



WHOLESALE GROWERS OF HIGH QUALITY BAREROOT ~ TREES, SHRUBS, ROOTSTOCKS, & SEEDLINGS

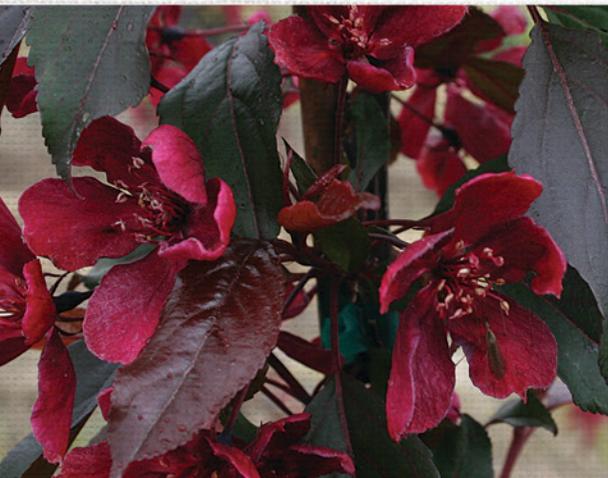
Providing the finest in Quality, Performance & Value Since 1890

carlton[®]
PLANTS

www.carltonplants.com

COVER PHOTO:
"MALUS DONALD WYMAN"

Discovered as a seedling at the Arnold Arboretum in Boston about 1950 it is named after Donald Wyman who served as Arnold's horticulturist from 1936-1993. It is still sought after today for its multi-season interest with fragrant white flowers, fall leaf color and persistent red fruit. Low maintenance, easy care. Listed on page 29.



UTILIZING A STRONG FOUNDATION BUILT ON MANY YEARS OF EXPERIENCE, CARLTON PLANTS CONTINUES TO SUCCEED THROUGH INNOVATION & CHANGE.

UNDERCUTTING:

At Carlton, we've been undercutting for over 25 years. Our program has been expanded and refined. Numerous pieces of equipment have been developed to undercut trees and shrubs. Careful observations and evaluations have shown us how timing, blade depth and rootstocks all interact. Undercutting benefits coarse rooted plants by stimulating a more compact, fibrous root system. Branching is also reduced and brings the head of the tree or shrub into proportion with the root system. Undercutting also results in reduced freight costs, less dormant pruning, greater livability and stronger growth the first season. Many of our customers also find that the undercut root system conforms better to their containerized potting program.

Most of our undercut trees are listed separately

in the catalog by variety. For more information or a complete list, just ask your sales representative. If you're interested in seeing the undercut vs. non-undercut trees growing in our fields, we would be happy to give you a tour the next time you visit.

COLD STORAGE FACILITY:

Our cold storage warehouse facility totals five acres of refrigerated storage space. Our stock is counted and racked into cold storage as soon as it is graded. Certain varieties must be handled with extra care, such as packing roots with damp shredded paper to hold moisture. Other varieties require a much dryer environment and are racked where they will get plenty of air circulation and receive little to no hand watering. Some specialty ornamentals are very fragile and need to be

handled with extreme care to avoid breakage. Every two weeks the coolers are fumigated to prevent molds or diseases. Temperatures are maintained at 36° and humidity is kept at 98%. This sophisticated humidification and cooling system makes us independent of weather changes in our area and allows our customers to receive their plant material when they are ready, even if that means the last week of May.

STARCH TESTING:

In 1987, we began starch testing our plants before harvesting to determine the amount of sugar-starch content in the root systems' cambium layers. By doing this, we can see whether or not a particular variety is dormant enough to be lifted. Visual defoliation has been

the standard industry method for determining dormancy. However, in many cultivars visual defoliation can be deceiving and though they appear dormant, they may not be ready to dig. Harvesting too early can damage the plants or reduce transplant success.

At Carlton, starch testing has become an integral part of our evaluation program to determine proper harvest time. To test, we remove a root cross section, apply iodine solution, and observe the stained section under a microscope. Here, we can view the stored carbohydrates collected in the phloem, phloem rays and pith, and thus determine proper dormancy.

Over the years, our customers have seen increased performance as a direct result of our starch testing. We know it makes a difference.



FLOWERING CRABAPPLE FEATURED TREE

A crabapple in bloom is a thing of beauty, a reminder of the renewal of spring. In April and May tiny pearl like blossoms open to cover the tree with color and fragrance and then artfully transform a lawn into a colorful carpet of petals. Blooms are white or many shades of pink or red. There are single or double blossoms, some resemble a rose.

The fruit can be quite decorative, from lime green to yellow and orange to red. While the blossoms last a few weeks, the ornamental fruit can linger sometimes for months.

Through decades of breeding, modern varieties of flowering crabs have almost universally had the undesirable traits bred out of them and the lush displays of blooms, foliage and fruit enhanced.

Flowering Crabapples are small enough that they don't dominate a yard or grow into power lines. Several forms are available including weeping varieties, top grafted or upright, columnar or multi-stem. Depending on the space, one of the varieties of this versatile little tree can fit nicely into any yard or landscape.





NEW VARIETIES FOR 2014-2015

TREES:

Acer truncatum Main Street® ~16
Carpinus caroliniana Firespire™ ~ 20
Cercis canadensis 'Appalachian Red' ~ 21
Cercis canadensis 'Pink Heartbreaker' ~ 21
Gleditsia triacanthos Street Keeper® ~ 25
Halesia carolina 'Jersey Belle' ~ 25
Malus Emerald Spire® ~ 29
Malus Starlite® ~ 32
Quercus palustris Green Pillar® ~41
Styrax obassia Fragrant Snowbell ~43
Ulmus americana 'Jefferson' ~ 46

SMALL FRUITS:

Blueberry:
'Jersey' ~ 53
'Pink Lemonade' ~ 53
'Sunshine Blue' ~ 53

SHRUBS:

Berberis thunbergii Golden Ruby™ ~ 56
Buddleia Flutterby Grande® Peach Cobbler ~ 56
Buddleia Flutterby Grande® Vanilla ~ 56
Cercis canadensis 'Appalachian Red' ~57
Hamamelis vernalis Autumn Embers™ ~ 60

Hydrangea macrophylla Next Generation Pistachio ~ 62
Hydrangea macrophylla Star Gazer ~62
Hydrangea paniculata Sweet Summer ~62
Hypericum kalmianum 'Blue Velvet' ~64
Sambucus Black Tower ~ 70

ROOTSTOCKS AND SEEDLINGS:

M9-337 ~87

RECENT ADDITIONS:

TREES:

Betula platyphylla Dakota Pinnacle® ~ 19
Cercis canadensis The Rising Sun™ ~ 21
Corylus avellana x Rosita ~ 22
Gymnocladus dioicus Espresso™ ~ 25
Hydrangea paniculata Phantom ~ 26

Malus April Showers™ ~ 33
Populus tremuloides ~ 36
Pyrus calleryana Jack® ~ 39
Taxodium ascendens Debonair® ~ 44

SHRUBS:

Berberis thunbergii Concorde ~ 56
Callicarpa dichotoma Duet ~ 57
Cercis canadensis The Rising Sun™ ~ 57
Euonymus alatus Little Moses™ ~ 60

Hibiscus syriacus Blue Angel™ ~ 61
Prunus besseyi Pawnee Buttes® ~ 66
Rhus capallina Prairie Flame™ ~ 67





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TO OUR VALUED CUSTOMERS -THANK YOU!

All of us at Carlton Plants extend our appreciation and gratitude to you, our customers, for your continuing business. The fact that you choose Carlton Plants as a supplier means everything to us. Our resolve and dedication to supplying you with the highest level of

consistent quality and service remains as strong as always. Exceeding your expectations and providing real value are our goals. We wish you success in the months ahead and we look forward to working with you again to supply your needs for the upcoming season.



A LONG TRADITION OF CARE AND METICULOUS ATTENTION SHOWS IN EVERY PLANT WE TAKE TO MARKET

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The quality of our products is a direct reflection on the people that make up Carlton Plants. For more than 100 years their commitment to consistent quality and product performance has remained unchanged. Our full-time staff of 250 people average more than ten years of service with Carlton, supplying more than 2,250 years of combined experience to our company and customers.

Opportunities for advancement in knowledge and skill in our industry are ongoing. Expanding our horticultural expertise has always been an important focus at Carlton. In addition, we share that wealth through an internship program with domestic and international students. Equally important, we share the values and relationships we have gained along the way.

*WE ARE COMMITTED TO YOU...
BECAUSE YOUR FUTURE IS OUR FUTURE.*



TERMS OF BUSINESS

FALL 2014 ~ SPRING 2015

ORDERS: Carlton's prices are based on current market conditions and are subject to change without notice. All prices are in US funds. All cancellations must be received in writing before December 1. We appreciate all cancels on orders as soon as possible as this allows us the opportunity to supply cancelled items to others possibly requesting them. We ask that after receiving your order acknowledgement, you review it immediately so that any necessary changes on your order can be made at that time. Minimums apply for all shipping regions. Contact the sales representative in your area regarding minimum orders. Accounts from previous season must be paid in full before orders for future delivery can be booked. Trees greater than 4'br and larger caliper sizes can be ordered in quantities of 5. Shrubs must be ordered in quantities of 10. All orders are subject to cancellation if stock is injured by flood, drought, fire, frost, hail, errors in the count or any other cause beyond our control.

TERMS: All prices are F.O.B. Dayton, Oregon. Box and baling at cost. We offer terms of 2% discount 10 days from invoice date, net 30 days. References are required from unknown parties. Non-established credit customers must prepay 25% of their order by December 1 or upon receipt of acknowledgement before spring shipment. We will retain the 25% deposit on any orders not accepted as contracted. Service charge on all past due accounts is 1.5% per month (18% annually), unless other arrangements were made at the time of order. We accept VISA, MasterCard, Discover and American Express. We truly appreciate our customers and will do our best to fill orders for all items. However, when demand exceeds supply on any items, those items will be allocated first to customers who pay their invoices within terms.

REPORTS ON CLAIMS: We appreciate reports on shipments as soon as they are received. Claims regarding incorrect counts or breakages will be considered if made within 10 days after stock has been delivered/accepted. All other claims must be received by July 15, following the date of delivery. We will not be liable for any sum greater than the amount originally received for the order.

SHIPPING INFORMATION: Depending on the weather, we generally begin shipping the first part of February and continue into May and June. Deliveries must be scheduled with our sales and shipping department. We ship to destinations throughout the United States, Canada and foreign countries.

DOCK HOURS

7:30 AM - 12:00 PM, 12:30 PM - 4:00 PM

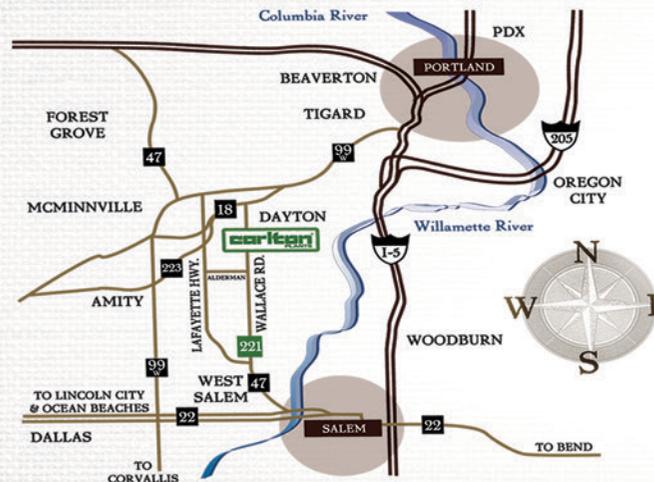
MONDAY THRU FRIDAY

Saturday pick-ups only by special arrangement.

CUSTOMER PICK-UP ORDERS: We ask you to pre-arrange your pick-up date a week in advance. It is important to be aware of your load size and to arrive equipped with a covered vehicle or with tarps. Exposed plants will dry out very quickly. Dock hours are the same as above.

LOCAL DELIVERY: We deliver to most parts of Oregon, Washington, northern California and British Columbia, Canada. Shipping dates must be coordinated with your salesperson along with any other special requirements.

DIRECTIONS: DETAILED WRITTEN DIRECTIONS, ALONG WITH AN EASY-TO-FOLLOW MAP ARE AVAILABLE ON OUR WEBSITE WWW.CARLTONPLANTS.COM



THIS IS A WHOLESALE LIST INTENDED ONLY FOR THOSE ENGAGED IN BUYING AND SELLING NURSERY PRODUCTS.



VOLUME REBATE SCHEDULE



GET DISCOUNT REWARDS ON YOUR PURCHASE WITH CARLTON PLANTS' VOLUME REBATE PROGRAM

The percent of rebate (based on established catalog prices less royalties), will be based on the total eligible dollar value of stock invoiced during that season. A rebate check for the earned rebate will be issued after all accounts are paid in full. Any accounts not paid in full by August 25 will forfeit all rights to a volume rebate.

Prepaid freight, royalty and patent charges, boxing and packing charges, fumigation charges, credit memorandums, all discounts and all specially priced orders or specific items not eligible for a volume rebate are excluded from the total purchase amount. All rebates will be based on the discount schedule listed here.

TOTAL PURCHASE	REBATE
\$0 — \$4,000	0%
\$4,000 — \$8,000	3%
\$8,000 — \$12,000	5%
\$12,000 — \$16,000	7%
\$16,000 — \$24,000	10%
\$24,000 — \$32,000	13%
\$32,000 — \$48,000	15%
\$48,000 — \$80,000	18%
\$80,000 — \$120,000	20%
\$120,000 — \$160,000	22%
\$160,000 — \$240,000	23%
\$240,000 — & UP	25%

CARLTON PROMOTIONAL TAGS

We offer full-color promotional tags for nearly everything we're currently growing. Our picture tag front shows a photo of the variety. The back features a plant description, cold hardiness rating, planting instructions and pricing space.

We also offer a **SPROUTFREE**® sales tag. This tag is designed to provide easily read information describing the benefits of Malus varieties grown on this sucker resistant rootstock. (SEE PAGE 28)

CALL FOR MORE DETAILS & FEES FOR THESE TAGS



CARLTON ROYALTY FEES: ALL ROYALTY FEES ON REGISTERED, PATENTED AND TRADEMARKED PLANTS ARE INCLUDED IN THE UNIT PRICE AS LISTED IN THE CATALOG.

TREES

Carlton Plants offers a wide selection of whips, branched trees and a broad line of specialty ornamentals. To accommodate a need for smaller yards or landscapes we have added many listings to our catalog, including dwarfs such as crabapples and lilacs grafted on standards ranging from 3' to 4'. We also offer a selection of trees with unusual bark and unique upright or weeping forms. We have spent years refining our undercutting program and now offer more than 100 of

these varieties. Our experience has shown that "undercutting" is a proven method for higher transplanting success. Popular species such as Crataegus, Celtis, Carpinus and Cercis not only transplant better after undercutting, but perform better as well. Whether your requirements be for large shade and flowering trees, or for small unique plants for those special spaces, Carlton Plants can supply top quality products to meet your needs.





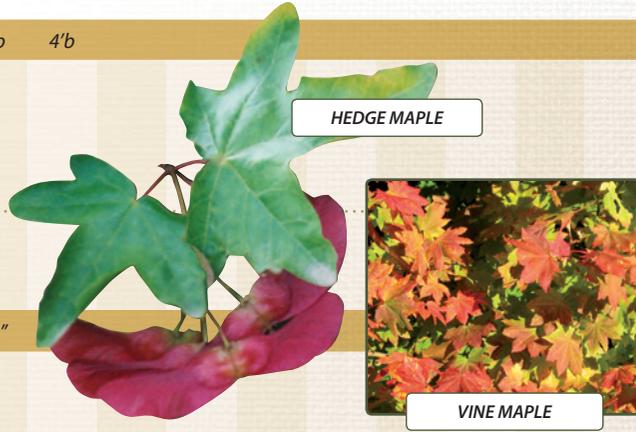
BRANCHED, LIGHT BRANCHED OR WHIP TREES

Branched (b) trees are used by operations (garden centers, landscapers and rewholesalers) that require a finished tree for their clients. A number of growers, both field and container, also favor branched trees due to the length of their production cycle. Some growers prefer that the head or tree structure has already been made for them.

Many growers like the advantages of a **light branched (lt.b)** tree. Not as much pruning is required prior to planting. Freight costs can be lower than branched trees and the unit price is less too.

Whip (w) trees are used primarily by growers. They may prefer a smaller tree to use as a liner due to climatic conditions. Some like to custom make the heads on their trees to better fit the needs of the market area they are servicing. Again, freight costs are less. The unit price is considerably lower than a branched or light branched tree.

	1 1/4'b	1'b	6'b	5'b	4'b													
<i>Acer campestre</i> Hedge Maple																		
<i>Hedge Maple</i> ZONE 4-8 Ht. & Spread 25-30' Globular form. Small dark green leaves. Yellow fall color. Performs well in dry, alkaline and acid type soil. Good salt tolerance rating. Low height and slow growth make excellent residential use under utility lines. A recommended street tree. Tolerates air pollution. Attractive corky bark in winter. Sun to partial shade.																		
<i>Queen Elizabeth™ cv. 'Evelyn'</i> ZONE 5-8 Ht. 35' Spread 30' Upright branching oval form. Dark green foliage, yellow fall color. Attractive corky bark. Resistant to Japanese beetle. A recommended street tree.																		
<i>Acer circinatum</i> Multi-Stem Vine Maple																		
<i>Vine Maple</i> ZONE 5 Ht. 15-20' Spread 12-15' Multi-stemmed, open form. Winged red samaras in late spring. Mixture of orange, scarlet and yellow fall colors is early and lengthy. Oregon native.																		
<i>Acer x freemanii</i> Freeman Maple																		
<i>Armstrong</i> ZONE 3-7 Ht. 50-60' Spread 20-25' Dense, narrow form with upright ascending branches. Fast growing. A good street tree or building accent. Yellow-orange fall color. Silver gray bark.																		
<i>Autumn Blaze® cv. 'Jeffersred'</i> ZONE 3-7 Ht. 40-50' Spread 40' Upright oval form. This silver-red cross grows in higher alkaline soils than rubrums will. It has all the vigor of a silver maple with a slightly smaller leaf, but not the narrow branch angles that cause wind breakage. Its brilliant orange-red fall color is borrowed from the rubrum parent, ranking this cultivar one of the best.																		
<i>Celebration® cv. 'Celzam'</i> ZONE 4-7 Ht. 35-45' Spread 30-40' Upright, uniform habit with Armstrong crotch angles. Outstanding compact tree. Will tolerate higher pH soils than Autumn Blaze. Red fall color turns gold. Seedless. Lake County Nursery 'ZAM' introduction.																		
<i>Marmo</i> ZONE 3-7 Ht. 60-70' Spread 35-40' Broad, columnar form. More vigorous than Autumn Blaze®. Selected for good growth rate, a strong central leader, upright habit and variable yellow to red fall color. Deeply lobed leaves. Good alternative to <i>Acer saccharinum</i> . Chicagoland Grows® introduction.																		



'b' represents branched, 'lt.b' represents light branched, 'w' represents whips, '*' represents 1 year top

Acer platanoides continued from previous page...

1 1/4"b 1"b 6'b 5'b 1"lt.b 6'lt.b 5'lt.b

Royal Red ZONE 4-7 Ht. 30-40' Spread 30' Similar to Crimson King but thought to be slightly hardier and somewhat slower growing. Dark maroon foliage retains color throughout the growing season. Smaller than other Norways. Full sun.

Silver Variegated (Drummondii) ZONE 4-7 Ht. 35-40' Spread 30' Broad, oval form. Leaves are light-green with white edges. Slow growing. Prune for a rounded outline and to prevent reversions.

Acer rubrum Red Maple

1 1/4"b 1"b 6'b 5'b 6'b* 5'b* 4'b* 5'lt.b* 4'lt.b* 5'w 4'w 3'w

Autumn Flame ZONE 3-7 Ht. 40-50' Spread 40' Dense rounded form. Small leaves are a unique feature of this cultivar. Dependable early red fall color. Branches readily as a juvenile tree. Very hardy. Male selection. McGill & Son Nursery introduction.

Autumn Radiance® ZONE 4-7 Ht. 30-60' Spread 40' Open rounded form. Best of its October Glory® and Red Sunset® parents with consistent red coloring throughout the tree two weeks earlier in fall than other rubrums. Lower branching structure is equally as strong as terminal, causing a more balanced rounded head. A Carlton Plants selection.

Autumn Spire Zone 3-6 Ht. 50' Spread 25-30' Broadly columnar form. Consistently beautiful red fall color. A University of Minnesota introduction.

'Bowhall' ZONE 3 Ht. 40-50' Spread 15-20' Upright, pyramidal form. Green foliage. Scarlet-red fall color. One of the best pyramidal cultivars.

Burgundy Belle® cv. **'Magnificent Magenta'** ZONE 4-8 Height & Spread 45' Dense medium dark green foliage and oval-shaped head. Red fall color turning to burgundy later in the season. Excellent heat and drought tolerance. Ideal for a street tree or in the landscape. Heritage® Trees, Inc. selection.

Karpick® ZONE 3-7 Ht. 35-40' Spread 15-20' Dense narrow form becomes oval with age. Mature width 15-20'. Named for Frank Karpick, Buffalo, N.Y. City Forester. Excellent street tree. Distinct red twigs and green foliage. Yellow to red fall color. Excellent form for maintained areas. Male selection.

October Glory® ZONE 4-8 Ht. 50-60' Spread 40' Dense, rounded form. Medium green, glossy foliage turns brilliant red in fall. Colors change with weather conditions. Holds leaves late for extended color. A favorite rubrum cultivar due to fall color display. Female selection. Princeton Nursery introduction, 1961.

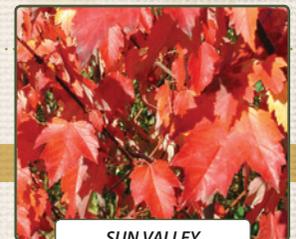
Red Sunset® cv. **'Franksred'** ZONE 4-7 Ht. 40-50' Spread 35-40' Brilliant orange-red fall colors. Rapid growing, upright-spreading in youth, developing to a rounded outline at maturity. Female selection.

Sun Valley ZONE 4 Ht. 40' Spread 35' Uniform, dense oval head. Dark green foliage turning bright red fairly late in the season.

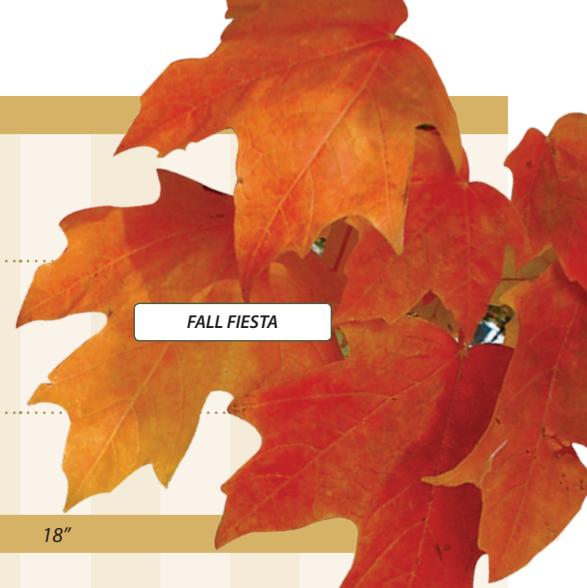
Acer saccharinum Silver Maple

1"b 6'b 5'b 4'b 5'lt.b

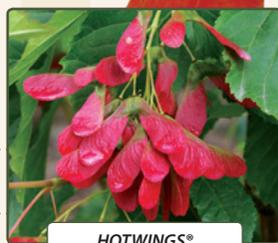
Silver Queen ZONE 3-7 Ht. 50' Spread 40' Seedless and fast growing. Foliage is a richer green with similar silver undersides. More upright than its parent. This selection has better form and is less brittle. Grown from softwood cuttings. Straight central leader.



<i>Acer saccharum</i> Sugar Maple	1 1/4"b	1"b	6'b	5'b				
<i>Commemoration</i> ® ZONE 4 Ht. 40-50' Spread 35' Oval rounded. Spreading crown with dense vigorous growth. Resists leaf tatter. Colors two weeks earlier than seedlings. Simultaneous coloring includes pinks, reds and oranges. Discov-Tree introduction.								
<i>Fall Fiesta</i> ® cv. 'Bailsta' (P.P. 11119) ZONE 4 Ht. 50-60' Spread 40' Upright, rounded form. A fast growing sugar selection with thick, leathery dark green leaves. Foliage is resistant to leaf tatter and leaf hopper damage. Resistant to frost cracking and sun scald. Intense yellow and orange-red colors. Bailey Nursery introduction.								
<i>Green Mountain</i> ® ZONE 3 Ht. 50' Spread 40' Broad oval form. Fast growing and vigorous. Waxy dark green foliage with good scorch resistance. Fall color ranges from yellow-orange to orange-red.								
<i>Acer tataricum</i> Tatarian Maple	1"b	6'b	5'b	4'	3'	2'	18"	
<i>Hotwings</i> ® cv. 'GarAnn' (P.P. 15023) ZONE 3 Ht. 25' Spread 20' A chance seedling selected from Ft. Collins Wholesale Nursery's growing fields. A superior selection of A. tataricum. Consistent scarlet-red samaras appear in the summer. Fall leaf color changes from orange-red on the outside of the plant to yellow in the middle of the plant. Strong branch unions make it less prone to storm breakage than the species. Tolerates a wide range of soils. Full sun. Plant Select® introduction.								
<i>Hotwings</i> ® cv. 'GarAnn' (P.P. 15023) ZONE 3 Ht. 25' Spread 20' MULTI-STEM FORM								
<i>Pattern Perfect</i> ™ 'Patdell' ZONE 3-8 Ht. 20' Spread 15-20' Colorful red stems. Thick green leaves and consistent red-orange fall color make this a very useful tree for the yard. Persistent samaras occurring in June are a brilliant red. Moderate growth rate. Resistant to tar spot fungus. Handsome small tree, good for residential landscapes. A Discov-Tree cultivar.								
<i>Acer truncatum</i> Shantung Maple	1 1/4"b	1"b	6'b	5'b				
<i>Main Street</i> ® 'WF-AT1' (P.P. 20109) ZONE 5-8 (9) Ht. 20-30' Spread 15-25' Small tree suitable for urban use. Brilliant flaming orange-red fall color. Extremely drought tolerant.								
<i>Pacific Sunset</i> ® cv. 'Warrenred' ZONE 4-7 Ht. 30' Spread 20-30' Upright, rounded form. Dark green glossy leaves with early fall color of yellow-orange to bright red. Hybrid between platanoides and truncatum. 1989 J. Frank Schmidt Nursery introduction.								
<i>Aesculus x hybrid</i>	Hvy	6'b	5'b	4'b	6'w	5'w	4'w	3'w
<i>x arnoldiana</i> 'Autumn Splendor' ZONE 4 Ht. 35' Spread 25-30' Flowers are yellow-red 6" spikes at the ends of branches. Dark green, shiny leaves appear to be scorch resistant and turn vivid maroon-red in fall. Prefers moist fertile soils. No serious pest problems. Very attractive ornamental hybrid. Has fruits. Hybrid of glabra x (flava x pavia). A University of Minnesota Landscape Arboretum introduction.								
<i>x carnea</i> 'Briotii' (Briotii Red Horsechestnut) ZONE 4-7 Ht. 40-50' Spread 30' Broad, rounded dense shade tree. Dark, rosy-red 10" flower panicles bloom late spring to early summer. Prefers deep well drained soils but considered widely adaptable to soil types. Leaf serrulate, dark green with red mid-rib. Has fruits. Originated in 1858 from seed grown at Trianon, France.								



