

# Large Tree Notes

- A. Plant large trees 50 feet away from utility lines
- B. Plant large trees 30 to 40 feet away from buildings
- C. Plant large trees 30 to 40 feet away from other large trees
- D. Recommended root space is approximately 250 square feet of lawn

## LARGE TREE GROUP: Mature Height More than 50' tall and more

	Form	Growth Rate	Aesthetic Flowers	Fall Color	Recommended Street Tree	Urban Areas***	Wet Tolerant	Drought Tolerant	Shade Tolerant	Special Considerations
Red Maple* ( <i>Acer rubrum</i> )	Rounded to Oval**	Medium	Yes	Red	Minimal Use	No	Yes	No	Intermediate	Girdling roots; over utilized
Sugar Maple* ( <i>Acer saccharum</i> )	Rounded**	Medium to Slow	No	Yellow	Minimal Use	No	No	No	Yes	Girdling roots; over utilized
Yellow Buckeye* ( <i>Aesculus flava</i> )	Rounded	Medium to Fast	Yes	Orange	Minimal Use	No	Intermediate	No	Yes	Not widely available
Pecan* ( <i>Carya illinoensis</i> )	Oval	Medium	No	Yellow	No	No	Intermediate	Yes	No	Difficult to transplant; cross pollination needed for nuts
Common Hackberry* ( <i>Celtis occidentalis</i> )	Pyramidal to Round	Medium to Fast	No	Yellow	No	No	No	Yes	Intermediate	Poor structural issues; sooty mold issues
American Beech* ( <i>Fagus grandifolia</i> )	Round to Open	Slow	No	Bronze	No	No	No	No	Yes	Scale issues
European Beech ( <i>Fagus sylvatica</i> )	Upright to Oval**	Slow to Medium	No	Bronze	Minimal Use	No	No	No	Intermediate	Under utilized
Ginkgo ( <i>Ginkgo biloba</i> )	Pyramidal to Round**	Medium	No	Yellow	Yes	Yes	No	Yes	No	Female trees produce offensive fruit
Thornless Honeylocust* ( <i>Gleditsia triacanthos</i> )	Round	Medium to Fast	No	Yellow	Yes	Yes	No	Yes	No	Leaf Miner; Southern range of this species
Kentucky Coffeetree* ( <i>Gymnocladus dioica</i> )	Oval to Open**	Slow to Medium	No	Yellow	Yes	Yes	No	Yes	No	Produces seed pods
Sweetgum* ( <i>Liquidambar styraciflua</i> )	Pyramidal to Oval	Medium to Fast	No	Various	Yes	No	Yes	No	No	Surface roots; produces nuisance fruit
Tulip Poplar* ( <i>Liriodendron tulipifera</i> )	Pyramidal to Oval	Fast	Yes	Yellow	Yes	No	No	No	No	Aphid issue; constant leaf drop
Cucumber tree Magnolia ( <i>Magnolia acuminata</i> )	Pyramidal to Spreading	Medium to Fast	Yes	Brown	Minimal Use	No	No	No	Intermediate	Not widely available
Southern Magnolia* ( <i>Magnolia grandiflora</i> )	Pyramidal**	Slow to Medium	Yes	Evergreen	No	No	No	Yes	Intermediate	Large leathery leaf drop in Spring; Large seed pods
Dawn Redwood ( <i>Metasequoia glyptostroboides</i> )	Pyramidal**	Medium to Fast	No	Yellow	Yes	No	No	No	No	Carefree tree
Blackgum* ( <i>Nyssa sylvatica</i> )	Pyramidal	Slow to Medium	No	Various	Yes	No	Yes	No	Intermediate	Messy fruit; great wildlife tree
Shortleaf Pine* ( <i>Pinus echinata</i> )	Conical to Oval	Medium	No	Evergreen	No	No	No	Yes	No	Not widely available
Pitch Pine* ( <i>Pinus rigida</i> )	Conical to Oval	Medium	No	Evergreen	No	No	No	Yes	No	Not widely available
White Pine* ( <i>Pinus strobus</i> )	Conical to Oval**	Medium to Fast	No	Evergreen	No	No	No	No	Intermediate	Short-lived in urban environments
