



# Recommended Tree Species Selections for Urban and Community Forest Sustainability



## Recommended Tree Species List (2-21-2020) by Open Soil Surface Requirements\*

Species Common Name	Genus & Species	Canopy Size	Estimated minimum open soil surface area to reach 1 sq.ft. basal area	Estimated minimum cu.ft. soil volume of planting area in urban soils to reach 1 sq.ft. basal area	Overstory Landscape Areas	Road Frontage Street	Road Frontage Yard	Parking Lot Trees islands 400 to 600sq ft	Parking Lot Trees islands 100 to 400 sq ft	Buffers	Riparian/ Drainage Areas	Utility Corridors	Urban Tolerant	Notes
Baldcypress	<i>Taxodium distichum</i>	Overstory	640	960	X						X		X	N
Basswood, American (Linden)	<i>Tilia americana</i>	Overstory	640	960	X						X		X	N
Beech, American	<i>Fagus grandifolia</i>	Overstory	640	960	X						X			N
Chestnut, Chinese	<i>Castanea mollissima</i>	Overstory	640	960	X		X							
Elm, Chinese	<i>Ulmus parvifolia</i>	Overstory	640	960	X		X							N
Elm, Winged	<i>Ulmus alata</i>	Overstory	640	960	X	X	X	X*						N
Ginkgo (male)	<i>Ginkgo biloba</i>	Overstory	640	960	X	X	X	X*						
Hickory (spp.)	<i>Carya spp.</i>	Overstory	640	960	X									N
Honeylocust (seedless)	<i>Gleditsia triacanthos</i>	Overstory	640	960	X									N
London Planetree	<i>Platanus x acerifolia</i>	Overstory	640	960	X	X	X	X*			X		X	
Magnolia, Southern	<i>Magnolia grandiflora</i>	Overstory	640	960	X					X	X			N
Maple, Sugar	<i>Acer saccharum</i>	Overstory	640	960	X	X	X				X			N
Oak, Black	<i>Quercus velutina</i>	Overstory	640	960	X	X	X							N
Oak, Chestnut	<i>Quercus prinus</i>	Overstory	640	960	X	X	X	X*						N
Oak, Laurel	<i>Quercus hemisphaerica</i>	Overstory	640	960	X	X	X	X*						N
Oak, Northern Red	<i>Quercus rubra</i>	Overstory	640	960	X	X	X							N
Oak, Nuttall	<i>Quercus nuttalli</i>	Overstory	640	960	X	X	X	X*						N
Oak, Overcup	<i>Quercus lyrata</i>	Overstory	640	960	X	X	X	X*						N
Oak, Post	<i>Quercus stellata</i>	Overstory	640	960	X	X	X	X*						N
Oak, Sawtooth	<i>Quercus acutissima</i>	Overstory	640	960	X	X	X							
Oak, Scarlet	<i>Quercus coccinea</i>	Overstory	640	960	X	X	X	X*						N
Oak, Shumard	<i>Quercus shumardii</i>	Overstory	640	960	X	X	X	X*						N
Oak, Swamp White	<i>Quercus bicolor</i>	Overstory	640	960	X	X	X	X*			X			
Oak, Water	<i>Quercus nigra</i>	Overstory	640	960	X	X	X							N
Oak, White	<i>Quercus alba</i>	Overstory	640	960	X	X	X	X*						N
Oak, Willow	<i>Quercus phellos</i>	Overstory	640	960	X	X	X	X*						N

