

Tree Canopy Table (Based on 15-Year Shade Cover Value)

Common Name	Botanical Name	Canopy Diameter After 15 Years	15-year Old Tree Shade Cover Value (square feet)	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
African sumac	Rhus lancea	15-20	314	150	4	25	spreading	most drained	moderate	slow
Bowhall maple	Acer rubrum	15-20	314	150	4	40	oval-round	most soils	moderate	fast
crape myrtle	Lagerstroemia indica	15-20	314	150	4	25	outward arching	most soils	moderate	slow
Eastern redbud	Cercis canadensis	15-20	314	150	4	35	broad top	most soils	moderate	moderate
evergreen pear	Pyrus kawakami	15-20	314	150	4	30	irregular shape	most soils	moderate	moderate
flowering plum	Prunus blireiana	15-20	314	150	4	25	rounded	most soils	moderate	moderate
flowering plum	Prunus c. 'Krauter Vesuvius'	15-20	314	150	4	20	rounded	most soils	moderate	moderate
flowering plum	'Thundercloud'	15-20	314	150	4	20	rounded	most soils	moderate	moderate
Kwazan Cherry	Prunus serrulata 'Kwazan'	15-20	314	150	4	20	rounded	most soils	moderate	moderate
Italian cypress	Cupressus sempervirens	5-10	314	150	7	60	rounded	most soils, dry typically	low	moderate
Japanese maple	Acer palmatum	15-20	314	150	4	25	spreading	moist drained	high	slow
Mayten tree	Maytenus boaria	15-20	314	150	4	30	round-weeping	moist drained	high	slow to moderate
olive	Olea sp.	15-20	314	150	4	35	variable	most soils	low	slow
palm	Washingtonia sp. & Phoenix sp.	15-20	314	150	4	65	spray-head	moist to dry	low	fast
Souther California black walnut	Juglans californica	15-20	314	150	4	30	rounded-broad	most soils	moderate	moderate
trident maple	Acer buergeranum	15-20	314	150	4	25	oval	moist drained	high	moderate

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Western redbud	<i>Cercis occidentalis</i>	15-20	314	150	4	20	rounded	most soils	low	moderate
Arroyo Willow	<i>Salix lasiolepis</i>	20-25	491	550	6	35	rounded	moist	high	rapid
Australian willow	<i>Geijera parvifolia</i>	20-25	491	550	6	30	oval	well drained	moderate	moderate
California Buckeye	<i>Aesculus californica</i>	20-25	491	550	6	10 -25	rounded	clay, loam or sand	low	moderate
European hornbean	<i>Carpinus betulus</i>	20-25	491	550	6	40	columnar-oval	most soils	moderate	slow
flowering cherry	<i>Prunus serrulata</i> 'Kwanzan'	20-25	491	550	6	30	rounded	well drained	moderate	moderate
Gooding's Willow	<i>Salix gooddingii</i>	20-25	491	550	6	25	rounded	moist	high	fast
Jujube Chinese date	<i>Ziziphus jujube</i>	20-25	491	550	6	30	weeping	deep moist	high	moderate
Majestic Beauty Swan Hill	<i>Oleae europaea</i>	20-25	491	550	8	30	variable	well drained	low	slow
Marina strawberry tree	<i>Arbutus 'Marina'</i>	20-25	491	550	6	30	rounded	well drained	moderate	slow
Modesto Ash	<i>Fraxinus Velutina</i>	20-25	491	550	8	50	oval	moderate	low	moderate
purple leaf plum	<i>Prunus cerasifera</i>	20-25	491	550	6	30	rounded	most soils	moderate	fast
Red Willow	<i>Salix laevigata</i>	20-25	491	550	6	35	rounded	moist	high	rapid
Southern magnolia	<i>Magnolia grandiflora</i>	20-25	491	550	8	40	oval	deep moist	high	slow
sweet bay	<i>Laurus nobilis</i>	20-25	491	550	6	40	rounded	moist, sandy	high	slow
Allepo pine	<i>Pinus halepensis</i>	25-30	707	800	8	60	rounded top	most soils, dry typically	low	rapid

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American sweet gum	Liquidambar styraciflua	25-30	707	800	8	40	pyramidal	deep moist	high	moderate
aristocrat pear	Pyrus calleryana 'Aristocrat'	25-30	707	800	6	50	pyramidal	most soils	moderate	moderate to fast
Aspen	Populus tremuloides	25-30	707	800	4	65	columnar-oval	moist soils	high	fast
beefwood, she-oak	Casuarina stricta	25-30	707	800	8	70	broad-rounded	most soils	low	moderate
black alder	Alnus glutinosa	25-30	707	800	6	50	oval to pyramidal	wet, boggy	high	moderate
California Black Walnut	Juglans californica	25-30	707	800	6	30	rounded	loam or sand	low	moderate
Canary Island pine	Pinus canariensis	25-30	707	800	6	60	slender cone	poor sandy	low	rapid
Carob tree	Ceratonia siliqua	25-30	707	800	6	40	umbrella	most soils	moderate	moderate
Costal redwood	sempervirens	25-30	707	800	8	90	conical	deep moist	high	rapid
golden rain tree	Koelreuteria paniculata	25-30	707	800	6	35	round-head	most soils drained	moderate	slow moderate
Italian alder	Alnus cordata	25-30	707	800	6	40	round	wet, boggy	high	rapid
Japanese red pine	Pinus densiflora	25-30	707	800	6	80	broad to irregular	poor sandy	moderate	rapid

