

<b>Group A – Large Trees (over 50 ft in height)</b> <u>SCIENTIFIC NAME</u> <u>COMMON NAME</u>	PLANT CHARACTERISTICS																PLANT USES
	Native	Drought Tolerant	Growth Rate	Plant Type*	Height (ft.)	Spread (ft.)	Form	Light Requirements	Soil Requirements	Salt Tolerance	Pests	Street & Road Trees	Properly Perimeter Buffer	Parking Lot Interior	Screening	Sight Triangle**	COMMENTS
<u>Acer negundo</u> Boxelder	Yes	Yes	Fast	D	60 to 75	25 to 30	Oval, upright	Full sun	Moist; rich	Poor	Borers; mites	Yes	Yes	Yes	No	No	Excellent tree but requires room to develop; used as a specimen tree for its bright fall color needs a wet location
<u>Acer rubrum</u> Red maple	Yes	No	Fast	D	60 to 75	25 to 35	Oval, upright	Full sun	Moist; rich	Poor	Borers; mites	Yes	Yes	Yes	No	No	Excellent tree but requires room to develop; used as a Specimen tree for its bright fall color; needs a wet location
<u>Betula nigra</u> River birch	Yes	No	Fast	D	40 to 50	25 to 35	Upright pyramidal	Full sun	Acid	Mod.	None serious	Yes	Yes	Yes	Yes	No	Prefers a damp spot, but does fine in a dry location; fall color
<u>Carya illinoensis</u> Pecan	No	No	Mod.	D	70 to 100	50 to 70	Compact oval; irregular	Full sun	Fertile; well-drained	Poor	Tent caterpillars; heart rot	Yes	Yes	No	No	No	A large tree with ascending, symmetrical crown; excellent energy-saving shade tree
<u>Carya glabra megacarpa</u> Pignut hickory	Yes	Yes	Mod.	D	50 to 65	30 to 40	Irregular	Full sun	Well - drained	Poor	None serious	No	Yes	No	No	Yes	Shade; specimen; has wildlife value, not good in parking lots due to seasonal fruit fall
<u>Celtis laevigata</u> Hackberry/sugarberry	Yes	No	Fast	D	50 to 70	50 to 60	Rounded	Full sun to shade	Moist	Mod.	None serious	Yes	Yes	No	No	No	Best used in larger areas
<u>Gordonia lasianthus</u> Loblolly bay	Yes	No	Mod.	E	35 to 60	10 to 15	Upright cylindrical head	Partial shade	Moist; rich acid	Poor	None serious	No	Yes	No	No	No	Used as a specimen and accent tree with blossoms; needs wet area; nemotodes a problem on dry sites
<u>Liquidambar styraciflua</u> Sweet gum	Yes	No	Mod.	D	60 to 75	35 to 50	Pyramidal; irregular & upright	Full sun to partial shade	Moist; rich	Slight	Borers	Yes	Yes	Yes	No	No	Excellent native tree for large areas; extensive root system needs room to grow; has spiny fruit
<u>Liriodendron tulipifera</u> Tulip tree	Yes	No	Mod.	D	80 to 100	35 to 50	Pyramidal; spreading	Full sun to partial shade	Moist; well-drained; acid	Poor	Scales; aphids	Yes	Yes	Yes	No	No	Flowers are cup-shaped resembling tulips; massive form makes this a desirable specimen
<u>Magnolia grandiflora</u> Southern magnolia	Yes	No	Mod.	E	30 to 80	30 to 40	Oval to rounded; upright & often compact	Full sun to partial shade	Fertile	Mod.	Algal leaf spots; scales	Yes	Yes	Yes	No	No	Handsome evergreen foliage; requires room to develop; specimem & framing tree, very showy flowers and fruit, leaf drop may be messy

