

SMALL TREES

Genus	Species	Common Name	Evergreen	Size	Light needs	Moisture preference	Street Tree	Pollution Resistant	Powerline Compatible	Use in stormwater solutions	Native Range	Visual Attraction/ food source	Shade Tree	Minimum soil volume required - Cubic Ft	Notes for use/Disease susceptibility	Chesapeake Bay Preservation Ordinance Size requirement (height or caliper)	Chesapeake Bay Preservation Ordinance Minimum Spread requirement (Feet)	Chesapeake Bay Preservation Ordinance Coverage (including native bonus)
<i>Cephalanthus</i>	<i>occidentalis</i>	Buttonbush		Small	Full sun to shade	High		✓	✓	✓	Local	Round white flowers		600		6-7 Ft. tall	3 Ft.	62.5
<i>Corylus</i>	<i>americana</i>	American hazelnut		Small	Partial shade	Low			✓		Local	Pale catkins, edible nuts		600	Susceptible to dogwood anthracnose, which can be prevented by regular watering during dry times	6-7 Ft. tall	3 Ft.	62.5
<i>Prunus</i>	<i>americana</i>	American plum		Small	Full to partial sun	High			✓		Region	White flowers		600	Susceptible to limb breakage. Use for restoration or open areas. Edible fruit	6-7 Ft. tall	3 Ft.	62.5
<i>Ptelea</i>	<i>trifoliata</i>	Hoptree		Small	Full sun to shade	Low			✓		Local	Interesting fruit, striking fall color		600		6-7 Ft. tall	3 Ft.	62.5
<i>Rhus</i>	<i>copallina</i>	Winged Sumac		Small	Full to partial sun	Low		✓	✓	✓	Local	Striking fall color, large colored flower spikes		600	Spreads readily, excellent for slope control along roads.	6-7 Ft. tall	3 Ft.	62.5
<i>Rhus</i>	<i>typhina</i>	Staghorn sumac		Small	Full sun	Low		✓			Local	Striking fall color, large colored flower spikes		600	Spreads readily, excellent for slope control along roads.	6-7 Ft. tall	3 Ft.	62.5
<i>Staphylea</i>	<i>trifolia</i>	American bladdernut		Small	Partial sun to shade	Low			✓		Local	Interesting fruit and white flowers		600		6-7 Ft. tall	3 Ft.	62.5
<i>Styrax</i>	<i>americanus</i>	American snowbell		Small	Full to partial sun	Low			✓		Region	White bell flowers		600		6-7 Ft. tall	3 Ft.	62.5
<i>Thuja</i>	<i>occidentalis</i>	Arborvitae	✓	Small	Full sun	Low			✓		Region	Evergreen		600		6-7 Ft. tall	3 Ft.	62.5
<i>Viburnum</i>	<i>prunifolium</i>	Blackhaw viburnum		Small	Partial sun to shade	Low	✓	✓	✓	✓	Local	Striking fall color		600		6-7 Ft. tall	3 Ft.	62.5
<i>Viburnum</i>	<i>lentago</i>	Nannyberry		Small	Partial sun to shade	Low			✓		Region	Striking fall color		600		6-7 Ft. tall	3 Ft.	62.5
<i>Amelanchier</i>	<i>arborea</i>	Downy serviceberry		Small-Medium	Partial sun to shade	High	✓		✓	✓	Local	White flowers, edible fruit		600	Single-trunked for street trees, multi-trunk in large plantings. Fruit is susceptible to Cedar Apple Rust, which does not otherwise affect the tree's health.	6-7 Ft. tall	3 Ft.	137.5
<i>Amelanchier</i>	<i>canadensis</i>	Shadblow serviceberry		Small-Medium	Partial sun to shade	Moderate	✓		✓	✓	Local	White flowers, edible fruit		600	Single-trunked for street trees, multi-trunk in large plantings. Fruit is susceptible to Cedar Apple Rust, which does not otherwise affect the tree's health. X <i>grandiflora</i> 'Autumn brilliance', a hybrid with <i>A. laevis</i> is also acceptable, and may be more formal.	6-7 Ft. tall	3 Ft.	137.5
<i>Amelanchier</i>	<i>laevis</i>	Allegheny serviceberry		Small-Medium	Partial sun to shade	Moderate			✓		Local	White flowers, edible fruit		600	Single-trunked for street trees, multi-trunk in large plantings. Fruit is susceptible to Cedar Apple Rust, which does not otherwise affect the tree's health.	6-7 Ft. tall	3 Ft.	137.5
<i>Carpinus</i>	<i>caroliniana</i>	American hornbeam		Small-Medium	Partial sun to shade	High	✓		✓		Local	Attractive bark		600	Use fastigate varieties for street trees only	>1 Inch caliper	3 Ft.	137.5

