

Trees appropriate for planting on commercial properties in Falls Church						
Native Deciduous Trees of NOVA & Virginia						
Height Class: 60'+						
Common Name	Botanical Name	Mature Spread	Nursery Availability	Moisture Needs	Shade Tolerance	Soil Notes
Black Maple	<i>Acer nigrum</i>	35-45'	Uncommon	Average to Dry	Full Sun/Part Shade	Greater drought tolerance than sugar maple
Red Maple	<i>Acer rubrum</i>	40-50'	Very common	Moist only	Full Sun	Tolerates extended flooding but not drought; chlorosis may develop on alkaline soil
Sugar Maple	<i>Acer saccharum</i>	25-35'	Very common	Moist	Full Sun/Part Shade	Tolerates alkaline soil; doesn't tolerate extended drought or compacted soil
Kentucky Coffee Tree	<i>Gymnocladus dioicus</i>	45-60'	Uncommon	Moist to Dry	Full Sun/Part Shade	Tolerates clay, loam, and sand; acidic or alkaline soil; drought tolerant
Sweetgum	<i>Liquidambar styraciflua</i>	40-55'	Very common	Moist	Full Sun	Can tolerate moderate drought and slightly alkaline soils; extended flooding
Tupelo	<i>Nyssa sylvatica</i>	25-35'	Very common	Moist to Dry	Full Sun/Part Shade	Withstands drought and extended flooding; doesn't tolerate high pH
White Oak	<i>Quercus alba</i>	60-80'	Very common	Average to Dry	Full Sun/Part Shade	Prefers well drained acidic soil; can tolerate occasionally wet
Swamp White Oak	<i>Quercus bicolor</i>	60-70'	Very common	Moist to Dry	Full Sun/Part Shade	Needs acidic soils or will show severe chlorosis; tolerates extended flooding and drought
Scarlet Oak	<i>Quercus coccinea</i>	40-50'	Very common	Dry	Full Sun/Part Shade	Should be grown on acidic soils; adapts to compacted soils
Cherry Bark Oak	<i>Quercus pagoda</i>	60-70'	Uncommon	Average to Dry	Part Shade/Full Sun	Well drained acidic soil; does not tolerate poor drainage
Pin Oak	<i>Quercus palustris</i>	35-40'	Very common	Moist to Dry	Part Shade/Full Shade	Very intolerant of high pH; tolerant of compaction and wet soils
Willow Oak	<i>Quercus phellos</i>	40-50'	Very common	Moist to Dry	Full Sun/Part Shade	Tolerates extended flooding, drought and compacted soil; chlorosis on high pH
Northern Red Oak	<i>Quercus rubra</i>	50-60'	Very common	Average to Dry	Full Sun/Part Shade	Tolerates slightly alkaline soils; moderately drought-tolerant; well drained
American Elm 'cultivars'*	<i>Ulmus americana</i> 'Princeton', 'Valley Forge', 'New Harmony'	50-70'	Very common	Average	Full Sun/Part Shade	Acidic to slightly alkaline soils; moderate drought tolerance

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Native Evergreen Trees of NoVA & Virginia

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Common Name	Botanical Name		Nursery Availability	Moisture Needs	Shade Tolerance	Soil Notes
Loblolly Pine	<i>Pinus taeda</i>	30-35'	Somewhat common	Dry to Average	Full Sun/Part Shade	Needs acidic soil; drought-tolerant once established
Baldcypress	<i>Taxodium distichum</i>	25-35'	Very common	Moist	Full Sun/Part Shade	Ideal for wet locations but highly drought tolerant; Slight alkaline tolerance

Native Deciduous Trees of NOVA & Virginia

Height Class: 30-60'