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	Native	Drought Tolerant	Growth Rate	Plant Type*	Height (ft.)	Spread (ft.)	Form	Light Requirements	Soil Requirements	Salt Tolerance	Pests	Street & Road Trees	Property Perimeter Buffer	Parking Lot Interior	Screening	Sight Triangle**	COMMENTS
<u>Magnolia virginiana</u> Sweet bay magnolia	Yes	No	Mod.	E	40 to 60	15 to 25	Upright; slender	Full sun to shade	Mildly fertile; moist; acid	Poor	Scales	No	Yes	Yes	No	Yes	Used as a specimen, shade or framing tree, low drought tolerance
<u>Morus rubra</u> Red mulberry	Yes	No	Fast	D	40 to 50	20 to 30	Spreading	Full sun	Wide variety of soils	Poor	None serious	Yes	Yes	No	Yes	No	Frequently planted as a wildlife or domestic animal food source; fruit fall is a litter problem
<u>Persea borbonia</u> Redbay	Yes	Yes	Slow	E	35 to 50	20 to 30	Spreading	Full sun to partial shade	Well-drained	High	None serious	Yes	Yes	No	Yes	No	Good for wildlife; needs a well-drained soil
<u>Pinus elliotii</u> Slash pine	Yes	Yes	Fast	E	75 to 100	35 to 50	Upright	Full sun	Wide variety of soils	Poor	Beetles; borers; rust	Yes	Yes	Yes	Yes	Yes	Used as a framing, specimen and shade tree; often used to prevent erosion
<u>Pinus palustris</u> Longleaf pine	Yes	No	Mod.	E	60 to 80	35 to 50	Upright	Full sun	Wide variety of soils	Poor	Beetles; borers; rust	Yes	Yes	Yes	Yes	Yes	Used as a framing, specimen and shade tree
<u>Platanus occidentalis</u> American sycamore	Yes	No	Fast	D	75 to 90	50 to 70	Pyramidal	Full sun to partial shade	Wide variety of soils	Mod.	Canker; lace bugs	No	Yes	Yes	Yes	No	Fast growing shade tree; straight trunk, short branches and good crown; sheds its bark
<u>Quercus laurifolia</u> Laurel oak	Yes	No	Fast	E	60 to 70	40 to 60	Oval to rounded	Full sun to partial shade	Wide variety of soils	Poor	Mushroom root rot	Yes	Yes	Yes	No	No	Used as a fast growing shade tree; drops a lot of branches messy
<u>Quercus shumardii</u> Shumard oak	Yes	Yes	Mod.	D	75 to 100	25 to 35	Open; wide spreading	Full sun	Rich; well-drained	Poor	None serious	Yes	Yes	Yes	Yes	Yes	Good fall color; interesting leaf
<u>Quercus virginiana</u> Live oak	Yes	No	Mod.	E	60 to 80	60 to 80	Wide spreading; horizontal branches	Full sun to partial shade	Wide variety of soils	Poor	Mushroom root rot	Yes	Yes	Yes	No	No	Used as a shade tree; good wildlife food source; doesn't tolerate wetness
<u>Sabal palmetto</u> Sabal palm	Yes	Yes	Slow	E	25 to 50	10 to 15	Tall; nearly straight trunk	Full sun to shade	Wide variety of soils	High	None serious	Yes	Yes	Yes	No	Yes	Used as a specimen and framing tree; Florida's state tree

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<u>Taxodium distichum</u> Bald cypress	Yes	Yes	Mod.	D	60 to 80	25 to 35	Open; spreading crown, sometimes pyramidal on dry site.	Full sun	Wide variety of soils	Mod.	None serious	Yes	Yes	No	No	No	Used as a specimen tree; intolerant of reflected heat
<u>Ulmus alata</u> Winged elm	Yes	Yes	Fast	D	45 to 70	30 to 40	Rounded; short, straight branches	Full sun	Dry; well-drained	Poor	None serious	Yes	Yes	Yes	No	No	Used as a specimen and shade tree; distinctive winged bark; fall color
<u>Ulmus americana</u> Florida elm	Yes	Yes	Mod.	D	40 to 50	35 to 50	Spreading open crown; weeping	Full sun	Wide variety of soils	Poor	None serious	Yes	Yes	Yes	No	No	Used as a specimen and framing tree; resistant to Dutch elm disease
<u>Washingtonia robusta</u> Washington palm	No	Yes	Mod.	E	60 to 90	10 to 15	Straight; single-trunked	Full sun to partial shade	Wide variety of soil	Mod.	Scales	No	Yes	No	No	Yes	Grows very tall, fairly quickly; use in background with shorter trees in front; heavily spined

