

### Shade Trees

Common Name	Scientific Name	Width at Maturity	Height at Maturity	Irrigated Tree Wells/Grates	Street	Parking Lot Interiors	Parking Lot Perimeters/ Planting Strips	Residential Yard	Buffers	Comments / "Approved Cultivars"
Alder, Manchurian	<i>A/nus hirsuta</i>	20	40	y		y	y	y	y	
Ash, Green	<i>Fraxinus pennsylvanica</i>	25	50					y	y	Cultivars only,: "Patmore", "Summit", "Marhsall's Seedless"; Borers can still be a problem
Ash, White	<i>Fraxinus americana</i>	40	50					y		Cultivatrs only: "American Applause", "Autumn Purple®"; Needs space
Beech, American	<i>Fagus grandifolia</i>	40	50						y	Shallow roots
Birch, River	<i>Betu/a nigra</i>	40	40				y	y	y	Drought sensitive, "DuraHeat®", "Fox Valley", "Heritage", "Suwanee"
Birch, Sweet	<i>Betu/a Jenta</i>	35	40				y	y	y	
Buckeye, Yellow	<i>Aescu/us flava</i>	30	50						y	Moist soils only
Cedar, Atlantic White*	<i>Chamaecyparis thyoides</i>	10	40					y		Full Sun
Cedar, Atlas*	<i>Cedrus atlantica</i>	30	40					y		Specimen tree
Cedar, Blue Atlas*	<i>Cedrus atlantica 'G/auca'</i>	40	60				y	y	y	No wet or poorly drained soils
Cedar, Deodar*	<i>Cedrus deodara</i>	30	40				y	y	y	Needs space; "Aurea"
Cedar, Eastern Red*	<i>Juniperus virginiana</i>	10	30					y		Needs full sun; "Brodie", "Emerald Sentinel", "Princeton Sentry"
Cedar, Incense	<i>Ca/ocedrus decurrens</i>	10	30					y	y	
Coffeetree, Kentucky	<i>Gymnoc/adus dioicus</i>	40	60			y	y	y	y	Drops pods
Cryptomeria, Japense*	<i>Cryptomeria japonica</i>	25	50					y	y	"Ben Franklin", "Black Dragon", "Compacta", "Lobbii", "Yoshino"
Cypress, Arizona*	<i>Cupressus arizonica</i>	15	30				y	y	y	Best in full sun

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Cypress, Bald	<i>Taxodium distichum</i>	20	50				y	y	y	"Monarch of Illinois", "Shawnee Brave", "Autumn Gold", Needs space
Dogwood, Giant	<i>Camus controversa</i>	20	35	y				y	y	
Elm, Lacebark (Chinese)	<i>Ulmus parvifolia</i>	35	40	y	y		y	y	y	Needs to be trained to central leader, "Athena®", "Allee®", "Drake", "Bosque"; Needs Space
Falsecypress, Hinoki*	<i>Chamaecyparis obtuse</i>	10	50						y	"Crippssii", "Fernspray", "Fernspray Gold", "Kosteri", "Mariesii", "Tempelhof"
Falsecypress, Japanese*	<i>Chamaecyparis pisifera</i>	10	50						y	"Boulevard", "Lemon Thread", "Snow", "Tsukuma"
Fir, China	<i>Cunninghamia Janceo/ata</i>	20	30						y	"Chason's Gift"
Fir, Cilicica*	<i>Abies cilicica</i>	25	60						y	
Fir, Japanese*	<i>Abies firma</i>	20	40					y	y	
Gum, Black	<i>Nyssa sylvatica</i>	20	40				y	y	y	No standing water, residential street tree only
Hackberry (Sugarberry)	<i>Ce/tis Jaevigata</i>	60	60					y	y	
Hackberry	<i>Ce/tis occidentalis</i>	40	40	y		y	y	y	y	"Prairie's Pride"
Hemlock, Southern Japanese*	<i>Tsuga sieboldii</i>	20	30					y	y	
Holly, American*	<i>1/exopaca</i>	20	30				y	y	y	Single trunk only
Honeylocust	<i>G/editsia triacanthos</i>	25	50				y	y	y	Thornless cultivars only

