Great trees begin here!

Our reference guide describes more than 500 species and cultivars of shade, flowering, native and specialty ornamentals we grow in fertile Oregon soils. Founded in 1946 on 10 acres by Evelyn and J. Frank Schmidt, Jr., our company is known today as a premier wholesale source of contemporary deciduous tree cultivars, and introducer of more than 90 unique trees.

Today, “we’re growing new ideas” under the direction of second and third-generation members of the Schmidt family, dedicated staff, and a national network of regional sales representatives. Our bare root, container and B&B trees are sold to U.S., Canadian and international customers.

Our unique outreach to landscape architects, designers, arborists, urban foresters, horticultural researchers and garden writers adds value to trees. By highlighting their environmental, economic, social and health benefits and the essential role they play in growing livable, sustainable communities, we demonstrate that “Trees Are The Answer.”

Our reference guide is dedicated to the memory of our founders, Evelyn and J. Frank Schmidt, Jr. They are our inspiration.
Sales Team
Knowledgeable, friendly, customer service representatives deliver personalized customer care from our Oregon office. They work closely with our nationwide network of field representatives who live in the regions they serve, providing sales and marketing advice, planting and cultural recommendations, and customer service tailored to local growing conditions and market demands. Connect with your local representative via our website: www.jfschmidt.com/salesteam.html

Product Line
Bare root, container, root bags, B&B: Our broad product line of more than 500 species and cultivars of deciduous shade, flowering and specialty ornamental deciduous trees are offered in various forms. A select line of grafted conifers is also available in containers and B&B. Visit our website to learn about the many forms we offer including whips, branched trees, contorted, top grafts, multi-stem, clump, VigorLiner®, CustomValue® and more. www.jfschmidt.com/productline.html

Marketing and Promotional Materials
Our trees are supported by extraordinary marketing and promotional materials. This reference guide is a coveted handbook of modern tree cultivars. Custom picture tags, point-of-purchase signage, trunk wraps, posters and tree data sheets demand attention at landscape distribution centers and retail garden stores. Learn more about our trees online at www.jfschmidt.com. Discover additional marketing resources at: www.jfschmidt.com/services.html

Step One
Consult the pages of this Reference Guide for detailed descriptions of more than 500 superior tree varieties and cultivars including foliage, flower, fruit, fall color, hardiness and mature size and form.

Step Two
Before you specify, send us your “want list” of the trees we grow. Include quantity, size desired, and project location. We’ll match your needs with nurseries in your region that have purchased those varieties for growing on to specimen size.

Step Three
We provide the names of nearby growers so you can contact them about current availability. Thanks to the broad network of nurseries we supply, the trees you need are likely to be a blip on our TreeLocator™ radar screen.

Color Your Walls
Our colorful, informative wall posters are back! Each of the five posters features 22 of our finest trees. They are perfect for framing and fit into standard 24” x 36” poster frames. They are great sales tools and are ideally suited for hanging in your nursery office, garden center, design studio, classroom or botanical garden.

Poster sets are hand-delivered to our customers by our sales representatives, and distributed free of charge at the many green industry trade shows we attend each year.

Please contact our office to receive a set by mail. We will be pleased to send you a set for $10 to help offset the cost of postage.
The source of many tree issues can be traced to the roots. Ultimately, the success of a tree depends upon the quality and health of this hidden and often misunderstood element. Our concern for your success and the long term survival of trees is the reason we focus on growing great roots. Here, we pay as much attention to growing excellent roots as we do to developing straight, strong trunks and well-balanced branching.

Undercutting, root pruning and transplanting are among the techniques we use to grow trees with strong, sturdy, well-shaped roots on trees that will thrive for you. Here we outline some of the steps we take to ensure healthy roots and vigorous trees.

Growing our own seedlings, maintaining our own stock blocks for cuttings and grafting wood, and growing our own liners from tissue culture plantlets ensures quality from the beginning.

Quality control includes adherence to strict grading and quality standards for seedlings, cuttings and tissue culture plants. These are outlined in carefully developed growing manuals for each species. Bare root graders are trained to be as critical regarding root quality as they are in grading tops.

Hand pruning of bare root transplants, and the roots of container-grown plants is routinely done before lining out in the fields or containerizing.

Undercutting has always played an important role in our efforts to develop strong, balanced, healthy root systems. The practice also helps to develop more compact, balanced canopies of vigorous-growing varieties by controlling branch length.

Seedlings and cuttings grown in the raised beds at our seedling operations are undercut and are often transplanted and grown an extra year before lining out in rows in the fields. Certain varieties in our production fields are side-cut to encourage root development.

Our hilled row planting system for trees lined out in the fields improves planting depth, root structure, and overall tree health.

Strict planting protocols assure proper planting depth when trees are transplanted from seedbed or greenhouse to bare root and B&B fields or containers.

Rootstock choices are available in some varieties. Certain oaks, crabapples, pear and others are offered on two or more rootstocks so customers can choose the best options for their growing conditions.

Air pruning containers, developed with the assistance of experts in the growing of trees with healthy roots in containers, helped us design and develop a new air pruning container that produces trees with superior roots.

Field trials conducted by our staff horticulturists determine the best growing system for each tree variety. Multi-year experiments determined that certain species grown in root bags deliver more vigorous first season growth than bare root trees of the same type.

Roots thrive in our hilled row plantings.

Root expert Dr. Gary Watson of Morton Arboretum visited our nursery twice a year for nearly a decade to study the effects of typical nursery production practices on root architecture. Superior root systems and better trees are a result of our ongoing collaboration.

http://jfss.co/watsonroots
Thanks to our extensive research and development efforts, and collaboration with a worldwide network of tree breeders, J. Frank Schmidt & Son Co. has introduced or co-introduced more than 90 improved tree cultivars. Each is identified by this icon: 🌳

Trees branded as UtiliTrees™ are those best suited for planting in the restricted zone between street and sidewalk and beneath utility lines. Small stature, adaptability, pest resistance, and low maintenance requirements are among the characteristics of trees you’ll find listed on Page 78, at www.utilitrees.com and identified with this icon: 🌳

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**Acer buergerianum**

**Trident Maple**

- **Zone:** 6
- **Height:** 20'
- **Spread:** 20'
- **Shape:** Round, low and spreading
- **Foliage:** Glossy green, pale underside
- **Fall Color:** Red, orange

Adaptability to urban environments and small stature make this handsome tree a good choice for confined sites and tough growing conditions including drought and air pollution.

**Acer campestre**

**Hedge Maple**

- **Zone:** 5
- **Height:** 30'
- **Spread:** 30'
- **Shape:** Upright narrow oval
- **Foliage:** Dark green
- **Fall Color:** Bright yellow

**INSECT RESISTANCE:** Japanese beetle

This is an excellent street tree selection from a species that has earned a reputation as a tough urban tree. Upright and narrow in form, it is much more slender than seedling hedge maple and a better fit for narrow city streets. It produces fewer seeds than typical of the species and has an improved, bright yellow fall color.

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**Acer campestre 'Queen Elizabeth'**

**Maple**

- **Zone:** 6
- **Height:** 35'
- **Spread:** 30'
- **Shape:** Upright branching, oval
- **Foliage:** Dark green
- **Fall Color:** Yellow

**INSECT RESISTANCE:** Japanese beetle

More vigorous and upright growing than typical Hedge Maples, this medium sized shade tree has upright branch angles of 45 degrees as opposed to the horizontal or sometimes downward growing branches typical of the species. Rounded at maturity, it is a handsome, symmetrical, and reliable city tree.

**Acer campestre 'Panacek'**

**Metro Gold® Maple**

- **Zone:** 5b
- **Height:** 35'
- **Spread:** 20'
- **Shape:** Upright narrow oval
- **Foliage:** Dark green
- **Fall Color:** Bright yellow

**INSECT RESISTANCE:** Japanese beetle

This is an excellent street tree selection from a species that has earned a reputation as a tough urban tree. Upright and narrow in form, it is much more slender than seedling hedge maple and a better fit for narrow city streets. It produces fewer seeds than typical of the species and has an improved, bright yellow fall color.

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**Acer campestre 'JFS Shichtel2'**

**Streetside® Maple**

- **Zone:** 5
- **Height:** 35'
- **Spread:** 18'
- **Shape:** Upright narrow oval
- **Foliage:** Dark green
- **Fall Color:** Yellow

**INSECT RESISTANCE:** Japanese beetle

Upright sweeping branches give this vigorous growing selection of Hedge Maple its distinctively narrow and upright form. Heat resistant dark green leaves stay fresh through the summer months and turn yellow in autumn.

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**Acer campestre**

**Hedge Maple**

- **Zone:** 5
- **Height:** 30'
- **Spread:** 30'
- **Shape:** Dense and rounded
- **Foliage:** Dark green, glossy
- **Fall Color:** Yellow

**INSECT RESISTANCE:** Japanese beetle

A low maintenance, tough tree which adapts well to urban settings. Medium slow in growth rate and long lived. Attractive corky bark is striking in the winter.

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**Acer buergerianum**

**Trident Maple**

- **Zone:** 6
- **Height:** 20'
- **Spread:** 20'
- **Shape:** Round, low and spreading
- **Foliage:** Glossy green, pale underside
- **Fall Color:** Red, orange

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Our grading standards follow the system developed by AmericanHort® (American Horticulture Industry Association). Caliper measurements are taken at six inches above the soil line.


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In a city situation, trees that reach 30 years of age generally grow slowly beyond that time. Therefore, the size ratings and growth habits shown in this publication are our best estimates for a healthy 30 year old tree grown under “average” city conditions.

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© J. Frank Schmidt & Son Co. tree form illustrations
Pacific Fire Maple

Acer × freemanii 'Jeffersred'

**Autumn Blaze** Maple

Zone: 3
Height: 50'
Spread: 40'
Shape: Upright branching, broadly oval
Foliage: Medium green
Fall Color: Brilliant orange-red, long lasting

Drought tolerance and exceptionally bright red fall color are hallmarks of this popular and proven performer. A hybrid of Red and Silver Maple, this vigorous grower combines the best attributes of both in a stately, adaptable, fast growing shade tree.

Autumn Fantasy Maple

Acer × freemanii 'DTR 102'

Zone: 4
Height: 50'
Spread: 40'
Shape: Broadly oval
Foliage: Green
Fall Color: Bright red

A fast growing hybrid of Red and Silver maple, it consistently produces very good fall color, even in warmer climates.

Celebration Maple

Acer × freemanii 'Celzam'

Zone: 4
Height: 50'
Spread: 35'
Shape: Broadly oval
Foliage: Green
Fall Color: Yellow to orange

Leaves are deeply cut and resemble those of Silver Maple, but the tree has better form. Open branch angles and strong wood resist storm and ice damage. Tolerant of urban soils.

Firefall Maple

Acer × freemanii 'AF#1' PP 15593

Zone: 3b
Height: 50'
Spread: 35'
Shape: Upright oval
Foliage: Green
Fall Color: Orange-red to red
Fruit: Seedless

Deeply cut foliage, exceptional cold hardiness, and bright red fall color are among the special attributes of this tree. A controlled cross of Beebe cutleaf silver maple and Autumn Spire red maple, this University of Minnesota release is a fast growing, bright performer for the North.

Pacific Fire Maple

Acer × freemanii 'JFS-Purple'

**Pacific Purple** Maple

Zone: 6
Height: 12'
Spread: 12'
Shape: Multi-stemmed, upright spreading
Foliage: Bronze-green turns purple
Fall Color: Orange-bronze
Fruit: Purple winged samaras

A totally new appearance for the Pacific Northwest’s native vine maple, this cultivar boasts bronze-green new growth in the spring that turns to deep purple in the heat of the summer and holds until fall. Discovered by J. Frank Schmidt III.

Vine Maple

Acer circinatum

Zone: 6
Height: 15'
Spread: 10'
Shape: Multi-stemmed, upright spreading
Foliage: Green
Fall Color: Orange to bright red
Fruit: Red winged samaras

Pacific Northwest native tree has a delicate and artistic growth habit, rich green summer foliage and excellent fall color.

Pacific Fire Maple

Acer circinatum 'Pacific Fire'

Zone: 6
Height: 12'
Spread: 8'
Shape: Multi-stemmed, upright spreading
Foliage: Medium green
Fall Color: Orange-yellow
Fruit: Red winged samaras

Young branches turn brilliant red in autumn just in time to light the winter landscape on fire. The color parade continues into spring as lime green foliage unfolds against scarlet stems that mellow to orange brown as they mature.

Pacific Purple Maple

Acer circinatum 'JFS-Purple'

Zone: 6
Height: 12'
Spread: 12'
Shape: Multi-stemmed, upright spreading
Foliage: Bronze-green turns purple
Fall Color: Orange-bronze
Fruit: Purple winged samaras

A totally new appearance for the Pacific Northwest’s native vine maple, this cultivar boasts bronze-green new growth in the spring that turns to deep purple in the heat of the summer and holds until fall. Discovered by J. Frank Schmidt III.
**Marmo Maple**
- *Acer × freemanii* ‘Marmo’
- **Zone:** 3
- **Height:** 55’
- **Spread:** 45’
- **Shape:** Upright, oval
- **Foliage:** Medium green
- **Fall Color:** Orange to orange-red

A seedless hybrid of Red and Silver Maple, its growth rate and form are similar to that of Silver Maple, while its fall color is that of Red Maple. Resistance to frost cracking is also a plus.

**Matador™ Maple – First Editions®**
- *Acer × freemanii* ‘Bailston’
- **Zone:** 4
- **Height:** 45’
- **Spread:** 35’
- **Shape:** Upright, oval
- **Foliage:** Green
- **Fall Color:** Bright red

A tough, hardy maple with upright, symmetrical form and adaptability to varied soils. Deep red, long lasting fall color is consistently bright and appears later in the season than is typical of *A. freemanii* cultivars.

**Sienna Glen® Maple**
- *Acer × freemanii* ‘Sienna’ PP 11322
- **Zone:** 3
- **Height:** 50’
- **Spread:** 35’
- **Shape:** Pyramidal
- **Foliage:** Green
- **Fall Color:** Rusty orange to burgundy
- **Fruit:** Reported seedless

This hardy hybrid maple was discovered in Minnesota. It features a strong central leader and develops a pyramidal form with minimal pruning. This is a tough, low maintenance tree.

**Red November™ Maple**
- *Acer × freemanii* ‘Red November’
- **Zone:** 4
- **Height:** 18’
- **Spread:** 24’
- **Shape:** Low branched, upright spreading to rounded
- **Foliage:** Bright green, fine textured
- **Fall Color:** Bright red
- **Fruit:** Bright red samaras

Selected by Dr. Michael Dirr, this tree features bright green foliage that stays fresh and clean despite summer stress. Bright red fall color develops later than that of typical seedlings. This heat adapted Amur maple evolved from the heat of Georgia performs well all across the southern U.S.

**Ruby Slippers Maple**
- *Acer × freemanii* ‘Ruby Slippers’
- **Zone:** 3
- **Height:** 20’
- **Spread:** 20’
- **Shape:** Low branched, upright spreading to rounded
- **Foliage:** Medium green, fine textured
- **Fall Color:** Bright red
- **Fruit:** Bright red samaras

Selected for a straight trunk, dense canopy, and bright red samaras in early summer, this cultivar brings uniformity to a variable species. It shows good nursery form and bright fall color.

**Sienna Glen® Maple**
- *Acer × freemanii* ‘Sienna’ PP 11322
- **Zone:** 3
- **Height:** 50’
- **Spread:** 35’
- **Shape:** Pyramidal
- **Foliage:** Green
- **Fall Color:** Rusty orange to burgundy
- **Fruit:** Reported seedless

This hardy hybrid maple was discovered in Minnesota. It features a strong central leader and develops a pyramidal form with minimal pruning. This is a tough, low maintenance tree.

**Flame Maple**
- *Acer × freemanii* ‘Sienna’ PP 11322
- **Zone:** 3
- **Height:** 50’
- **Spread:** 35’
- **Shape:** Pyramidal
- **Foliage:** Green
- **Fall Color:** Rusty orange to burgundy
- **Fruit:** Reported seedless

One of the hardiest trees available. Specimens are very interesting in form because of their spreading branch pattern. Flame is a seed source selection, chosen for improved form and consistent fall color.

**Red November™ Maple**
- *Acer × freemanii* ‘Red November’
- **Zone:** 4
- **Height:** 18’
- **Spread:** 24’
- **Shape:** Low branched, upright spreading to rounded
- **Foliage:** Bright green, fine textured
- **Fall Color:** Bright red
- **Fruit:** Bright red samaras

Selected by Dr. Michael Dirr, this tree features bright green foliage that stays fresh and clean despite summer stress. Bright red fall color develops later than that of typical seedlings. This heat adapted Amur maple evolved from the heat of Georgia performs well all across the southern U.S.

**Ruby Slippers Maple**
- *Acer × freemanii* ‘Ruby Slippers’
- **Zone:** 3
- **Height:** 20’
- **Spread:** 20’
- **Shape:** Low branched, upright spreading to rounded
- **Foliage:** Medium green, fine textured
- **Fall Color:** Bright red
- **Fruit:** Bright red samaras

Selected for a straight trunk, dense canopy, and bright red samaras in early summer, this cultivar brings uniformity to a variable species. It shows good nursery form and bright fall color.
**Acer grandidentatum**

**Big Tooth Maple**

*Zone:* 4  
*Height:* 20'  
*Spread:* 20'  
*Shape:* Rounded  
*Foliage:* Medium green  
*Fall Color:* Orange-red to red

Native to the Rocky Mountains, this smaller cousin of the eastern sugar maple tolerates the quick changing weather of the western mountains. In its native habitat, it lights up the canyons with bright red fall color.

**Acer grandidentatum × saccharum ‘Hipzam’**

**Highland Park® Maple**

*Zone:* 4  
*Height:* 35'  
*Spread:* 22'  
*Shape:* Pyramidal  
*Foliage:* Dark green  
*Fall Color:* Red

Intermediate in size, this tree appears to be a hybrid between *A. grandidentatum* and *A. saccharum*. Tightly upright and pyramidal, its thick leaves are tatter resistant and turn bright red in autumn. Faster growing and more upright than typical bigtooth maple yet smaller and more heat resistant than sugar maple.

**Acer griseum**

**Paperbark Maple**

*Zone:* 5  
*Height:* 25'  
*Spread:* 20'  
*Shape:* Upright spreading, rounded crown  
*Foliage:* Trifoliate, dark green  
*Fall Color:* Red

A small tree of rare beauty, this trifoliate maple’s compound leaves give it a delicate texture in summer, then display long lasting red fall color. Exfoliating orange-brown to cinnamon-brown bark creates year round interest.

**Acer griseum ‘JFS KW8AGRI’**

**Fireburst™ Paperbark Maple**

*Zone:* 5  
*Height:* 25'  
*Spread:* 18'  
*Shape:* Upright oval  
*Foliage:* Dark green, trifoliate  
*Fall Color:* Brilliant red  
*Bark:* Reddish-brown, smooth with exfoliating papery curls

Superior branch structure, upright and uniform shape, predictable performance and speedy growth are among attributes of this Paperbark Maple cultivar. Bark coloration and exfoliating character are outstanding, as is the quality of dark green foliage that turns brilliant red in autumn.

Glossy dark green leaves withstand the heat, drought and drying winds of Rocky Mountain summers before glowing bright orange to orange-red in autumn.

www.MesaGlowMaple.com
Cinnamon Girl™ Maple

Acer x A. maximowiczianum ‘Molly Fordham’

Zone: 5
Height: 25’
Spread: 20’
Shape: Upright oval
Foliage: Dark green, trifoliate
Fall Color: Rich dark red

This vigorous and heat tolerant hybrid develops a wonderful cinnamon colored bark that flakes with age. Trifoliate leaves maintain their rich, dark green color through the heat of summer and turn to deep crimson and red in autumn.

Acer japonicum

Fullmoon Maple

Acer japonicum ‘Ed Wood #2’

Zone: 5
Height: 20’
Spread: 25’
Shape: Broadly upright spreading
Foliage: Green, large, deeply cut
Fall Color: Orange, yellow, and red

Excellent fall color, vigorous growth, and leaves much larger than those of the species are merits of this outstanding seedling of ‘Aconitifolium.’ Selected by plantsman Ed Wood, its large, fan-like, cutleaf foliage and curving branches give a tropical feel to landscape plantings.

Acer negundo

Box Elder

Acer negundo ‘Sensation’

Sensation Box Elder

Zone: 4b
Height: 30’
Spread: 25’
Shape: Rounded
Foliage: Medium green
Fall Color: Brilliant red
Fruit: Seedless

Sensation is a male box elder clone that features slower, more controlled growth, improved branch structure, and an outstanding display of brilliant red autumn foliage. Warren Carnefix of Fruitland Nursery discovered the original tree growing near an abandoned Idaho homestead.

Acer nigrum

Black Maple

Acer nigrum ‘Greencolumn’

Greencolumn Maple

Zone: 4
Height: 50’
Spread: 20’
Shape: Upright, narrow
Foliage: Light green
Fall Color: Yellow to apricot orange, excellent

An upright oval tree with good resistance to heat, this is a selection of Black Maple. Better adapted to hot dry conditions than Sugar Maples. Leaves are yellow-orange, instead of red, in the fall. The original tree was selected by Bill Heard from a native stand in central Iowa.

Acer macrophyllum

Bigleaf Maple

Acer macrophyllum

Bigleaf Maple

Zone: 6
Height: 60’
Spread: 50’
Shape: Broadly oval to rounded
Foliage: Dark green
Fall Color: Yellow

An extremely vigorous west coast native, with leaves that can measure a foot across. Forms a broad canopy quickly, it is especially valuable for planting natural areas in its native range.

Acer miyabei

Rugged Ridge® Maple

Acer miyabei ‘JFS-KW3AMI’

Rugged Ridge® Maple

Zone: 4
Height: 55’
Spread: 40’
Shape: Upright oval
Foliage: Dark green
Fall Color: Yellow

Deeply furrowed, corky bark makes this the most impressive cultivar of the species that we have seen. More vigorous, with heavier caliper and more ornamental bark. Tough and adaptable, this is an easy tree for growers and a versatile large street tree for cities.

Acer miyabei

State Street® Maple

Acer miyabei ‘Morton’

State Street® Maple

Zone: 4
Height: 50’
Spread: 35’
Shape: Upright oval
Foliage: Dark green
Fall Color: Yellow

Think of this Morton Arboretum release as a turbo-charged, more hardy alternative to A. campestre. Rough corky bark and leaf shape are similar to Hedge Maple, but its stronger growth rate and ascending branch habit result in a larger mature size. Excellent drought and cold tolerance and clean, pest-free foliage.
Acer palmatum

Japanese Maple

Zone: 5
Height: 20'
Spread: 24'
Shape: Upright, then broadly spreading
Foliage: Green
Fall Color: Yellow-orange to orange-red

The green leafed, seedling grown Japanese Maple has fine textured foliage and a light airy appearance. It is generally faster growing and adapts to more difficult environments than the hundreds of cultivars which derive from it.

Acer palmatum ‘Bloodgood’

Bloodgood Japanese Maple

Zone: 5
Height: 18'
Spread: 18'
Shape: Upright, becoming broad topped with age
Foliage: Purple-red
Fall Color: Red

Widely used, well known, and reliable. Grown both as single-trunked and multi-stem trees, Bloodgood is the standard for comparison among the purple leaved, upright growing Japanese Maples.

Acer palmatum ‘Emperor I’

Emperor I® Japanese Maple

Zone: 5
Height: 18'
Spread: 16'
Shape: Upright, rounded, narrow
Foliage: Dark red
Fall Color: Scarlet red

Narrower in form and reputed to be more heat tolerant than Bloodgood, its foliage maintains its rich color through the heat of summer before turning bright scarlet red in autumn. Late to leaf out in spring, it’s a good choice where late frosts may damage tender spring foliage.

Acer palmatum ‘Shishigashira’

Shishigashira Japanese Maple

Zone: 6
Height: 15'
Spread: 10'
Shape: Upright vase
Foliage: Deep green, crinkled
Fall Color: Golden to orange-red

Commonly known as Lion’s Head Maple, this slow growing cultivar has unique, crinkly leaves. Interesting foliage coupled with compact growth make this an ideal small tree for patio or lawn.

Acer palmatum dissectum

Laceleaf Japanese Maple

Acer palmatum dissectum ‘Crimson Queen’

Crimson Queen Japanese Maple

Zone: 5
Height: 6'
Spread: 8'
Shape: Weeping, mounded
Foliage: Laceleaf, deep purple-red
Fall Color: Scarlet

Among the red laceleaf cultivars, the foliage of Crimson Queen is particularly heat resistant. Delicate leaves maintain their deep purple-red color through the summer months and turn scarlet in the fall.

Acer palmatum dissectum ‘Tamukeyama’

Tamukeyama Japanese Maple

Zone: 5
Height: 8'
Spread: 12'
Shape: Weeping
Foliage: Laceleaf, deep purple-red
Fall Color: Red

Tamukeyama is outstanding among the laceleaf weepers for its rich foliage color. Leaves hold their deep purple color through the heat of summer better than other cultivars.

Acer palmatum dissectum ‘Viridis’

Weeping Green Japanese Maple

Zone: 5
Height: 6'
Spread: 8'
Shape: Weeping, mounded
Foliage: Laceleaf, bright green
Fall Color: Golden orange

This green laceleaf weeper maintains a fresh, bright green appearance all summer. Finely cut leaves turn a brilliant golden orange in the fall.
Acer - Maple

### Acer platanoides

#### Norway Maple

#### Columnar Norway Maple

**Zone:** 4  
**Height:** 35'  
**Spread:** 15'  
**Shape:** Narrow, upright, with ascending branches  
**Foliage:** Dark green  
**Fall Color:** Yellow

True to its name, this cultivar produces a column of green foliage. It is ideal for street use where buildings demand a narrow tree. It develops stout branches which grow stiffly upward, almost parallel to the main stem, which gives it a bold appearance in winter.

#### Crimson King Maple

**Zone:** 4  
**Height:** 40'  
**Spread:** 35'  
**Shape:** Oval when young, becoming rounded  
**Foliage:** Deep purple  
**Fall Color:** Maroon to reddish-bronze

The most commonly used cultivar of the purple-leafed Norway Maples, Crimson King retains its purple foliage color well from spring until fall.

#### Crimson Sentry Maple

**Zone:** 4b  
**Height:** 25'  
**Spread:** 15'  
**Shape:** Compact and dense, pyramidal to oval  
**Foliage:** Deep purple  
**Fall Color:** Maroon to reddish-bronze

This bud sport of Crimson King shares the deep purple leaf color of its parent, but matures to a much smaller ultimate size. A very compact, heavily branched, upright tree.