Loblolly Pine* ( <i>Pinus taeda</i> )	Conical to Oval	Fast	No	Evergreen	No	No	Intermediate	Yes	No	Produces large cones
Virginia Pine* ( <i>Pinus virginiana</i> )	Conical to Open	Slow	No	Evergreen	No	No	No	Yes	No	Poor structural issues
London Planetree ( <i>Platanus X acerifolia</i> )	Pyramidal to Open	Medium	No	Yellow	Yes	Yes	No	No	Intermediate	Susceptible to Bacterial Leaf Scorch
American Sycamore* ( <i>Platanus occidentalis</i> )	Pyramidal to Open	Medium to Fast	No	Yellow	No	No	Yes	No	Intermediate	Susceptible to Bacterial Leaf Scorch
Sawtooth Oak ( <i>Quercus acutissima</i> )	Round	Medium	No	Yellow	Yes	Yes	No	Yes	No	Produces many acorns
White Oak* ( <i>Quercus alba</i> )	Round to Spreading	Slow to Medium	No	Red	Minimal Use	No	No	No	No	Difficult to transplant
Swamp White Oak* ( <i>Quercus bicolor</i> )	Round	Medium	No	Yellow	Yes	No	Yes	Yes	No	Grows in both dry and wet conditions
Southern Red Oak* ( <i>Quercus falcata</i> )	Spreading	Slow to Medium	No	Red	No	No	No	No	No	Not widely available; keeps leaves through Winter
Bur Oak* ( <i>Quercus macrocarpa</i> )	Round to Spreading	Slow	No	Yellow	Minimal Use	No	No	Yes	No	Produces large acorns
Swamp Chestnut Oak* ( <i>Quercus michauxii</i> )	Round	Medium	No	Orange	No	No	Yes	No	No	Not widely available
Chinkapin Oak* ( <i>Quercus muehlenbergii</i> )	Round	Slow to Medium	No	Indistinct	Minimal Use	No	No	No	No	Not widely available
Nuttall Oak ( <i>Quercus nuttallii</i> )	Pyramidal to Rounded	Medium to Fast	No	Red	Yes	Yes	Yes	Yes	No	Possibly susceptible to Bacterial Leaf Scorch
Pin Oak* ( <i>Quercus palustris</i> )	Pyramidal to Rounded	Medium to Fast	No	Various	No	No	Yes	No	No	Susceptible to Bacterial Leaf Scorch
Willow Oak* ( <i>Quercus phellos</i> )	Pyramidal to Rounded**	Medium	No	Yellow	Yes	Yes	Yes	Yes	No	Chlorosis problems in high pH
Chestnut Oak* ( <i>Quercus prinus</i> )	Rounded	Medium	No	Orange	Yes	No	No	Yes	No	Not widely available in nurseries
English Oak ( <i>Quercus robur</i> )	Upright to Round**	Slow to Medium	No	Indistinct	Minimal Use	No	No	No	No	Tendency to have irregular growth form
Northern Red Oak* ( <i>Quercus rubra</i> )	Rounded	Medium to Fast	No	Red	Yes	No	No	No	No	Carefree tree
Shumard Oak* ( <i>Quercus shumardii</i> )	Rounded	Medium	No	Red	Minimal Use	Yes	No	Yes	No	Carefree tree
Black Oak* ( <i>Quercus velutina</i> )	Round to Open	Slow to Medium	No	Red	Minimal Use	No	No	Yes	No	Not widely available
Bald Cypress* ( <i>Taxodium distichum</i> )	Pyramidal**	Medium	No	Orange	Yes	Yes	Yes	No	No	Produce round cones
American Basswood* ( <i>Tilia americana</i> )	Pyramidal to Rounded	Medium	No	Indistinct	Minimal Use	No	No	No	Intermediate	Good Pollinator
Winged Elm* ( <i>Ulmus alata</i> )	Vaseshape to Round	Medium	No	Yellow	Minimal Use	No	No	No	No	Not widely available
American Elm* ( <i>Ulmus americana</i> )	Vaseshape	Medium to Fast	No	Yellow	Yes	Yes	Yes	Yes	Intermediate	Need Dutch Elm resistant cultivars