FALL FIESTA



HOTWINGS®



AUTUMN SPLENDOR



Aesculus x hybrid continued on next page...

Aesculus x hybrid continued from previous page...

Hvy 6'b 5'b 4'b 6'w 5'w 4'w 3'w

x carnea 'Ft. McNair' (Ft. McNair Red Horsechestnut) ZONE 3-7 Ht. 40-50' Spread 30' Rounded, dense crown at maturity. Upright dark pink 6-8" panicles. Consistent bloomer in late spring. Foliage remains dark green until dropping. Resistant to leaf blotch fungus. Reddish brown fruit. A selection from Ft. McNair in Washington, D.C.

x 'Homestead' ZONE 4-7 Ht. 35' Spread 25' Moderate growth rate. Rounded to broad form, low branches. Yellow to orange fall color. Panicles of yellowish-red flowers. Sun to partial shade. Moist, well-drained soil. Dislikes dry soil. Sterile flowers.

Aesculus hippocastanum

Hvy 6'b 5'b 4'b 6'w 5'w 4'w

Baumannii (Double Horsechestnut) ZONE 3-7 Ht. 60' Spread 40' Tall oval form. Double white flowers with pink flecks. The fruitless panicles are 9" in length, bloom later and are longer lasting than the species. Discovered as a sport in 1822, Geneva, Switzerland. Very attractive tree.

-UNDERCUT-

Aesculus Buckeye

4' 3' 2' 18" 12"

parviflora (Bottlebrush Buckeye) ZONE 4-8 Height & Spread 8-12' White 12" bottlebrush shaped flower panicles in mid-summer are fragrant and showy. Blooms on old wood. Fall leaf color is lemon-yellow. Often suckers once established. Prefers acidic, well drained, moist soil but adapts easily. Disease resistant. Rarely fruits. Attracts butterflies. Native to Ohio. Prefers sun to partial shade.

MULTI-STEM FORM

pavia (Red Buckeye) ZONE 5-9 Height & Spread 10-20' Clump-like native, rounded shrub or small tree. Striking red 6" flower panicles appear in May. Attracts butterflies. Inedible brown nut capsules appear in July. Prefers well drained soil. Heat tolerant, palmate dark green leaves. Full sun to partial shade.

MULTI-STEM FORM

Aesculus octandra Yellow Buckeye

Hvy 6'b 5'b 4'b 6'w 5'w 4'w 3'w

Yellow Buckeye ZONE 4-8 Ht. 60' Spread 40' Interesting yellow flower spikes appear in late May. Dark yellow-green leaves turn to orange in fall. Oval form. Native to central and Southeastern U.S. Smooth glossy brown nuts. Prefers moist well drained soil but tolerates dry conditions and pollution.

Alnus spaethii

1"b 6'b 5'b 4'b

Spaeth's Alder ZONE 3 Ht. 40-65' Spread 15-20' Spaethii is a rapid growing tree for streets, parks or landscapes. A nice alternative to *Fraxinus pennsylvanica*. Large leaves are serrated, coppery-purple in the spring and lustrous green in summer. Likes normal to moist soil but can tolerate dry conditions when established and will grow well in poor soils due to its nitrogen fixing ability. It is wind, salt and pollution tolerant. Widely used in Europe.

Amelanchier canadensis Shadblow Serviceberry

1"b 6'b 5'b 4'b

Rainbow Pillar® cv 'Glennform' ZONE 4 Ht. 20' Spread 8-10' Dense upright form, green mildew resistant foliage. Small white flowers. In the autumn foliage turns a brilliant red, orange and yellow, giving the tree the appearance of a rainbow, hence the name. Excellent for hedging or screen planting. **SHRUB FORM AVAILABLE PG. 55**

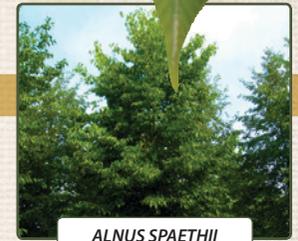
Amelanchier laevis Allegheny Serviceberry

1"b 7'b 6'b 5'b 4'b

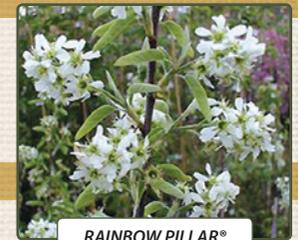
Cumulus® (hybrida) ZONE 4-8 Ht. 20-30' Spread 15' Upright and open form. White blooms in spring. Orange-red fall color. Minimal suckering makes it a suitable street tree. Treesearch introduction.



YELLOW BUCKEYE



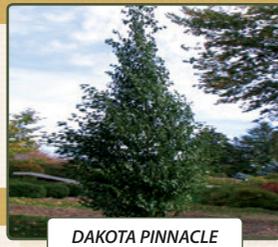
ALNUS SPAETHII



RAINBOW PILLAR®

Amelanchier continued on next page...

<i>Betula platyphylla</i>	1"b	6'b	5'b	4'b	3'b								
<i>Dakota Pinnacle</i> ® cv. 'Fargo' ZONE 3 Ht. 35-40' Spread 15' A deciduous tree with a columnar to narrowly pyramidal growth habit. Dark green foliage is retained into late fall, then turns to a nice yellow. Bark is yellow-white, slightly exfoliating. Grows in sun or light shade. Tolerates heat and drought. Known to be resistant to Japanese beetle. Developed and introduced by North Dakota State University.													
<i>Betula populifolia</i> Gray Birch	6'	5'	4'	3'	2'								
<i>Whitespire Birch</i> ZONE 3-7 Ht. 30-35' Spread 15-20' Narrow pyramidal form. Chalk white bark. Glossy dark green leaves turn yellow in fall. Salt tolerant. Does well in poor soils. Tolerant of high temperatures. Birch borer resistant and has better resistance to leafminers than <i>Betula papyrifera</i> . Selected at University of Wisconsin. Good in naturalized settings. Full sun. SINGLES FOR CLUMPING													
<i>Betula x hybrid</i>	9'b	8'b	7'b	6'b	5'b	4'b	3'b	3'	2'	18"	12"		
<i>Royal Frost</i> ® ZONE 4 Ht. 30-40' Spread 15-20' Attractive all season burgundy-red foliage contrasts nicely with the creamy white exfoliating bark. Grown in a sunny location, it can also tolerate moist, heavy soils. Much faster growing with a stronger and straighter trunk than <i>Crimson Frost</i> . Evergreen Nursery introduction. SINGLES FOR CLUMPING													
<i>Caragana arborescens</i> Siberian Peashrub	6'b	5'b	4'b	3'b									
<i>Sutherland</i> ZONE 2-7 Ht. 15-20' Spread 8-12' An upright form that is quite unique and excellent for screening. Bright yellow ½" to 1" long flowers from early to mid-May on previous years' wood. Yellow/green fall color.													
<i>Weeping Siberian Peashrub (Pendula)</i> ZONE 2-7 Ht. 8-10' Spread 6-8' Extremely cold hardy interesting ornamental. Top grafted weeper. Light green leaves. Bright yellow flowers early to mid-May on previous years' wood. Adapts to containers and small spaces. Tolerates dry alkaline soils.								3 1/2' STANDARD	HvySel	Hvy	#1		
<i>Weeping Walkeri Peashrub</i> ZONE 2-7 Ht. 8-10' Spread 6-8' Top grafted pendulous weeper. Foliage is very fine and deeply cut giving it a ferny appearance. Light green in color. Abundant yellow pea-like flowers. As a group, <i>Caragana</i> display good dry soil tolerance.													
<i>Carpinus betulus</i> European Hornbeam	1 1/4"b	1"b	6'b	5'b	4'b	1"b*	6'b*	5'b*	4'b*				
<i>European Hornbeam</i> ZONE 5-7 Ht. 30-40' Spread 20' Young pyramidal form, rounded with age. Dense foliage prunes well and can fit all locations. Yellow fall color. Prefers deep moist, acidic soil, but is tolerant of most soil conditions. Tolerates Midwest environment. Insect and disease resistant. -UNDERCUT-													
<i>Fastigiata</i> ZONE 5-7 Ht. 30-40' Spread 15-20' Formal branching habit. Columnar and dense when young, becoming pyramidal with age. Effective screen or street tree. Yellow fall color. -UNDERCUT-													
<i>Frans Fontaine</i> ZONE 5-7 Ht. 30' Spread 10' European selection that is more columnar than the other varieties. Does not tend to broaden at the base with age. Good for narrow areas and screening. -UNDERCUT-													



DAKOTA PINNACLE

OUR CATALOG AND AVAILABILITY IS ON OUR WEBSITE. IF YOU WISH TO VIEW OUR CATALOG WITH PRICES TYPE IN THE PASSWORD: bareroot



Carpinus continued on next page...

'b' represents branched, 'lt.b' represents light branched, 'w' represents whips, '*' represents 1 year top

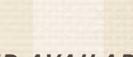
QUALITY, PERFORMANCE, VALUE AND CONSISTENCY. IT'S IN THE DETAILS....

<i>Carpinus betulus</i> European Hornbeam continued from previous page...	Hvy Sel	Hvy	#1	#1 lt	#2					
<i>Pendula</i> Hornbeam ZONE 4 Ht. 8-10' Spread 15' A pendulous form of European hornbeam with a formal growth habit. Good for low clearance and small spaces. Available as 5' standard.	-UNDERCUT-									
<i>Carpinus caroliniana</i> American Hornbeam	1'b	6'b	5'b	4'b	3'b					
<i>American Hornbeam</i> ZONE 3-9 Ht. 25-30' Spread 20' Dense, rounded form with smooth sinuous bluish-gray bark. Slow grower. Branches are spreading and arching at the tips. Yellow-orange fall color. An excellent tree for small areas.	-UNDERCUT-									
<i>Firespire™</i> 'J.N. Upright' ZONE 3 Ht. 20' Spread 10' An upright form with outstanding orange-red fall color. A very good screening plant because of its slender form and tolerance for both sun and shade. This nice native selection found in Wisconsin by Mike Yanny is useful for small spaces and urban gardens. Will tolerate dry spells.	-UNDERCUT-									
<i>Catalpa</i>	9'w	8'w	7'w	6'w	5'w	4'w	3'w			
<i>bignonioides 'Aurea'</i> (Golden Catalpa) ZONE 4-9 Height & Spread 25' Dense globe shape. Unique medium sized tree which adds a bold color accent. Large 4" velvety soft bright yellow leaves have a lime green tint by late summer. White fragrant tubular 2" flowers borne in 8" panicles appear in July and attract honeybees. Suitable for all types of well drained soils. Prefers full sun.										
<i>speciosa</i> (Northern Catalpa) ZONE 4-7 Ht. 50-60' Spread 35-40' Upright fast growing tree. Large heart-shaped green foliage. Tube-like white flowers appear in 4-8" panicles. Long pencil-like pod fruits. Best grown in large areas.										
<i>x erubescens 'Purpurea'</i> (Purple Catalpa) ZONE 5 Height & Spread 30' New growth is purple-black in color. The large leaves are very intriguing, fading to dark green with a purple hue as summer progresses. Abundant, showy white flowers appear in late summer.										
<i>Celtis occidentalis</i> Common Hackberry	1 1/4'b	1'b	6'b	5'b	6'b*	5'b*	4'b*	6'w*	5'w*	4'w*
<i>Hackberry</i> ZONE 2-7 Ht. 30-40' Spread 30' Rounded, open form. Moderate to rapid grower. Elm-like foliage, leaves 2-6" long. Distinct, warty, gray bark. Very hardy. Tolerates dry, alkaline soils and windy conditions. Red berries attract birds.	-UNDERCUT-									
<i>Chicagoland®</i> ZONE 3-7 Ht. 45' Spread 30-35' Rounded open form. A stronger grower than the species with clean large green foliage. A Roy Klehm selection.	-UNDERCUT-									
<i>Cercidiphyllum japonicum</i> Katsura Tree	1 1/2'b	1 1/4'b	1'b	6'b	5'b	4'b				
<i>Katsura</i> ZONE 4-8 Ht. 40-50' Spread 30' Pyramidal in youth, full and dense even as a young tree. Heart shaped blue-green leaves. Yellow-orange fall color brings a cinnamon-brown sugar scent. A slow growing trouble free tree. No serious disease or pest problems. Prefers rich, moist, slightly acid soils.										
<i>Weeping Katsura Tree (Pendula)</i> ZONE 4-8 Ht. 15-25' Spread 20' Weeping form of species. Tree forms mounds of graceful weeping branches. Resembles a blue-green waterfall in summer. Cascading yellow-orange in fall.	5'STANDARD	Hvy	#1	#1 lt	#2					



GOLDEN CATALPA

3'B AND SMALLER AND 4' WHIPS AND SMALLER, ORDER IN MULTIPLES OF 10.
4'B AND LARGER & ALL FRUIT TREES CAN BE ORDERED IN MULTIPLES OF 5.

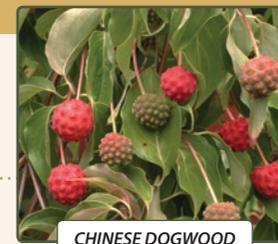
<i>Cercis canadensis</i> Eastern Redbud	HARDY NORTHERN STRAIN					1 1/4'b	1'b	6'b	5'b	4'b	
<i>'Appalachian Red'</i> ZONE 4-9 Height & Spread 15-25' Tiny, fuchsia-pink to red pea like spring flowers bloom for 2-3 weeks. Attractive heart shaped leaves make this an excellent addition to the landscape as a specimen or in a small group. Low maintenance. Prefers full sun or partial shade in hot locations. Tolerates clay soil and deer. GRAFTED MULTI-STEM FORM AVAILABLE PG. 57						-UNDERCUT-	 LIMITED AVAILABILITY				
<i>Eastern Redbud</i> ZONE 4-9 Ht. 20-30' Spread 20-25' Small, irregular tree with ascending branches and open form. Reddish-purple buds open to purple-pink blooms. One of the earliest bloomers. Flowers often produced on old trunks. Seed pods are 3" long and flat. Heart shaped leaves. Yellow fall color. Suitable for naturalized plantings. Adapts to acidic or alkaline soils. Full sun to partial shade. SHRUB FORM AVAILABLE PG.57						-UNDERCUT-					
<i>'Forest Pansy'</i> ZONE 5-9 Ht. 20-30' Spread 15-25' Upright spreading form. New foliage is a deep purple fading to a more subdued color as the season progresses. Purple-pink flowers appear before leaves emerge. Darker than the species. GRAFTED MULTI-STEM FORM AVAILABLE PG. 57						-UNDERCUT-					
<i>Lavender Twist™ cv. 'Covey'</i> (P.P. 10328) ZONE 5 Ht. 5-8' Spread 8-12' A redbud that has a spectacular, vigorous cascading habit with small bright pinkish-purple flowers followed by glossy heart shaped green leaves. The first true known weeping canadensis.						Hvy	#1	#1 lt	#2		
<i>'Pink Heartbreaker'</i> ZONE 4-8 Ht. 10-15' Spread 8-10' A very nice weeping form redbud. Branching is strong with a tight, narrow form. Lavender-pink profuse flowers bloom in early spring before the foliage appears. Leaves are red when they emerge, turning to green as they mature. Low maintenance. Grow in full sun to partial shade.						-UNDERCUT-	 LIMITED AVAILABILITY				
<i>'Royal White'</i> Zone 4 Ht. 20-30' Spread 20-25' A selection made by professor J.C. McDaniel of the University of Illinois. Selected for its outstanding and abundant flowers which are larger than 'Alba'. An excellent cold hardy form. GRAFTED MULTI-STEM FORM AVAILABLE PG. 57						-UNDERCUT-	 LIMITED AVAILABILITY				
<i>The Rising Sun™ cv. 'JN2'</i> ZONE 5-8 Ht. 12-17' Spread 20' Used as a native ornamental shrub in the landscape. Exhibits an early springtime bloom of magenta flowers clustered up and down the branches, which gives way to bright rosy apricot colored new growth foliage, then turns into a golden-tangerine color. Foliage is heart-shaped and extends into fall. Has tan bark with a yellowish cast distinctive from other redbuds. Needs full sun. Wide tolerance of soil moisture. Its drought and heat resistance prevents leaves from burning. Introduced by Jackson Nursery. GRAFTED MULTI-STEM FORM AVAILABLE PG. 57						-UNDERCUT-	 LIMITED AVAILABILITY				
<i>Cladrastis kentukea</i> Yellowwood	1 1/4'b 1'b 6'b 5'b 4'b 7'w 6'w 5'w 4'w										
<i>American Yellowwood</i> ZONE 3-8 Ht. 30-35' Spread 20' Broad rounded head. Graceful, medium sized tree. Clusters of white, fragrant flower panicles in May-June. Large pinnate leaves. Brilliant yellow fall color. Tolerates high pH as well as acidic situations. Excellent as a specimen. Sun to shady conditions.											
<i>'Perkins Pink' (Pink Flowering Yellowwood)</i> ZONE 4 Ht. 30-35' Spread 20' Similar habits as the species but with pink blooms. The fragrant, long drooping wisteria-like panicles appear in early June. Smooth gray bark. Yellow fall color. Prefers well drained soils.											
<i>Cornus alba</i> Variegated European Dogwood	- TREE FORM -				1'b 6'b 5'b 4'b						
<i>alba 'Argenteo-marginata'</i> ZONE 3-7 Ht. 6-10' Spread 5-8' Normally grown as a shrub, this small tree with upright growth has bright red branches. Making an attractive winter effect. Full sun preferred. SHRUB FORM AVAILABLE PG. 58	-UNDERCUT-										



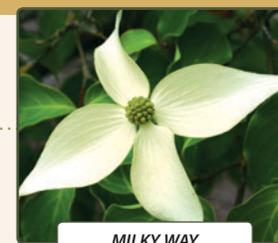
LAVENDER TWIST™



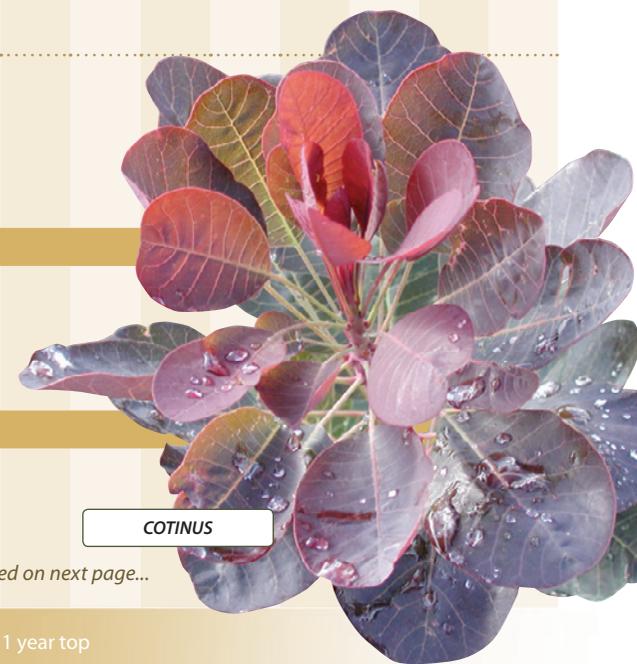
<i>Cornus kousa</i> Kousa Dogwood	1'b	6'b	5'b	4'b	3'b	2'b
<p><i>Chinensis</i> (<i>Chinese Dogwood</i>) ZONE 5-8 Ht. 15-20' Spread 10-15' Upright form with horizontal branching. Spectacular white flowers. Blooms early summer. Raspberry-like fruits are ornamental late summer to fall. One of the most beautiful of all flowering trees. Reddish-purple to scarlet fall color. SHRUB FORM AVAILABLE PG. 58</p>						
<p><i>Milky Way</i> ZONE 5-8 Ht. 20-30' Spread 20' Known for its white, star shaped, uniform heavy blooms. Large pinkish-red, edible strawberry-like fruit. Reddish purple fall color. Exfoliating bark gives a year round effect. Very suitable for small yards with its broad, bushy form. Wayside Gardens selection.</p>						
<p><i>Cornus mas</i> Corneliancherry Dogwood</p>	1'b	6'b	5'b	4'b	3'b	
<p><i>Corneliancherry Dogwood</i> ZONE 4-8 Ht. 20-25' Spread 15' Small tree or large multi-stemmed shrub. Rounded growth habit. Exfoliating gray-brown bark. Early yellow flowers appear in March before leaves. Bright cherry-red fruit. Full or partial sun. SHRUB FORM AVAILABLE PG. 58</p>	-UNDERCUT-					
<p>'<i>Golden Glory</i>' ZONE 4-9 Ht. 20-25' Spread 15' Large columnar upright habit good for screening. Profuse bright-yellow flowers in early spring. Cherry-red, 5/8" edible fruits attract birds. Glossy green leaves turn red in fall. Drought tolerant. Adapts to different soil types. Virtually pest free. SHRUB FORM AVAILABLE PG. 58</p>						
<p><i>Corylus avellana</i> European Filbert</p>	3' STANDARD	Hvy	#1	#1 lt	#2	
<p><i>Contorta</i> (<i>Harry Lauder's Walkingstick</i>) ZONE 4-8 Height & Spread 8-10' Stems and leaves twist and curl. Winter effect is highly ornamental with yellow catkins. Fruitless variety. Available only on columnar understock. Top grafted. SHRUB FORM AVAILABLE PG. 59</p>	-UNDERCUT-					
<p><i>Red Dragon</i> (<i>PAF</i>) ZONE 4-9 Height & Spread 5-10' Sun to part shade. Small tree with a spreading growth habit. Twisted stems and dark burgundy red leaves create a year round focal point in the landscape. Foliage emerges burgundy in the spring and turns dark green by midsummer. The new growth continues to push red to contrast with the older green leaves. Completely resistant to Eastern Filbert Blight. Deer resistant. Oregon State University introduction.</p>	-UNDERCUT-					
<p><i>xRosita</i> ZONE 3-9 Ht. 12-15' Spread 10-15' This small tree has deep green and dark red showy foliage with a matte, coarse texture. Its smooth, tan bark provides for a nice contrast with the rough texture of the leaves. It has showy, bright yellow blooms during late winter and on into mid-spring before leaves emerge. The yellow flowers give way to the edible hazelnuts. One of the best ornamental small trees for alkaline soil in full to partial sun. Can also thrive in neutral soils. Shows some resistance to Eastern Filbert Blight.</p>	-UNDERCUT-					
<p><i>Corylus colurna</i> Turkish Filbert</p>	11/4"b	1'b	6'b	5'b	4'b	
<p><i>Turkish Filbert</i> ZONE 4-7 Ht. 40-50' Spread 20-30' Broadly pyramidal. Thrives in adverse conditions including drought. Strong windproof tree. Does well in coastal areas. Ornamental catkins in early spring. One of the top street trees in Europe due to clean foliage. Free from insects and disease. Attractive corky, furrowed bark. Symmetrical form. Adapts to wide pH ranges. Full sun.</p>	-UNDERCUT-					
<p><i>Cotinus coggygia</i> Smoketree</p>	- TREE FORM -	6'b	5'b	4'b	3'b	
<p><i>Golden Spirit</i>® cv. '<i>Ancot</i>' (P.P. 13082) ZONE 4-8 Ht. 8' Spread 6' Brilliant, rich colors that vary from lime greens in spring to golds and reds in fall. Grows best in well-drained soils. Its growth habit is broadly upright and dense. A rapid grower, propagation is by softwood summer cuttings or tissue culture. Full or partial sun. A PlantHaven® selection.</p>	-UNDERCUT-					



CHINESE DOGWOOD



MILKY WAY



COTINUS

Cotinus continued on next page...

