

2012

City of Kirkwood Street Tree Guide



City of Kirkwood

139 S. Kirkwood Road

Kirkwood, MO 63122

314-822-5801

Introduction

Introduction

The Kirkwood Urban Forestry Commission (KUFC) is pleased to present these updated lists of recommended street trees for enhancing Kirkwood's streets, avenues, boulevards, and ways. Development of this composite list is the result of significant research, incorporating the advice from local professionals including arborists, urban foresters, nurserymen, horticulturists, and landscaping managers. The intention of this effort is to provide urban planners, architects, landscape architects, public works managers, utility managers, and Kirkwood residents with a list of trees appropriate for street tree application, tailored to the Kirkwood environment. Since the world of living plants is quite dynamic, these lists will be reviewed periodically by the KUFC and updated if deemed necessary after reviewing the results of current urban forestry research.

The KUFC completed its most recent review and update of the city's current list of recommended street trees as of June, 2012. The Kirkwood Urban Forestry Commissions' primary intention associated with development of this highly researched document is to provide Kirkwood citizens and staff with state-of-the-art tree recommendations as the community continues to enhance Kirkwood's urban forest.

Kirkwood Urban Forestry Commission (Fall 2012)

Roger Vonder Bruegge, Chair
David Endres, Vice Chair
Alan Hautly
David Slane
Michelle Storgion
Priscilla Ward
Rita Schoenberg

Kirkwood City Council

Arthur McDonnell, Mayor
Iggy Yuan, Deputy Mayor
Gerry Biedenstein
Nancy Luetzow
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Bob Sears
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A Note about the Organization of this Guide: For the convenience of users, each list is offered twice: First, alphabetically sorted by **botanical name** and then alphabetically by **common name**.

Definitions

- **Botanical Name:** the scientific Latin name of a plant.
- **Cultivar:** a named plant variety selected for specifically unique and desired characteristics.
- **Invasive:** by introduction to the landscape, any plant that can cause economic or environmental harm or harm to human health.
- **Street Tree:** trees growing on city right-of-way of all streets, avenues, or ways within the city. [NOTE: Contact ***City of Kirkwood Public Works/Engineering*** 314-822-5822 for verification of city right-of-way locations.]
- **Tree-form:** a single trunk form of a tree species normally offered as a clump or multi-trunk tree
- **Tree Lawn:** the city right-of-way planting area between the street curb/edge and the sidewalk.

Undesirable Trees Not Recommended for Kirkwood

While many tree species are quite applicable and adaptable for Kirkwood's challenging urban streetscape, the KFUC has also identified a variety of trees not appropriate for use within the streetscape environment. Primary reasons for discouraging the use of these undesirable tree species include:

- Weak branching habit, resulting in frequent release of fallen branches.
- Producer of messy fruit, creating a slip hazard on the pavement and sidewalk surfaces.
- Prone to damage by insects, diseases and nutrient deficiencies.
- Producer of numerous viable seeds, creating an invasive plant impact upon the surrounding landscape.

Potentially Threatened Trees

The dynamic nature of plants and the environment requires constant monitoring of trees and their potential pest enemies. The increased presence of such pests as Emerald Ash Borer and Japanese Beetle can affect the decision to place trees on the recommended lists or on the list of undesirable trees. Potential pest problems are referenced in the comment section associated with each tree list.

Kirkwood Electric and Ameren Lines

Ameren does not recommend planting trees under power lines that will attain more than 25' in height. Kirkwood Electric does not recommend planting any trees under power lines. Cable and phone lines using the same power poles are only about 16' off the ground. Electric utilities are required to trim trees in the right-of-way so that they do not interfere with electric lines, which can be detrimental to the look and shape of the trees.