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Hornbeam, American	<i>Carpinus caroliniana</i>	20	30	y		y	y	y	y	
Linden, American	<i>Tilia americana</i>	45	60	y		y	y	y	y	Not good for wet sites
Magnolia, Cucumber Tree	<i>Magnolia acuminata</i>	50	50					y		"Yellow Fever"
Magnolia, Freeman*	<i>Magnolia x 'Freeman'</i>	30	60					y	y	
Magnolia, Hybrid	<i>Magnolia x spp.</i>	30	40				y	y	y	"Yellow Bird"
Magnolia, Southern*	<i>Magnolia grandiflora</i>	30	40					y	y	"Alta ", "Baldwin", "Claudia Wannamaker", "D.D. Blancher", "Dearing", "Edith Bogue", "Gloriosa", "Goliath", "Greenback", "Hasse", "Kingsville", "Majestic Beauty", "Russet", "Samual Sommer", "Satin Leaf"
Maple, Freeman	<i>Acer x freemanii (rubrum x saccharum)</i>	20	40					y	y	"Armstrong", "Autumn Blaze", "Celebration/Ce/zam", "Marmo", "Morgan", "Scarlet Sentinel"
Maple, Nippon	<i>Acer nipponicum</i>	30	50				y	y	y	
Maple, Red	<i>Acerrubrum</i>	25	40					y	y	"Autumn Flame", "Autumn Radiance", "Bowhall", "Burgundy Belle", "Northwood", "October Brilliance", "October Glory", "Red Sunset", "Schlesingeri", "Shade King", "V.J. Drake"

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Maple, Sugar	<i>Acer saccharum</i>	30	50		y	y	y	y	y	"Arrowhead", "Bonfire", "Caddo", "Commemoration", "Green Mountain", "Goldspire", "Legacy", "Newton Sentry", "Seneca Chief", "Sweet Shadow"
Mountainash, Korean	<i>Sorbus alnifolia</i>	20	30					y	y	"Redbird"; "Skyline"
Oak, Bur	<i>Quercus macrocarpa</i>	70	70					y		Tolerates urban conditions, but difficult to transplant
Oak, Chestnut	<i>Quercus prinus</i>	40	60					y	y	Wildlife food
Oak, Columnar English	<i>Quercus robur Fastigiata</i>	10	50					y	y	
Oak, Daimyo	<i>Quercus dentate</i>	50	50					y	y	"Pinnatifida"
Oak, English	<i>Quercus robur</i>	40	40					y		Needs a lot of space; "Filicifolia", "Variegata"
Oak, Laurel*	<i>Quercus hemisphaerica</i>	30	40	y		y	y	y	y	Soil needs to be well-drained
Oak, Oriental	<i>Quercus variabilis</i>	40	60					y	y	
Oak, Overcup	<i>Quercus lyrata</i>	35	35			y	y	y	y	"Highbeam®"
Oak, Pin	<i>Quercus pa/ustris</i>	40	60					y	y	Tends to have more surface roots
Oak, Post	<i>Quercus stel/ata</i>	30	40			y		y	y	
Oak, Red	<i>Quercus rubra</i>	60	60					y	y	Needs sun, drought and pollution tolerant
Oak, Sawtooth	<i>Quercus acutissima</i>	30	30	y	y	y	y	y	y	Very adaptable
Oak, Shingle	<i>Quercus imbricaria</i>	50	50					y	y	