\* Native to Tennessee

\*\* Some cultivars are recommended to plant next to buildings

\*\*\*These trees are recommended for downtown planting spaces and wells

# Medium Tree Notes

- A. Plant medium trees 20 to 50 feet away from utility lines
- B. Plant medium trees 20 to 30 feet away from buildings
- C. Plant medium trees 20 to 30 feet away from other medium trees
- D. Recommended root space is approximately 166 square feet of lawn

## MEDIUM TREE GROUP: Mature Height 30' - 50'

	Form	Growth Rate	Aesthetic Flowers	Fall Color	Recommended Street Tree	Urban Areas***	Wet Tolerant	Drought Tolerant	Shade Tolerant	Special Considerations
Hedge Maple ( <i>Acer campestre</i> )	Round to Oval	Slow	No	Yellow	Yes	Yes	No	Yes	Intermediate	Heavy fruiting
Trident Maple ( <i>Acer buergerianum</i> )	Round to Oval**	Slow to Medium	No	Orange	Yes	Yes	No	Yes	No	Heavy fruiting
Chalkbark Maple ( <i>Acer leucoderme</i> )	Round to Oval	Slow to Medium	No	Orange	Minimal Use	No	No	Yes	Yes	Not widely available
Shuntung Maple ( <i>Acer truncatum</i> )	Round	Slow	No	Yellow	Yes	Yes	No	Yes	No	Not widely available
River Birch* ( <i>Betula nigra</i> )	Pyramidal to Round**	Medium to Fast	No	Yellow	Minimal Use	No	Yes	No	No	Aphids; over used
European Hornbeam ( <i>Carpinus betulus</i> )	Upright to Oval	Slow to Medium	No	Yellow	Yes	Yes	No	No	Intermediate	Used for tight spaces
American Hornbeam* ( <i>Carpinus caroliniana</i> )	Oval	Slow	No	Various	Yes	No	Intermediate	No	Intermediate	Used for tight spaces
Catalpa* ( <i>Catalpa speciosa</i> )	Oval	Medium to Fast	Yes	Indistinct	Minimal Use	No	No	Yes	Intermediate	Large seed pods; Catalpa Worms
Atlas Cedar ( <i>Cedrus atlantica</i> )	Pyramidal**	Slow	No	Evergreen	No	No	No	No	Intermediate	Carefree tree
Deodar Cedar ( <i>Cedrus deodara</i> )	Pyramidal	Medium	No	Evergreen	No	No	No	No	No	Northern range of this species
Atlantic White Cedar ( <i>Chamaecyparis thyoides</i> )	Pyramidal to Upright	Medium	No	Evergreen	No	No	Intermediate	No	No	Not widely available
Yellowwood* ( <i>Cladrastis kentukea</i> )	Round**	Medium	Yes	Yellow	Yes	Yes	No	No	No	Short-lived tree
Turkish Fibert ( <i>Corylus colurna</i> )	Pyramidal	Medium	No	Indistinct	Yes	Yes	No	Yes	No	Not widely available
Cryptomeria ( <i>Cryptomeria japonica</i> )	Pyramidal**	Medium	No	Evergreen	No	No	No	No	Intermediate	Carefree tree
American Persimmon* ( <i>Diospyros virginiana</i> )	Oval	Slow to Medium	No	Yellow	Minimal Use	No	No	No	No	Messy fruit; cross pollination required for fruit