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<i>Castanea</i>	<i>pumila</i>	Chinquapin		Small-Medium	Full to partial sun	Low			√		Local	Edible nuts		600	More resistant to Chestnut blight than related American Chestnut. Fruit also edible.	6-7 Ft. tall	3 Ft.	137-5
<i>Cercis</i>	<i>canadensis</i>	Eastern redbud		Small-Medium	Partial sun to shade	Low	√		√	√	Local	Purple flowers		600		>1 Inch caliper	3 Ft.	137-5
<i>Chamaecyparis</i>	<i>thyoides</i>	Atlantic whitecedar	√	Small-Medium	Partial sun to shade	High				√	Region	Evergreen, striped bark	√	900	Single-trunked for street trees, multi-trunk in large plantings. Can form damaging cankers, which can be controlled by selective pruning.	6-7 Ft. tall	3 Ft.	137-5
<i>Chionanthus</i>	<i>virginicus</i>	White fringetree		Small-Medium	Full to partial sun	Low		√	√	√	Local	White flowers		600	Susceptible to Emerald Ash Borer. Only use single-trunk as street tree	6-7 Ft. tall	3 Ft.	137-5
<i>Cornus</i>	<i>alternifolia</i>	Pagoda dogwood		Small-Medium	Partial sun to shade	High			√		Local	White flowers		600		>1 Inch caliper	3 Ft.	137-5
<i>Cornus</i>	<i>florida</i>	Flowering dogwood		Small-Medium	Partial shade	Low			√		Local	White flowers		600	Susceptible to dogwood anthracnose, which can be prevented by regular watering during dry times. Consider "Stellar, Rutgers"	>1 Inch caliper	3 Ft.	137-5
<i>Crataegus</i>	<i>crus-galli</i>	Cockspur hawthorn		Small-Medium	Full sun	Low		√	√		Local	White flowers		600	Fruit is susceptible to Cedar Apple Rust, which does not otherwise affect the tree's health.	>1 Inch caliper	3 Ft.	137-5
<i>Crataegus</i>	<i>phaenopyrum</i>	Washington hawthorn		Small-Medium	Full sun to shade	Low		√	√	√	Local	White flowers		600	Fruit is susceptible to Cedar Apple Rust, which does not otherwise affect the tree's health.	>1 Inch caliper	3 Ft.	137-5
<i>Crataegus</i>	<i>viridis</i>	Green hawthorn		Small-Medium	Partial sun to shade	Low		√	√	√	Local	White flowers, striking fall color		600	Single-trunked for street trees, multi-trunk in large plantings. Fruit is susceptible to Cedar Apple Rust, which does not otherwise affect the tree's health.	>1 Inch caliper	3 Ft.	137-5
<i>Juniperus</i>	<i>virginiana</i>	Eastern redcedar	√	Small-Medium	Full sun	Low	√	√	√		Local	Evergreen	√	900		6-7 Ft. tall	3 Ft.	137-5
<i>Magnolia</i>	<i>virginiana</i>	Sweetbay magnolia	√	Small-Medium	Full to partial sun	High		√	√	√	Local	White flowers		600	Semi-evergreen, depending on the local heat regime. "Henry Hicks" can be used under power lines. Single stem only for street trees.	6-7 Ft. tall	3 Ft.	137-5
<i>Malus</i>	<i>angustifolia</i>	Southern crabapple		Small-Medium	Full sun	Low			√		Local	White flowers, edible fruit		600	Fruit is susceptible to Cedar Apple Rust, which does not otherwise affect the tree's health.	>1 Inch caliper	3 Ft.	137-5
<i>Malus</i>	<i>coronaria</i>	Sweet crabapple		Small-Medium	Full sun	Low		√	√		Local	White flowers, edible fruit		600	Fruit is susceptible to Cedar Apple Rust, which does not otherwise affect the tree's health.	>1 Inch caliper	3 Ft.	137-5
<i>Oxydendrum</i>	<i>arboreum</i>	Sourwood		Small-Medium	Full to partial sun	Moderate			√		Region	Striking fall color, Panicked white flowers		900		>1 Inch caliper	3 Ft.	137-5

