

Common name	Scientific name	Small Tree: <30' ht., 4-6' wide tree lawn, 25' spacing	Light Conditions: Full Sun = F Partial Sun = P Shade tolerant = Sh	Soil Moisture: Good Drainage = D Moist = M Frequently Wet = W	Growth Rate: Slow = S Moderate = M Fast = F	Fruit or Nuts	Showy Flowers	Fall Color	Evergreen	Native to SC	Notes	Cultivars
Maple, Purple Blow	Acer truncatum	●	F, P	D, M	S			●			Use instead of Red Maple	Many cultivars
Red Buckeye	Aesculus pavia	●	P	D, M, W	S	●	●			●	Suckering shrub or small multi-stemmed tree, All plant parts poisonous to people, pets, livestock	
Serviceberry	Amelanchier arborea	●	P	M, W	S	●	●	●		●	Suckers from trunk base. Prone to diseases in the rose family.	Amelanchier x grandiflora cultivars are more disease resistant
Jelly Palm (Pindo)	Butia capitata	●	F	D, M	S	●	●		●		3' to 5' or larger leaves need removing when they die back	
Hornbeam, American	Carpinus caroliniana	●	P, Sh	D, M, W	S					●	Do not plant in sidewalk cutouts, narrow R/W, or parking lots	
Redbud	Cercis canadensis	●	P	D, M	M	●	●			●	Requires some shade, preferably afternoon shade	More heat, drought tolerant cultivars: 'Merlot' (purple leaves), 'Oklahoma' (green leaves)
Fringetree, Chinese	Chionanthus retusus	●	F, P	D, M	M	●	●				Durable street tree in Columbia, Order single trunk trees	
Fringetree, American	Chionanthus virginicus	●	P	D, M, W	S	●	●			●	Multi-stemmed trunk	
Dogwood, Flowering	Cornus florida	●	P, Sh	D, M	M	●	●	●		●	Susceptible to powdery mildew, leaf spot diseases	Must use disease resistant cultivars, including 'Appalachian Joy (white)', 'Cherokee Brave (pink)'
Dogwood, Kousa	Cornus kousa	●	P	D, M	S	●	●	●			Greater drought tolerance than C. florida	Many cultivars
Dogwood, Cornelian-Cherry	Cornus mas	●	P	D, M	S	●	●	●			Large suckering shrub or small multi-stemmed tree	
Smoketree, Common	Cotinus coggygria	●	F	D, M	S		●	●			Height 10' - 15'	Many cultivars
Smoketree, American	Cotinus obovatus	●	F, P	D, M	S		●	●				
Green Hawthorn	Crataegus viridis	●	F	D, M	S	●	●			●	Must use thornless, disease resistant cultivars. Species tolerates urban pollution, drought. Moist soils may trigger root suckering.	Cultivar 'Winter King' is thornless, more disease resistant
Loquat	Eriobotrya japonica	●	F,P	M	M	●	●		●		Labeled invasive in other countries	
Franklin Tree	Franklinia alatamaha	●	P	D, M	S		●	●			Intolerant of drought, heavy clay soils	
Witchhazel, Common	Hamamelis virginiana	●	P, Sh	D, M, W	S		●	●		●	Flowers in winter, prefers consistently moist soil, Intolerant of drought	
Possumhaw	Ilex decidua	●	P,Sh	D, M, W	M	●				●	Height 7' - 15' in urban settings, can form suckering thicket, plant female trees with a male pollinator for berries	

Holly, Lusterleaf	Ilex latifolia	●	F, P, Sh	D, M	M	●		●	Female trees need male trees to produce berries, prefers afternoon shade
Holly, Savannah	Ilex x attenuata 'Savannah'	●	F, P	D, M	F	●		●	Female trees need male trees to produce berries
Holly, Foster	Ilex x attenuata 'Fosteri'	●	P	D, M	F	●		●	
Holly, Nellie R. Stevens	Ilex x Nellie R. Stevens	●	P	D, M	F	●		●	
Magnolia, Star	Magnolia stellata	●	P	D, M	S	●	●		
Magnolia, Saucer	Magnolia X soulangiana	●	P	D, M	M	●	●		This tree grows well in yards in Columbia, best away from pavement Several cultivars including: 'Rustica Rubra', 'Alexandrina'