Hardy Rubber Tree ( <i>Eucommia ulmoides</i> )	Round	Medium	No	Indistinct	Yes	Yes	No	Yes	Intermediate	Not widely available
American Holly* ( <i>Ilex opaca</i> )	Pyramidal**	Slow to Medium	No	Evergreen	Minimal Use	No	No	No	Yes	Under utilized
Eastern Red Cedar* ( <i>Juniperus virginiana</i> )	Upright to Oval	Medium	No	Evergreen	No	No	No	Yes	No	Can be difficult to transplant; Cedar Apple Rust
Golden Raintree ( <i>Koelreuteria paniculata</i> )	Round	Medium to Fast	Yes	Yellow	Yes	Yes	No	Yes	No	Messy
Sweetbay Magnolia* ( <i>Magnolia virginiana</i> )	Upright to Open	Medium	Yes	Yellow	No	No	Yes	No	Yes	Under utilized
Eastern Hophornbeam* ( <i>Ostrya virginiana</i> )	Pyramidal to Round**	Slow	No	Yellow	Yes	Yes	Intermediate	No	Yes	Not widely available
Sourwood* ( <i>Oxydendrum arboreum</i> )	Pyramidal to Oval	Slow	Yes	Various	Minimal Use	No	No	No	Intermediate	Difficult to transplant
Austrian Pine ( <i>Pinus nigra</i> )	Pyramidal	Medium	No	Evergreen	No	No	No	Yes	No	Diplodia Tip Blight
Japanese Red Pine ( <i>Pinus densiflora</i> )	Upright to Open	Slow to Medium	No	Evergreen	No	No	No	No	No	Not widely available
Chinese Pistache ( <i>Pistacia chinensis</i> )	Round	Medium	No	Orange	Yes	Yes	No	Yes	No	Carefree tree
Overcup Oak* ( <i>Quercus lyrata</i> )	Round to Spreading	Medium	No	Yellow	Yes	Yes	Intermediate	Yes	No	Slow to leaf out; chlorosis issue with high pH
Black Locust* ( <i>Robinia pseudoacacia</i> )	Upright to Oval	Fast	Yes	Indistinct	No	No	No	Yes	No	Great pollinator tree; Mimosa Webworm
Weeping Willow ( <i>Salix babylonica</i> )	Round to Weeping	Fast	No	Indistinct	No	No	Yes	Yes	No	Messy; many pest problems
Sassafras* ( <i>Sassafras albidum</i> )	Oval to Open	Medium to Fast	Yes	Various	No	No	No	No	No	Not widely available; Laurel Wilt
Japanese Pagoda ( <i>Sophora japonica</i> )	Upright to Spreading	Medium to Fast	Yes	Indistinct	Yes	Yes	No	Yes	No	Not widely available; messy
Little-leaf Linden ( <i>Tilia cordata</i> )	Pyramid to Oval	Medium	No	Yellow	No	No	No	Yes	No	Often too deep in the rootball; Japanese Beetles
Silver Linden ( <i>Tilia tomentosa</i> )	Pyramid to Oval	Medium	No	Yellow	Yes	Yes	No	Yes	No	Southern end of this species range
Smooth Leaf Elm ( <i>Ulmus carpinifolia</i> )	Upright to Spreading	Medium	No	Yellow	Yes	Yes	No	No	No	Not widely available
Lace-bark Elm ( <i>Ulmus parvifolia</i> )	Vaseshape to Spreading**	Medium to Fast	No	Yellow	Yes	Yes	No	Yes	No	High pruning maintenance
Zelkova ( <i>Zelkova serrata</i> )	Vaseshape**	Medium	No	Various	Yes	Yes	No	No	No	Difficult form to control

