

# Powerline Compatible Street Trees

Genus	Species	Common Name	Type	Mature size (WxH)	Minimum Spacing (Ft.) Along streets	Growth Rate	Light	Street Tree	Pollution Resistant	Limit Use	Powerline Compatible	Native to region	Visual Attraction	Wildlife value	Shade Tree	Suggested Cultivars	Notes for use/Disease susceptibility
<i>Acer</i>	<i>griseum</i>	Paperbark maple	Deciduous small tree	15x20	15	Slow	Full to partial sun	✓			✓		Attractive bark	None			Single-trunked for street trees, multi-trunk in large plantings
<i>Aesculus</i>	<i>pavia</i>	Red buckeye	Deciduous small tree	15x20	15	Medium	Full to partial sun	✓			✓		Prominent red flowers	Low			
<i>Amelanchier</i>	<i>arborea</i>	Downy serviceberry	Deciduous small tree	20x25	15	Slow	Partial sun to shade	✓	✓		✓	✓	White flowers	Moderate			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.
<i>Amelanchier</i>	<i>canadensis</i>	Shadblow serviceberry	Deciduous small tree	15x20	15	Slow	Partial sun to shade	✓	✓		✓	✓	White flowers	Moderate			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 grandiflora 'Autumn brilliance', a hybrid with A. Laevis is also acceptable, and may be more formal.
<i>Carpinus</i>	<i>caroliniana</i>	American hornbeam	Deciduous small tree	20x30	15	Slow	Partial sun to shade	✓			✓	✓	Attractive bark	High			
<i>Cercis</i>	<i>canadensis</i>	Eastern redbud	Deciduous small tree	20x20	15	Medium	Partial sun to shade	✓			✓	✓	Purple flowers	Moderate			Single-trunked for street trees, multi-trunk in large plantings. Can form damaging cankers, which can be controlled by selective pruning.
<i>Chionanthus</i>	<i>virginicus</i>	White fringetree	Deciduous small tree	10x15	15	Slow	Full to partial sun	✓			✓	✓	White flowers	Moderate			Susceptible to Emerald Ash Borer
<i>Cotinus</i>	<i>obovatus</i>	American smoketree	Deciduous small tree	15x20	15	Slow	Full sun	✓			✓		Fluffy white flowers	Moderate			Single-trunked for street trees, multi-trunk in large plantings
<i>Crataegus</i>	<i>phaenopyrum</i>	Washington hawthorn	Deciduous small tree	20x30	15	Medium	Full sun to shade	✓			✓	✓	White flowers	Moderate			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.
<i>Crataegus</i>	<i>viridis</i>	Green hawthorn	Deciduous small tree	20x30	15	Slow	Partial sun to shade	✓	✓		✓	✓	White flowers, striking fall color	Moderate		Winter King	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.
<i>Halesia</i>	<i>carolina</i>	Carolina Silverbell	Deciduous small tree	15x30	15	Medium	Full to partial sun	✓			✓		white bell flowers	Moderate			Single-trunked for street trees, multi-trunk in large plantings
<i>Juniperus</i>	<i>virginiana</i>	Eastern redcedar	Evergreen medium tree	15x40	15	Fast	Full sun	✓	✓		✓	✓	Evergreen	High			Susceptible to cedar-apple rust, which does not affect the overall health of the tree. Can be used as a street tree if limbed up properly
<i>Magnolia</i>	<i>virginiana</i>	Sweetbay magnolia	Evergreen small tree	20x40	15	Medium	Full to partial sun	✓			✓	✓	White flowers	High			Semi-evergreen, depending on the local heat regime. "Henry Hicks" can be used under power lines. Single stem only for street trees.
<i>Magnolia</i>	<i>x Galaxy</i>	Galaxy magnolia	Deciduous small tree	20x30	15	Medium	Full sun	✓	✓		✓		Dark red purple flowers	None			Perfect for narrow, small plantings
<i>Oxydendrum</i>	<i>arboreum</i>	Sourwood	Deciduous medium tree	25x30	15	Slow	Full to partial sun	✓			✓	✓	Striking fall color, Panicked white flowers	Moderate			
<i>Parrotia</i>	<i>persica</i>	Persian parrotia	Deciduous medium tree	30x25	15	Slow	Full to partial sun	✓	✓		✓		Striking bark and fall color	Low			
<i>Planera</i>	<i>aquatica</i>	Water elm	Deciduous small tree	20x20	15	Slow	Full to partial sun	✓	✓		✓		Attractive bark	Low			May be very dry climate-resilient
<i>Prunus</i>	<i>serrulata</i>	Kwanzan cherry	Deciduous small tree	20x20	15	Medium	Full sun	✓		X	✓		Pink flowers	Low		Kwanzan	Limit use due to overplanting
<i>Prunus</i>	<i>x incamp</i>	Okame Cherry	Deciduous small tree	20x20	15	Medium	Full sun	✓		X	✓		Pink flowers	Low			Limit use due to overplanting
<i>Prunus</i>	<i>x yedoensis</i>	Yoshino Cherry	Deciduous small tree	35x35	15	Medium	Full to partial sun	✓		X	✓		White flowers	Low			Limit use due to overplanting
<i>Ptelea</i>	<i>trifoliata</i>	Hoptree	Deciduous small tree	15x15	15	Medium	Full sun to shade	✓	✓		✓		Interesting fruit, striking fall color	Low			
<i>Syringa</i>	<i>reticulata</i>	Tree Lilac	Deciduous small tree	25x15	15	Slow	Full to partial sun	✓		X	✓		Showy flowers	None			
<i>Viburnum</i>	<i>prunifolium</i>	Blackhaw viburnum	Deciduous small tree	15x15	15	Slow	Partial sun to shade	✓	✓		✓	✓	Striking fall color	High	✓		