#### Deborah Maple

**Zone:** 3b  
**Height:** 45'  
**Spread:** 40'  
**Shape:** Broadly oval to rounded  
**Foliage:** Reddish-purple in the spring, becoming dark bronze-green in the summer  
**Fall Color:** Bronze

Deborah is a beautiful tree in spring and early summer when new leaves unfold, red tinted then purplish as they expand. In summer the tree becomes dark bronze-green.

#### Princeton Gold® Maple

**Zone:** 4  
**Height:** 35'  
**Spread:** 30'  
**Shape:** Oval  
**Foliage:** Bright yellow  
**Fall Color:** Yellow

Princeton Gold® is characterized by yellow foliage, particularly bright on new growth. The overall coloration is similar to Sunburst® Honeylocust.

#### Emerald Queen™ Maple

**Zone:** 4  
**Height:** 50'  
**Spread:** 40'  
**Shape:** Dense oval, with upright spreading branches  
**Foliage:** Deep green, reddish tint in spring  
**Fall Color:** Yellow

Emerald Queen™ is probably the most widely used Norway Maple cultivar. In many respects it is the best green leafed selection. It forms a well shaped oval tree with good environmental tolerance and reliable yellow fall color.

#### Parkway® Maple

**Zone:** 3  
**Height:** 40'  
**Spread:** 25'  
**Shape:** Oval, with good central leader  
**Foliage:** Dark green  
**Fall Color:** Yellow

DISEASE RESISTANCE: Verticillium tolerant  
Parkway® is one of the best Norway Maples for city use because of its pyramidal to oval shape, well behaved branching and strong central leader. It has proven to be a healthy tree and is ideal for use along city streets and boulevards.
**Acer pseudosieboldianum**

**Korean Maple**

**Zone:** 4  
**Height:** 22'  
**Spread:** 18'  
**Shape:** Upright to upright spreading  
**Foliage:** Green  
**Fall Color:** Yellow-orange to bright red  

Very cold hardy yet delicate in appearance, this close relative of Japanese maple brings an oriental elegance to the northern garden. A little more upright than Japanese maple, it displays small reddish-purple flowers in spring and brightly colored foliage in autumn.

**Acer pseudosieboldianum × palm. ’Hasselkus’**

**Northern Glow® Maple**

**Zone:** 4  
**Height:** 20’  
**Spread:** 24’  
**Shape:** Upright, then broadly spreading  
**Foliage:** Green  
**Fall Color:** Bright orange-red to deep red  

Enjoy the refined character of Japanese maple beyond its traditional hardiness range with this hybrid selection. Developed in Madison, WI, by Dr. Ed Hasselkus, it originated from seed of the tough and cold-hardy Korean maple, but most resembles its *A. palmatum* parent. Attractive in summer green, its graceful, spreading form glows bright with fall colors.
Acer rubrum

Red Maple

Acer rubrum 'Autumn Flame'

Autumn Flame Maple

Zone: 3b  
Height: 35'  
Spread: 35'  
Shape: Dense, rounded with spreading branches  
Foliage: Medium green  
Fall Color: Bright red  
Fruit: Seedless

Autumn Flame is one of the hardiest of Red Maples, is seedless, and is the first to color in the fall. Although its color doesn’t hold as long as Red Sunset®, which colors about a week later, it reliably produces a brilliant red. Slower growing with smaller leaves than most, Autumn Flame produces a very symmetrical, rounded crown.

Acer rubrum 'Armstrong'

Armstrong Maple

Zone: 4  
Height: 45'  
Spread: 15'  
Shape: Narrow, fastigiate  
Foliage: Light green  
Fall Color: Yellow to orange-red

Armstrong is a fast growing columnar selection. It produces a very tall, narrow tree with ascending branches. It is widely used for street planting where space demands a tree which will not spread.

Acer rubrum 'JFS-KW78' PP 25301

Armstrong Gold® Maple

Zone: 4  
Height: 40'  
Spread: 12'  
Shape: Narrow, tightly fastigiate  
Foliage: Medium green  
Fall Color: Golden to orange

Selected from an evaluation of hundreds of seedlings of ‘Armstrong’, this cultivar improves greatly on the parent, with brighter foliage color, greater foliage density and compact, less leggy growth habit. Improved columnar form recommends it for narrow street planting sites.

Acer rubrum 'Bowhall'

Bowhall Maple

Zone: 4  
Height: 40'  
Spread: 15'  
Shape: Upright, very narrow  
Foliage: Medium green  
Fall Color: Yellow orange to bright red

Bowhall is a tightly formed, sturdy, narrow tree excellent for street plantings. It stays smaller than Armstrong and has better foliage color in both summer and fall.

Acer rubrum 'Brandywine'

Brandywine Maple

Zone: 4  
Height: 40'  
Spread: 30'  
Shape: Oval  
Foliage: Dark green  
Fall Color: Deep red  
Fruit: Seedless

Introduced by the National Arboretum, Brandywine is a cross of October Glory® and Autumn Flame. Seedless, it produces deep red fall color ten days later than most red maples and has proven to be well adapted in the South.

Acer rubrum 'Magnificent Magenta'

Burgundy Belle® Maple

Zone: 5  
Height: 45'  
Spread: 40'  
Shape: Oval to rounded  
Foliage: Dark green  
Fall Color: Deep burgundy

Spring foliage emerges with a red flush before maturing to dark green. Leaves turn bright red in autumn and deepen to burgundy in a long-lasting show of fall color. Of Kansas origin, this symmetrical shade tree demonstrates good tolerance of heat, drought and cold.

A slender column of deep green summer foliage transforms to candle-bright leaves in autumn. A perfect shade tree for space-challenged gardens and street-side plantings!

www.ArmstrongGoldMaple.com
**Acer rubrum ‘Karpick’**

**Karpick® Maple**

- Zone: 4
- Height: 40’
- Spread: 20’
- Shape: Narrow oval
- Foliage: Green
- Fall Color: Yellow to orange

Narrow when young, becoming oval with age, it has an excellent form for use as a street tree.

**Acer rubrum ‘Morgan’ C.O.P.F.**

**Morgan Maple**

- Zone: 4
- Height: 45’
- Spread: 40’
- Shape: Broadly oval
- Foliage: Medium green
- Fall Color: Orange-red to red, reliable

An extremely vigorous cultivar, it calipers well in the nursery. Selected at Macdonald College in Quebec, it colors very well even in mild climates.

**Acer rubrum ‘Northwood’**

**Northwood Maple**

- Zone: 3
- Height: 40’
- Spread: 35’
- Shape: Broaddrly oval to rounded
- Foliage: Medium to dark green
- Fall Color: Reddish

Selected from a Northern Minnesota seed source by the University of Minnesota, Northwood is probably the hardiest of the Red Maples. It has a straight trunk and good branch angles. Its fall color is not as reliable as some of the other Red Maples.

**Acer rubrum ‘October Glory’**

**October Glory® Maple**

- Zone: 5
- Height: 40’
- Spread: 35’
- Shape: Broadly oval to round
- Foliage: Medium green, glossy
- Fall Color: Deep red to reddish-purple

October Glory® is a round headed selection which is the last cultivar to color in the fall. While it is less cold hardy than most cultivars, it seems to be better adapted to areas with mild winters and hot summer temperatures.

**Acer rubrum ‘Red Rocket’**

**Red Rocket Maple**

- Zone: 3
- Height: 38’
- Spread: 15’
- Shape: Upright, narrow
- Foliage: Green
- Fall Color: Orange red to red
- Fruit: Seedless

Narrow and upright, this red maple appears to be as tight as Bowhall, but a little slower growing. From a Minnesota seed source, it is one of the most cold hardy cultivars. Fall color is very bright, orange red to red.

**Acer rubrum ‘Franksred’**

**Red Sunset® Maple**

- Zone: 4
- Height: 45’
- Spread: 35’
- Shape: Upright branching, oval
- Foliage: Dark green, glossy
- Fall Color: Brilliant orange-red to red

Highly rated and reliable, Red Sunset® has become the standard to which others are compared. Developed by J. Frank Schmidt, Jr., it is vigorous with a strong and symmetrical branching pattern. Lustrous, glossy green summer foliage changes to brilliant shades of red and orange-red in the fall.
**Redpointe® Maple**

Acer rubrum ‘Frank Jr.’ PP 16769

**Zone:** 5  
**Height:** 45’  
**Spread:** 30’  
**Shape:** Broadly pyramidal  
**Foliage:** Dark green  
**Fall Color:** Bright red

Brilliant red fall color plus upright, broadly pyramidal form make this Schmidt introduction a standout. The refined form and foliage of the best *Acer rubrum* cultivars combine with the faster growth rate normally found in *Acer × freemanii*. A straight and dominant central leader results in strong branch angles that make it easier to grow.

**Scarlet Sentinel® Maple**

Acer rubrum ‘Scarsen’

**Zone:** 4  
**Height:** 40’  
**Spread:** 20’  
**Shape:** Upright, rather narrow  
**Foliage:** Dark green  
**Fall Color:** Yellow-orange to orange-red

A strong upright branch pattern gives Scarlet Sentinel® an oval to rectangular outline and a bold appearance that makes it an excellent tree for streets and parking lots. Leaves are darker green and larger than those of other Red Maples, and they hold up well in summer heat.

**Sun Valley Maple**

Acer rubrum ‘Sun Valley’

**Zone:** 5b  
**Height:** 40’  
**Spread:** 35’  
**Shape:** Oval, symmetrical, densely branched  
**Foliage:** Dark green  
**Fall Color:** Bright red  
**Fruit:** Seedless

This U. S. National Arboretum introduction glows in the fall with reliable bright red color. A hybrid between Red Sunset® and Autumn Flame, it is seedless and features a very uniform, dense oval head.

**Silver Maple**

*Acer saccharinum*

**Zone:** 3  
**Height:** 50’  
**Spread:** 45’  
**Shape:** Oval, with strong upright spreading branches, becoming vase shaped with age  
**Foliage:** Medium green above, silvery beneath  
**Fall Color:** Yellow  
**Fruit:** Seedless

This fast growing tree tolerates tough conditions, under which other species might fail. It should be used where there is plenty of space for it to develop.

**Silver Queen Maple**

*Acer saccharinum* ‘Silver Queen’

**Zone:** 3  
**Height:** 55’  
**Spread:** 45’  
**Shape:** Oval with strong upright spreading branches, becoming vase shaped with age  
**Foliage:** Medium green above, silvery beneath  
**Fall Color:** Yellow  
**Fruit:** Seedless

A dominant central leader and better crotch angles promise improved storm resistance over Silver Maples grown from seed. Slender branches and upright, spreading form add refinement to this heat and cold tolerant, tough and durable shade tree.

**Redpointe® Maple delivers green**

A Redpointe® Maple leaf and the leaf of a popular red maple cultivar demonstrate its superior resistance to leaf chlorosis. Typical of *Acer rubrum* when grown on high pH soils, this yellowing of summer foliage is caused by manganese deficiency, a condition often found in high pH soils. Leaves were plucked from trees growing in adjacent rows of a Midwest customer’s nursery. Heat tolerance is also excellent: It seems the hotter the summer days, the darker green the foliage becomes.
Acer saccharum

Sugar Maple

One of the finest trees for fall color. Somewhat slow growing but long lived, it acquires a stateliness all its own.

Acer saccharum ‘Barrett Cole’

Apollo® Maple

INSECT RESISTANCE: Japanese beetle

Unique narrowness, dense branching and symmetrical compact form make this dwarf and columnar Sugar Maple ideal for limited spaces. Dark green foliage withstands summer heat.

Acer saccharum ‘JFS-KW8’ PP 22034

Autumn Fest® Maple

Strong upright growth and reliable, early fall color make this a standout in the nursery and on the streets. Vigorous, with a good central leader, it is faster growing with a more upright shape than typical of sugar maples.

Acer saccharum ‘Commemoration’

Commemoration® Maple

This rapid growing Sugar Maple has thick, heavy leaves that are resistant to leaf tatter. It branches well as a young tree and develops good caliper.

Acer saccharum ‘Morton’

Crescendo™ Maple

Coming from the western range of the Sugar Maple and selected at Morton Arboretum, this tree features tough, heat resistant foliage and good orange red fall color.

Acer saccharum ‘Endowment’

Endowment Maple

A columnar growth habit makes this cultivar well suited for street planting. Dark green foliage turns bright yellow in the fall.

Acer saccharum ‘Bailsta’ PP 11119

Fall Fiesta® Maple

INSECT RESISTANCE: Japanese beetle

Sturdy and compact when young, this cultivar matures to become a full size specimen with an especially symmetrical crown and thick dark green summer foliage. Autumn brings on a mix of orange, red, and yellow colors.
Dark green, heat resistant leaves cast cool summer shade before turning the brightest red color of any sugar maple adapted to Southern growing conditions.

Vigorous growth, open branch angles, a strong central leader and improved mildew resistance recommend it as the best of the cultivars originating from seed collected in the Caddo Mountains of western Oklahoma.

Selected from Caddo Mountain sugar maple seedlings, this tree has the brightest red fall color we have seen in a cultivar adapted to Southern heat. It features dark green summer foliage, better mildew resistance than other Caddo selections, strong growth, and brilliant red, early fall color.

Green Mountain® Maple

Selected from the westernmost native population of sugar maple in the northern U.S., this hardy selection features vigorous, straight growth, thickly textured leaves, and bright orange-red fall color. This North Dakota State University introduction is tolerant of both cold and drought.

Legacy® Maple

Symmetrical and rounded in form, this heat resistant sugar maple of small stature is at home in the southern plains. Selected by horticulturist Dr. John Pair from the heat resistant Caddo County, Oklahoma seed source, its foliage stands up to summer heat.

Legacy produces a very symmetrical oval crown. This, combined with its glossy dark green leaves makes it one of the most handsome Sugar Maples in summer. Its leaves are quite tough and resist leaf tatter and drought.

INSECT RESISTANCE: Japanese beetle

INSECT RESISTANCE: Japanese beetle

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INSECT RESISTANCE: Japanese beetle

Selected from seed collected in the Caddo Mountains of western Oklahoma.
Acer saccharum 'Hiawatha 1'
Oregon Trail® Maple

Zone: 5
Height: 45’
Spread: 40’
Shape: Broadly oval to rounded
Foliage: Dark green
Fall Color: Yellow-orange to red

A tree with a story, this cultivar was chosen from hundreds of brightly colored sugar maples planted in Hiawatha, KS, "The City of Beautiful Maples." It’s a tough Kansas native growing along the Oregon Trail, with strong branch structure, prairie resistant foliage, and great fall color.

Acer saccharum 'Sugar Cone'
Sugar Cone Maple

Zone: 4
Height: 25’
Spread: 13’
Shape: Compact dwarf pyramid
Foliage: Dark green
Fall Color: Orange-red

Dense, compact, and pyramidal, this descriptively named tree is the most dwarf of the sugar maple we offer. It stays small and tight and will not outgrow its planting location.

Acer saccharum 'Wright Brothers'
Wright Brothers Maple

Zone: 3
Height: 50’
Spread: 35’
Shape: Oval
Foliage: Green
Fall Color: Yellow-orange to red

Fast growing, hardy and reported to be resistant to scorch and frost cracking. Fall color is a bright mix of yellow, orange, and red.

Acer tataricum 'GarAnn' PP 15023
Hot Wings® Maple

Zone: 3
Height: 20’
Spread: 24’
Shape: Rounded, spreading
Foliage: Medium green
Fall Color: Yellow to red
Flower: White, clusters in May
Fruit: Bright red samaras

Showy red samaras (winged seeds) shine in bright contrast to the summer foliage of this small tree that is an excellent performer in rugged climates. Broadly oval when young, its branches spread wider than tall, becoming rounded at maturity.

Acer tataricum 'JFS-KW2'
Rugged Charm® Maple

Zone: 3
Height: 28’
Spread: 15’
Shape: Compact upright oval
Foliage: Medium green
Fall Color: Yellow-orange to red
Flowers: White clusters in May
Fruit: Attractive red samaras

Compact and oval in form, the shapely canopy of this refined selection is a charming improvement over the hardy and rugged species! Bright red seed wings float in bright contrast against summer’s green leaves. Come autumn, the boldly textured foliage shows off a rich mix of yellow, orange, and bright red.
Acer truncatum

**Shantung Maple**

*Acer truncatum x A. plat. 'JFS-KW202' PP 21838*

**Crimson Sunset® Maple**

Zone: 4br
Height: 35’
Spread: 25’
Shape: Upright oval
Foliage: Deep purple
Fall Color: Maroon to reddish bronze

Heat tolerance is the distinguishing characteristic of this *Acer truncatum* hybrid. Its foliage resembles that of Crimson King, but its form is more upright and compact. Thanks to the *Acer truncatum* parentage, it flourishes in the summer heat where few purple leaved plants will grow.

**Norwegian Sunset® Maple**

Zone: 4b
Height: 35’
Spread: 25’
Shape: Oval
Foliage: Dark green, glossy
Fall Color: Yellow-orange to red

INSECT RESISTANCE: Japanese beetle

An upright oval tree with yellow-orange to red fall color. Norwegian Sunset® has a particularly nice branch structure and uniform canopy. Its *Acer truncatum* parentage gives glossy foliage and heat resistance.

**Pacific Sunset® Maple**

Zone: 4b
Height: 30’
Spread: 25’
Shape: Upright spreading, rounded crown
Foliage: Dark green, smooth, very glossy
Fall Color: Yellow-orange to bright red

INSECT RESISTANCE: Japanese beetle

Outstanding glossy summer foliage changes to tints of yellow, red, and orange in the fall. Pacific Sunset® colors earlier and a little brighter than Norwegian Sunset®. Branch structure is a little finer textured and more spreading than Norwegian Sunset®.

**Ruby Sunset® Maple**

Zone: 4b
Height: 25’
Spread: 20’
Shape: Broadly oval to rounded
Foliage: Dark green, glossy
Fall Color: Deep red

Elegant foliage stays fresh and glossy throughout the growing season. Hybrid origin adds cold hardness and adaptability to this selection that most resembles *A. truncatum* in appearance, growth habit and size. A great choice for smaller sites requiring a more compact tree.

**Urban Sunset® Maple**

Zone: 4b
Height: 35’
Spread: 20’
Shape: Narrow pyramidal to upright oval
Foliage: Dark green, glossy
Fall Color: Deep red

Compact, upright and narrow, this tree calipers well and develops a naturally uniform canopy with minimal pruning. Easy to grow and relatively problem free, it produces few seeds and develops an ideal, upright street tree form.

**Aesculus**

**Buckeye**

*Aesculus flava*

**Yellow Buckeye**

Zone: 4
Height: 60’
Spread: 45’
Shape: Upright oval
Foliage: Dark green, palmately compound
Fall Color: Yellow-orange
Flower: Yellow, in 7” long clusters

Native to the central Appalachian Mountains and Ohio Valley, this is the largest growing and most magnificent of the buckeyes.

Shade your landscape with style! Glossy, heat resistant foliage defies heat and humidity by maintaining its rich, deep purple color through the summer months.

www.CrimsonSunsetMaple.com
**Aesculus**

*Aesculus hippocastanum* ‘Baumannii’

**Baumann Double Horsechestnut**

Zone: 4
Height: 50’
Spread: 40’
Shape: Broadly oval

Foliage: Dark green, palmately compound
Fall Color: Yellow

Flower: Large double white upright panicles

Fruit: Seedless

Profuse, showy blooms that outlast those of the species are sterile. Large panicles of double white flowers show slight tints of red and yellow. Seedless character makes it the favorite horsechestnut for street planting.

*Aesculus × carnea* ‘Briotii’

**Briotii Red Horsechestnut**

Zone: 4
Height: 30’
Spread: 35’
Shape: Round

Foliage: Dark green, palmately compound

Flower: Red, in 10” long clusters

A slow growing, densely branched deciduous tree with a rounded, pyramidal form. Displays a profusion of deep pink to red flower clusters in spring. Produces few, if any seed pods.

*Aesculus × carnea* ‘Fort McNair’

**Fort McNair Horsechestnut**

Zone: 4
Height: 32’
Spread: 30’
Shape: Rounded

Foliage: Dark green, palmately compound
Fall Color: Yellow

Flower: Pink with yellow throat, in panicles

Selected from the grounds of Fort McNair in Washington DC, this cultivar boasts improved resistance to leaf blotch disease and beautiful panicles of pink flowers in the spring.

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**Amelanchier**

*Amelanchier canadensis*

**Shadbale Serviceberry**

Zone: 3
Height: 10’
Spread: 6’
Shape: Multi-stemmed shrub

Foliage: Green

Fall Color: Yellow to red

Flower: White, small, in clusters

Fruit: Edible, purplish blue, 1⁄4”

A multi-stemmed strongly upright large shrub, native to the eastern U.S. and tolerant of wet soils.

*Amelanchier × grandiflora* ‘Autumn Brilliance’

**Autumn Brilliance® Serviceberry**

Zone: 4
Height: 20’
Spread: 15’
Shape: Upright, moderately spreading

Foliage: Medium, green

Fall Color: Bright red

Flower: White, in clusters

Fruit: Edible, purplish blue, ¼”

An excellent Amelanchier with good form and strong branching. It displays reliable spring bloom and bright fall colors.

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**Alnus**

*Alnus glutinosa*

**Black Alder**

Zone: 4
Height: 50’
Spread: 30’
Shape: Broadly pyramidal

Foliage: Dark green

Black alder is a fast growing tree for tough sites. It fixes nitrogen, thus it can grow in infertile soil, and it will tolerate extremely wet sites.

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Elegant, high-gloss, heat and pest resistant foliage is borne on upright, symmetrical branches. With minimal pruning and maintenance, it develops a naturally uniform canopy and ideal street tree form.

www.UrbanSunsetMaple.com

Glossy, sharply lobed leaves emerge purple-tinged and bright. This adaptable, cold-hardy and heat-resistant tree is perfect for tough growing conditions and smaller planting sites.

www.RubySunsetMaple.com
Amelanchier - Serviceberry

Amelanchier laevis 'JFS-Arb' PP 15304
Spring Flurry® Serviceberry

Zone: 4
Height: 28'
Spread: 20'
Shape: Upright oval
Foliage: Medium green
Fall Color: Orange
Flower: White, in clusters
Fruit: Edible, purplish blue, ¾"

A street tree Amelanchier! This Schmidt introduction has exceptional tree form. A dominant central leader supports strongly upward-oriented scaffold branches. Pure white blooms smother a delicate latticework of twigs in spring. These give way to healthy green foliage that turns orange in the fall.

Amelanchier grandiflora 'Princess Diana'
Princess Diana Serviceberry

Zone: 3
Height: 20'
Spread: 15'
Shape: Gracefully spreading
Foliage: Small, green
Fall Color: Brilliant red
Flower: White, in clusters
Fruit: Edible, purplish blue, ¾"

A gracefully spreading small tree with excellent fall color. Fall foliage is spectacular, coloring early and lasting late in the season.

Amelanchier laevis
Allegheny Serviceberry

Zone: 4
Height: 25'
Spread: 15'
Shape: Upright, oval, irregular
Foliage: Small, green
Fall Color: Orange
Flower: White, in clusters
Fruit: Edible, purplish blue, ¾"

Grown both as tree form and multi-stem. It is a little taller, more upright, and more “tree-like” than most Amelanchier species.

Amelanchier laevis ‘Snowcloud’
Snowcloud Serviceberry

Zone: 4
Height: 28'
Spread: 20'
Shape: Upright, oval, good tree form
Foliage: Dark green, red tint in spring
Fall Color: Scarlet
Flower: White in clusters
Fruit: Edible, ⅛", purplish blue

Selected for upright, tree form growth, this strong growing serviceberry makes a good small street tree.

Asimina triloba
Pawpaw

Zone: 5
Height: 25'
Spread: 15'
Shape: Rounded
Foliage: Medium to dark green
Fall Color: Golden yellow
Flower: Maroon, bell-shaped
Fruit: Green, brown when ripe, 2-4” oblong, edible

This adaptable, easy-care North American native tree attracts wildlife while delivering shade, flowers, fruit and fall color. Protein and vitamin-rich oblong brown fruits are reminiscent of banana custard in taste and texture. For fruit production, plant two or more to ensure cross-pollination.

INSECT RESISTANCE:
Japanese beetle

Betula nigra
River Birch

Zone: 4
Height: 40'
Spread: 35'
Shape: Broadly pyramidal
Foliage: Glossy dark green
Fall Color: Yellow

Unusually white bark of this true river birch rivals that of B. papyrifera and other white-barked beauties. Glossy dark green foliage shines through the growing season, and then turns golden yellow. From a native stand in Oklahoma, it shows increased tolerance of heat and drought.

INSECT RESISTANCE:
Bronze birch borer, Japanese beetle

City Slicker® Birch

Zone: 5
Height: 35'
Spread: 25'
Shape: Broadly pyramidal
Foliage: Glossy dark green
Fall Color: Yellow

INSECT RESISTANCE:
Partial resistance to leaf miner

Jacquemontii Birch

Zone: 5
Height: 40'
Spread: 30'
Shape: Upright oval
Foliage: Dark green, thick, glossy
Fall Color: Yellow

This tree has the whitest bark of all the birches. Its trunk seems to almost glow when the tree is planted among darker foliaged plant material.

INSECT RESISTANCE:
Japanese beetle

Betula nigra 'Whit XXV' PP16573

INSECT RESISTANCE:
Japanese beetle

Royal Frost® Birch

Zone: 4
Height: 40'
Spread: 25'
Shape: Pyramidal
Foliage: Purple-bronze
Fall Color: Yellow-orange to reddish

INSECT RESISTANCE:
Japanese beetle

A hybrid of Crimson Frost and Whitespire, this tree combines purple-bronze foliage with an upright pyramidal growth habit. It maintains a strong leader and shows better caliper development and density than other purple leaf birch.
**Betula nigra** ‘Dickinson’

**Northern Tribute® Birch**

- **Zone:** 3
- **Height:** 35’
- **Spread:** 30’
- **Shape:** Upright oval
- **Foliage:** Lustrous dark green
- **Fall Color:** Yellow

**INSECT RESISTANCE:** Bronze birch borer

Superior cold hardiness and adaptability to compacted, dry and varied soils including alkaline. Selected from a large, vigorous seedling found in western North Dakota and introduced by NDSU. Smooth ivory-white bark exfoliates in coppery bronze curls.