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Oak, Shumard Red	<i>Quercus shumardii</i>	40	40					y	y	Shallow roots
Oak, Southern Red	<i>Quercus fa/cate</i>	50	70					y	y	
Oak, Swamp Chestnut	<i>Quercus michauxii</i>	50	60					y	y	Shallow roots
Oak, Swamp White	<i>Quercus bicolor</i>	50	50					y	y	Not good with air pollution
Oak, Water	<i>Quercus nigra</i>	30	50					y	y	
Oak, Willow	<i>Quercus phel/os</i>	30	60			y	y	y	y	
Pear, Chinese sand	<i>Pyrus pyrifolia</i>	30	30				y	y		Needs well-drained soil and sun
Pecan	<i>Carya illinoensis</i>	40	70					y	y	
Persimmon	<i>Diospyros virginiana</i>	20	30						y	
Pine, Bosnian*	<i>Pinus heldreichii</i>	30	70						y	
Pine, Cluster*	<i>Pinus pinaster</i>	20	40						y	
Pine, Japanese Black*	<i>Pinus thunbergiana</i>	25	50					y	y	
Pine, Lacebark*	<i>Pinus bungeana</i>	20	30						y	
Pine, Loblolly*	<i>Pinus taeda</i>	30	50						y	
Pine, Longleaf*	<i>Pinus pa/ustris</i>	30	80						y	Needs sandy soil, prone to storm damage, dense buffers only
Pine, Pond*	<i>Pinus serotina</i>	20	30						y	Needs sun
Pine, Scotch*	<i>Pinus sylvestris</i>	20	30					y	y	Needs sun and well-drained soil
Pine, Spruce*	<i>Pinus glabra</i>	30	40						y	
Pistachio, Chinese	<i>Pistacia chinensis</i>	25	30	y	y	y	y	y	y	
Planetree, London	<i>Platanus acerifolia</i>	65	70	y		y	y	y	y	"Columbia"
Planetree, Oriental	<i>Platanus orientalis</i>	50	60			y	y	y	y	

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Poplar, Tulip	<i>Liriodendron tulipifera</i>	20	40					y	y	"Arnold"
Raisintree, Japanese	<i>Hovenia dulcis</i>	20	30				y	y	y	
Redwood, Dawn	<i>Metasequoia glyptostroboides</i>	15	50				y	y	y	"Ogon"
Redwood, Sierra*	<i>Sequoiadendron giganteum</i>	25	60				y	y	y	"Hazel Smith"
Redwood, Soquel*	<i>Sequoia sempervirens</i>	20	50				y	y	y	
Sassafras	<i>Sassafras albidum</i>	25	30						y	
Spruce, Purple Lijiang	<i>Picea likiangensis</i>	15	30					y	y	
Sweetgum	<i>Liquidambar styraciflua</i>	50	60			y	y	y	y	Drought sensitive, "Rotundiloba" (fruitless)
Sweetgum, Formosan	<i>Liquidambar formosana</i>	25	40						y	
Tulip Tree, Chinese	<i>Liriodendron chinense</i>	35	70						y	
Willow, Hankow/Pekin	<i>Salix matsudana</i>	20	40					y	y	
Willow, Weeping	<i>Salix babylonica</i>	20	30						y	Somewhat brittle, so should be protected in buffers
Willow, White	<i>Salix alba var. sericea</i>	50	60				y	y	y	Moist Soils
Zelkova, Japanese	<i>Zelkova serrata</i>	40	50	y	y	y	y	y	y	"Autumn Glow", "GreenVase", "Green Veil", "Halka", "Spring Grove", "Village Green"
Zelkova, Schneider	<i>Zelkova schneideriana</i>	50	50	y	y	y	y	y	y	