## Notes:

A list of Small street trees 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 away from their lines. This list contains species that do well in Arlington County, and have been screened to exclude fragile, often hazardous species, as well as ecologically threatening invasive species.

## Glossary:

<b>Genus</b>	A group of plants marked by common characteristics, like Quercus (Oaks), Acer (Maples), or Cornus (Dogwoods)
<b>Species</b>	An individual type of plant, capable of interbreeding within its designation, like Quercus stellata (Post oak), or Tilia americana (American linden)
<b>Common Name</b>	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.
<b>Mature Height</b>	The height a tree of a species can reach, in an ideal environment, usually within 20 years
<b>Growth Rate</b>	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
<b>Light</b>	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
<b>Street Tree</b>	Trees well suited for planting along roads, or in tree pits. Street trees should be limbed up to a safe height, and not obstruct view for traffic.
<b>Pollution Resistant</b>	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.
<b>Limit Use</b>	Restrict the use of these species to less than 10% of your planting list. They have been overplanted, have a disease risk, or have a potential to become invasive
<b>Powerline compatible</b>	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 away from their lines.
<b>Native to Region</b>	Trees native to the Mid-Atlantic. Refer to the Native Plants for Wildlife Habitat and Conservation Landscaping guide by the U.S. Fish and Wildlife Service for more information
<b>Visual Attraction</b>	Interest from the tree that sets it apart from other trees, from an aesthetic perspective.
<b>Wildlife Value</b>	Value in the form of edible fruits, foliage, or bark, for our native insects. Wildlife value should not be confused with attracting large amounts of insects or wildlife, but should be seen as a benefit to our ecosystem.
<b>Shade Tree</b>	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.
<b>Suggested Cultivars</b>	Cultivars of the species that have shown promise in our landscape and provide added aesthetic value

Contact the County Urban Forestry office at urbanforestry@arlingtonva.us for questions

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<http://dendro.cnre.vt.edu/dendrology/syllabus/factsheet.cfm?ID=42>