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**Betula nigra** ‘Shiloh Splash’ PP 16362

**Shiloh Splash Birch**

- **Zone:** 5
- **Height:** 10’
- **Spread:** 8’
- **Shape:** Rounded, shrubby small tree
- **Foliage:** Variegated, cream-yellow and green
- **Fall Color:** Yellow

**INSECT RESISTANCE:** Bronze birch borer

Brightly variegated foliage graces this diminutive birch. Outer portions of the leaves are cream white to yellow, while the center remains green. The tree has smaller leaves than typical of the species and is much smaller at maturity.

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**Betula papyrifera**

**Paper Birch**

- **Zone:** 3
- **Height:** 50’
- **Spread:** 35’
- **Shape:** Oval
- **Foliage:** Dark green
- **Fall Color:** Yellow

In cooler climates, this is the most permanent and desirable of all white barked birches. Slow to turn white, but a perfect chalk-white when older. Beautiful as a single stem tree or clump form.

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**Betula pendula** ‘Dalecarlica’

**Cutleaf Weeping Birch**

- **Zone:** 2
- **Height:** 40’
- **Spread:** 20’
- **Shape:** Narrowly oval with slender branches with weeping tips
- **Foliage:** Dark green
- **Fall Color:** Yellow

**INSECT RESISTANCE:** Japanese beetle

Although it becomes a relatively large tree, slender branches always give it a graceful, delicate appearance. Hardy enough to do well in the Rocky Mountain states.

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**Betula nigra** ‘BNMTF’

**Dura-Heat® Birch**

- **Zone:** 6
- **Height:** 40’
- **Spread:** 30’
- **Shape:** Broadly pyramidal
- **Foliage:** Glossy dark green
- **Fall Color:** Yellow

**INSECT RESISTANCE:** Bronze birch borer

Heat resistant, glossy, deep green foliage gives this cultivar a fresh look through the heat of the summer, even in the southern U.S. It branches freely, giving it a better density and a more compact appearance than the species. Attractive exfoliating bark is a medley of cream and tan colors.

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**Betula nigra** ‘Cully Improved’

**Heritage® Improved Birch**

- **Zone:** 4
- **Height:** 40’
- **Spread:** 28’
- **Shape:** Broadly pyramidal
- **Foliage:** Medium green
- **Fall Color:** Yellow

**INSECT RESISTANCE:** Bronze birch borer

This selection of river birch was originally found growing at the J. C. Raulston Arboretum. Differs from the original Heritage® with slightly more pyramidal form but less glossy foliage.

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**Betula nigra** ‘Cully’

**Heritage® Birch**

- **Zone:** 4
- **Height:** 40’
- **Spread:** 30’
- **Shape:** Broadly pyramidal
- **Foliage:** Light green, glossy
- **Fall Color:** Yellow

**INSECT RESISTANCE:** Bronze birch borer

A selection of River Birch chosen for its lighter colored bark and large, glossy, light green leaves. The peeling bark exposes mottled patches of cream, orange and pinkish tan colors.

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**Betula papyrifera** ‘Renci’ PP 12768

**Renaissance Reflection® Birch**

- **Zone:** 3
- **Height:** 50’
- **Spread:** 25’
- **Shape:** Upright pyramidal
- **Foliage:** Dark green
- **Fall Color:** Yellow

**INSECT RESISTANCE:** Bronze birch borer

This cultivar was selected by Tom Pinney Jr. for its upright pyramidal shape, brilliant white bark, and high resistance to bronze birch borer. It’s faster growing than typical of the species and produces a narrower crown.

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**Betula nigra** ‘Shiloh Splash’

**Shiloh Splash Birch**

- **Zone:** 5
- **Height:** 20’
- **Spread:** 30’
- **Shape:** Upright
- **Foliage:** Lustrous dark green
- **Fall Color:** Yellow

**INSECT RESISTANCE:** Bronze birch borer

Adaptability, stress tolerance, dark green foliage and exfoliating snow-white bark are winning attributes of this Great Plains native birch. A cold hardy selection from seed of Killdeer Mountain, ND and introduced by North Dakota State University.
**Betula populifolia** 'Whitespire Sr.'

**Whitespire Sr. Birch**

**Zone:** 4  
**Height:** 40'  
**Spread:** 25'  
**Shape:** Pyramidal to oval  
**Foliage:** Dark green glossy leaves  
**Fall Color:** Yellow

**INSECT RESISTANCE:**  
Bronze birch borer, Japanese beetle  
Whitespire “Senior” is vegetatively propagated directly from the original, superior tree in Wisconsin.

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**Betula platyphylla** 'Fargo' PP 10963

**Dakota Pinnacle® Birch**

**Zone:** 3  
**Height:** 40'  
**Spread:** 15'  
**Shape:** Narrowly pyramidal  
**Foliage:** Dark green  
**Fall Color:** Yellow

**INSECT RESISTANCE:**  
Japanese beetle  
Developed by North Dakota State University, this very cold hardy birch is well adapted to the tough climate of the northern plains. A stiffly upright, narrowly pyramidal form, combined with dense, dark green foliage and white bark give it a striking appearance.

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**Betula platyphylla** 'Jefpark' PP 25468

**Parkland Pillar™ Birch - First Editions®**

**Zone:** 3  
**Height:** 30'  
**Spread:** 8'  
**Shape:** Narrow, columnar  
**Foliage:** Dark green  
**Fall Color:** Yellow

**INSECT RESISTANCE:**  
Japanese Beetle  
A fast growing very cold hardy tree well suited to the prairie & urban landscape. Tolerant of heat, drought and alkaline soils. Forms a narrow column of dense dark green foliage that turns golden yellow in the fall, revealing its white bark during the winter months. An excellent accent or screen tree.

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**Caragana arborescens** ‘Pendula’

**Weeping Siberian Peashrub**

**Zone:** 2  
**Height:** 15'  
**Spread:** 15'  
**Shape:** Weeping  
**Foliage:** Pinnately compound, bright medium green  
**Flower:** Small, bright yellow  
**Fall Color:** Yellow

A very cold hardy plant, able to withstand some of the most difficult sites. Well adapted to drought and poor or alkaline soil. Attractive spring flowers and summer foliage.

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**Carpinus betulus** ‘Fastigiata’

**Pyramidal European Hornbeam**

**Zone:** 5  
**Height:** 35'  
**Spread:** 25'  
**Shape:** Dense and compact, narrow when young, becoming oval  
**Foliage:** Dark green  
**Fall Color:** Yellow

Symmetrical and formal in appearance. It is heat and drought resistant, and seems to be relatively free of disease and pest problems.
A stout trunk, strong central leader, and sturdy branch arrangement led to our nicknaming this brawny tree “The Hulk.” Vigorous and easy to grow, its performance is impressive on the street. When others look tired during the dog days of summer, Emerald Avenue® maintains healthy deep green foliage, thanks to its superior heat tolerance.

Native Flame® brings a winning combination of dependably bright red fall color, upright growth habit and predictable form to cityscapes. Among the first cultivars selected from this versatile and variable native species, our gracefully informal selection is a top choice for landscape use.

Palisade® forms an upright oval canopy with ascending branches and excellent density. It brings a uniform street tree appearance to an otherwise variable species. Attractive sinewy gray bark forms on mature trees.

A lively mix of bright red and orange fall colors and distinctive columnar shape combine to offer a new look for a popular and widely adaptable North American native tree. Growers will appreciate its vigorous yet mannerly growth habit and ease of care in the nursery. Ontario, Canada origin promises good cold hardiness.
Catalpa × erubescens 'Purpurea'

Purple Catalpa

Zone: 5
Height: 45'
Spread: 40'
Shape: Rounded
Foliage: Purple in spring
Fall Color: Yellow
Flower: Large white panicles

This Catalpa leaves out in spring with beautiful deep purple leaves that unfurl to a huge size. Large panicles of yellow and purple-spotted white flowers crown the canopy in late spring as the foliage begins its transition to bronze-green summer color.

Celtis occidentalis

Hackberry

Zone: 3
Height: 45'
Spread: 35'
Shape: Broad top with ascending, then arching branches
Foliage: Light green
Fall Color: Yellow

Tolerant of harsh climatic conditions as well as urban abuse, this deep rooted tree rarely lifts sidewalks. The rough, corky bark adds interest and resists damage.

Cedrus atlantica 'Glaucia'

Blue Atlas Cedar

Zone: 6
Height: 60'
Spread: 40'
Shape: Pyramidal, open
Foliage: Silvery blue

A handsome specimen tree, this blue selection can be a truly beautiful plant, especially in an area with ample turf where it can develop naturally.

Celtis occidentalis 'JFS-KSU1'

Prairie Sentinel® Hackberry

Zone: 4
Height: 45'
Spread: 12'
Shape: Tightly fastigiate, columnar
Foliage: Medium green
Fall Color: Yellow

This fastigiate hackberry fills the need for a columnar tree for narrow city streets in the toughest climates. Discovered in the rugged high plains of western Kansas, it has great adaptability to heat, drought, and cold of the prairie and harsh urban sites.

Celtis occidentalis

Hackberry

Zone: 3
Height: 45'
Spread: 35'
Shape: Broad top with ascending, then arching branches
Foliage: Light green
Fall Color: Yellow

Celtis 'Magnifica'

Magnifica Hackberry

Zone: 5
Height: 50'
Spread: 40'
Shape: Broadly oval to vase
Foliage: Medium green
Fall Color: Yellow

This Hackberry selection develops a large, arching canopy similar to that of an Elm. Thought to be a hybrid of *C. occidentalis* and *C. laevigata*, it exhibits faster growth and better insect resistance than its parents.

Catalpa speciosa

Northern Catalpa

Zone: 5
Height: 50'
Spread: 35'
Shape: Pyramidal with rounded top, open structure
Foliage: Medium green, large leaves
Fall Color: Yellow-green
Flower: White, in large clusters

A native of the central United States and known for its tolerance of tough conditions, especially heat and drought. Its branch structure presents a bold, rugged appearance.

Catalpa speciosa ‘Hiawatha 2’

Heartland® Catalpa

Zone: 5
Height: 50'
Spread: 25'
Shape: Upright narrow oval
Foliage: Dark green, large leaves
Fall Color: Yellow-green
Flower: White, in large clusters

Narrow form, upright growth habit, uniform branching, and darker green foliage recommend this improved selection of our native Northern Catalpa. Easier to grow in the nursery, it is more suitable for most landscape and street uses than seedling-grown trees of the species.

Celtis

Hackberry
Cercidiphyllum

**Katsura Tree**

**Cercidiphyllum japonicum**

- **Zone:** 5
- **Height:** 40'
- **Spread:** 40'
- **Shape:** Upright and pyramidal when young, rounded with age
- **Foliage:** Bluish-green
- **Fall Color:** Yellow or apricot orange

A tree of variable form: Single stem trees are usually upright when young, while multi-stem plants are usually spreading. The beautiful heart shaped foliage and the delicate, fine texture make this tree an eye catcher in parks and gardens.

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**Cercis - Redbud**

**Cercis canadensis**

- **Zone:** 5
- **Height:** 25'
- **Spread:** 30'
- **Shape:** Multi-stem or low branching tree. Somewhat flat-topped
- **Foliage:** Medium green
- **Fall Color:** Yellow
- **Flower:** Reddish purple in bud, rosy-pink when open

The profuse flowers that bloom in April or May before the leaves develop make this a spring favorite. It is attractive as a tree for naturalized garden areas or as a graceful addition to a small yard.

**Cercis canadensis 'Appalachian Red'**

**Appalachian Red Redbud**

- **Zone:** 5
- **Height:** 20'
- **Spread:** 25'
- **Shape:** Multi-stem or low branched, spreading
- **Foliage:** Dark green
- **Fall Color:** Yellow
- **Flower:** Bright pink

This cultivar has the brightest flowers we have seen in an Eastern redbud. Magenta buds open to shockingly bright pink blooms, often described as neon pink or hot pink, quite different from the lavender tinted soft pink more typically seen in the species. It flowers heavily and has excellent dark green summer foliage.

**Cercis canadensis 'Forest Pansy'**

**Forest Pansy Redbud**

- **Zone:** 5
- **Height:** 20'
- **Spread:** 25'
- **Shape:** Upright spreading branches, rounded
- **Foliage:** Deep purple paling to bronze-green
- **Fall Color:** Orange
- **Flower:** Magenta rose

A highly prized red-leaved selection of Eastern Redbud. Delicate magenta rose flowers appear before the foliage. New growth is exceptionally glossy.

**Cercis canadensis 'Morton'**

**Joy's Pride™ Redbud**

- **Zone:** 5
- **Height:** 15'
- **Spread:** 20'
- **Shape:** Oval to spreading
- **Foliage:** Green, heart-shaped
- **Fall Color:** Yellow
- **Flower:** Bright lavender pink

Bright blooms bring joy to Morton Arboretum visitors, where Joy's Pride™ was discovered and named for the arboretum’s founder, Joy Sterling Morton. Proven reliably cold hardy by Chicagoland winters in which temperatures have plunged as low as -34 °F.

**Cercis canadensis 'Merlot' PP 22297**

**Merlot Redbud**

- **Zone:** 5
- **Height:** 18'
- **Spread:** 20'
- **Shape:** Upright spreading, rounded
- **Foliage:** Glossy, deep purple becoming bronze purple
- **Fall Color:** Yellow
- **Flower:** Magenta rose

Compact form and glossier, more heat resistant leaves than those of Forest Pansy suggest better performance in warm climates. Selected from the second generation of a cross of ‘Texas White’ x ‘Forest Pansy’ by Dennis Werner of NCSU.
Cercis - Redbud

Cercis canadensis ‘Pink Heartbreaker’ PP 23043

Pink Heartbreaker Redbud

Zone: 5  
Height: 12’  
Spread: 8’  
Shape: Weeping, spreading  
Foliage: Dark green  
Fall Color: Yellow  
Flower: Lavender pink

Lavender pink flower clusters cling tightly to the weeping branches of this vigorous, heat and drought tolerant cultivar. Spring growth flushes red and matures to dark green. Form is wider spreading and more irregular in branch habit than Lavender Twist®.

Cercis canadensis ‘Pink Pom Poms’ P.A.F.

Pink Pom Poms Redbud

Zone: 6b  
Height: 20’  
Spread: 15’  
Shape: Rounded  
Foliage: Glossy green  
Fall Color: Yellow  
Flower: Reddish purple, double  
Fruit: Seedless

Uniquely double-petaled flowers are borne in dense, pendulous clusters along bare branches in early spring. This hybrid of double-flowered C. canadensis ‘Flame’ and C. texensis ‘Oklahoma’ was developed at North Carolina State University by Dr. Dennis Werner.

Cercis canadensis ‘Ruby Falls’ PP22097

Ruby Falls Redbud

Zone: 5  
Height: 8’  
Spread: 6’  
Shape: Weeping  
Foliage: Deep purple, glossy  
Fall Color: Yellow-bronze  
Flower: Rose purple

Pendulous branches laden with clusters of rose purple blooms tumble from the trunk of this petite weeping tree in early spring. Glossy, deep purple, heart-shaped leaves soon follow. This NC State University selection blends the best features of its popular parents, Lavender Twist® and Forest Pansy.

Cercis texensis ‘Oklahoma’

Oklahoma Redbud

Zone: 6  
Height: 20’  
Spread: 25’  
Shape: Upright spreading to rounded  
Foliage: Glossy, leathery  
Fall Color: Yellow  
Flower: Bright magenta pink, profuse  
Fruit: Sparse

This extremely cold hardy selection discovered in central South Dakota brings bright pink blooms to prairie and mountain landscapes. Introduced by North Dakota State University, its dark green, leathery leaves are heat resistant and wind tolerant.

Chamaecyparis

Falsecypress

Chamaecyparis nootkatensis ‘Pendula’

Weeping Alaskan Cedar

Zone: 5  
Height: 30’  
Spread: 10’  
Shape: Narrow, conical  
Foliage: Light green

A gracefully weeping top and pendulous branches cascade from an upright central trunk to create a remarkable sculptural landscape specimen.

Chionanthus

Fringe Tree

Chionanthus virginicus

Fringe Tree

Zone: 4  
Height: 18’  
Spread: 20’  
Shape: Oval to spreading  
Foliage: Medium to dark green  
Fall Color: Yellow  
Flower: Small greenish-white flowers borne in clusters, fragrant

In late spring, masses of fragrant and feathery blooms cover the branches of this tree whose Latin name translates to “Snow Flower.” Adaptable to varied soils and climates, and quite tolerant of urban conditions.

Chionanthus retusus

Chinese Fringe Tree

Zone: 5  
Height: 20’  
Spread: 20’  
Shape: Broadly oval  
Foliage: Deep green  
Fall Color: Bright yellow  
Flower: White, snow-like, in large clusters

This small ornamental has multi-season appeal. In late spring, snow white flowers cover the branch tips. Dark green summer foliage changes to bright yellow in the fall. Winter brings emphasis to attractive gray bark on the trunk and lower branches.

www.jfschmidt.com
**Cornus**

**Cornelian Cherry**

**Zone:** 5  
**Height:** 18’  
**Spread:** 22’  
**Shape:** Low branched, rounded  
**Foliage:** Glossy dark green  
**Fall Color:** Slight to reddish purple.  
**Flower:** Small, yellow, in masses  
**Fruit:** Bright red, cherry like

In form and fruit, this tree could be mistaken for a crabapple. Its exfoliating bark and masses of bright yellow flowers that appear very early in the spring make it unique.

**Cladrastis**

**Yellowwood**

**Cladrastis kentukea**

**Yellowwood**

**Zone:** 4  
**Height:** 30’  
**Spread:** 40’  
**Shape:** Round  
**Foliage:** Bright green  
**Fall Color:** Brilliant yellow  
**Flowers:** White, in long clusters, fragrant

Showy cascades of fragrant white pea-like blooms are spectacular in May and June. Compound leaves and arching branches give an elm-like shape to this urban-tolerant native shade tree.

**Cladrastis kentukea ‘Perkins Pink’**

**Perkins Pink Yellowwood**

**Zone:** 4  
**Height:** 30’  
**Spread:** 30’  
**Shape:** Round  
**Foliage:** Green leaflets, compound  
**Fall Color:** Yellow  
**Flower:** Pink, in pendulous chains

Wisteria-like chains of fragrant, pale pink flowers, 10-15 inches in length, are showstoppers in late spring. Refined, compound leaves cast dappled shade. Deep-rooted and tolerant of dry soils and acid to alkaline growing conditions.
### Dogwood Quick Reference

<table>
<thead>
<tr>
<th>Variety</th>
<th>Zone</th>
<th>H</th>
<th>W</th>
<th>Flower</th>
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<td></td>
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<td>20'</td>
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<td>Green</td>
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<td>Cloud 9</td>
<td>5</td>
<td>15'</td>
<td>20'</td>
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<td>Glossy green</td>
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<td>30'</td>
<td>40'</td>
<td>White, in flat topped clusters</td>
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</tbody>
</table>

See this chart with color photos and more information at www.jfschmidt.com/dogwoods
**Cornus kousa chinensis**  
**Chinese Kousa Dogwood**

- **Zone:** 5
- **Height:** 20’
- **Spread:** 20’
- **Shape:** Wide vase to rounded, layered branches
- **Foliage:** Medium green
- **Fall Color:** Reddish
- **Flower:** White

Four large white bracts form star shaped “flowers” in June. An unusual and beautiful dogwood that is hardier, more drought tolerant and disease resistant than *C. florida.*

---

**Cornus florida**  
**Cloud 9 Dogwood**

- **Zone:** 5
- **Height:** 15’
- **Spread:** 20’
- **Shape:** Spreading, broadly rounded crown
- **Foliage:** Green
- **Fall Color:** Red
- **Flower:** White

Heavy production of large white flowers at an early age. The rounded flower bracts are overlapping and give a clean white appearance.

---

**Cornus florida**  
**Prairie Pink Dogwood**

- **Zone:** 6
- **Height:** 20’
- **Spread:** 20’
- **Shape:** Upright spreading, rounded crown
- **Foliage:** Glossy green
- **Fall Color:** Orange red to purple red
- **Flower:** Light pink

Soft pink flowers cover the tree in spring and give way to thick glossy leaves that resist the tough climate of the plains. Selected at Kansas State University as a top performer for the Great Plains.

---

**Cornus kousa**  
**June Snow™ Dogwood**

A tree of many colors! Leaves emerge green in spring. By mid-summer, foliage exposed to direct sun takes on a bright yellow hue, creating an overall multi-colored effect. As summer progresses, the yellow tones spread and intensify until autumn arrives, when the leaves turn bright orange-red.

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**Cornus kousa**  
**Champion’s Gold™ Dogwood**

- **Zone:** 5
- **Height:** 20’
- **Spread:** 20’
- **Shape:** Wide vase to rounded
- **Foliage:** Green, turning bright yellow
- **Fall Color:** Orange-red
- **Flower:** Light pink

Large, rose pink flower bracts form flower heads that reach four inches in diameter. Introduced by Don Schmidt Nursery, its handsome blooms last for as long as two months in Oregon.

---

**Cornus kousa**  
**Milky Way Select Dogwood**

- **Zone:** 5
- **Height:** 15’
- **Spread:** 15’
- **Shape:** Rounded to wide vase
- **Foliage:** Green
- **Fall Color:** Bright red
- **Flower:** Large creamy white bracts
- **Fruit:** Red, ¾”

Selected for its heavy and long lasting display of creamy white flowers, each composed of four large bracts. This showy cultivar also features abundant bright orange-red fruit and excellent orange-red to red autumn color.
**Cornus - Dogwood**

### Summer Gold Dogwood

**Cornus kousa 'Summer Fun'**

- **Zone:** 5
- **Height:** 18'
- **Spread:** 15'
- **Shape:** Rounded to wide vase
- **Foliage:** Variegated, white and green
- **Fall Color:** Red orange with pink margins
- **Flower:** White
- **Fruit:** Red, ¼"

White flower bracts of late spring complement rich, boldly contrasting green and cream-white leaves. Leaf margins are brighter white than those of other variegated dogwoods. Vivid fall tones are red orange and pink.

### Starlight® Dogwood

**Cornus × 'Rutan'**

- **Zone:** 6
- **Height:** 20'
- **Spread:** 20'
- **Shape:** Upright spreading
- **Foliage:** Green
- **Flower:** White
- **Fruit:** None

DISEASE RESISTANCE:
Dogwood anthracnose and powdery mildew

Clean, disease resistant foliage and a heavy annual bloom make this tree both reliable and beautiful. Cream-white flowers have broad, overlapping bracts.

### Aurora® Dogwood

**Cornus × 'Rutan'**

- **Zone:** 6
- **Height:** 24'
- **Spread:** 20'
- **Shape:** Upright spreading
- **Foliage:** Green
- **Fall Color:** Red
- **Flower:** White
- **Fruit:** None

DISEASE RESISTANCE:
Dogwood anthracnose and powdery mildew

Healthy dark green foliage complements the large, firm, creamy white flower bracts that smother its branches in late spring. This hybrid offers the upright growth habit and form of its Pacific Dogwood parent, plus the disease resistance of its Chinese Dogwood parent.

### Scarlet Fire® Dogwood

**Cornus kousa × nuttallii 'KN4-43' PP 16293**

- **Zone:** 6
- **Height:** 30'
- **Spread:** 20'
- **Shape:** Upright oval
- **Foliage:** Deep green
- **Fall Color:** Red
- **Flower:** Large, creamy white
- **Fruit:** Red orange, ¼", sparse

DISEASE RESISTANCE:
Dogwood anthracnose and powdery mildew

Dramatic fuchsia-pink blooms float atop dark green foliage in late spring and last for several weeks. Each bloom, formed by pointed bracts that do not overlap, resembles a four-pointed star. Leaves emerge with purple blush. Developed by Dr. Tom Molnar at Rutgers University.

### Celestial® Dogwood

**Cornus kousa 'Summer Gold' PP 22765**

- **Zone:** 5
- **Height:** 15'
- **Spread:** 15'
- **Shape:** Rounded to wide vase
- **Foliage:** Variegated yellow and green
- **Fall Color:** Pink, then red
- **Flower:** White
- **Fruit:** Red, ¾"

White bracted flowers held above bright green and golden yellow variegated foliage are a flashy, eye catching combination in summer. In autumn, golden margins of the two-tone foliage become pink, and then the entire leaf turns bright red.

### Stellar Pink® Dogwood

**Cornus × 'Rutan'**

- **Zone:** 6
- **Height:** 20'
- **Spread:** 20'
- **Shape:** Upright spreading
- **Foliage:** Deep green
- **Fall Color:** Red
- **Flower:** Large, creamy white
- **Fruit:** Red orange, ¾", sparse

DISEASE RESISTANCE:
Dogwood anthracnose and powdery mildew

Large and slightly overlapping flower bracts are tinted a delicate shade of soft pink, a little lighter in color than C. florida rubra. Flowering date of the Rutgers series is intermediate between the C. kousa and C. florida parents.
**Cornus**

**'Eddie's White Wonder' Dogwood**

- **Zone:** 6
- **Height:** 25’
- **Spread:** 20’
- **Shape:** Upright, pyramidal; slightly pendulous branching
- **Foliage:** Dark green
- **Fall Color:** Red to purple-red
- **Flower:** Very large, 6”, creamy white
- **Fruit:** Red orange, ¼”, sparse

**DISEASE RESISTANCE:**
Dogwood anthracnose and powdery mildew

This vigorous hybrid dogwood combines the huge flowers of the Pacific dogwood with the environmental tolerance of the Chinese dogwood. It has the largest bloom of any dogwood we have seen and is very floriferous and nearly sterile.

**Cornus 'Eddie's White Wonder'**

**Eddie's White Wonder Dogwood**

- **Zone:** 6
- **Height:** 25’
- **Spread:** 20’
- **Shape:** Upright, pyramidal; slightly pendulous branching
- **Foliage:** Deep green
- **Fall Color:** Red
- **Flower:** Large white
- **Fruit:** Small red

White flower bracts of this hybrid cultivar are much larger than those of its parent *C. florida*, and it grows taller. It is also easier to grow and more adaptable that its other parent, *C. nuttallii*.

**Venus® Dogwood**

- **Zone:** 5b
- **Height:** 25’
- **Spread:** 20’
- **Shape:** Upright oval
- **Foliage:** Deep green
- **Fall Color:** Red to purple-red
- **Flower:** Very large, 6”, creamy white
- **Fruit:** Red orange, ¾”, sparse

**DISEASE RESISTANCE:**
Dogwood anthracnose and powdery mildew

This vigorous hybrid dogwood combines the huge flowers of the Pacific dogwood with the environmental tolerance of the Chinese dogwood. It has the largest bloom of any dogwood we have seen and is very floriferous and nearly sterile.

