

# The Athens-Clarke County Tree Species List

The **Athens-Clarke County Tree Species List** is intended to support the development code, site planning and design activities for tree conservation and establishment, and tree maintenance planning and decision-making. In the list trees are arranged alphabetically by the tree's common name with the "genus" listed first. For example, red maple is listed as "Maple, Red" (maple is the genus name). The Latin name is also listed for more definitive species identification. In some cases, the commonly planted variety or cultivar of the species has also been included apart from the species.

## Key to Symbols and Tree Species Characteristic Descriptions

TREE CHARACTERISTIC	DESCRIPTION and ENTRY CHOICES
Species Common Name	Entered with genus common name first, then species, then cultivar if applicable. For some species an alternate common name is included in parentheses.
Latin Name	Genus, species, and variety or cultivar; always italicized or underlined.
<b>CANOPY AREA FOR DEVELOPMENT CODE</b>	
Square Feet of Canopy	The total area projection of the crown onto the ground in square feet as typically achieved in urban situations with less than optimal growing conditions.
Parking Lot Canopy Tree	<b>Trees approved for planting in parking lots.</b> <u>1 = trees that will project significant shade, intercept enough water, substantially filter out pollutants, and survive the conditions within a parking area to the extent they could be considered a "canopy" tree.</u> <u>2 = the same as 1, except these trees are ONLY appropriate for large, expanded tree islands or landscape strips, swales, or moist soil conditions with plenty of rooting space.</u>
Canopy Size Category	Very Small - 150 square feet with a 15 foot crown diameter <i>The minimum open soil surface area is 25 sq. ft.</i> Small – 400 square feet with a 25 foot crown diameter <i>The minimum open soil surface area is 100 sq. ft.</i> Medium – 900 square feet with a 35 foot crown diameter <i>The minimum open soil surface area is 225 sq. ft.</i> Large – 1,600 square feet with a 45 foot crown diameter <i>The minimum open soil surface area is 400 sq. ft.</i>
<b>RECOMMENDED USES</b>	
Level of Use	<b>The level of use that the tree should receive.</b> P = Plant New Trees and Conserve Existing Trees C = Conserve Existing Trees L = For Limited Planting or Conservation Only N = Do Not Plant
Large Landscape Areas Road Frontages – Street Road Frontages – Yard Parking Lots Plazas and Downtown Settings Riparian Zones and Drainage Areas Utility Corridors	<b>Recommendations on the site situation where the tree may be planted and/or conserved; locations where the tree would adapt well.</b>  O = tree to avoid; not suitable Blank = may or may not be suitable x = good choice XX = excellent choice

TREE CHARACTERISTIC	DESCRIPTION and ENTRY CHOICES
<b>PHYSICAL CHARACTERISTICS</b>	
<b>Height Class in Urban Conditions</b>	<b>Height class (ground to tip of leader or tallest branch) of a mature tree commonly achieved in urban situations with less than optimal growing conditions.</b> S = Small: 15-25 feet M = Medium: 25-40 feet L = Large: 40 feet and taller
<b>Crown Class in Urban Conditions</b>	<b>The width of the crown (at its widest point) commonly achieved in urban situations with less than optimal growing conditions.</b> VS = Very Small (150 square feet with a 15 foot crown diameter) S = Small (400 square feet with a 25 foot crown diameter) M = Medium (900 square feet with a 35 foot crown diameter) L = Large (1,600 square feet with a 45 foot crown diameter)
<b>Mature Crown Form</b>	<b>General shape of the tree crown (leaves and branches) when fully leafed out.</b> Irregular Multi-Stemmed Oval (Columnar) Pyramidal Rounded Spreading Upright (Vase)
<b>Typical Range of Mature Tree Height</b>	<b>Typical range of height of tree in feet from ground to bud at tip of leader or tallest branch under various conditions.</b>
<b>Typical Range of Mature Crown Width</b>	<b>Typical range of spread of branches in feet at the widest diameter across the crown under various conditions.</b>
<b>Leaf Type</b>	<b>Persistence and type of leaf on the tree. Deciduous trees lose their leaves in the fall.</b> DB = Deciduous Broadleaf DC = Deciduous Conifer EB = Evergreen Broadleaf EC = Evergreen Conifer
<b>Leaf Texture</b>	<b>Relative size and appearance of leaves.</b> F = Fine M = Medium C = Coarse
<b>Fall Leaf Color</b>	<b>The typical color of the tree's fall foliage.</b> EV = evergreen BR = bronze or brown MA = maroon MU = multi-colored: maroon, red, orange, yellow OR = orange RE = red YE = yellow I = insignificant color change

TREE CHARACTERISTIC	DESCRIPTION and ENTRY CHOICES
<b>PHYSICAL CHARACTERISTICS (continued)</b>	
<b>Flower Color</b>	<b>For trees with showy flowers, indicates the typical flower color.</b>
	B = blue
	L = purple
	M = multiple colors: white, pink, purple, red, or others
	P = pink
	R = red
	W = white
	Y = yellow
<b>Flowering Time</b>	I = insignificant flowers: small with an unremarkable color
	<b>For trees with showy flowers, the general season of blooming for the species.</b>
<b>Wildlife Value</b>	<b>Indicates with an "X" if the tree produces flowers (nectar) or fruits that are consumed by insects, birds, or mammals.</b>
<b>Excessive Litter</b>	<b>Indicates with an "X" if the tree produces large or hazardous leaves, fruit, or other litter.</b>
<b>ENVIRONMENTAL CHARACTERISTICS AND TOLERANCES</b>	
<b>Native Tree to Athens-Clarke Co.</b>	<b>Indicates whether or not the tree is found naturally growing in the Athens-Clarke County area.</b>
	Y = Yes
	N = No
<b>Growth Rate</b>	<b>Typical rate of growth under urban conditions.</b>
	S = Slow: 1/2 to 1-1/2 feet/year
	M = Moderate: 1-1/2 to 2-1/2 feet/year
	F = Fast: 2-1/2 to 3+ feet/year
<b>Average Life Span</b>	<b>The average life span (useful service life) of the species when growing under average urban conditions. A tree is at the end of its useful service life when its risk of failure becomes unacceptable and cannot be improved or when the tree is no longer an asset due to its appearance or condition.</b>
	S = Short: less than 25 years useful service life.
	M = Moderate: 25 to 40 years useful service life.
	L = Large: 50 years or greater useful service life.
<b>Net Effect on Air Quality</b>	<b>The net monetary effects in cents attributable to the species on air quality; listed as a benefit (positive) or cost (negative). Includes the species net effect on ozone, sulfur dioxide, nitrogen dioxide, particulate matter (PM10), and carbon monoxide.</b>
<b>Soil Moisture</b>	<b>The typical soil moisture conditions for the species in its native habitat.</b>
	H = Hydric: wet and may be occasionally flooded for short periods
	M = Mesic: moist but moderately well- to well-drained
	X = Xeric: dry and very well-drained