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Pagodatree, Japanese	<i>Saphora japonica</i>	Overstory	640	960	X		X							
Pecan	<i>Carya illinoensis</i>	Overstory	640	960	X	X	X							N
Planetree, London	<i>Platanus x acerifolia</i>	Overstory	640	960		X	X	X*						
Popular, Tulip	<i>Liriodendron tulipifera</i>	Overstory	640	960	X						X			N
Sweetgum (fruitless)	<i>Liquidambar styraciflua 'Rotundiloba'</i>	Overstory	640	960	X			X						N
Sycamore, American	<i>Platanus occidentalis</i>	Overstory	640	960	X									N
Tupelo, Swamp	<i>Nyssa ogeeche</i>	Overstory	640	960							X			
Walnut, Black	<i>Juglans nigra</i>	Overstory	640	960	X						X			N
Zelkova, Japanese	<i>Zelkova serrata</i>	Overstory	640	960	X			X						
Birch, River (std.)	<i>Betula nigra</i>	Midstory	400	600	X	X	X			X	X			N
Blackgum (Tupelo)	<i>Nyssa sylvatica</i>	Midstory	400	600	X	X	X	X			X		X	
Buckthorn, Carolina	<i>Rhamnus caroliniana</i>	Midstory	400	600	X	X	X		X		X			
Cedar, Deodar	<i>Cedrus deodara</i>	Midstory	400	600	X		X			X				
Cedar, Lebanon	<i>Cedrus libani</i>	Midstory	400	600	X		X							
Cherrylaurel, Carolina	<i>Prunus caroliniana</i>	Midstory	400	600			X		X	X	X			N
Elm, Chinese	<i>Ulmus alata</i>	Midstory	400	600	X	X	X	X	X					
Hemlock, Canadian	<i>Tsuga canadensis</i>	Midstory	400	600	X									
Hophornbeam, American	<i>Ostrya virginiana</i>	Midstory	400	600	X			X			X			N
Hornbeam, American	<i>Carpinus caroliniana</i>	Midstory	400	600	X		X	X	X		X			N
Hornbeam, European	<i>Carpinus betulus</i>	Midstory	400	600		X	X	X	X	X				
Katsura Tree	<i>Cercidiphyllum japonicum</i>	Midstory	400	600	X		X	X	X					
Locust, Black (seedless)	<i>Robinia pseudoacacia</i>	Midstory	400	600	X	X					X		X	N
Magnolia, Japanese (Saucer)	<i>Magnolia x soulangiana</i>	Midstory	400	600	X		X							
Magnolia, Southern "Little Gem"	<i>Magnolia grandiflora 'Little Gem'</i>	Midstory	400	600		X	X	X		X		X		N
Magnolia, Sweetbay	<i>Magnolia virginiana</i>	Midstory	400	600	X		X			X	X		X	N
Maple, Hedge	<i>Acer campestre</i>	Midstory	400	600	X	X	X	X			X			
Maple, Red (var.)	<i>Acer rubrum</i>	Midstory	400	600	X	X	X	X		X	X			N

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Maple, Southern Sugar	<i>Acer barbatum</i>	Midstory	400	600	X	X	X	X	X	X	X			N
Maple, Trident	<i>Acer buergeranum</i>	Midstory	400	600		X	X	X	X	X		X	X	
Pine, Virginia	<i>Pinus virginiana</i>	Midstory	400	600						X				N
Pistache, Chinese	<i>Pistacia chinensis</i>	Midstory	400	600		X	X	X	X				X	
Redcedar, Eastern	<i>Juniperus virginiana</i>	Midstory	400	600	X		X			X				N
Redwood, Dawn	<i>Metasequoia glyptostroboides</i>	Midstory	400	600	X		X			X				
Sassafras	<i>Sassafras albidum</i>	Midstory	400	600	X		X							N
Silverbell, Carolina	<i>Halesia carolina</i>	Midstory	400	600	X								X	N
Sourwood	<i>Oxydendrum arboreum</i>	Midstory	400	600	X		X						X	N
Yellowwood, American	<i>Cladrastis kentukea</i>	Midstory	400	600	X		X							
Chastetree (Vitex)	<i>Vitex agnus-castus</i>	Understory	250	225	X					X				
Cherry, Kwanzan	<i>Prunus serrulata</i>	Understory	250	225			X			X	X	X		
Cherry,Sargent	<i>Prunus sargentii</i>	Understory	250	225			X			X		X		
Cherry, Yoshino	<i>Prunus x yedoensis</i>	Understory	250	225			X			X		X		
Crabapple, Japanese Flowering	<i>Malus floribunda</i>	Understory	250	225		X	X			X		X		
Cryptomeria	<i>Cryptomeria japonica</i>	Understory	250	225	X					X				
Dogwood, Flowering	<i>Cornus florida</i>	Understory	250	225	X		X			X		X		
Flametree, Chinese (Bougainvillea)	<i>Chionanthus retusus</i>	Understory	250	225	X	X		X			X	X	X	
Fringetree (Grancy Gray Beard)	<i>Chionanthus virginicus</i>	Understory	250	225	X	X					X	X	X	
Golden Rain Tree	<i>Koelreuteria paniculata</i>	Understory	250	225		X	X	X	X					
Hawthorn, Washington	<i>Crataegus phaenopyrum</i>	Understory	250	225		X	X		X			X		N
Maple, Japanese	<i>Acer palmatum</i>	Understory	250	225	X		X					X		
Plum, Purpleleaf	<i>Prunus cerasifera</i>	Understory	250	225						X		X		
Redbud, Eastern	<i>Cercis canadensis</i>	Understory	250	225	X	X	X	X		X		X		N
Serviceberry, Downey	<i>Amelanchier arborea</i>	Understory	250	225	X	X	X			X	X	X	X	
Alder, Hazel	<i>Alnus serrulata</i>	Small	100	125	X						X	X	X	N
Crapemyrtle, Common	<i>Lagerstroemia indica</i>	Small	100	225		X	X	X	X			X	X	
Holly, American	<i>Ilex opaca</i>	Small	100	125			X	X		X			X	N
Smoketree	<i>Cotinus obovatus</i>	Small	100	125			X					X		

Note (N) = native | \*(OSSA) @ 1 sq.ft. Basal area | X\* - only for large > 600 sq.ft. OSSA islands