**Crataegus**

**Crataegus crus-galli 'Inermis’**

**Thornless Cockspur Hawthorn**

- **Zone:** 4
- **Height:** 25’
- **Spread:** 25’
- **Shape:** Rounded, spreading
- **Foliage:** Deep green, glossy
- **Flower:** Small, white in 2” clusters
- **Fruit:** Dark red, 3⁄8”-1⁄2”, persistent

This small adaptable tree has the excellent foliage of *Crataegus crus-galli* while completely lacking the dangerous thorns.

**Crataegus laevigata ‘Crimson Cloud’**

**Crimson Cloud Hawthorn**

- **Zone:** 4
- **Height:** 25’
- **Spread:** 18’
- **Shape:** Oval, with upright spreading wavy branches
- **Foliage:** Small glossy green
- **Flower:** Bright red with white centers
- **Fruit:** Bright red

**DISEASE RESISTANCE:**
Leaf spot

This tree is distinctive for its wavy branch habit and bright red flowers with white centers.

**Crataegus × lavallei**

**Lavalle Hawthorn**

- **Zone:** 4
- **Height:** 28’
- **Spread:** 20’
- **Shape:** Irregular vase
- **Foliage:** Dark green, leathery
- **Fall Color:** Bronze
- **Flower:** White, in large clusters
- **Fruit:** Orange, ½”

Lavalle increases its landscape interest as the season progresses. Foliage intensifies from bright glossy green in summer to the bronze-green of fall, which complements its persistent orange to orange red fruit. Its form has strong impact on the winter landscape, with smooth dark bark and an irregularly vase shaped growth habit.

**Crataegus laevigata ‘Paul’s Scarlet’**

**Paul’s Scarlet Hawthorn**

- **Zone:** 4
- **Height:** 22’
- **Spread:** 20’
- **Shape:** Dense, upright spreading, oval
- **Foliage:** Small, deeply lobed, green
- **Fall Color:** Bronze to rose
- **Flower:** Double, scarlet to rose
- **Fruit:** Sparse, deep red

The brilliant colored flowers make this tree the showiest of all the Hawthorns in the spring. This selection is susceptible to leaf spot.
**Elaeagnus**

*Elaeagnus angustifolia*

**Russian Olive**

- **Zone:** 2
- **Height:** 20’
- **Spread:** 20’
- **Shape:** Upright oval to rounded
- **Foliage:** Dark glossy green
- **Flower:** Small, double white, in clusters
- **Fruit:** Bright crimson, ½”

Used effectively as an attractive, impenetrable hedge even in difficult climates and inhospitable soils. A good source of silver-gray foliage to lighten a landscape.

**Fagus**

*Fagus sylvatica*

**American Beech**

- **Zone:** 5
- **Height:** 50’
- **Spread:** 40’
- **Shape:** Broadly oval
- **Foliage:** Glossy green
- **Fall Color:** Golden bronze

Slow growing, but ultimately large and magnificent. A mature tree is an imposing sight, with smooth silver-gray bark, lustrous green foliage, and sturdy branch structure.

**Eucommia**

*Eucommia ulmoides*

**Hardy Rubber Tree**

- **Zone:** 5
- **Height:** 45’
- **Spread:** 45’
- **Shape:** Rounded, with ascending branches
- **Foliage:** Lustrous dark green

Glossy foliage is reported pest free. This drought and disease resistant tree tolerates a wide range of soil conditions including alkaline.

**Green Beech**

*Fagus sylvatica*

**Dawyck Purple**

- **Zone:** 5
- **Height:** 40’
- **Spread:** 12’
- **Shape:** Columnar, fastigiate
- **Foliage:** Glossy dark green
- **Fall Color:** Bronze

A purple leaf form of Fastigiate Beech. Tight and narrow in form, with purple leaf color that holds well in the summer.

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**Crataegus** - Hawthorn

**Crataegus × mordenensis ‘Snowbird’ C.O.P.F.**

**Snowbird Hawthorn**

- **Zone:** 3
- **Height:** 22’
- **Spread:** 20’
- **Shape:** Upright, round
- **Foliage:** Deep green, very glossy
- **Fall Color:** Orange to scarlet and reddish purple
- **Flower:** White in clusters, double white, fading to pink, fragrant
- **Fruit:** Seedless

Snowbird was introduced by the Morden Research Station in Canada where it originated as a seedling of Toba. It is harder than Toba and has a glossier, more handsome leaf.

**Crataegus × mordenensis ‘Toba’**

**Toba Hawthorn**

- **Zone:** 3
- **Height:** 20’
- **Spread:** 20’
- **Shape:** Upright, round
- **Foliage:** Deep green, very glossy
- **Fall Color:** Orange to scarlet and reddish purple
- **Flower:** White in clusters, double white, fading to pink, fragrant
- **Fruit:** Seedless

Selected by the Morden Research Station in Canada. A hardy tree with a well behaved branch pattern.

**Crataegus phaenopyrum**

**Washington Hawthorn**

- **Zone:** 4
- **Height:** 25’
- **Spread:** 20’
- **Shape:** Broadly oval to rounded
- **Foliage:** Deep green, very glossy
- **Fall Color:** Orange to scarlet and reddish purple
- **Flower:** White in clusters, double white, fading to pink, fragrant
- **Fruit:** Seedless

The small attractive fruits blend beautifully with the autumn leaves. Many people rate this the best North American Hawthorn. Very useful in both multi-stem and tree form.

**Crataegus viridis ‘Winter King’**

**Winter King Hawthorn**

- **Zone:** 4
- **Height:** 22’
- **Spread:** 20’
- **Shape:** Upright, round
- **Foliage:** Deep green, very glossy
- **Fall Color:** Orange to scarlet and reddish purple
- **Flower:** White in clusters, double white, fading to pink, fragrant
- **Fruit:** Seedless

Winter King is an attractive Hawthorn with silvery bark that contrasts nicely with dark green, glossy leaves. The strong, angular lines of its branching pattern give it a bold appearance in the winter.
**Fagus sylvatica 'Fastigiata' ('Dawyck')**

**Fastigiate Beech**

Zone: 5  
Height: 45'  
Spread: 15'  
Shape: Columnar, fastigiate  
Foliage: Dark green  
Fall Color: Golden Brown

Deep green foliage and the tightness of its fastigiate form make this one of the most striking of columnar trees.

**Fagus sylvatica 'Asplenifolia'**

**Fernleaf Beech**

Zone: 5  
Height: 50'  
Spread: 40'  
Shape: Broadly oval  
Foliage: Cutleaf, green  
Fall Color: Golden brown

A large growing cultivar with crisp, dark green, cutleaf foliage. The branching gives the tree the appearance of closely layerd, fan like sprays.

**Fagus sylvatica 'Purple Fountain'**

**Purple Fountain Beech**

Zone: 5  
Height: 25'  
Spread: 12'  
Shape: Weeping from ascending trunk  
Foliage: Purple to purple-red

Pendulous branches drape from an upright leader as this unusual beech matures into a unique living sculpture. Much faster growing than Purpurea Pendula, its foliage is a slightly lighter shade of purple.

**Fagus sylvatica 'Purpurea Pendula'**

**Purple Weeping Beech**

Zone: 5  
Height: 10'  
Spread: 15'  
Shape: Broadly weeping  
Foliage: Purple

Weeping habit and the absence of a central leader form a broad purple dome. A large specimen provides a fantasy-land playground beneath cascading branches.

**Fagus sylvatica 'Pendula'**

**Weeping Beech**

Zone: 5  
Height: 40'  
Spread: 30'  
Shape: Gracefully weeping from an irregularly ascending central trunk  
Foliage: Green, glossy

Each one is a natural work of art, a living, growing sculpture. Fast growing because it tends to maintain an upright central stem. Green, pendulous branches hang to the ground from great heights.

**Fagus sylvatica 'Purpurea Pendula'**

This columnar purple beech is similar to 'Dawyck Purple', except a little more compact. It features a leaf with an undulating, slightly lobed margin. Excellent for narrow planting sites.

**Fagus sylvatica 'Fastigiata'**

**Red Obelisk Beech**

Zone: 5  
Height: 35'  
Spread: 12'  
Shape: Columnar, compact  
Foliage: Purple

This columnar purple beech is similar to 'Dawyck Purple', except a little more compact. It features a leaf with an undulating, slightly lobed margin. Excellent for narrow planting sites.

**Fagus sylvatica 'Asplenifolia'**

**Fernleaf Beech**

Zone: 5  
Height: 50'  
Spread: 40'  
Shape: Broadly oval  
Foliage: Cutleaf, green  
Fall Color: Golden brown

Deep green foliage and the tightness of its fastigiate form make this one of the most striking of columnar trees.

**Fagus sylvatica 'Riversii'**

**Rivers Purple Beech**

Zone: 5  
Height: 50'  
Spread: 40'  
Shape: Broadly oval  
Foliage: Deep purple to purple-bronze

The most popular purple leafed beech, Rivers is deep purple in the spring and holds a good purple-bronze color throughout the summer. The smooth silver-gray bark of the trunk is beautiful in winter.

**Fagus sylvatica 'Roseomarginata'**

**Tricolor Beech**

Zone: 5  
Height: 30'  
Spread: 20'  
Shape: Oval  
Foliage: Variegated, purple with a rose-pink and cream margin

Beautiful foliage is this tree's star attraction. Margins of its purple-bronze leaves are irregularly colored with splashes of rose, pink and cream.

**Fagus sylvatica 'Dawyck Purple'**

**Purple Weeping Beech**

Zone: 5  
Height: 18'  
Spread: 12'  
Shape: Upright spreading, oval  
Foliage: Dark green  
Fall Color: Orange-red  
Flower: Large, white with orange center

This rare tree features three inch, fragrant, white camellia-like flowers with an orange center. Dark green foliage contrasts with the bright summer flowers on this small tree.

**Franklinia alatamaha**

**Franklin Tree**

Zone: 5  
Height: 18'  
Spread: 12'  
Shape: Upright spreading, oval  
Foliage: Dark green  
Fall Color: Orange-red  
Flower: Large, white with orange center

This rare tree features three inch, fragrant, white camellia-like flowers with an orange center. Dark green foliage contrasts with the bright summer flowers on this small tree.
Fraxinus - Ash

Fraxinus americana 'Junginger'
Autumn Purple® Ash

Zone: 4
Height: 45'
Spread: 40'
Shape: Rounded
Foliage: Green, heavily textured
Fall Color: Reddish-purple
Fruit: Seedless

The standard of comparison for White Ash. Beautiful fall colors of various hues in different years vary from mottled yellow orange to orange red and deep purple.

Raywood Ash

Zone: 6
Height: 45'
Spread: 30'
Shape: Oval with dense crown
Foliage: Narrow green leaflets, fine textured
Fall Color: Reddish-purple

Raywood grows fast as a young tree but matures smaller than other Ash. Slender branches and narrow leaflets give it a delicate, fine textured appearance. Outstanding reddish purple fall color.

Fraxinus pennsylvanica 'Patmore'
Patmore Ash

Zone: 2
Height: 45'
Spread: 35'
Shape: Symmetrical upright branches, oval head
Foliage: Dark green, glossy
Fall Color: Yellow
Fruit: Seedless

Patmore probably is the best Green Ash cultivar introduced to date. It has dark green, glossy foliage and a well behaved form, intermediate in shape between Summit and Marshall. Extremely hardy.

Fraxinus pennsylvanica 'Urbanite'
Urbanite® Ash

Zone: 5
Height: 50'
Spread: 40'
Shape: Broadly pyramidal
Foliage: Lustrous green, thick and leathery
Fall Color: Deep bronze
Fruit: Samaras

A well behaved selection of the "Red Ash" type. Very tolerant of city conditions, its thick bark seems more resistant to sunscald than other Ash cultivars.

Ginkgo

Ginkgo biloba 'Autumn Gold'
Autumn Gold Ginkgo

Zone: 3
Height: 45'
Spread: 35'
Shape: Broadly pyramidal
Foliage: Medium green
Fall Color: Golden yellow
Fruit: Seedless

Striking golden yellow fall color is characteristic of this male clone. Narrow form in youth broadens with age.

Ginkgo biloba 'Magyar'
Magyar Ginkgo

Zone: 4
Height: 50'
Spread: 25'
Shape: Narrow oval
Foliage: Medium green
Fall Color: Bright yellow
Fruit: Seedless

Faster growing than Princeton Sentry® with a slightly broader form, this narrow, upright cultivar has an excellent form for use as an urban street tree.

Ginkgo biloba 'JFS-UGA2'
Golden Colonnade® Ginkgo

Zone: 4
Height: 45'
Spread: 25'
Shape: Narrow oval
Foliage: Medium green
Fall Color: Bright yellow
Fruit: Seedless

Thanks to its strongly upright central leader and narrowly oval growth habit, this Ginkgo discovered by Dr. Michael Dirr is ideal for narrow street use. The original tree has male flowers and is observed to be seedless.

Ginkgo biloba 'The President'
Presidential Gold® Ginkgo

Zone: 4
Height: 50'
Spread: 40'
Shape: Broadly pyramidal to oval
Foliage: Medium green
Fall Color: Bright yellow
Fruit: Seedless

Outstanding in both the nursery row and the landscape, this seedless cultivar may set the new standard among Ginkgos. Selected by Dr. Michael Dirr, it has a strong central leader and full branching when young, then develops a dense upright crown when mature.

www.jfschmidt.com
Thornless and Seedless Honeylocust

All cultivars we offer have been selected as outstanding plants for a variety of characteristics. All are considered essentially thornless and seedless. However, there are reports from around the country of occasional production of fruit and/or thorns by several cultivars. Unusual weather conditions seem to be the key factor in this. When thorns or seeds are produced in one season, the tree generally reverts back to its normal growth habit the following year.

Imperial® Honeylocust

Imperial® is small and rounded, the most compact and formal of the popular Honeylocust cultivars. Wide branch angles resist storm damage and create a horizontal spreading branch pattern.

Skyline® Honeylocust

Skyline® develops a more upright shape than most, similar to environment of the Great Plains. Northern Acclaim® University for its cold hardiness in the rugged

Gleditsia triacanthos ‘Impcole’

Gleditsia triacanthos ‘Skycole’

The most widely used Honeylocust cultivar. Its upright spreading branch angles, well behaved form and environmental tolerance make Skyline® an ideal street tree in many situations.

Street Keeper® Honeylocust

An ideal tree for city streets, this cultivar boasts the tight, narrow form that has long been lacking in urban tolerant honeylocust. The ascending branch structure gives Street Keeper® a canopy that is only half as wide as other cultivars. Foliage is deeper green than other selections.

Sunburst® Honeylocust

Sunburst® is used for its bright golden yellow, fine textured foliage. The new growth is always bright yellow which contrasts attractively with the darker yellow green interior foliage.
Gymnocladus dioicus 'Espresso-JFS'

Kentucky Coffee Tree

Zone: 4  
Height: 50'  
Spread: 35'  
Shape: Oval to vase with upright arching branches  
Foliage: Green, doubly compound  
Fall Color: Yellow

Stark and rugged in the winter, this picturesque native of the midwest becomes tropical in appearance in the summer. Huge fans of doubly compound green leaves emerge to cast filtered shade.

Gymnocladus dioicus ‘Espresso-JFS’

Espresso™ Kentucky Coffee Tree

Zone: 4  
Height: 50'  
Spread: 35'  
Shape: Oval to vase with upright arching branches  
Foliage: Huge doubly compound leaves, bluish-green  
Fall Color: Yellow

The huge doubly compound leaves give this tree a tropical feel, and the arching branches present an elm-like form. This is a seedless selection. Good tolerance of heat, drought, and cold.

Halesia carolina

Silverbell

Halesia carolina 'Rosy Ridge'

Rosy Ridge Silverbell

Zone: 5  
Height: 30'  
Spread: 20'  
Shape: Broadly oval  
Foliage: Dark green  
Fall Color: Yellow  
Flower: Pink, bell shaped

A little faster growing with slightly deeper colored foliage and flowers, this cultivar has a somewhat bolder appearance than Arnold Pink. A native tree selection made by Hawksridge Farms of North Carolina.

Hamamelis

Witch Hazel

Hamamelis × intermedia ‘Arnold Promise’

Arnold Promise Witch Hazel

Zone: 5  
Height: 10'  
Spread: 10'  
Shape: Upright spreading, low branched  
Foliage: Green, textured  
Fall Color: Yellow  
Flower: Bright yellow

Arnold Promise tends to flower early and heavily. Its yellow flowers are among the brightest of the Hamamelis.

Hamamelis × intermedia ‘Diane’

Diane Witch Hazel

Zone: 5  
Height: 10'  
Spread: 10'  
Shape: Upright spreading, low branched  
Foliage: Green, textured  
Fall Color: Bright orange-red  
Flower: Crimson-red

Bright red flowers appear in late winter. Outstanding mix of bright fall colors including yellow-orange, orange-red and bright red.

Wake up to Espresso™!

A seedless selection of a city-tough, North American native tree. Upright, arching branches support frond-like fans of delicate leaves that cast refined shade favorable to plant growth and people. Adaptable to drought, heat and cold, Espresso™ resists insects and disease and adapts to varied growing conditions including alkaline and salty soils.

www.EspressoCoffeeTree.com
Hamamelis × intermedia ‘Jelena’

**Jelena Witch Hazel**

Syn. Copper Beauty Witch Hazel

- **Zone:** 5
- **Height:** 10’
- **Spread:** 10’
- **Shape:** Upright spreading, low branched
- **Foliage:** Glossy green, textured
- **Fall Color:** Bright orange-red
- **Flower:** Coppersy-orange

One of the most beautiful of the witch hazels for all seasons, ‘Jelena’ features large flowers that are especially impressive. Petals are red at the base and grade to orange-yellow at the tips, giving an overall bright coppery-orange display. Fall color is outstanding, bright orange to orange red.

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**Heptacodium**

*Seven-son Flower*

**Heptacodium miconioides**

*Seven-son Flower*

- **Zone:** 5
- **Height:** 15’
- **Spread:** 15’
- **Shape:** Low branched or multi-stem, arching
- **Foliage:** Glossy green
- **Flower:** Fragrant white clusters, red calyces

Calyxes become even more spectacular after the flower petals fall, intensifying to red and holding through autumn. It gives the appearance of blooming twice, first white and then red. Exfoliating bark is attractive and lends interest to the winter landscape.

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**Hydrangea**

*Tree Form*

**Hydrangea paniculata ‘Limelight’ PP 12874**

**Limelight Hydrangea**

- **Zone:** 3
- **Height:** 10’
- **Spread:** 7’
- **Shape:** Upright rounded shrub
- **Foliage:** Green
- **Flower:** Soft lime green to white, then pink in fall

A strong upright grower with soft lime green flowers emerging through the summer. Flowers slowly progress to white, then change to pink to deep magenta in the fall. Heavy and reliable flowering.

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**Hydrangea paniculata ‘DVPPinky’ PP 16166**

**Pinky Winky® Hydrangea**

- **Zone:** 3
- **Height:** 10’
- **Spread:** 8’
- **Shape:** Upright spreading shrub
- **Foliage:** Dark green
- **Flower:** Opens white, aging to pink, very early

The huge, conical flower heads can measure 12”-16”. Flower heads are pink to magenta pink with new white flowers emerging at the tip of the head before taking on the pink color. The weight of the flowers creates a more arching form.

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**Hydrangea paniculata ‘Bulk’ PP 16812**

**Quick Fire® Hydrangea**

- **Zone:** 3
- **Height:** 10’
- **Spread:** 8’
- **Shape:** Upright spreading shrub
- **Foliage:** Dark green
- **Flower:** Opens white, aging to pink, very early

Quick to bloom, this cultivar is the earliest of its species to burst into flower, usually about a month before the others. Flower heads begin white and take on a deep pink color as they mature. It’s the first to flower and first to become pink in the garden.

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**Koelreuteria**

*Goldenrain Tree*

**Koelreuteria paniculata ‘Fastigiata’**

**Columnar Goldenrain Tree**

- **Zone:** 6
- **Height:** 25’
- **Spread:** 20’
- **Shape:** Narrow, fastigiate
- **Foliage:** Pinnately compound, medium green
- **Fall Color:** Yellow
- **Flower:** Bright yellow, in large clusters

Fastigiate growth habit of this unusual selection results in a tightly upright, narrow tree of small to medium size. Bright yellow flowers add color in midsummer.

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**Koelreuteria paniculata ‘Coral Sun’ PP 17409**

**Coral Sun Goldenrain Tree**

- **Zone:** 6
- **Height:** 20’
- **Spread:** 20’
- **Shape:** Rounded
- **Foliage:** Emerges coral pink, maturing to medium green
- **Fall Color:** Golden yellow
- **Flower:** Yellow

Fern-like compound leaflets emerge bright coral and gradually mature to medium green. Their striking contrast against bright coral pink stems delivers a new color combination to a tried and true, street-tough urban tree. Leaves turn golden orange in autumn.

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**Koelreuteria paniculata ‘JFS-Sunleaf’**

**Summerburst® Goldenrain Tree**

- **Zone:** 5
- **Height:** 30’
- **Spread:** 30’
- **Shape:** Rounked
- **Foliage:** Pinnately compound, glossy dark green
- **Fall Color:** Yellow
- **Flower:** Bright yellow, in large clusters

Lantern-like seed capsules are blushed with pink. Unusual for its foliage that holds up nicely in summer heat, its leaves are darker green, smoother and more glossy than typical of the species. Discovered by Sunleaf Nursery, Ohio, it is appreciated for its symmetry, heat resistance, and improved foliage quality.
Laburnum

Goldenchain

Laburnum x watereri ‘Vossii’

Vossii Goldenchain

Zone: 5
Height: 25'
Spread: 20'
Shape: Vase
Foliation: Dark green
Flower: Golden yellow, in long, hanging clusters

By far the most spectacular of the Laburnums for its longer racemes of rich yellow flowers. The tree has an open, upright vase shape.

Liquidambar

Sweetgum

Liquidambar styraciflua ‘Clydesform’

Emerald Sentinel® Sweetgum

Zone: 5
Height: 30'
Spread: 12'
Shape: Narrowly pyramidal to columnar
Foliation: Dark green
Fall Color: Yellow orange to orange

Narrow and compact, with sturdy upright branches, this tree is ideal for busy city streets. Slower growing than most sweetgum, it is valued for not outgrowing its space.

Liquidambar styraciflua ‘Rotundiloba’

Rotundiloba Sweetgum

Zone: 5b
Height: 45'
Spread: 25'
Shape: Pyramidal
Foliation: Bright green, rounded lobes
Fall Color: Orange to purple
Fruit: Fruitless

This is the only Sweetgum known to be entirely fruit-less. The foliage is completely unique among sweetgum cultivars, with smooth, rounded lobes.

Liquidambar styraciflua ‘Slender Silhouette’

Slender Silhouette Sweetgum

Zone: 5
Height: 60'
Spread: 8'
Shape: Tightly columnar
Foliation: Dark green
Fall Color: Orange to burgundy

This fastigate tree grows quickly to form a tall, strikingly narrow column. One of the tightest and narrowest trees available, it is easier to grow than most. Those grown as hedges quickly become effective visual screens, while single specimens mature to become landscape exclamation points.

Liriodendron

Tulip Tree

Liriodendron tulipifera

Tulip Tree

Zone: 5
Height: 60'
Spread: 30'
Shape: Oval
Foliation: Medium green
Fall Color: Bright, clear yellow
Flower: Yellow to greenish yellow with orange center

A large, fast growing tree, native to the eastern U.S. It flowers in late spring to early summer. Flowers are large, yellow-green with an orange center, and their shape resembles that of a tulip.

Liriodendron tulipifera ‘Fastigiatum’

Columnar Tulip Tree

Zone: 5
Height: 50'
Spread: 15'
Shape: Tightly fastigiate
Foliation: Medium green
Fall Color: Bright yellow
Flower: Yellow with orange center

Tall, narrow and tightly fastigate, it has one of the best forms of columnar trees. Fast-growing selection retains its slender form in maturity.

Liriodendron tulipifera ‘JFS-Oz’

Emerald City® Tulip Tree

Zone: 4b
Height: 55'
Spread: 25'
Shape: Upright oval, slightly compact
Foliation: Deep green, glossy
Fall Color: Bright, clear yellow
Flower: Yellow to greenish yellow with orange center

A refined cultivar of our familiar native tulip tree, this uniform growing selection is straighter and more upright, with a dominant central leader and deeper green, slightly glossy foliage.
Maackia

Maackia amurensis

Amur Maackia

Zone: 3
Height: 25’
Spread: 20’
Shape: Upright vase with rounded crown
Foliage: Medium green
Flower: Upright white clusters

A very hardy, small upright tree that grows well in tough environments. This nitrogen-fixer does well in poor soils and flowers in mid-summer when few other trees are in bloom.

Maackia amurensis ‘JFS-Schichtel1’

MaacNificent® Amur Maackia

Zone: 3
Height: 30’
Spread: 22’
Shape: Upright vase
Foliage: Green with silvery bristles
Fall Color: Yellow
Flower: White, in upright racemes

The most vigorous Maackia we have seen, with upright branching that forms a beautiful, symmetrical vase shape. Spike-like racemes of white flowers decorate the tree in early summer. The green foliage shows silvery pubescence in spring.

Maurera

Maclura pomifera ‘White Shield’

White Shield Osage Orange

Zone: 5
Height: 35’
Spread: 35’
Shape: Upright spreading, rounded
Foliage: Glossy dark green
Fall Color: Yellow
Fruit: Fruitless
Thorns: Thornless

Both fruitless and thornless, this tough Midwest native was found in western Oklahoma by plantsman Steve Bieberich. The most thornless of the Osage Orange cultivars, this heat and drought tolerant tree has remarkably dark green, glossy foliage.

Maclura pomifera ‘Wichita’

Wichita Osage Orange

Zone: 5
Height: 35’
Spread: 35’
Shape: Upright spreading, rounded
Foliage: Glossy dark green
Fall Color: Yellow
Fruit: Fruitless

Discovered near Wichita, KS, this adaptable urban tree thrives in soil conditions ranging from acid to alkaline and wet to dry. Its strong wood and branch attachments prevent storm damage. Resistant to diseases, insect pests and deer. Nursery grown trees may have a few thorns when young, but become thornless with age.