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Alder, Japanese	<i>A/nus japonica</i>	10	15	y			y		y	
Apricot, Japanese	<i>Prunus mume</i>	15	20	y			y		y	Best on well-drained sites
Birch, River	<i>Betu/a nigra</i>	20	20				y		y	"Heritage®" cultivar only
Buckeye, Hybrids	<i>Aescu/usx</i>	15	15						y	Moist soils only; "Arnoldiana", "Homestead"
Buckeye, Red	<i>Aescu/us pavia</i>	10	10				y		y	"Splendens", "Humilis"
Buckeye, Painted	<i>Aescu/us sylvaticalgeorgiana</i>	10	10						y	Moist soils only
Cherry, Higan	<i>Prunus subhirtel/a</i>	15	15	y			y			
Cherry, Japanese Flowering	<i>Prunus serullata</i>	15	20	y	y		y		y	"Accolade", "Okame", "Snow Goose", "Kwanzan", Best on well-drained sites, Beetles and root rot can be problems
Cherry Laurel, Carolina*	<i>Prunus caroliniana</i>	10	10				y		y	"Compacta", "Emerald King™", "Bright 'N Tight™"; Needs good drainage
Chinquapin	<i>Castanea pumila</i>	10	20						y	
Crabapple	<i>Ma/us spp.</i>	10	10							"Adirondack", "Centurion®", "Coralburst™", "David", "Glendora White", "Golden Raindrops", "Indian Magic", "Madonna®", "Prairifire", "Spring Snow", "Snowdrift", "Sugar Tyme®", <i>floribunda</i> , <i>sargentii</i>



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Crape myrtle	<i>Lagerstroemia indica</i>	10	15	y	y					"Burgundy Cotton®", "Byers Standard Red", "Byers Wonderful White", "Catawba", "Centennial Spirit", "Cherokee", "Dallas Red", "Dynamite™", "Near East", "Peppermint Lace", "Potomac", "Powhatan", "Red Rocket®", "Sarah's Favorite", "Seminole", "Siren Red®", 'Tonto", "Watermelon Red", "White Chocolate", "Yuma"; no dwarf cultivars; pruned to tree form
Crape myrtle	<i>Lagerstroemia indica x Lagerstroemia faurei</i>	10	15	y	y					"Acoma", "Arapahoe", "Biloxi", "Cheyenne", "Choctaw", "Lipan", "Miami", "Muskogee", "Natchez", "Osage", "Pecos", "Sioux", "Tuscarora", "Tuskegee", "Zuni"; no dwarf cultivars; pruned to tree form
Crape myrtle, Fantasy	<i>Lagerstroemia faurei</i>	10	15	y						
Cypress, Italian	<i>Cupressus sempervirens</i>	5	20						y	"Glauca", "Wichita Blue"
Dogwood	<i>Cornusxspp.</i>	20	20				y		y	"Aurora®", "Celestial®", "Constellation®", "Stellar Pink®",

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Dogwood, Chinese	<i>Camus kousa chinensis</i>	15	20	y			y		y	
Dogwood, Cornelian Cherry	<i>Cornusmas</i>	15	20						y	"Aurea", "Spring Glow", "Variegata"
Dogwood, Flowering	<i>Camus florida</i>	20	20						y	Needs partial shade, "Cloud 9", "Weaver's White", "Red Cloud", "Rubra"
Dogwood, Kousa	<i>Camus kousa</i>	20	20				y		y	"Wolf Eyes", "Satomi"
Fringetree	<i>Chionanthus virginicus</i>	15	15				y		y	Tree form only
Fringetree, Chinese	<i>Chionanthus retusus</i>	20	15				y		y	Well drained; tree form only
Goldenrain Tree	<i>Koelreuteria paniculata</i>	15	20	y	y		y		y	"September"
Holly, Dahoon*	<i>I/ex cassine</i>	10	20				y		y	"Baldwin", "Bryanii", "Tortifolia", "Tryon Palace", "Wild Robert"
Holly, Long Stalk*	<i>I/ex pedunculosa</i>	15	20				y		y	
Holly, Weeping Yaupon*	<i>I/ex vomitoria f pendula</i>	10	20				y		y	
Holly, Nellie R. Stevens*	<i>I/ex x 'Nellie R. Stevens'</i>	10	25				y		y	
Holly, Carolina Sentinel*	<i>I/ex x 'Carolina Sentinel'</i>	10	20				y		y	
Holly, Foster's*	<i>I/ex x attenuata</i>	10	20				y		y	"East Palatka", "Foster's #2", "Savannah", "Sunny Foster"
Hophornbeam, American	<i>Ostrya virginiana</i>	15	25	y			y		y	
Hornbeam, Heartleaf	<i>Carpinus cordata</i>	10	20				y		y	
Hornbeam, Japanese	<i>Carpinus japonica</i>	10	20				y		y	
Maackia, Amur	<i>Maackia amurensis</i>	20	20	y			y		y	
Magnolia, Columbus	<i>Magnolia x vietchii</i>	15	25	y			y		y	