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\*\* Some cultivars are recommended to plant next to buildings

\*\*\*These trees are recommended for downtown planting spaces and wells

# Small Tree Notes

- A. Plant small trees 10 to 20 feet away from utility lines
- B. Plant small trees 10 feet away from buildings
- C. Plant small trees 10 to 20 feet away from other small trees
- D. Recommended root space is approximately 40 square feet of lawn
- E. Most small growth trees are suitable for planting near overhead utility lines; but may still need to be pruned if they grow into utility safety zones

## SMALL TREE GROUP: Mature Height Less than 30'

	Form	Growth Rate	Aesthetic Flowers	Fall Color	Recommended Street Tree	Urban Areas***	Wet Tolerant	Drought Tolerant	Shade Tolerant	Special Considerations
Amur Maple ( <i>Acer ginnala</i> )	Variable	Slow	Yes	Yellow	Minimal Use	No	No	No	Intermediate	Short-lived tree
Paperbark Maple ( <i>Acer griseum</i> )#	Upright to Oval	Slow	No	Red	Minimal Use	Yes	No	No	Intermediate	Variability in bark color
Japanese Maple ( <i>Acer palmatum</i> )#	Variable	Slow to Medium	No	Red	No	No	No	No	Yes	Wide variation in cultivars
Red Buckeye* ( <i>Aesculus pavia</i> )	Round	Medium	Yes	Indistinct	Minimal Use	No	No	No	Yes	Not widely available; Early leaf drop
Serviceberry* ( <i>Amelanchier</i> spp.)#	Variable	Medium	Yes	Various	Minimal Use	No	Intermediate	No	Intermediate	Rust problems
Pawpaw* ( <i>Asimina triloba</i> )!	Pyramidal to Upright	Medium	No	Yellow	No	No	No	No	Yes	Not widely available
Eastern Redbud* ( <i>Cercis canadensis</i> )#!	Round to Spreading	Medium	Yes	Yellow	Yes	Yes	No	Yes	Intermediate	Verticillium Wilt; structural issues
Chinese Fringetree ( <i>Chionanthus retusus</i> )#	Round to Spreading	Slow	Yes	Yellow	Minimal Use	No	No	No	Intermediate	Very few problems
American Fringetree* ( <i>Chionanthus virginicus</i> )#	Round to Spreading	Slow	Yes	Yellow	Minimal Use	No	No	No	Intermediate	Very few problems
Pagoda Dogwood ( <i>Cornus alternifolia</i> )	Spreading	Slow to Medium	Yes	Purple	Minimal Use	No	No	No	Yes	Under utilized; not widely available
Flowering Dogwood* ( <i>Cornus florida</i> )#!	Spreading	Medium	Yes	Purple	Minimal Use	No	No	No	Yes	Powdery mildew; Spot Anthracnose; borer issues
Kousa Dogwood ( <i>Cornus kousa</i> )#	Vaseshape to Round	Slow	Yes	Red	Minimal Use	Yes	No	Yes	Yes	Tend to be deep in the rootball
Corneliancherry Dogwood ( <i>Cornus mas</i> )	Oval to Round	Medium	Yes	Indistinct	Minimal Use	No	No	No	Intermediate	Under utilized; not widely available
European Smoketree ( <i>Cotinus coggygria</i> )	Upright to Spreading	Medium	Yes	Various	Minimal Use	No	No	No	No	Under utilized; not widely available
American Smoketree* ( <i>Cotinus obovatus</i> )#	Upright to Oval	Medium	Yes	Various	Minimal Use	No	No	No	No	Under utilized; not widely available
Cockspur Hawthorn ( <i>Crataegus crusgalli</i> )	Round to Spreading	Slow to Medium	Yes	Bronze	Minimal Use	Yes	No	No	No	Rust problems
Washington Hawthorn ( <i>Crataegus phaenopyrum</i> )	Oval to Rounded	Slow to Medium	Yes	Various	Minimal Use	No	No	No	No	Rust problems
Green Hawthorn ( <i>Crataegus viridis</i> )	Round to Spreading	Slow to Medium	Yes	Scarlet	Minimal Use	No	No	No	No	Rust problems
Carolina Silverbell* ( <i>Halesia tetraptera</i> )!	Round	Medium	Yes	Yellow	Minimal Use	No	No	No	Intermediate	Under utilized; not widely available
Witch-hazel* ( <i>Hamamelis virginiana</i> )	Round to Open	Medium	Yes	Yellow	No	No	No	No	Intermediate	Under utilized
Foster Holly ( <i>Ilex x attenuata</i> 'Fosteri')	Pyramidal to Upright	Slow	No	Evergreen	No	No	No	No	Intermediate	Carefree tree; messy
Amur Maackia ( <i>Maackia amurensis</i> )#	Round to Spreading	Slow	Yes	Indistinct	Yes	Yes	No	Yes	No	Not widely available
'Little Gem' Magnolia ( <i>Magnolia grandiflora</i> )#	Upright to Oval	Slow	Yes	Evergreen	Yes	No	Intermediate	No	Intermediate	Messy
Flowering Crabapple ( <i>Malus</i> spp.)!	Round	Medium to Fast	Yes	Yellow	Yes	No	No	No	No	Rust and Fireblight Issues; early defoliation
Persian Ironwood ( <i>Parrotia persica</i> )#	Upright to Oval	Medium	Yes	Yellow	Yes	Yes	No	Yes	Intermediate	Not widely available
Oriental Cherries ( <i>Prunus serrulata</i> )#	Variable	Medium	Yes	Various	Yes	Yes	No	Yes	No	Bagworms; borers; short-lived tree
Mountain Stewartia ( <i>Stewartia ovata</i> )	Round to Oval	Slow	Yes	Orange	No	No	No	No	Intermediate	Not widely available
Chinese Stewartia ( <i>Stewartia sinensis</i> )	Round to Oval	Slow	Yes	Red	No	No	No	No	Intermediate	Not widely available
Rusty Blackhaw* ( <i>Viburnum rufidulum</i> )	Oval to Open	Medium	Yes	Burgundy	No	No	Intermediate	Yes	Yes	Not widely available