Magnolia

Magnolia × loebneri ‘Ballerina’

Ballerina Magnolia

Zone: 4
Height: 20’
Spread: 20’
Shape: Rounded, low branched
Foliage: Green
Fall Color: Yellow-green
Flower: Large, white with pink blush

Large and fragrant flowers are produced a little later in the spring than similar cultivars, thus escaping many spring frosts.

Magnolia

Magnolia × loebneri ‘Ballerina’

Ballerina Magnolia

Zone: 4
Height: 20’
Spread: 20’
Shape: Rounded, low branched
Foliage: Green
Fall Color: Yellow-green
Flower: Large, white with pink blush

Large and fragrant flowers are produced a little later in the spring than similar cultivars, thus escaping many spring frosts.
**Magnolia grandiflora ‘D.D. Blanchard’**

**D.D. Blanchard Magnolia**

Zone: 6b  
Height: 35’  
Spread: 20’  
Shape: Pyramidal  
Foliage: Dark green, glossy  
Fall Color: Evergreen  
Flower: Large, creamy white

Vigorous, straight and easy to grow, this broadleaf evergreen matures with a slightly open pyramidal form. Fragrant creamy white flowers crown the dark green glossy foliage in springtime. Rusty brown undersides of the leaves are soft and fuzzy, adding a delightful contrast of color and texture.

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**Magnolia grandiflora ‘Edith Bogue’**

**Edith Bogue Magnolia**

Zone: 6  
Height: 30’  
Spread: 15’  
Shape: Pyramidal, tight  
Foliage: Dark green, glossy  
Fall Color: Evergreen  
Flower: Large, creamy white

Tightly pyramidal in form, Edith Bogue stands up better than others under snow and ice, and is considered one of the hardiest cultivars.

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**Magnolia × loebneri ‘NCMX1’ P.A.F.**

**Mercury™ Magnolia**

Zone: 5  
Height: 25’  
Spread: 15’  
Shape: Upright pyramidal  
Foliage: Dark green  
Fall Color: Yellow  
Flower: Bright lavender pink, fragrant

Deep pink buds open to very large lavender pink blooms. Flowering up to a month later than other *M. soulangeana* cultivars greatly reduces risk of frost damage to blooms. A strong central leader and upright branching result in a tree with excellent pyramidal form. Developed by Dr. Tom Ranney of North Carolina State University.

---

**Magnolia × loebneri ‘Merrill’ (‘Dr. Merrill’)**

**Merrill Magnolia**

Zone: 4  
Height: 25’  
Spread: 25’  
Shape: Rounded, low branched  
Foliage: Green  
Fall Color: Yellow-green  
Flower: Large, white

A hybrid between *M. kobus* and *M. stellata*, Merrill flowers at an early age and flowers heavily. Hardy and reliable.

---

**Magnolia virginiana ‘Jim Wilson’**

**Moonglow® Magnolia**

Zone: 4b  
Height: 35’  
Spread: 18’  
Shape: Upright oval  
Foliage: Green, evergreen to semi-evergreen  
Flower: Creamy white, fragrant

This vigorous growing cultivar features a more upright form, greater cold hardiness, and evergreen foliage that becomes semi-evergreen in northern climates. Creamy white lemon-scented flowers arrive with the warm weather of late spring and continue into summer.

---

**Magnolia × loebneri ‘Leonard Messel’**

**Leonard Messel Magnolia**

Zone: 4  
Height: 20’  
Spread: 20’  
Shape: Rounded, low branched  
Foliage: Green  
Flower: Deep pink

Flowers are purple-pink in bud. Blooms are large, opening to deep pink on the outside and light pink inside.

---

**Magnolia stellata ‘Royal Star’**

**Royal Star Magnolia**

Zone: 5  
Height: 15’  
Spread: 10’  
Shape: Upright spreading shrub, rounded  
Foliage: Green  
Fall Color: Yellow to bronze  
Flower: White

Flowers are larger than the species with nearly twice as many petals. Often considered the best *M. stellata* cultivar.
**Magnolia × soulangeana ‘Rustica Rubra’**

**Rustica Rubra Magnolia**

- **Zone:** 5
- **Height:** 20’
- **Spread:** 20’
- **Shape:** Upright spreading, rounded
- **Foliage:** Green
- **Fall Color:** Yellow-brown
- **Flower:** Large, rose-red

Rustica Rubra features large rose-red flowers with a whitish interior.

---

**Magnolia × loebneri ‘Ruth’ P.A.F.**

**Spring Welcome® Magnolia**

- **Zone:** 3
- **Height:** 20’
- **Spread:** 20’
- **Shape:** Dense oval to rounded
- **Foliage:** Dark green
- **Fall Color:** Yellow-green to bronze
- **Flower:** Pale pink in bud, opening to white

Pink buds unfurl to large, white, multi-petaled blooms that are followed by clean, dark green, heat tolerant leaves. Tested and introduced by NDSU, this pest free, pH adaptable, winter hardy selection blooms reliably even after early spring frosts and winter lows of -35 °F.

---

**Magnolia liliflora × stellata ‘Susan’**

**Susan Magnolia**

- **Zone:** 4
- **Height:** 10’
- **Spread:** 10’
- **Shape:** Upright spreading
- **Foliage:** Medium green
- **Flower:** Reddish-purple

Flower buds are long and purple, and open to 5” wide reddish-purple flowers. Heavy flowering.

---

**Malus**

**Crabapple**

---

**Malus ‘Adams’**

**Adams Crabapple**

- **Zone:** 4
- **Height:** 20’
- **Spread:** 20’
- **Shape:** Dense, rounded
- **Foliage:** Green, with red tint in spring
- **Flower:** Pink
- **Fruit:** Red, ¼”, persistent

DISEASE RESISTANCE:
- Scab: Good
- Fireblight: Excel.
- Cedar-Apple Rust: Excel.
- Mildew: Good

Deep pink buds open to single pink blooms. This reliable performer has symmetrical form.

---

**Malus ‘Adirondack’**

**Adirondack Crabapple**

- **Zone:** 4
- **Height:** 18’
- **Spread:** 10’
- **Shape:** Densely upright, an inverted cone
- **Foliage:** Medium green
- **Flower:** White
- **Fruit:** Bright red, ½”

DISEASE RESISTANCE:
- Scab: Excel.
- Fireblight: Excel.
- Cedar-Apple Rust: Excel.
- Mildew: Excel.

Adirondack is an important cultivar because of its form and outstanding flower display. It is a compact, dense tree with strongly upright form. It produces one of the heaviest flower displays of the crabs. A National Arboretum introduction.

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**Malus ‘Cardinal’**

**Cardinal Crabapple**

- **Zone:** 4
- **Height:** 16’
- **Spread:** 22’
- **Shape:** Broadly spreading
- **Foliage:** Dark purple-red, glossy
- **Flower:** Bright pinkish-red
- **Fruit:** Deep red, ½”

DISEASE RESISTANCE:
- Scab: Excel.
- Fireblight: Good
- Cedar-Apple Rust: Excel.
- Mildew: Excel.

Foliage holds its rich color through the summer and has the best disease resistance of crabs with deep purple leaf color. Flowers of this Malus × hupehensis hybrid are bright magenta-pink to red.
**Malus**

- **Firebird® Crabapple**
  - **Zone:** 4
  - **Height:** 8’
  - **Spread:** 10’
  - **Shape:** Rounded, spreading
  - **Foliage:** Dark green
  - **Flower:** White, opening from red buds
  - **Fruit:** Bright red, 1/4”, persistent
  - **DISEASE RESISTANCE:**
    - Scab: Excel.
    - Fireblight: Excel.
    - Cedar-Apple Rust: Excel.

  This compact selection of *M. sargentii* features long lasting, high quality fruit. Annual fruit display is more persistent than any other natural dwarf crabapple.

- **Coralburst® Crabapple**
  - **Zone:** 4
  - **Height:** 20’
  - **Spread:** 25’
  - **Shape:** Upright spreading, open
  - **Foliage:** Green
  - **Flower:** White
  - **Fruit:** Red, oval, 1 1/2”, edible

- **Dolgo Crabapple**
  - **Zone:** 3
  - **Height:** 30’
  - **Spread:** 25’
  - **Shape:** Upright spreading, open
  - **Foliage:** Green
  - **Flower:** White
  - **Fruit:** Red, oval, 1 1/2”, edible

  One of the hardiest and earliest of the crabapples to bloom, pink buds of Dolgo open to large, fragrant white flowers. Abundant fruits ripening in mid-summer are edible and excellent for jelly.

- **Donald Wyman Crabapple**
  - **Zone:** 4
  - **Height:** 20’
  - **Spread:** 24’
  - **Shape:** Rounded
  - **Foliage:** Green
  - **Flower:** White
  - **Fruit:** Red, 3/8”, persistent

  Glossy clean foliage gives the tree a fresh appearance all summer. Small bright red fruit is among the most persistent of all crabapples.

- **Harvest Gold® Crabapple**
  - **Zone:** 4
  - **Height:** 22’
  - **Spread:** 18’
  - **Shape:** Upright oval
  - **Foliage:** Dark green
  - **Flower:** White
  - **Fruit:** Yellow, 1/2”, persistent

  One of the best yellow fruited crabs, it features neat, crisp, dark green foliage and an upright branch habit.

- **Indian Magic Crabapple**
  - **Zone:** 4
  - **Height:** 15’
  - **Spread:** 15’
  - **Shape:** Upright spreading
  - **Foliage:** Dark green
  - **Flower:** Deep pink
  - **Fruit:** Orange red, 1/4”, persistent

  Bright red elongated fruit is of unusual shape and makes this tree beautiful in fall.
Donald Wyman Crabapple

Zone: 4
Height: 18’
Spread: 7’
Shape: Narrow, tightly columnar
Foliage: Dark green
Flower: White
Fruit: Bright red, ½”

DISEASE RESISTANCE:
Scab: Excel.
Fireblight: Excel.
Cedar-Apple Rust: Excel.
Mildew: Excel.

Deep pink buds open to white flowers on this densely upright, narrow crabapple. Leaves stay clean and disease free throughout the growing season, forming a uniform column of dark green foliage in the landscape. Bright cherry red fruits contrast well with the dark green leaves and persist into late autumn, when a touch of yellow fall color adds seasonal interest.

Indian Magic Crabapple

Malus ‘JFS KW214MX’

Ivory Spear™ Crabapple

Zone: 4
Height: 18’
Spread: 7’
Shape: Narrow, tightly columnar
Foliage: Dark green
Flower: White
Fruit: Bright red, ½”

DISEASE RESISTANCE:
Scab: Excel.
Fireblight: Excel.
Cedar-Apple Rust: Excel.
Mildew: Excel.

A narrow column of deep pink buds and crisp white flowers give way to dark green leaves that turn yellow in autumn. Cherry-red fruits shine into the winter months.

Malus ‘Louisa’

Louisa Crabapple

Zone: 4
Height: 10’
Spread: 12’
Shape: Weeping
Foliage: Dark green, glossy
Flower: True pink
Fruit: Yellow, ⅔”

A pink flowered weeping crab with excellent form and dark green, glossy foliage.

Malus ‘Jarmin’ PP 14337

Marilee® Crabapple

Zone: 4
Height: 24’
Spread: 10’
Shape: Narrow upright, inverted cone
Foliage: Medium green
Flower: Double, large white
Fruit: Virtually fruitless

DISEASE RESISTANCE:
Scab: Good
Fireblight: Good
Cedar-Apple Rust: Good Mildew: Good

Pink buds open to unusually large, white, double blooms. Unique for its stiffly upright, narrow form and virtually fruitless nature, it is an excellent choice for courtyard settings and streetscapes, and for use near utility lines.

Perfect Purple Crabapple

Malus ‘Perfect Purple’

Zone: 4
Height: 20’
Spread: 20’
Shape: Rounded
Foliage: Deep purple
Fall Color: Purple
Flower: Deep pink to rose red
Fruit: Purple red

DISEASE RESISTANCE:
Scab: Fair
Fireblight: Fair
Cedar-Apple Rust: Good
Mildew: Excel.

Deep pink blooms set the spring stage for dark purple foliage that crowns the perfectly rounded canopy of this attractive tree. Very cold hardy, this crab has performed well in the North and Inter-mountain regions.

Golden Raindrops® Crabapple

www.IvorySpear.com
<table>
<thead>
<tr>
<th>NAME</th>
<th>SIZE</th>
<th>SHAPE</th>
<th>FOLIAGE</th>
<th>FLOWER</th>
<th>FRUIT</th>
<th>DISEASE RESISTANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>H</td>
<td>W</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coralburst®</td>
<td>15'</td>
<td>15'</td>
<td>Compact, dense, rounded</td>
<td>Dark green</td>
<td>Coral pink buds, double rose colored flowers</td>
<td>Bronze, ½&quot;</td>
</tr>
<tr>
<td>Donald Wyman</td>
<td>20'</td>
<td>24'</td>
<td>Rounded</td>
<td>Medium green, glossy and clean</td>
<td>Single, white</td>
<td>Bright red, ½&quot;, abundant, persistent</td>
</tr>
<tr>
<td>Firebird®</td>
<td>8'</td>
<td>10'</td>
<td>Rounded, spreading</td>
<td>Dark green</td>
<td>White, opening from red buds</td>
<td>Bright red, ½&quot; persistent</td>
</tr>
<tr>
<td>Golden Raindrops®</td>
<td>20'</td>
<td>15'</td>
<td>Upright, vase shaped</td>
<td>Green, deeply cut</td>
<td>Delicate and starlike, white, profuse</td>
<td>Golden yellow and tiny, ½&quot;</td>
</tr>
<tr>
<td>Harvest Gold®</td>
<td>22'</td>
<td>18'</td>
<td>Upright oval</td>
<td>Dark green</td>
<td>White</td>
<td>Yellow, ½&quot;, persistent</td>
</tr>
<tr>
<td>Indian Magic</td>
<td>15'</td>
<td>15'</td>
<td>Upright, spreading</td>
<td>Dark green</td>
<td>Deep pink, 1½&quot;, single</td>
<td>Orange red, ½&quot;, persistent</td>
</tr>
<tr>
<td>Ivory Spear™</td>
<td>18'</td>
<td>7'</td>
<td>Narrow, tightly columnar</td>
<td>Dark green</td>
<td>White</td>
<td>Bright red, ½&quot;</td>
</tr>
<tr>
<td>Lollipop®</td>
<td>10'</td>
<td>10'</td>
<td>Round, compact</td>
<td>Green</td>
<td>White</td>
<td>Yellow, ½&quot;</td>
</tr>
<tr>
<td>Louisa</td>
<td>10'</td>
<td>12'</td>
<td>Weeping</td>
<td>Dark green, glossy</td>
<td>True pink</td>
<td>Yellow, ½&quot;</td>
</tr>
<tr>
<td>Marilee®</td>
<td>24'</td>
<td>10'</td>
<td>Narrow upright, inverted cone</td>
<td>Medium green</td>
<td>Double, large white</td>
<td>Virtually fruitless</td>
</tr>
<tr>
<td>Perfect Purple</td>
<td>20'</td>
<td>20'</td>
<td>Rounded</td>
<td>Deep purple</td>
<td>Deep pink to rose red</td>
<td>Purple red</td>
</tr>
<tr>
<td>Prairie Rose</td>
<td>20'</td>
<td>18'</td>
<td>Rounded</td>
<td>Medium green</td>
<td>Double, deep pink, fragrant</td>
<td>Usually fruitless</td>
</tr>
<tr>
<td>Prairifire</td>
<td>20'</td>
<td>20'</td>
<td>Upright, spreading, becoming rounded</td>
<td>Red-maroon, aging reddish green</td>
<td>Crimson buds, bright pinkish red, single flowers</td>
<td>Dark red, ½&quot;-½&quot;, persistent</td>
</tr>
<tr>
<td>Profusion</td>
<td>20'</td>
<td>20'</td>
<td>Upright, spreading</td>
<td>Purplish when young, fading to bronze</td>
<td>Deep pink, single</td>
<td>Maroon, ½&quot;, persistent</td>
</tr>
<tr>
<td>Purple Prince</td>
<td>20'</td>
<td>20'</td>
<td>Rounded</td>
<td>Purple, becoming bronze green</td>
<td>Rose red</td>
<td>Maroon, ¾&quot;-½&quot;</td>
</tr>
<tr>
<td>Radiant</td>
<td>25'</td>
<td>20'</td>
<td>Broad, rounded crown</td>
<td>Red-purple when young, maturing to green.</td>
<td>Deep red buds, single deep pink flowers</td>
<td>Bright red, ½&quot;</td>
</tr>
<tr>
<td>Red Barron</td>
<td>18'</td>
<td>8'</td>
<td>Narrow, columnar</td>
<td>Reddish-purple, maturing to bronze-green</td>
<td>Dark red, single</td>
<td>Dark red, ½&quot;</td>
</tr>
<tr>
<td>Red Jewel™</td>
<td>15'</td>
<td>12'</td>
<td>Upright and pyramidal</td>
<td>Green</td>
<td>Pure white, single</td>
<td>Brilliant red, ½&quot;, persistent</td>
</tr>
<tr>
<td>Rejoice™</td>
<td>20'</td>
<td>10'</td>
<td>Narrow, upright oval</td>
<td>Bronze green</td>
<td>Pale rose-pink</td>
<td>Deep red, ½&quot;</td>
</tr>
<tr>
<td>Robinson</td>
<td>25'</td>
<td>25'</td>
<td>Upright, spreading with age</td>
<td>Bronze-green, good fall color</td>
<td>Buds crimson, single flowers deep pink</td>
<td>Dark glossy red, ½&quot;</td>
</tr>
<tr>
<td>Royal Beauty</td>
<td>10'</td>
<td>8'</td>
<td>Weeping</td>
<td>Purple</td>
<td>Dark pink</td>
<td>Dark red, ½&quot;, persistent</td>
</tr>
<tr>
<td>Royal Raindrops®</td>
<td>20'</td>
<td>15'</td>
<td>Upright, spreading</td>
<td>Purple, cutleaf</td>
<td>Bright pinkish-red</td>
<td>Red, ½&quot;, persistent</td>
</tr>
<tr>
<td>Royalty</td>
<td>15'</td>
<td>15'</td>
<td>Upright, rounded</td>
<td>Dark purple, much like a purple leaved plum</td>
<td>Purple to crimson, single</td>
<td>Dark red, ½&quot;-¾&quot;</td>
</tr>
<tr>
<td>Sargent Tina</td>
<td>5'</td>
<td>6'</td>
<td>Small rounded dwarf tree</td>
<td>Medium green, small leaves</td>
<td>Bright red buds opening to single white flowers</td>
<td>Bright red, ½&quot;</td>
</tr>
</tbody>
</table>
### Crabapple Information Chart

<table>
<thead>
<tr>
<th>NAME</th>
<th>SIZE</th>
<th>SHAPE</th>
<th>FOLIAGE</th>
<th>FLOWER</th>
<th>FRUIT</th>
<th>DISEASE RESISTANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>H</td>
<td>W</td>
<td></td>
<td></td>
<td></td>
<td>SCAB</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
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<td>FIRE-BLIGHT</td>
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<td></td>
<td>CEDAR-APPLE RUST</td>
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<td></td>
<td></td>
<td></td>
<td>MILDEW</td>
</tr>
<tr>
<td>Show Time™</td>
<td>22'</td>
<td>20'</td>
<td>Broadly oval to rounded</td>
<td>Purple bronze to bronze green</td>
<td>Bright pinkish red</td>
<td>Red, 1/2”</td>
</tr>
<tr>
<td>Snowdrift</td>
<td>20'</td>
<td>20'</td>
<td>Upright spreading,</td>
<td>Bright green, glossy</td>
<td>Buds pink, flowers single, white.</td>
<td>Orange, small, less than 1/4”, persistent</td>
</tr>
<tr>
<td>Sparkling Sprite™</td>
<td>12'</td>
<td>12'</td>
<td>Compact, dense, round</td>
<td>Bright green</td>
<td>White, opening from pink buds</td>
<td>Yellow to golden orange, 1/4”</td>
</tr>
<tr>
<td>Spring Snow</td>
<td>25'</td>
<td>22'</td>
<td>Dense, oval</td>
<td>Medium green</td>
<td>Pure white, fragrant, single</td>
<td>Nearly sterile. Excellent for patios &amp; courtyards.</td>
</tr>
<tr>
<td>Zumi Calocarpa</td>
<td>20'</td>
<td>24'</td>
<td>Rounded, gracefully</td>
<td>Large green leaves, dense canopy</td>
<td>Buds red, flowers white, single, fragrant, 1/4”</td>
<td>Bright red, glossy, small, 1/4”, persistent</td>
</tr>
</tbody>
</table>

#### Rootstocks for Crabapples

Our ornamental crabapples are offered on three distinct apple understocks: domestic, hardy seedling and RightRoot™ crabapple rootstock.

**Domestic**

This "old standard" rootstock still gives the best growth rate and produces a very uniform, deep root system. Roots go deep to find water in dry areas, and provide extremely good anchorage. Its main disadvantage is heavy suckering. It is also slightly less cold hardy.

**Hardy Crabapple Seedling**

Dolgo crabapple seedlings are excellent rootstocks for the coldest areas. They produce well-branched root systems, and have a growth rate that is close to that of Domestic. This is the rootstock to have in areas where temperatures drop to -30 °F. with no snow cover. In years of Dolgo seed shortage, we may substitute different but equally hardy crab seedlings, such as Malus antonovka.

Ornamental crabapples are truly trouble free garden trees when grown on RightRoot™ crabapple rootstock. Proven to be the best all-around performer in our multi-year trials, this time-tested clonal understock virtually eliminates suckering. In addition to having the lowest number of basal suckers in our tests, trees grown on RightRoot™ understocks have better anchorage and vigorous growth rate. Additional reasons to choose this improved understock include:

- Extremely cold hardy
- Growth rate is close to domestic
- Produces a faster growing tree than EMLA 111
- Resists collar rot and crown gall
- Does not develop burr knot
- Symmetrical root structure is a good balance of fibrous and structural roots
- Adapts well to various soils, including wet or dry sites
Malus 'Parrsi'

**Pink Princess™ Crabapple**

Zone: 5  
Height: 8'  
Spread: 12'  
Shape: Low, spreading  
Foliage: Purple, becoming bronze green  
Flower: Rose pink  
Fruit: Deep red, ½”

**DISEASE RESISTANCE:**  
Scab: Excel.  
Fireblight: Excel.  
Cedar-Apple Rust: Excel.  
Mildew: Excel.

A pink flowered, red leaf form of Sargent Crabapple. Pink Princess™ is a naturally dwarf tree with all the desirable features of Sargent, but in a new color.

Malus 'Profusion'

**Profusion Crabapple**

Zone: 4  
Height: 20'  
Spread: 20'  
Shape: Upright, spreading  
Foliage: Purple, becoming reddish green  
Flower: Bright pinkish red  
Fruit: Maroon, ½” - ¾”

**DISEASE RESISTANCE:**  
Scab: Fair  
Fireblight: Good  
Cedar-Apple Rust: Excel.  
Mildew: Good.

The name of this popular and time-tested variety is inspired by the heavy crop of deep pinkish red flowers. These are followed by a profusion of persistent maroon fruits.

Malus 'Prairifire'

**Prairifire Crabapple**

Zone: 4  
Height: 20'  
Spread: 20'  
Shape: Upright, spreading  
Foliage: Purple, becoming reddish green  
Flower: Bright pinkish red  
Fruit: Dark red, ½”-¾”

**DISEASE RESISTANCE:**  
Scab: Excel.  
Fireblight: Good  
Cedar-Apple Rust: Excel.  
Mildew: Good.

One of the best red leafed crabs, Prairifire has impressive landscape impact. Attributes include long lasting bright red flowers, excellent red fruit, and attractive reddish bark.

Malus 'Purple Prince'

**Purple Prince Crabapple**

Zone: 4  
Height: 20'  
Spread: 20'  
Shape: Rounded  
Foliage: Purple, becoming reddish green  
Flower: Rose red  
Fruit: Maroon, ½” - ¾”

**DISEASE RESISTANCE:**  
Scab: Excel.  
Fireblight: Good  
Cedar-Apple Rust: Excel.  
Mildew: Good.

The purple bronze foliage and bright flowers of this outstanding rosy bloom crab rival those of Liset. Purple Prince is also faster growing and does not suffer from stem splitting. Probably the best purple foliaged crab for growers, it is also a low maintenance tree in the landscape.

Malus 'Radiant'

**Radiant Crabapple**

Zone: 3  
Height: 25'  
Spread: 20'  
Shape: Broad, round crown  
Foliage: New leaves red-purple, mature to bronze-green  
Flower: Deep red buds, single pink blooms  
Fruit: Bright red, ½”

**DISEASE RESISTANCE:**  
Scab: Poor  
Fireblight: Excel.  
Cedar-Apple Rust: Good  
Mildew: Fair.

A hardy University of Minnesota introduction, this tree resists fireblight and performs well in the Rocky Mountain and inter-mountain states.
**Purple Prince Crabapple**

*Malus 'JFS KW213MX'*

**Raspberry Spear™ Crabapple**

Zone: 4  
Height: 20'  
Spread: 8'  
Shape: Narrow upright column  
Foliage: Purple  
Flower: Magenta pink  
Fruit: Maroon to deep red, ¼", persistent  

**DISEASE RESISTANCE:**  
Scab: Excel.  
Fireblight: Excel.  
Cedar-Apple Rust: Excel.  
Mildew: Excel.  

Deep pink buds open to bright magenta flowers on this tightly columnar crabapple. Clean and disease-free summer foliage holds its dark purple color; bronzing on the older leaves in late summer and early fall, when orange tints appear. Purple-red fruits ripen to deep bright red and persist into late autumn or early winter.

**Red Barron Crabapple**

*Malus 'Jewelcole'*

**Red Jewel™ Crabapple**

Zone: 4  
Height: 15'  
Spread: 12'  
Shape: Upright, pyramidal  
Foliage: Green  
Flower: White  
Fruit: Red, ½", very persistent  

**DISEASE RESISTANCE:**  
Scab: Good  
Fireblight: Fair  
Cedar-Apple Rust: Excel.  
Mildew: Good  

Bright red fruits are among the most profuse and persistent of any crab, holding fast until spring in mild winter areas, when they are replaced by an abundance of white blooms.

**Rejoice™ Crabapple**

*Malus 'Rejzam'*

**Zone:** 4  
**Height:** 20'  
**Spread:** 18'  
**Shape:** Rounded  
**Foliage:** Bronze green  
**Flower:** Pale rose-pink  
**Fruit:** Deep red, ¼"  

**DISEASE RESISTANCE:**  
Scab: Good  
Fireblight: Good  
Cedar-Apple Rust: Good  
Mildew: Excel.  

Clouds of rosy-pink flowers are followed by red-tinted foliage that matures to bronze green and becomes deep green in summer. Upright branches and symmetrical form make this easy-care crab one of the most uniform looking trees in nursery rows and streetscapes.