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Right tree, right place: Every species of tree has different requirements. Understand the space in which you are planning for tree planting before finalizing your selection. Work with a qualified professional, or reach out to your local extension agent for assistance.

Arlington County has a Natives Preferred policy for planting on County property, and local native trees are required in Resource Protection Areas, Natural Lands or Natural Resource Conservation Areas

This spreadsheet serves as Appendix E to the Chesapeake Bay Preservation Ordinance Guidance Manual

Glossary:

Genus	A group of plants marked by common characteristics, like Quercus (Oaks), Acer (Maples), or Cornus (Dogwoods)
Species	An individual type of plant, capable of interbreeding within its designation, like Quercus stellata (Post oak), or Tilia americana (American linden)
Common Name	The common description of a plant, like American Holly, or Tuliptree. A tree can have several common names, which is why latin names are often preferred.
Evergreen	A tree which retains its leaves over the winter. These trees do lose leaves or needles over time, but at a slower rate than deciduous trees
Size	Mature size (usually within 30-50 years, depending on species, but all trees continue to grow). Small trees typically stay under 20 ft tall, medium under 40 ft, and large trees can reach up to 100 ft tall
Growth Rate	The speed at which a species grows to its mature size. Keep in mind a fast-growing small tree may grow fast for its species, but due to genetic limitations, may not reach the size of a slow-growing large tree
Light needs	The light requirements for a tree to grow optimally. Trees preferring full sun should be in full sun for at least 6 hours a day, while trees preferring shade can live with less than 3 hours of sunlight a day
Moisture preference	The need for dry, moderate, or wet soils. This can be accomodated through proper irrigation, maintenance and/or design
Street Tree	Trees well suited for planting along roads, or in tree pits, when specified as upright or vase-shaped form for small trees, and limbed up to a safe height, and not obstruct view for traffic. Trees with large fruit can be planted in low density areas
Pollution Resistant	Trees well suited for planting in tough areas with high pollution from both the air, as well as salt spray from the road. These species are often also well-suited for stormwater control facilities.
Powerline Compatible	Species that may be acceptable to be planted below powerlines, due to size or stature. These species have not been reviewed by Dominion Virginia Power, and utility companies maintain the right to prune or trim any trees or vegetation
Use in stormwater solutions	Trees that may be appropriate to be planted in regulated stormwater BMPs. Street tree BMPs not currently permitted
Native Range	Nativity, either locally (native to Arlington, Alexandria, or Fairfax) or regionally (native to Virginia, West Virginia, Maryland, Delaware, North Carolina, Washington DC, New Jersey, or Pennsylvania)
Visual Attraction/food source	Interest from the tree that sets it apart from other trees, or potential food source. Do your research before eating, and confirm your identification.
Shade Tree	A tree likely to grow to a size where it will cast significant shade on the surrounding environment, reducing energy costs and urban heat island effect.
Suggested Cultivars	Cultivars of the species that have shown promise in our landscape and provide added aesthetic value, or may be more resistant to disease or other pathogens
Minimum Soil Volume	Minimum soil volumes required to allow the tree to meet its genetic potential size.
Chesapeake Bay Preservation Ordinance	Minimum required height or caliper for a tree to be counted for Chesapeake Bay Preservation Ordinance tree canopy requirements
Chesapeake Bay Preservation Ordinance	Minimum required spread for a tree to be counted for Chesapeake Bay Preservation Ordinance tree canopy requirements
Chesapeake Bay Preservation Ordinance	Total coverage given to each species, according to the table below

	Chesapeake Bay Pr	Native	Non-native	Spacing
	Large	393.75	315	20
	Medium-Large	312.5	250	20
	Medium	218.75	175	15
	Small-Medium	137.5	110	10
	Small	62.5	50	10