Small Trees
(>30 feet tall)

Underlined Species =
Plants of Merit



Small Trees (Under 30 Feet in Height)

SORTED BY BOTANICAL NAME
TL = Suited for Tree Lawn spaces

BOTANICAL NAME	SUGGESTED CULTIVAR(S)	COMMON NAME	TL
<u>Acer buergeranum</u> <i>Tolerant of dry sites</i>		Maple, Trident	YES
<u>Acer ginnala</u> <i>Tolerant of dry sites; considered to be invasive in the eastern US, but not found to be problematic in the Midwest; suggest tree-form (single-trunk) selections for street tree application</i>		Maple, Amur	YES
<u>Acer palmutura</u>		Maple, Japanese	YES
<u>Acer tataricum</u>		Maple, Tatarian	YES
<u>Amelanchier x grandiflora</u>	<u>Autumn Brilliance</u> <u>Autumn Sunset</u> <u>Cumulus</u> <u>Princess Diana</u> <u>Snowcloud</u> <u>Tradition</u>	<u>Serviceberry</u>	YES
<i>Suggest tree form (single-trunk) selection for street tree application</i>			
<u>Cercis canadensis</u>		Redbud, Eastern	YES
<u>Cornus Florida</u>		Flowering Dogwood	YES
<u>Crataegus punctata</u>	<u>Ohio Pioneer (thornless)</u>	<u>Hawthorne, Dotted</u>	YES
<u>Crataegus viridis</u>	<u>Winter King</u>	<u>Hawthorne, Green</u>	YES
<i>Maintains attractive red fruit during the winter months</i>			
<u>Maackia amurensis</u> <i>Not readily available</i>		Maackia, Amur	YES
<u>Magnolia soulangiana</u>	<u>Merrill</u>	<u>Magnolia</u>	YES
<i>Suggest tree-form (single trunk) selections for street tree application</i>			
<u>Magnolia x hybrids</u>	<u>Centurion</u> <u>Harvest Gold</u> <u>Prairie Fire</u> <u>Professor Sprenger</u> <u>Snowdrift</u> <u>Sugar Tyme</u>	<u>Crabapple, Flowering</u>	YES
<i>Suggested cultivars are most resistant to foliar diseases</i>			
<u>Syringa reticulata</u>	<u>Ivory Silk</u> <u>Regent</u> <u>Summer Snow</u>	<u>Lilac, Japanese Tree</u>	YES

STREET TREE
SELECTIONS
FOR KIRKWOOD

Medium Trees
(30 to 45 feet tall)

Underlined Species =
Plants of Merit



Medium Trees (30 to 45 Feet in Height)

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TL = Suited for Tree Lawn spaces

BOTANICAL NAME	SUGGESTED CULTIVAR(S)	COMMON NAME	TL
<u>Acer campestre</u> <i>Not readily available</i>	Queen Elizabeth	Maple, Hedge	YES
<u>Acer miyabei</u> <i>May be drought sensitive</i>	State Street (Morton)	Maple, Miyabe	YES
<u>Acer x truncatum</u>	Norwegian Sunset Pacific Sunset	Maple, Shantung	YES
<u>Betula nigra</u> <i>Extensive surface roots compete with ground cover plantings; suggest tree-form (single trunk) selections for street tree application; may be short lived as a street tree</i>	<u>Heritage</u> Dura Heat	Birch, River	YES
<u>Carpinus betulus</u> <i>Suggest tree-form (single trunk) selections for street tree application</i>	<u>Fastigiate (upright)</u>	Hornbeam, European	YES
<u>Cladrastis kentukea</u>		Yellowwood, American	YES
<u>Corylus colurna</u> <i>Tolerant of dry sites; not readily available</i>		Filbert, Turkish	YES
<u>Eucommia ulmoides</u> <i>Not readily available</i>		Hardy Rubber Tree	YES
<u>Gleditsia triacanthos</u> <i>Suggested cultivars are thornless</i>	<u>Imperial</u>	Honeylocust, Thornless	YES
<u>Ilex opaca</u>		Holly, American	YES
<u>Magnolia acuminata</u>		Magnolia, Cucumbertree	YES
<u>Ostrya virginiana</u>		Hophornbeam, American	YES
<u>Phellodendron amurense</u> <i>Tolerant of dry sites</i>	<u>Macho</u>	Corktree, Amur	YES

Note:

The Kirkwood Urban Forestry Commission discourages the use of ornamental pear (Pyrus) trees as street trees. Even the purported "improved" cultivars have been found to be subject to storm damage and fire blight disease. Arborists consider these species to be invasive, creating an adverse plant impact upon the surrounding landscape.