<i>Cotinus coggygia</i> Smoketree continued from previous page...	- TREE FORM -	6'b	5'b	4'b	3'b	
<i>Royal Purple</i> ZONE 5-8 Ht. 15-20' Spread 12' Slow growing, round small tree. Large panicles of wispy purple-colored flowers in spring and summer. Good as an accent in shrub border, specimen or as a patio tree. Deep purple leaves keep their color all summer. Spectacular fall color. SHRUB FORM AVAILABLE PG. 59	-UNDERCUT-					
<i>xGrace</i> ZONE 4-8 Ht. 20' Spread 15-20' A 1978 hybrid by Peter Dummer of Hillier Nurseries. Grace has a massive pink flower panicle 14" high by 11" wide. Leaves are pale red when young, darkening to blue-green with age turning red, orange and yellow in the fall.	-UNDERCUT-					
<i>Crataegus ambigua</i> Russian Hawthorn		1'b	7'b	6'b	5'b	4'b
<i>Russian Hawthorn</i> ZONE 4-6 Ht. 15-18' Spread 18-20' Small tree with spreading habit. Blooms early. Irregular branching habit. Fine textured, 1 to 2" long shiny, deeply lobed leaves. Bright colored red fruits are food for birds. Few thorns. Hardy in Great Plains and Midwest. Adapts to extreme temperatures and soil conditions. Resistant to cedar-apple rust.	-UNDERCUT-					
<i>Crataegus crusgalli</i> Cockspur Hawthorn		7'b	6'b	5'b	4'b	
<i>Thornless Cockspur (crusgalli inermis)</i> ZONE 4-7 Ht. 15-20' Spread 10-15' Rounded to wide-spread form. Vigorous, attractive small tree. Dark green leaves bronze to purple-red in fall. Single, fragrant, white blooms in May. Persistent red fruit attracts wildlife. Tolerates hot, dry, salty conditions. Full sun.	-UNDERCUT-					
<i>Crataegus laevigata</i> English Hawthorn		1'b	7'b	6'b	5'b	
<i>Crimson Cloud</i> ZONE 4-8 Ht. 20-25' Spread 15-25' Grows at a medium rate in pyramidal form to 20' then crown expands to become oval or irregular. Tolerates most soils. White and red flowers in spring. Fruits are red and quite showy.	-UNDERCUT-					
<i>Paul's Scarlet</i> ZONE 4-7 Ht. 15-20' Spread 10-15' Rounded form. Bright, showy double scarlet flowers contribute to making this a popular landscape tree. Small glossy red fruit. Yellow fall color. Tolerates tough city conditions.	-UNDERCUT-					
<i>Crataegus phaenopyrum</i> Washington Hawthorn		1'b	7'b	6'b	5'b	4'b
<i>Washington Lustre® cv. 'Westwood I'</i> ZONE 4-8 Height & Spread 20-25' A Carlton Plants budded selection having fewer thorns and more vigor. Early, profuse blooms. Good choice for urban settings.	-UNDERCUT-					
<i>Crataegus viridis</i> Green Hawthorn		1'b	7'b	6'b	5'b	4'b
<i>Winter King</i> ZONE 4-7 Ht. 20-30' Spread 20' Rounded habit. Glossy foliage, resistant to cedar-apple rust and air pollution. Few thorns. White flowers in clusters. Large, 3/8" orange-red fruit bear annually and heavily. Silver bark is attractive with persistent fruit. Purple to scarlet fall color. Good street tree. Tolerates heavy pruning. Withstands most soil types. A Robert Simpson selection.	-UNDERCUT-					
<i>Crataegus</i> Multi-stem Hawthorn		3'	2'	18"	12"	
<i>Russian Hawthorn (ambigua)</i> ZONE 4-6 Ht. 15-18' Spread 18-20'	-UNDERCUT-					
<i>Thornless Cockspur (crusgalli inermis)</i> ZONE 4-7 Ht. 15-20' Spread 10-15'	-UNDERCUT-					
<i>Washington Lustre® cv. 'Westwood I' (phaenopyrum)</i> ZONE 4-8 Height & Spread 20-25'	-UNDERCUT-					
<i>Winter King (viridis)</i> ZONE 4-7 Ht. 20-30' Spread 20'	-UNDERCUT-					



GRACE



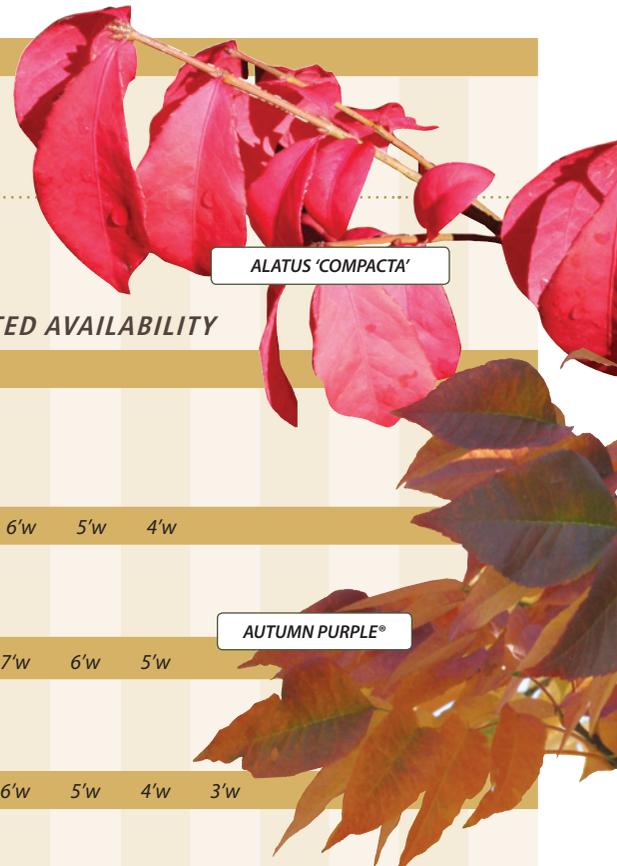
LUSTRE



CRATAEGUS AMBIGUA

QUALITY, PERFORMANCE, VALUE AND CONSISTENCY. IT'S IN THE DETAILS....

<i>Eucommia ulmoides</i> Hardy Rubber Tree	1"b	6'b	5'b	4'b																
<i>Hardy Rubber Tree</i> ZONE 4-7 Ht. 40-60' Spread 30-40' Rounded shade tree. Lustrous, elm-shaped green leaves. Very tolerant of many soils and drought conditions. Full sun. Known for rubber producing qualities along with its bark. Valued for medicinal purposes.																				
<i>Emerald Pointe™ cv 'Empozam'</i> ZONE 5 Ht. 40' Spread 5' Full sun. The upright, columnar shape of Emerald Pointe is perfect for tight spaces. Thick leaves are serrated and wavy. Its structure, unique foliage, drought resistance and soil adaptability combine for a little or no maintenance tree. No known pests or disease problems. Lake County Nursery 'ZAM' introduction.																				
<i>Euonymus</i>																				
<i>alatus 'Compacta' (Dwarf Winged Burning Bush)</i> ZONE 4-8 Ht. 8-10' Spread 4-6' Excellent for small areas or as a patio tree. Dense, compact form. Bark has attractive corky ridges. Red fall color. SHRUB FORM AVAILABLE PG. 60																				
<i>Fraxinus americana</i> White Ash	1"br	6'b	5'b	8'w	7'w	6'w	5'w	4'w												
<i>Autumn Purple® cv 'Junginger'</i> ZONE 4-8 Ht. 60-70' Spread 30-40' Rounded upright form. Glossy green leaves turn reddish-purple in early fall. Fast growing. Prefers full sun. Seedless male variety.																				
<i>Fraxinus oxycarpa</i>	1"b	6'b	5'b	9'w	8'w	7'w	6'w	5'w												
<i>Raywood</i> ZONE 5-8 Ht. 40-50' Spread 20-25' Vase shaped, compact form. Small fast growing tree. Small leaves. Attractive street tree. Beautiful red-purple fall color.																				
<i>Fraxinus pennsylvanica</i> Green and Red Ash	1"b	6'b	5'b	8'w	7'w	6'w	5'w	4'w	3'w											
<i>Patmore</i> ZONE 2-7 Ht. 50-60' Spread 30-35' Seedless ash with shiny leaves. Narrow width. Very hardy as well as tolerant of different growing conditions and urban settings. Yellow fall color.																				
<i>Ginkgo biloba</i> Maidenhair Tree	1"b	6'b	5'b	4'b	3'b	6'lt.b	5'lt.b	4'lt.b	6'w	5'w	4'w	3'w	2'w							
<i>Autumn Gold</i> ZONE 3-8 Ht. 40-60' Spread 30-40' Broad spreading form at maturity. Very symmetrical slower grower. Vivid golden fall color. Practically pest free and resistant to storm damage. Grafted male selection.																				
<i>Magyar</i> ZONE 4-8 Ht. 50-60' Spread 25-30' Narrow pyramidal form. Strong central leader produces well spaced branching without special pruning. Disease and pest free. Brilliant gold fall color. Tolerant of urban conditions. A grafted male selection from Princeton Nursery.																				
<i>Princeton Sentry®</i> ZONE 4-8 Ht. 60-70' Spread 20-30' Upright, columnar form. Pest and disease free. Slow grower. Golden fall color. A grafted male selection from Princeton Nursery.																				
<i>Windover Gold®</i> ZONE 4-8 Ht. 40-60' Spread 30-40' Upright oval form. A male cultivar. Strong grower. Golden fall color. A Windover Nursery introduction.																				



ALATUS 'COMPACTA'

LIMITED AVAILABILITY

AUTUMN PURPLE®



AUTUMN GOLD GINKGO

Ginkgo, according to fossil records, appeared as a species 200 million years ago.

'b' represents branched, 'lt.b' represents light branched, 'w' represents whips, '*' represents 1 year top

	1 1/4"b	1"b	6'b	5'b	4'b	8'w	7'w	6'w	5'w	4'w	3'w
<i>Gleditsia triacanthos inermis</i> Thornless Honeylocust											
<i>Imperial</i> ® cv. 'Impcole' ZONE 4-7 Ht. 40-50' Spread 20-30' Uniform, rounded, compact form. Excellent branching habit. Fine textured foliage. Yellow fall color. Thornless and seedless. Full sun.											
<i>Shademaster</i> ® ZONE 4-7 Ht. 50-60' Spread 30-35' Wide spreading, symmetrical form. Heavy dark green foliage turns yellow in fall. Thornless and seedless. A rapid grower with a strong straight trunk. Full sun.											
<i>Skyline</i> ® cv. 'Skycole' ZONE 4-7 Ht. 35-40' Spread 30-35' Broad, pyramidal form with tighter branching. Vigorous grower. Compact dark green foliage. Yellow fall color. Seedless and thornless. Full sun.											
<i>Skyline</i> ® cv. 'Skycole' ZONE 4-7 Ht. 35-40' Spread 30-35'										-UNDERCUT-	
<i>Street Keeper</i> ® 'Draves' ZONE 4 Ht. 45' Spread 20' Narrow, upright and pyramidal shape perfect for city streets. The fine textured foliage is deep dark green in spring and summer and yellow in the fall. Full sun.											
<i>Sunburst</i> ® cv. 'Suncole' ZONE 4-7 Ht. 30-40' Spread 20-25' Broad, pyramidal form. Symmetrical head. Medium growth rate. Golden foliage during spring and early summer changing to lime-green. Heavy pruning maintains new golden leaves. Yellow fall color. Seedless and thornless. Full sun.										-UNDERCUT-	
<i>Sunburst</i> ® cv. 'Suncole' ZONE 4-7 Ht. 30-40' Spread 20-25'										-UNDERCUT-	
<i>Gymnocladus dioicus</i> Kentucky Coffeetree											
<i>Kentucky Coffeetree</i> ZONE 3-8 Ht. 40-50' Spread 20-25' Narrow young growth broadens with age. New foliage is pink-tinged turning dark blue in summer. One of the latest in spring to leaf out. Fragrant white flower panicles. 10" reddish-pink leathery seed pods served as early Kentucky settlers' coffee beans. Adapts to alkaline soils, city conditions and is drought tolerant. Full sun.											
<i>Espresso</i> ™ cv. 'Espresso-JFS' ZONE 4 Ht. 50' Spread 35-40' Huge tree has an oval to vase shape with upright arching branches. Has doubly compounded leaves with a bluish-green color that gives it a tropical feel. Fall color is yellow. Good heat, drought and cold tolerance.											
<i>Halesia carolina</i> Carolina Silverbell											
<i>Arnold Pink</i> ZONE 6-9 Ht. 30-40' Spread 20-35' Rose-pink bell-shaped flowers in spring and lime green four winged fruit adorn this beautiful flowering tree. Prefers organically rich, moist, well-drained soils and a shady habitat. Pest resistant.											
<i>'Jersey Belle'</i> ZONE 4 Ht. 20-30' Spread 15-20' Very large white bell-shaped flowers hang in masses under the branches of Jersey Belle in the spring. Foliage is yellow in the fall and the bark is striped and interesting in the winter. The form is upright. Pest and disease resistant.											
<i>Halesia monticola</i> Mountain Silverbell											
<i>Mountain Silverbell</i> ZONE 5-8 Ht. 50-60' Spread 20-30' Low branched, conical habit. Native with delicate pale pink bell-shaped flowers borne on pendulous stalks. Gray furrowed bark. Good understory tree when planted with conifers. Disease resistant.											
<i>var. Vestita</i> ZONE 4-8 Ht. 40-60' Spread 25-35' The foliage on this delightfully small tree is dark green. Pinkish-white, snowdrop-like flowers hang from underside of branches in May. Flowers reliably when young. Prefers lime free soil, sun or light shade and shelter from strong winds.											



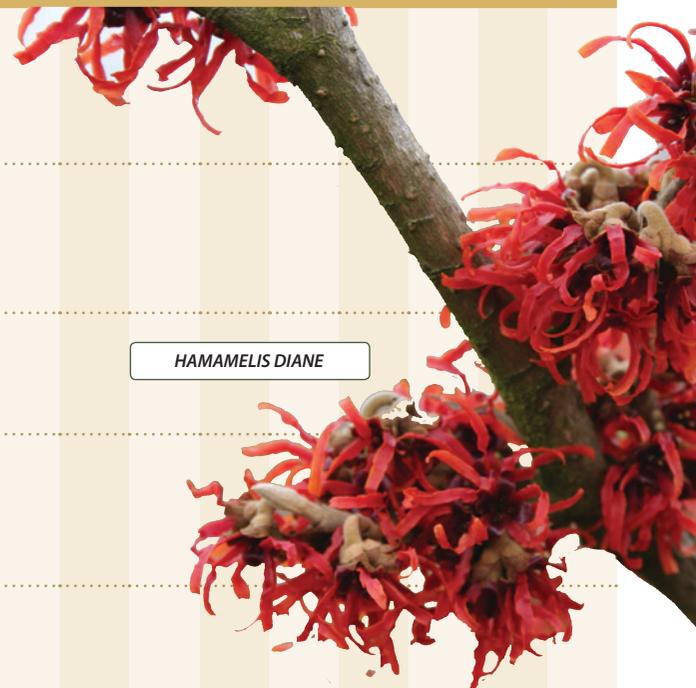
LIMITED AVAILABILITY



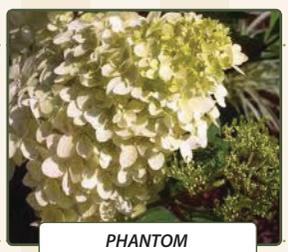
VESTITA

'b' represents branched, 'lt.b' represents light branched, 'w' represents whips, '*' represents 1 year top

<i>Hamamelis Witch hazel</i>		- TREE FORM -	3' STANDARD	Hvy	#1	#1 lt				
<i>x intermedia 'Arnold Promise'</i>	ZONE 5-8 Ht. 15-20' Spread 20'	Introduced by Arnold Arboretum. Clear yellow flowers with a reddish calyx cap. Fragrant petals are almost an inch long. Blooming time varies from year to year from late February to mid-April. Produces heavy crops of flowers every year. Full sun and partial shade. GRAFTED MULTI-STEM AVAILABLE PG. 61								
<i>x intermedia 'Barmstedt Gold'</i>	ZONE 5-8 Ht. 15-20' Spread 20'	An upright variety with narrowly ascending branches. Rich golden yellow fragrant flowers bloom in late January to February. One of the best witch hazels with excellent and consistent flower production. Yellow fall color. GRAFTED MULTI-STEM AVAILABLE PG. 61								
<i>x intermedia 'Diane'</i>	ZONE 5-8 Ht. 15-20' Spread 20'	Upright spreading tree form. Excellent red flowering form more copper-red than red. Orange-red fall color. Old leaves persist on this form. GRAFTED MULTI-STEM AVAILABLE PG. 61								HAMAMELIS DIANE
<i>x intermedia 'Jelena'</i>	ZONE 5-8 Ht. 15-20' Spread 20'	A Kalmthout Arboretum introduction. Beautiful shrub becoming wide spreading with age. Copper colored flowers that glow like copper from a distance. Rich, orange-red fall color. Also known as Copper Beauty. GRAFTED MULTI-STEM AVAILABLE PG. 61								
<i>x intermedia 'Rubin'</i>	ZONE 5-8 Ht. 15-20' Spread 20'	An upright vase shaped variety. An excellent red flowering selection that holds its color better than 'Diane'. It is lightly scented and has orange fall color. GRAFTED MULTI-STEM AVAILABLE PG. 61								



<i>Hydrangea paniculata Panicle Hydrangea</i>		4' Hvy	#1	#1lt	3' Hvy	#1	#1lt			
<i>Grandiflora (Peegee Hydrangea)</i>	ZONE 3-8 Height & Spread 10-15'	Tree form. Long summer blooming, huge drooping white flower clusters, often 10" long and wide. Clusters turn mauve-pink before dropping. Nice vigorous strain. SHRUB FORM AVAILABLE PG. 62								
<i>cv. 'Phantom'</i>	ZONE 3 Height and Spread 10'	A sister seedling of Limelight, but with stronger branches to support the large flowers. Multi-stemmed deciduous small tree with an upright spreading habit. This small tree is best known for its bold conical flowers with pink overtones that bloom at the ends of each branch. These flowers can be seen from mid-summer all the way through late fall. Grows well in both full sun and full shade and prefers average soil moisture. Very tolerant of urban pollution and is known to thrive in inner cities. SHRUB FORM AVAILABLE PG. 62								PHANTOM
<i>Tardiva (Late Panicle Hydrangea)</i>	ZONE 3-8 Ht. 6-8' Spread 4-6'	Valued for season extending color. Blooms September through October. Large 6-8" white panicles turn to creamy yellow with pink edges. Dark green leaves and coarse branches. Full sun. SHRUB FORM AVAILABLE PG. 63								
<i>Unique</i>	ZONE 4-8 Ht. 8-10' Spread 10-15'	Large 8-10" conical, broad flower heads are white in mid-July turning to dusty pink in fall. Spectacular floral display. Larger blooms than familiar Peegee variety. Dense rounded form. Vigorous and trouble free. Full sun. SHRUB FORM AVAILABLE PG. 63								



3' B AND SMALLER AND 4' WHIPS AND SMALLER, ORDER IN MULTIPLES OF 10.
4' B AND LARGER & ALL FRUIT TREES CAN BE ORDERED IN MULTIPLES OF 5.



	1 1/2"b	1 1/4"b	1"b	6"b	5"b	1"lt.b	6"lt.b	5"lt.b
<i>Koelreuteria paniculata</i> Goldenraintree								
<i>Goldenraintree</i> ZONE 4-8 Ht. 30-40' Spread 20-25' Dense smaller tree with rounded form. Summer blooming showy, fragrant, yellow flower panicles turn to attractive, reddish-pink, leathery fruit capsules. Excellent as a small lawn tree. Very adaptable to soil extremes. Drought tolerant.								
<i>Golden Candle™ cv. 'Golcanzam'</i> ZONE 5 Ht. 35' Spread 4' A very narrow tree perfect for tight spaces. Large bright gold flowers with green leaves in summer. Foliage is brilliant gold in the fall. Performs well in most soils. Will tolerate heat and drought. A Lake County introduction.								
<i>Laburnum x watereri</i> Goldenchain								
<i>Vossi</i> ZONE 5-8 Ht. 12-15' Spread 10-12' A superior clone selected for its dense habit, small size and unique 2' long, yellow pea-shaped flower clusters. Bright green foliage. Poisonous seeds.								
<i>Liquidambar styraciflua</i> Sweetgum								
<i>Happidaze® cv. 'Hapdell'</i> ZONE 5-9 Ht. 80' Spread 40' Outstanding even as a juvenile. Exhibits heavy crown of deep green, lustrous leaves with well spaced branching. In autumn tree takes on a deep maroon color throughout. A Discov-Tree Research & Development selection. Nearly seedless.								
<i>Moraine (Moraine Sweetgum)</i> ZONE 4-9 Ht. 45' Spread 30' Tremendously uniform broad oval shaped upright tree with glossy dark green foliage and brilliant burgundy-red and yellow fall color. 'Moraine' is fast growing and extremely cold hardy (to -24°F). A Siebenthaler Nursery introduction.								
<i>Slender Silhouette</i> ZONE 5-9 Ht. 60' Spread 6-8' Very upright form. Because of minimal seeds this variety is not a problem in the landscape. A good fast grower. Fall color is yellow with burgundy tinges. Good for use as a hedge or border planting.								
<i>Worplesdon (Worplesdon Sweetgum)</i> ZONE 4-9 Ht. 40' Spread 25' This cultivar is said to be cold tolerant to -29°F. Pyramidal to oval form. Twigs not corky and bark is smoother than the species. Unique, narrow, deeply lobed leaves are light, glossy green and have consistent fall coloring of apricot orange to purple. Excellent lawn or street tree. G. Jackman and Sons, England, introduction.								
<i>Liriodendron tulipifera</i> Tuliptree								
<i>Liriodendron tulipifera</i> ZONE 4-8 Ht. 60-80' Spread 30-40' Spreading, rising branches, forming tall pyramidal crown. Large, magnificent tree when fully developed. Not good for small residential property or streets. Greenish-yellow flowers appear in May. Large green leaves change to golden yellow in fall. We recommend trunk wrapping the first season to prevent sun scald.								
<i>'Arnold'</i> ZONE 4 Ht. 50-60' Spread 15-20' A statuesque narrow tree with upright branching. Bright green summer foliage turning yellow golden in the fall. We recommend trunk wrapping the first season.								
<i>Aureo-marginatum</i> ZONE 5-9 Ht. 40-60' Spread 15-25' Full sun to part shade. A perfect stand-out tree with a pyramidal form. The attractive variegated leaves are a nice contrast with the tulip shaped yellow and orange flowers in late spring. Deer and drought resistant. North American native.								



KOELREUTERIA



LIRIODENDRON TULIPIFERA

Trunk wrapping Liriodendron will reduce transplant loss and prevent sun scald.

'b' represents branched, 'lt.b' represents light branched, 'w' represents whips, '*' represents 1 year top



carlton
PLANTS

quality
PERFORMANCE **Value**
innovation



**SPROUT
FREE**



This Tree has been Grown on "SPROUTFREE" Rootstock.
THE BENEFITS ARE:

- It is Highly Sucker Resistant
- Significant Time and Labor Reductions are Realized
- Tree Variety is Healthier and More Vigorous
- Well Anchored Root System
- Well Aesthetically Pleasing Landscape
- Hardy to Zone 3
- Contributes to a More Aesthetically Pleasing Landscape

CORRECT PLANTING DEPTH:
Bud or graft union should be approximately
1-1/2" above soil level.

SPROUTFREE is a trademark of Carlton Plants LLC, Dayton, OH



**SPROUT
FREE**

SPROUTFREE tags
are now available!
~ See page 11 for more details.



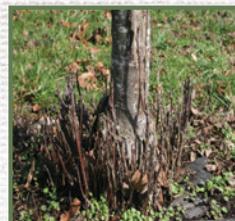
SPROUTFREE® FROM CARLTON PLANTS

Carlton Plants is pleased to introduce *SPROUTFREE*®, a new and exciting Malus rootstock available for flowering crabapple cultivars. We have tested and evaluated this rootstock for approximately 15 years throughout the United States and Canada. *SPROUTFREE*® brings to the nursery trade the following benefits:

- Highly sucker resistant
- Significant time and labor cost savings for growers
- Maintenance reduction for municipalities and home owners
- Hardy to Zone 3
- Vigorous, full size producing rootstock
- Produces a well anchored root system
- Broad spectrum variety compatibility



CRABAPPLES WITH SPROUTS



We feel *SPROUTFREE*® will make the flowering crabapple a much more desirable plant in the future. Growers will save countless hours removing suckers, and those who plant flowering crabapples will be planting a more desirable product resulting in less maintenance and greater aesthetics in the landscape.

Maackia amurensis Amur Maackia

1 1/4"b 1"b 6'b 5'b 1"lt.b 6'lt.b 5'lt.b 4'lt.b

Maackia amurensis ZONE 4-7 Height & Spread 20-30' Interesting amber or copper colored exfoliating bark is shiny and varnished looking. Dull white flowers with a grassy fragrance appear in early summer. Plant in sun with a loose well drained soil. This is a nice small residential tree. Its adaptability to difficult sites makes it useful for landscaping.

'Starburst' (P.P. 10557) ZONE 4-7 Ht. 30' Spread 25' Selected for its uniformity, abundant blooms and vigorous growth. Upright white flower spikes appear in June and July above dark green foliage. Excellent small tree suited for planting beneath utility lines.



Malus Flowering Crabapple

1"b 7'b 6'b 5'b 4'b 6'lt.b 5'lt.b 4'lt.b

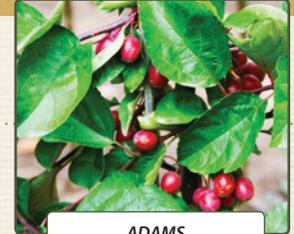
Adams ZONE 4-8 Height & Spread 15-20' Dense rounded, spreading form. Single flowers are carmine in bud opening to deep-pink. Persistent deep red 5/8" fruit. Good disease resistance.

VIRUS CERTIFIED

Adirondack ZONE 4-8 Ht. 15-18' Spread 10-12' Compact, narrow, upright form. Somewhat slow growing. Red buds open to single, large, waxy white blooms with red tinge. Orange-gold 1/2" fruit. Excellent disease resistance.

VIRUS CERTIFIED

-AVAILABLE ON DOLGO ROOTSTOCK-



ADAMS

Bechtel, Klehm's Improved ZONE 4-8 Height & Spread 15-20' Round form, dense green foliage. Large double pink blooms. Orange and orange-red fall color. Improved strain. Seldom fruits, inconspicuous.

VIRUS CERTIFIED

Candy mint Sargent ZONE 4-8 Ht. 8-10' Spread 15-18' Horizontal form. Profuse blooms, deep carmine in bud opening to single pink outlined in red. Purplish green cast foliage. Deep-purple fruit. Cherry-like, reddish-brown bark. Scab resistant.

VIRUS CERTIFIED

Cardinal™ ZONE 4-7 Height & Spread 15-20' Horizontal spreading form. Flowers are bright red pink. Dark red glossy foliage highly resistant to scab and mildew. Deep red 1/2" fruit in the fall. Fruit is not abundant. A Princeton Nursery introduction.

VIRUS CERTIFIED

Dolgo ZONE 2-8 Ht. 30-40' Spread 20-30' Upright spreading form. Large 1 3/4" fragrant single white flowers. Large egg shaped red-purple 1 1/4" fruit. Fruit ripens in August-September. Excellent for jelly. Popular pollinizer for early to mid-season apple varieties. Extremely hardy. Good disease resistance. Golden yellow bark. Introduced by the South Dakota experimental station.

VIRUS CERTIFIED

-AVAILABLE ON DOLGO ROOTSTOCK-

Donald Wyman ZONE 4-8 Height & Spread 20-25' Rounded form. Glossy green foliage appears clean. Pink buds opening to single white flowers. Bright red 3/8" glossy fruit persists longer than other crabs. Very good disease resistance.

VIRUS CERTIFIED

Emerald Spire® x '*Jefgreen*' (PPAF) ZONE 2 Ht. 15' Spread 6' Slow growing very columnar tree form. Large dazzling blooms of pink with dark pink stripes in the spring. Disease-free foliage, excellent resistance to apple scab. Ideal as a privacy screen or accent tree. Good winter hardiness. A Jeffries Nurseries introduction.



Floribunda (Syn. Japanese Flowering Crabapple) ZONE 4-8 Ht 15-20' Spread 20' Arching, broad, dense form. Profuse, fragrant, single pink-red buds opening to white flowers. Yellow-red 1/2" fruit. Green foliage. Good disease resistance.

VIRUS CERTIFIED



CARDINAL

Malus continued on next page...

QUALITY, PERFORMANCE, VALUE AND CONSISTENCY. IT'S IN THE DETAILS....

