

SHADE TREES

Genus	Species	Common Name	Evergreen	Size	Light needs	Moisture preference	Street Tree	Pollution Resistant	Powerline Compat-ible	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)
Acer	negundo	Boxelder		Large	Full to partial sun	High					Local	Striking fall color	✓	1200	Susceptible to limb breakage. Use for restoration or open areas. Great for stream restoration	2 - 2.5 Inch caliper	5 Ft.	393.75
Acer	rubrum	Red maple		Large	Full to partial sun	High				✓	Local	Striking fall color	✓	1200	Can have issues with girdling roots. Prefers a wet environment. Limit use due to overplanting	2 - 2.5 Inch caliper	5 Ft.	393.75
Asimina	triloba	Pawpaw		Medium	Full sun	High		✓	✓		Local	Large leaves, red flowers, large edible fruit	✓	900	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	✓	900	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	cordiformes	Bitternut hickory		Medium-Large	Full sun	Low	✓				Local	Striking fall color	✓	1200	Must be transplanted at very young age and size	>1 Inch caliper	5 Ft.	312.5
Carya	glabra	Pignut hickory		Medium-Large	Full sun to shade	Low					Local	Striking fall color	✓	1200	Must be transplanted at very young age and size	>1 Inch caliper	5 Ft.	312.5
Carya	ovata	Shagbark hickory		Medium-Large	Full sun	Low	✓	✓			Region	Striking fall color	✓	1200	Must be transplanted at very young age and size	>1 Inch caliper	5 Ft.	312.5
Carya	tomentosa	Mockernut hickory		Medium-Large	Full sun	Low					Local	Striking fall color	✓	1200	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	✓	1200		2 - 2.5 Inch caliper	5 Ft.	312.5
Celtis	occidentalis	Common hackberry		Large	Full to partial sun	High	✓	✓		✓	Local	Attractive bark	✓	1200		2 - 2.5 Inch caliper	5 Ft.	393.75
Diospyros	virginiana	Common persimmon		Medium	Full sun to shade	Low				✓	Local	Edible Fruit, unusual black bark	✓	900	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	✓	1200		1 3/4 - 2 Inch caliper	5 Ft.	393.75
Gleditsia	triacanthos	Honeylocust		Medium-Large	Full sun	Any	✓	✓			Region	White clustered flowers. Large seedpods	✓	1200	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	Full sun	Moderate	✓	✓			Region	Attractive bark	✓	1200		2 - 2.5 Inch caliper	3 Ft.	218.75
Ilex	Opaca	American holly	✓	Medium	Full to partial sun	High		✓		✓	Local	Attractive winter berries	✓	900		6-7 Ft. tall	3 Ft.	218.75
Juglans	nigra	Black Walnut		Large	Full sun	Moderate					Local	Large edible fruit	✓	1200	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

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<i>Liquidambar</i>	<i>styraciflua</i>	Sweetgum		Medium	Full to partial sun	High	✓			✓	Local	Striking fall color	✓	1200	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.	218.75
<i>Liriodendron</i>	<i>tulipifera</i>	Tuliptree		Medium	Full to partial sun	Moderate					Local	Tulip-shaped flowers and leaves	✓	1200		2 - 2.5 Inch caliper	3 Ft.	218.75