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Magnolia, Hybrid	<i>Magnolia x spp.</i>	15	15				y		y	"Ann", "Athene", "Betty", "Butterflies", "Elizabeth", "Galaxy", "Jane", "Jon Jon", "Judy", "Paul Cook", "Pristine", "Randy", "Ricki", "Royal Crown", "Spectrum", "Susan", "Tina Durio", "Vulcan"
Magnolia, Hybrid Evergreen*	<i>Magnolia x spp.</i>	15	20				y		y	"Monland"
Magnolia, Lily	<i>Magnolia liliiflora</i>	10	10				y		y	"O'Neill", "Nigra"
Magnolia, Little Gem*	<i>Magnolia grandiflora</i> 'Little Gem'	10	15		y		y		y	"Little Gem"
Magnolia, Loebner	<i>Magnolia x loebneri</i>	20	20				y		y	"Balleriana", "Leonard Messel", "Merrill", "Spring Snow", "Super Star", "white Stardust"
Magnolia, Oyama	<i>Magnolia sieboldii</i>	10	10				y		y	
Magnolia, Saucer	<i>Magnolia x soulangiana</i>	15	15		y		y		y	"Alexandrina" (tree form), "Rustica Rubra"
Magnolia, Southern*	<i>Magnolia grandiflora</i>	20	20				y		y	"Baby Doll", "Bracken's Brown Beauty", "Green Giant", "St. Mary", "Victoria"
Magnolia, Star	<i>Magnolia stel/ata</i>	10	10				y		y	"Pink Stardust", "Royal Star"

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Magnolia, Sweetbay (Swamp)	<i>Magnolia virginiana</i>	10	10				y		y	
Maple,Amur	<i>Acer ginnala</i>	15	15				y		y	"Flame"
Maple, Chalk (Whitebark)	<i>Acer leucoderme</i>	25	25	y			y		y	Soil needs to be well drained
Maple, Fernleaf	<i>Acer japonica f. aconitifolium</i>	20	20						y	
Maple, Hedge	<i>Acer campestre</i>	25	25				y		y	"Pulverulentum", "Queen Elizabeth", "Royal Ruby"
Maple, Japanese	<i>Acer palmatum</i>	10	15				y		y	
Maple, Paperbark	<i>Acer griseum</i>	15	20						y	
Maple, Purple blow	<i>Acer truncatum</i>	20	20	y			y		y	"Norwegian Sunset'M"
Maple, Southern Sugar	<i>Acer barbatum</i>	20	20						y	No dry or compact soil, shallow roots
Maple, Trident	<i>Acer buergeranum</i>	20	25	y	y		y		y	"Mino Yatabusa", "Naputo Kaede", "Street Wise®",
Mimosa	<i>Albizia julibrissin</i>	25	20						y	Needs Sun; "Charlotte", "Tryon"
Oak, Georgia	<i>Quercus Georgiana</i>	15	15				y		y	Needs Sun
Oak, Henry tanbark	<i>Lithocarpus henryi</i>	15	25				y		y	
Oak, Japanese Blue	<i>Quercus glauca</i>	10	20				y		y	
Olive, Wild*	<i>Osmanthus fortunei</i>	10	15						y	
Peach, Corinthian cultivars	<i>Prunus persica Corinthian</i>	10	20				y		y	"Corinthian Mauve", "Corinthian Rose", "Corinthian White", "Pillar"
Persimmon, Japanese	<i>Diospyros khaki</i>	10	10						y	
Pine, Dwarf Loblolly*	<i>Pinus taeda</i>	10	20						y	"Dixie", "Nana"
Pine, Swiss Mountain*	<i>Pinusmugo</i>	15	25				y		y	"Gallica"