Malus continued from previous page...

1"b 3/4"b 7'b 6'b 5'b 4'b 3'b

Golden Raindrops® (Schmidcutleaf) ZONE 3-8 Height & Spread 15-25' Vase-shaped upright form. White blossoms in spring turn to small 1/4" golden-yellow fruit. Unique deeply cut, glossy green leaves appear to be disease resistant. Good fall color. Resistant to Japanese beetle. J. Frank Schmidt Nursery introduction. **VIRUS CERTIFIED**

Harvest Gold® cv. 'Hargozam' ZONE 3-8 Height & Spread 15-20' Upright open form. Profuse single white blooms later in the spring. Clusters of golden 3/8" fruit cover the tree into December. Attracts wildlife. Disease resistant and salt tolerant. A Lake County Nursery 'ZAM' introduction. **VIRUS CERTIFIED**

Indian Magic ZONE 4-8 Height & Spread 15-20' Round, upright form. Red buds turn to single deep pink 1 1/2" flowers. Persistent 1/2" orange-red fruit. Dark green foliage. Fall color is apricot-orange. Good disease resistance, moderately susceptible to scab. **VIRUS CERTIFIED**

Indian Summer ZONE 4-8 Height & Spread 18-25' Small, dense, rounded tree with rose-red blossoms. Bright-red 5/8" fruit persist over a long period of time. Bronze-green foliage turns to orange in fall. Very good disease resistance. Recommended for highway plantings. **VIRUS CERTIFIED**

Marilee® cv 'Jarmin' (P.P. 14337) ZONE 4-8 Ht. 25' Spread 10' Neat, upright form. Pink-red buds open to semi-double white flowers. A spur type variety producing profuse blooming with little or no fruit. Introduced by Marvin Jarmin.

Pink Princess™ cv. 'Parsi' ZONE 5 Ht. 8' Spread 12' Low spreading form. Purple foliage becomes bronze-green in summer to yellow in fall. Purple buds open to rose-pink blooms. Heavy bloomer. Persistent deep red 1/4" fruits. Excellent disease resistance. J. Frank Schmidt Nursery introduction. **VIRUS CERTIFIED**

Pink Sparkles® cv 'Malusquest' (P.P. 12482) ZONE 4 Ht. 15' Spread 12' Compact upright form becoming more pyramidal with age. Masses of bright crimson buds open to a warm pink blush. Cherry red fruit persists into spring. Cross between Red Jewel and Prairifire. Good resistance to apple scab, apple mildew, fireblight and cedar-apple rust.

Pink Spires ZONE 3-8 Height & Spread 15-18' Narrow upright form. Single pink blooms. One of the earliest to bloom. Reddish-purple fruit, 1/2" and persistent. Maroon foliage. **VIRUS CERTIFIED**



HARVEST GOLD



MARILEE®



PINK SPARKLES

-AVAILABLE ON DOLGO ROOTSTOCK-

Malus continued on next page...



Malus continued from previous page...

1'b 7'b 6'b 5'b 4'b 3'b

Prairifire ZONE 4-8 Height & Spread 15-20' Upright spreading rounded form. Single coral-red blooms late season. Dark purple-red persistent $\frac{3}{8}$ - $\frac{1}{2}$ " fruit. Emerging red-tinged green foliage. Excellent disease resistance. **VIRUS CERTIFIED**

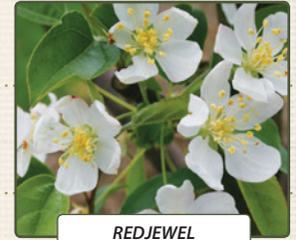
-AVAILABLE ON DOLGO ROOTSTOCK-



PRAIRIFIRE

Profusion ZONE 4-8 Height & Spread 15-20' Upright rounded form. Fragrant deep red buds, opening purplish-red fading to purplish-pink single flowers. Good disease resistance. Maroon-red $\frac{1}{2}$ " fruit. Purple-bronze leaves. Fast growing. **VIRUS CERTIFIED**

-AVAILABLE ON DOLGO ROOTSTOCK-



REDJEWEL

Purple Prince ZONE 4 Height & Spread 20' Fast growing. Rounded broad form. Purple foliage becomes bronze-green with age. Single rose-red blooms. Persistent blue-purple $\frac{3}{8}$ " fruit. Young bark is purple. Disease resistant. J. Frank Schmidt Nursery introduction. **VIRUS CERTIFIED**

-AVAILABLE ON DOLGO ROOTSTOCK-

Radiant ZONE 3-8 Height & Spread 15-20' Compact rounded form. Single, deep pink flowers. Rose-red $\frac{1}{2}$ " fruits are not persistent. Reddish-orange bark. Bronze-green foliage. Susceptible to scab. Hardy. **VIRUS CERTIFIED**

Red Barron ZONE 4-8 Ht. 18-20' Spread 12-20' Narrow, columnar form when young, as broad as tall at maturity. Single deep red blooms. Dark red $\frac{1}{2}$ " fruit. Purple foliage fading to bronze-green. Good disease resistance but susceptible to scab. **VIRUS CERTIFIED**

-AVAILABLE ON DOLGO ROOTSTOCK-

Red Jewel® cv. 'Jewelcole' ZONE 4-8 Ht. 15' Spread 12' Upright, pyramidal, narrow form. Single white blooms. Firm bright cherry-red $\frac{1}{2}$ " fruit are very persistent. Good disease resistance. Moderately susceptible to scab and fireblight. **VIRUS CERTIFIED**

PROFUSION

Royalty ZONE 3-8 Height & Spread 15-18' Rounded dense form. Single purple blooms. Dark red-purple $\frac{5}{8}$ " fruit. Outstanding dark purple foliage. Susceptible to scab. **VIRUS CERTIFIED**

Royal Raindrops® cv. 'JFS-KW5' (P.P. 14375) ZONE 4-8 Ht. 20' Spread 15' Upright, spreading form. Bright pinkish-red blooms. Persistent, $\frac{1}{4}$ " red fruit. Purple cutleaf foliage. Excellent disease resistance. J. Frank Schmidt Nursery selection. **VIRUS CERTIFIED**

Malus continued on next page...



Malus continued from previous page...

3/4"b 4'b 3'b

Sargent ZONE 4 Height & Spread 8-12' Low spreading, horizontal, dwarf habit. Red in bud opening to single, late season, snowy white, fragrant blooms. Small 1/4" scarlet-red persistent fruit. Clean foliage. Great for small courtyards and patios. Excellent disease resistance. **VIRUS CERTIFIED**

Show Time™ cv. 'Shotizam' ZONE 4-8 Ht. 25' Spread 15-20' Upright rounded form. An exciting new crabapple with bright fuchsia red blooms in the spring followed by attractive wine-tinted foliage. Fair disease resistance, excellent mildew resistance. Fruit turns cherry red in the fall and lasts well into winter. Lake County Nursery 'ZAM' introduction.

Snowdrift ZONE 3-8 Height & Spread 15-20' Upright, spreading, broad form. Pink buds opening to single white flowers. Long bloom period. Persistent, salmon-red 3/4" fruit. Heavy textured glossy green foliage. Susceptible to fireblight. **VIRUS CERTIFIED**

Spring Snow ZONE 3-8 Ht. 20-25' Spread 15-20' Dense upright oval form. Profuse early single white fragrant blooms. Bright green foliage. Yellow bark and yellow fall color. Nearly sterile. Good tree for patio or courtyard. Susceptible to scab. Fireblight resistant. **VIRUS CERTIFIED**

Starlite® x 'Jeflite' ZONE 2 Ht. 20' Spread 15' A beautiful cultivar with an upright habit, covered with white blooms in spring emerging from bright red flower buds. The tiny red candy-like fruit retains itself throughout the winter adding interest and a food source for wildlife. Starlite is a cross between Rosthern and Spring Snow with the advantage of clean foliage with excellent resistance to foliar apple scab. Grows best in full sunlight or partial shade. Fragrant. A Jeffries Nurseries selection. **VIRUS CERTIFIED**

Sugar Tyme® cv. 'Sutyzam' ZONE 4-8 Height & Spread 15-20' Upright, oval form. Sugary-white fragrant single flowers. Persistent 1/2" red fruit remaining throughout January. Good disease resistance. Moderately susceptible to fireblight. Lake County Nursery 'ZAM' introduction. **VIRUS CERTIFIED**

Thunderchild ZONE 3-8 Height & Spread 15-20' Dark red-purple leaves. Compact upright form. Single bright-pink blooms. Dark red-purple 3/8" fruit. Resistant to fireblight. Moderately susceptible to scab. Orange-yellow fall color. **VIRUS CERTIFIED**

Velvet Pillar™ cv. 'Velvetcole' ZONE 4-7 Height & Spread 15-20' Tight, upright form. Single pink flowers. Sparse reddish 1/2" fruit. Dull purplish foliage. Moderately susceptible to scab and fireblight. **VIRUS CERTIFIED**

Zumi Calocarpa ZONE 4 Height & Spread 15-20' Rounded form. Fragrant single white blooms. Persistent red 5/8" fruit. Dense foliage. Good disease resistance. Moderately susceptible to fireblight. Introduced to the United States by the Arnold Arboretum. This flowering crab would be an excellent garden specimen. **VIRUS CERTIFIED**

Malus Top Grafted Flowering Crabapple

Hvy Sel Hvy #1 #1 lt #2

Cinderella® cv. 'Cinzam' ZONE 4-8 Ht. 8' Spread 5' Dwarf rounded, upright form. Tiny red buds opening to snow-white flowers with small 1/4" fruit lasting into late fall. Disease resistant. A Lake County Nursery 'ZAM' introduction. **3 1/2' STANDARD**



SHOWTIME



SPRING SNOW



SPRING SNOW



LIMITED AVAILABILITY

-AVAILABLE ON DOLGO ROOTSTOCK-

-AVAILABLE ON DOLGO ROOTSTOCK-



ZUMI CALOCARPA

Malus top grafted continued on next page...

Malus Top Grafted Flowering Crabapple continued from previous page...

3 1/2' STANDARD

Hvy Sel Hvy #1 #1 lt #2

Coralburst® cv. 'Coralcole' ZONE 3-8 Height & Spread 8-10' Compact rounded dense form. Fairly slow growing. Late season coral pink buds open to double rose-pink blooms. Bronze 1/2" fruit. Small green leaves. Very good disease resistance. Moderately susceptible to scab.

VIRUS CERTIFIED

Firebird® cv. 'Select A' (P.P. 12621) ZONE 3-7 Ht. 9' Spread 12' Compact rounded form when young, spreading with age. Slow to medium growth rate. Persistent red fruit throughout fall and winter. Fruit color rivals that of 'Red Jewel'. Red to pink flower buds open to sweet smelling white blooms. Very disease resistant. Johnson's Nursery selection.

Lancelot® cv. 'Lanzam' ZONE 4-8 Ht. 8-10' Spread 8' Small, dense, oval upright tree. Compact form. Brilliant red buds turn to snow-white blooms. Crisp green foliage is disease resistant. Leaves turn an elegant gold in fall. Gold persistent fruit. Excellent for small spaces. A Lake County Nursery 'ZAM' introduction.

VIRUS CERTIFIED

Lollipop™ cv. 'Lollizam' ZONE 4 Height & Spread 12-15' Rounded form as the name suggests. Dwarf, compact head with dense foliage. Maintains its symmetrical form without pruning. Prolific white blooms turn to 3/4" golden-amber fruits. Disease resistant. A Lake County Nursery 'ZAM' introduction.

VIRUS CERTIFIED

Royal Gem™ cv. 'Fridlund' ZONE 3-8 Height & Spread 5-8' Compact, upright angular growth. New leaves are crimson-red turning to dark green. Single, rose-red flowers. Dark red fruits. Yellow fall color. Originated by Dr. Fridlund, Washington State University and trademarked by Carlton Plants.

VIRUS CERTIFIED

Sargent Tina ZONE 4-8 Ht. 5-8' Spread 10-12' Horizontal, spreading habit. Bright red buds followed by single white fragrant flowers. Red 1/4" fruit. Green lobed leaves display great fall color. Very disease resistant. Dwarf tree. Excellent for patio container planting.

VIRUS CERTIFIED

Malus Weeping Flowering Crabapple

Hvy #1 #1 lt #2

April Showers™ cv. 'Mill-Fontana 'Uebo' (P.P. 15559) ZONE 4-8 Ht. 8-10' Spread 4-6' Weeping habit with light pink to white blooms that appear in spring and bright red crabapples that appear in the fall. Narrow, dark green foliage covers the delicate weeping limbs once the flowers fall. Prefers full sun and adapts to most conditions. Attracts birds. Plants Nouveau

3 1/2' STANDARD

Louisa ZONE 4-8 Height & Spread 15-20' Broad graceful weeping form. Profuse, rose-pink single blooms. Dark green glossy leaves. Lemon-gold 3/8" fruits. Excellent disease resistance. Japanese beetle resistant. Good replacement for Echtermeyer.

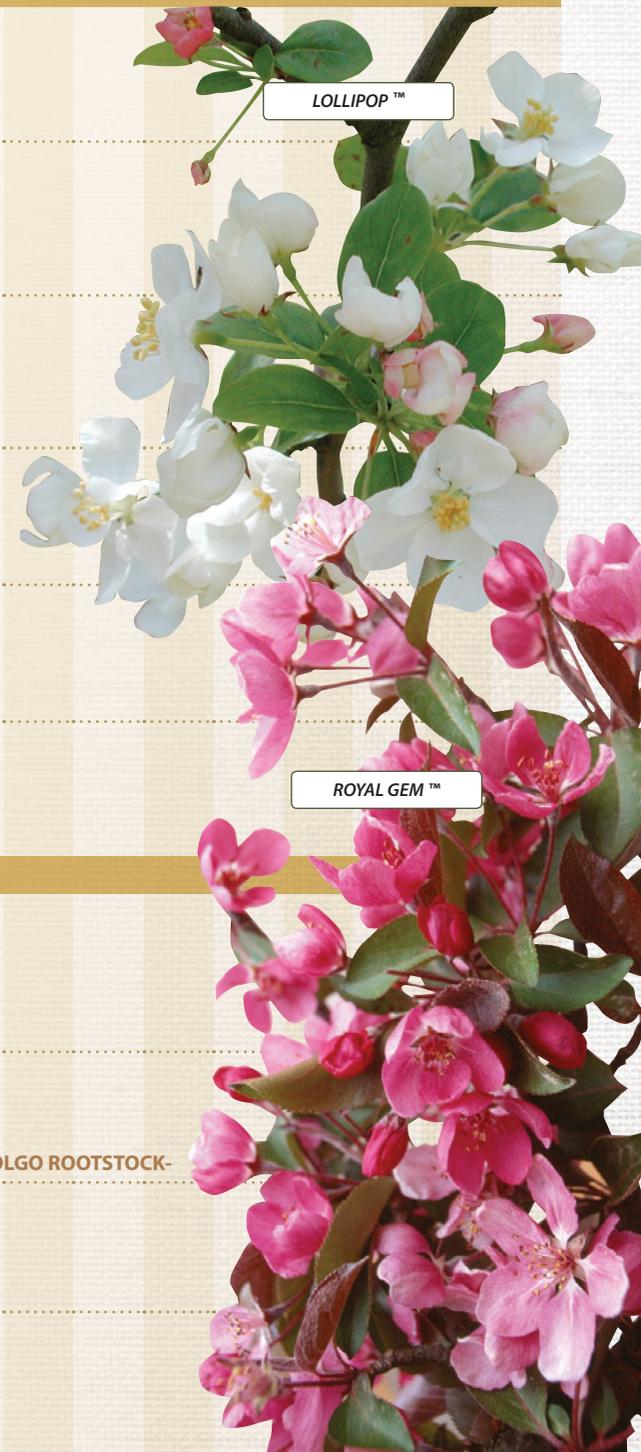
VIRUS CERTIFIED

Red Jade ZONE 3-8 Height & Spread 12-15' Weeping form. Deep pink buds open to profuse large single white flowers. Persistent oblong red 1/2" fruit. Green foliage. Long graceful branches. Moderate disease resistance. Susceptible to scab.

VIRUS CERTIFIED

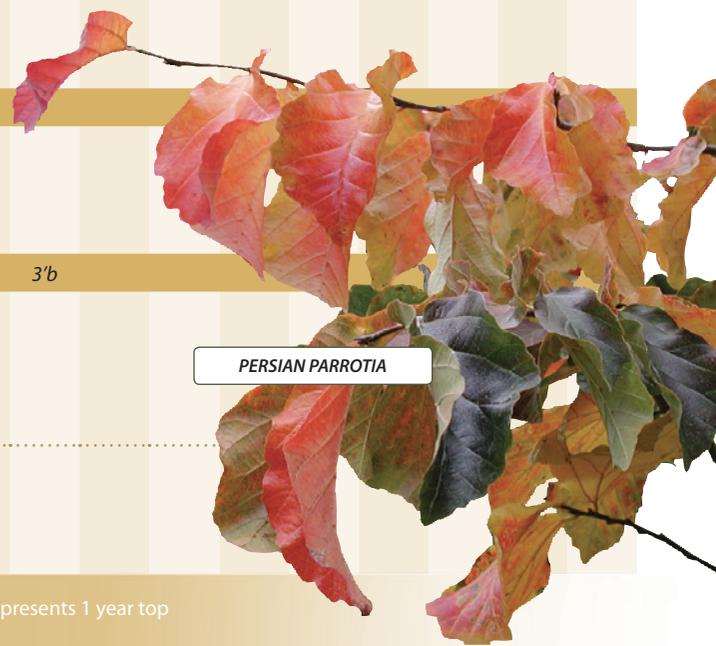
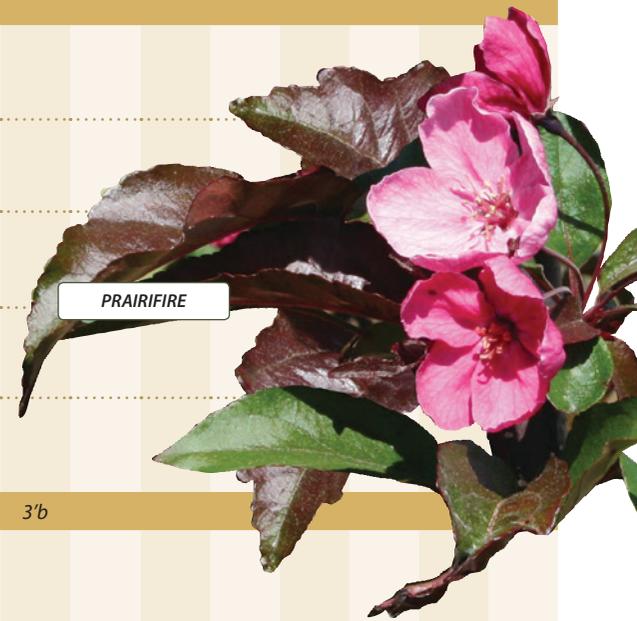
Royal Beauty ZONE 3 Ht. 10-12' Spread 6-8' An elegant small weeping crabapple with deep reddish-pink flowers and reddish-bronze leaves. The dark red fruit remains on the tree and is enjoyed by birds. Hardy with excellent disease resistance.

VIRUS CERTIFIED



-AVAILABLE ON DOLGO ROOTSTOCK-

Malus Multi-stem Flowering Crabapple		4'	3'	2'	18"	12"	
<i>Prairifire</i> ZONE 4-8 Height & Spread 15-20' Single pinkish-red blooms. ON SPROUTFREE® ROOTSTOCK	VIRUS CERTIFIED						
<i>Purple Prince</i> ZONE 4 Height & Spread 20' ON SPROUTFREE® ROOTSTOCK	VIRUS CERTIFIED						
<i>Red Jewel® cv. 'Jewelcole'</i> ZONE 4-8 Ht. 15' Spread 12' Single white blooms. ON SPROUTFREE® ROOTSTOCK	VIRUS CERTIFIED						
<i>Royal Raindrops® cv. 'JFS-KW5'</i> (P.P. 14375) ZONE 4-8 Ht. 20' Spread 15' ON SPROUTFREE® ROOTSTOCK							
<i>Spring Snow</i> ZONE 4-8 Height & Spread 15-20' Single white blooms. ON SPROUTFREE® ROOTSTOCK	VIRUS CERTIFIED						
Metasequoia glyptostroboides Dawn Redwood		8'b	7'b	6'b	5'b	4'b	3'b
<i>Dawn Redwood</i> ZONE 4-8 Ht. 70-100' Spread 25' Deciduous fast growing pyramidal conifer. Emerging bright green needles turn yellow to golden-red in fall. Straight trunk. Fissured brown bark. Prefers moist, deep, well drained slightly acidic soil but will tolerate most types and conditions. No pest or disease problems. Effective as a screen, in groves, parks and large areas. Full sun.		-UNDERCUT-					
<i>Gold Rush</i> ZONE 5-8 Ht. 70' Spread 20-30' Pyramidal growth habit. Discovered as a seedling in Japan. Foliage is gold as in its name. Color keeps well into the summer, turning orange-brown in the fall. In the spring its needles turn an almost chartreuse yellow gold. An interesting fissured bark gives it winter interest.							
Morus alba White Mulberry - OWN ROOT -		Hvy	#1	#1 lt	#2		
<i>Chaparral</i> ZONE 3-8 Height & Spread 8-10' Moderate growth rate. Twisted slender weeping branches make this tree a novelty. Dark green leaves turn yellow in fall. Fruitless. Can withstand dry, salty, alkaline conditions and pollution. Small to medium-sized tree.		-UNDERCUT-					
Ostrya virginiana American Hophornbeam		1"b	6'b	5'b	4'b		
<i>American Hophornbeam</i> ZONE 3-9 Ht. 25-40' Spread 20-30' Small to medium-sized tree. Hop-like fruit. Pyramidal when young, becoming more rounded when mature. Good tree for lawns, parks, golf courses, naturalized areas and rural streets. Tolerates dry, acidic and alkaline soils. Yellow fall color.		-UNDERCUT-					
Parrotia persica Persian Parrotia		1"b	6'b	5'b	4'b	3'b	
<i>Persian Parrotia</i> ZONE 5-8 Ht. 20-40' Spread 20' Upright, oval, single-stemmed tree. Mottled gray and white exfoliating bark is attractive the entire year in older plants. Dark green leaves turn from brilliant orange to scarlet. Resistant to disease and insects. Tolerates drought, heat, cold and wind. Prefers well drained slightly acidic soil. Full or partial sun. SHRUB FORM AVAILABLE PG. 65							
<i>Ruby Vase® cv. 'Inge'</i> ZONE 4-8 Ht. 30' Spread 12' A new consistent growing cultivar with upright vase shaped form. New growth is purplish-red throughout the summer growing period. A Carlton Plants introduction. SHRUB FORM AVAILABLE PG. 65							





carlton[®]
PLANTS

quality
PERFORMANCE **Value**
innovation



NEW! LITTLE TWIST[®] FLOWERING CHERRY FROM CARLTON PLANTS

Carlton Plants is very excited about this new variety. We have been trialing and growing the **LITTLE TWIST[®]** for years and find it to be an excellent flowering cherry and very desirable for any landscape. Good quantities are available this year.

- Winner of ~ The Best Tree 2009 Farwest Show New Varieties Showcase.
- Native to Japan ~ Virus Certified and very hardy to Zone 5.
- Prefers full sun to part shade and is adaptable to various soil types.
- A *Prunus incisa* (Fuji Cherry) selection with stems and shoots that twist and zigzag offering a unique form that supports profuse, tightly clustered white bell-shaped flowers with pink centers.
- Blooms in early spring.
- A tree with all season beauty creating year round interest. Green unique small serrated leaves in summer. A rainbow of fall color ranging from bright orange to a deep maroon red.
- Grafted on a 3-4' standard, **LITTLE TWIST[®]** is perfect for small spaces and as a patio tree.
- This slow grower tops out at a height and spread of 8'.
- **LITTLE TWIST[®]** is also available in a shrub form ~ See Page 66.



LITTLE TWIST[®] Flowering Cherry has everything one could enjoy for all seasons in the landscape. This enchanting ornamental selection is a continuous show throughout the year. Dainty profuse flowers are a delight to see in early spring. Small serrated green leaves follow in summer turning to beautiful shades of color in the fall. Zigzag branching in winter gives this plant a uniquely characteristic form. **LITTLE TWIST[®]** Flowering Cherry is a very appealing plant, easy to grow and enjoy year after year in the garden.

<i>Physocarpus opulifolius</i> Ninebark - TREE FORM -	6'b	5'b	4'b	3'b											
<i>Center Glow</i> ZONE 3 Ht. 8-10' Spread 6-8' Provides an accent of color in the landscape during the entire growing season. Upright, rounded shape. New leaves rosy red in color with a bright golden yellow base. As leaves mature they become a darker deep burgundy color. Flower buds are light pink opening to clusters of white flowers. Full sun. Prefers well-drained soil. Landscape Plant Development Center introduction. SHRUB FORM AVAILABLE PG. 66															
<i>Diabolo</i> ® cv. 'Monlo' (P.P. 11211) ZONE 2-7 Ht. 8-10' Spread 6' Excellent dark reddish-purple foliage for garden contrast. Young bark is shiny red-brown and in maturity exfoliates in strips. Pinkish white flower clusters in late spring are followed by green to red berries attractive to birds and small mammals. Prune in winter for straighter spring growth and bigger leaves. SHRUB FORM AVAILABLE PG. 66															
<i>Platanus x acerifolia</i> London Planetree	1 1/2'b	1 1/4'b	1'b	6'b	5'b	4'b	7'w	6'w	5'w	4'w	3'w				
'Bloodgood' (<i>London Planetree</i>) ZONE 4-8 Ht. 50-80' Spread 30-40' Wide spreading, open form. Medium to dark green foliage. Exfoliating bark. Rapid growing. Greater resistance to anthracnose than the species. Tolerates soil compaction, heat and drought.															
<i>Exclamation!</i> ™ cv. 'Morton Circle' ZONE 5-8 Ht. 55' Spread 35' A strong central leader with an upright pyramidal shape makes this tree easy to grow. Urban tolerant, anthracnose resistant and moderately resistant to powdery mildew.															
<i>Populus Poplar</i>	1 1/4'b	1'b	6'b	5'b	4'b	3'b	6'w	5'w	4'w	3'w	2'w				
<i>angustifolia</i> (<i>Narrowleaf Poplar</i>) ZONE 3 Ht. 60' Spread 30-40' Common name is derived from its narrow willow-like leaves. Form is pyramidal with ascending branches. Juvenile bark is green turning to gray with age. Tends to sucker. Prefers moist conditions. Does well in high altitudes up to 10,000 ft.															
<i>nigra</i> 'Theves' ZONE 2-8 Ht. 50-60' Spread 10-15' Dense columnar form. Glossy foliage. Fast growing. Used for windbreaks. Longer lived than Lombardy. Tends to be broader and possibly more resistant to canker than Lombardy.															
<i>tremula</i> 'Erecta' (<i>Swedish Columnar Aspen</i>) ZONE 2-8 Ht. 30' Spread 10-15' Small, narrow columnar tree. Dark green leaves with grey underneath. Golden-red fall color. Foliage trembles in the slightest breeze. Dense vertical branching. Prefers acidic soils. Interesting accent plant. Seedless.															
<i>tremuloides</i> ZONE 1-6 Ht. 40-50' Spread 20-30' Best known for its white bark and its deep green foliage that quakes in the breeze. Has a beautiful golden yellow fall color. Good for attracting birds and naturalizing an area. Grows best in full sun and is tolerant of many soils from rocky to sandy loams.															
<i>x acuminata</i> (<i>Lanceleaf Cottonwood</i>) ZONE 3-8 Ht. 40-45' Spread 20-25' Upright pyramidal form. Long 4" glossy dark-green leaves are aromatic when emerging. Yellow fall color. Fast grower. Seedless.															
<i>x canadensis</i> 'Nor Easter' ZONE 4-8 Ht. 75' Spread 40-50' Moderately ovate. Seedless sterile female. Good disease resistance. Fast growing. Good for screens. Stout branches. Yellow fall color.															
<i>Prunus Flowering Cherry</i>	1 1/4'b	1'b	7'b	6'b	5'b	4'b									
<i>Accolade</i> ZONE 4-8 Height & Spread 20-25' Horizontal spreading branches. Semi-double 1 1/2" early pink blossoms in large drooping clusters before the leaves appear. Hardy. Good street tree. Fruitless cultivar.															