Crabapple	Malus spp.	●	F	D, M	M	●	●		Must use disease resistant cultivars such as 'Adams', 'Prairifire', 'Purple Prince', 'Zumi Calocarpa'
Waxmyrtle, Southern	Myrica cerifera	●	F, P	D, M, W	F	●		●	Tends to sucker, form colonies
Cherry Laurel, Carolina	Prunus caroliniana	●	P, Sh	D, M	F	●	●	●	Durable street tree in Columbia, Produces many seedlings
Plum, Purple Leaf	Prunus cerasifera	●	F, P	D, M	M	●	●		Leaves stay purple in growing season Fruitless cultivar 'Krauter Vesuvius'
Apricot, Japanese Flowering	Prunus mume	●	P	D, M	M	●	●		
Cherry, Japanese Flowering	Prunus spp.	●	P	D, M	M		●	●	Try Higan Cherry Prunus subhirtella, Yoshino Cherry Prunus x yedoensis
Oak, Ring Cupped (Blue Japanese Oak)	Quercus glauca	●	P	D, M	S	●			May grow 40' tall, Need initial pruning to develop central leader
Snowbell, Japanese	Styrax japonicus	●	P	M, W	M		●		Intolerant of heat, drought
Arborvitae	Thuja spp.	●	P	D, M	M			●	Arborvitae has cultivars < 30'; 'Can Can', 'Pyramidalis' 'Emerald Green', more
Blackhaw Viburnum	Viburnum prunifolium	●	P	D, M	S	●	●	●	Multi-stemmed shrub needing pruning to become small tree
Chastetree	Vitex negundo	●	F	D, M	F		●		Multi-stemmed shrub or small multi-stemmed tree

Common name	Scientific name	Medium Tree: 30'-50' ht., 6'-9' wide tree lawn, 30' spacing	Light Conditions: Full Sun = F Partial Sun = P Shade tolerant = Sh	Soil Moisture: Good Drainage = D Moist = M Frequently Wet = W	Growth Rate: Slow = S Moderate = M Fast = F	Fruit or Nuts	Showy Flowers	Fall Color	Evergreen	Native to SC	Notes	Cultivars
Maple, Trident	Acer buergerianum	●	F, P	D, M, W	M			●			Durable street tree in Columbia	Multiple cultivars including 'Streetwise', 'Aeryn', 'Valynor'
Maple, Southern Sugar	Acer barbatum (floridanum)	●	F, P	D, M, W	M			●		●		
Pawpaw	Asimina triloba	●	F, P, Sh	D, M, W	M	●		●		●		Several cultivars for large fruit size
Birch, River	Betula nigra	●	P	M, W	F					●		More heat tolerant cultivars: 'Heritage', 'DuraHeat'
Hornbeam, European	Carpinus betulus	●	F, P	D, M, W	S			●				Multiple cultivars for shape, leaf color
Catalpa, Southern	Catalpa bignonioides	●	F, P	D, M, W	F	●	●				Irregular crown shape, Flower, fruit, leaf litter debris	Cultivars for leaf color
Katsura	Cercidiphyllum japonicum	●	F	D, M	M			●			Intolerant of drought	Cultivars for leaf color, height
Falsecypress, Japanese	Chamaecyparis pisifera	●	F,P	D, M	S				●			Many cultivars for height and leaf color, shape
Whitecedar, Atlantic	Chamaecyparis thyoides	●	F, P	M, W	M				●	●		Cultivars for height, leaf shape and color
Yellowwood	Cladrastis kentukea	●	F	D, M	S	●	●	●		●	Needs pruning to develop good limb structure, Brittle wood, May not bloom annually	
Persimmon	Diospyros virginiana	●	F, P	D, M	M	●		●		●	Drought tolerant, May develop root suckers	Cultivars for fruit
Silverbell, Common	Halesia carolina	●	P	D, M	M		●	●		●	Sensitive to heat, drought, and soil compaction	Cultivars for flower and leaf color
Holly, American	Ilex opaca	●	F,P	D, M, W	S	●			●	●	Need male and female trees	Many cultivars
Redcedar, Eastern	Juniperus virginiana	●	F, P	D, M, W	M	●			●	●	Very durable street tree, Alternate host for fungal pathogen cedar-apple rust	Cultivars for height and leaf color