STREET TREE
SELECTIONS
FOR KIRKWOOD

Large Trees
(<45 feet tall)

Underlined Species =
Plants of Merit



Large Trees (Greater than 45 Feet in Height)

SORTED BY BOTANICAL NAME
TL = Suited for Tree Lawn spaces

BOTANICAL NAME	SUGGESTED CULTIVAR(S)	COMMON NAME	TL
Acer rubrum	Autumn Flame Red Sunset	Maple, Red	YES
<i>Leaf scorch may occur when growing among extensive paved areas</i>			
Acer saccharum	Green Mountain Fall Fiesta (Balista)	Maple, Sugar	YES
<i>Not well adapted to sites prone to soil compaction; may be sensitive to salt</i>			
Acer x freemanii	Autumn Blaze	Maple, Hybrid	YES
Carya ovata		Hickory, Shag Bark	YES
Celtis occidentalis	Prairie Pride	Hackberry, Common	YES
<i>Tolerant of dry sites</i>			
Ginkgo biloba	Autumn Gold Lakeview Princeton Sentry	Ginkgo, Maidenhair Tree	YES
<i>Only male cultivars are recommended; female trees produce messy and foul smelling fruit</i>			
Gleditsia triacanthos	Moraine Shademaster Skyline	Honeylocust, Thornless	YES
<i>Suggested cultivars are thornless</i>			
Platanus x acerifolia	Bloodgood	Planetree, London	YES
Quercus bicolor		Oak, Swamp White	
Quercus macrocarpa		Oak, Bur	
<i>Difficult to transplant; produces large acorns, better suited for large lawn areas</i>			
<u>Quercus phellos</u>		Oak, Willow	
<i>May be marginally cold hardy; prone to iron chlorosis</i>			
Quercus robur	Fastigate (upright) Skymaster (upright)	Oak, English	
<i>Foliage may be prone to powdery mildew disease</i>			
Quercus rubra		Oak, Northern Red	
Quercus shumardii		Oak, Shumard	

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BOTANICAL NAME	SUGGESTED CULTIVAR(S)	COMMON NAME	TL
<u>Quercus x Warei</u> <i>Attractive glossy foliage</i>	Regal Prince (Long)	Oak, Hybrid	
<u>Taxodium distichum</u> <i>Tolerant of poorly drained sites</i>	Shawnee Brave	Bald Cypress	YES
<u>Tilia cordata</u> <i>Subject to defoliation by the Japanese beetle; not always the most salt and drought tolerant</i>	Chancellor (upright) Fairview Glenleven Greenspire	Linden, Littleleaf	
<u>Tilia tomentosa</u>	Green Mountain Sterling	Linden, Silver	
<u>Ulmus parvifolia</u> <i>May be marginally cold hardy</i>	Dynasty Ohio	Elm, Lacebark or Chinese	YES
<u>Zelkova serrata</u>	Green Vase Halka Village Green	Zelkova, Japanese	YES

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STREET TREE
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Small Trees (Under 30 Feet in Height)

SORTED BY COMMON NAME
TL = Suited for Tree Lawn spaces

COMMON NAME	BOTANICAL NAME	SUGGESTED CULTIVAR(S)	TL
Crabapple, Flowering	Malus x hybrids	Centurion Harvest Gold Prairie Fire Professor Sprenger Snowdrift Sugar Tyme	YES
<i>Suggested cultivars are most resistant to foliar diseases</i>			
Dogwood, Flowering	Cornus Florida		YES
Hawthorne, Dotted	Crataegus punctata	Ohio Pioneer (thornless)	YES
<i>Suggested cultivar is thornless; not readily available</i>			
Hawthorne, Green	Crataegus viridis	Winter King	YES
<i>Maintains attractive red fruit during the winter months</i>			
Lilac, Japanese Tree	Syringa reticulata	Ivory Silk Regent Summer Snow	YES
Maackia, Amur	Maackia amurensis		YES
<i>Not readily available</i>			
Magnolia	Magnolia x lebneri	Merrill	YES
<i>Suggest tree-form (single trunk) selections for street tree application</i>			
Magnolia, Saucer	Magnolia soulangiana		YES
<i>Suggest tree-form (single trunk) selections for street tree application</i>			
Maple, Amur	Acer ginnala		YES
<i>Tolerant of dry sites; considered to be invasive in the eastern U.S., but not found to be problematic in the Midwest; suggest tree-form (single trunk) selections for street tree application</i>			
Maple, Japanese	Acer palmatum		YES
Maple, Tatarian	Acer tataricum		YES
Maple, Trident	Acer buergerianum		YES
<i>Tolerant of dry sites</i>			
Redbud, Eastern	Cercis canadensis		YES
<i>Tolerant of dry sites</i>			