CENTER GLOW®



TREMULA ERECTA

VIRUS CERTIFIED

Prunus continued on next page...

Prunus Flowering Cherry continued from previous page...

1 1/4"b 1"b 7'b 6'b 5'b 4'b



Akebono ZONE 6-8 Height & Spread 25' Rounded and spreading form. Early single soft pink blooms. Vigorous grower when young. Disease resistant. **VIRUS CERTIFIED**

Autumnalis ZONE 5-8 Ht. 20-25' Spread 15-20' Rounded form. Semi-double, deep pink in bud, opening to light pink and fading to almost white. Blooms in fall and spring in warm climates, thus its name. Young leaves are pale bronze to bronze green. **VIRUS CERTIFIED**

Columnar Sargent Rancho® ZONE 4-8 Ht. 20-30' Spread 8-10' Narrow, vase shaped form makes it great for street plantings and narrow spaces. Single deep pink clustered blooms. The foliage is an excellent shiny dark green in summer and changes to bronze or red in the fall. **VIRUS CERTIFIED**

4' STANDARD Hvy #1 #1 lt #2

Kwanzan ZONE 5-8 Height & Spread 15-20' Upright, spreading, vase shaped form. Double, deep rose-pink blooms 1 1/2 - 2" in diameter. Mid season bloomer. New foliage is bronzy and turns to orange-bronze in fall. **VIRUS CERTIFIED**

6' STANDARD Hvy #1 #1 lt #2

incisa Little Twist® cv. 'CarltonLT' ZONE 5 Height & Spread 8' A Prunus incisa (Fuji Cherry) selection with stems and shoots that zigzag offering a unique form that supports profuse, tightly clustered white bell-shaped flowers with pink centers. Leaves turn a rich maroon fall color. Grafted on a 3-4' standard. Perfect for small yards. Prefers full sun to part shade and is adaptable to various soil types. Carlton Plants introduction. Winner of the Best Tree/Conifer 2009 Farwest New Varieties Showcase. **VIRUS CERTIFIED**

SHRUB FORM AVAILABLE PG. 66

3' STANDARD Hvy #1 #1 lt #2

LITTLE TWIST®

Mount Fuji ZONE 6-8 Height & Spread 15-20' Horizontal, spreading form. Abundant pink buds open to large 2" semi-double, fragrant white blooms born in clusters. Small vigorous tree.

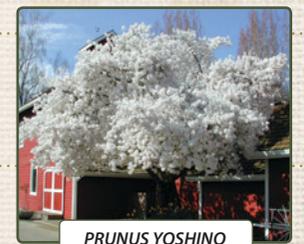
Okame ZONE 5-8 Ht. 20-25' Spread 10-15' Compact vertical form. Flowers at young age with an early spring display of single, bright carmine-pink long lasting blooms. Dark green fine textured foliage turns orange-red in fall. Tolerates partial shade. Good narrow street tree. **VIRUS CERTIFIED**

Royal Burgundy ZONE 5-8 Ht. 20-25' Spread 15-20' Broadly vase shaped habit with deep purple foliage. Double magenta-pink flowers are on red stems. Reddish-orange fall color. Slower growing purple form of Kwanzan. Frank Parks Nursery introduction. **VIRUS CERTIFIED**

4' STANDARD Hvy #1 #1 lt #2

Snow Goose ZONE 5-8 Height & Spread 15-20' Form is upright when young becoming wider with age. Blooms are single, pure white with yellow centers which appear after the leaves. Originally from Holland. A hybrid between incisa and serrulata. Very attractive small tree. **VIRUS CERTIFIED**

Yoshino ZONE 6-8 Height & Spread 25-30' Rounded, spreading, graceful, arching form. Single light pink blooms decorate light gray branches. Showy, early bloomer. Fragrant almond scent. Medium sized tree. **VIRUS CERTIFIED**



PRUNUS YOSHINO

OUR CATALOG AND AVAILABILITY IS ON OUR WEBSITE. IF YOU WISH TO VIEW OUR CATALOG WITH PRICES TYPE IN THE PASSWORD: bareroot

Prunus Weeping Flowering Cherry		5 1/2' STANDARD	Hvy Sel	Hvy	#1	#1 lt	#2	4' STANDARD	Hvy*	#1*	#1 lt*	#2*
<p><i>Pink Snow Showers</i>[™] cv. 'Pisnshzam' ZONE 5 Ht. 30' Spread 25-30' A mass of single, blushing pink pearl-toned flowers hold long for a beautiful showcase in spring. Flowers are followed by highly polished mint-green foliage that turns to a burnt gold in the fall. A Lake County Nursery 'ZAM' introduction.</p>												
<p><i>Snow Fountains</i>[®] cv. 'Snofozam' ZONE 5-8 Height & Spread 12-15' Semi-double snow white flowers. Graceful cascading branches. Orange fall color. Heat and drought tolerant. Smaller than other weeping cherries making it ideal for small or Japanese gardens. A Lake County Nursery 'ZAM' introduction. 4' one year grafts are excellent for containerizing. VIRUS CERTIFIED</p>		-UNDERCUT-										
<p><i>Snow Fountains</i>[®] cv. 'Snofozam' ZONE 5-8 Height & Spread 12-15' VIRUS CERTIFIED</p>		BUDEDDED - TOPPED AT 5' Hvy #1 #1 lt #2										
<p><i>Subhirtella</i> cv. 'Pendula Plena Rosea' ZONE 4-8 Height & Spread 12-15' Profuse, double pink flowers appear before the leaves. Blooms are 3/4-1" in diameter. Most popular of the weeping cherries. 4' one year grafts are excellent for containerizing. VIRUS CERTIFIED</p>		5 1/2' STANDARD	Hvy Sel	Hvy	#1	#1 lt	#2	4' STANDARD	Hvy*	#1*	#1 lt*	#2*
		-UNDERCUT-										
Prunus Cherry Plum or Myrobalan Plum		TOPPED AT 5'	1 1/4"b	1"b	7"b	6"b	AT 42"	1"b*	7"b*	6"b*	5"b*	4"b*
<p><i>Crimson Pointe</i>[®] cv. 'Cripozam' ZONE 4 Ht. 20' Spread 5-6' Dense, very narrow columnar form. Branches grow almost parallel to main trunk. Excellent for use as a street tree or for narrow areas. Can be grown in tree, clump, hedge and shrub form. White flowers with deep purple fruit. Rich merlot-burgundy foliage accents orange-bronze new growth as it emerges. Cold and heat tolerant. Carefree maintenance requiring no trimming or pruning to maintain its naturally symmetrical form. Full sun to partial shade. A Lake County Nursery 'ZAM' introduction. VIRUS CERTIFIED</p>												
<p><i>Krauter Vesuvius</i> ZONE 5-8 Height & Spread 20' Oval, upright form. Early fragrant single light pink blooms. Dense purple foliage, edible fruit. Heat tolerant. Does well in hot dry conditions. Similar to Thundercloud but more upright with slightly darker foliage. VIRUS CERTIFIED</p>												
<p><i>Newport</i> ZONE 3-8 Height & Spread 15-20' Upright spreading to broadly oval. Single light pink blooms. Purplish-red foliage. Vigorous and cold hardy. Sparse fruit. Probably the hardiest of the purple leafed varieties. Good for street tree plantings. Univ. of Minnesota introduction. VIRUS CERTIFIED</p>												
<p><i>Thundercloud</i> ZONE 5-8 Height & Spread 20' Upright spreading rounded form. Fragrant single soft pink blooms. Deep purple foliage through the summer. Sparse fruit. One of the best purple leaf plums. Often used in urban street plantings. VIRUS CERTIFIED</p>		-UNDERCUT-										
<p><i>x cistena (top grafted)</i> ZONE 3-8 Ht. 6-10' Spread 6-8' Single, fragrant light pink blooms. Purple foliage. Dark purple fruit. This dwarf plum is grafted on a Newport standard to allow it to be grown without having support. SHRUB FORM AVAILABLE PG. 67 VIRUS CERTIFIED</p>		4 1/2' STANDARD Hvy Sel Hvy #1 #1 lt										



PINK SNOW SHOWERS

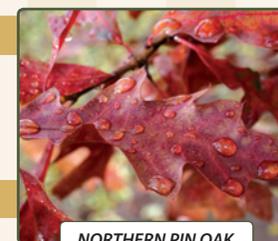
<i>Prunus padus</i> European Birdcherry		1"b	6'b	5'b											
<p><i>Merlot</i>™ cv. 'Drietree' ZONE 3-7 Ht. 25-30' Spread 15-20' Very uniform, upright growth habit. Retains deep burgundy color throughout the growing season. Strong grower with very consistent branching. More moderate growth rate than Summer Glow® with a lighter fruit set. A hardy purple leaf selection for the Western mountain states and other cold areas.</p>		-UNDERCUT-													
<i>Prunus virginiana</i> Common Chokecherry		1 1/4"b	1"b	6'b	5'b	4'b	5'lt.b	4'lt.b	5'w	4'w	3'w				
<p><i>Red Select</i> ZONE 2-8 Ht. 25' Spread 20' Small tree with pyramidal rounded form. New green foliage turns dark maroon as leaves mature. Less suckering. Long clusters of small white flowers in late April to early May. Edible 1/4" fruit is red turning to dark purple. Tolerates clay and high pH.</p> <p>SHRUB FORM AVAILABLE PG. 67 VIRUS CERTIFIED</p>		-UNDERCUT-											 <p>JACK®</p>		
<i>Pyrus calleryana</i> Callery Pear		1 1/4"b	1"b	7'b	6'b	5'b	4'b	3'b	5'lt.b*	4'lt.b*	5'w*	4'w*	3'w*		
<p><i>Aristocrat</i>® ZONE 4 Ht. 30-35' Spread 20-30' Pyramidal open form. White flowers. Waxy green foliage. Fall color is variable ranging from yellow to red. Wide branching angles make it more resistant to storm damage. Thornless and vigorous.</p> <p>VIRUS CERTIFIED</p>		-UNDERCUT-													
<p><i>Autumn Blaze</i> ZONE 4 Ht. 30-35' Spread 20-30' Upright form. White flowers. Young leaves are reddish tinged maturing to a dark green. Good lateral branching. Early bright crimson fall color. One of the earliest to drop leaves. Introduced by Dr. Westwood, Oregon State University.</p>		-UNDERCUT-													
<p><i>Cleveland Select</i> ZONE 4 Ht. 25-30' Spread 15-20' Upright pyramidal form much narrower than Bradford. Abundant white flowers. Glossy green foliage. Purple, reddish-orange fall color. Good for street tree plantings. Good fireblight resistance. Often referred to as 'Chanticleer'.</p> <p>VIRUS CERTIFIED</p>		-UNDERCUT-													
<p><i>Jack</i>® cv. 'Jaczam' ZONE 4 Ht. 16' Spread 10' A small tree with a compact upright oval growth habit. Has dark green foliage that changes to yellow in fall. This is a flowering pear, so in spring it exhibits showy white flowers. Grows in full sun and tolerates drought. Highly resistant to blight fire. Lake County Nursery, 'ZAM' introduction.</p>		-UNDERCUT-													
<p><i>Red Spire</i> ZONE 5-8 Ht. 30-35' Spread 20-30' Dense pyramidal form. Large white flowers. Glossy green foliage. Yellow to red fall color. Very adaptable to city conditions.</p> <p>VIRUS CERTIFIED</p>		-UNDERCUT-													
<p><i>Trinity</i>® ZONE 4-8 Height & Spread 30' Tight round crown. Glossy green leaves turn orange to red in fall. Profuse single white blooms. Negligible fruit set. Withstands snow and ice storms better than Bradford. Introduced by Handy Nursery.</p> <p>VIRUS CERTIFIED</p>		-UNDERCUT-											 <p>TRINITY®</p>		
<i>Pyrus fauriei</i> Pea Pear		6'b	5'b	4'b	3'b										
<p><i>Korean Sun</i>™ cv. 'Westwood' ZONE 4-8 Height & Spread 15-20' Compact rounded form. Seed collected from Korea in 1965. A much smaller, shorter and more rounded tree than any of the Calleryana varieties. Hardy. Selected for its outstanding red fall color. Carlton Plants introduction.</p> <p>VIRUS CERTIFIED</p>		-UNDERCUT-													
<i>Pyrus Multi-Stem Pear</i>		4'	3'	2'	18"										
<p><i>Cleveland Select</i> ZONE 4 Ht. 25-30' Spread 15-20'</p> <p>VIRUS CERTIFIED</p>		-UNDERCUT-													

QUALITY, PERFORMANCE, VALUE AND CONSISTENCY. IT'S IN THE DETAILS....

	1 1/4'b	1"b	6'b	5'b	4'b	3'b								
Quercus acutissima Sawtooth Oak														
<i>Sawtooth Oak</i> ZONE 5-9 Ht. 35-45' Spread 30-35' Wide spreading, broadly pyramidal. Narrow chestnut-like leaves. Clean-foliaged shade or lawn tree. Bark becomes furrowed with age. Tolerant of heat and wide soil ranges.														
	-UNDERCUT-													
Quercus alba White Oak														
<i>White Oak</i> Zone 3-9 Height & Spread 60-70' Pyramidal form when young turning globular. Often wider than tall with age. Glossy leaves with white undersides turn burgundy-red in fall. Native to Eastern and midwestern United States. Disease resistant. Drought tolerant but intolerant of flooding. Salt resistant.														
	-UNDERCUT-													
Quercus bicolor Swamp White Oak														
<i>Swamp White Oak</i> ZONE 4-8 Ht. 50-60' Spread 30-40' Broad open form. Leaves are dark green and white underneath. Yellow to red fall color. Distinct flaky gray-brown bark. Excellent drought resistance and yet thrives in wet areas. Prefers moist acidic soils. Easy variety to transplant. Wood is used commercially.														
	-UNDERCUT-													
Quercus coccinea Scarlet Oak														
<i>Scarlet Oak</i> ZONE 4-9 Ht. 50-60' Spread 30-40' Upright spreading, open, broadly oval form. Growth habit is similar to Pin Oak when young, but becomes more rounded and open at maturity. Displays the best and longest period of brilliant scarlet fall color. Somewhat difficult to transplant.														
	-UNDERCUT-													
Quercus ellipsoidalis Northern Pin Oak														
<i>Northern Pin Oak</i> ZONE 4-7 Ht. 50-75' Spread 30-40' Oval form. Very slow growing. Fuzzy pink new leaves turn to glossy, bright green through summer. Fall color is scarlet red. Elliptic, chestnut brown acorns. Salt, drought and heat resistant but intolerant of flooding conditions. Native to alkaline soils.														
	-UNDERCUT-													
Quercus gambelii Gambel Oak														
<i>Gambel Oak</i> ZONE 3-8 Ht. 15-30' Spread 12-20' Leaves are leathery, obovate, deeply lobed and glossy green. Dense hairs underneath. Fall color is mixed yellow, orange and red. Grows native as a small tree or large shrub. Tolerates dry conditions and alkaline soils. Full sun. MULTI-STEM FORM														
	-UNDERCUT-													
Quercus imbricaria Shingle Oak														
<i>Shingle Oak</i> ZONE 4-8 Ht. 50-60' Spread 20-30' Pyramidal to upright oval form when young turning rounded with age. Red tinged new green leaves turn russet-red in fall. Prefers moist, rich, deep, well drained acidic soil. Transplants well. Once popular for shingle making. Salt resistant.														
	-UNDERCUT-													
Quercus macrocarpa Bur Oak														
<i>Bur Oak</i> ZONE 3-8 Ht. 60-70' Spread 30-40' Pyramidal to oval in youth. Develops a massive trunk and broad crown. Yellow fall colors with huge fringed acorns. Somewhat difficult to transplant. Excellent park tree. Tolerant of most soils. Withstands drought, wind, extreme cold, pollution and salt.														
	-UNDERCUT-													
Quercus muehlenbergii Chinkapin Oak														
<i>Chinkapin Oak</i> ZONE 5-7 Height & Spread 40-50' Open rounded form. Dark green sharp toothed leaves have a white cast underneath. Yellow-orange fall color. Ash-gray colored bark. Very tolerant of alkaline soils. Native to Central Midwest and Eastern states.														
	-UNDERCUT-													



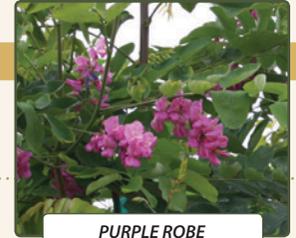
SCARLET OAK



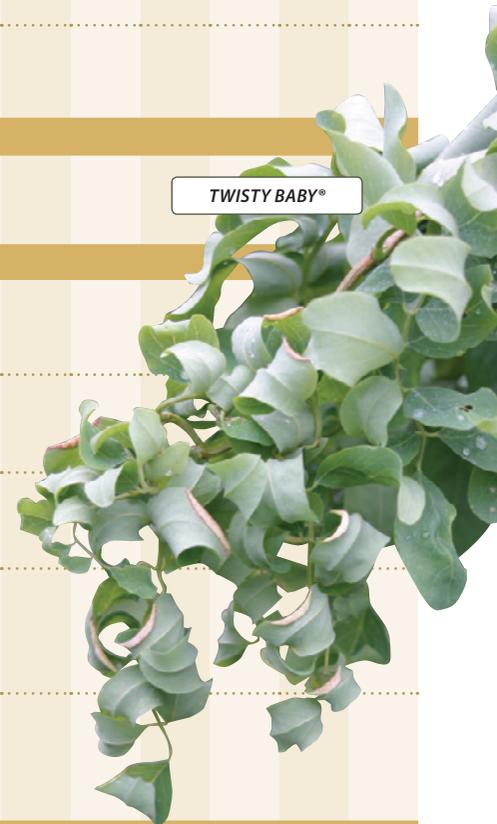
NORTHERN PIN OAK

QUALITY, PERFORMANCE, VALUE AND CONSISTENCY. IT'S IN THE DETAILS....

Ribes sanguineum Winter Currant - TREE FORM -		6'b	5'b	4'b					
<i>King Edward VII (Red Flowering Currant)</i> ZONE 5-7 Ht. 6-8' Spread 4-6' Crimson-red, pendulous racemes turn to blue-black berries. Blooms April to May attracting hummingbirds. Attractive yellow fall color. Showy accent plant as a tree form. Prefers moist, well drained soil. Sun to partial shade.									
SHRUB FORM AVAILABLE PG. 68									
Robinia pseudoacacia Black or Common Locust		BASE BUDDED	1 1/4'b	1'b	6'b	5'b	1"lt.b	6'lt.b	5'lt.b
<i>Frisia</i> ZONE 4 Ht. 40-50' Spread 20-30' Open upright habit. Retains golden yellow colors throughout growing season. Grows in tough areas where Sunburst Honeylocust will not. Red-brown thorns.									
<i>Purple Robe</i> ZONE 3-8 Ht. 35-40' Spread 20-30' Compact, rounded habit. Long pendulous flower clusters are magenta-pink and long lasting. Attractive bronzy-red new foliage. Drought tolerant, popular variety.									
<i>Twisty Baby™ cv. 'Lace Lady'</i> (P.P. 9771)(Tortuosa) ZONE 4 Height & Spread 15-20' CONTORTED TRUNK WHEN BUDDED									
		-UNDERCUT-							
<i>Twisty Baby™ cv. 'Lace Lady'</i> (P.P. 9771)(Tortuosa) ZONE 4 Height & Spread 15-20' Small tree grafted on a 4' std. Slow growing, interesting twisted and contorted branches. Thinly set white flowers on small, drooping racemes. STRAIGHT TRUNK WHEN GRAFTED ON A STANDARD.		4'STANDARD	Hvy Sel	Hvy	#1	#1 lt			
Salix Willow		11/2'b	11/4'b	1'b	6'b	5'b	4'b		
<i>Corkscrew (matsudana 'Tortuosa')</i> ZONE 4-8 Ht. 30-35' Spread 15-20' Wide oval shape. Twisted spiral branches. Yellow fall color. Fast growing. Salt tolerant.									
<i>Globe (matsudana 'Umbraculifera')</i> ZONE 5-8 Height & Spread 20' Compact, round head. Tendency to remain rounded with age. Tolerant of poorer, drier soils.									
<i>Green Weeping (babylonica)</i> ZONE 4-8 Ht. 30-50' Spread 20-30' Broad, round head. Dense and weeping. Yellow fall color. Thrives in wet soil conditions.									
<i>Niobe Golden (alba 'Tristis')</i> ZONE 3-9 Ht. 50-70' Spread 20-30' Round head. Weeping form, yellow bark on young branches. One of the first to leaf out and last to drop leaves. Yellow fall color. Fast growing. Very hardy and attractive. Salt tolerant.									
<i>x Prairie Cascade</i> ZONE 3-8 Height & Spread 35-45' Hardy cross with glossy green foliage and weeping yellow branches. This variety has the hardiness and glossy green foliage of the Laurel Willow while inheriting the golden bark and weeping habit of the Niobe.									
Salix Top-grafted Willows		5'STANDARD	Hvy	#1	#1 lt	#2			
<i>caprea 'Pendula' (Weeping Pussy Willow)</i> ZONE 3-8 Ht. 8-10' Spread 6-8' Umbrella shaped weeping form. Pendulous branches. Excellent spring color with fuzzy gray catkins.									



PURPLE ROBE



TWISTY BABY®

Salix continued on next page...

Salix Top-grafted Willows continued from previous page...

4' STANDARD Hvy #1 #1 lt. #2

x integra 'Hakuro Nishiki' (Dappled Willow) ZONE 3-7 Height & Spread 6-8' New growth is a glossy bright pink which unfolds into variegated slender leaves dappled with colors of pink, white and green. This variety is top-grafted making it a striking, unique accent plant.

SHRUB FORM AVAILABLE PG. 70



HAKURO NISHIKI

Sophora japonica (Styphnolobium) Japanese Pagoda Tree

1 1/4'b 1'b 6'b 5'b

Millstone™ cv. 'Halka' ZONE 5 Ht. 45' Spread 35' Upright spreading form with a rounded crown. Bright to medium green foliage. Creamy white flowers born in clusters. Yellow fall color.

-UNDERCUT-

Sorbus aucuparia European Mountain Ash

1 1/4'b 1'b 6'b 5'b

Cardinal Royal® cv. 'Michred' (Cardinal Royal Mountain Ash) ZONE 2-8 Ht. 30-40' Spread 15-20' Improved Mountain Ash developed by Michigan State Univ. A straight growing trunk and uniform upright branching habit characterize this cultivar. Late spring white blooms turn to 1/4" red fruit. Leaves are dark green on top with a silvery underside, turning to orange-red in autumn. Needs good drainage.

-UNDERCUT-

Styrax japonicus Japanese Snowbell

1 1/4'b 1'b 6'b 5'b 4'b 3'b

Emerald Pagoda ZONE 6-8 Ht. 30' Spread 35-40' Distinctly pyramidal growth. Very fragrant large flower. Deep glossy green leaves. Red-yellow fall color. Beautiful foliage, incredible blooms and gray-brown bark. Develops cinnamon-orange grooves with age. Tolerates neutral to acidic soil. Moist, well-drained soil. Heat tolerant variety.

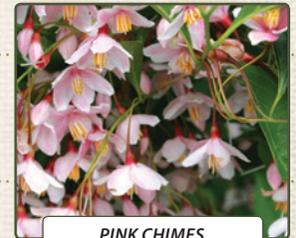
-UNDERCUT-

Japanese Snowbell ZONE 5-8 Ht. 20-30' Spread 12-15' Small, rounded habit with horizontal branches. Dainty bell-shaped flowers fragrant in May/June. Leaves are perched like butterflies on the stems so the pendulous flowers are not hidden. Suitable for most any situation. Excellent patio tree.

-UNDERCUT-

'Pink Chimes' ZONE 5 Ht. 20-30' Spread 20' Similar to Halesia but with pale pink bell-shaped flowers that appear in spring. Mildly fragrant. This upright small tree likes full sun to partial shade and moist soil.

-UNDERCUT-



PINK CHIMES

Styrax obassia Fragrant Snowbell

1'b 6'b 5'b 4'b 3'b

Fragrant Snowbell ZONE 5-8 Ht. 20-30' Spread 15-25' A small upright tree with a rounded crown. Bell-shaped, fragrant, white flowers in May and June. Leaves are large and velvety, persist well into late autumn. Good in shrub borders or as an understory tree for a woodland garden. Nice as a lawn specimen. No serious insect or disease problems.

-UNDERCUT-



LIMITED AVAILABILITY

Syringa Bailbelle

- TREE FORM - 3 1/2' STANDARD Hvy #1 #1 lt. #2

Tinkerbelle® cv. 'Bailbelle' (P.P. 12294) ZONE 3-7 Ht. 5-6' Spread 5-7' Compact upright form. Tinkerbelle has a pleasant spicy fragrance and wine-red flower buds that open to dark pink. Prefers a well drained sunny spot. Developed and selected by Neal Holland of Sheyenne Gardens in North Dakota and introduced by Bailey Nurseries. SHRUB FORM AVAILABLE PG. 72

Syringa laciniata Cutleaf Lilac

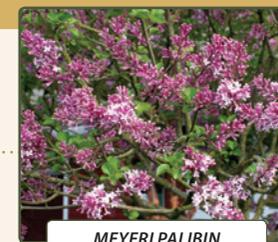
- TREE FORM - 3 1/2' STANDARD Hvy #1 #1 lt. #2

Cutleaf Lilac ZONE 4-8 Height & Spread 6-8' Unique, dark green fine-cut leaves. Delicate texture. Slender arching branches. Abundant, fragrant lavender-pink blooms. Good mildew resistant cultivar. Very heat tolerant. Does well in dry soil conditions.