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Little Leaf Linden	Tilia cordata	25-30	707	800	6	50	broad headed	fertile moist	high	rapid
Mondell pine	Pinus eldarica	25-30	707	800	6	80	conical	most soils, dry typically	moderate	fast
Northern California black walnut	Juglans hindsii	25-30	707	800	8	30 to 60	variable	most soils	moderate	moderate
Oregon Ash	Fraxinus latifolia	25-30	707	800	6	65	oval	clay, loam or sand	moderate	fast
pin oak	Quercus palustris	25-30	707	800	6	50	oval	moist, poorly drained	high	rapid
Ponderosa pine	Pinus ponderosa	25-30	707	800	8	50	conical	most soils	low	moderate
Scotch pine	Pinus sylvestris	25-30	707	800	6	50	narrow pyramid	poor sandy	low	moderate
Topelo or sour gum	Nyssa sylvatica	25-30	707	800	6	60	cone	most soils wet	high	moderate
willow-leafed peppermint	Eucalyptus nicholii	25-30	707	800	6	40 feet	weeping	most soils	low	fast
willows	Salix sp.	25-30	707	800	6	25 to 70	variable	moist	high	fast
American Linden	Tilia americana	30-35	962	1200	6	60	broad headed	fertile	high	rapid
birch	Betula	30-35	962	1200	8	50 to 70	pyramidal	moist soils	high	fast
blue oak	Quercus douglasii	30-35	962	1200	8	50	oval	deep	low	moderate

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California bay	Umbellularia californica	30-35	962	1200	6	70	round	most soils moist	high	slow
California Sycamore	Platanus racemosa	30-35	962	1200	8	30-80	oval	most soils	moderate	fast
California white alder	Alnus rhombifolia	30-35	962	1200	8	50-90	conical	clay, loam or sand	moderate	rapid
Camphor tree	Cinnamomum camphora	30-35	962	1200	8	50 feet	broad-rounded	most soils	moderate	slow
Chinese elm	Ulmus parvifolia	30-35	962	1200	6	50	vase	most soils	moderate	rapid
Chinese hackberry	Celtis occidentalis	30-35	962	1200	6	60	broad top	most soils	low	moderate
Chinese pistache	Pistache chinensis	30-35	962	1200	6	60	spreading	most soils	moderate	slow
Coast live oak	Quercus agrifolia	30-35	962	1200	8	70	oval	most dry or moist	low	moderate
cork oak	Quercus suber	30-35	962	1200	8	100	broad	most drained	low	moderate
Deodar cedar	Cedrus deodora	30-35	962	1200	8	80	cone to broad top	most soils	low	fast
Engilsh walnuts	Juglans regia	30-35	962	1200	8	50	round	most soils	moderate	moderate
European hackberry	Celtis australis	30-35	962	1200	6	80	broad top	most soils	moderate	moderate
Evergreen ash	Fraxinus uhdei	30-35	962	1200	6	70	round-head	most well drained	moderate	fast

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gray Pine	Pinus sabiniana	30-35	962	1200	8	65	conical	deep	low	fast
holly oak	Quercus ilex	30-35	962	1200	6	70	round	most soils	low	moderate
incense cedar	decurrens	30-35	962	1200	8	50 – 90	cone	most soils	low	slow
Interior Live Oak	Quercus wislizenii	30-35	962	1200	8	65	oval	deep	low	moderate
London plane tree	Platanus acerifolia	30-35	962	1200	8	70	broad top	most deep	moderate	rapid
Maidenhair tree	Ginko biloba	30-35	962	1200	8	50	irregular shape	most soils	moderate	slow
Marshall green ash,	'Marshall'	30-35	962	1200	6	40	oval	most soils	moderate	fast
Norway maple	Acer platanoides	30-35	962	1200	8	50 -60	tight oval	moist / drained	high	rapid
pecan	Carya illinoensis	30-35	962	1200	8	70 to 100	broad-rounded	moist soils	high	fast
Peruvian & Brazillian peppertree	Schinus molle	30-35	962	1200	8	40	spreading & weeping	most soils	moderate	rapid invasive
Raywood ash	'Raywood'	30-35	962	1200	6	35	broad	most soils	moderate	fast
red maple	Acer rubrum var.	30-35	962	1200	6	60	oval-round	most soils	high	fast
red oak	Quercus rubra	30-35	962	1200	8	90	broad	deep moist	high	fast
scarlet oak	Quercus coccinea	30-35	962	1200	6	60	oval	dry, rocky sandy	moderate	rapid
Southern live oak	Quercus virginiana	30-35	962	1200	8	60	spreading	most soil moist	high	moderate to rapid

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tulip tree	Liriodendron tulipifera	30-35	962	1200	8	80	pyramidal	deep moist	high	moderate
Valley oak	Quercus lobata	30-35	962	1200	8	70	broad-spreading	deep	low	moderate
white alder	Alnus rhombifolia	30-35	962	1200	6	40 – 80	broad-rounded	wet or boggy	high	rapid
Zelkova	Zelkova serrata	30-35	962	1200	8	70	umbrella	most soils	high	rapid

Example of canopy square footage information

Tree Species	Number Planted	Tree Species Canopy for 1 tree	Total Canopy for tree species
Interior live oak	2	962	1924
evergreen pear	10	314	3140
		Total	5064

Dimensions for placing trees on plans

15 yr Square footage	radius of circle	diameter of circle
314	10	20
491	12.5	25
707	15	30
962	17.5	35
1200	19.6	39.2