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<b>Group B -</b> <b>Medium Trees</b> <b>(10-50 ft. in</b> <b>height)</b> <b>SCIENTIFIC</b> <b>NAME</b> <b>COMMON</b> <b>NAME</b>	PLANT CHARACTERISTICS															PLANT USES	
	Native	Drought Tolerant	Growth Rate	Plant Type*	Height (ft.)	Spread (ft.)	Form	Light Requirements	Soil Requirements	Salt Tolerance	Pests	Street & Road Trees	Properly Perimeter Buffer	Parking Lot Interior Design	Screening	Sight Triangle**	COMMENTS
<u>Acoelorrhaphe wrightii</u> Paurotis palm	Yes	Yes	Slow	E	15 to 20	20 to 25	Multi trunked; clumping	Full sun to partial shade	Wide variety of soil	Mod.	None serious	Yes	Yes	Yes	Yes	Yes	Used as a specimen and border tree at corners of buildings
<u>Butia capitata</u> Pindo palm	No	Yes	Slow	E	15 to 25	10 to 15	Short; single trunked; curving leaves	Full sun	Fertile; well-drained	Mod.	Palm leaf skeletonizer	Yes	No	Yes	Yes	No	Used as a specimen plant or in groups; nice blue foliage color; very cold tolerant
<u>Cercis canadensis</u> Redbud	Yes	Yes	Fast	D	20 to 30	15 to 25	Rounded	Full sun to shade	Acid; rich; well-drained	Poor	Aphids; borers; root rot	Yes	Yes	Yes	No	No	Used as a framing and shade tree; grown in borders for color; dark pink flowers before leafing out
<u>Cornus florida</u> Flowering dogwood	Yes	No	Slow	D	20 to 30	25 to 30	Rounded; spreading	Full sun to partial shade	Fertile; well-drained	Poor	Borers; root rot; thripes; powdery mildew	Yes	Yes	Yes	Yes	No	Specimen/ornamental tree; spectacular when flowering; marginal for Volusia County
<u>Ilex cassine</u> Dahoon holly	Yes	No	Mod.	E	20 to 30	8 to 12	Irregular; open	Full sun to partial shade	Moist; rich	Mod.	None serious	No	Yes	No	Yes	No	A small tree growing in wet location with conspicuous red fruits in winter
<u>Ilex vomitoria</u> Yaupon holly (upright or weeping forms)	Yes	Yes	Mod.	E	25 to 30	10 to 15	Rounded	Full sun to partial shade	Well - drained	High	None serious	No	Yes	Yes	Yes	Yes	Dark red berries in late fall; good wildlife value; lovely specimen tree
<u>Ilex opaca</u> American holly	Yes	Yes	Slow	E	35 to 50	15 to 25	Upright; symmetrical	Full sun to partial shade	Acid; fertile; well-drained	Mod.	Leaf miners; scales	Yes	Yes	Yes	Yes	No	Used as a specimen tree or as a large screen; good wildlife value
<u>Juniperus silicicola</u> Southern red cedar	Yes	Yes	Fast	E	30 to 45	20 to 30	Columnar to compact	Full sun	Wide variety of soils	Mod.	Juniper blight; cedar apple rust; root rot	Yes	Yes	No	Yes	No	Used as a specimen tree and a screen between conflicting land uses; best used in large area; wildlife value

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<b>Group B -</b> <b>Medium Trees</b> <b>(10-50 ft. in</b> <b>height)</b> <u>SCIENTIFIC</u> <u>NAME</u> <b>COMMON</b> <b>NAME</b>	PLANT CHARACTERISTICS															PLANT USES	
	Native	Drought Tolerant	Growth Rate	Plant Type*	Height (ft.)	Spread (ft.)	Form	Light Requirements	Soil Requirements	Salt Tolerance	Pests	Street & Road Trees	Properly Perimeter Buffer	Parking Lot Interior Design	Screening	Sight Triangle**	COMMENTS
<u>Lagerstroemia indica</u> Crape-myrtle	No	Yes	Fast	D	10 to 30	15 to 25	Upright; rounded	Full sun	Wide variety of soils	Slight	Aphids; powdery mildew; sooty mold	Yes	Yes	Yes	Yes	No	Multi-stemmed tree with showy flowers in summer; fast growth; very drought tolerant
<u>Ligustrum lucidum</u> Glossy privet	No	No	Mod.	E	25 to 40	25 to 35	Compact; dense head	Full sun to partial shade	Wide variety of soils	Poor	Scales; white flies; sooty mold	Yes	Yes	Yes	Yes	Yes	Blue-black berries in fall & white flowers in spring
<u>Myrica cerifera</u> Wax myrtle	Yes	Yes	Fast	E	15 to 25	20 to 25	Irregular; spreading; clumping	Full sun to partial shade	Wide variety of soils	Mod.	Caterpillar; canker	Yes	Yes	Yes	Yes	No	Used as a specimen tree; screen or hedge plant; short lived (25 years)
<u>Phoenix reclinata</u> Senegal date palm	No	No	Mod.	E	25 to 30	20 to 25	Multi-trunked; clumping curving trunks with dense crowns	Full sun to partial shade	Wide variety of soils	Mod.	Leafspot; palm leaf skeltonizer	No	Yes	Yes	No	No	Used as a specimen tree or in groups; heavily armed
<u>Prunus angustifolia</u> Chickasaw plum	Yes	Yes	Mod.	D	15 to 25	10 to 20	Spreading	Full sun to partial shade	Wide variety of soils	Poor	None serious	No	Yes	No	Yes	Yes	White flowers in early spring; wildlife value; creates a thicket
<u>Prunus caroliniana</u> Cherry laurel	Yes	Yes	Fast	E	25 to 40	15 to 25	Upright; spreading	Full sun to shade	Wide variety of soils	Slight	Caterpillar; stem cankers; mites	Yes	Yes	Yes	No	No	Often used as a pruned hedge, framing and shade tree; leaves are poisonous; produces a lot of seedlings
<u>Quercus virginiana</u> <u>geminata</u> Sand live oak	Yes	Yes	Mod.	D	20 to 30	20 to 25	Rounded yet often irregular	Full sun to partial shade	Well-drained	High	None serious	Yes	Yes	Yes	Yes	Yes	Native; good seaside tree; wildlife value