Syringa Lilac

- TREE FORM - 3 1/2' STANDARD Hvy #1 #1 lt #2

meyeri 'Palibin' (Dwarf Korean Lilac) ZONE 3-7 Ht. 4-8' Spread 2-4' Dainty, compact form grafted to a 3 1/2' standard. Covered with violet-purple flowers late spring to early summer. Flowers before leaves are fully developed. Excellent patio tree. **SHRUB FORM AVAILABLE PG. 72**



MEYERI PALIBIN

patula 'Miss Kim' (Miss Kim Lilac) ZONE 4-7 Height & Spread 3-5' Fragrant lilac-pink flowers late after all others have finished. Hardy dwarf lilac. Great choice for small spaces. Burgundy-red fall color. Prefers moist well drained soil. Will adapt to dry periods. Full sun. **SHRUB FORM AVAILABLE PG. 72**

Syringa pekinensis Pekin Lilac

1'b 6'b 5'b 4'b

Summer Charm® (P.P. 8951) ZONE 5-7 Ht. 30' Spread 15-20' Impressive small creamy white fragrant single flowers with a mild honey scent. Rapid growing cultivar shows good disease resistance. The reddish-brown bark peels or flakes adding to the ornamental value and winter interest. Late season bloomer.

Syringa reticulata Japanese Tree Lilac

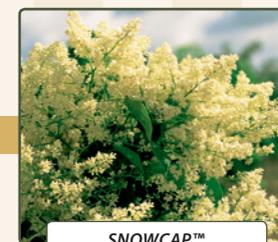
1'b 6'b 5'b 4'b 3'b 6'lt.b 5'lt.b 4'lt.b 3'lt.b

reticulata ZONE 3-7 Ht. 25' Spread 20' Oval to rounded small tree. Showy white flowers with a delicate fragrance are borne in early to mid June. One of the most trouble-free lilacs, this small tree would make a great focal point in any landscape. Prefers full sun.

Ivory Pillar™ cv. 'Willamette' ZONE 3-8 Ht. 20-25' Spread 10-15' Clearly upright and more narrow than other reticulatas. Selected specifically for its pyramidal form. Dark green leaves and large white flower spikes. A Carlton Plants selection.

Ivory Silk ZONE 3-8 Ht. 20-25' Spread 15' Compact, round, dense form. Deep green foliage. Heavy white blooms mid-summer. Drought resistant. **SHRUB FORM AVAILABLE PG. 72**

Snowcap™ cv. 'Elliott' ZONE 3-8 Ht. 15-20' Spread 10-12' A Carlton selection discovered in our nearby capital city of Salem, OR. Abundant white flower spikes. Its unique, uniform branching habit and thick, dark leaves are outstanding. More compact than Ivory Silk. Tolerant of urban conditions.



SNOWCAP™

Taxodium ascendens Pond Cypress

5'b 4'b 3'b

Debonair® cv. 'Morris' ZONE 4 Ht. 50-60' Spread 10-15' Hardier than the species with very fine, feathery textured medium green foliage on weeping branches that turns a rich orange in autumn. Upright habit. Can withstand drought, total immersion, hard winters, hot summers and intense winds. Thrives in the sun, but is shade tolerant. Deer resistant. Introduced by Earl Cully and the Morris Arboretum.

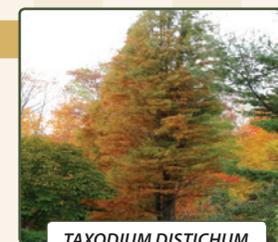
AVAILABLE 2016

Taxodium distichum Baldcypress

7'b 6'b 5'b 4'b

Baldcypress ZONE 4b Ht. 50-70' Spread 30' Native to the Atlantic and gulf coastal plains, lower Mississippi Valley and the bottom lands of large southern rivers. A large deciduous conifer having a pyramidal habit. Medium growth rate and very long lived. Fine textured foliage much like Metasequoia. Does great when planted in wet soils of muck or clay where moisture is abundant. A very mature tree can reach 100-120' in height.

-UNDERCUT-



TAXODIUM DISTICHUM

3' B AND SMALLER AND 4' WHIPS AND SMALLER, ORDER IN MULTIPLES OF 10.
4' B AND LARGER & ALL FRUIT TREES CAN BE ORDERED IN MULTIPLES OF 5.

Taxodium continued on next page...

<i>Taxodium distichum</i> Baldcypress continued from previous page...	Hvy	#1	#1 lt.	#2		
Falling Waters' ZONE 4 Ht. 15-25' Spread 10-15' A true weeping cultivar that distinguishes itself with a loose growing central leader growing quite upright while its branches grow straight down. A graceful tree with very fine and soft foliage. Fall color ranges from orange to bronze. Tolerates both wet and dry conditions.						
<i>Taxodium distichum</i> Baldcypress	6'b	5'b	4'b	3'b		
Shawnee Brave™ cv. 'Mickelson' ZONE 5-11 Ht. 55' Spread 30' This majestic tree is very narrowly pyramidal in form. Branching is much fuller than the species. Delicate and feathery foliage is deep sage-green in color. Ornate, dark purple seed capsules adorn the tree in the fall. Fall color is a bronze-orange. A Heritage® Trees, Inc. introduction.						
<i>Tilia americana</i> American Linden	1 1/4"b	1"b	6'b	5'b		
American Sentry™ cv. 'McK Sentry' ZONE 3 Ht. 45' Spread 30' A native American basswood, this hardy cultivar is pyramidal and symmetrical in shape. Medium green foliage. Highly resistant to Japanese beetle. Yellow fall color. McKay Nursery introduction.						
Redmond ZONE 3-8 Ht. 65-75' Spread 30-35' Tight pyramidal, upright form. Enormous glossy green heart shaped leaves. Clusters of small, fragrant flowers in summer produce rounded fruits. Bright yellow fall color. Needs good drainage and regular watering. Handsome street or lawn tree.						
<i>Tilia cordata</i> Littleleaf Linden	1"b	6'b	5'b	4'b	5'lt.b	4'lt.b
Corinthian® cv. 'Corzam' ZONE 3 Ht. 45' Spread 15' Uniformly spaced branching with a straight central leader creates a formal shape. Glossy leaves are smaller and thicker than species. Ivory flowers, yellow fall color. A Lake County Nursery 'ZAM' introduction.						
Greenspire® ZONE 3-8 Ht. 40-50' Spread 15-25' Dense, narrow, oval form. Small fragrant flowers in June - July. Strong, uniform upright habit. Extremely straight trunk and central leader. Fast growing. Cinnamon colored bark. Yellow fall color. Widely used street tree. Does well in difficult conditions.						
<i>Tilia tomentosa</i> Silver Linden	1 1/2"b	1 1/4"b	1"b	6'b	5'b	
Sterling® ZONE 4-7 Ht. 40-60' Spread 30' A heavy, broad, pyramidal crown. Outstanding dark green foliage above with striking silver beneath. Fragrant yellow blooms late summer. Yellow fall color. Adapts to dry conditions. Resistant to Japanese beetle and Gypsy moth. Disease resistant.						
Szeleste ZONE 6 Ht. 65-80' Spread 35-40' Strong, upright pyramidal form (more narrow than Sterling). Dark green leaves with intensely white and felt-like undersides which turn yellow and persist into the fall. Strongly aromatic flowers appear in the summer. Nice street tree that holds its relatively narrow manner of growth as it matures. Fairly unsusceptible to aphids and Japanese beetles.						



AMERICAN SENTRY™



STERLING

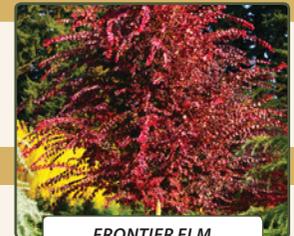


SZELESTE



3' B AND SMALLER AND 4' WHIPS AND SMALLER, ORDER IN MULTIPLES OF 10.
4' B AND LARGER & ALL FRUIT TREES CAN BE ORDERED IN MULTIPLES OF 5.

<i>Tilia x mongolica</i>		1 1/4"b	1"b	6'b	5'b					
<i>Harvest Gold</i> (P.P. 12232) ZONE 3-6 Ht. 30-40' Spread 25-30' Upright growth habit. An open pollinated seedling from Manchurian and Mongolian linden. Exfoliating bark and glossy foliage with yellow fall color. High resistance to sun scald and leaf spot. Its glossy summer foliage changes to an unusually bright gold in the fall.										
<i>Ulmus americana</i>		1 1/4"b	1"b	6'b	1"b*	6'b*	5'b*	1"lt.b*	6"lt.b*	5"lt.b*
<i>'Jefferson'</i> ZONE 4-7 Ht. 60-70' Spread 50' Umbrella shaped crown with dark green leaves that emerge early in spring and turn yellow in the fall. An outstanding level of Dutch elm disease tolerance. Adaptable to a wide variety of soil conditions and pH. Tolerates numerous environmental stresses including salts, drought and air pollution. A U.S. National Arboretum Plant Introduction.	-UNDERCUT-									
<i>'Princeton'</i> ZONE 3-7 Ht. 60-80' Spread 40-60' Upright growth habit. Highly resistant to Dutch elm disease. Fast growing, graceful, symmetrical branching. Introduced by Princeton Nursery.										
<i>Ulmus carpinifolia x parvifolia Smoothleaf Elm</i>		1"b*	6'b*	5'b*	4'b*	3'b*				
<i>'Frontier'</i> ZONE 4-7 Ht. 25' Spread 15' Glossy dark green foliage turns burgundy in the fall, an unusual trait for elms. Compact form, broad oval shape and Dutch elm disease resistance are attributes of this species.										
<i>Ulmus glabra Scotch Elm</i>	BASE BUD	Hvy	#1	#1 lt	#2					
<i>'Camperdownii'</i> ZONE 4-7 Ht. 15-20' Spread 15-20' Round-headed pendulous outline. Weeping habit with large, deep green leaves which create a dense canopy. Zig-zag branching habit. Interesting bright lime-green winged seeds eventually turn to tan. A seedling discovered at Camperdown House near Dundee, Scotland.										
<i>Ulmus japonica x wilsoniana</i>		1 1/4"b	1"b	6'b	5'b					
<i>x Accolade</i> ® cv. <i>'Morton'</i> ZONE 4-7 Ht. 70' Spread 40-50' Upright, spreading similar to American elm. Very good resistance to Dutch elm disease, elm leaf beetles and leaf miners. Glossy dark green foliage turns golden yellow. Chicagoland Grows® introduction.	-UNDERCUT-									
<i>Ulmus japonica x pumila</i>		1 1/4"b	1"b*	6'b*	5'b*	4'b*				
<i>x 'New Horizon'</i> ZONE 3 Ht. 50' Spread 25' New Horizon has coarse textured dark green leaves similar to American elms. Wonderful for a shade tree, it is densely leafed with a compact appearance and an upright growth habit. Rusty-red foliage in fall.										
<i>Ulmus x Complex Hybrids</i>		1 1/4"b*	1"b*	6'b*	5'b*	4'b*	1"lt.b*	6"lt.b*	5"lt.b*	
<i>x 'Patriot'</i> ZONE 4 Ht. 50' Spread 35' Upright, narrow vase shaped tree. Dark green summer foliage turning yellow in the fall. Tolerant of Dutch Elm disease.										
<i>x Triumph</i> ™ cv. <i>'Morton Glossy'</i> ZONE 4-7 Ht. 55' Spread 40-50' Upright, oval. Very tolerant to Dutch elm disease and Phloem Necrosis. Glossy dark green foliage turning yellow in the fall. A Chicagoland Grows® introduction.										



FRONTIER ELM



NEW HORIZON



COMMON SNOWBALL TREE

Viburnum - TREE FORM - 6'b 5'b 4'b 3'b

lentago (Nannyberry *Viburnum*) ZONE 2-8 Height & Spread 15-20' Small strong growing tree with upright habit. Matures to open form. Creamy white flowers turn to blue-black berries attracting birds. Long, pointed dark green leaves turn purplish-red in fall. **SHRUB FORM AVAILABLE PG. 74**

opulus 'Sterile' (Common Snowball Tree) ZONE 3-8 Ht. 8-10' Spread 6-8' Popular old fashioned variety. Bright green leaves turn vibrant red in fall. Pure white sterile true snowball shaped flower clusters hold on for a lengthy spring to summer period. No fruits. Prefers full sun. **SHRUB FORM AVAILABLE PG. 74**

Wisteria American Wisteria Hvy #1 #1 lt #2

frutescens 'Amethyst Falls' ZONE 5-9 Ht. 20-30' Spread 20' Beautiful, fragrant lavender blue flowers. Blooms are later than *sinensis* and *floribunda* varieties and flowers after the foliage has developed. This is a handsome plant in leaf and flower. **VINE FORM AVAILABLE PG. 79**

macrostachys 'Aunt Dee' (Aunt Dee Wisteria) ZONE 4-8 Height & Spread 15-20' Light lilac-purple, 7-12" fragrant flower clusters late May-June. Longer and later flowering period. Blooms are borne on current seasons shoots. Prefers fertile, well drained soil and full sun. Tree form staked and topped at 5'. **VINE FORM AVAILABLE PG. 79**



Zelkova serrata Japanese Zelkova 1 1/4"b 1"b 6'b 5'b

Green Vase® ZONE 4-8 Ht. 60-70' Spread 40-50' Vase shaped form. Bright green serrated foliage. Orange-brown to bronze-red fall color. Fast growing, producing a taller more graceful tree than 'Village Green™'. Full sun to partial shade. Tolerant of city conditions. Princeton Nursery introduction.

'*Musashino*' ZONE 5-9 Ht. 45-50' Spread 15-20' Introduced in U.S. in 1999. This Japanese selection has a very narrow, upright vase shape. Summer foliage is large, 2 to 5 inches long, medium-green. Fall foliage is rusty yellow. Short trunk is ideal for street tree use. Vigorous growth rate, adaptable to soils, pest resistant and drought tolerant.

Village Green™ ZONE 4-8 Ht. 50-60' Spread 25-30' Spreading vase-shaped form. Dark green serrated leaves. Rusty-red fall color. Vigorous growth. Prefers deep fertile, loamy soil but adapts easily to other types. Hardier than most seedlings. Tolerant of city conditions. Princeton Nursery introduction.

-UNDERCUT-

-UNDERCUT-

-UNDERCUT-

OUR CATALOG AND AVAILABILITY IS ON OUR WEBSITE. IF YOU WISH TO VIEW OUR CATALOG WITH PRICES TYPE IN THE PASSWORD: bareroot



FRUIT TREES & SMALL FRUITS

Carlton Plants offers a full range of fruit trees & small fruits — apples, apricots, blueberries, cherries, nectarines, peaches, pears, plums, and prunes in many varieties. Most of our fruit varieties are virus certified. We not only verify that our plants are disease resistant through our own heat treating laboratory,

but also participate in the state-administered certification program so that our customers are confident they have purchased a disease resistant plant. Virus certified rootstocks are also used and selected for their hardiness, compatibility and dwarfing characteristics for the homeowner.





Apple Semi-Dwarf

1^b 7/8^b 11/16^b 9/16^b

Cortland ZONE 4-6 Dark red with underlaid stripes. Crisp, tender, juicy flesh stays white after cutting. Good for salads, cider and cooking. Consistent vigorous heavy producer. Pollinate with Red McIntosh, Delicious or Red Jonathan. Winter hardy.

VIRUS CERTIFIED

RIPENS LATE SEPTEMBER

Gala ZONE 5-8 Red skin tinted with yellow streaks covers a spicy-sweet flavor. Ripens in August. You can almost taste the cinnamon in this crisp aromatic flavored apple. Medium size and bears at a young age. Very reliable pollinizer. Requires pollinizer, suggest Yellow Delicious.

VIRUS CERTIFIED

RIPENS MID-LATE AUGUST

Granny Smith ZONE 6-8 Dark green skin. Tart-sweet, crisp and juicy, keeps well. Good for eating, cooking and sauce. Annually productive. Needs long, hot growing season. Origin is Australia. Requires mid to late season pollinizer.

VIRUS CERTIFIED

RIPENS LATE OCTOBER



GRANNY SMITH

Haralred® ZONE 3-7 Dark pink-red. Juicy and firm with a sweet-tart flavor. A selection of Haralson that is earlier and sweeter. Fireblight resistant. Very hardy and dependable. Heavy producer. Good for eating, baking and freezing. Pollinate with mid-season variety. Bailey Nursery introduction.

VIRUS CERTIFIED

RIPENS LATE SEPTEMBER, EARLY OCTOBER

Honeycrisp™ ZONE 4-8 Large 3" Fluorescent-red apple having a sweet-tart flavor and delicious texture. This apple is said to have the best crunch. Good pollinizer, suggest Red Delicious or Snowdrift crab. Univ. of Minnesota introduction.

VIRUS CERTIFIED

RIPENS EARLY SEPTEMBER

Liberty ZONE 5-8 Red skin. Medium tart, high quality eating and cooking apple. Flesh crisp, juicy and sprightly. Early heavy bearer. Scab free and highly disease resistant. Requires pollinizer, suggest Lodi.

VIRUS CERTIFIED

RIPENS EARLY SEPTEMBER

Lodi ZONE 4-8 Yellow skin. Ripens in mid-July. Very early, crisp and tart. Good for pies and sauce. Keeps better than Yellow Transparent, is larger and firmer. Requires pollinizer, suggest Liberty.

VIRUS CERTIFIED

RIPENS LATE JULY

Red Delicious ZONE 5-7 Beautiful red dessert apple. Our Ryan red spur is compact and early coloring. Requires pollinizer, suggest Yellow Delicious. Mid to late-season bloom period.

VIRUS CERTIFIED

RIPENS LATE SEPTEMBER

Red Fuji ZONE 5-9 Red pin stripes over red. Cream colored, firm flesh. Ripens late October with Granny Smith. Very aromatic flavor. Stores well. Excellent for cooking and eating. Bears at a young age. Pollinate with any mid to late-season bloomer, suggest Granny Smith.

VIRUS CERTIFIED

RIPENS LATE OCTOBER

Red Jonathan ZONE 5-8 Deep red strain of Jonathan. Flesh is white, juicy, and tangy. Excellent for eating, cider and keeps well. Requires pollinizer, suggest Yellow Delicious.

VIRUS CERTIFIED

RIPENS LATE AUGUST

Red McIntosh ZONE 4-7 A red sport of McIntosh. Excellent flavor with white fragrant flesh. Very hardy. All purpose apple. Requires pollinizer, suggest Red Jonathan.

VIRUS CERTIFIED

RIPENS MID SEPTEMBER



ZESTAR!®

ALL FRUIT TREES CAN BE ORDERED IN MULTIPLES OF 5

Apple continued on next page...

QUALITY, PERFORMANCE, VALUE AND CONSISTENCY. IT'S IN THE DETAILS....



Apple continued from previous page...

1"b 7/8"b 11/16"b 9/16"b

Yellow Delicious (Golden Delicious) ZONE 5-8 Golden yellow skin. A world wide favorite all purpose apple. Sweet, full flavored, outstanding dessert qualities. Self-fertile. Good pollinizer. Mid to late blooming variety.

VIRUS CERTIFIED

RIPENS LATE SEPTEMBER

Zestar!® (P.P. 11367) ZONE 4-8 An early apple that is crisp and juicy. Best known for its excellent sweet tart flavor with a hint of brown sugar. It ripens in late August to late September (similar to Paulred). Apples remain crisp for 2-2½ months in refrigeration. Requires early pollinizer, suggest Lodi. A University of Minnesota introduction.

VIRUS CERTIFIED

RIPENS LATE AUGUST TO LATE SEPTEMBER



Apricot Semi-Dwarf

1"b 7/8"b 11/16"b 9/16"b

Chinese (Mormon) ZONE 5-7 Orange skin with red blush. Self-fertile, good pollinizer. Flesh is sweet, juicy and firm. Blooms late, recommended for late frost areas.

VIRUS CERTIFIED

RIPENS LATE JUNE, EARLY JULY

Moongold ZONE 4-7 Tough orange skin with yellow-orange flesh. Very good quality. Medium-sized spreading tree. Requires pollinizer, suggest Sungold. Developed by Univ. of Minnesota. Cold hardy and late blooming.

VIRUS CERTIFIED

RIPENS LATE JULY

Sungold ZONE 4-7 Tender golden skin, blushed orange. Mild, sweet flavor. Good fresh and for preserves. Rounded, medium-sized fruit. Freestone. Requires pollinizer, suggest Moongold. Medium-sized, upright tree.

VIRUS CERTIFIED

RIPENS EARLY AUGUST



SUNGOLD

Wenatchee Moorpark ZONE 5-7 Light yellow-orange skin. A large oval fruit that bears heavily. Excellent flavor. Good for drying and canning. Self-fertile. Good pollinizer for late varieties. Widely planted commercial variety. Late season.

VIRUS CERTIFIED

RIPENS EARLY JULY



Cherry Budded on Dwarf rootstock

11/4"b 1"b 7/8"b 11/16"b 9/16"b

Bing ZONE 6-8 Burgundy red skin and flesh. Flesh is large, firm, juicy and sweet. Excellent for eating and canning. Large fruit. Requires pollinizer, suggest Rainier or Black Tartarian. Mid-season variety.

VIRUS CERTIFIED

RIPENS LATE JUNE TO MID-JULY



BING

Black Tartarian ZONE 5-8 Bright purplish-black, sweet, juicy, medium-sized fruit. Vigorous, heavy bearer. Requires any sweet, early cherry pollinizer, suggest Bing. Excellent as a pollinizer.

VIRUS CERTIFIED

RIPENS EARLY JUNE

-UNDERCUT-

Evans Bali ZONE 3 Dark red 1" fruit. Technically known as sour or tart cherries. However if left on the tree long enough, the fruits develop their sugars and are sweet. The tart cherries are excellent for pies, sauces and jams. Vigorous growth. Known for its cold hardiness. Self-fertile.

VIRUS CERTIFIED

RIPENS MID AUGUST

Lapins ZONE 5-8 Dark-red, large, heart-shaped fruit, similar to Lambert. Firm with rich flavor. Excellent quality. Self-fertile sweet cherry. Cold hardy. Excellent pollinizer. Highly split resistant.

VIRUS CERTIFIED

RIPENS LATE SEASON, 2 WEEKS AFTER BING

-UNDERCUT-



ALL FRUIT TREES CAN BE ORDERED IN MULTIPLES OF 5

Cherry continued on next page...



Cherry Continued from previous page...

11/4^b 1^b 7/8^b 11/16^b 9/16^b

Meteor ZONE 4-7 Large, bright red fruit with yellow flesh. Good for pies, jellies and preserves. Self-fertile. Genetic dwarf. Does well in all climates. **VIRUS CERTIFIED**

RIPENS MID TO LATE JULY

Montmorency ZONE 5-7 Bright red, yellow flesh. Excellent tart pie cherry. Freezes well. Semi-dwarf, productive and hardy. Good branching habit. Self-fertile. **VIRUS CERTIFIED**

RIPENS EARLY JULY

North Star ZONE 4-7 Red skin with red flesh. Hardy dwarf tree, grows to 10' tall. Bears heavily. Resists brown rot. A meaty tart pie cherry. Self-fertile. **VIRUS CERTIFIED**

RIPENS EARLY JULY

Rainier ZONE 5-8 Golden yellow with red blush. Large, firm, juicy and sweet fruit. Vigorous, hardy and productive describes this variety. Resistant to cracking. Excellent pollinator for most sweet cherry varieties, suggest Bing. Developed by Washington State University. **VIRUS CERTIFIED**

RIPENS MID JULY

-UNDERCUT-

Stella ZONE 5-8 Black skin and flesh. Similar to Lambert. Sweet, juicy and moderately firm. Large sized fruit. Vigorous grower. Self-fertile. Good pollinizer. **VIRUS CERTIFIED**

RIPENS LATE JUNE TO EARLY JULY

-UNDERCUT-



Nectarine Semi-Dwarf

1^b 7/8^b 11/16^b 9/16^b

Fantasia ZONE 5-9 Bright yellow skin with 75% red blush. Freestone with smooth firm flesh. Low chilling requirements. Vigorous and productive. Self-fertile. **VIRUS CERTIFIED**

RIPENS MID AUGUST TO EARLY SEPTEMBER



Peach Semi-Dwarf

1^b 7/8^b 11/16^b 9/16^b

Frost[®] ZONE 5-8 Yellow skin. Medium to large fruit with good to excellent quality. Heavy producer. Self-fertile freestone. Leaf Curl resistant. Biringner Nursery introduction. **VIRUS CERTIFIED**

RIPENS MID AUGUST

Giant Elberta ZONE 5-7 Yellow with red blush. Large, high quality, fresh eating and canning peach. Freestone. A superior, early selection of Elberta. Self-fertile. Excellent pollinizer. **VIRUS CERTIFIED**

RIPENS LATE AUGUST TO EARLY SEPTEMBER

Hale Haven ZONE 5-7 Yellow skin. High quality. Heavy bearing. Freestone. Recommended for high dessert qualities. Bruise resistant. Disease resistant. Self-fertile. **VIRUS CERTIFIED**

RIPENS MID AUGUST

Polly ZONE 4-7 White skin with red blush. Freestone with white juicy flesh, excellent flavor and high quality. Self-fertile. Good home orchard variety, especially in colder climates. **VIRUS CERTIFIED**

RIPENS MID TO LATE AUGUST

Red Haven ZONE 5-8 Yellow skin with red blush. Flavorful, sweet, firm, fine grained flesh. For fresh eating, canning or freezing. Flesh resists browning. Freestone when fully ripe. Self-fertile. Resistant to bacterial leaf spot. **VIRUS CERTIFIED**

RIPENS EARLY JULY TO MID AUGUST

ALL FRUIT TREES CAN BE ORDERED IN MULTIPLES OF 5

Peach continued on next page...



QUALITY, PERFORMANCE, VALUE AND CONSISTENCY. IT'S IN THE DETAILS....



Peach continued from previous page...

1"b 7/8"b 11/16"b 9/16"b

Reliance ZONE 4-7 Yellow with red blush. Quality fair to good. Freestone. Medium to large fruit. Sweet mild flavor. Very hardy. Excellent peach for colder areas. Showy blooms provide ornamental value. Self-fertile.