TREE CHARACTERISTIC	DESCRIPTION and ENTRY CHOICES
<b>ENVIRONMENTAL CHARACTERISTICS AND TOLERANCES (continued)</b>	
<b>Drought Tolerance</b>	<p><b>Tolerance of the species to infrequent rain, low soil moisture, full sun, and high temperatures.</b></p> <p>Low = not tolerant to drought conditions</p> <p>Moderate = tolerant to mild drought conditions; moderately tolerant to severe drought conditions</p> <p>High = very tolerant to mild to severe and prolonged drought conditions</p>
<b>Preferred Soil pH</b>	<p><b>Relative soil acidity or alkalinity preferred by the species. In many cases, a range of pH preference is given if it was available. In other cases, a general level is given. A pH of 7.0 is neutral, a pH of less than 7.0 is acidic, and a pH of greater than 7.0 is alkaline.</b></p> <p>ac = acidic (5.0 to 6.0)</p> <p>sl ac = slightly acidic (6.0 to 7.0)</p> <p>nu = neutral (7.0)</p> <p>sl al = sl alkaline (7.0 to 8.0)</p> <p>al = alkaline (8.0 to 8.5)</p> <p>n/a = no information available</p>
<b>Light Requirement</b>	<p><b>The amount of sunlight the species prefers or will tolerate. Trees that are typically found in the understory or are characteristic of late forest successional stages prefer shade or at least partial shade, while trees that typically form the overstory or are characteristic of early successional stages prefer full sun.</b></p> <p>FS = Full Sun</p> <p>PS = Partial Shade</p> <p>SH = Shade</p>
<b>Construction Tolerance/Limitations</b>	<p><b>The broad tolerance of the species in its home range to construction damage, and the limitations that constrain a species tolerance to damage.</b></p> <p>Tolerance</p> <p>P = Poor</p> <p>M = Moderate</p> <p>G = Good</p> <p>Limitations</p> <p>I = physical injury, wood compartmentalization and decay</p> <p>P = pest complications, including chronic and acute attacks</p> <p>S = soil conditions, including aeration and water availability</p> <p>C = limited climatic tolerances, including native range, hardiness, and micro-climate change</p> <p>A = all of the limitations described above</p>
<b>Urban Tolerant Tree</b>	<p><b>Based upon other characteristics and tolerances to urban conditions; an "X" indicates the species is suitable for planting under "tough" urban conditions.</b></p>

