder	25-30	707	C	800	6	40	round	well, boggy	high	rapid	shallow	cones	green or bronze	deciduous	low	low	not	high	Roots more restrained than Alnus rhombifolia	
Alnus glutinosa	black alder	25-30	707	C	800	6	50	oval to pyramidal	well, boggy	high	moderate	shallow	cones	green or bronze	deciduous	low	moderate	not	high		
Casuarina stricta	she-oak	25-30	707	C	800	8	70	broad rounded	moist soil	low	moderate	deep	cones	green	ev. evergreen	low	moderate	not	moderate		
Ceratonia siliqua	Carob tree	25-30	707	C	800	6	40	umbrella	moist soil	moderate	moderate	surface to shallow	messy pods	green	ev. evergreen	low	low	not	moderate	use male tree only	
Eucalyptus nichollii	willow-leaved peppermint	25-30	707	C	800	6	40 feet	weeping	moist soil	low	fast	shallow	white flower capsules	green	ev. evergreen	high	low	not	moderate		
Fraxinus latifolia	Oregon Ash	25-30	707	C	800	6	65	oval	clay, loam or sand	moderate	fast	deep	yellow winged	gold	deciduous	low	low	not	high		
Juglans californica	California Black Walnut	25-30	707	C	800	6	30	rounded	loam or sand	low	moderate	medium	nut	gold	deciduous	high	not	high	not		
Juglans hindsii	Northern California black walnut	25-30	707	C	800	8	30 to 60	variable	moist soil	moderate	moderate	medium	nut	yellow	deciduous	moderate	high	not	high		
Koeleria paniculata	golden rain tree	25-30	707	C	800	6	35	round head	moist soil	moderate	slow/moderate	deep	yellow flowers	yellow	deciduous	high	low	not	not	messy litter	
Liquidambar styraciflua	American sweet gum	25-30	707	C	800	8	40	pyramidal	deep moist	high	moderate	shallow surface	1-1/2 inch round buds	crimson yellow	deciduous	high	not	high	high	litters buds, cork twigs, invasive roots, can break pavement, site clearance problem, avoid	
Nyssa sylvatica	topole or sour gum	25-30	707	C	800	6	40	cone	moist soil/wet	high	moderate	deep	white flowers	scarlet orange	deciduous	low	moderate	not	moderate	conifer, blue green needles, site clearance problem	
Pinus canariensis	Canary Island pine	25-30	707	C	800	6	60	slender cone	poor sandy	low	rapid	deep	8-inch cones	green	ev. evergreen	low	moderate	not	high		
Pinus densata	Japanese red pine	25-30	707	C	800	6	80	broad to irregular	poor sandy	moderate	rapid	deep	2-inch cones	green	ev. evergreen	low	high	not	high	conifer, messy, site clearance problem	
Pinus edulis	Monterey pine	25-30	707	C	800	6	80	conical	moist soil, dry typically	moderate	fast	deep	4-inch cones	green	ev. evergreen	low	high	not	high	conifer, good for erosion control, site clearance problem	
Pinus halepensis	Aleppo pine	25-30	707	C	800	8	60	rounded top	moist soil, dry typically	low	rapid	deep	4-inch cones	green	ev. evergreen	low	moderate	not	high	conifer, wind break, erosion control, site clearance problem	
Pinus ponderosa	Ponderosa pine	25-30	707	C	800	8	50	conical	moist soil	low	moderate	deep	3 to 5 inch cones	green	ev. evergreen	low	moderate	not	high	conifer, drought tolerant, site clearance problem	
Pinus sylvestris	Scotch pine	25-30	707	C	800	6	50	narrow pyramid	poor sandy	low	moderate	deep	2-inch cones	green	ev. evergreen	low	moderate	not	high	conifer, site clearance problem	
Populus tremuloides	Aspen	25-30	707	C	800	4	65	columnar-oval	moist soil	high	fast	shallow	white clusters	scarlet red	deciduous	high	low	not	high		
Pyrus calleryana 'Aristocrat'	aristocrat pear	25-30	707	C	800	6	50	pyramidal	moist soil	moderate	fast	deep	white clusters	scarlet red	deciduous	low	moderate	not	high	resists fire-blight	
Quercus palustris	pin oak	25-30	707	C	800	6	50	oval	moist, poorly drained	high	rapid	shallow	acorn	scarlet	deciduous	high	moderate	not	high	high	
Salix sp.	wilows	25-30	707	C	800	6	25 to 70	variable	moist	high	fast	shallow	small capsule	yellow	deciduous	high	low	not	high	no alkali soil, brown leaves hang on during winter, low branching	
Sagittaria arifolia	Costal redwood	25-30	707	C	800	8	90	conical	deep moist	high	rapid	shallow	1-1/2 inch cones	green	ev. evergreen	low	high	not	not	conifer, site clearance problem	
Sila corniculata	Ulex leaf lupine	25-30	707	C	800	6	50	broad headed	dry/wet	high	rapid	deep	nutlets	gold	deciduous	low	moderate	not	moderate	very susceptible to aphid, site clearance problem	
Acacia melanocoryn	Blackwood acacia	30-35	962	D	1200	6	70	broad rounded	moist	low	rapid	shallow spreading	white/pod	green	ev. evergreen	low	high	moderate	low	short lived, trees, sp. fast tender	
Acer platanoides	Norway maple	30-35	962	D	1200	8	50-60	light oval	moist, drained	high	rapid	medium	winged pod	yellow	deciduous	low	moderate	not	high (2 only)	high	
Acer rubrum var.	red maple	30-35	962	D	1200	6	40	oval-round	moist soil	high	fast	medium	red fruit	red	deciduous	low	low	not	high (2 only)	high	
Alnus rhombifolia	white alder	30-35	962	D	1200	6	40-80	broad rounded	well or boggy	high	rapid	shallow, invasive	cones	yellow	deciduous	low	low	not	high	does poorly in interior valley, smog intolerant, short lived	
Alnus rhombifolia	California White Alder	30-35	962	D	1200	8	50-90	conical	clay, loam or sand	moderate	rapid	shallow	med cone	green or bronze	deciduous	low	low	not	high		
Betula	birch	30-35	962	D	1200	8	50 to 70	pyramidal	moist soil	high	fast	medium to shallow	winged nut	yellow	deciduous	low	low	not	high		
Cabocedrus decurrens	incense cedar	30-35	962	D	1200	8	50-90	cone	moist soil	low	slow	deep lateral	small cones	green	ev. evergreen	low	moderate	not	high (2 only)	foliage is aromatic	
Canva linoensis	pecan	30-35	962	D	1200	8	70 to 100	broad rounded	moist soil	high	fast	medium	nut	yellow	deciduous	low	moderate	not	high		
Cedrus deodora	Deodar cedar	30-35	962	D	1200	8	80	cone to broad top	moist soil	low	fast	deep	cones	green	ev						