\* Native to Tennessee

\*\*\* These trees are recommended for downtown planting spaces and wells

# Recommended for narrow planting areas (single stem only)

! Some cultivars may grow over 30 feet in height

# Fruit Tree Notes

- A. Plant all trees 10 to 20 feet away from utility lines
- B. Fruit trees need extra care to maintain edible fruits
- C. Additional material should be reviewed through your local agricultural extension agency

## FRUIT and NUT TREE GROUP: Edible Trees that can grow in Tennessee

Species	Form	Growth Rate	Aesthetic Flowers	Fall Color	Recommended Street Tree	Suitable Near Utility Lines**	Wet Tolerant	Drought Tolerant	Shade Tolerant
Serviceberry* ( <i>Amelanchier</i> spp.)	Variable	Medium	Yes	Various	Minimal Use	Yes	Intermediate	No	Intermediate
Pawpaw* ( <i>Asimina triloba</i> )	Pyramidal to Upright	Medium	No	Yellow	No	No	No	No	Yes
Pecan* ( <i>Carya illinoensis</i> )	Oval	Medium	No	Yellow	No	No	Intermediate	Yes	No
Chinese chestnut ( <i>Castanea mollissima</i> )	Round	Slow to Medium	No	Yellow	Yes	No	No	Intermediate	Intermediate
American hazelnut* ( <i>Corylus americana</i> )	Variable	Medium to Fast	No	Indistinct	Yes	Yes	No	No	Intermediate
Turkish Fibert ( <i>Corylus colurna</i> )	Pyramidal	Medium	No	Indistinct	Yes	No	No	Yes	No
American Persimmon* ( <i>Diospyros virginiana</i> )	Oval	Slow to Medium	No	Yellow	Minimal Use	No	No	No	No
Japanese Persimmon ( <i>Diospyros kaki</i> )	Round to Spreading	Medium	No	Various	Minimal Use	No	No	No	No
Ginkgo ( <i>Ginkgo biloba</i> )	Pyramidal to Round	Medium	No	Yellow	Minimal Use	No	No	Yes	no
Black walnut* ( <i>Juglans nigra</i> )	Round to Spreading	Medium	No	Yellow	Minimal Use	No	No	Yes	No
Edible apple ( <i>Malus pumila</i> )	Variable	Medium	Yes	Yellow	Minimal Use	Yes	No	No	No
White mulberry ( <i>Morus alba</i> )	Variable	Medium to Fast	Yes	Yellow	Minimal Use	No	No	Yes	Intermediate
Red mulberry* ( <i>Morus rubra</i> )	Variable	Fast	Yes	Yellow	Minimal Use	No	No	Yes	Intermediate
American plum* ( <i>Prunus americana</i> )	Spreading	Medium	Yes	Red	Yes	Yes	No	Yes	No
Chickasaw plum ( <i>Prunus angustifolia</i> )	Spreading	Medium	Yes	Red	Yes	Yes	No	Intermediate	No
Sweet cherry ( <i>Prunus avium</i> )	Round to Spreading	Medium	Yes	Yellow	Yes	Yes	No	Intermediate	No
Sour cherry ( <i>Prunus cerasus</i> )	Round to Spreading	Medium	Yes	Yellow	Yes	Yes	No	Intermediate	No
Common peach ( <i>Prunus persica</i> )	Round to Spreading	Medium	Yes	Yellow	Minimal Use	Yes	No	No	No
Common pear ( <i>Pyrus communis</i> )	Upright	Medium	Yes	Red	Minimal Use	No	No	No	No