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COMMON NAME	BOTANICAL NAME	SUGGESTED CULTIVAR(S)	TL
Serviceberry	Amelanchier x grandiflora	<u>Autumn Brilliance</u> Autumn Sunset Cumulus Princess Diana Snowcloud Tradition	YES
<i>Suggest tree-form (single trunk) selections for street tree application</i>			

Underlined Species =
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STREET TREE
SELECTIONS
FOR KIRKWOOD

Medium Trees
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Medium Trees (30 to 45 Feet in Height)

SORTED BY COMMON NAME
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COMMON NAME	BOTANICAL NAME	SUGGESTED CULTIVAR(S)	TL
Birch, River <i>Extensive surface roots compete with ground cover plantings; suggest tree-form (single trunk) selections for street tree application; may be short lived as a street tree</i>	Betula nigra	<u>Heritage</u>	YES
Corktree, Amur <i>Tolerant of dry sites</i>	Phellodendron amurense	Macho	YES
Filbert, Turkish <i>Tolerant of dry sites; not readily available</i>	Corylus colurna		YES
Hardy Rubber Tree <i>Not readily available in commerce</i>	Eucommia ulmoides		YES
Holly, American	Ilex opaca		YES
Honeylocust, Thornless <i>Suggested cultivars are thornless</i>	Gleditsia triacanthos	Imperial	YES
Hophornbeam, American <i>Tolerant of dry sites</i>	Ostrya virginiana		YES
Hornbeam, European <i>Suggest tree-form (single trunk) selections for street tree application</i>	Carpinus betulus	<u>Fastigiata (Upright)</u>	YES
Magnolia, Cucumbertree	Magnolia acuminata		YES
Maple, Hedge <i>Not readily available</i>	Acer campestre	Queen Elizabeth	YES
Maple, Miyabe <i>May be drought sensitive</i>	Acer miyabei	Morton (State Street)	YES
Maple, Shantung	<u>Acer x truncatum</u>	Norwegian Sunset Pacific Sunsest	YES
Yellowwood, American	Cladrastis kentukea		YES

NOTE:

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STREET TREE
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Large Trees
(<45 feet tall)

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Large Trees (Greater than 45 Feet in Height)

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COMMON NAME	BOTANICAL NAME	SUGGESTED CULTIVAR(S)	TL
Bald Cypress <i>Tolerant of poorly drained sites</i>	Taxodium distichum	Shawnee Brave	YES
Elm, Lacebark or Chinese <i>May be marginally cold hardy</i>	Ulmus parvifolia	Dynasty Ohio	YES
Ginkgo, Maidenhair Tree <i>Only male cultivars are recommended; female trees produce messy and foul smelling fruit</i>	Ginkgo biloba	Autumn Gold Lakeview Princeton Sentry	YES
Hackberry, Common <i>Tolerant of dry sites</i>	Celtis occidentalis	Prairie Pride	YES
Hickory, Shag Bark	Carya ovata		YES
Honeylocust, Thornless <i>Suggested cultivars are thornless</i>	Gleditsia triacanthos	Moraine Shademaster Skyline	YES
Linden, Littleleaf <i>Subject to defoliation by the Japanese beetle; no always the most salt and drought tolerant</i>	Tilia cordata	Chancellor (upright) Fairview Glenleven Greenspire	
Linden, Silver	Tilia tomentosa	Green Mountain Sterling	
Maple, Hybrid	Acer x freemanii	Autumn Blaze	YES
Maple, Red <i>Leaf scorch may occur when growing among extensive paved areas</i>	Acer rubrum	Autumn Flame Red Sunset	
Maple, Sugar <i>Not well adapted to sites prone to soil compaction; may be sensitive to salt</i>	Acer saccharum	Green Mountain Fall Fiesta (Bailsta)	
Oak, Bur <i>Difficult to transplant; produces large acorns, better suited for large lawn area</i>	Quercus macrocarpa		