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SPECIES COMMON NAME	LATIN NAME	CANOPY AREA FOR DEVELOPMENT CODE		RECOMMENDED USES								PHYSICAL CHARACTERISTICS										ENVIRONMENTAL CHARACTERISTICS AND TOLERANCES														
		Square Feet of Canopy	Canopy Size Category	Level of Use	Large Landscape Areas	Road Frontages - Street	Road Frontages - Yard	Parking Lots	Plazas and Downtown Settings	Buffers	Riparian Zones and Drainage Areas	Utility Corridors	Height Class in Urban Conditions	Crown Class in Urban Conditions	Mature Crown Form	Typical Range of Mature Tree Height	Typical Range of Mature Crown Width	Leaf Type	Leaf Texture	Fall Leaf Color	Flower Color	Flowering Time	Wildlife Value	Excessive Litter	Native Tree to Athens-Clarke Co.	Growth Rate	Average Life Span	Net Effect on Air Quality	Soil Moisture	Drought Tolerance	Preferred Soil pH	Light Requirement	Construction Tolerance/Limitations	Urban Tolerant Tree		
Alder, Hazel (Tag)	<i>Alnus serrulata</i>	150	Very Small	P	XX					x	XX	x	S	VS	Multi-Stemmed	10-20	10-20	DB	M	YE	I				Y	F	S	n/a	W	M	acidic	FS	G/	X		
Arborvitae, Eastern (Northern Whitecedar)	<i>Thuja occidentalis</i>	400	Small	L	x	0	x	0		x		0	M	S	Pyramidal	25-40	10-15	EC	F	EV	I		X		N	S	M	n/a	M	M	ac-alk	FS	G/	X		
Arborvitae, Giant (Western Redcedar)	<i>Thuja plicata</i>	400	Small	L	x	0	x	0		XX		0	M	S	Pyramidal	50-75	15-20	EC	F	EV	I		X		N	M	M	n/a	H	M	ac-alk	FS	M/	X		
Ash, Green	<i>Fraxinus pennsylvanica</i>	1,600	Large	P	XX	x	XX		x		x		L	L	Rounded	60-100	40-50	DB	M	MU	I		X		Y	F	M	0.090	W	H	sl ac-sl alk	FS	G/			
Ash, White	<i>Fraxinus americana</i>	1,600	Large	P	XX	x	XX		x		x		L	L	Rounded	50-80	30-60	DB	M	MA	I		X		Y	M	M	0.100	M	L	sl ac-sl alk	FS	M/IS			
Baldcypress	<i>Taxodium distichum</i>	900	Medium	P	x		XX			XX	XX		L	M	Pyramidal	50-100	20-50	DC	F	BR	I		X		N	M	L	0.032	M	H	ac-sl alk	FS	G/	X		
Basswood, American (Linden)	<i>Tilia americana</i>	1,600	Large	C	x						x		M	L	Irregular	60-100	35-50	DB	C	YE	Y	Summer	X		Y	F	M	0.144	M	L	ac-alk	PS	P/A			
Beech, American	<i>Fagus grandifolia</i>	1,600	Large	P	XX					0	x		L	L	Oval	80-100	50-70	DB	M	YE	I		X		Y	S	L	0.160	M	L	acidic	FS	P/A			
Birch, River	<i>Betula nigra</i>	900	Medium	P	XX	x	XX	x	XX	XX	XX	0	M	M	Pyramidal	50-90	40-60	DB	F/M	YE	I				Y	F	M	0.117	M	L	acidic	PS	G/			
Birch, River 'Heritage'	<i>Betula nigra</i> 'Heritage'	900	Medium	P	XX	x	XX	x	XX	XX	XX	0	M	M	Pyramidal	50-90	40-60	DB	F/M	YE	I				Y	F	M	n/a	M	L	acidic	PS	n/a			
Blackgum (Tupelo)	<i>Nyssa sylvatica</i>	900	Medium	P	XX	x	XX				x		M	M	Oval	50-100	20-35	DB	M	RE	I		X		Y	S	M	-0.053	M	M	sl ac-sl alk	FS	G/	X		
Boxelder	<i>Acer negundo</i>	900	Medium	C	x						x	0	L	M	Rounded	50-75	40-50	DB	M	YE	I		X		Y	F	S	0.036	W	M	adapt	FS	G/			
Buckeye, Bottlebrush	<i>Aesculus parviflora</i>	150	Very Small	P								x	S	VS	Multi-Stemmed	15-20	10-15	DB	M	YE	W	Summer	X		N	M	S	n/a	M	L	ac-adapt	SH	n/a			
Buckeye, Painted	<i>Aesculus sylvatica</i>	150	Very Small	P	x						x	x	S	VS	Rounded	15-25	5-15	DB	M	YE	P/Y	Spring	X		Y	M	S	n/a	M	L	ac-adapt	SH	n/a			
Buckeye, Red	<i>Aesculus pavia</i>	150	Very Small	P								x	S	VS	Rounded	10-15	10-15	DB	M	YE	R	Spring	X		N	M	S	n/a	M	L	ac	PS	M/I			
Buckthorn, Carolina	<i>Rhamnus caroliniana</i>	900	Medium	P	x	x	x				x		M	M	Oval	30-40	10-30	DB	M	OR	I		X		Y	M	S	n/a	M	M	ac-alk	FS	M/IS			
Buckthorn, Common	<i>Rhamnus cathartica</i>	900	Medium	L								x	S	M	Rounded	20-25	20-25	DB	M	YE	I		X		N	M	S	n/a	M	H	adapt	FS	n/a	X		
Buttonbush, Common	<i>Cephalanthus occidentalis</i>	150	Very Small	P	x						x	x	S	VS	Multi-Stemmed	10-15	10-15	DB	M	YE	W	Late Summer	X		Y	M	S	n/a	W	L	n/a	FS	G/I			
Catalpa, Southern	<i>Catalpa bignonioides</i>	900	Medium	C	x	0		0			x		M	M	Rounded	30-40	30-40	DB	C	YE	W	Spring	X	X	Y	F	S	0.014	M	M	sl ac-sl alk	FS	G/			
Cedar, Deodar	<i>Cedrus deodara</i>	900	Medium	L	x								L	M	Pyramidal	40-100	40-100	EC	F	EV	I				N	M	L	-0.031	D	H	ac-sl alk	FS	g			
Cedar, Japanese	<i>Cryptomeria japonica</i>	900	Medium	L	x		x			x			L	M	Pyramidal	40-60	15-20	EC	F	EV	I				N	S	M	0.084	M	H	ac	FS	n/a	X		
Chastetree (Vitex)	<i>Vitex agnus-castus</i>	150	Very Small	P		x	x	x	x			x	S	VS	Multi-Stemmed	15-20	10-20	DB	M	I	B/L/W	Summer	X		N	M	S	n/a	D	H	ac-alk	FS	n/a	X		
Cherry, Black	<i>Prunus serotina</i>	900	Medium	C	x		x				x		L	M	Oval	50-90	15-50	DB	M	YE	W	Early Spring	X		Y	F	M	0.083	M	M	sl ac	FS	M/I			
Cherry, Carolina	<i>Prunus caroliniana</i>	900	Medium	C		0	x	0	0	XX	0		M	M	Oval	20-40	15-25	EB	M	EV	W	Spring	X		N	M	M	n/a	M	H	ac-sl alk	FS	G/	X		
Cherry, Japanese Flowering	<i>Prunus serrulata</i>	400	Small	L			x		x	XX	XX		S	S	Rounded	20-30	20-30	DB	M	OR	P	Spring			N	F	S	0.013	M	L	ac-alk	FS	n/a			
Cherry, Yoshino	<i>Prunus x yedoensis</i>	400	Small	L			XX		XX	XX	XX		S	S	Rounded	20-45	20-40	DB	M	YE	P/W	Spring	X		N	F	S	n/a	M	L	ac	FS	n/a			
Chestnut, American	<i>Castanea dentata</i>	1,600	Large	N	susceptible to chestnut blight								L	L		-	-	-	-																	
Chestnut, Chinese	<i>Castanea mollissima</i>	1,600	Large	P	x		x						L	L	Rounded	40-60	40-60	DB	M	BR	W	Summer	X		N	S	L	n/a	D	M	ac-sl alk	FS	n/a	X		
Chinaberry	<i>Melia azedarach</i>	900	Medium	N	invasive								M	M																						
Chinquapin, Allegheny	<i>Castanea pumila</i>	400	Small	N	susceptible to chestnut blight								S	S	Rounded	10-25	10-25	DB	M	BR	I				X		Y	S	S	n/a	D	H	n/a	FS	P/P	
Cottonwood, Eastern	<i>Populus deltoides</i>	1,600	Large	C	x					0	x		L	L	Pyramidal	50-100	20-75	DB	C	YE	I		X	X	Y	F	M	-0.708	M	M	sl ac-sl alk	FS	G/	X		
Crabapple, Japanese Flowering	<i>Malus floribunda</i>	400	Small	L		x	x		x	XX	XX		S	S	Rounded	15-25	15-25	DB	M	YE	P	Spring	X		N	M	S	n/a	M	L	sl ac-sl alk	FS	n/a			
Crabapple, Southern	<i>Malus angustifolia</i>	400	Small	C	x	x	x			x	XX		S	S	Spreading	20-25	10-20	DB	M	YE	P	Spring	X	X	Y	M	S	n/a	M	L	sl ac-sl alk	FS	M/ICP			
Crapemyrtle, Common	<i>Lagerstroemia indica</i>	150	Very Small	L			x	0	x	0	0	XX	S	VS	Multi-Stemmed	15-30	10-25	DB	F	RE	M	Summer			N	F	M	0.004	M	H	ac-sl alk	FS	n/a	X		
Cypress, Leyland	<i>Cupressocyparis leylandii</i>	400	Small	L	x	0	x	x		x		0	M	S	Pyramidal	50-60	20-30	EC	F	EV	I				N	F	M	0.053	M	M	ac-alk	FS	g			
Devil's Walking Stick	<i>Aralia spinosa</i>	150	Very Small	C		0	0	0	0	x	XX		S	VS												Y										
Devilwood	<i>Osmanthus americanus</i>	400	Small	C	x		x						S	S	Rounded	15-25	10-15	DB	M	YE	W	Spring	X		Y	M	M	n/a	M	M		PS	M/I			
Dogwood, Flowering	<i>Cornus florida</i>	400	Small	P	XX	XX	XX	0	0	XX	XX		S	S	Spreading	15-30	15-30	DB	M	RE	W	Spring	X		Y	M	M	0.021	M	L	ac-nu	PS	M/IP			
Dogwood, Flowering Pink	<i>Cornus florida var. rubra</i>	400	Small	P	XX	XX	XX	0	0	XX		x	S	S	Spreading	15-30	15-30	DB	M	RE	P	Spring	X		Y	M	M	n/a	M	L	n/a	PS	n/a			