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Pine, Virginia*	<i>Pinus virginiana</i>	10	15						y	
Plum, Blieriana	<i>Prunus x bileriana</i>	15	15				y		y	Needs sun and well-drained soil
Plum, Chickasaw	<i>Prunus augustifolia</i>	15	15				y		y	
Plum, Purple Leaf	<i>Prunus cerasifera</i>	15	15				y		y	Needs sun and well-drained soil; "Atropurea"
Redbay*	<i>Persea borbonia</i>	10	15						y	
Redbud, California	<i>Cercis californica</i>	10	10						y	
Redbud, Chinese	<i>Cercis chinensis</i>	10	10						y	"Alba", "Avondale", "Nana", "Shipobana"
Redbud, Eastern	<i>Cercis canadensis</i>	25	20				y		y	Moist soil but good drainage; "Appalachian Red", "Flame", "Forest Pansy", "Pinkbud", "Royal White", "Silver Cloud", "Tennessee Pink", "Winthers Pink Charm"
Redbud, Mediterranean	<i>Cercis silicuastrum</i>	10	15						y	
Redbud, Mexican	<i>Cercis Canadensis spp mexicana</i>	10	15						y	
Redbud, Oklahoma	<i>Cercis canadensis spp retisus</i>	15	20				y		y	
Redbud, Texas	<i>Cercis canadensis spp texensis</i>	15	15				y		y	"Texas White"
Rhamnella	<i>Rhamnella franguloides</i>	15	20						y	
Sapphireberry	<i>Symplocos paniculata</i>	10	15						y	
Serviceberry, Allegheny	<i>Amelancier laevis</i>	15	15						y	"Snowcloud"

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Serviceberry, Apple	<i>Amelanchier x grandiflora</i>	15	20				y		y	Partial shade recommended, tree-trained, multi-stem; "Autumn Brilliance", "Autumn Sunset", "Ballerina", "Cumulus", "Princess Diana", "Prince Charles", "Prince William", "Robin Hill"
Serviceberry, Downy	<i>Amelanchier arborea</i>	10	15				y		y	Tree-trained only, multi-stem
Seven-son Flower	<i>Heptacodium miconioides</i>	10	10						y	
Silverbell, Carolina	<i>Halesia tetraptera</i>	15	20						y	Needs well-drained soil
Silverbell, Two-winged	<i>Halesia diptera</i>	15	15				y		y	
Smoketree	<i>Cotinus coggygria</i>	10	10				y		y	
Snowbell, Japanese	<i>Styrax japonicus</i>	20	20						y	Best in partial shade; "Crystal", "Emerald Pagoda", "Fargesii", "Issai", "Snowfall"
Sourwood	<i>Oxydendron aboreum</i>	10	20				y		y	
Styrax, Fragrant	<i>Styrax obassia</i>	15	20						y	
Sweetheart Tree, Korean	<i>Euscaphis japonica</i>	10	20						y	
Willow, Corkscrew	<i>Salix matsudana var. tortuosa</i>	15	20						y	
*Evergreen trees										

Any plant shown on the Shrub list maintained by the North Carolina State University Department of Horticulture Science's website, located at:

<https://content.ces.ncsu.edu/shrubs-1-4-for-north-carolina-landscapes>

<https://content.ces.ncsu.edu/shrubs-4-8-for-north-carolina-landscapes>

The plant must be hardy for Zone 8, not be prone to disease or pests, or be specifically mentioned as intolerant of heat or drought.

The minimum range of the width and height for each plant will be used for setting the dimensions of the plant at maturity and for fulfilling the