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COMMON NAME	BOTANICAL NAME	SUGGESTED CULTIVAR(S)	TL
Oak, English	Quercus robur	Fasitigiate (upright) Skymaster (upright)	
<i>Foliage may be prone to powdery mildew disease</i>			
Oak, Hybrid	Quercus x Warei	Long (Regal Prince)	
<i>Attractive glossy foliage</i>			
Oak, Northern Red	Quercus rubra		
Oak, Shumard	Quercus shumardii		
Oak, Swamp White	Quercus bicolor		
Oak, Willow	<u>Quercus phellos</u>		
<i>May be marginally cold hardy; prone to iron chlorosis</i>			
Planetree, London	Plantanus x acerifolia	Bloodgood	YES
Zelkova, Japanese	Zelkova serrata	Green Vase Halka Village Green	YES

Underlined Species =
Plants of Merit



Undesirable Trees

SORTED BY BOTANICAL NAME
TL = Suited for Tree Lawn spaces

Undesirable Trees

BOTANICAL NAME	COMMON NAME	TL
Acer negundo <i>Messy fruit; weak branched</i>	Boxelder	
Acer saccharinum <i>Weak branched</i>	Maple, Silver/Soft	
Acsculus (species) <i>Messy fruit</i>	Horsechestnut	
Ailanthus altissima <i>Invasive weed</i>	Tree of Heaven	
Catalpa (species) <i>Messy fruit</i>	Catalpa	
Crataegus phaenopyrum <i>Highly susceptible to Cedar Apple Rust disease; thorns may be a hazard if planted along sidewalks</i>	Hawthorne, Washington	
Fraxinus Americana	Ash, White	
Fraxinus Pennsylvanica	Ash, Green	
Ginkgo biloba (female non-cultivars) <i>Female trees produce abundance of messy, malodorous fruit</i>	Ginkgo, Maidenhair Tree	
Gleditsia triacanthos (species with thorns) <i>Hazardous thorns</i>	Honeylocust	
Juglans nigra <i>Messy fruit</i>	Walnut, Black	
Liquidambar styraciflua <i>Messy fruit</i>	Sweet Gum	
Malus (species) (large fruit varieties) <i>Messy fruit</i>	Apple	
Malus x hybrids (disease prone varieties e.g.: Hopa, Radiant..) <i>Early leaf drop due to leaf disease</i>	Crabapple	
Morus (species) (fruiting varieties) <i>Messy fruit</i>	Mulberry	

Undesirable Trees

Undesirable Trees

SORTED BY BOTANICAL NAME
TL = Suited for Tree Lawn spaces

BOTANICAL NAME	COMMON NAME	TL
Populus (species) <i>Invasive tree</i>	Poplar; Cottonwood	
Prunus (species) (fruiting varieties) <i>Messy fruit; short lived</i>	Cherry; Plum	
Pyrus (species) (fruiting varieties) <i>Messy fruit; invasive tree</i>	Pear	
Pyrus Calleryana <i>Invasive tree</i>	Bradford Pear	
Pyrus hybrids (all cultivars) <i>Quite subject to fire blight disease and wind damage; invasive tree</i>	Pear, Ornamental	
Quercus acutissima <i>Invasive tree</i>	Oak, Sawtooth	
Quercus imbricaria <i>Difficult to transplant; prone to oak wilt disease</i>	Oak, Shingle	
Quercus palustris <i>Prone to iron chlorosis (yellow foliage) on sites with high PH soils</i>	Oak, Pin	
Robinia pseudoacacia <i>Weak branched</i>	Locust, Black	
Salix (species) <i>Produces abundance of fallen branches</i>	Willow	

NOTE:

All conifer (needled evergreen) trees (e.g.: pine, spruce, etc.) are discouraged for street tree use due to low branching characteristics (evergreen tree species do not favor lower branch removal).