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		Square Feet of Canopy	Canopy Size Category	Level of Use	Large Landscape Areas	Road Frontages - Street	Road Frontages - Yard	Parking Lots	Plazas and Downtown Settings	Buffers	Riparian Zones and Drainage Areas	Utility Corridors	Height Class in Urban Conditions	Crown Class in Urban Conditions	Mature Crown Form	Typical Range of Mature Tree Height	Typical Range of Mature Crown Width	Leaf Type	Leaf Texture	Fall Leaf Color	Flower Color	Flowering Time	Wildlife Value	Excessive Litter	Native Tree to Athens-Clarke Co.	Growth Rate	Average Life Span	Net Effect on Air Quality	Soil Moisture	Drought Tolerance	Preferred Soil pH	Light Requirement	Construction Tolerance/Limitations	Urban Tolerant Tree
Dogwood, Kousa	<i>Cornus kousa</i>	400	Small	P		x	x			x	x	S	S	Rounded	10-20	10-20	DB	M	RE	W	Spring	X		N	S	S	n/a	M	L	ac	PS	n/a		
Dogwood, Swamp	<i>Cornus stricta</i>	400	Small	C	x						x	S	S	Rounded	10-25	10-25	DB	M	RE	W	Spring	X		Y	S	S	n/a	W	L	n/a	PS	G/I		
Elm, American	<i>Ulmus americana</i>	1,600	Large	C	x		x				x	L	L	Upright	50-100	30-70	DB	M	YE	I		X		Y	M	M	0.143	M	H	sl ac-sl alk	FS	M/P		
Elm, American 'Princeton'	<i>Ulmus americana</i> 'Princeton'	1,600	Large	P	XX	x	XX				x	L	L	Upright	50-100	30-70	DB	M	YE	I	Spring	X		Y	M	M	0.143	M	H	sl ac-sl alk	FS	M/P	X	
Elm, Chinese (Lace Bark)*	<i>Ulmus parvifolia</i> *	900	Medium	L	0	XX	XX	XX	XX	0	0	M	M	Upright	40-60	30-50	DB	F/M	YE	I				N	F	M	0.058	M	H	sl ac-sl alk	FS	n/a	X	
Elm, Siberian	<i>Ulmus pumila</i>	900	Medium	N	pest susceptible; weed tree								L	M																				
Elm, Slippery	<i>Ulmus rubra</i>	1,600	Large	C	x	x	x				x	L	L	Upright	70-80	30-50	DB	M	YE	I		X		Y	F	M	0.086	M	M	sl ac-sl alk	FS	M/P		
Elm, Winged	<i>Ulmus alata</i>	1,600	Large	P	XX	XX	XX	XX		0	0	L	L	Upright	70-80	30-50	DB	F	YE	I				Y	M	M	0.034	M	H	sl ac-sl alk	FS	G/	X	
Flametree, Chinese (Bougainvillea)	<i>Koelreuteria bipinnata</i>	400	Small	P		x						M	S	Rounded	20-40	20-40	DB	M	YE	Y	Summer			N	M	M	n/a	M	H	sl ac-sl alk	FS	n/a	X	
Fringetree (Grancy Gray Beard)	<i>Chionanthus virginicus</i>	150	Very Small	P	x	x	x			x	x	S	VS	Oval	10-30	5-15	DB	M/C	YE	W	Spring	X		Y	M	S	n/a	M	L	acidic	PS	M/IS		
Fringetree, Chinese	<i>Chionanthus retusus</i>	150	Very Small	P		x	x			x	x	S	VS	Rounded	15-25	10-15	DB	M/C	YE	W	Spring	X		N	S	S	n/a	M	M	acidic	PS	n/a		
Ginkgo (Female)	<i>Ginkgo biloba</i>	1,600	Large	L	x	0	x	0	0	0		M	L	Pyramidal	50-75	30-60	DB	C	YE	I			X	N	S	L	0.108	M	H	sl ac	FS	g	X	
Ginkgo (Male)	<i>Ginkgo biloba</i>	1,600	Large	P	x	XX	XX	x	XX	0		M	L	Pyramidal	50-75	30-60	DB	C	YE	I				N	S	L	0.108	M	H	sl ac	FS	g	X	
Goldenraintree	<i>Koelreuteria paniculata</i>	400	Small	P		x	x	x	x			M	S	Rounded	20-40	20-40	DB	M	YE	Y	Summer			N	M	M	-0.087	M	H	sl ac-sl alk	FS	n/a		
Hackberry, Common	<i>Celtis occidentalis</i>	1,600	Large	C	x		x				x	L	L	Spreading	60-90	25-60	DB	F/M	YE	I		X		Y	M	M	0.060	M	H	sl ac-sl alk	FS	n/a	X	
Hackberry, Georgia	<i>Celtis tenuifolia</i>	1,600	Large	C	x		x				x	M	L	Spreading	25-35	25-35	DB	F/M	YE	I		X		Y	S	M	n/a	D	H	sl ac-sl alk	FS	M/IS		
Hawthorne, Washington	<i>Crataegus phaenopyrum</i>	400	Small	P		x	x		x		x	S	S	Rounded	10-30	5-25	DB	F	MU	W	Late Spring	X		N	S	S	0.017	M	M	sl ac-sl alk	FS	g		
Hemlock, Eastern	<i>Tsuga canadensis</i>	1,600	Large	C	x		XX	0	0	x	0	L	L	Pyramidal	50-100	30-50	EC	F	EV	I		X		N	S	L		M	M	sl ac-sl alk	PS			
Hickory, Bitternut	<i>Carya cordiformis</i>	1,600	Large	C	x	0	x	0	0			L	L	Oval	50-100	50-75	DB	M	YE	I		X		Y	F	L	0.069	M	L	acidic	FS	P/S		
Hickory, Mockernut	<i>Carya tomentosa</i>	1,600	Large	C	x	0	x	0	0			L	L	Oval	50-100	50-75	DB	M/C	YE	I		X	X	Y	S	L	0.059	D	H	sl ac	FS	MP/S		
Hickory, Pignut	<i>Carya glabra</i>	1,600	Large	C	x	0	x	0	0			L	L	Oval	50-100	50-75	DB	M	YE	I		X		Y	S	L	0.058	M	H	sl ac	FS	M/S		
Hickory, Sand	<i>Carya pallida</i>	1,600	Large	C	x	0	x	0	0			L	L	Oval	40-90	20-40	DB	M	YE	I		X		Y	S	M	n/a	D	H	sl ac	FS	M/		
Hickory, Shagbark	<i>Carya ovata</i>	1,600	Large	C	x	0	x	0	0			L	L	Oval	70-100	50-75	DB	M	YE	I		X		Y	S	L	0.064	M	M	sl ac	FS	P/S		
Hickory, Southern Shagbark	<i>Carya ovata</i> var. <i>australis</i>	1,600	Large	C	x	0	x	0	0			L	L	Oval	60-80	40-60	DB	M	YE	I		X		Y	S	L	n/a	M	M	sl ac	FS	n/a		
Holly, American	<i>Ilex opaca</i>	400	Small	P	x		XX	x		XX	0	M	S	Pyramidal	20-70	15-25	EB	M	EV	I		X		Y	S	L	0.013	M	H	acidic	PS	G/	X	
Holly, Deciduous (Possumhaw)	<i>Ilex decidua</i>	150	Very Small	C	x		x				x	S	VS	Rounded	10-20	10-20	DB	F	I	I		X		Y	M	S	n/a	W	H	ac-alk	PS	G/		
Holly, Fosters	<i>Ilex x attenuata</i> 'Fosteri'	150	Very Small	P			x	x	x	x		S	VS	Pyramidal	15-25	10-15	EB	F/M	EV	I		X		N	S	S	n/a	M	H	sl ac	FS	n/a	X	
Holly, Ornamental Variety	<i>Ilex</i> species	150	Very Small	L			x	x	x	x	x	S	VS	Rounded	10-20	10-15	EB	M	EV	I				N	S	S	n/a	M	H	ac	FS	n/a		
Holly, Savannah	<i>Ilex x attenuata</i> 'Savannah'	150	Very Small	P	x		x	x	x	x	0	M	VS	Pyramidal	30-45	10-15	EB	M	EV	I		X		N	M	S	n/a	M	H	ac-sl alk	FS	n/a		
Holly, Yaupon	<i>Ilex vomitoria</i>	150	Very Small	P		x	x	x	x		x	S	VS	Irregular	10-25	5-10	EB	F	EV	I		X		Y	S	S	n/a	D	H	ac-alk	FS	G/	X	
Honeylocust	<i>Gleditsia triacanthos</i>	900	Medium	C	x		x	0	0			L	M	Irregular	60-80	30-50	DB	F	YE	I				Y	F	S	0.009	M	H	sl ac-sl alk	FS	G/	X	
Hophornbeam, American	<i>Ostrya virginiana</i>	900	Medium	P	x		x	x			x	M	M	Oval	15-40	10-30	DB	F/M	YE	W	Summer	X		Y	S	M	0.032	M	H	ac-alk	SH	M/S	X	
Hornbeam, Am. (Ironwood, Blue Beech)	<i>Carpinus caroliniana</i>	900	Medium	P	XX	XX	XX	x	XX	XX	XX	M	M	Oval	20-35	15-30	DB	F/M	YE	I		X		Y	S	M	0.009	M	M	sl ac-sl alk	PS	M/SC		
Hornbeam, European	<i>Carpinus betulus</i>	900	Medium	P		XX	XX	XX	XX	x		M	M	Oval	40-60	35-40	DB	F/M	YE	I		X		N	S	M	0.037	M	H	ac-alk	PS	n/a	X	
Hornbeam, Japanese	<i>Carpinus japonica</i>	400	Small	L		x	x	x	x	x		M	S	Oval	20-30	20-30	DB	M	RE	I				N	S	M	n/a	M	M	adapt	PS	n/a		
Katsuratree	<i>Cercidiphyllum japonicum</i>	900	Medium	L	x		x					M	M	Spreading	40-60	35-60	DB	M	YE	I				N	F	L	n/a	M	L	ac-sl alk	FS	pm		
Locust, Black	<i>Robinia pseudacacia</i>	900	Medium	C	x			0	0		x	L	M	Spreading	40-90	20-40	DB	F	YE	W	Spring	X		Y	F	M	-0.123	M	H	sl ac-sl alk	FS	G/P	X	
Magnolia, Cucumber	<i>Magnolia acuminata</i>	1,600	Large	C	x		x	0			x	L	L	Upright	60-80	20-60	DB	C	YE	W	Spring	X		Y	F	M	n/a	M	L	acidic	PS	M/I		
Magnolia, Japanese (Saucer)	<i>Magnolia x soulangiana</i>	900	Medium	L			x	0			x	M	M	Upright	20-30	10-30	DB	C	YE	P	Late Winter			N	M	S	0.009	M	L	acidic	FS	n/a		