Osage-Orange	Maclura pomifera	●	F	D, M, W	F	●		●			Has 1/4"-1" spines, Female trees produce 4"-6" inedible fruit	Only use thornless male cultivars, including 'White Shield', 'Double O'
Magnolia, Sweetbay	Magnolia virginiana	●	P	D, M, W	F	●	●		●	●		Cultivars for height and flowering
Gum, Black	Nyssa sylvatica	●	F	D, M, W	M	●		●		●		Cultivars for fall color, resistance to leaf spot
Hop-hornbeam, American	Ostrya virginiana	●	F, P, Sh	D, M	S			●		●		
Sourwood	Oxydendrum arboreum	●	F, P	D, M	S		●	●		●	Intolerant of urban pollution, drought	Cultivars for fall color, 'Chameleon', 'Mr. Charm'

Parrotia, Persian	Parrotia persica	●	F, P	D, M	S	●					USDA Plant Hardiness Zone 7a-7b but grew well in Columbia, pruning may be needed for lots of base trunk sprouts, Drought tolerant, urban pollution tolerant, Intolerant of frequently wet soil	Cultivars for fall color, tree shape
Pistachio, Chinese	Pistacia chinensis	●	F	D, M	M	●		●			Durable street tree in Columbia, Drought and urban pollution tolerant, Initial pruning may be needed to develop good form	Get male cultivar 'Keith Davey' as female trees have ugly fruiting
Cherry-laurel, Carolina	Prunus caroliniana	●	F, P	D, M, W	F	●	●		●	●	Drought tolerant, Durable urban tree in Columbia, May sucker from roots, Produce many seedlings	Cultivar Bright 'N Tight is shorter
Oak, Overcup	Quercus lyrata	●	F	D, M, W	S	●				●		
Palmetto	Sabal palmetto	●	F	D, M, W	M	●	●		●	●	Not a tree, may be used for small sidewalk cutouts where trees can't be planted, dead large leaves need to be pruned off, large flower and fruit stalks	
Arborvitae	Thuja spp.	●	F	D, M	S				●	●	Intolerant of dry, windy sites, USDA Hardiness Zones 7a - 7b	Many cultivars for height, leaf color
Windmill Palm	Trachycarpus fortunei	●	P	D, M	M	●	●		●	●	Not a tree, may be used for small sidewalk cutouts where trees can't be planted, dead large leaves need to be pruned off, large flower and fruit stalks	

Common name	Scientific name	Large Tree: >50' ht., ≥ 10' wide tree lawn, 40'-50' spacing	Light Conditions: Full Sun = F Partial Sun = P Shade tolerant = Sh	Soil Moisture: Good Drainage = D Moist = M Frequently Wet = W	Growth Rate: Slow = S Moderate = M Fast = F	Fruit or nuts	Showy Flowers	Fall Color	Evergreen	Native to SC	Notes: All large trees are best for large soil spaces	Cultivars
Maple, Red	Acer rubrum	●	F, P	D, M	F			●		●	Do not plant near pavement or in hot, dry sites	Cultivars tolerant of Florida heat are 'Florida Flame', 'Summer Red', 'Red Sunset', and 'Autumn Flame'
Pecan	Carya illinoensis	●	F, P	D, M	M	●		●		●	Drought tolerant, Big nuts, big leaves, litter debris	Cultivars for pecan characteristics, disease resistance
Hickory species	Carya ssp.	●	F, P	D, M	S	●		●		●	Drought and heat tolerant, Durable long-lived trees, Big nuts, big leaves, litter debris	Hickory species in SC include Carya glabra, Carya tomentosa, Carya ovata
Cedar, Atlas	Cedrus atlantica	●	F	D, M	M	●			●		Recommended as specimen tree only, Cones 1"-3" long	Cultivars for size and leaf color
Cedar, Deodar	Cedrus deodara	●	F	D, M	M	●			●		Intolerant of poorly drained soils, Cones > 3"-4" long X 2" wide, Good as specimen tree	Many cultivars for size and leaf color
Hackberry	Celtis occidentalis	●	F, P	D, M	F	●				●		Sugarberry, Celtis laevigata, is very similar native tree