Common Name	Botanical Name		Nursery Availability	Moisture Needs	Shade Tolerance	Soil Notes
River Birch	<i>Betula nigra</i>	25-35'	Very common	Moist to Average	Full Sun	Needs acidic soil or becomes chlorotic; tolerates flooding but not drought
Hackberry	<i>Celtis occidentalis</i>	40-50'	Somewhat common	Moist to Average	Part Shade/Full Shade	acidic and alkaline soil; extended flooding and drought; soil compaction
Yellowwood	<i>Cladrastis kentuckea</i>	40-50'	Somewhat common	Average	Full Sun/Part Shade	Tolerant of alkaline and acidic soils; occasionally wet and moderate drought tolerance; tolerates compaction
Honeylocust	<i>Gleditsia triacanthos</i>	35-50'	Very common	Moist to Dry	Full Sun	Tolerates compaction; acidic and alkaline soil; occasionally wet and highly drought tolerant
Silverbell	<i>Halesia tetraptera</i> var. <i>tetraptera</i>	15-20'	Uncommon	Moist	Full Sun/Part Shade	Does not tolerate drought and become chlorotic in high pH
Sweetbay Magnolia	<i>Magnolia virginiana</i>	15-25'	Very common	Moist to Dry	Part Shade/Full Shade	Drought and extended flooding tolerance
Hophornbeam	<i>Ostrya virginiana</i>	25-30'	Uncommon	Moist to Average	Part Shade/Full Shade	High drought tolerance and can grow on acidic or alkaline soils; does not tolerate wet soils
Sourwood	<i>Oxydendrum arboreum</i>	25-30'	Somewhat common	Moist	Full Sun/Part Shade	Does best on moist, well drained soil; moderately drought tolerant
Shumard Oak	<i>Quercus shumardii</i>	40-50'	Uncommon	Moist	Full Sun/Part Shade	Alkaline soils; occasionally wet; high drought tolerance; tolerates compaction
Black Locust	<i>Robinia pseudoacacia</i>	25-35'	Somewhat common	Moist	Full Sun/Part Shade	Tolerates drought, salt, acidic and alkaline soils; does not tolerate permanently wet sites

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Common Name	Botanical Name		Nursery Availability	Moisture Needs	Shade Tolerance	Soil Notes
American Holly	<i>Ilex opaca</i>	15-25'	Very common	Moist to Average	Full Sun/Full Shade	Slight alkaline tolerance; high drought and occasionally wet
Eastern Red Cedar	<i>Juniperus virginiana</i>	10-20'	Very common	Average to Dry	Full Sun/Part Shade	Not tolerant of sites that are continually moist; drought and alkaline soil tolerant
Northern White-Cedar	<i>Thuja occidentalis</i>	10-15'	Very common	Dry to Moist	Full Sun/Part Shade	Tolerates alkaline soils; can tolerate wet soils but not extended drought

Native Deciduous Trees of NOVA & Virginia

Height Class: <30'

Common Name	Botanical Name		Nursery Availability	Moisture Needs	Shade Tolerance	Soil Notes
Red Buckeye	<i>Aesculus pavia</i>	15-25'	Uncommon	Average to Moist	Part Shade/Full Shade	Moderate drought tolerance; can stand extended flooding
Serviceberry spp.	<i>Amelanchier spp.</i>	15-20'	Very common	Average to Dry	Full Sun/Part Shade	Moderate drought tolerance; needs acidic soil
American Hornbeam	<i>Carpinus caroliniana</i>	20-30'	Somewhat common	Moist to Average	Part Shade/Full Shade	Moderately drought tolerant; occasionally wet; only slightly alkaline tolerant
Eastern Redbud	<i>Cercis canadensis</i>	15-25'	Very common	Average to Dry	Part Shade/Full Shade	Tolerates alkaline and occasionally we soil; high drought tolerance
American Fringetree	<i>Chionanthus virginicus</i>	15-20'	Very common	Moist to Average	Full Sun/Part Shade	Tolerates occasionally wet soil; moderate drought tolerance

Trees appropriate for planting on commercial properties in Falls Church

The following non-native trees may also be planted on commercial sites with approval from the City Arborist

Deciduous Non-Invasive Exotic Trees – those native to **North America** are in bold type