\* Native to Tennessee

\*\*All trees should be planted at least 20 feet from under utility lines if possible

# Trees for Screening Purposes Notes

- A. Several of these trees have many cultivars that may not be suitable for screening purposes, suggested cultivars are included
- B. Spacing and other characteristics are based on recommended cultivars
- C. Additional material should be reviewed through your local agricultural extension agency and utility provider

**TREES for SCREENING PURPOSES: Trees that can be planted for sound, wind, or sight barriers in East Tennessee**

Species	Cultivars	Form	Growth Rate	Height	Spacing for Screen	Deciduous/ Evergreen	Recommended for Under Utilities	Wet Tolerant	Drought Tolerant	Shade Tolerant
Japanese Maple ( <i>Acer palmatum</i> )	Several cultivars	Variable	Slow to Moderate	Less than 30 ft	8-10 Feet	Deciduous	Yes	No	No	Yes
European hornbeam ( <i>Carpinus betulus</i> )	Frans Fontaine, Fastigiata	Columnar	Slow to Moderate	30 to 50 ft	6-8 Feet	Deciduous	No	No	Yes	Intermediate
Hinoki Falsecypress ( <i>Chamaecyparis obtusa</i> )	Several cultivars	Narrow or Pyramidal	Moderate	30 to 50 ft	5-10 Feet	Evergreen	Some varieties	No	No	No
Alaska-cedar ( <i>Chamaecyparis nootkatensis</i> )	Several cultivars	Narrow or Pyramidal	Moderate	30 to 50 ft	5-10 Feet	Evergreen	No	No	No	No
Sawara falsecypress ( <i>Chamaecyparis pisifera</i> )	Several cultivars	Narrow or Pyramidal	Moderate	Over 50 ft	10 Feet	Evergreen	Some varieties	No	No	No
Atlantic whitecedar ( <i>Chamaecyparis thuyoides</i> )	Several cultivars	Narrow or Pyramidal	Moderate	Over 50 ft	10 Feet	Evergreen	No	No	No	No
Kousa Dogwood ( <i>Cornus kousa</i> )	Several cultivars	Rounded	Slow to Moderate	Less than 30 ft	8-10 Feet	Deciduous	Yes	No	Yes	Yes
Pagoda Dogwood ( <i>Cornus alternifolia</i> )	Dense compact varieties	Rounded	Slow to Moderate	Less than 30 ft	8-10 Feet	Deciduous	Yes	No	No	Yes
European Smoketree ( <i>Cotinus coggygria</i> )	Dense compact varieties	Open to Irregular	Moderate	Less than 30 ft	5-8 Feet	Deciduous	Yes	No	No	No
American Smoketree ( <i>Cotinus obovatus</i> )	Dense compact varieties	Open to Irregular	Moderate	Less than 30 ft	5-8 Feet	Deciduous	Yes	No	No	No
Cryptomeria ( <i>Cryptomeria japonica</i> )	Radicans,	Upright to Pyramidal	Moderate	30 to 50 ft	5-10 Feet	Evergreen	No	Minimal	No	Intermediate
Foster Holly ( <i>Ilex x attenuate</i> 'Fosteri')	Several cultivars	Upright to Pyramidal	Slow	Less than 30 ft	4-8 Feet	Evergreen	No	Minimal	No	Intermediate
Chinese Holly ( <i>Ilex cornuta</i> )	Several cultivars	Bushy and dense	Moderate	Less than 30 ft	4-6 Feet	Evergreen	Yes	No	Yes	Intermediate