# Athens-Clarke County Tree Species List

SPECIES COMMON NAME	LATIN NAME	CANOPY AREA FOR DEVELOPMENT CODE		RECOMMENDED USES								PHYSICAL CHARACTERISTICS										ENVIRONMENTAL CHARACTERISTICS AND TOLERANCES													
		Square Feet of Canopy	Canopy Size Category	Level of Use	Large Landscape Areas	Road Frontages - Street	Road Frontages - Yard	Parking Lots	Plazas and Downtown Settings	Buffers	Riparian Zones and Drainage Areas	Utility Corridors	Height Class in Urban Conditions	Crown Class in Urban Conditions	Mature Crown Form	Typical Range of Mature Tree Height	Typical Range of Mature Crown Width	Leaf Type	Leaf Texture	Fall Leaf Color	Flower Color	Flowering Time	Wildlife Value	Excessive Litter	Native Tree to Athens-Clarke Co.	Growth Rate	Average Life Span	Net Effect on Air Quality	Soil Moisture	Drought Tolerance	Preferred Soil pH	Light Requirement	Construction Tolerance/Limitations	Urban Tolerant Tree	
Magnolia, Southern	<i>Magnolia grandiflora</i>	1,600	Large	P	XX		XX	0		XX	0	L	L	Pyramidal	80-100	30-50	EB	C	EV	W	Late Spring	X	X	Y	M	L	0.002	M	M	acidic	FS	M/I			
Magnolia, Southern 'Little Gem'	<i>Magnolia grandiflora</i> 'Little Gem'	150	Very Small	P			x	0		x	XX	M	VS	Pyramidal	40-60	20-30	EB	C	EV	W	Late Spring	X	X	Y	S	M	n/a	M	L	acidic	FS	n/a			
Magnolia, Star	<i>Magnolia stellata</i>	150	Very Small	L		x	x					S	VS	Multi-Stemmed	15-20	15-20	DB	M	YE	W	Late Winter	X		N	S	S	n/a	M	M	acidic	PS	n/a			
Magnolia, Sweetbay	<i>Magnolia virginiana</i>	900	Medium	P	XX		x			XX	XX	M	M	Oval	30-60	20-40	EB	C	EV	W	Summer	X		Y	F	M	n/a	W	L	acidic	PS	G/			
Maple, Amur	<i>Acer ginnala</i>	400	Small	P		x	x					S	S	Rounded	15-25	15-25	DB	M	RE	W	Spring			N	M	M	0.008	M	M	adapt	FS	n/a			
Maple, Chalk	<i>Acer leucoderme</i>	900	Medium	P	x	x	x	x		x		M	M	Spreading	20-40	10-30	DB	M	I	I				Y	M	M	n/a	M	H	ac-sl alk	FS	P/A	X		
Maple, Hedge	<i>Acer campestre</i>	900	Medium	P		x	x	x		x		M	M	Rounded	25-35	25-35	DB	M	YE	I				N	S	S	0.017	M	H	ac-alk	FS	n/a	X		
Maple, Japanese	<i>Acer palmatum</i>	400	Small	L	0		x	0			x	S	S	Oval	15-25	10-25	DB	M	RE	I				N	S	S	0.008	M	L	sl ac-sl alk	PS	n/a			
Maple, Norway	<i>Acer platanoides</i>	900	Medium	N	pest susceptible								M	M																					
Maple, Red	<i>Acer rubrum</i>	900	Medium	P	XX	XX	XX	XX	XX	XX	XX	0	M	M	Rounded	40-90	20-35	DB	M	RE	R	Late Winter	X		Y	F	L	0.084	M	L	sl ac	FS	G/		
Maple, Silver	<i>Acer saccharinum</i>	1,600	Large	L	0		x	0	0			L	L	Rounded	50-80	40-60	DB	M	YE	I				N	F	S	0.084	M	H	ac	FS	P/A			
Maple, Southern Sugar (Florida Sugar)	<i>Acer barbatum</i>	900	Medium	P	XX	x	XX	x	XX	XX	x	M	M	Rounded	40-70	25-60	DB	M	OR	I				Y	M	M	n/a	M	H	ac	FS	M/IS	X		
Maple, Sugar	<i>Acer saccharum</i>	1,600	Large	P	XX	XX	XX				x	0	L	L	Oval	60-80	30-50	DB	M	OR	I		X	Y	M	L	0.100	M	M	sl ac-sl alk	PS	pm			
Maple, Sugar 'Green Mountain'	<i>Acer saccharum</i> 'Green Mountain'	1,600	Large	P	XX	XX	XX				0	L	L	Oval	60-80	30-50	DB	M	OR	I			X	Y	F	L	0.100	M	M	sl ac-sl alk	PS	n/a			
Maple, Sugar 'Legacy'	<i>Acer saccharum</i> 'Legacy'	1,600	Large	P	XX	XX	XX				0	L	L	Oval	60-80	30-50	DB	M	OR	I			X	Y	F	L	0.100	M	M	sl ac-sl alk	PS	n/a			
Maple, Trident	<i>Acer buergeranum</i>	900	Medium	P	0	XX	XX	XX	XX	XX	0	M	S	Rounded	20-45	20-30	DB	M	MU	I				N	F	M	n/a	M	M	ac-alk	FS	n/a	X		
Mimosa	<i>Albizia julibrissin</i>	900	Medium	N	pest susceptible; weed tree								M	M																					
Mulberry, Red	<i>Morus rubra</i>	900	Medium	C	x	0		0	0		x	L	M	Rounded	40-70	20-50	DB	C	YE	I			X	X	Y	F	S	0.099	M	H	sl ac-sl alk	FS	G/		
Oak, Black	<i>Quercus velutina</i>	1,600	Large	C	x		x				x	L	L	Rounded	70-90	50-60	DB	M	RE	I			X		Y	M	L	-0.253	D	H	sl ac	FS	G/		
Oak, Cherrybark	<i>Quercus falcata</i> var. <i>pagodifolia</i>	1,600	Large	P	x		x				x	L	L	Rounded	60-100	30-50	DB	M	RE	I			X		Y	M	L	n/a	M	M	ac	FS	G/		
Oak, Chestnut	<i>Quercus prinus</i>	1,600	Large	P	x	0	XX	0	0		0	L	L	Rounded	50-80	30-60	DB	M	RE	I			X	X	Y	S	L	-0.342	D	H	acidic	FS	GM/S		
Oak, Diamond Leaf (Laurel)	<i>Quercus laurifolia</i>	1,600	Large	P	x	x	x					L	L	Rounded	60-80	50-60	DB	M	YE	I			X		N	M	L	n/a	M	M	ac-sl alk	FS	G/		
Oak, English	<i>Quercus robur</i>	1,600	Large	L		x	x					L	L	Rounded	40-60	40-60	DB	M	BR	I			X		N	S	M	-0.275	M	M	sl ac-sl alk	FS	n/a		
Oak, Georgia	<i>Quercus georgiana</i>	900	Medium	L	x		x					M	L	Rounded	20-40	10-30	DB	M	BR	I			X		Y	M	M	n/a	D	H	ac-alk	FS	n/a		
Oak, Laurel	<i>Quercus hemisphaerica</i>	1,600	Large	P	x	x	x					L	L	Rounded	60-90	50-60	DB	M	BR	I			X		N	F	M	-0.314	D	H	adapt	FS	n/a		
Oak, Laurel 'Darlington'	<i>Quercus hemisphaerica</i> 'Darlington'	1,600	Large	P	x	XX	XX					L	L	Rounded	60-90	50-60	DB	F	BR	I			X		N	F	M	n/a	D	H	adapt	FS	n/a		
Oak, Live	<i>Quercus virginiana</i>	1,600	Large	C	out of range								L	L																					
Oak, Northern Red	<i>Quercus rubra</i>	1,600	Large	P	XX	x	XX					L	L	Rounded	60-100	30-60	DB	M	RE	I			X		Y	F	L	-0.503	M	M	ac-sl ac	FS	GM/SC		
Oak, Nuttall	<i>Quercus nuttalli</i>	1,600	Large	P	x	x	x					L	L	Rounded	60-80	35-50	DB	M	RE	I			X		Y	M	L	n/a	M	M	ac	FS	n/a		
Oak, Oglethorpe	<i>Quercus oglethorpensis</i>	1,600	Large	C	x	x	x					M	L	Rounded	40-70	30-50	DB	M	RE	I			X		Y	S	M	n/a	W	M	n/a	FS	n/a		
Oak, Overcup	<i>Quercus lyrata</i>	1,600	Large	P	XX	XX	XX				x	L	L	Rounded	30-45	30-45	DB	M	BR	I			X		Y	M	L	-0.159	W	M	ac-sl alk	FS	G/		
Oak, Pin	<i>Quercus palustris</i>	1,600	Large	L	0	x	x	0	0		0	L	L	Pyramidal	40-100	20-50	DB	M	RE	I			X		N	M	M	-0.483	M	M	acidic	FS	mg		
Oak, Post	<i>Quercus stellata</i>	1,600	Large	L	x	x	XX					L	L	Rounded	40-50	35-40	DB	M/C	BR	I			X		Y	M	L	-0.327	D	H	ac-sl alk	FS	G/		
Oak, Sawtooth	<i>Quercus acutissima</i>	1,600	Large	L	0	0	x	0	0		0	M	L	Oval	50-60	30-60	DB	M	YE	I			X	X	N	F	M	-0.159	M	M	ac-sl alk	FS	n/a		
Oak, Scarlet	<i>Quercus coccinea</i>	1,600	Large	P	XX	XX	XX	x	x			L	L	Rounded	50-80	30-50	DB	M	RE	I			X		Y	M	L	-0.592	D	H	sl ac	FS	G/		
Oak, Shumard	<i>Quercus shumardii</i>	1,600	Large	P	XX	XX	XX	XX	XX			L	L	Rounded	60-100	30-70	DB	M	RE	I			X		Y	F	L	-0.265	M	H	ac-alk	FS	G/		
Oak, Southern Red	<i>Quercus falcata</i>	1,600	Large	P	XX	x	XX				x	L	L	Rounded	60-100	30-70	DB	M	OR	I			X		Y	M	L	-0.576	M	H	ac	FS	G/		
Oak, Swamp Chestnut	<i>Quercus michauxii</i>	1,600	Large	P	x	0	x	0	0		x	L	L	Oval	70-90	30-60	DB	M	YE	I			X		Y	M	L	-0.544	M	M	n/a	FS	G/		
Oak, Swamp White	<i>Quercus bicolor</i>	1,600	Large	P	x	x	x				x	L	L	Oval	70-90	30-60	DB	M	YE	I			X		Y	M	L	-0.457	M	M	n/a	FS	G/		