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<b>Group C – Large Shrubs (10-30 ft in height)</b> <u>SCIENTIFIC NAME</u> <u>COMMON NAME</u>	PLANT CHARACTERISTICS															PLANT USES	
	Native	Drought Tolerant	Growth Rate	Plant Type*	Height (ft.)	Spread (ft.)	Form	Light Requirements	Soil Requirements	Salt Tolerance	Pests	Density	Properly Perimeter Buffer	Parking Lot Interior Design	Screening	Sight Triangle**	COMMENTS
<u>Ilex cornuta</u> Chinese holly	No	Yes	Mod.	E	12 to 15	6 to 10	Rounded	Full sun to partial shade	Well - drained; slightly acid	Poor	Scales	Dense	Yes	Yes	Yes	No	Shrubby in selected cultivars; can become tree-like with age
<u>Ligustrum japonicum</u> Japanese privet	No	No	Fast	E	10 to 15	15 to 20	Upright; spreading	Full sun to partial shade	Wide variety of soils	Poor	Mushroom root rot; leaf spot	Dense	Yes	No	Yes	No	Used as hedge, foundation and enclosure plant; coarse texture; blue-black berries in fall and white flowers in spring
<u>Myrcianthes fragrans</u> Simpson stopper	Yes	Yes	Fast	E	5 to 20	3 to 15	Upright	Full sun	Wide variety of soils	Mod.	Scales	Dense	Yes	No	Yes	No	Bright white fragrant flowers during spring and early summer
<u>Nerium oleander</u> Oleander	No	Yes	Fast	E	10 to 20	10 to 15	Upright	Full sun	Wide variety of soils	Mod.	Caterpillars; mushroom root rot; scales	Very dense	Yes	No	Yes	No	Used as a large shrub and screen plant; good seashore plant; varied bloom in warm months; all parts of oleander are poisonous
<u>Podocarpus macrophyllus</u> Yew podocarpus	No	Yes	Slow	E	30 to 40	15 to 20	Compact	Full sun to shade	Wide variety of soils	Slight	Nematodes; mushroom root rot	Very dense	Yes	Yes	Yes	Yes	Used as a hedge border; prune regularly to keep compact; green fruit with no seasonal change
<u>Viburnum obovatum</u> Walters viburnum	Yes	Yes	Fast	E	10 to 20	6 to 12	Spreading	Full sun to partial shade	Well - drained	Poor	Aphids; mites; sooty mold; stem cankers; white flies	Dense	Yes	No	Yes	No	Used as a screen, foundation plant and hedge; prune regularly; to keep size and shape controlled; white flowers in spring
<u>Viburnum odoratissimum</u> Sweet viburnum	No	Yes	Fast	E	25 to 30	15 to 20	Spreading	Full sun to partial shade	Well - drained	Poor	Aphids; mites; sooty mold; stem cankers; white flies	Dense	Yes	No	Yes	No	Used as a screen, foundation plant and hedge; prune regularly; to keep size and shape controlled; white flowers in spring