VIRUS CERTIFIED

RIPENS MID AUGUST



Pear

1"b 7/8"b 11/16"b 9/16"b

Anjou ZONE 5-8 Medium to large fruit. Smooth, thin, yellow-green skin. White, sweet flesh. Stores well. Vigorous upright tree. Used for fresh eating. Ripens best off the tree. Suggest Bartlett as a pollinizer.

VIRUS CERTIFIED

RIPENS SEPTEMBER

Bartlett ZONE 5-9 Greenish-yellow skin. Flesh is sweet, juicy, firm, aromatic and fine textured. Large bell shape. Fresh eating and canning. Excellent dessert quality. Bears heavily and consistently. Mid-season bloomer. Suggest Anjou or Bosc as pollinizer.

VIRUS CERTIFIED

RIPENS LATE AUGUST TO EARLY SEPTEMBER

Luscious ZONE 4-7 Medium to small, bright yellow fruit with red blush. Excellent dessert pear. Very juicy and sweet. Good red fall leaf color. Very hardy. Not used as a pollinator. Suggest Anjou or Parker as pollinizer. Fireblight resistant. Introduced by South Dakota State University.

VIRUS CERTIFIED

RIPENS MID SEPTEMBER

Parker ZONE 4-7 Large, yellow fruit with red blush. White, fine grained flesh, tender and juicy. Very productive. Vigorous, upright form. Needs mid to late-season pollinizer, suggest Patten.

VIRUS CERTIFIED

RIPENS AUGUST

Patten ZONE 4 Large, tender and juicy. Good eating quality. Best picked green and ripened in a cool location. Especially hardy for northern Midwest. Late mid-season bloomer. Pollinizer for Parker.

VIRUS CERTIFIED

RIPENS MID SEPTEMBER

Summercrisp ZONE 4-7 Distinct red blush. Sweet and crisp. Harvest when green with red blush. Dependable annual producer. Fireblight free. Very hardy and productive. Early to mid-season bloomer. Suggest Parker as pollinizer. Minnesota Nurserymen's Research Foundation introduction.

VIRUS CERTIFIED

RIPENS MID AUGUST

Twentieth Century (Nijiseiki - Oriental-Japanese Sand Pear) ZONE 5-8 Yellow skin, white flesh, sweet, mild and juicy fruit. Best when tree ripened. Stores well. Partly self-fertile, suggest Bartlett as pollinizer.

VIRUS CERTIFIED

RIPENS MID SEPTEMBER

-UNDERCUT-



Plum Semi-Dwarf

1"b 7/8"b 11/16"b 9/16"b

Green Gage (Reine Claude) ZONE 5-8 Greenish-yellow skin. Flesh is tender, sweet, juicy, sprightly and rich in flavor. Use fresh, cooked, dried or canned. Medium-sized, semi-clingstone. Self-fertile.

VIRUS CERTIFIED

RIPENS MID AUGUST TO EARLY SEPTEMBER

Mount Royal ZONE 4-7 Dark purple skin, greenish-yellow flesh. Round, medium-sized, sweet, firm, and juicy. Good quality. Partially self-fertile. Suggest Stanley as pollinizer. Hardy. Very productive.

VIRUS CERTIFIED

RIPENS MID AUGUST

Santa Rosa ZONE 5-9 Red skin. Sweet-tart flavor. Fruit is firm, large and keeps well. Excellent fresh eating. Clingstone. Requires pollinizer, suggest Satsuma. Very productive.

VIRUS CERTIFIED

RIPENS LATE JULY



ALL FRUIT TREES CAN BE ORDERED IN MULTIPLES OF 5

Plum continued on next page...



Plum continued from previous page...

1"b 7/8"b 11/16"b 9/16"b

Satsuma ZONE 5-9 Deep red skin. Fruit is large, round, firm and juicy. Flavor is sweet and intense. Outstanding fresh or canned. Needs Santa Rosa as pollinizer.

VIRUS CERTIFIED

RIPENS MID AUGUST

Superior ZONE 4-7 Large red fruit, yellow flesh. Hardy, heavy producer. Bears at early age. Good quality. Suggest Stanley or Toka as pollinizer. Vigorous.

VIRUS CERTIFIED

RIPENS MID AUGUST

Toka ZONE 3-5 Red skin with firm yellow flesh. Rich and spicy flavor. Large, pointed fruit. Heavy producer. Requires pollinizer, suggest Superior. Hardy in cold climates. Excellent pollinator.

VIRUS CERTIFIED

RIPENS MID AUGUST



Prune Semi-Dwarf

1"b 7/8"b 11/16"b 9/16"b

Italian (Fellenberg) ZONE 5-8 Purple skin, freestone. Ripens mid-September. Medium-sized fruit. Flesh firm, sweet with some tartness. Good for fresh eating and drying. Good keeper. Crops consistent and heavy. Self-fertile.

VIRUS CERTIFIED

RIPENS EARLY SEPTEMBER

Stanley ZONE 5-8 Dark blue skin. Flesh yellow, juicy, tender, firm and sweet. Good for cooking and fresh eating. Bears heavily. Resistant to low temperatures. Freestone. Self-fertile. Good pollinizer.

VIRUS CERTIFIED

RIPENS EARLY SEPTEMBER



English Walnut *Juglans regia*

1^{3/4}Hwy 6'b 5'b

Carpathian ZONE 4-8 Height & Spread 60' Large, vigorous tree. Cold-hardy to -30° F. Self-fertile but suggest planting two trees for best results. Produces thin shelled, mild nuts.

-UNDERCUT-

RIPENS MID FALL

SMALL FRUIT



Blueberry

18" 12" 6"

'Jersey' ZONE 5-8 Height & Spread 6-8' An upright highbush blueberry with dainty, white, waxy flowers in spring followed by delicious blueberries in July. Good ornamental value with flowers, fruit, dark green foliage, stunning red fall leaf color and reddish stems in winter. Plant in full sun to partial shade. Attractive to birds and butterflies. Self-fertile.



LIMITED AVAILABILITY

'Pink Lemonade' ZONE 4-9 Height & Spread 4-5' A highbush blueberry with pink berries! Small pink flowers bloom in early spring followed by a sweet pink fruit. Pink Lemonade is a good landscape plant with year round interest. Fragrant blooms start in the spring and by May the first crop of berries will be ready. In the fall, foliage turns from green to yellow to gold and finishes off in reddish-orange. Stems are russet-red in the winter. Self-fertile.



LIMITED AVAILABILITY

'Sunshine Blue' ZONE 6-10 Height & Spread 3-4' A Southern highland blueberry variety. Nice white waxy bell-shaped flowers give way to dark blue delicious blueberries. Use in the landscape for year round interest of spring flowers, summer fruit, fall red leaf color and reddish stems in the winter. Makes a nice hedge. Attractive to wildlife. Self-fertile.

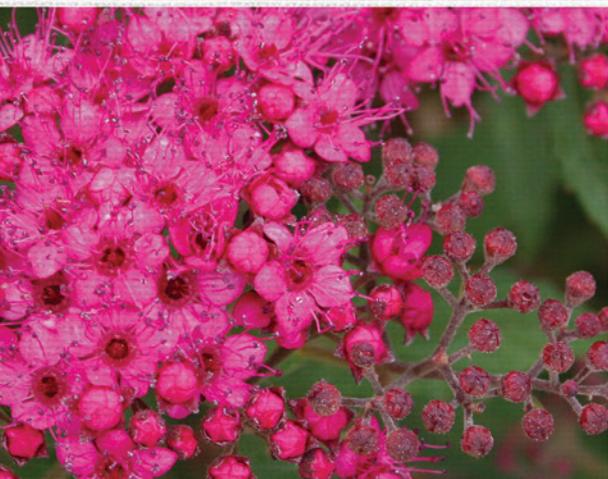


LIMITED AVAILABILITY

SHRUBS & ROSES

From the uncommon "Harry Lauders Walkingstick" to the more ordinary "Red Rugosa" rose, our generously graded line of hardy bareroot shrubs and roses provide a cost-effective alternative to your shrub needs. A wide selection of sizes and varieties are

available to meet your needs whether you are a grower, a landscaper or in retail. More than two hundred unique or traditional flowering and multi-purpose shrubs and roses offer color and benefits throughout the year.



Acer Maple

4' 3' 2' 18" 12" 6"

ginnala 'Bailey Compact' (Bailey Compact Amur Maple) ZONE 2-8 Ht. 6-8' Spread 4-6' Dense compact habit turning a brilliant scarlet fall color. Very hardy. Full or partial sun.

ginnala 'Flame' (Flame Amur Maple) ZONE 2-8 Height & Spread 15-20' Seedling selection desired for its reliable brilliant red fall color. Full or partial sun. **TREE FORM AVAILABLE PG.14**

Amelanchier Saskatoon Serviceberry

4' 3' 2' 18" 12"

alnifolia 'Regent' ZONE 2-7 Height & Spread 4-6' Compact habit. Large white flowers. Sweet black-purple fruit. Good for pies and making jelly. Gray-green foliage turning yellow-red in the fall.

canadensis (Shadblow) ZONE 3-8 Ht. 6-20' Spread 10-15' Tall upright suckering habit. White flowers bloom early before foliage. Purplish-black juicy edible berries in summer. Variable yellow-orange to red color in fall. Preferred for naturalistic and wetland plantings. Full sun to part shade.

Rainbow Pillar® cv 'Glennform' ZONE 4 Ht. 20' Spread 8-10' Dense upright form, green mildew resistant foliage. Small white flowers. In the autumn foliage turns a brilliant red, orange and yellow, giving the tree the appearance of a rainbow, hence the name. Excellent for hedging or screen planting. **TREE FORM AVAILABLE PG.17**

x grandiflora 'Autumn Brilliance'® ZONE 3-8 Ht. 20-25' Spread 15-20' Fast growing and heavily branched. Reaches mature size early. Brilliant red fall color. Clean summer foliage resistant to leaf spot. Edible fruit. Discov-Tree introduction. **TREE FORM AVAILABLE PG.18**

lamarckii ZONE 4-8 Ht. 20-30' Spread 10-15' Native of North America. White flowers appear in April. Edible fruits are 3/8", sweet in flavor, turning purple-black at maturity. New leaves are copper colored and silky. Fall color is bronze-orange. Prefers acidic to neutral soils.

Aronia Chokeberry

2' 18" 12" 6"

arbutifolia 'Brilliantissima' (Red Chokeberry) ZONE 4-9 Ht. 6-8' Spread 5-8' Upright open form. Fragrant white flowers in May on old wood. Glossy red persistent fruit attracts birds. Waxy dark green leaves turn crimson in fall. Good in mass plantings, borders, wetlands and coastal areas. Sun to part shade. Tolerates wet or dry conditions and many soil types.

melanocarpa 'Autumn Magic' ZONE 3-8 Height & Spread 3-5' Fruits are jet-black at maturity and tend to hang on well into winter. Foliage is glossy and thick with pubescence underneath. Fall color is bright red. New cultivar from the UBC Botanical Gardens.

melanocarpa elata (Glossy Black Chokeberry) ZONE 3-8 Height & Spread 6-10' This variety has sizable white flowers and large persistent black fruits. Leaves are glossy green turning to wine-red in fall. Adapts to many soil types. Full sun to partial shade.

Berberis thunbergii Barberry

24" 18" 15" 12" 9" 6"

atropurpurea (Japanese Redleaf Barberry) ZONE 4-8 Height & Spread 3-4' Deep reddish-purple foliage. Small yellow flowers. Thorny branches. Prefers well drained soils. Bright red berries and orange-red fall color. Best color when planted in full sun.



AUTUMN MAGIC

Berberis continued on next page...

QUALITY, PERFORMANCE, VALUE AND CONSISTENCY. IT'S IN THE DETAILS....

Berberis thunbergii *Barberry* continued from previous page...

24" 18" 15" 12" 9" 6"

cv. 'Concorde' ZONE 4-8 Ht. 2' Spread 3' Dense, rounded shrub with deep purple oval foliage that emerges as red in spring, and then later in the fall becomes a stunning scarlet. Does best in full sun to part shade and is very adaptable to both dry and moist growing conditions, but will not tolerate standing water. Can grow in a wide range of soil pH, and is tolerant of environmental salt and urban pollution. Deer do not particularly favor this shrub.



CONCORDE

'Crimson Pygmy' (*Crimson Pygmy Barberry*) ZONE 4-8 Height & Spread 1-2' Dwarf compact mounding red form. Good low barrier plant. Best color when planted in full sun.

GRADED BY WIDTH

'Golden Ring' (*Golden Ring Barberry*) ZONE 4-7 Ht. 3-4' Spread 2' Distinct gold margin on red-purple leaf. More compact than the species. Small yellow flowers turn to red fruit. Full sun.

Golden Ruby™ cv. 'Goruzam' (P.P. 16203) ZONE 4-8 Ht. 15" Spread 24" Slow growing compact plant with striking foliage. Fluorescent orange with leaves maturing to a burgundy maroon with a gold ring around the outer leaf margin in summer. Fall color is flame orange to brick red. Fruit set is sparse. Makes a great landscape plant for mass plantings, in the border, in a container or as a specimen. Low maintenance. Prefers full sun.

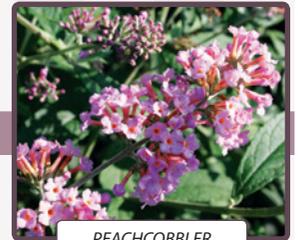


GOLDEN RING

'Helmond Pillar' (*Helmond Pillar Barberry*) ZONE 4-8 Ht. 4-5' Spread 2' A distinct upright barberry with reddish purple leaves. Good red autumn color. Full sun.

Lustre Green™ cv. 'Anderson' ZONE 4-8 Height & Spread 2-3' Shiny emerald green leaves in summer exploding to vibrant oranges and reds in the fall. Bright red berries persist through winter. Try planting under Acer griseum for a spectacular showy combination. Vase shape at maturity. Full or partial sun.

'Rose Glow' (*Rose Glow Barberry*) ZONE 4-8 Ht. 3-4' Spread 2-3' Compact vase shaped habit. New growth is an exceptional pink turning to mottled red creating seasonal color in spring and with each pruning. Needs full sun.



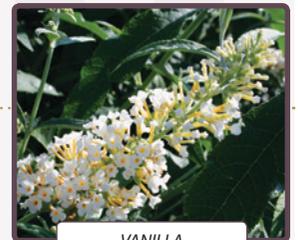
PEACHCOBBLER

Buddleia Seedless Butterfly Bush

#1 Med #2

x 'Asian Moon' ZONE 5-9 Ht. 6-10' Spread 4-6' Sterile Buddleia introduced by Dr. Jon Lindstrom of the University of Arkansas. Vigorous growing. Fragrant light purple flowers bloom continuously summer through fall on new growth. Attractive to butterflies, bees and hummingbirds. Prune annually in late winter. Prefers well drained loamy soils. Once established, tolerates heat, drought and city conditions. Full sun.

Flutterby Grande® Peach Cobbler cv. 'Podaras #5' (P.P. 22144) ZONE 5-10 Ht. 6-8' Spread 4-6' Beautiful peach colored blooms against silvery foliage. Wonderful fragrance with little to no pruning. Adaptable to a wide range of soil types and growing conditions. Heat and drought tolerant.



VANILLA

Flutterby Grande® Vanilla cv. 'Podaras #1' (P.P. 22080) ZONE 5-10 Ht. 6-8' Spread 4-6' Upright, dense growth habit with continuous creamy white blooms from early summer to frost. Aromatic gray-green foliage.



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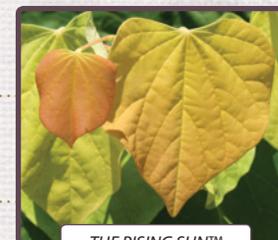
<i>Buxus</i> Boxwood	24"	18"	15"	12"	9"	6"
<p><i>sempervirens</i> 'Graham Blandy' (Graham Blandy Boxwood) ZONE 5-9 Ht. 8-10' Spread 2' Unique upright narrow columnar form. Dark green leaves. Vertical branching habit. Needs very little pruning. Excellent as a hedge or planted singly as a focal point.</p>						
<p>x 'Green Mountain' (Green Mountain Boxwood) ZONE 4-9 Ht. 4-5' Spread 3-4' Hybrid cross has the hardiness and compactness of koreana plus good leaf color of sempervirens. Upright pyramidal form.</p>						
<p>x 'Green Velvet' (Green Velvet Boxwood) ZONE 4-9 Height & Spread 2-3' Rounded form needs little shaping. Foliage soft textured with dark green, bluish cast. Remains colorfast throughout temperature extremes. Tolerant of a broad range of soil types. GRADED BY WIDTH</p>						
<i>Callicarpa</i> Beautyberry	2'	18"	12"	6"		
<p><i>bodinieri</i> 'Profusion' (Profusion Beautyberry) ZONE 6-8 Height & Spread 6-10' Noted for predictable dense clusters of violet-purple fruits appearing on young plants. New foliage is bronze to purple and fall color becomes a deep rose-purple. Considered a medium-sized shrub. Prefers full sun.</p>						
<p><i>dichotoma</i> (Purple Beautyberry) ZONE 5-8 Height & Spread 4-6' Abundant violet to metallic-purple berries persist into late winter. Berries appear on current years growth. Attracts birds. Massed group plantings are very showy. Tiny pink flowers are fairly insignificant but fragrant. Fall leaf color is yellow. Prefers well drained soil. Full sun to partial shade.</p>						
<p><i>dichotoma</i> cv. 'Duet' ZONE 5-8 Height & Spread 6'. A rounded shrub, this variegated beautyberry is well liked for its tolerance to full sun. This is the first stable variegated beautyberry, but the occasional green shoot may develop. Grows well in average soil of moderate fertility. Free of major disease and insect problems like many other Callicarpa. Released jointly by the U.S. National Arboretum and Tennessee Technological University.</p>						
<i>Cercis</i> Redbud	3'	2'	18"	12"		
<p><i>canadensis</i> (Eastern Redbud) ZONE 4 Ht. 15-30' Spread 12-15' This shrub has an upright growth habit. Full sun preferred. Northern seed source. TREE FORM AVAILABLE PG. 21</p>						
<p>'Appalachian Red' ZONE 4-9 Height & Spread 15-25' Tiny, fuchsia-pink to red pea like spring flowers bloom for 2-3 weeks. Attractive heart shaped leaves make this an excellent addition to the landscape as a specimen or in a small group. Low maintenance. Prefers full sun or partial shade in hot locations. Tolerates clay soil and deer. TREE FORM AVAILABLE PG. 21 MULTI-STEM FORM</p>						
<p>'Forest Pansy' ZONE 5-9 Ht. 20-30' Spread 15-25' Upright spreading form. New foliage is a deep purple fading to a more subdued color as the season progresses. Purple-pink flowers appear before leaves emerge. Darker than the species. TREE FORM AVAILABLE PG. 21 MULTI-STEM FORM</p>						
<p>'Royal White' ZONE 4 Ht. 20-30' Spread 20-25' A selection made by professor J.C. McDaniel of the University of Illinois. Selected for its outstanding and abundant flowers which are larger than 'Alba'. An excellent cold hardy form. TREE FORM AVAILABLE PG. 21 MULTI-STEM FORM</p>						
<p><i>The Rising Sun</i>™ cv. 'JN2' ZONE 5-8 Ht. 12-17' Spread 20' Used as a native ornamental shrub in the landscape. Exhibits an early springtime bloom of magenta flowers clustered up and down the branches, which gives way to bright rosy apricot colored new growth foliage, then turns into a golden-tangerine color. Foliage is heart-shaped and extends into fall. Has tan bark with a yellowish cast distinctive from other redbuds. Needs full sun. Wide tolerance of soil moisture. Its drought and heat resistance prevents leaves from burning. Introduced by Jackson Nursery. TREE FORM AVAILABLE PG. 21 MULTI-STEM FORM</p>						



GREEN VELVET



CALLICARPA



THE RISING SUN™

LIMITED AVAILABILITY

Cornus Dogwood

3' 2' 18" 12" 6" 3"

alba 'Argenteo-marginata' (Variegated European Dogwood) ZONE 3-7 Height & Spread 6-8' Upright form. Creamy white margins on the green foliage are wider than the American strain. Bright red branches form an attractive winter effect. Full sun preferred but adapts to shade.

TREE FORM AVAILABLE PG. 21

alba 'Gouchaultii' (Mottled Dogwood) ZONE 3-7 Height & Spread 6-8' Variegated form with yellow and rose-pink colors. Foliage provides interesting color throughout the season, combined with blood-red twigs. Tolerates shade, but will show less color.

alba Ivory Halo® cv. 'Bailhalo' (P.P. 8722) ZONE 3-7 Height & Spread 5-6' Compact variegated red twigged selection by Bailey Nurseries. Texture is delicate. Good selection for small areas. Sun to part shade.

alternifolia (Pagoda Dogwood) ZONE 3-7 Ht. 15-20' Spread 20-25' Strong horizontal branching creates tiers. Creamy white flower clusters in May-June. Fruits bluish-black. Purple-red fall color. Slow growing shrub or small specimen tree. Prefers partial sun and moist well drained acidic soil.

kousa var. chinensis (Chinese Dogwood) ZONE 5-8 Height & Spread 15-20' Multi-stem form. Beautiful 2" white blooms in June. Pinkish-red fruit late summer adds to year-round interest. Red to plum fall tints with showy red fruits. Handsome specimen with many uses. Prefers moist well drained acidic soil. Resistant to dogwood anthracnose. Partial sun. **TREE FORM AVAILABLE PG. 22**

36" 30" 24" 18" 15" 12"

mas (Corneliancherry Dogwood) ZONE 4-8 Ht. 20-25' Spread 10-15' Yellow flowers in March appear before leaves, often used in flower arrangements. The bright, cherry-red 1½" fruits attract birds and are used for preserves and juice. Attractive exfoliating bark. Fall colors of yellow to red. Multi-stem form great used as screens or hedges. Tolerates clay and various pH soils. Full or partial sun.

TREE FORM AVAILABLE PG. 22

4' 3' 2' 18" 12" 6" 3"

mas 'Golden Glory' ZONE 5-8 Ht. 20-25' Spread 10-15' Large columnar shaped shrub. Profuse bright yellow flowers in early spring. Glossy deep green leaves. Red 5/8" cherry-like fruits. Red fall leaf color. Virtually pest free. Upright habit good for screening. Full sun to part shade.

TREE FORM AVAILABLE PG. 22

sericea 'Baileyi' (Bailey Red Twigged Dogwood) ZONE 3-8 Height & Spread 6-9' Broad-spreading rounded form. White flower clusters late spring. Dark red stems beautiful in winter. Porcelain-blue fruits. Non-stoloniferous. Good screen or hardy hedge. Wetlands plant. Full sun or shade.

sericea 'Cardinal' (Cardinal Redosier Dogwood) ZONE 3-8 Height & Spread 8-10' A stoloniferous form more vigorous than others. Fruits and flowers similar to Baileyi. Bright orange-red twigs in winter. Striking scarlet fall color. Full sun, partial sun or shade. Wetlands plant. Minnesota Nurserymen's Research Foundation introduction.

sericea 'Flaviramea' (Yellow Twig Dogwood) ZONE 3-8 Height & Spread 6-8' A golden-yellow stemmed form similar to the reds. Excellent winter effect. White flowers and berries. Glossy green foliage. Reddish-purple fall leaf color. Ideal for moist or wet soils. Full sun displays best color but will tolerate shade.



IVORY HALO®



GOLDEN GLORY



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Cornus continued from previous page...

2' 18" 12" 6"

sericea 'Isanti' (Isanti Dogwood) ZONE 3-8 Ht. 5-6' Spread 4-5' Dense and compact growing. Mound shaped. Abundant white flower clusters turning to white fruit in late spring. Striking fall color is dark purple-red. Fine textured red twigs in winter. Full sun or part shade.

sericea 'Kelsey' (Kelsey Dwarf Dogwood) ZONE 4-8 Height & Spread 2-3' Compact growth habit creates a very tight mound. White fruits and flowers. Dark wine-red stems. Red fall tints. Tolerates wet soils. Good border plant. Susceptible to leaf spot. Full or partial sun. **GRADED BY WIDTH**

18" 15" 12" 9" 6"

Corylus avellana European Filbert

24" 18" 15" 12" 9" 6"

Contorta (Harry Lauder's Walkingstick) ZONE 4-8 Height & Spread 8-10' Irregular form. Stems and leaves curled and twisted. Best for winter effect when catkins adorn contorted branches. Easily prunes to any shape. Plant in full or partial sun. **TREE FORM AVAILABLE PG. 22**

Cotinus Smokebush

2' 18" 12" 6"

coggyria 'Pink Champagne' ZONE 5-8 Height & Spread 6-8' Green leaf variety with a slight burgundy margin on new leaves. This variety has an abundance of feathery pink blooms lasting for weeks in mid-summer. Vigorous, upright growth habit.

coggyria 'Purple Supreme' ZONE 5-8 Height & Spread 8-10' Large airy plum-like inflorescence adorning this shrub turn from purple to dark pink. Striking purple foliage persists through summer. Very adaptable to a variety of conditions, preferring sun and well-drained soil. Rich soil can inhibit the development of fall color. Avoid planting in soggy wet areas.

coggyria 'Royal Purple' (Purple Smokebush) ZONE 5-8 Ht. 10-15' Spread 8-10' Forms a small open tree in a silky haze resembling smoke puffs. Dark purple-black leaves hold their color through summer turning reddish-purple in the fall. Plant in full or partial shade. **TREE FORM AVAILABLE PG. 23**



PURPLE SUPREME

Cotoneaster

3' 2' 18" 12"

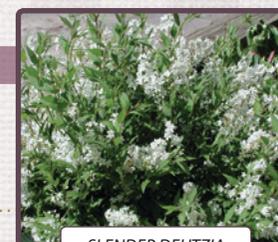
lucidus (Peking Cotoneaster) ZONE 2-7 Height & Spread 6-8' Upright vigorous shrub. Hardy. Dark green foliage turns red in fall. Suitable for hedging and screens. Shiny red to black fruits in fall. Prefers full sun to part shade. This plant has often been incorrectly referred to in the trade as *C. acutifolius*.