# Athens-Clarke County Tree Species List

SPECIES COMMON NAME	LATIN NAME	CANOPY AREA FOR DEVELOPMENT CODE		RECOMMENDED USES								PHYSICAL CHARACTERISTICS										ENVIRONMENTAL CHARACTERISTICS AND TOLERANCES														
		Square Feet of Canopy	Canopy Size Category	Level of Use	Large Landscape Areas	Road Frontages - Street	Road Frontages - Yard	Parking Lots	Plazas and Downtown Settings	Buffers	Riparian Zones and Drainage Areas	Utility Corridors	Height Class in Urban Conditions	Crown Class in Urban Conditions	Mature Crown Form	Typical Range of Mature Tree Height	Typical Range of Mature Crown Width	Leaf Type	Leaf Texture	Fall Leaf Color	Flower Color	Flowering Time	Wildlife Value	Excessive Litter	Native Tree to Athens-Clarke Co.	Growth Rate	Average Life Span	Net Effect on Air Quality	Soil Moisture	Drought Tolerance	Preferred Soil pH	Light Requirement	Construction Tolerance/Limitations	Urban Tolerant Tree		
Oak, Water	<i>Quercus nigra</i>	1,600	Large	P	XX	x	XX				XX	0	L	L	Rounded	50-100	30-70	DB	M	YE	I		X		Y	F	M	-0.451	M	M	ac-sl alk	FS	G/			
Oak, White	<i>Quercus alba</i>	1,600	Large	P	XX	x	XX						L	L	Rounded	60-100	30-80	DB	M	RE	I		X		Y	S	L	-0.348	M	M	acidic	FS	GM/S			
Oak, Willow	<i>Quercus phellos</i>	1,600	Large	P	XX	XX	XX	XX	XX	0	XX	0	L	L	Rounded	40-100	30-60	DB	F/M	YE	I		X		Y	F	L	-0.314	M	H	acidic	FS	GM/S	X		
Orange, Osage	<i>Maclura pomifera</i>	900	Medium	L	x	0	x	0	0		0		M	M	Spreading	30-40	30-40	DB	M/C	YE	I		X	X	N	F	L	0.000	D	H	sl ac-sl alk	FS	n/a	X		
Parrotia	<i>Parrotia persica</i>	400	Small	L		x	x						S	S	Rounded	20-40	20-35	DB	M	OR	R	Spring			N	F	S	n/a	M	M	ac-sl alk		n/a			
Pear, Bradford	<i>Pyrus calleryana 'Bradford'</i>	900	Medium	N	defective branch structure								M	M	Oval										X	X	N									
Pear, Callery	<i>Pyrus calleryana</i>	900	Medium	N	defective branch structure								M	M	Oval											X	X	N								
Pear, Common	<i>Pyrus communis</i>	900	Medium	C	x	0	x	0	0	0	0	0	M	M	Oval	35-45	35-45	DB	M	MA	W	Spring	X	X	N	F	M		M	L	sl ac-sl alk	FS	M/S			
Pecan	<i>Carya illinoensis</i>	1,600	Large	P	x	0	x	0	0	0			L	L	Upright	60-100	30-75	DB	M/C	YE	I		X	X	N	S	M	0.088	M	L	sl ac-sl alk	FS	mg			
Persimmon, Common	<i>Diospyros virginiana</i>	900	Medium	P	x	0	x	0	0		x		L	M	Oval	70-80	40-60	DB	M	RE	I		X	X	Y	M	S	0.058	M	H	ac-alk	FS	G/P	X		
Pine, Eastern White	<i>Pinus strobus</i>	1,600	Large	C	not heat tolerant								L	L																						
Pine, Loblolly	<i>Pinus taeda</i>	1,600	Large	P	XX	x	x	XX		XX	x	0	L	L	Pyramidal	80-100	20-40	EC	F	EV	I		X		Y	F	M	0.016	M	M	acidic	FS	G/			
Pine, Longleaf	<i>Pinus palustris</i>	1,600	Large	C			x	x			x	0	L	L	Pyramidal	60-100	20-40	EC	F	EV	I		X		N	M	L	0.010	M	H	ac-sl alk	FS	GM/C			
Pine, Shortleaf	<i>Pinus echinata</i>	1,600	Large	P	XX	x	x	x		x	x	0	L	L	Pyramidal	60-100	20-40	EC	F	EV	I		X		Y	M	L	0.008	M	H	ac	PS	GM/P			
Pine, Slash	<i>Pinus elliotii</i>	1,600	Large	C			x	x		x	0		L	L	Pyramidal	60-100	20-50	EC	F	EV	I		X		N	F	M	0.010	M	M	ac-sl alk	FS	G/			
Pine, Virginia	<i>Pinus virginiana</i>	900	Medium	P	x		x	x		XX	x		M	M	Pyramidal	15-70	10-35	EC	F	EV	I		X		Y	F	S	0.003	M	H	ac	FS	G/	X		
Pistache, Chinese	<i>Pistacia chinensis</i>	900	Medium	P		x	XX	x	x	x	0		M	M	Rounded	60-80	40-50	DB	M	RE	G	Spring	X		N	M	M	n/a	M	H	ac-alk	FS	n/a	X		
