

SHADE 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	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)
Acer	negundo	Boxelder		Medium	Full to partial sun	High					Local	Striking fall color	Susceptible to limb breakage. Use for restoration or open areas, or along streams	2 - 2.5 Inch caliper	5 Ft.	218.75
Acer	rubrum	Red maple		Medium-Large	Full to partial sun	High				✓	Local	Striking fall color	Can have issues with girdling roots. Prefers a wet environment. Limit use due to overplanting	2 - 2.5 Inch caliper	5 Ft.	312.5
Asimina	triloba	Pawpaw		Medium	Full sun	High	✓				Local	Large leaves, red flowers, large edible fruit	Must be pollinated from a different tree to bear fruit. Only use as street tree in low density areas	>1 Inch caliper	3 Ft.	218.75
Betula	nigra	River Birch		Medium	Full sun to shade	High	✓	✓		✓	Local	Attractive bark	Single-trunked for street trees, multi-trunk in large plantings. Use sparingly, in wet areas with significant soil space	8-10 Ft tall	3 Ft.	218.75
Carya	cordiformis	Bitternut hickory		Large	Full sun	Low	✓				Local	Striking fall color	Must be transplanted at very young age and size	>1 Inch caliper	5 Ft.	393.75
Carya	glabra	Pignut hickory		Medium-Large	Full sun to shade	Low					Local	Striking fall color	Must be transplanted at very young age and size	>1 Inch caliper	5 Ft.	312.5
Carya	ovata	Shagbark hickory		Large	Full sun	Low	✓	✓			Region	Striking fall color	Must be transplanted at very young age and size	>1 Inch caliper	5 Ft.	393.75
Carya	tomentosa	Mockernut hickory		Medium-Large	Full sun	Low					Local	Striking fall color	Must be transplanted at very young age and size	>1 Inch caliper	5 Ft.	312.5
Celtis	laevigata	Sugar hackberry		Medium-Large	Full to partial sun	High	✓	✓			Local	Attractive bark		2 - 2.5 Inch caliper	5 Ft.	312.5
Celtis	occidentalis	Common hackberry		Medium-Large	Full to partial sun	High	✓	✓		✓	Local	Attractive bark		2 - 2.5 Inch caliper	5 Ft.	312.5
Diospyros	virginiana	Common persimmon		Medium	Full sun to shade	Low		✓		✓	Local	Edible Fruit, unusual black bark	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.	218.75
Fagus	grandifolia	American beech		Large	Full to partial sun	Low					Local	Smooth bark, edible nuts		1 3/4 - 2 Inch caliper	5 Ft.	393.75
Gleditsia	triacanthos	Honeylocust		Medium-Large	Full sun	Any	✓	✓			Region	White clustered flowers. Large seedpods	Use only fruitless varieties as street tree, like 'Inermis'. Roots may be aggressive	2 - 2.5 Inch caliper	5 Ft.	312.5
Gymnocladus	dioicus	Kentucky coffeetree		Medium-Large	Full sun	Moderate	✓	✓			Region	Attractive bark		2 - 2.5 Inch caliper	3 Ft.	312.5
Ilex	opaca	American holly	✓	Medium	Full to partial sun	High		✓		✓	Local	Attractive winter berries		6-7 Ft. tall	3 Ft.	218.75

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Juglans	nigra	Black Walnut		Large	Full sun	Moderate		√			Local	Large edible fruit	Will kill some plants beneath it. Specimen tree use only. Susceptible to Thousand canker disease. Must be transplanted at very young age and size.	1 3/4 - 2 Inch caliper	5 Ft.	393.75
Liquidambar	styraciflua	Sweetgum		Large	Full to partial sun	High	√			√	Local	Striking fall color	Provide significant root space for this tree. Limit use as street tree due to tendency to destroy pavement. Acceptable for medians	2 - 2.5 Inch caliper	3 Ft.	393.75
Liriodendron	tulipifera	Tuliptree		Large	Full to partial sun	Moderate					Local	Tulip-shaped flowers and leaves		2 - 2.5 Inch caliper	3 Ft.	393.75
Magnolia	acuminata	Cucumbertree		Medium-Large	Full sun	Moderate					Local	White flowers	Hybrids acceptable	6-7 Ft. tall	3 Ft.	312.5
Magnolia	grandiflora	Southern magnolia	√	Large	Full to partial sun	High		√			Region	White flowers		8 - 10 Ft. Tall	5 Ft.	393.75
Morus	rubra	Red mulberry		Medium-Large	Full to partial sun	High					Local	Edible fruit, larger than non-native mulberry	Do not confuse with Morus alba (White mulberry), which is an invasive plant	>1 Inch caliper	5 Ft.	312.5
Nyssa	sylvatica	Black tupelo		Medium	Full to partial sun	High	√	√		√	Local	Striking fall color		1 3/4 - 2 Inch caliper	5 Ft.	218.75
Pinus	echinata	Shortleaf pine	√	Medium-Large	Full sun	Low		√			Local	Evergreen		6-7 Ft. tall	3 Ft.	312.5
Pinus	rigida	Pitch pine	√	Medium	Full sun	Moderate		√			Local	Evergreen		6-7 Ft. tall	3 Ft.	218.75
Pinus	taeda	Loblolly pine	√	Large	Full sun	Low		√		√	Local	Evergreen		6-7 Ft. tall	3 Ft.	393.75
Pinus	virginiana	Virginia pine	√	Medium	Full sun	Low					Local	Evergreen		6-7 Ft. tall	3 Ft.	218.75
Platanus	occidentalis	American sycamore		Large	Full sun	Any		√		√	Local	Large leaves, interesting seeds	Susceptible to anthracnose	2 - 2.5 Inch caliper	5 Ft.	393.75
Prunus	serotina	Black cherry		Medium-Large	Full sun	Low					Local	White flowers	Susceptible to limb breakage. Use for restoration or open areas. Edible fruit	1 3/4 - 2 Inch caliper	5 Ft.	312.5
Quercus	alba	White oak		Large	Full to partial sun	High		√			Local	Silver-white bark	Needs significant rooting space	1 3/4 - 2 Inch caliper	5 Ft.	393.75
Quercus	bicolor	Swamp white oak		Medium-Large	Full to partial sun	High	√	√		√	Local	Attractive peeling bark, multi-colored leaves		1 3/4 - 2 Inch caliper	5 Ft.	312.5
Quercus	coccinea	Scarlet oak		Large	Full sun	Low	√	√			Local	Striking fall color		1 3/4 - 2 Inch caliper	5 Ft.	393.75
Quercus	falcata	Southern red oak		Large	Full sun	Low	√	√			Local	Striking fall color		1 3/4 - 2 Inch caliper	5 Ft.	393.75
Quercus	hemisphaerica	Darlington oak		Medium-Large	Full sun	Low	√				Region	Thin, sun-filtering leaves		1 3/4 - 2 Inch caliper	5 Ft.	312.5
Quercus	imbricaria	Shingle oak		Medium-Large	Full sun	Moderate	√				Local	Semi-evergreen		1 3/4 - 2 Inch caliper	5 Ft.	312.5
Quercus	lyrata	Overcup oak		Medium-Large	Full to partial sun	High to Moderate	√	√			Region	Attractive leaves and fruit		1 3/4 - 2 Inch caliper	5 Ft.	312.5
Quercus	macrocarpa	Bur oak		Large	Full sun	Low	√	√			Region	Attractive leaves and fruit	Needs significant rooting space	1 3/4 - 2 Inch caliper	5 Ft.	393.75