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<b>Group D – Small to Medium Shrubs (2-10 ft. in height)</b> <u>SCIENTIFIC NAME</u> <u>COMMON NAME</u>	PLANT CHARACTERISTICS																PLANT USES
	Native	Drought Tolerant	Growth Rate	Plant Type*	Height (ft.)	Spread (ft.)	Form	Light Requirements	Soil Requirements	Salt Tolerance	Pests	Density	Properly Perimeter Buffer	Parking Lot Interior Design	Screening	Sight Triangle**	COMMENTS
<u>Buxus microphylla</u> Japanese boxwood	No	No	Slow	E	3 to 5	3 to 4	Rounded	Shade to partial sun	Acid; fertile; well-drained	Poor	Leaf miner; mites; nematodes	Very dense	No	Yes	Yes	Yes	Slow growing; dwarf shrub
<u>Callicarpa americana</u> Beautyberry	Yes	Yes	Mod.	D	4 to 8	4 to 6	Spreading	Full sun to partial shade	Well-drained	Poor	Scales	Open	No	Yes	No	No	Has showy purple fruit in late summer
<u>Camellia</u> spp. Camellia	No	No	Slow	E	6 to 10	3 to 5	Upright or spreading	Shade to partial shade	Acid; fertile; well-drained	Poor	Aphids; scales	Very dense	Yes	No	Yes	No	Used as a border specimen and foundation plant; blooms in winter
<u>Carissa grandiflora</u> Natal plum	No	Yes	Mod.	E	4 to 8	4 to 6	Compact; globose	Full sun	Well-drained	High	Scales	Dense	Yes	No	Yes	No	Used as a seashore plant; edible fruit ripens throughout year; spiny
<u>Ilex cornuta</u> ‘Dwarf Burfordii’ Dwarf Burford holly	No	No	Mod.	E	5 to 6	3 to 5	Rounded	Full sun to partial shade	Acid; well-drained	Mod.	Scales	Dense	Yes	Yes	Yes	No	Used as a foundation, border and hedge plant; red berries if fruit matures; spiny
<u>Ilex vomitoria</u> ‘Schillings’ Dwarf yaupon holly	Yes	Yes	Fast	E	4 to 6	4 to 5	Compact; spreading	Full sun to partial shade	Well - drained	Good	Leaf miners	Dense	No	Yes	No	No	As a clipped hedge, cannot be excelled
<u>Juniperus</u> spp. Juniper	No	Yes	Fast	E	2 to 10	variable	Variable depending on cultivar	Full sun	Fertile; well-drained	Mod.	Juniper blight; mites	Very dense	Yes	Yes	Yes	Yes	Very drought tolerant, but mites can be devastating
<u>Leucophyllum frutescens</u> Texas sage	No	Yes	Mod.	E	4 to 6	3 to 4	Spreading	Full sun	Well - drained; sandy	Mod.	None serious	Dense	Yes	Yes	Yes	No	Purple flowers in summer; good for hot, dry locations; good seaside plant
<u>Loropetalum chinensis</u> Loropetalum	No	No	Fast	E	6 to 10	8 to 10	Variable depending on cultivar	Full sun to partial shade	Well-drained	Poor	None serious	Dense	Yes	Yes	Yes	No	Colorful leaves and flowers; needs dry site; many cultivars
<u>Raphiolepis indica</u> Indian hawthorne	No	Yes	Slow	E	4 to 6	4 to 6	Compact	Full sun	Well-drained	Mod.	Scales; fire blight; leaf spot	Dense	Yes	No	Yes	No	Used as a screen, foundation plant and tall hedge; white flowers in spring; plant in south or east location to reduce leaf spot problem
<u>Rhapidophyllum hystrix</u> Needle palm	Yes	Yes	Slow	E	3 to 8	4 to 8	Compact	Shade to partial sun	Poorly-drained	Mod.	None serious	Dense	Yes	Yes	Yes	No	Used as a screen, foundation plant, and tall hedge

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Group D – Small to Medium Shrubs (2-10 ft. in height) <u>SCIENTIFIC NAME</u> COMMON NAME	PLANT CHARACTERISTICS																PLANT USES
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<u>Serenoa repens</u> Saw palmetto	Yes	Yes	Mod.	E	3 to 10	3 to 10	Compact	Full sun to partial shade	Wide variety of soils	High	None serious	Dense	Yes	Yes	Yes	No	Used as a screen, foundation plant and tall hedge
<u>Viburnum suspensum</u> Sandankwa viburnum	No	Yes	Mod.	E	4 to 6	3 to 4	Spreading	Full sun to shade	Well-drained	Poor	Aphids; mites; nematodes white flies	Dense	Yes	Yes	Yes	No	Used as a foundation, low hedge and border plant; prune regularly; white flowers in spring and winter
<u>Zamia pumila</u> Coontie	Yes	Yes	Slow	E	2 to 3	2 to 4	Spreading	Full sun to partial shade	Well-drained	Good	Scales	Open	No	Yes	No	Yes	Slow growing; cold and drought tolerant

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