Planetree, London	<i>Platanus x acerifolia</i>	1,600	Large	P	x	XX	XX	XX	x				L	L	Irregular	60-100	20-80	DB	C	YE	I				N	F	M	-0.415	M	H	sl ac-sl alk	FS	pg	X		
Plum, Chickasaw	<i>Prunus angustifolia</i>	150	Very Small	C	x	0	x			x	x		S	VS	Rounded	10-20	10-20	DB	F	I	W	Late Winter	X		Y	M	S	n/a	M	H	sl ac-sl alk	FS	M/IS			
Plum, Purpleleaf	<i>Prunus cerasifera</i>	400	Small	L		x	x			XX	x		S	S	Rounded	10-25	10-25	DB	F	RE	P/W	Spring	X		N	M	S	0.014	M	M	sl ac-sl alk	FS	mg			
Poplar, Lombardy	<i>Populus nigra var. italica</i>	900	Medium	N	not heat tolerant								L	M																						
Poplar, White	<i>Populus alba</i>	900	Medium	C			x						L	M	Oval	40-100	20-60	DB	C	YE	I				N	F	M	-0.417	M	H	ac-alk	FS	n/a			
Poplar, Yellow (Tuliptree)	<i>Liriodendron tulipifera</i>	1,600	Large	P	XX		x				XX	0	L	L	Oval	80-150	30-60	DB	C	YE	Y	Spring	X		Y	M	L	0.171	M	L	sl ac	FS	P/IS			
Redbud, Eastern	<i>Cercis canadensis</i>	400	Small	P	XX	XX	XX		XX	XX	x	XX	S	S	Spreading	25-50	15-25	DB	M	YE	P	Spring	X		Y	F	S	0.012	M	M	ac-sl ac	PS	M/S			
Redbud, Eastern White	<i>Cercis canadensis var. alba</i>	400	Small	P	x	XX	XX		XX	x	x	XX	S	S	Spreading	20-30	15-25	DB	M	YE	W	Spring	X		Y	F	S	n/a	M	M	ac-sl ac	PS	n/a			
Redbud, 'Forest Pansy'	<i>Cercis canadensis 'Forest Pansy'</i>	400	Small	P	x	XX	XX		XX	x	x	XX	S	S	Spreading	20-30	15-25	DB	M	YE	P	Spring	X		Y	F	S	n/a	M	L	ac-sl ac	PS	n/a			
Redbud, 'Oklahoma'	<i>Cercis reniformis 'Oklahoma'</i>	400	Small	P		XX	XX	x	XX			XX	S	S	Rounded	20-25	15-20	DB	M	YE	P	Spring	X		N	M	S	n/a	D	H	ac-sl ac	FS	n/a	X		
Redbud, 'Texas White'	<i>Cercis reniformis 'Texas White'</i>	400	Small	P		XX	XX	x	XX			XX	S	S	Rounded	20-25	15-20	DB	M	YE	W	Spring	X		N	M	S	n/a	D	H	ac-sl ac	FS	n/a			
Redcedar, Eastern	<i>Juniperus virginiana</i>	900	Medium	P	x		XX	x		XX	x	0	M	M	Pyramidal	40-60	10-20	EC	F	EV	I		X		Y	S	M	-0.010	M	H	ac-nu	FS	M/IS			
Redwood, Dawn	<i>Metasequoia glyptostroboides</i>	900	Medium	P	x		XX	x		XX			L	M	Pyramidal	75-100	25-30	DC	F	BR	I				N	F	L	0.163	M	M	n/a	FS	n/a	X		
Royal Paulownia (Princess-Tree)	<i>Paulownia tomentosa</i>	900	Medium	C		0	x	0	0		0	0	M	M	Irregular	30-50	20-50	DB	C	YE	P	Spring		X	N	F	S	0.022	M	M	ac-sl alk	FS	g			
Sassafras	<i>Sassafras albidum</i>	900	Medium	C	x		x			x	x		M	M	Oval	30-60	20-40	DB	M	OR	Y	Spring	X		Y	M	M	0.069	M	H	sl ac	FS	G/			
Serviceberry, Downy	<i>Amelanchier arborea</i>	400	Small	P	XX	XX	XX		XX	XX	x	x	S	S	Irregular	15-40	10-20	DB	M	OR	W	Spring	X		Y	S	M	0.004	M	M	acidic	PS	M/IS			
Silverbell, Carolina	<i>Halesia tetraptera</i>	900	Medium	P	XX	x	x				x		M	M	Irregular	30-60	20-35	DB	M	YE	W	Spring			Y	M	M	n/a	M	L	ac-sl alk	PS	M/ISC			
Silverbell, Two-Winged	<i>Halesia diptera</i>	400	Small	L	XX	x	x				x	XX	S	S	Rounded	15-20	15-20	DB	M	YE	W	Spring	X		N	M	M	n/a	M	M	ac-sl alk	PS	M/SC			
Smoketree, American	<i>Cotinus obovatus</i>	150	Very Small	L			x				x		S	VS	Oval	15-30	10-25	DB	M	MU	P	Spring			Y	M	S	n/a	D	H	sl ac-sl alk	PS	n/a	X		
Smoketree, Common	<i>Cotinus coggygria</i>	150	Very Small	L			x				x		S	VS	Oval	10-15	10-15	DB	M	MU	P	Late Spring			N	M	S	n/a	D	H	sl ac-sl alk	FS	n/a	X		
Sourwood	<i>Oxydendrum arboreum</i>	900	Medium	C	XX		x						M	M	Spreading	30-60	20-30	DB	M	RE	W	Summer			Y	M	S	0.018	M	M	ac-sl ac	FS	P/A			
Sparkleberry, Tree	<i>Vaccinium arboreum</i>	150	Very Small	C			x				x	x	S	VS	Irregular	10-20	5-10	DB	F	RE	W	Late Spring	X		Y	S	S	n/a	M	M	ac-sl alk	S	M/A			