**Robinson Crabapple**

*Malus 'Robinson'*

**Zone:** 4  
**Height:** 25'  
**Spread:** 25'  
**Shape:** Upright, spreading, rounded  
**Foliage:** Bronze green  
**Flower:** Deep pink  
**Fruit:** Red, ¼"  

**DISEASE RESISTANCE:**  
Scab: Good  
Fireblight: Excel.  
Cedar-Apple Rust: Excel.  
Mildew: Excel.  

The fastest growing crabapple—it becomes established and makes an impact in the landscape quickly, yet matures at normal crabapple size.

**Profusion Crabapple**

*Malus 'Magnum'*

**Rejoice™ Crabapple**

*Malus 'Rejzam'*

**Zone:** 4  
**Height:** 20'  
**Spread:** 18'  
**Shape:** Rounded  
**Foliage:** Bronze green  
**Flower:** Pale rose-pink  
**Fruit:** Deep red, ¼"  

**DISEASE RESISTANCE:**  
Scab: Good  
Fireblight: Good  
Cedar-Apple Rust: Good  
Mildew: Excel.  

Clouds of rosy-pink flowers are followed by red-tinted foliage that matures to bronze green and becomes deep green in summer. Upright branches and symmetrical form make this easy-care crab one of the most uniform looking trees in nursery rows and streetscapes.
Bright pinkish red flowers combine with deep purple cutleaf foliage, tiny persistent red fruits, handsome bark and winter silhouette to present a unique, all-season crabapple.

www.RoyalRaindrops.com
Show Time™ Crabapple

Zone: 4  
Height: 22'  
Shape: Broadly oval to rounded  
Foliage: Purple bronze to bronze green  
Flower: Bright pinkish red  
Fruit: Red, ½”

DISEASE RESISTANCE:  
Scab: Fair  
Fireblight: Good  
Cedar-Apple Rust: Good  
Mildew: Excel.

Heavy blooming, with large bright fuchsia-pink flowers that are striking in springtime. Dark green foliage has a red overlay. A vigorous grower with upright oval form, it features bright red fruits in autumn.

Snowdrift Crabapple

Zone: 4  
Height: 20'  
Spread: 20'  
Shape: Upright, spreading, rounded, dense  
Foliage: Green, glossy  
Flower: White  
Fruit: Orange, ¾”, persistent

DISEASE RESISTANCE:  
Scab: Good  
Fireblight: Excellent  
Cedar-Apple Rust: Good  
Mildew: Excellent.

One of the most popular crabs. The crown is very uniform and symmetrical, making it one of the more formal looking crabs.

Spring Snow Crabapple

Zone: 4  
Height: 25'  
Spread: 22'  
Shape: Dense, oval  
Foliage: Medium green  
Flower: White  
Fruit: None

DISEASE RESISTANCE:  
Scab: Poor  
Fireblight: Fair  
Cedar-Apple Rust: Good  
Mildew: Excellent.

Featuring pure white flowers but no fruit, this is the crabapple to use in locations such as patios and courtyards where fruit would be objectionable. It flowers well on an annual basis.

Sugar Tyme® Crabapple

Zone: 4  
Height: 18'  
Spread: 15'  
Shape: Upright, spreading, oval  
Foliage: Green  
Flower: White  
Fruit: Red, ½”, persistent

DISEASE RESISTANCE:  
Scab: Good  
Fireblight: Good  
Cedar-Apple Rust: Excellent  
Mildew: Excellent.

Fragrant white flowers smother Sugar Tyme® in spring. Persistent red fruits provide a fine fall and winter display.

Zumi Calocarpa Crabapple

Zone: 5  
Height: 20’  
Spread: 24’  
Shape: Rounded, gracefully spreading  
Foliage: Green  
Flower: Red buds, white flowers  
Fruit: Red, ½”, persistent

DISEASE RESISTANCE:  
Scab: Excellent  
Fireblight: Excellent  
Cedar-Apple Rust: Excellent  
Mildew: Good.

Very popular, widely used and time tested, this is a standard for comparison for white flowered crabs. Don't confuse M. zumi ‘Calocarpa’ with straight M. zumi.

Franz Schubert and his 11th symphony. The Crown is very uniform and symmetrical, making it one of the more formal looking crabs.
**Metasequoia**

**Dawn Redwood**

*Metasequoia glyptostroboides*

**Zone:** 5  
**Height:** 70’  
**Spread:** 25’  
**Shape:** Narrow, conical  
**Foliage:** Medium green, deciduous conifer  
**Fall Color:** Rusty orange

Light green needles of this fast-growing conifer present a very bright summer appearance. Deciduous character allows winter sun to penetrate and warm buildings that are shaded in summer.

**Gold Rush Dawn Redwood** *(syn. ‘Ogon’)*

**Zone:** 5  
**Height:** 50’  
**Spread:** 20’  
**Shape:** Narrow, conical  
**Foliage:** Bright yellow, deciduous conifer  
**Fall Color:** Rusty orange

The bright yellow summer needles of this large deciduous conifer call for attention in any landscape. Pyramidal and intensely colored, and tolerant of both heat and cold, it is one of the most widely adaptable trees with yellow foliage.

**Jade Prince® Dawn Redwood**

**Zone:** 5  
**Height:** 70’  
**Spread:** 25’  
**Shape:** Upright, pyramidal  
**Foliage:** Bright green, deciduous needles  
**Fall Color:** Rusty orange

Lush, feathery spring foliage matures to rich, fresh green in summer. Dense, upright branching and a strong central leader contribute to superior form over seedling grown plants and recommend it for urban and landscape use.

**Chaparral Weeping Mulberry**

*Morus alba* ‘Chaparral’

**Zone:** 4  
**Height:** 12’  
**Spread:** 16’  
**Shape:** Weeping  
**Foliage:** Bright green, glossy  
**Fall Color:** Yellow  
**Fruit:** Seedless

Gracefully weeping branches are draped in attractive glossy green foliage that turns yellow in autumn. Appreciated for its fruitless nature, it is widely adaptable to harsh growing conditions including extremes of heat and cold.

**Black Tupelo**

*Nyssa sylvatica*

**Zone:** 5  
**Height:** 35’  
**Spread:** 20’  
**Shape:** Pyramidal when young, spreading and irregular with age  
**Foliage:** Dark green, glossy  
**Fall Color:** Hot coppery red

Rich green glossy foliage ignites with brilliant fall tones, ranging from scarlet to maroon, yellow and orange. Fissured grey bark provides winter interest. Adaptable to urban conditions including compacted and poorly drained soils and occasional drought.

**Afterburner® Tupelo**

*Nyssa sylvatica* ‘David Odom’

**Zone:** 5  
**Height:** 35’  
**Spread:** 20’  
**Shape:** Upright pyramidal to oval  
**Foliage:** Bright green, glossy  
**Fall Color:** Bright red  
**Fruit:** Blue-black, ⅛”

Symmetrical, uniform and upright branch structure and straight central leader make this cultivar easier to grow and better suited than seedlings of the species for use as a street tree. High gloss foliage shines through the summer and then turns bright red in fall, burning brightly after most tupelo have defoliated.
Nyssa sylvatica ‘JFS-red’ PP 26795

**Firestarter® Tupelo**

Zone: 5  
Height: 35'  
Spread: 18'  
Shape: Narrow oval to upright oval  
Foliage: Dark green  
Fall Color: Bright red  
Fruit: Seedless

Symmetrical, upsweeping branches and a strong central leader contribute to the remarkably neat and uniform appearance of this relatively narrow tupelo. Dark green foliage turns intensely bright red, coloring earlier in autumn than most cultivars.

Nyssa sylvatica ‘NSUHH’ PP 22951

**Green Gable™ Tupelo**

Zone: 5  
Height: 40'  
Spread: 25'  
Shape: Pyramidal to broadly pyramidal  
Foliage: Dark green, glossy  
Fall Color: Orange red to red  
Fruit: Seedless

**DISEASE RESISTANCE**: Leaf spot

Upsweeping branches and a dominant central leader create a gable shaped canopy that inspires its name. Dark green and glossy summer foliage shows leaf spot resistance, and develops good red fall color.

Nyssa sylvatica ‘JFS-PN Legacy1’

**Gum Drop® Tupelo**

Zone: 5  
Height: 30'  
Spread: 20'  
Shape: Upright oval  
Foliage: Dark green, glossy  
Fall Color: Bright red  
Fruit: Seedless

Glossy dark green foliage, bright red autumn leaves and upright, oval form distinguish this standout tupelo selected from the fields of Princeton Nursery. Improved density and slightly compact form are reasons to choose it over highly variable trees grown from seed.

Nyssa sylvatica ‘Haymanred’

**Red Rage® Tupelo**

Zone: 5  
Height: 35'  
Spread: 20'  
Shape: Broadly pyramidal  
Foliage: Dark green, glossy  
Fall Color: Bright red  
Fruit: Seedless

**DISEASE RESISTANCE**: Leaf spot

Discovered by plantsman Mike Hayman in southern Indiana, Red Rage® features deep green, high gloss summer foliage that resists leaf spot, then turns bright red with the onset of fall weather.

Nyssa sylvatica ‘Wildfire’

**Wildfire Tupelo**

Zone: 6  
Height: 40'  
Spread: 25'  
Shape: Broadly pyramidal to oval  
Foliage: Dark green, red new growth  
Fall Color: Yellow-orange to purplish  
Fruit: Seedless

This tupelo offers an extra season of brightly colored foliage. Spring brings a surprising flush of deep red new growth, which continues as long as new leaves emerge. Summer foliage is green, changing to autumn tints of orange-yellow to purplish red.

Ostrya

**Ostrya virginiana**

American Hophornbeam

Zone: 4  
Height: 40'  
Spread: 25'  
Shape: Upright oval  
Foliage: Dark green  
Fall Color: Yellow

This handsome small tree performs well in urban settings. Pest resistant and tolerant of drought and alkaline soils, its hard wood resists damage from ice and snow. Hop-like fruits and finely serrated hornbeam-like leaves give this adaptable tree its name.

Ostrya virginiana ‘JFS-KW5’

**Autumn Treasure® Hophornbeam**

Zone: 4  
Height: 40'  
Spread: 20'  
Shape: Broadly pyramidal to oval  
Foliage: Dark green, glossy  
Fall Color: Orange red to red  
Fruit: Seedless

At last, a hophornbeam suited for city living. Predictably upright narrow form facilitates uniform street tree plantings. Unlike many trees of seedling origin that hold brown leaves throughout the winter, fall leaf drop is clean and complete.

Ostrya virginiana ‘JFS-red’

**Autumn Treasure® Hophornbeam**

Zone: 6  
Height: 40'  
Spread: 25'  
Shape: Broadly pyramidal to oval  
Foliage: Dark green, red new growth  
Fall Color: Yellow-orange to purplish  
Fruit: Seedless

Discovered by plantsman Mike Hayman in southern Indiana, Red Rage® features deep green, high gloss summer foliage that resists leaf spot, then turns bright red with the onset of fall weather.

Nyssa sylvatica ‘Haymanred’

**Red Rage® Tupelo**

Zone: 5  
Height: 35'  
Spread: 20'  
Shape: Broadly pyramidal  
Foliage: Dark green, glossy  
Fall Color: Bright red  
Fruit: Seedless

**DISEASE RESISTANCE**: Leaf spot

Discovered by plantsman Mike Hayman in southern Indiana, Red Rage® features deep green, high gloss summer foliage that resists leaf spot, then turns bright red with the onset of fall weather.
Parrotia persica 'Inge’s Ruby Vase'
Ruby Vase® Parrotia

Zone: 5
Height: 28’
Spread: 16’
Shape: Upright narrow vase
Foliage: Dark green, red new growth
Fall Color: Orange-red
Flower: Showy red stamens

Upright and narrower than the species, this cultivar features dark green summer foliage that begins the season with red tipped new growth and finishes with bright fall color. The upright form makes it suitable for street use.

Parrotia persica 'Vanessa'
Vanessa Parrotia

Zone: 5
Height: 28’
Spread: 14’
Shape: Upright, tight vase
Foliage: Green, textured
Fall Color: Orange-red
Flower: Showy red stamens

Tighter, with greater density, and more upright than the species, Vanessa is a better choice for smaller landscapes or for use near streets. Fall color varies from orange to red and is always impressive.

Phellodendron amurense ‘Longenecker’
Eye Stopper™ Cork Tree

Zone: 4
Height: 40’
Spread: 35’
Shape: Upright, then spreading, rounded crown
Foliage: Medium green
Fall Color: Bright yellow
Fruit: Generally seedless

This cultivar has the clearest, bright yellow foliage of the cork trees introduced to date. It was selected from trees at the University of Wisconsin Longenecker Gardens.

Phellodendron amurense ‘His Majesty’
His Majesty™ Cork Tree

Zone: 3
Height: 40’
Spread: 35’
Shape: Broad vase
Foliage: Medium green
Fall Color: Yellow
Fruit: Generally seedless

Fast growing, upright spreading and hardy, this seedless selection features a better branching habit than the species. Introduced by Harold Pellett of the University of Minnesota, this cultivar appears to be a hybrid of *P. sachalinense* and *P. amurense*.
### Picea

**Picea pungens ‘Glaucoglobosa’**

**Globe Blue Spruce**

| Zone: 2 | Height: 3’ | Spread: 4’ | Shape: Rounded, compact | Foliage: Silvery blue needles |

This dwarf form has good blue needle color and forms a compact, flat topped ball.

### Pinus

**Pinus nigra**

**Austrian Pine**

| Zone: 4 | Height: 55’ | Spread: 30’ | Shape: Broadly pyramidal to rounded | Foliage: Dark green needles, in pairs |

Cold hardy, tough, and adaptable, it becomes a tree of strong character.

### Exclamation!® Planetree

**Platanus × acerifolia ‘Bloodgood’**

**Bloodgood London Planetree**

| Zone: 5 | Height: 50’ | Spread: 40’ | Shape: Broadly pyramidal | Foliage: Large, maple like, medium to dark green | Fall Color: Yellow |

Reputed to be more resistant to anthracnose than the species. The naturally shedding bark creates a dappled brown and cream pattern that accentuates sunlight filtering through the foliage. This is a popular tree for malls, parks and shopping centers.

**Platanus × acerifolia ‘Morton Circle’**

**Exclamation!® Planetree**

| Zone: 5 | Height: 55’ | Spread: 35’ | Shape: Upright pyramidal | Foliage: Medium green | Fall Color: Yellow |

A strong central leader and upright pyramidal shape make this tree easy to grow in the nursery. A carefree performer on city streets, it is urban tolerant, anthracnose resistant, and moderately resistant to powdery mildew.

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**Platanus**

**Platanus × acerifolia ‘Columbia’**

**Columbia Planetree**

| Zone: 6 | Height: 50’ | Spread: 40’ | Shape: Broadly pyramidal to rounded | Foliage: Medium green | Fall Color: Yellow-brown |

Selected and introduced by the U.S. National Arboretum for high resistance to anthracnose, it seems to be resistant on the East Coast, but not on the West Coast. It has attractive, deeply cut leaves similar to *Platanus orientalis*.
Populus tremuloides 'JFS-Column'

**Mountain Sentinel® Aspen**

Zone: 3  
Height: 35'  
Spread: 8'  
Shape: Narrow, fastigiate  
Foliage: Green, trembles in breeze  
Fruit: Seedless  
Fall Color: Yellow

Our native aspen is now available in fastigiate form! Extremely narrow and upright, with ascending branches, it has the same silvery-gray bark, fluttering leaves, and golden yellow fall color, but in a much narrower form.

Populus tremuloides 'NE-Arb'

**Prairie Gold® Aspen**

Zone: 4  
Height: 40'  
Spread: 15'  
Shape: Narrow oval to pyramidal  
Foliage: Light green, trembling in breeze  
Fall Color: Golden yellow

Adapted to the heat, drought and humidity of the Midwestern prairie, this Nebraska native brings lowland adaptability and disease tolerance to a high elevation favorite. Introduced by Schmidt in cooperation with the Nebraska Statewide Arboretum, Prairie Gold® greatly expands the planting range of this mountain species.

Populus tremula 'Erecta'

**Swedish Columnar Aspen**

Zone: 2  
Height: 40'  
Spread: 10'  
Shape: Very narrow, fastigiate  
Foliage: Green, trembles in breeze

Rustling leaves make the same pleasant sound as Quaking Aspen. This upright and very narrow tree is well adapted to cold climates. Seedless, it is a good substitute for Lombardy Poplar.

Populus deltoides 'Siouxland'

**Siouxland Poplar**

Zone: 2  
Height: 75'  
Spread: 35'  
Shape: Oval  
Foliage: Medium green  
Fall Color: Yellow  
Seed: None (cottonless)

A very fast growing “Cottonless Cottonwood” with resistance to leaf rust. *Populus × canescens* ‘Tower’ C.O.P.F.

**Tower Poplar**

Zone: 2b  
Height: 50'  
Spread: 14'  
Shape: Narrowly columnar  
Foliage: Medium green  
Fall Color: Yellow

Fast growing, drought tolerant, and very cold hardy, this tightly columnar hybrid (*P. alba* x *P. tremula* ‘Erecta’) has improved disease and insect resistance. Excellent for windbreaks and screens, it is urban tolerant, and a good replacement for Lombardy poplar.
**Prunus padus ‘Drietree’**

**Merlot® Bird Cherry**

**Zone:** 3  
**Height:** 30’  
**Spread:** 18’  
**Shape:** Upright oval  
**Foliage:** Leaves emerge green, turn purple in summer  
**Fall Color:** Red to reddish purple  
**Flower:** White, in 4” long drooping clusters

Strongly upright with a straight central leader, Merlot® maintains a symmetrical, upright oval shape. Its form makes it easier to manage and its foliage is a deeper purple than similar cultivars.

**Prunus virginiana ‘Canada Red’**

**Canada Red Improved Chokecherry**

**Zone:** 2  
**Height:** 25’  
**Spread:** 20’  
**Shape:** Upright spreading, rounded  
**Foliage:** Leaves emerge green, turn purple in summer  
**Fall Color:** Red to reddish purple  
**Flower:** Small white, in long clusters

This very cold hardy tree is remarkable for its leaves that emerge green and mature to dark purple as the weather warms. Foliage color intensifies to reddish purple in autumn.

**Prunus subhirtella ‘Autumnalis Rosea’**

**Autumn Flowering Cherry**

**Zone:** 5  
**Height:** 25’  
**Spread:** 22’  
**Shape:** Upright spreading with slender branches  
**Foliage:** Medium green  
**Fall Color:** Yellow to bronze  
**Flower:** Semi-double to double, light pink

Very unusual for its bloom. Flowers are produced in November and again in the spring. In mild climates it will bloom sporadically all winter. It has a delicate branch pattern which adds to its winter interest.

**Prunus × yedoensis ‘Akebono’**

**Akebono Cherry**

**Zone:** 5  
**Height:** 25’  
**Spread:** 25’  
**Shape:** Upright, spreading  
**Foliage:** Medium green  
**Fall Color:** Yellow  
**Flower:** Pale pink, semi-double

Similar to Yoshino in form, but said to mature slightly smaller. Blooms have a stronger tint of pink.

**Prunus serrulata ‘Amanogawa’**

**Amanogawa Cherry**

**Zone:** 5  
**Height:** 20’  
**Spread:** 6’  
**Shape:** Columnar, fastigate branching  
**Foliage:** Green  
**Fall Color:** Bronze  
**Flower:** Pale pink, semi-double

Very narrow and tightly upright in growth, it forms a column of light pink flowers in the spring.

**Prunus subhirtella ‘Pendula Plena Rosea’**

**Double Weeping Cherry**  
**syn. Yae-Shidare-Higan**

**Zone:** 5  
**Height:** 25’  
**Spread:** 25’  
**Shape:** Weeping  
**Foliage:** Dark green  
**Fall Color:** Yellow to bronze  
**Flower:** Double, pink

Graceful form and an impressive spring floral display make this one of the best weeping trees. Contorted form is an unusual artistic expression of a classic ornamental tree.

**Prunus × yedoensis ‘JFS-KW14’ P.A.F.**

**First Blush® Cherry**

**Zone:** 5  
**Height:** 25’  
**Spread:** 12’  
**Shape:** Upright narrow oval  
**Foliage:** Dark green  
**Fall Color:** Orange to orange-red  
**Flower:** Pink, double, fragrant

Double pink flowers smother the branches of this very narrow, upright cherry. Dark green, finely textured leaves turn bright orange to orange-red in autumn.

**First Blush® Flowering Cherry**

Prunus ‘JFS-KW14’ P.A.F.

Bright, double pink flowers smother the slender branches of this narrow, upright cherry. Dark green, finely textured leaves turn bright orange to orange-red in autumn.

www.FirstBlushCherry.com
**Prunus serrulata ‘Kwanzan’**

**Kwanzan Cherry**

Zone: 5  
Height: 30’  
Spread: 20’  
Shape: Broad vase  
Foliage: Dark green  
Fall Color: Bronze-orange to orange-red  
Flower: Double, rosy pink in clusters  
Fruit: Seedless

Kwanzan’s large double pink flowers make it the showiest cherry in spring and account for its great popularity.

**Prunus ‘Okame’**

**Okame Cherry**

Zone: 5  
Height: 25’  
Spread: 20’  
Shape: Upright branching, oval  
Foliage: Dark green, fine textured  
Fall Color: Yellow-orange to orange-red  
Flower: Small, clear pink, profuse

Effective floral display of this very early-blooming cultivar is long lasting due to brightly colored flower bud and calyx. A hybrid of *P. incisa* × *P. campanulata*, Okame originated in England and was introduced to the U.S. by Morris Arboretum.

**Prunus ‘NCPH1’ PP 27579**

**Pink Cascade® Cherry**

Zone: 5  
Height: 12’  
Spread: 12’  
Shape: Weeping  
Foliage: Dark green, fine textured  
Fall Color: Orange  
Flower: Bright pink, prolific

Bright pink flowers smother the branches of this gracefully weeping cherry, setting it apart from the popular white-blooming Snow Fountains® Cherry which it resembles in summer appearance. Developed at North Carolina State University, this small and delicate garden tree is easy to grow.

**Prunus sargentii**

**Sargent Cherry**

Zone: 4  
Height: 30’  
Spread: 30’  
Shape: Upright, spreading branches, rounded crown  
Foliage: Dark green  
Fall Color: Bronze orange to orange-red  
Flower: Single pink, in clusters

Sargent displays some of the best fall color to be found among the Cherries. It has nice mahogany colored bark and is hardier than other Japanese Cherries.

**Prunus × ‘Snofozam’**

**Snow Fountains® Cherry**

Zone: 5  
Height: 12’  
Spread: 12’  
Shape: Weeping  
Foliage: Dark green, fine textured  
Fall Color: Orange  
Flower: Bright pink, prolific

A gracefully weeping, finely branched tree, Snow Fountains® is smaller than other weeping cherries. Its beautiful cascading form is easily pruned to change its character.

**Prunus × yedoensis**

**Yoshino Cherry**

Zone: 5  
Height: 30’  
Spread: 30’  
Shape: Upright branching, oval  
Foliage: Bright green, glossy  
Fall Color: Yellow  
Flower: Single light pink to white, fragrant

Yoshino is the tree which has been made famous by its blossom display at the Tidal Basin in Washington, D.C.
Prunus - Purple Leaf Plum

**Prunus × cistena ‘Schmidtcis’**

**Big Cis® Plum**

Zone: 4
Height: 14’
Spread: 12’
Shape: Rounded, dense
Foliage: Purple
Flower: Light pink, very fragrant

A sport of Cistena, Big Cis® Plum grows quickly to a heavy-trunked, sturdy tree that is intermediate in size between Cistena and Newport. Cistena-like flowers are followed by dark purple foliage that keeps its fresh, clean appearance later in the season.

**Prunus × cistena**

**Cistena Plum**

Zone: 3
Height: 8’
Spread: 8’
Shape: Rounded shrub
Foliage: Purple-red
Fall Color: Reddish
Flower: Very light pink, fragrant

This extremely hardy large shrub is very fragrant in bloom. Cistena holds its purple color all through the summer.

**Prunus cerasifera ‘Cripoizam’**

**Crimson Pointe™ Plum**

Zone: 4
Height: 25’
Spread: 10’
Shape: Columnar to narrow oval
Foliage: Purple red to purple bronze
Fall Color: Reddish
Flower: Pink buds, white flowers
Fruit: Purple, 1”

Pink buds open to white flowers that contrast nicely with the emerging purple foliage. This columnar selection develops a narrowly oval mature canopy. A strong central leader and a fast growth rate make it easy to produce in the nursery.

**Prunus ‘Frankthrees’**

**Mt. St. Helens® Plum**

Zone: 4
Height: 20’
Spread: 20’
Shape: Upright spreading, rounded
Foliage: Purple
Flower: Light pink

Dark purple leaves emerge earlier in the spring and hold their rich color longer into summer than other cultivars. A sport of Newport, this cultivar grows faster and develops a dense head supported by a stronger, sturdier trunk. This very hardy ornamental plum performs well where climates are extreme.

**Prunus cerasifera ‘Krauter Vesuvius’**

**Krauter Vesuvius Plum**

Zone: 5
Height: 20’
Spread: 15’
Shape: Upright
Foliage: Dark purple
Flower: Light pink

Similar to Thundercloud in appearance, but a little smaller and more upright. Due to its tolerance of hot dry weather, it seems to be the best flowering plum for southern climates.

**Prunus ‘Newport’**

**Newport Plum**

Zone: 3
Height: 20’
Spread: 20’
Shape: Upright spreading, dense, rounded
Foliage: Dark purple
Flower: Light pink

This hardy and widely used plum is quite adaptable and performs well in tough climates.

**Prunus cerasifera ‘Thundercloud’**

**Thundercloud Plum**

Zone: 5
Height: 20’
Spread: 20’
Shape: Upright spreading, dense, rounded
Foliage: Dark purple
Flower: Light pink

One of the best purple-leaved plums, it retains deep purple foliage color through the growing season. It has maintained steady popularity since its introduction in 1937.