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Quercus	marilandica	Blackjack oak		Medium	Partial shade	Low					Local	Blocky bark		6-7 Ft. tall	3 Ft.	218.75
Quercus	michauxii	Swamp chestnut oak		Large	Full sun	High					Local	Interesting leaves		1 3/4 - 2 Inch caliper	5 Ft.	393.75
Quercus	montana	Chestnut oak		Large	Full sun	Low					Local	Silver-grey bark		1 3/4 - 2 Inch caliper	5 Ft.	393.75
Quercus	nigra	Water oak		Large	Full to partial sun	High				✓	Region	Evergreen		1 3/4 - 2 Inch caliper	5 Ft.	393.75
Quercus	pagoda	Cherrybark oak		Large	Full sun	Low					Local	Cherry-like bark		1 3/4 - 2 Inch caliper	5 Ft.	393.75
Quercus	palustris	Pin oak		Medium-Large	Full sun	High	✓			✓	Local	Even form, small acorns		2 - 2.5 Inch caliper	5 Ft.	312.5
Quercus	phellos	Willow oak		Medium-Large	Full sun	Any	✓	✓		✓	Local	Thin, sun-filtering leaves		2 - 2.5 Inch caliper	5 Ft.	312.5
Quercus	rubra	Northern Red oak		Large	Full sun	Low		✓			Local	Striking fall color		2 - 2.5 Inch caliper	5 Ft.	393.75
Quercus	shumardii	Shumard Oak		Medium-Large	Full sun	Low	✓	✓			Local	Striking fall color		2 - 2.5 Inch caliper	5 Ft.	312.5
Quercus	stellata	Post oak		Large	Full sun	Low	✓				Local	Cross-shaped leaves		>1 Inch caliper	5 Ft.	393.75
Quercus	velutina	Black oak		Medium-Large	Full sun	High					Local	Striking fall color		2 - 2.5 Inch caliper	5 Ft.	312.5
Robinia	pseudoacacia	Black locust		Medium	Full sun	Any		✓			Local	Large clusters of white flowers		2 - 2.5 Inch caliper	3 Ft.	218.75
Salix	nigra	Black willow		Medium	Full to partial sun	High				✓	Local	Slender leaves		2 - 2.5 Inch caliper	5 Ft.	218.75
Sassafras	albidum	Sassafras		Medium	Full to partial sun	Low			✓		Local	Striking fall color, variegated leaves, pleasant fragrance		6-7 Ft. tall	3 Ft.	218.75
Taxodium	distichum	Baldcypress		Medium-Large	Full sun	High	✓	✓		✓	Region	Deciduous conifer	var. imbricarium or T. ascendens (pondcypress) is acceptable	2 - 2.5 Inch caliper	5 Ft.	312.5
Tilia	americana	American Linden		Large	Full sun	High					Local	White flowers, striking fall color	Use sparingly, in wet areas, with significant soil space	2 - 2.5 Inch caliper	5 Ft.	393.75
Tsuga	canadensis	Eastern hemlock	✓	Medium-Large	Partial shade	Moderate					Local	Evergreen	Susceptible to Hemlock woolly adelgid	6-7 Ft. tall	3 Ft.	312.5
Ulmus	americana	American elm		Large	Full sun	Any		✓		✓	Local	Attractive bark	Plant Dutch elm disease resistant cultivars only. 'Jefferson' and 'Valley Forge' have shown good resistance. 'Princeton' is not acceptable, due to poor resistance and form	2 - 2.5 Inch caliper	5 Ft.	393.75
Ulmus	rubra	Slippery elm		Medium-Large	Partial sun to shade	Any					Local	Attractive bark		2 - 2.5 Inch caliper	5 Ft.	312.5