# Athens-Clarke County Tree Species List

SPECIES COMMON NAME	LATIN NAME	CANOPY AREA FOR DEVELOPMENT CODE		RECOMMENDED USES								PHYSICAL CHARACTERISTICS										ENVIRONMENTAL CHARACTERISTICS AND TOLERANCES												
		Square Feet of Canopy	Canopy Size Category	Level of Use	Large Landscape Areas	Road Frontages - Street	Road Frontages - Yard	Parking Lots	Plazas and Downtown Settings	Buffers	Riparian Zones and Drainage Areas	Utility Corridors	Height Class in Urban Conditions	Crown Class in Urban Conditions	Mature Crown Form	Typical Range of Mature Tree Height	Typical Range of Mature Crown Width	Leaf Type	Leaf Texture	Fall Leaf Color	Flower Color	Flowering Time	Wildlife Value	Excessive Litter	Native Tree to Athens-Clarke Co.	Growth Rate	Average Life Span	Net Effect on Air Quality	Soil Moisture	Drought Tolerance	Preferred Soil pH	Light Requirement	Construction Tolerance/Limitations	Urban Tolerant Tree
Spruce Varieties	<i>Picea species</i>	900	Medium	N								L	M											N										
Sugarberry	<i>Celtis laevigata</i>	1,600	Large	C	x		x			0	x	L	L	Spreading	60-80	25-60	DB	F/M	YE	I			X	Y	M	M	0.118	M	M	ac	FS	G/I		
Sweetgum	<i>Liquidambar styraciflua</i>	1,600	Large	C	x	0	x	0	0		x	L	L	Oval	60-80	40-60	DB	M	MU	I			X	Y	F	L	-0.488	M	L	sl ac	FS	G/		
Sycamore	<i>Platanus occidentalis</i>	1,600	Large	P	x		x				x	L	L	Oval	70-100	30-70	DB	C	BR	I			X	Y	F	M	-0.789	M	M	sl ac-sl alk	FS	G/		
Tallowtree, Chinese	<i>Sapium sebiferum</i>	900	Medium	N								M	M											N										
Tree-of-Heaven (Ailanthus)	<i>Ailanthus altissima</i>	900	Medium	N								M	M											N										
Walnut, Black	<i>Juglans nigra</i>	1,600	Large	C	x	0	x	0	0		x	L	L	Rounded	60-70	50-70	DB	M	YE	I			X	Y	M	L	0.086	M	L	acidic	FS	P/IS		
Waxmyrtle, Southern	<i>Myrica cerifera</i>	150	Very Small	P			x	x		x	0	S	VS	Multi-Stemmed	10-30	10-30	EB	F	EV	I			X	N	M	S	n/a	M	M	ac-alk	FS	G/		
Willow, Black	<i>Salix nigra</i>	900	Medium	C	x	0		0	0		x	M	M	Irregular	30-40	30-40	DB	F/M	YE	I				Y	F	S	-0.177	W	L	n/a	FS	G/		
Willow, Weeping	<i>Salix babylonica</i>	1,600	Large	L	x	0	x	0	0		0	L	L	Rounded	30-70	20-70	DB	F/M	YE	I				N	F	M	-0.096	W	M	acidic	FS	mg		
Winterberry, Common	<i>Ilex verticillata</i>	150	Very Small	P	x	x	x			x	x	S	VS	Multi-Stemmed	5-15	5-10	DB	M	I	I			X	Y	M	S	n/a	M	L	ac	FS	G/		
Witchhazel, Common	<i>Hamamelis virginiana</i>	400	Small	P	x		x		x	x	x	S	S	Spreading	20-35	20-35	DB	M/C	YE	Y	Fall			Y	M	M	-0.009	M	M	sl ac	PS	M/IS		
Yellowwood, American	<i>Cladrastis kentukea</i>	900	Medium	L	x							M	M	Upright	30-50	40-50	DB	M/C	YE	W	Spring			N	M	M	0.013	M	M	n/a	PS	P/A		
Zelkova, Japanese	<i>Zelkova serrata</i>	1,600	Large	L			x		x		0	L	L	Upright	40-80	30-75	DB	M	RE	I				N	M	M	0.084	M	H	ac-sl alk	FS	n/a	X	

\*Showing signs of possible invasiveness. Limit planting until further investigation.