STREET TREE
SELECTIONS
FOR KIRKWOOD

Undesirable Trees

Undesirable Trees

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COMMON NAME	BOTANICAL NAME	TL
Apple <i>Messy fruit</i>	Malus (species)	(large fruit varieties)
Ash, White	Fraxinus Americana	
Ash, Green	Fraxinus Pennsylvanica	
Boxelder <i>Messy fruit; weak branched</i>	Acer negundo	
Catalpa <i>Messy fruit</i>	Catalpa (species)	
Cherry; Plum <i>Messy fruit; short lived</i>	Prunus (species)	(fruiting varieties)
Crabapple <i>Early leaf drop due to leaf disease</i>	Malus x hybrids	(disease prone varieties e.g.: Hopa, Radiant...)
Ginkgo, Maidenhair Tree <i>Female trees produce abundance of messy, malodorous fruit</i>	Ginkgo biloba	(female non-cultivars)
Hawthorne, Washington <i>Highly susceptible to Cedar Apple Rust disease; thorns may be a hazard if planted along sidewalks</i>	Crataegus phaenopyrum	
Honeylocust <i>Hazardous thorns</i>	Gleditsia triacanthos	(species with thorns)
Horsechestnut <i>Messy fruit</i>	Aesculus (species)	
Locust, Black <i>Weak branched</i>	Robinia pseudoacacia	
Maple, Silver/Soft <i>Weak branched</i>	Acer saccharinum	
Mulberry <i>Messy fruit</i>	Morus (species)	(fruiting varieties)
Oak, Pin <i>Prone to iron chlorosis (yellow foliage) on sites with high PH soils</i>	Quercus palustris	
Oak Sawtooth <i>Invasive tree</i>	Quercus acutissima	

Undesirable Trees

Undesirable Trees

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COMMON NAME	BOTANICAL NAME	TL
Oak, Shingle <i>Difficult to transplant; prone to oak wilt disease</i>	Quercus imbricaria	
Pear, Bradford <i>Invasive tree</i>	Pyrus Calleryana	
Pear, Ornamental <i>Quite subject to fire blight disease and wind damage; invasive tree</i>	Pyrus (all cultivars)	
Pear Pyrus (species) <i>Messy fruit; invasive tree</i>	Pyrus (fruiting varieties)	
Poplar, Cottonwood <i>Invasive tree</i>	Populus (species)	
Sweet Gum <i>Messy fruit</i>	Liquidambar styraciflua	
Tree of Heaven <i>Invasive weed</i>	Ailanthus altissima	
Walnut, Black <i>Messy fruit</i>	Juglans nigra	
Willow <i>Produces abundance of fallen branches</i>	Salix (species)	

NOTE:

All conifer (needled evergreen) trees (e.g.: pine, spruce, etc.) are discouraged for street tree use due to low branching characteristics (evergreen tree species do not favor lower branch removal).

For more information about the selection, planting, and care of urban trees, visit the following useful Websites:

Alliance for Community Trees

<http://actrees.org>

Ameren: Planting Trees from the Ground Up

www.ameren.com/sites/ae/Environment/VegetationManagement/Documents/PlantingTrees.pdf

Arbor Day Foundation

www.arborday.org

Find a Certified Arborist (International Society of Arboriculture)

www.isa-arbor.com/findArborist/findarborist.aspx

Forest ReLeaf of Missouri

www.moreleaf.org

Missouri Botanical Garden "PlantFinder"

www.mobot.org/gardeninghelp/plantfinder

Missouri Botanical Garden "Plants of Merit"

www.plantsofmerit.org

Missouri Department of Conservation/Forestry

www.mdc.mo.gov/forest

Right Tree in the Right Place

www.righttreerightplace.com

Trees are Good (International Society of Arboriculture)

www.treesaregood.com

Tree Selection Guide (University of IL Extension)

<http://urbanext.illinois.edu/treeselect/>



Plants of Merit, a program of the Missouri Botanical Garden, promotes underused, reliable, and ecologically responsible plants for diversifying private and public landscapes.