<i>Magnolia</i>	<i>acuminata</i>	Cucumbertree		Medium	Full sun	Moderate					Local	White flowers	✓	1200	Hybrids acceptable	6-7 Ft. tall	3 Ft.	218.75
<i>Morus</i>	<i>rubra</i>	Red mulberry		Medium-Large	Full to partial sun	High					Local	Edible fruit, larger than non-native mulberry	✓	1200	Do not confuse with <i>Morus alba</i> (White mulberry), which is an invasive plant	>1 Inch caliper	5 Ft.	312.5
<i>Nyssa</i>	<i>sylvatica</i>	Black tupelo		Medium-Large	Full to partial sun	High	✓	✓		✓	Local	Striking fall color	✓	1200		1 3/4 - 2 Inch caliper	5 Ft.	312.5
<i>Ostrya</i>	<i>virginiana</i>	Eastern hophornbeam		Medium	Partial sun to shade	Low	✓	✓			Local	Hop-shaped fruit	✓	1200		>1 Inch caliper	3 Ft.	218.75
<i>Pinus</i>	<i>echinata</i>	Shortleaf pine	✓	Medium	Full sun	Low		✓			Local	Evergreen	✓	1200		6-7 Ft. tall	3 Ft.	218.75
<i>Pinus</i>	<i>rigida</i>	Pitch pine	✓	Medium	Full sun	Moderate		✓			Local	Evergreen	✓	1200		6-7 Ft. tall	3 Ft.	218.75
<i>Pinus</i>	<i>taeda</i>	Loblolly pine	✓	Medium	Full sun	Low		✓		✓	Local	Evergreen	✓	1200		6-7 Ft. tall	3 Ft.	218.75
<i>Pinus</i>	<i>virginiana</i>	Virginia pine	✓	Medium	Full sun	Low					Local	Evergreen	✓	1200		6-7 Ft. tall	3 Ft.	218.75
<i>Platanus</i>	<i>occidentalis</i>	American sycamore		Large	Full sun	Any				✓	Local	Large leaves, interesting seeds	✓	1200	Susceptible to anthracnose	2 - 2.5 Inch caliper	5 Ft.	393.75
<i>Prunus</i>	<i>serotina</i>	Black cherry		Medium-Large	Full sun	Low					Local	White flowers	✓	1200		1 3/4 - 2 Inch caliper	5 Ft.	312.5
<i>Quercus</i>	<i>alba</i>	White oak		Large	Full to partial sun	High					Local	Silver-white bark	✓	1200	Provide significant root space for this tree.	1 3/4 - 2 Inch caliper	5 Ft.	393.75
<i>Quercus</i>	<i>bicolor</i>	Swamp white oak		Large	Full to partial sun	High	✓	✓		✓	Local	Attractive peeling bark, multi-colored leaves	✓	1200		1 3/4 - 2 Inch caliper	5 Ft.	393.75
<i>Quercus</i>	<i>coccinea</i>	Scarlet oak		Large	Full sun	Low	✓	✓			Local	Striking fall color	✓	1200		1 3/4 - 2 Inch caliper	5 Ft.	393.75
<i>Quercus</i>	<i>falcata</i>	Southern red oak		Large	Full sun	Low	✓	✓			Local	Striking fall color	✓	1200		1 3/4 - 2 Inch caliper	5 Ft.	393.75
<i>Quercus</i>	<i>hemisphaerica</i>	Darlington oak		Medium-Large	Full sun	Low	✓				Region	Thin, sun-filtering leaves	✓	1200		1 3/4 - 2 Inch caliper	5 Ft.	312.5
<i>Quercus</i>	<i>imbricaria</i>	Shingle oak		Large	Full sun	Moderate	✓				Local	Semi-evergreen	✓	1200		1 3/4 - 2 Inch caliper	5 Ft.	393.75
<i>Quercus</i>	<i>lyrata</i>	Overcup oak		Large	Full to partial sun	High to Moderate	✓				Region	Attractive leaves and fruit	✓	1200		1 3/4 - 2 Inch caliper	5 Ft.	393.75
<i>Quercus</i>	<i>macrocarpa</i>	Bur oak		Large	Full sun	Low	✓	✓			Region	Attractive leaves and fruit	✓	1200	Needs significant rooting space	1 3/4 - 2 Inch caliper	5 Ft.	393.75
<i>Quercus</i>	<i>marilandica</i>	Blackjack oak		Medium	Partial shade	Low					Local	Blocky bark	✓	1200		6-7 Ft. tall	3 Ft.	218.75