**Prunus sargentii ‘JFS-KW58’**

**Pink Flair® Flowering Cherry**

Add flair and multi-season color to your landscape with this compact, heat and cold-resistant, small shade tree. Fragrant bright pink blooms, great foliage and bright orange-red fall color!

www.PinkFlairCherry.com
**Pyrus calleryana ‘Aristocrat’**

**Aristocrat® Pear**

- **Zone:** 4b
- **Height:** 40’
- **Spread:** 28’
- **Shape:** Pyramidal, with open, spreading branches
- **Foliage:** Narrow, dark green, glossy
- **Fall Color:** Deep red
- **Flower:** White

An outstanding pear selection with an unusual growth habit, Aristocrat® has an open, informal appearance. Branch angles are wider than other pears, thus more resistant to storm damage. Highly rated by the Ohio Shade Tree Evaluation Project.

**Pyrus calleryana ‘Autumn Blaze’**

**Autumn Blaze Pear**

- **Zone:** 4
- **Height:** 30’
- **Spread:** 25’
- **Shape:** Rounded
- **Foliage:** Glossy green
- **Fall Color:** Bright red
- **Flower:** White

Rounded shape with spreading branches. Foliage emerges with a red tint and matures to glossy green. Best cold hardiness of the Callery pears, and the earliest to develop fall color.

**Pyrus calleryana ‘Capital’**

**Capital Pear**

- **Zone:** 5
- **Height:** 35’
- **Spread:** 12’
- **Shape:** Columnar
- **Foliage:** Medium green, glossy
- **Fall Color:** Reddish-purple
- **Flower:** White

Columnar form introduced by U.S. National Arboretum. It has especially glossy summer foliage.

**Pyrus calleryana ‘Glen’s Form’**

**Chanticleer® Pear**

- **Zone:** 4
- **Height:** 40’
- **Spread:** 15’
- **Shape:** Upright, narrowly pyramidal
- **Foliage:** Green, glossy
- **Fall Color:** Reddish
- **Flower:** White, in clusters

**DISEASE RESISTANCE:** Fireblight

A densely growing, narrow selection suitable for street plantings. It is resistant to fireblight and much less susceptible to wind breakage than Bradford.

**Pyrus calleryana ‘Jaczam’**

**Jack® Pear**

- **Zone:** 4
- **Height:** 16’
- **Spread:** 10’
- **Shape:** Compact upright oval
- **Foliage:** Dark green
- **Fall Color:** Yellow
- **Flower:** White

Tight and upright in form, this cultivar is ideal for narrow streets and planting beneath utility wires. Its dwarf growth rate results in a cultivar that matures at less than half the size typical of the species. Its density and upright habit give the unusual combination of a formal appearance in a low maintenance tree.

**Pyrus calleryana ‘NCPX1’ PP 26539**

**Javelin® Pear**

- **Zone:** 5
- **Height:** 35’
- **Spread:** 10’
- **Shape:** Fastigiate, tightly columnar
- **Foliage:** Purple to bronze green
- **Fall Color:** Purple to maroon
- **Flower:** Pink buds open to white flowers

**DISEASE RESISTANCE:** Fireblight

The tightest and most columnar pear we have seen, it stays narrow as it matures. Unique foliage leaves out purple, and matures to bronze green in the heat of summer. Developed at North Carolina State University, this fireblight resistant pear is a great addition as a landscape exclamation point or for use on narrow streets.

**Pyrus ‘NCPX2’ P.A.F.**

**Chastity™ Pear**

- **Zone:** 5
- **Height:** 35’
- **Spread:** 25’
- **Shape:** Broadly pyramidal
- **Foliage:** Dark green, glossy
- **Fall Color:** Orange to red, purple highlights
- **Flower:** White, profuse
- **Fruit:** Sparse

This exciting new introduction should replace other flowering pears in areas where invasiveness is a concern. A triploid hybrid that is very ornamental and highly infertile, Chastity™ Pear was specifically bred to prevent weediness by Dr. Tom Ranney of North Carolina State University.

**Pink buds open to white flowers in early spring, followed by glossy foliage that emerges purple and matures to bronze-green. Columnar form is a great fit for narrow spaces.**

www.JavelinPear.com
**Pyrus calleryana ‘Redspire’**

**Redspire Pear**

Zone: 5  
Height: 35’  
Spread: 25’  
Shape: Pyramidal, dense and symmetrical  
Foliage: Medium green, glossy  
Fall Color: Yellow to red  
Flower: Abundant, white

A symmetrical shape and tight branching habit gives this tree a formal appearance. A good improvement over Bradford, as it stays smaller and narrower.

**Pyrus calleryana ‘Trinity’**

**Trinity® Pear**

Zone: 5  
Height: 30’  
Spread: 25’  
Shape: Broadly oval to round  
Foliage: Glossy green  
Fall Color: Orange-red  
Flower: White

This is a slightly smaller growing pear with a tight, rounded form.

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**Quercus**

**Quercus acutissima**

**Sawtooth Oak**

Zone: 5  
Height: 40’  
Spread: 40’  
Shape: Rounded  
Foliage: Dark green, glossy  
Fall Color: Yellow

A fast growing, spreading oak well adapted to the summer heat of the South. It has outstanding summer foliage. Very glossy and sharply serrated leaves give it a clean, crisp appearance.

**Quercus bicolor ‘JFS-KW12’ PP 23632**

**American Dream® Oak**

Zone: 4  
Height: 50’  
Spread: 40’  
Shape: Broadly pyramidal  
Foliage: Bright green, glossy  
Fall Color: Yellow

Vigorous growing and broadly pyramidal with excellent density, this tree shines with bright green, glossy foliage. Selected for strong resistance to anthracnose and powdery mildew, the broad, handsome leaves turn yellow and then tawny brown as they hold into early winter.

**Quercus bicolor ‘Bonnie and Mike’**

**Beacon® Oak**

Zone: 4  
Height: 40’  
Spread: 15’  
Shape: Narrowly columnar  
Foliage: Green  
Fall Color: Yellow

Tightly columnar and urban adaptable, this oak was discovered by famed plantsman Dr. Michael Dirr. The stout upright branching structure and dense green foliage makes this an ideal street tree and provide a strong visual statement. Nice yellow fall color.
**Swamp White Oak**

*Quercus bicolor*

Zone: 4  
Height: 45'  
Spread: 45'  
Shape: Rounded, open  
Foliage: Green with wavy margins  
Fall Color: Yellow brown to reddish

A beautiful native tree with lustrous, heavy textured green leaves with wavy margins. Adaptability to wet, poorly drained soils and tolerance of drought make it a fine choice for urban settings.

**Prairie Stature™ Oak**

*Quercus × bimundorum 'Midwest'*

Zone: 3  
Height: 50'  
Spread: 40'  
Shape: Broadly pyramidal  
Foliage: Dark green  
Fall Color: Yellow-orange to red

A hybrid of English and white oak, this tree has proven very cold hardy in North Dakota State University trials. Dark green foliage shows mildew resistance and can change to a good red coloration in autumn.

**Texas Red Oak**

*Quercus buckleyi*

Zone: 6  
Height: 40'  
Spread: 40'  
Shape: Broadly rounded  
Foliage: Green, glossy  
Fall Color: Orange-red to red

Native to Texas and Oklahoma, this is a moderate sized, drought tolerant oak. It spreads to form a broadly rounded crown and colors brightly in the fall.

**Scarlet Oak**

*Quercus coccinea*

Zone: 4  
Height: 50'  
Spread: 40'  
Shape: Upright spreading, open, broadly oval  
Foliage: Dark green, glossy  
Fall Color: Red

Scarlet Oak generally displays the finest fall color of the genus. Autumn brings deep, brilliant shades of red. Low maintenance and tolerant of dry soils and drought.

**Northern Pin Oak**

*Quercus ellipsoidalis*

Zone: 4  
Height: 55'  
Spread: 40'  
Shape: Broadly pyramidal to oval  
Foliage: Green  
Fall Color: Red

Closely related to Pin Oak, this tree shares many positive attributes and is also more tolerant of dry and alkaline soils. Also known as Hill’s Oak, its native range is the northern midwest, but it can be used more widely.

**Forest Green® Oak**

*Quercus frainetto 'Schmidt'*

Zone: 5b  
Height: 50'  
Spread: 30'  
Shape: Upright, oval  
Foliage: Deep green, very glossy, rounded lobes  
Fall Color: Yellow to brown

This is an upright growing, vigorous oak with a strong central leader. Drought resistant and adaptable, its glossy deep green foliage and strong symmetrical shape make it one of the best looking trees of summer.

**Gambel Oak**

*Quercus gambelii*

Zone: 5  
Height: 25'  
Spread: 25'  
Shape: Rounded  
Foliage: Dark green  
Fall Color: Yellow orange to orange red

Native to the dry, mountainous interior West, from Utah and Colorado to the Mexican border. Drought tolerant and hardy, it is an ideal tree for low maintenance landscapes in its native range.

**Shingle Oak**

*Quercus imbricaria*

Zone: 5  
Height: 50'  
Spread: 40'  
Shape: Broadly oval  
Foliage: Dark green, glossy  
Fall Color: Yellow to rusty red

Native to the midwest and well adapted to conditions there, including calcareous soils. A large shade tree with beautiful summer foliage.
Quercus muehlenbergii
Chinkapin Oak

Zone: 5
Height: 45’
Spread: 45’
Shape: Rounded, open
Foliage: Lustrous dark green
Fall Color: Yellow to yellow brown

A durable and adaptable oak with handsome glossy foliage. This native of the Northeast and Midwest has a reputation for performing well in Eastern U.S. forests for urban use. Freedom from major pests and diseases, a relatively fast growth rate and reported tolerance of urban salts are additional attributes.

Quercus × macdanielii ‘Clemons’ PP 11431
Heritage® Oak

Zone: 4
Height: 50’
Spread: 40’
Shape: Broadly pyramidal to oval
Foliage: Dark green, glossy
Fall Color: Yellow

Handsome dark green foliage, a broadly pyramidal form, and mildew resistance combine to make this an excellent street tree. An English x bur oak hybrid, it has better cold tolerance than English oak.

Quercus macrocarpa
Bur Oak

Zone: 3
Height: 55’
Spread: 45’
Shape: Broadly oval, irregular and open
Foliage: Dark green
Fall Color: Yellow to yellow brown

A large and impressive native tree, with a thick trunk and stout branches. Does well in alkaline soils.

Quercus macrocarpa ‘JFS-KW14’
Cobblestone® Oak

Zone: 3
Height: 55’
Spread: 45’
Shape: Broadly oval
Foliage: Dark green
Fall Color: Yellow

A traditional form of bur oak with the corkiest bark we have observed in the nursery. With bur oak’s rugged form and unusually corky branches, it has an “ancient tree” look at a young age. The handsome foliage is dark green and the tree was selected for mildew and anthracnose resistance.

Quercus macrocarpa ‘JFS-KW3’ PP 22815
Urban Pinnacle® Oak

Zone: 3
Height: 55’
Spread: 25’
Shape: Narrow, pyramidal to oval
Foliage: Dark green, glossy
Fall Color: Yellow
Fruit: Small acorn

Narrow and upright with a strong central leader, this cultivar also features attractive glossy foliage and resistance to both mildew and anthracnose. Acorns of about 1/2” diameter are extremely small for a bur oak, making it a more suitable tree for landscape and street tree use.

Quercus montana (formerly Q. prinus)
Chestnut Oak

Zone: 4
Height: 50’
Spread: 40’
Shape: Pyramidal in youth, irregularly rounded at maturity
Foliage: Green with wavy margins
Fall Color: Orange yellow to reddish brown

Tolerance of dry, rocky alkaline soils and periods of drought recommend this adaptable native of Eastern U.S. forests for urban use. Freedom from major pests and diseases, a relatively fast growth rate and reported tolerance of urban salts are additional attributes.

Quercus macrocarpa
Bur Oak

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Height: 55’
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Chestnut Oak

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Spread: 40’
Shape: Pyramidal in youth, irregularly rounded at maturity
Foliage: Green with wavy margins
Fall Color: Orange yellow to reddish brown

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Spread: 25’
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Foliage: Dark green, glossy
Fall Color: Yellow
Fruit: Small acorn

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Cobblestone® Oak

Zone: 3
Height: 55’
Spread: 45’
Shape: Broadly oval
Foliage: Dark green
Fall Color: Yellow

A traditional form of bur oak with the corkiest bark we have observed in the nursery. With bur oak’s rugged form and unusually corky branches, it has an “ancient tree” look at a young age. The handsome foliage is dark green and the tree was selected for mildew and anthracnose resistance.
**Quercus robur**

**English Oak**

- Zone: 5
- Height: 50’
- Spread: 40’
- Shape: Broad, rounded, open headed crown
- Foliage: Deep green
- Fall Color: Yellow-brown

A big sturdy tree, its size gives it character. It is quite adaptable to various soils and climates.

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**Quercus robur × alba 'Crimschmidt'**

**Crimson Spire™ Oak**

- Zone: 4
- Height: 45’
- Spread: 15’
- Shape: Columnar, tightly fastigiate
- Foliage: Dark green to bluish-green
- Fall Color: Rusty red

This columnar selection originated as a hybrid of *Q. robur* and *Q. alba*. White oak parentage provides dark green, mildew resistant foliage and reddish fall color. Fastigate growth habit is inherited from the English oak side.

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**Quercus robur × alba 'JFS-KW2QX'**

**Skinny Genes® Oak**

- Zone: 4
- Height: 45’
- Spread: 10’
- Shape: Columnar, tightly fastigiate
- Foliage: Dark green, glossy
- Fall Color: Yellow to tawny yellow

Columnar and fastigiate in form, it is the narrowest yet of the English x White Oak hybrids. The glossy, very dark green summer foliage is mildew resistant and gives a clean summer appearance, then turns yellow in autumn. Selected from second-generation seedlings of a sister of Crimson Spire™.

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**Quercus robur × bicolor 'Nadler' PP 17604**

**Kindred Spirit® Oak**

- Zone: 4
- Height: 30’
- Spread: 6’
- Shape: Tightly columnar
- Foliage: Medium green
- Fall Color: Yellow to yellow-brown

Among the tightest of columnar trees, its growth habit, mildew and drought resistance, and tolerance of urban soils make this hybrid of English and swamp white oak ideal for narrow city streets. A sister seedling of Regal Prince®, the foliage is less glossy but the form is significantly tighter.

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**Quercus robur × alba 'JFS-KW1QX'**

**Streetspire® Oak**

- Zone: 4
- Height: 45’
- Spread: 14’
- Shape: Narrow, columnar
- Foliage: Dark green
- Fall Color: Rusty red

Dark green leaves of this narrowly columnar tree are mildew resistant. Turning red in autumn, they fall to reveal stiffly upright branches. Similar to Crimson Spire™, but does not hold brown foliage through the winter. Wide crotch angles and short upsweeping branches create a storm resistant structure.

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**Quercus robur × alba 'Tabor' PP 21382**

**Forest Knight® Oak**

- Zone: 4
- Height: 50’
- Spread: 40’
- Shape: Broadly oval
- Foliage: Dark green, glossy
- Fall Color: Orange-red

Sturdy, symmetrical, and broadly oval, this cultivar develops into an excellent street tree. Good form and strong branching combine with mildew resistant foliage and orange-red fall color.

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**Quercus phellos**

**Willow Oak**

A fast growing oak with unique, slender,"willow-like" leaves. This is a popular and commonly planted shade tree. Widely used as a street and boulevard tree, as well as a shade tree for parks, golf courses, commercial sites and open spaces. Fast growing and one of the easier oaks to transplant due to its fibrous root system.

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**Quercus robur × alba**

**Shrubby Spire Oak**

Tightly columnar in form, this rugged, adaptable, cold hardy tree sports dark green, heat and drought tolerant leaves that turn rusty to dark red in autumn.

www.crimsonspire.com
**Quercus robur × bicolor 'Long' PP 12673**

**Regal Prince® Oak**

- **Zone:** 4
- **Height:** 45’
- **Spread:** 18’
- **Shape:** Columnar to narrow oval
- **Foliage:** Glossy, bright green
- **Fall Color:** Yellow

Mildew-resistant summer foliage is glossy, clean and bright green. This adaptable hybrid of English and Swamp White Oak is notable for excellent columnar form.

**Quercus robur 'Fastigiata'**

**Skyrocket® Oak**

- **Zone:** 5
- **Height:** 45’
- **Spread:** 15’
- **Shape:** Narrow, fastigiate
- **Foliage:** Dark green
- **Fall Color:** Yellow-brown

Skyrocket® provides a uniformly narrow shape, excellent for street plantings. Since its introduction by Schmidt in 1989, this selection has proven to stay tighter in form than the typical fastigiate English Oak.

**Quercus rubra**

**Red Oak**

- **Zone:** 4
- **Height:** 50’
- **Spread:** 45’
- **Shape:** Rounded
- **Foliage:** Dark green
- **Fall Color:** Red

Red Oak is a large, fast growing, broad headed tree. The large leaves turn from a rich green to deep red in the fall.

**Quercus shumardii**

**Shumard Oak**

An excellent substitute for Scarlet Oak in the central and S.E. USA. It thrives in moist, acid bottom lands where poor drainage creates problems for other trees.

**Quercus velutina**

**Northern Black Oak**

- **Zone:** 4
- **Height:** 50’
- **Spread:** 45’
- **Shape:** Oval to rounded
- **Foliage:** Dark green
- **Fall Color:** Red

Very similar in appearance to Red Oak, differences include its ability to thrive on poor and varied soils. Naturally occurring trees are often found on poor sandy sites or heavy clay hillsides. Deeply furrowed bark on mature trees is nearly black.

Dark green, heat and mildew-resistant leaves emerge with a red flush that hints at red fall color to come. Leaves drop cleanly in autumn to reveal stiffly upright, storm-resistant branches.

www.StreetspireOak.com
**Robinia - Locust**

**Robinia pseudoacacia 'Lace Lady'**

**Twisty Baby® Locust**

- **Zone:** 4
- **Height:** 20’
- **Spread:** 20’
- **Shape:** Irregularly spreading, contorted
- **Foliage:** Green, twisted
- **Fall Color:** Yellow
- **Flower:** White, in clusters

This is a dwarf, contorted tree of remarkable appearance. Branches twist and turn at every node; even the foliage twists. Its irregular, artistic form is as interesting in winter as in summer.

**Sassafras - Sassafras**

**Sassafras albidum**

**Sassafras**

- **Zone:** 4
- **Height:** 40’
- **Spread:** 30’
- **Shape:** Irregular pyramid
- **Foliage:** Green, lobed
- **Fall Color:** Bright red

This widespread eastern U.S. native is ideal for naturalistic landscaping. Both tree form and leaf shape are variable and interesting. A thicket of Sassafras brings a “woody” feel to the landscape.

**Salix - Willow**

**Salix alba 'Tristis'**

**Golden Weeping Willow**

- **Zone:** 3
- **Height:** 40’
- **Spread:** 60’
- **Shape:** Broadly weeping
- **Foliage:** Light green
- **Fall Color:** Yellow

Golden winter stems and graceful habit belie the tough character of this fast growing, tough and widely adapted weeping tree.

**Sorbus - Mountain Ash**

**Sorbus aucuparia**

**European Mountain Ash**

- **Zone:** 2
- **Height:** 35’
- **Spread:** 24’
- **Shape:** Upright and oval, becoming rounded
- **Foliage:** Dark green
- **Fall Color:** Rusty orange
- **Flower:** White, in clusters
- **Fruit:** Orange-red

A useful small tree that is particularly beautiful in autumn because of the abundant bright fruit. Schmidt trees are budded with a superior clone insuring uniformity of habit.

**Japanese Stewartia**

- **Sassafras**
- **www.jfschmidt.com**
- **www.SkinnyGenesOak.com**

Skinny jeans turn heads in the fashion world, just as this slender spire of bold-textured, dark green glossy leaves will catch admiring looks in your landscape.

www.SkinnyGenesOak.com
**Styrax**

**Cardinal Royal® Mountain Ash**

Sorbus aucuparia ‘Michred’

Zone: 2
Height: 35’
Spread: 20’
Shape: Upright
Foliage: Green
Fall Color: Rust
Flower: White, in clusters

A vigorous tree with upright branches and a very symmetrical and tidy habit. This tree was selected for its clusters of small brilliant red berries, much more spectacular than the orange of the species. Dark green foliage is silvery beneath.

**Oak-leaf Mountain Ash**

Sorbus × hybrida

Zone: 3
Height: 30’
Spread: 20’
Shape: Upright with ascending branches, oval head
Foliage: Lobed, divided
Fall Color: Rust
Flower: White, in clusters

Originating as a hybrid in Scandinavia, this Mountain Ash has an unusual leaf similar to English Oak, but divided to the midrib near the leaf base.

**Stewartia**

**Stewartia pseudocamellia**

Japanese Stewartia

Zone: 6
Height: 30’
Spread: 20’
Shape: Pyramidal to oval
Foliage: Medium to dark green
Fall Color: Orange, red, purple
Flower: White, orange anthers

Camellia-like white flowers up to 2 1/2” in diameter appear on this medium sized tree in July and August. Kaleidoscopic fall color includes red, orange and purple tones. Beautiful cream and tan patches are revealed as its trunk exfoliates with age.

**Styrax japonicus ‘Evening Light’ PP24168**

**Evening Light Snowbell**

Glossy deep purple foliage is unique among snowbells, providing a dramatically dark backdrop for fragrant white, bell shaped flowers that appear in June. With adequate soil moisture, some reblooming will occur.

**Styrax japonicus ‘Fragrant Fountain’ PP 19664**

**Fragrant Fountain Snowbell**

A cascade of fragrant blooms and dark green, glossy leaves smoother the delicately weeping branches of this small garden-sized tree. It blooms heavily from a young age, and appears more tolerant of temperature extremes than most seedlings of the species. The leader is easily trained to reach a desired height, from which it weeps gracefully.

**Styrax japonicus ‘JLWeeping’ PP 23755**

**Marley’s Pink™ Snowbell**

Strong nursery growth, bold foliage and improved form recommend this selection over other pink weeping Snowbell selections. Large, firm flowers and gracefully cascading character make it an all season winner for the ornamental garden.

**Styrax japonicus ‘Evening Light’ PP24168**

**Evening Light Snowbell**

Glossy deep purple foliage is unique among snowbells, providing a dramatically dark backdrop for fragrant white, bell shaped flowers that appear in June. With adequate soil moisture, some reblooming will occur.
Styrax japonicus ‘Pink Chimes’

**Pink Chimes Snowbell**

Zone: 5b
Height: 15’
Spread: 15’
Shape: Rounded with spreading branches
Foliage: Dark green
Fall Color: Yellow
Flower: Pink

Delicate pink bell-shaped flowers cloak this tree as summer begins. Smaller and slower growing than the white flowered cultivars, it has a delicate branch structure that is upright at first, and then spreads horizontally with some branches almost weeping. Outstanding in flower.

Styrax japonicus ‘JFS-E’

**Snow Charm® Snowbell**

Zone: 5
Height: 20’
Spread: 20’
Shape: Rounded
Foliage: Dark green
Fall Color: Yellow
Flower: Pure white, bell shaped

Reliable and easy to grow, this Schmidt introduction selected from a highly variable species assures a rounded form. Like Snowcone®, it resists twig dieback, but has larger leaves and a broader, more traditional form.

Styrax japonicus ‘JFS-D’

**Snowcone® Snowbell**

Zone: 5
Height: 25’
Spread: 20’
Shape: Broadly pyramidal, dense
Foliage: Dark green, fine textured
Fall Color: Yellow
Flower: Pure white, bell shaped

Fine textured foliage is dense and dark green, combining with symmetrical, upright branches to create a slender tree of great uniformity. It is resistant to twig dieback that is common in seedling grown trees.

Styrax japonicus ‘Spring Showers’

**Spring Showers Snowbell**

Zone: 5
Height: 20’
Spread: 15’
Shape: Upright oval
Foliage: Dark green
Fall Color: Yellow
Flower: Pure white, bell shaped

Bud break that takes place two to three weeks later than is typical of the species allows this U.S. National Arboretum release to be successfully grown in areas subject to late spring freezes.

Styrax obassia

**Fragrant Snowbell**

Zone: 5
Height: 25’
Spread: 20’
Shape: Oval
Foliage: Dark green
Fall Color: Yellow
Flower: White, fragrant, in chains

Loose chains of fragrant pure white flowers decorate the canopy in late spring. Blooming about two weeks earlier than *S. japonicus*, its larger, rounded leaves and upright spreading branches give it a bolder texture and a striking winter silhouette.

Syringa

**Lilac - Tree Form**

*Syringa meyeri* ‘Palibin’

**Dwarf Korean Lilac**

Zone: 4
Height: 8’
Spread: 5’
Shape: Compact, rounded shrub, grown on a standard
Foliage: Green, fine textured
Flower: Lavender-pink

A beautiful rounded shrub of compact growth, with small leaves and clusters of lavender-pink flowers.

*Syringa ‘SMSJP7’ PP 26549*

**Bloomerang® Dark Purple Lilac**

Zone: 3a
Height: 8’
Spread: 5’
Shape: Rounded
Foliage: Green
Fall Color: Yellow
Flower: Dark purple, fragrant

A sturdy standard raises the fragrant blooms of this popular shrub to nose and eye level. The springtime display of dark purple flowers is repeated until late summer, adding months of colorful and pollinator-friendly blooms to the garden. Vigorous and deer resistant.

*Syringa japonica*

**Snowbell**

Styrax japonicus ‘JFS-D’

An inverted icy snow cone treat inspired the name of this superior selection of Japanese Snowbell that flowers at an early age and resists winter twig dieback. Its dense, dark green, refined foliage and symmetrical branch structure form a narrow tree of great uniformity that lends a air of formality to landscapes.

**www.SnowconeSnowbell.com**
**Syringa**

**Syringa pekinensis ‘Zhang Zhiming’**

**Beijing Gold® Tree Lilac**

Zone: 5  
Height: 20'  
Spread: 20'  
Shape: Upright spreading  
Foliage: Dark green  
Fall Color: Yellow  
Flower: Yellow, in clusters

Sprays of yellow flowers borne in June bring a whole new color spectrum to the world of tree lilacs! This is a vigorous selection with upright spreading, arching branches in a species that matures to a small size.

**Syringa pekinensis ‘Morton’**

**China Snow® Tree Lilac**

Zone: 5  
Height: 20'  
Spread: 20'  
Shape: Upright spreading  
Foliage: Dark green  
Fall Color: Yellow  
Flower: Creamy white clusters

Large sprays of cream-white flowers are borne in June by this small ornamental tree. Amber to orange-brown exfoliating bark extends seasonal interest through the winter months.