Falsecypress, Hinoki	Chamaecyparis obtusa	●	F	D, M	M			●			Height 50' - 75', Width 10' - 25', Recommended as a specimen tree only	Many cultivars for size and leaf color
Cedar, Japanese	Cryptomeria japonica	●	P	D	M				●			Many cultivars for size and leaf color
Beech, American	Fagus grandifolia	●	F, S	D, M	S			●		●	Intolerant of poorly drained soils	
Ginkgo	Ginkgo biloba	●	F	D, M	M			●			Intolerant of poorly drained soils, Only choose male trees, Did poorly as a street tree in Columbia	Many male cultivars for size and leaf shape
Honeylocust, Thornless	Gleditsia triacanthos var. inermis	●	F	D, M	F	●					Drought and urban pollution tolerant, Over planted in some cities leading to disease and insect problems	Cultivars include 'Shademaster', 'Moraine'
Kentucky Coffee Tree	Gymnocladus dioica	●	F	D, M	F	●	●				Tendency to sprout from roots, Large leaves 3' x 2', Female trees can have 10" x 3" seedpods, litter debris	
Sweetgum	Liquidambar styraciflua	●	F	D, M	F	●		●		●	Spiky fruit capsule	Fruitless cultivar 'Rotundiloba'
Tulip Poplar	Liriodendron tulipifera	●	F	D, M	F		●	●		●	Sensitive to heat and drought	Cultivars for tree shape and size
Magnolia Cucumbertree	Magnolia acuminata	●	F, P	D, M	M	●	●			●	Sensitive to heat, drought, soil compaction	
Magnolia, Southern	Magnolia grandiflora	●	F, P	D, M	M	●	●		●	●	Tendency for limbs close to ground	Many cultivars for size and flowering
Redwood, Dawn	Metasequoia glyptostroboides	●	F	D, M	F				●		60'-100' height 25' width	
Pine, Longleaf	Pinus palustris	●	F	D, M	F	●			●	●	6" - 15" cones,	
Pine, Loblolly	Pinus taeda	●	F	D, M	F	●			●	●	3" - 6" cones	
Sycamore	Platanus occidentalis	●	F	D, M, W	F	●				●	75' - 100' height and width, Twig drop, Large leaves, 1" fruit ball, litter debris,	
Planetree, London	Platanus x acerifolia	●	F	D, M, W		●					75' - 100' height and width, Twig drop, Large leaves, 1" fruit ball, litter debris,	Anthracnose resistant cultivars 'Columbia', 'Liberty'
Cherry, Black	Prunus serotina	●	F, P	D, M	F	●	●			●	Durable street tree, Numerous seedlings	

Oak, White	Quercus alba	●	F	D, M	S	●	●	●	Intolerant of poorly drained soil,
Oak, Swamp White	Quercus bicolor	●	F	D, M, W	M	●	●	●	
Oak, Southern Red	Quercus falcata	●	F	D, M	M	●		●	
Oak, Bur	Quercus macrocarpa	●	F	D, M	M	●			Acorns and the bur cup can be 3" x 3"
Oak, Pin	Quercus palustris	●	F	D, M, W	F	●	●		Tolerant of poorly drained soils,
Oak, Willow	Quercus phellos	●	F	D, M	F	●	●	●	Charlotte, NC, had cankerworm outbreak due to overplanting of willow oaks
Oak, Shumard	Quercus shumardii	●	F	D, M	M	●	●	●	
Oak, Post	Quercus stellata	●	F	D, M	M	●		●	
Oak, Nuttall	Quercus texana	●	F	D, M, W	F	●	●		Tolerant of poorly drained soils
Oak, Live	Quercus virginiana	●	F	D, M	M	●		●	Height 40' - 80', Width 30' - 100'
Oak, Cherrybark	Quercus pagoda	●	F	D, M	F	●			Height 90' - 130'
Oak, Chesnut	Quercus montana	●	F	D, M	S	●			
Cypress, Pond	Taxodium distichum var. imbricarium	●	F	D, M, W	M			●	Tolerant of standing water, Not expected to develop knees in dry soil, Same species as T. ascendens
Cypress, Bald	Taxodium distichum	●	F	D, M, W	M			●	Tolerant of standing water, Not expected to develop knees in dry soil
Basswood	Tilia americana	●	F, P	D, M	M	●			Flower and seed litter debris
Elm, American	Ulmus americana	●	F, P	D, M, W	M			●	American elm cultivars require significant pruning in first 15 years