Nellie Stevens Holly ( <i>Ilex x 'Nellie R Stevens'</i> )	Several cultivars	Upright to Conical	Moderate	Less than 30 ft	4-8 Feet	Evergreen	Yes	No	No	Intermediate
American Holly ( <i>Ilex opaca</i> )	Greenleaf	Upright to Pyramidal	Slow to Moderate	30 to 50 ft	5-10 Feet	Evergreen	No	Minimal	No	Yes
Yaupon Holly ( <i>Ilex vomitoria</i> )	Several cultivars	Upright to Irregular	Moderate to Fast	Less than 30 ft	5-10 Feet	Evergreen	Yes	Yes	Yes	Intermediate
Witch-hazel* ( <i>Hamamelis virginiana</i> )	Dense compact varieties	Round to Open	Moderate	Less than 30 ft	5-10 Feet	Deciduous	Yes	No	No	Intermediate
Chinese Juniper ( <i>Juniperus chinensis</i> )	Keteleeri	Upright to Conical	Moderate to Fast	30 to 50 ft	5-10 Feet	Evergreen	Some varieties	No	Yes	No
Rocky Mountain Juniper ( <i>Juniperus scopulorum</i> )	Spartan	Upright to Conical	Moderate	30 to 50 ft	5-10 Feet	Evergreen	Some varieties	No	Yes	No
Eastern Red Cedar ( <i>Juniper virginiana</i> )	Brodie, Berkie, Canaertii	Upright to Conical	Moderate	30 to 50 ft	5-10 Feet	Evergreen	No	No	Yes	No
American Sweetgum ( <i>Liquidambar styraciflua</i> )	Slender silhouette	Columnar	Moderate	30 to 50 ft	6 Feet	Deciduous	No	Yes	No	No
Southern Magnolia ( <i>Magnolia grandiflora</i> )	Little Gem, Alta	Upright to Oval	Slow to Moderate	30 to 50 ft	Variable	Evergreen	Some varieties	Minimal	Yes	Intermediate
Sweetbay magnolia ( <i>Magnolia virginiana</i> )	Dense compact varieties	Upright to Spreading	Moderate	30 to 50 ft	5-8 Feet	Deciduous	No	Yes	No	Yes
Norway spruce ( <i>Picea abies</i> )	Many cultivars	Pyramidal	Moderate	Over 50 ft	10 Feet	Evergreen	No	No	No	No
Eastern white pine ( <i>Pinus strobus</i> )	Many cultivars	Pyramidal	Moderate to Fast	Over 50 ft	10 Feet	Evergreen	No	No	No	Intermediate
Weeping Cherry ( <i>Prunus subhirtella</i> )	Dense compact varieties	Weeping	Moderate	Less than 30 ft	5-10 Feet	Deciduous	Some varieties	No	No	No
Cherry Laurel ( <i>Prunus caroliniana</i> )	Bright N Tight, Cherry Ruffles	Open to Irregular	Fast	Less than 30 ft	5-10 Feet	Deciduous	Some varieties	No	Yes	Yes
English Oak ( <i>Quercus robur</i> )	Regal Prince, Skyrocket	Columnar	Slow to Moderate	30 to 50 ft	6 Feet	Deciduous	No	No	No	No
Pin Oak ( <i>Quercus palustris</i> )	Green Pillar	Columnar	Moderate	30 to 50 ft	6 Feet	Deciduous	No	Yes	No	No
Eastern arborvitae ( <i>Thuja occidentalis</i> )	Emerald, Green Giant, Nigra, Techny	Upright to Conical	Moderate	Less than 30 ft	5-8 Feet	Evergreen	No	Minimal	Yes	No
Viburnum spp. ( <i>Viburnum spp.</i> )	Dense compact varieties	Open to Irregular	Fast	Less than 30 ft	4-6 Feet	Deciduous	Yes	Yes	Yes	Yes
Chastetree ( <i>Vitex negundo</i> )	Few	Vaseshape to Round	Fast	Less than 30 ft	Indistinct	Deciduous	Yes	No	No	No