**Syringa pekinensis ‘WFH2’ P.A.F.**

**Great Wall™ Tree Lilac**

Zone: 3  
Height: 20'  
Spread: 12'  
Shape: Upright oval  
Foliage: Dark green, glossy  
Fall Color: Golden yellow  
Flower: Bright white, in clusters

Sparkling white flower clusters in late spring, glossy green foliage, and cherry-like, exfoliating bark recommend this compact beauty as an all-season ornamental. Pest and disease resistance, adaptability and small stature merit its inclusion in our UtiliTrees™ program.

**Syringa reticulata ‘Ivory Silk’**

**Ivory Silk® Japanese Tree Lilac**

Zone: 4  
Height: 20'  
Spread: 15'  
Shape: Upright spreading becoming rounded  
Foliage: Dark green  
Flower: Creamy white panicles

Large plumes of small white flowers smother its branches in early summer.

**Syringa pekinensis**

**Cascade Falls™ Bald Cypress**

Zone: 5  
Height: 55'  
Spread: 30'  
Shape: Pyramidal  
Foliage: Medium green, deciduous conifer  
Fall Color: Rusty orange

Native to wetlands of the South, bald cypress is also surprisingly tolerant of dry soils and is hardy enough to survive in parts of southern Canada. A deciduous conifer, it has done well in urban street plantings.

**Taxodium distichum**

**Bald Cypress**

Zone: 5  
Height: 10'  
Spread: 12'  
Shape: Weeping  
Foliage: Fine textured, green  
Fall Color: Rusty orange

As its name implies, soft green foliage cascades from gracefully weeping branches. This deciduous conifer grows to the height to which it is staked, then weeps to the ground.
**Green Whisper® Bald Cypress**

*Taxodium distichum 'JFS-SGPN'*

Zone: 5  
Height: 55’  
Spread: 30’  
Shape: Pyramidal  
Foliage: Fresh, bright green  
Fall Color: Rusty orange

The freshest, softest, brightest green foliage that we have seen in a bald cypress gives this tree an inviting appearance and the appeal of a fluffy green feather pillow. Vigorous growth and upright pyramidal form also make it stand out from seedlings.

**Shawnee Brave™ Bald Cypress**

*Taxodium distichum 'Mickelson'*

Zone: 5  
Height: 55’  
Spread: 30’  
Shape: Narrowly pyramidal  
Foliage: Green, deciduous needles  
Fall Color: Rusty orange

A deciduous conifer which has proven to be widely adaptable to city conditions, it will grow in standing water or in well drained soils.

**Lindsey’s Skyward™ Bald Cypress**

*Taxodium distichum ‘Skyward’ PP 22812*

Zone: 5  
Height: 25’  
Spread: 10’  
Shape: Upright columnar  
Foliage: Green, deciduous needles  
Fall Color: Rusty orange

The branch habit is remarkably upright, resulting in a deciduous conifer with a completely unique appearance. Unlike all previous bald cypress cultivars, its branches ascend stiffly and tightly to form a symmetrical column.

**Greenfeather® Pond Cypress**

*Taxodium ascendens ‘Carolyn Malone’*

Zone: 5  
Height: 50’  
Spread: 20’  
Shape: Narrow, pyramidal  
Foliage: Light green  
Fall Color: Rusty orange

Tantalizingly soft, feathery green foliage turns to rich rusty orange in autumn. Refined needles fall to reveal handsome winter branches that let winter sunlight shine through.

**Crimean Linden**

*Tilia x euchlora*

Zone: 5  
Height: 40’  
Spread: 35’  
Shape: Broadly pyramidal to oval  
Foliage: Glossy medium green  
Fall Color: Yellow

Exceptionally nice foliage is glossy medium green. Individual leaves turn bright yellow in the fall, giving the tree a mottled look with contrasting bright green and bright yellow leaves scattered throughout. Golden green twigs add winter interest.

**Glenleven Linden**

*Tilia × flavescens ‘Glenleven’*

Zone: 3  
Height: 50’  
Spread: 30’  
Shape: Pyramidal  
Foliage: Medium green  
Fall Color: Yellow

Glenleven is very similar to a *Tilia cordata*, but is faster growing and is now recognized as a hybrid. It produces a pyramidal form that matures to a greater height, and is a bit more open and informal than Greenspire®.

Soft, feathery, bright green foliage is as light and airy as its name implies, and heat tolerant, too. Selected by John Malone of Summershade Nursery in Georgia. This upright, narrow selection offers a uniform growth rate while tolerating extremes including drought and standing water conditions.
**Tilia americana**

**American Linden**

Tilia americana 'McK Sentry' 

**American Sentry® Linden**

**Zone:** 3  
**Height:** 45'  
**Spread:** 30'  
**Shape:** Pyramidal, symmetrical  
**Foliage:** Medium green  
**Fall Color:** Yellow

This handsome and hardy cultivar of the native American basswood was introduced by McKay Nursery of Wisconsin. It develops a very straight trunk that supports a well-branched, very uniform canopy.

Tilia americana 'Boulevard' 

**Boulevard Linden**

**Zone:** 3  
**Height:** 50'  
**Spread:** 25'  
**Shape:** Narrowly pyramidal  
**Foliage:** Medium green  
**Fall Color:** Yellow

Tall and narrow, this selection of the native American Basswood is very hardy and well suited to street plantings.

Tilia tomentosa 'PNI 6051'

**Green Mountain® Linden**

**Zone:** 5  
**Height:** 45'  
**Spread:** 35'  
**Shape:** Broadly pyramidal to oval  
**Foliage:** Dark green with silvery-white undersurface  
**Fall Color:** Yellow

Upright, symmetrical growth habit forming a dense canopy. Wind causes a shimmering effect as it ruffles the dark green leaves to reveal the silvery white undersides.

Tilia tomentosa 'Sterling'

**Sterling Linden**

**Zone:** 5  
**Height:** 45'  
**Spread:** 35'  
**Shape:** Broadly pyramidal  
**Foliage:** Medium green with silver-gray undersurface  
**Fall Color:** Yellow

INSECT RESISTANCE: Japanese beetle

A vigorous growing tree with a very neat and symmetrical shape. Its two-tone leaves, dark green above and silver below, shimmer in the slightest breeze. Thanks to their fuzzy (tomentose) texture, they resist the feeding of insects.

Tilia americana × euchlora 'Redmond'

**Redmond Linden**

**Zone:** 3  
**Height:** 35'  
**Spread:** 25'  
**Shape:** Densely pyramidal  
**Foliage:** Light green  
**Fall Color:** Yellow

Rapid growth and heavy caliper development at a young age give this sturdy cultivar a head start in the nursery and in the landscape. Large leaves give it a coarser textured appearance as it matures to a pyramidal and symmetrical shape.
**Tilia cordata**

*Corinthian® Linden*

**Zone:** 3  
**Height:** 45'  
**Spread:** 15'  
**Shape:** Narrowly pyramidal  
**Foliage:** Dark green  
**Fall Color:** Yellow

This is the narrowest of the Linden cultivars. Small, thick, deep green leaves give it a finer textured, more delicate appearance.

**Tilia cordata 'Greenspire'**

*Greenspire® Linden*

**Zone:** 4  
**Height:** 40'  
**Spread:** 30'  
**Shape:** Pyramidal, symmetrical  
**Foliage:** Dark green  
**Fall Color:** Yellow

Introduced in 1961, this durable cultivar has become the standard of comparison among the Lindens. It has a strong central leader, very uniform branch arrangement and a symmetrical, pyramidal form.

**Tilia cordata × mongolica ‘Harvest Gold’ PP 12232**

*Harvest Gold Linden*

**Zone:** 3  
**Height:** 40'  
**Spread:** 30'  
**Shape:** Pyramidal  
**Foliage:** Deep green  
**Fall Color:** Bright golden yellow

Very hardy and faster growing in the nursery than *T. cordata* cultivars, this Linden sports deep green, glossy foliage through the summer months. Its name is inspired by a mantle of bright golden yellow leaves in autumn.

**Tilia cordata ‘Baileyi’**

*Shamrock® Linden*

**Zone:** 4  
**Height:** 40'  
**Spread:** 30'  
**Shape:** Pyramidal, symmetrical  
**Foliage:** Dark green  
**Fall Color:** Yellow

A pyramidal form of linden, similar to Greenspire®, but a little faster growing. It branches more uniformly around the trunk at an earlier age.

**Tilia cordata ‘Halka’**

*Summer Sprite® Linden*

**Zone:** 4  
**Height:** 20’  
**Spread:** 15’  
**Shape:** Semi-dwarf, rounded pyramid  
**Foliage:** Green  
**Fall Color:** Yellow

Perfect for confined city spaces, this natural semi-dwarf develops a dense and compact form with a rounded to upright oval shape and a sheared appearance.

**Ulmus americana**

*American Elm*

**Ulmus americana ‘JFS-Prince II’**

*Colonial Spirit® Elm*

**Zone:** 4  
**Height:** 65’  
**Spread:** 50’  
**Shape:** Vase with arching limbs  
**Foliage:** Dark green  
**Fall Color:** Yellow

**DISEASE TOLERANCE:** Dutch elm disease  
Strong branch structure is manageable in both the nursery and the landscape, resulting in a symetrically vase shaped tree of classic American elm form. This survivor of Dutch elm disease has proven tolerant by surviving controlled testing.

**Princeton Elm**
As disease resistant elm cultivars become more available in the nursery trade, be sure yours are grown on their own roots or on disease resistant rootstocks! Asian hybrids will retain their disease resistance whether propagated “own root,” or budded or grafted onto U. pumila or U. parvifolia rootstocks. Because American elm cultivars are not compatible with these rootstocks, they are sometimes budded or grafted onto American elm rootstock, an unacceptable practice that negates their disease resistance. “Own root” propagation is the only proven way to propagate disease resistant American elms, and the method we use to assure you of healthy trees.
**Ulmus parvifolia**

*Ulmus parvifolia* 'Emer II'

**Allee® Elm**

- **Zone:** 5
- **Height:** 50’
- **Spread:** 35’
- **Shape:** Upright vase, arching
- **Foliage:** Medium green, glossy
- **Fall Color:** Yellow-orange to rust red

**DISEASE TOLERANCE:** Dutch elm disease and phloem necrosis

Tall, upright and arching, this cultivar’s growth habit is unique among *U. parvifolia* cultivars, being reminiscent of the grand American Elm. Its exfoliating bark creates a mosaic of orange, tan and gray, a beautiful sight on a mature tree. Discovered by Dr. Michael Dirr of University of Georgia, Athens.

**Emerald Flair® Elm**

- **Zone:** 5
- **Height:** 40’
- **Spread:** 35’
- **Shape:** Upright spreading vase
- **Foliage:** Deep green
- **Fall Color:** Red to orange-red

**DISEASE TOLERANCE:** Dutch elm disease and phloem necrosis

This tree features the best summer foliage we have seen in the species. The deep, dark green foliage is so healthy that it stands out from other selections. Broadly vase shaped with arching branches, it has better red fall color than most cultivars.

**Ulmus japonica × wilsoniana** 'Morton'

**Accolade™ Elm**

- **Zone:** 4
- **Height:** 70’
- **Spread:** 60’
- **Shape:** Vase with arching limbs
- **Foliage:** Glossy, dark green
- **Fall Color:** Yellow

**INSECT RESISTANCE:** Elm leaf beetle

**DISEASE TOLERANCE:** Dutch elm disease and phloem necrosis

Arching limbs and a graceful vase shape characterize this outstanding hybrid elm selected and tested at Morton Arboretum. Glossy dark green foliage changes to yellow in the fall and is resistant to elm leaf beetle feeding. Growth habit gives good form in the nursery and an ultimate form like the American Elm.

**Ulmus davidiana** 'JFS KW2UD'

**Greenstone™ Elm**

- **Zone:** 4
- **Height:** 60’
- **Spread:** 40’
- **Shape:** Upright vase
- **Foliage:** Medium green
- **Fall Color:** Yellow

**DISEASE TOLERANCE:** Dutch elm disease and phloem necrosis

Through years of testing, this vigorous grower has proven to be the top performer among trees grown from seed collected at the Northern edge of its native range in China. Its strong branches with open angles develop into an upright vase shape resembling that of the classic American elm.

**New Horizon Elm**

Strong branches with open angles form an upright, vase shape reminiscent of the classic American Elm. Disease-resistant green leaves turn rich yellow in autumn.

www.GreenstoneElm.com
Deep green, strongly textured leaves of this heat and drought tolerant tree cast cool shade all summer. An easy care tree with superior disease and insect resistance.

www.EmeraldSunshineElm.com
**Patriot Elm**

**Zone:** 4  
**Height:** 50’  
**Spread:** 40’  
**Shape:** Upright, narrow vase  
**Foliage:** Dark green  
**Fall Color:** Yellow

**DISEASE TOLERANCE:** Dutch elm disease and phloem necrosis  

Stiffly ascending branches of this National Arboretum introduction form a vase-shaped crown that is more narrow than typical of most elm cultivars. The boldly textured foliage of this complex hybrid of *Ulmus wilsoniana*, *U. pumila*, *U. carpinifolia* and *U. glabra* is especially dark green.

**Triumph™ Elm**

**Zone:** 4  
**Height:** 55’  
**Spread:** 45’  
**Shape:** Upright oval to vase  
**Foliage:** Glossy dark green  
**Fall Color:** Yellow

**DISEASE TOLERANCE:** Dutch elm disease and phloem necrosis  

Remarkably dark green and glossy foliage and a sturdy, symmetrical growth habit distinguish this Morton Arboretum introduction. Hybrid parentage is *Ulmus wilsoniana*, *U. japonica*, and *U. pumila*.

**Prospector Elm**

**Zone:** 4b  
**Height:** 40’  
**Spread:** 30’  
**Shape:** Vase  
**Foliage:** Deep green, glossy  
**Fall Color:** Yellow

**INSECT RESISTANCE:** elm leaf beetle  
**DISEASE TOLERANCE:** Dutch elm disease and phloem necrosis  

This cultivar forms a broadly vase shaped crown at an early age, and provides the form and toughness of the American Elm without its problems. This National Arboretum introduction has proven to be widely adaptable to climatic extremes.
Zelkova

Zelkova serrata ‘JFS-KW1’ PP 20996

City Sprite® Zelkova

Zone: 5
Height: 24'
Spread: 18'
Shape: Compact oval to vase
Foliage: Bright green, fine textured
Fall Color: Yellow

Ideal for narrow street use, tightly upright branches allow good vehicle and pedestrian clearance beneath the delicate green canopy.

Zelkova serrata ‘Green Vase’

Green Vase® Zelkova

Zone: 5
Height: 45'
Spread: 30'
Shape: Vase with upright arching branches
Foliage: Green
Fall Color: Orange

A vigorous Zelkova selection, producing a taller, more graceful tree than ‘Village Green’. Its finer textured foliage produces dappled shade.

Zelkova serrata ‘Village Green’

Village Green™ Zelkova

Zone: 5
Height: 40'
Spread: 40'
Shape: Rounded vase
Foliage: Deep green
Fall Color: Rusty red

This widely used cultivar is more upright and faster growing than the species. Foliage is very dense, dark green and presents a clean appearance.

Zelkova serrata ‘Schmidtlow’

Wireless® Zelkova

Zone: 5
Height: 24'
Spread: 36'
Shape: Broadly spreading vase
Foliage: Medium green
Fall Color: Red

Selected for its low height and broad spreading shape, this cultivar has an ideal shape for street plantings under utility lines. Its red fall color is a surprising bonus feature.

Zelkova serrata ‘Musashino’

Musashino Columnar Zelkova

Zone: 5
Height: 45'
Spread: 15'
Shape: Very narrow upright vase
Foliage: Medium green
Fall Color: Yellow

Ideal for narrow street use, tightly upright branches allow good vehicle and pedestrian clearance beneath the delicate green canopy.

City Sprite® Zelkova

Compact, dense, and semi-dwarf, this is the perfect little tree for tight urban spaces. Summer foliage appears brighter green than typical Zelkova. Short internodes, fine textured foliage, and a tidy growth habit promise a low maintenance city tree.

Compact, dense, and semi-dwarf, this is the perfect little tree for tight urban spaces. Summer foliage appears brighter green than typical Zelkova. Short internodes, fine textured foliage, and a tidy growth habit promise a low maintenance city tree.

Vigorous growth habit and a compact, dense, semi-dwarf form recommend this as the perfect tree for tight urban spaces, courtyards and small-scale gardens.

www.CitySpriteZelkova.com
Bringing a new tree to market

Chicagoland Grows®

Introduction

Exclamation!® London Planetree

Growing trees is an exercise in patience and faith in the future. It takes a long time and many skilled hands to grow beautiful, resilient, durable trees that will cast shade for future generations. Bringing new and improved trees to the marketplace is a collaborative, multi-generational effort that takes even longer.

Our illustration chronicles the creation of the relatively fast-growing Exclamation!® London Planetree. In the early ‘80s, Dr. George Ware of Morton Arboretum set out to develop Platanus cultivars with superior anthracnose resistance. One outstanding hybrid became Exclamation!® and was introduced by Chicagoland Grows®. JFS sold its first Exclamation!® bare root liners in 2009. Among those was the tree pictured on Page 53 that now grows in an allée of matching trees on a downtown Portland street.

We are grateful for the tree growth timeline which so elegantly illustrates the time and teamwork it takes to introduce a superior new tree. Created by John Evans, Principal at Hoerr Schaudt Landscape Architects of Chicago, Illinois, and used with permission. © Hoerr Schaudt Landscape Architects
Turn the pages of our Redpointe® Maple family album, and you’ll see this kid growing up to play a starring role in our arboretum. From a bare root tree planted in 2009, it has grown steadily more beautiful with each passing year. Fall color is delightfully bright, and summer foliage deliciously dark green.

Balanced, well-behaved growth and strong branch attachments with ideal angles make it an easy-care tree in the nursery, streetscape, park or garden. Improved pest and disease resistance plus tolerance of heat, drought, and alkaline soils have helped this youngster graduate at the top of its class.

Seventeen years in the making, Redpointe® Maple outperformed thousands of other red maple seedlings being trialed by our R&D department. Chosen for introduction in 2006, it has proven remarkably adaptable and has since become our top selling shade tree.
Trees worthy of our UtiliTrees™ designation are those best suited for planting in the restricted zone between street and sidewalk and beneath utility lines. Their short stature at maturity makes them less likely to tangle with overhead lines.

Pedestrian-friendly branching is compact or vase-shaped to allow for pruning without destroying the shape of the tree. These disease and pest-resistant cultivars require minimal maintenance and are tolerant of varied soils, climates and urban growing conditions.

Landscape architects, urban foresters, utility company arborists and other tree specifiers are invited to use our TreeLocator™ service to find these trees in their region, grown to landscape size by our customers.

Visit www.utilitrees.com to download a PDF that contains all of our UtiliTrees™ selections.

www.TreesAreTheAnswer.info is your go-to resource designed to help tree growers, landscape architects, city foresters, arborists, community activists, homeowners and others choose, grow and care for the trees that shade our communities. Trees are the answer to a broad range of environmental, economic, social and human health problems. Explore our site to discover hundreds of links that will connect you with tools and information you can use to leverage the value of trees. Bookmark it today!
This map follows the USDA cold hardiness system, which is based on average minimum temperatures in each area and gives a guideline for plant adaptability.

Plant material in our catalog is rated with a USDA zone number, which is correct to the best of our knowledge. Zones can be divided further into “a” or “b”. When used, “a” refers to the colder half of the zone and “b” to the warmer half.

For example, Zone 4a indicates temperatures of -25 to -30 °F. However, we cannot be responsible for hardiness since growing conditions, site selection and unusual winter weather will affect winter survival.

Additional cold hardiness zone information and an interactive GIS-based map, searchable by ZIP Code, may be found at: http://jfss.co/USDAZone
Index

Acer (Maple) .................................................. 4
buergarianum (Trident) .............................. 4
campestris (Hedge) ................................. 4
circinatum (Vine) ................................. 5
freemani .............................................. 5
ginnala (Amur) ..................................... 6
grandidentatum (Big Tooth) ........... 7
griseum (Paperbark) ........... 7
japonicum (Full Moon) ........ 8
miyobei (State Street) ........ 8
negundo (Box Elder) ........ 8
nigra (Black) ................................. 8
palmatum (Japanese) ....................... 9
platanoideas (Norway) ........... 10
pseudosieboldianum (Korean) ........ 11
rubrum (Red) ................................. 12
saccarinum (Silver) ..................... 14
saccharum (Sugar) ................. 15
tatarica (Tatarian) ................. 17
truncate (Tatarian) ..................... 18
Aesculus (Buckeye, Horsechestnut) .... 18
Alder – Alnus ........................................... 19
Aulis (Alder) ................................. 19
Amelanchier (Serviceberry) .......... 19
Asimina (Pawpaw) .................. 20
Ash – Fraxinus ....................................... 34
Aspen – Populus .................................. 54
Bald Cypress – Taxodium ........ 67
Beech – Fagus ....................................... 32
Betula (Birch) ............................... 20
Birch – Betula ....................................... 20
Buckeye – Aesculus ...................... 18
Caragana (Siberian Peashrub) ...... 22
Carpinus (Hornbeam) .............. 22
Catawba ........................................... 24
Cedar – Cedrus ............................... 24
Cedrus (Cedar) ......................... 24
Celtis (Hackberry) ...................... 24
Cercidiphyllum (Katsura Tree) .. 25
Cercis (Redbud) .............................. 25
Chamaecyparis (Falsecypress) .... 26
Cherry, Japanese – Prunus ........ 55
Chionanthus (Fringee Tree) ...... 26
Chokecherry – Prunus .................. 55
Clerodendrum (Yellowwood) ..... 27
Cork Tree – Phellodendron .......... 52
Cornelian Cherry – Cornus ......... 27
Cornus (Cornelian Cherry, Dogwood) ...... 27
Corylus (Turkish Hazel) .......... 31
Cottonwood – Populus .............. 54
Crabapple – Malus ......................... 41
Crataegus (Hawthorn) .......... 31
Dawn Redwood – Metasequoia .... 50
Dogwood – Cornus ....................... 25
Elaeagnus (Olive) ....................... 32
Elm – Ulmus ................................. 70
Euonymus (Hardy Rubber Tree) ... 32
Falsecypress – Chamaecyparis .... 26
Fagus (Beech) ............................. 32
Franklinia (Franklin Tree) ......... 33
Fraxinus (Ash) .............................. 34
Fringe Tree – Chionanthus .......... 26
Gingko ............................................. 34
Gleditsia (Honeylocust) .......... 35
Goldenchain – Laburnum .......... 36
Goldenrain Tree – Koelreuteria .... 35
Gymnocladus (Kentucky Coffee Tree) ............................... 36
Hackberry – Celtis ......................... 35
Halesia (Silverbell) .................... 36
Hamamelis (Witch Hazel) .......... 36
Hardy Rubber Tree – Euonymus .... 32
Hawthorn – Crataegus ............... 31
Heptacodium (Seven-son Flower) .. 37
Honeylocust – Gleditsia .......... 35
Hophornbeam – Ostrya .......... 51
Hornbeam – Carpinus ............... 22
Horsechestnut – Aesculus ............ 19
Hydrangea ........................................ 43
Katsura Tree – Cercidiphyllum .... 25
Kentucky Coffee Tree – Gymnocladus .... 36
Koelreuteria (Goldenrain Tree) .... 37
Laburnum (Goldenchain) ........... 38
Lilac – Syringa .................................. 66
Linden – Tilia .................................... 62
Liquidamber (Sweetgum) ............ 38
Liriodendron (Tulip Tree) ......... 38
Locust – Robinia ......................... 64
Maackia ............................................ 39
Malus (Crabapple) .................... 39
Magnolia ......................................... 39
Maple – Acer ..................................... 4
Metasequoia (Dawn Redwood) ...... 50
Morus (Mulberry) .................... 50
Mountain Ash – Sorbus ............ 64
Mulberry – Morus ...................... 50
Ninebark – Physocarpus .......... 52
Nyssa (Tupelo) ............................. 50
Oak – Quercus .............................. 59
Olive – Elaeagnus ......................... 32
Osage Orange – Maclura ............ 39
Ostrya (Hophornbeam) ............ 51
Oxydendrum (Sourwood) ........... 51
Parrotia ........................................... 52
Pawpaw – Asimina .................... 20
Pear, Flowering – Pyrus ............... 58
Phellodendron (Cork Tree) ........... 52
Physocarpus (Ninebark) .......... 52
Picea (Spruce) ............................. 53
Pine – Pinus ..................................... 53
Pinus (Pine) ................................... 53
Pistacia (Pistach) ......................... 53
Poplar – Populus ............................ 54
Populus (Aspen, Cottonwood, Poplar) .... 54
Prunus (Cherry, Japanese) ....... 55
Prunus (Chokecherry) .............. 55
Prunus (Plum, Purple Leaf) ....... 57
Pyrus (Pear, Flowering) .......... 58
Quercus (Oak) ............................... 59
Redbud – Cercis .............................. 25
Robinia (Locust) ......................... 64
Salix (Willow) ............................... 64
Sassafras ......................................... 64
Serviceberry – Amelanchier ......... 19
Seven-seve Flower – Heptacodium . 37
Siberian Peashrub – Caragana ...... 22
Silverbell – Halesia ....................... 36
Snowbell – Styrax ............................ 65
Sorbus (Mountain Ash) ............. 64
Sourwood – Oxydendrum .......... 51
Spruce – Picea ............................... 24
Stewartia ......................................... 65
Syrrax (Snowbell) ......................... 65
Sweetgum – Liquidambar ............ 38
Syringa (Lilac) .............................. 66
Taxodium (Bald Cypress) ......... 67
Tilia (Linden) ............................... 68
Tulip Tree – Liriodendron .......... 38
Tupelo – Nyssa ............................... 50
Turkish Hazel – Corylus .......... 31
Ulmus (Elm) .................................... 70
Willow – Salix ............................... 64
Witch Hazel – Hamamelis .......... 36
Yellowwood – Cadrastis ............. 27
Zelkova .......................................... 75

J. Frank Schmidt, Jr. Arboretum

We invite you to see for yourself what sets our nursery apart from the others. We are proud of the wide range of high quality trees we grow, and would like to show them to you. A personalized tour of our fields will help us to serve your plant material needs better than ever.

Remember that the J. Frank Schmidt, Jr. Arboretum is always available for customer use and enjoyment. Established more that 30 years ago, it showcases hundreds of species and cultivars. The show of flower, fruit, foliage and form changes daily throughout the year.

We encourage you to bring your camera and enjoy!

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