<i>Quercus</i>	<i>michauxii</i>	Swamp chestnut oak		Large	Full sun	High					Local	Interesting leaves	✓	1200		1 3/4 - 2 Inch caliper	5 Ft.	393.75
<i>Quercus</i>	<i>montana</i>	Chestnut oak		Large	Full sun	Low					Local	Silver-grey bark	✓	1200		1 3/4 - 2 Inch caliper	5 Ft.	393.75
<i>Quercus</i>	<i>nigra</i>	Water oak		Large	Full to partial sun	High				✓	Region	Evergreen	✓	1200		1 3/4 - 2 Inch caliper	5 Ft.	393.75

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Quercus	<i>pagoda</i>	Cherrybark oak		Large	Full sun	Low					Local	Cherry-like bark	✓	1200		1 3/4 - 2 Inch caliper	5 Ft.	393-75
Quercus	<i>palustris</i>	Pin oak		Medium-Large	Full sun	High	✓			✓	Local	Even form, small acorns	✓	1200		2 - 2.5 Inch caliper	5 Ft.	312.5
Quercus	<i>phellos</i>	Willow oak		Medium-Large	Full sun	Any	✓	✓		✓	Local	Thin, sun-filtering leaves	✓	1200		2 - 2.5 Inch caliper	5 Ft.	312.5
Quercus	<i>rubra</i>	Northern Red oak		Large	Full sun	Low	✓	✓			Local	Striking fall color	✓	1200		2 - 2.5 Inch caliper	5 Ft.	393-75
Quercus	<i>shumardii</i>	Shumard Oak		Large	Full sun	Low	✓	✓			Local	Striking fall color	✓	1200		2 - 2.5 Inch caliper	5 Ft.	393-75
Quercus	<i>stellata</i>	Post oak		Medium-Large	Full sun	Low	✓				Local	Cross-shaped leaves	✓	1200		>1 Inch caliper	5 Ft.	312.5
Quercus	<i>velutina</i>	Black oak		Medium-Large	Full sun	High					Local	Striking fall color	✓	1200		2 - 2.5 Inch caliper	5 Ft.	312.5
Robinia	<i>pseudoacacia</i>	Black locust		Medium	Full sun	Any		✓			Local	Large clusters of white flowers	✓	900		2 - 2.5 Inch caliper	3 Ft.	218.75
Salix	<i>nigra</i>	Black willow		Medium-Large	Full to partial sun	High				✓	Local	Slender leaves	✓	900		2 - 2.5 Inch caliper	5 Ft.	312.5
									✓		Local	Striking fall color, variegated leaves, pleasant fragrance	✓	900		6-7 Ft. tall	3 Ft.	218.75
Sassafras	<i>albidum</i>	Sassafras		Medium	Full to partial sun	Low												
Taxodium	<i>ascendens</i>	Pondcypress		Medium-Large	Full sun	High	✓	✓		✓	Region	Deciduous conifer	✓	1200		2 - 2.5 Inch caliper	5 Ft.	312.5
Taxodium	<i>distichum</i>	Baldcypress		Medium-Large	Full sun	High	✓	✓		✓	Region	Deciduous conifer	✓	1200		2 - 2.5 Inch caliper	5 Ft.	312.5
							✓				Local	White flowers, striking fall color	✓	1200	Use sparingly, in wet areas with significant soil space	2 - 2.5 Inch caliper	5 Ft.	393-75
Tilia	<i>americana</i>	American Linden		Large	Full sun	High												
Tsuga	<i>canadensis</i>	Eastern hemlock	✓	Medium	Partial shade	Moderate					Local	Evergreen	✓	1200	Susceptible to Hemlock woolly adelgid	6-7 Ft. tall	3 Ft.	218.75
							✓	✓		✓	Local	Attractive bark	✓	1200	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	<i>americana</i>	American elm		Large	Full sun	Any												
Ulmus	<i>rubra</i>	Slippery elm		Large	Partial sun to shade	Any					Local	Attractive bark	✓	1200		2 - 2.5 Inch caliper	5 Ft.	393-75