Height Class: 60'+

Common Name	Botanical Name		Nursery Availability	Moisture Needs	Shade Tolerance	Soil Notes
Ginkgo	<i>Ginkgo biloba</i>	15-20'	Very common	Dry to Moist	Full Sun	Tolerates drought, occasionally wet and alkaline soils; not for poorly drained area
Southern Magnolia	<i>Magnolia grandiflora</i>	30-50'	Very common	Dry to Moist	Full Sun/Part Shade	Can tolerate slightly alkaline soils and extended flooding but does best on well drained soil; moderate drought tolerance
Dawn Redwood	<i>Metasequoia glyptostroboides</i>	15-25'	Very common	Moist	Full Sun	Do not use on soils with high pH; moderate drought tolerance and extended flooding
London Plane Tree	<i>Platanus x acerifolia</i>	50-70'	Very common	Average	Full Sun	Tolerates extended flooding, drought and alkaline soil and compaction
Bur Oak	<i>Quercus macrocarpa</i>	60-80'	Somewhat common	Dry to Moist	Full Sun/Part Shade	Tolerant of alkaline soils and poor drainage; very drought tolerant
Silver Linden	<i>Tilia tomentosa</i>	40-60'	Uncommon	Average to Moist	Full Sun/Part Shade	Moderately tolerant of soil compaction and drought; slightly alkaline soils
Elm Hybrids	<i>Ulmus spp.</i> ; 'New Horizon', 'Morton', 'Morton Glossy', 'Patriot', 'Morton Plainsman'	50-70'	Very common	Average	Full Sun/Part Shade	Tolerant of extended flooding, drought, pH, and compaction
Japanese Zelkova	<i>Zelkova serrata</i>	50-75'	Very common	Moist	Full Sun/Part Shade	High drought tolerance; tolerates occasionally wet and slightly alkaline soils

Height Class: 30-60'

Common Name	Botanical Name		Nursery Availability	Moisture Needs	Shade Tolerance	Soil Notes
Trident maple	<i>Acer buergerianum</i>	20-40'	Somewhat common	Average to Moist	Full Sun/Part Shade	Does not tolerate alkaline soil; tolerates compacted soil and drought
Katsuratree	<i>Cercidiphyllum japonicum</i>	35-60'	Somewhat common	Moist	Full Sun/Part Shade	Intolerant of drought; not suited for compacted soils; slight alkaline tolerance
Bigleaf Magnolia	<i>Magnolia macrophylla</i>	20-30'	Uncommon	Moist	Full Sun/Part Shade	Not tolerant of wet soil or drought; tolerates slightly alkaline soils
Persian Ironwood	<i>Parrotia persica</i>	20-35'	Somewhat common	Average to Moist	Full Sun/Part Shade	High drought tolerance and adapts to alkaline soil; will not tolerate wet soil conditions

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Paperbark Maple	<i>Acer griseum</i>	15-25'	Somewhat common	Moist	Full Sun/Part Shade	Does not tolerate extended drought; will tolerate slightly alkaline soil
Shantung Maple	<i>Acer truncatum</i>	20-30'	Uncommon	Dry to Moist	Full Sun	Drought tolerant
Japanese Hornbeam	<i>Carpinus japonica</i>	10-15'	Uncommon	Average to Moist	Full Sun/Part Shade	Moderate drought tolerance
Kousa Dogwood	<i>Cornus kousa</i>	15-20'	Very common	Average to Moist	Full Sun/Part Shade	Not alkaline tolerant; soil should be kept moist
Cornelian Cherry Dogwood	<i>Cornus mas</i>	12-18'	Somewhat common	Average to Moist	Full Sun/Part Shade	Soil should be kept moist; alkaline tolerant
Hawthorn	<i>Crataegus crusgalli</i> var. <i>inermis</i> , <i>C. nitida</i> , <i>C.phaenopyrum</i> , <i>C. viridis</i>	15-25'	Very common	Moist	Full Sun/Part Shade	Tolerant of alkaline soil and drought
Crapemyrtle	<i>Lagerstroemia indica</i>	15-25'	Very common	Moist to Dry	Full Sun/Part Shade	Tolerant of acidic to alkaline soils; highly drought tolerant
Star Magnolia	<i>Magnolia stellata</i>	15-25'	Somewhat common	Moist	Part Shade/Full Shade	Intolerant of root competition and drought.
Saucer Magnolia	<i>Magnolia x soulangiana</i>	25-35'	Somewhat common	Moist	Full Sun/Part Shade	Tolerates poor drainage for a short period of time; intolerant of drought and alkaline soil
Crabapple	<i>Malus</i> spp., 'Adirondack', 'Prairifire', 'Professor Sprenger', 'Louisa', 'Sutyzam', <i>M.sargentii</i>	20-35'	Very common	Average to Dry	Full Sun/Part Shade	Tolerates drought, poor drainage and alkaline soils