Deutzia

18" 15" 12" 9"

gracilis (Slender Deutzia) ZONE 4-8 Ht. 3-4' Spread 4-5' Low spreading habit loaded with clusters of white fringed flowers late spring to summer. Graceful arching branches. Great for small spaces. Blooms on old wood. Prune after bloom. Used for forcing. Native to Japan. Prefers full sun.

gracilis 'Nikko' ZONE 4-8 Ht. 2-3' Spread 3-4' Low, compact shrub. Roots as it spreads making an excellent groundcover. Profuse 3" white flowers in May. Very dense green foliage turns to burgundy-red in fall. Adaptable to most soil types. Full sun to light shade. **GRADED BY WIDTH**



SLENDER DEUTZIA

Diervilla Bush Honeysuckle

18" 12" 6"

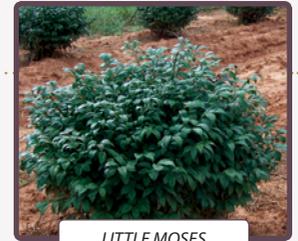
lonicera (Dwarf Bush-Honeysuckle) ZONE 3-7 Height & Spread 3-4' Dwarf mound shaped spreading plant. Small yellow flowers accent bronze green foliage. Reddish fall color. Hardy. Adapts to sandy or dry soil. No insect or disease problems. Excellent for mass plantings and slopes. Full or partial sun.

Euonymus Burning Bush

18" 15" 12" 9" 6"

alatus 'Compacta' (Dwarf Winged Burning Bush) ZONE 4-8 Ht. 5-7' Spread 4-5' Dense rounded compact form with smaller cork-like ridges on bark. Flame red fall color. Excellent hedge plant because no pruning is necessary. Full or partial sun. **TREE FORM AVAILABLE PG. 24**

alatus Little Moses™ cv. 'Odom' ZONE 4-8 Height & Spread 2-3' Densely compact and one of the smallest varieties of E. alatus Little Moses™ is best known for its incredible fall color. Its bluish-green foliage lasts throughout the season and turns to a deep crimson for fall that lasts longer than is typically seen with other E. alatus. Corky harvest gold stems add for a great ornamental feature in winter as well. A relatively low maintenance shrub that does well in full sun and full shade. It is very adaptable to both moist and dry locations and is highly tolerant of urban pollution.



LITTLE MOSES

Forsythia

24" 18" 15" 12"

x intermedia Gold Tide™ cv. 'Courtasol' (P.P. 9104) ZONE 5-9 Ht. 2' Spread 4' Arching branches give a flowing appearance. Early spring displays abundant lemon yellow, bell shaped flowers followed by bright green leaves. Delicate texture. Very attractive in mass plantings, making a good groundcover that is virtually maintenance free. Prefers full sun to part shade. Introduced by SNP originating from France.

GRADED BY WIDTH

x intermedia 'Lynwood Gold' (Lynwood Gold Forsythia) ZONE 4-8 Ht. 5-7' Spread 6-8' Upright slightly arching form. Noted for its heavy blooming habit. Large pale yellow flowers in April. Performs well in sun or partial shade.

4' 3' 2' 18" 12" 6"

x 'Meadowlark' (Meadowlark Forsythia) ZONE 3-8 Ht. 8-10' Spread 6-8' Hybrid hardy for northern plains. Flower buds hardy to -35°F. Semi-arching habit. Good as a single specimen or border planting. Selection from University of North Dakota. Plant in full sun or partial shade.

'Northern Gold' (Northern Gold Forsythia) ZONE 3-8 Ht. 6-8' Spread 4-5' Outstanding flower color. Bud hardiness as far north as Morden, Manitoba. Blooms later and produces flowers on top of branches. Upright habit but lower growing than Meadowlark or Northern Sun. Grows well in full or partial sun.

Fothergilla major Blue Shadow

18" 12" 6"

cv. 'Blue Shadow' (Blue Shadow Fothergilla) (P.P. 15490) ZONE 4-9 Height & Spread 5-6' Full sun to partial shade. Blue Shadow has a nice dense, rounded form. Adorned by honey scented, bottlebrush flowers in early spring before the leaves push out. Foliage is a handsome glaucous, icy blue with orange and red hues in the fall. Prefers acidic soil.



BLUE SHADOW

Hamamelis Witchhazel

3' 2' 18" 12" 6"

vernalis (Vernal Witchhazel) ZONE 4-8 Height 6-10' Spread 6-8' Rounded habit. Fragrant yellow flowers during the winter cold of January through March, depending on the area. Flower petals close at lowest temperatures. Blooms on old wood. Golden-yellow fall color. Prefers moist organic soil but can tolerate dry conditions. pH adaptable. Part shade to sun.

Autumn Embers™ 'Klminnieteen' ZONE 4-8 Ht. 8' Spread 10' Fragrant orange-yellow flowers bloom in early spring. Outstanding red-burgundy fall color. The upright rounded habit is excellent for screening or an informal hedge. Plant in full sun or partial shade. Introduced by Roy Klehm.



LIMITED AVAILABILITY

Hamamelis continued on next page...

Hamamelis continued from previous page...

3' 2' 18" 12" 6"

virginiana (Common Witchhazel) ZONE 3-8 Height & Spread 15-20' Native small tree or shrub. Crooked branches. Green foliage turning yellow in fall. Fragrant yellow flowers in October or as late as December depending on cool fall temperatures. Blooms on old wood. Prefers moist organic soil but can tolerate dry conditions. Sun or shade.

x intermedia 'Arnold Promise' ZONE 5-8 Ht. 15-20' Spread 20' Introduced by Arnold Arboretum. Clear yellow flowers with a reddish calyx cap each petal. Flowers are fragrant and almost an inch long. Blooming time varies from year to year from late February to mid April. Produces heavy crops of flowers every year. Full sun or partial shade. **TREE FORM AVAILABLE PG. 26**

GRAFTED MULTI-STEM

x intermedia 'Barmstedt Gold' ZONE 5-8 Ht. 15-20' Spread 20' An upright variety with narrowly ascending branches. Rich golden yellow fragrant flowers bloom in late January to February. One of the best witchhazels with excellent and consistent flower production. It has yellow fall color.

TREE FORM AVAILABLE PG. 26

GRAFTED MULTI-STEM

x intermedia 'Diane' ZONE 5-8 Ht. 15-20' Spread 20' Upright spreading medium to large shrub. Excellent red-flowering form yet more copper-red than red. Yellow-orange-red fall color. Old leaves persist on this form. **TREE FORM AVAILABLE PG. 26**

GRAFTED MULTI-STEM

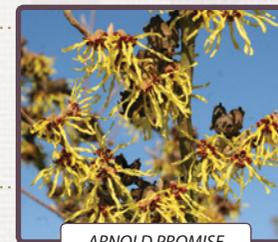
x intermedia 'Jelena' ZONE 5-8 Ht. 15-20' Spread 20' A Kalmthout Arboretum introduction. Beautiful shrub becoming wide spreading with age. Copper colored flowers that glow like copper from a distance. Rich orange-red fall color. Also known as Copper Beauty.

TREE FORM AVAILABLE PG. 26

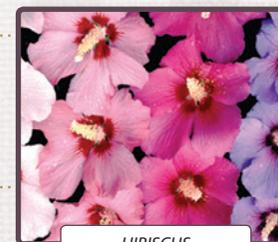
GRAFTED MULTI-STEM

x intermedia 'Rubin' ZONE 5-8 Ht. 15-20' Spread 20' An upright vase shaped variety. An excellent red flowering selection that holds its color better than 'Diane'. It is lightly scented and has orange fall color. **TREE FORM AVAILABLE PG. 26**

GRAFTED MULTI-STEM



ARNOLD PROMISE



HIBISCUS

Hibiscus Althea

2' 18" 12" 6"

syriacus (Rose-of-Sharon) ZONE 5-8 Ht. 8-12' Spread 4-6' Upright shrub or small tree. Flowers cover the entire plant, closing in rainy weather. Blooms profusely June to frost. Good used as a screen, hedge, border plant or specimen. Full or partial sun.

'Aphrodite'	single, large flower	dark pink with rose eye
'Ardens'	double	lilac-pink
'Blushing Bride'	double	rosy-pink
'Collie Mullens'	double	red-purple
'Diana'	single large flower	white
'Minerva'	single	lavender-pink with purple eye
'Red Heart'	single	white with red eye

syriacus Blue Angel™ cv. 'Greba' ZONE 5 Height & Spread 6-10' Upright, vigorous growing shrub. It has large, single blue flowers in late summer. Blooms on new wood, so pruning is necessary in early spring. Tolerates a wide variety of soil types and moisture conditions. Prefers full sun.



BLUE ANGEL

Hydrangea

#1 Med #2

arborescens 'Annabelle' (*Annabelle Smooth Hydrangea*) ZONE 3-9 Height & Spread 3-5'
Rounded form. Dark green leaves. Masses of large white 8-12" dome-shaped corymbs can be used in dried arrangements. Flowers appear on same years' growth. Very showy in full bloom. Virtually pest free. Sun or part shade.

macrophylla 'Blue Wave' (*Blue Wave Hydrangea*) ZONE 6-9 Ht. 4-6' Spread 3-5' Rich blue lacecap-like flowers. Aluminum sulfate can improve blue color by making soil more acidic. Somewhat mounding form. Best in light shade. Very popular variety.

macrophylla 'Glowing Embers' (*Glowing Embers Bigleaf Hydrangea*) ZONE 6-9 Ht. 4-6' Spread 3-5' Dark red-rose clusters of large flat flowers. Abundant blooms become mottled with green and red as they mature. Glossy dark green leaves with slight red tint. Medium growth rate with a compact habit.

macrophylla 'Nikko Blue' (*Nikko Blue Bigleaf Hydrangea*) ZONE 5-9 Ht. 6-8' Spread 3-5' Large globe shaped flowers vary in blue color according to soil acidity. Increase acidity for deeper blue color. Prune after bloom. Large lime green leaves. Open upright branching. Full or partial sun.

macrophylla Next Generation Pistachio cv. 'Horwack' ZONE 5-9 Ht. 2-3' Spread 3-5' Unique, eye catching Hydrangea. Large, long lasting blooms with petals of lime green accented with deep pink. Compact, mounding form. Stunning as a focal point or in a grouping. Nice fall color. Place in a partially shaded area.

macrophylla Star Gazer cv. 'Kompeita' (P.P. 20998) ZONE 5-9 Ht. 3-4' Spread 3-5' Unique star-like fully double blossoms of blue or pink depending on soil pH. Reblooming with a mounding habit. Great for harvesting cut flowers. Salt tolerant and mildew resistant.

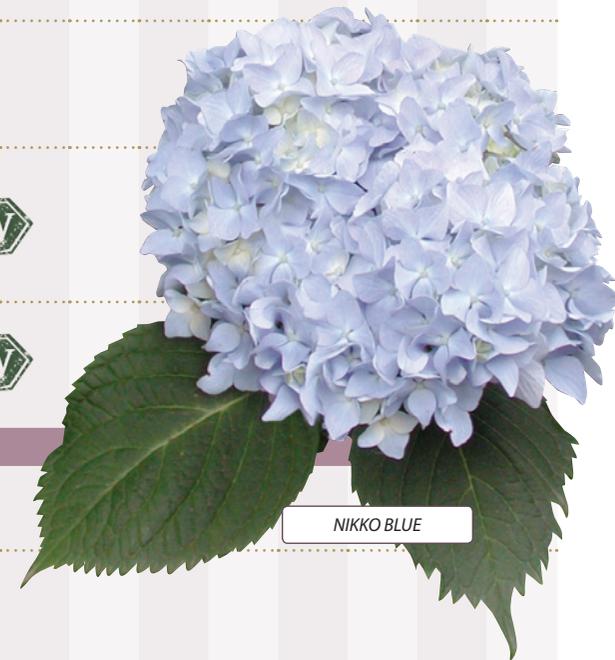
paniculata 'Grandiflora' (*PeeGee Hydrangea*) ZONE 4-8 Ht. 8-10' Spread 4-6' Large coarse leaves. Very showy late summer. Large conical white flowers change to pink-bronze in autumn. Prune heavily after flowering. Nice vigorous strain. **TREE FORM AVAILABLE PG. 26**

paniculata Phantom ZONE 3 Height & Spread 7-9' Full sun or dappled shade. A sister seedling of Limelight with much stronger stems that support the huge flowers. Blooms start white, some flushed with lime green, then deep pink at maturity. Fabulous cut flower. Phantom prefers average to moist conditions and is highly tolerant of urban pollution. **TREE FORM AVAILABLE PG. 26**

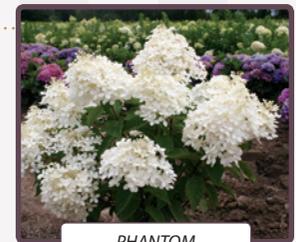
paniculata Sweet Summer cv. 'Bokrathirteen' (P.P. 21778) ZONE 4-9 Ht. 4-5' Spread 4-6' Green flowers mature to white in summer and turn shades of pink in fall. Sturdy stems, nice for a cut flower. One of the most winter hardy of the hydrangeas. Nice as a hedge. Tolerant of air pollution. Will tolerate full sun to partial shade.



2' 18" 12" 6"



NIKKO BLUE



PHANTOM

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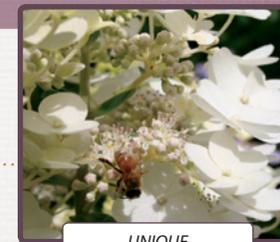
Hydrangea continued on next page...

Hydrangea continued from previous page...

2' 18" 12" 6"

paniculata 'Tardiva' (Late Panicle Hydrangea) ZONE 4-8 Ht. 6-8' Spread 4-6' Valued for season extending color. Blooms September through October. Large 6-8" white blooms turn creamy yellow with pink edges. Coarse branches. Dark green leaves. Prefers full sun.

TREE FORM AVAILABLE PG. 26



UNIQUE

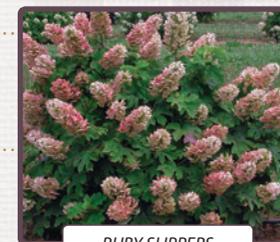
paniculata 'Unique' (Unique Late Panicle Hydrangea) ZONE 4-8 Ht. 8-10' Spread 10-15' Large 8-10" conical broad flower heads are white in July turning to dusty pink in fall. Spectacular floral display. Larger blooms than PeeGee. Dense rounded form. Vigorous, trouble free shrub. Prefers full sun.

TREE FORM AVAILABLE PG. 26

quercifolia (Oakleaf Hydrangea) ZONE 5-9 Ht. 6-8' Spread 3-5' Beautiful conical shaped creamy white flowers in summer. Large leaves reminiscent of red oak leaves turn red and purple in the fall. Handsome exfoliating cinnamon colored bark adds interest to this beauty. Prefers acidic soil and partial to full shade.

#1 Med #2

quercifolia 'Alice' (Alice Oakleaf Hydrangea) ZONE 5-9 Height & Spread 12' inflorescences 10 to 14" long. Cream-white large sepals cover the fertile flowers and age to pink-rose as they mature. Dark green summer foliage turns burgundy-red in autumn. Partial sun.



RUBY SLIPPERS

quercifolia 'Ruby Slippers' ZONE 5-8 Ht. 3-5' Spread 5-7' Small rounded shrub with dark green foliage in the summer turning to mahogany red in the fall. In early summer Ruby Slippers is covered with gorgeous 9" long blooms. Flowers open white but quickly turn pale pink and then deepen to rose in the fall.

quercifolia 'Sikes Dwarf' ZONE 4-8 Ht. 3' Spread 4' A dwarf clone of oakleaf hydrangea with white flowers and attractive foliage. It is about half the size of most quercifolias, rendering it a mainstay in the smaller garden. Its handsome broad foliage shows off abundant ivory-colored conical blooms. Turns purple in the fall.

quercifolia 'Snowflake' ZONE 5-9 Height & Spread 6-7' Form is compact, rounded. Foliage is medium green. Double blooms make it more appealing than single varieties. Florets continue blooming throughout summer. White blossoms age to pink. Burgundy-red fall color. Grows well in drier areas and grows well in high pH soils.

quercifolia 'Snow Queen' (Snow Queen Oakleaf Hydrangea) ZONE 5-9 Ht. 5-6' Spread 3-5' More uniform characteristics than the species. Larger more prolific sterile florets. Strong exfoliating stems hold the flowers upright. Dark-green leaves turn burgundy in fall. Sun or shade.

serrata 'Blue Lace' (Blue Lace Hydrangea) ZONE 5-9 Ht. 4-5' Spread 3-4' Open, upright branching. Smaller, narrower leaves and form than macrophyllas. Large blue ray flowers have lacy petals. Prune after bloom. Full or partial sun.

serrata *preziosa* 'Pink Beauty' (Pink Beauty Hydrangea) ZONE 5-9 Height & Spread 3-4' Colorful red stems support abundant 6" flower heads. Correct pH produces white blooms turning to shell pink, fading to deep crimson. Bud hardy in cold winters. Large green leaves turn to maroon in early fall. Sun to partial shade.



PINK BEAUTY

<i>Hypericum St. Johnswort</i>	#1	Med	#2	
<p><i>frondosum</i> 'Sunburst' (Sunburst Golden St. Johnswort) ZONE 4-8 Height and Spread 2-3' A superior variety for the midwest. Large 1-2" flowers display large colorful stamens blooming late into summer. Leaves are blue-green in color and its winter effect conveys flaking, reddish-brown bark. Great for mass plantings, being lower growing than the species.</p>				
<p><i>kalmianum</i> (Kalm St. Johnswort) ZONE 4-7 Height & Spread 2-3' Rounded form. Blue-green summer foliage. July-August bloomer. Attractive 2" yellow-gold flowers cover mounding plant. Good hardy border. Full sun.</p>				
<p><i>kalmianum Blue Velvet</i> cv. 'CCFLPC-1' ZONE 5-9 Ht. 3' Spread 2' Attractive blue velvety aromatic leaves. Covers itself with golden-yellow flowers from June through September. Flowers are followed by bright red berries. Nice as a specimen, hedge or in a mass planting. Drought and urban pollution tolerant.</p>				
<i>Ilex Holly</i>	2'	18"	12"	6"
<p><i>verticillata</i> 'Southern Gentleman' (Southern Gentleman Winterberry) ZONE 3-9 Height & Spread 8' Verticillata are the hardiest of all hollies, Southern Gentleman being hardy to Zone 3. Dark green foliage on a rounded form. Will grow in very wet soils. Male pollinators for southern types, including Winter Red and Winter Gold.</p>				 <p>WINTER RED</p>
<p><i>verticillata</i> 'Winter Red' (Winter Red Winterberry) ZONE 4-9 Ht. 6-8' Spread 4-6' Female selection. Persistent profuse red berries bear at younger age. Dark green foliage turns bronze in fall. Needs 'Late Male' or 'Southern Gentleman' to pollinate. Prefers moist well drained acidic soils. Full or partial sun. 'Winter Red' was named the 2005 "Fresh Cut Flower of the Year" by Association of Specialty Cut Flower Growers.</p>				 <p>HENRY'S GARNET</p>
<i>Itea Sweetspire</i>	24"	18"	15"	12" 9"
<p><i>virginica</i> 'Henry's Garnet' (Henry's Garnet Virginia Sweetspire) ZONE 5-9 Ht. 3-4' Spread 4-5' Fragrant cylindrical 6" white flower spikes appear early summer. Clean bright green leaves turn from yellow to crimson. Great fall color. Prefers partial shade and moist, acid to slightly alkaline soil. Very tough and adaptable. Great for small spaces.</p>				
<i>Kerria</i>	2'	18"	12"	6"
<p><i>japonica</i> 'Pleniflora' (Double Flowering Japanese Kerria) ZONE 5-9 Ht. 6-8' Spread 3-5' Dense shrub covered with double orange-yellow flowers in May. Ball shaped flowers are profuse. Pendulous graceful arching form. Bright green stems add winter interest. Does best with low fertility. Shade or sun.</p>				
<i>Kolkwitzia Beautybush</i>	2'	18"	12"	6"
<p><i>amabilis</i> 'Pink Cloud' (Pink Cloud Beautybush) ZONE 4-8 Ht. 6-8' Spread 5-6' Clear deep-pink flowers in corymbs cover this shrub in May and June. Graceful medium sized shrub. Selected seedling raised at Wisley in 1946. Sun to part shade.</p>				 <p>PLENIFLORA</p>

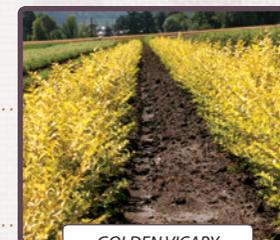
Ligustrum Privet

36" 30" 24" 18" 15" 12"

vulgare 'Cheyenne' (Cheyenne Privet) ZONE 5-8 Ht. 12-15' Spread 6-8' Upright irregular shape. Prunes to a dense hedge. Fragrant small white flower clusters in early summer. Black berries in winter. Foliage holds late into the winter. Hardy. Full sun.

vulgare 'Lodense' (Lodense Privet) ZONE 5-8 Height & Spread 3-4' Low, dense, compact form. Glossy green foliage. Slow growing. Ideal mounding low hedge. Shears well. Holds leaves late. Full or partial sun.

x vicaryi (Golden Vicary Privet) ZONE 5-8 Ht. 4-6' Spread 3-4' Compact, somewhat vase shaped shrub with bright golden-yellow leaves. Yellow color is strongest in cool weather. Fragrant flowers early summer. Takes well to shearing. Full sun.



GOLDEN VICARY

Lonicera Honeysuckle

3' 2' 18" 12"

tatarica 'Arnold Red' (Arnold Red Honeysuckle) ZONE 3-8 Ht. 6-8' Spread 4-6' Upright arching form. Darkest of the red honeysuckles. Flowers are followed by bright red berries. Attracts hummingbirds and butterflies. Resistant to Russian honeysuckle aphid. Full sun.

x 'Honeyrose' ZONE 4-7 Height & Spread 8-10' Selected primarily for its resistance to honeysuckle witches broom. Upright arching branches support abundant fragrant clusters of rose-red blooms in late May. Attractive blue-green leaves. Its rounded form makes it a good choice for hedges and borders. Honeyrose tolerates most any soil conditions. Prefers full sun to part shade. University of Minnesota selection.

Parrotia

18" 12" 6"

persica (Persian Parrotia) ZONE 5-8 Ht. 20-40' Spread 20' Multi-stemmed form with an upright oval-rounded head. Outstanding small ornamental specimen. Reddish-purple new leaves change to dark green then brilliant orange to scarlet fall color. Exfoliating bark in mature trees. Full or partial sun. **TREE FORM AVAILABLE PG. 34**

persica Ruby Vase® cv. 'Inge' ZONE 4-8 Ht. 30' Spread 12' A new consistent growing cultivar with upright vase shaped form. New growth is purplish-red throughout the summer growing period. Carlton Plants introduction. **TREE FORM AVAILABLE PG. 34**

Philadelphus Mockorange

3' 2' 18" 12" 6"

lewisii 'Blizzard' (Blizzard Mockorange) ZONE 3-7 Ht. 4-5' Spread 3' Profuse clusters of fragrant single white blooms, lasting up to four weeks. Medium-sized upright shrub. Full sun. Selected in Alberta, Canada for its cold hardiness and profuse blooms.

x virginalis 'Minnesota Snowflake' (Minnesota Snowflake Mockorange) ZONE 4-8 Ht. 6-8' Spread 4-6' Vigorous grower. Double white flowers 2" in diameter and fragrant. Hardy to -30°F. Full sun.



PERSIAN PARROTIA

BLIZZARD MOCKORANGE

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Physocarpus Ninebark

3' 2' 18" 12" 6"

opulifolius Center Glow (P.P.16894) ZONE 3 Ht. 8-10' Spread 6-8' Provides an accent of color in the landscape during the entire growing season. Upright rounded shape. New leaves rosy red in color with a bright golden yellow base. As leaves mature they become a darker deep burgundy. Flower buds are light pink opening to clusters of white flowers. Full sun. Prefers well-drained soil. Landscape Plant Development Center introduction. **TREE FORM AVAILABLE PG.36**

opulifolius 'Dart's Golden' (Dart's Golden Ninebark) ZONE 2-7 Height & Spread 4-5' Small upright compact growing shrub. White flowers. Golden colored deeply lobed leaves. Drought tolerant. Does well in alkaline soils. Full sun.

opulifolius Diabolo® cv. 'Monlo' (P.P. 11211) ZONE 2-7 Height & Spread 8-10' Unique reddish-purple three lobed leaves hold their color through summer when planted in full sun. Good for intermixing with contrasting colors. Upright spreading habit makes an attractive screen. Dense clusters of small white flowers in early summer turn to red 1/4" fruits. Withstands harsh conditions. **TREE FORM AVAILABLE PG.36**



Potentilla Cinquefoil

24" 18" 15" 12" 9" 6"

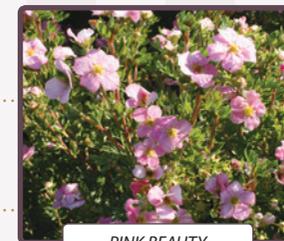
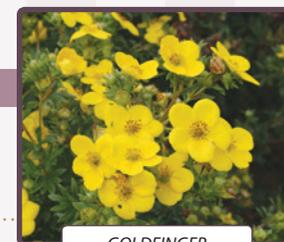
fruticosa 'Abbottswood' (Abbottswood Potentilla) ZONE 2-7 Height & Spread 2-3' Dense spreading habit. Dark bluish-green foliage. Large white flowers bloom throughout the summer into fall. Grows in any well drained soil. Requires full sun.

fruticosa 'Gold Drop' (Gold Drop Potentilla) ZONE 2-7 Height & Spread 2-3' Dwarf compact form. Attractive fine textured foliage. Abundant large 3/4" deep yellow flowers. Full sun.

fruticosa 'Gold Star' ZONE 2 Ht. 3' Spread 2' Large 1 1/2 to 2" deep yellow-gold blooms. Silver-green leaves are mildew resistant. Great border plant displaying spring through summer color. Tolerates dry conditions and most any type of well drained soil. Full sun to partial shade.

fruticosa 'Goldfinger' (Goldfinger Potentilla) ZONE 2-7 Ht. 2-3' Spread 2' Compact mounding form. Fine-textured dark green foliage. Large 1 1/2" golden-yellow buttercup-like flowers continue blooming all summer. Full sun.

fruticosa 'Pink Beauty' (Pink Beauty Potentilla) (P.P. 9874) ZONE 3-7 Height & Spread 3' Early clear pink semi-double blooms continue into fall. Attractive bright green leaves. Does well in dry soil and cold climates. Vigorous. Full sun. University of Manitoba introduction and patented by Bailey Nursery.



Prunus

2' 18" 15" 12" 9" 6"

besseyi Pawnee Buttes® Western Sand Cherry ZONE 3-8 Height & Spread 3-6' An extremely hardy deciduous shrub with fragrant white flowers appearing in mid to late spring and later producing heavy crops of sour black cherries, which are great for wildlife attractants as well as culinary uses. Foliage is silvery green turning to a bronze red in fall. Best in full sun to partial shade. Well drained soil is preferable, but can be used in hot, dry areas of the landscape. Rarely bothered by insects or diseases. **GRADED BY WIDTH**

incisa Little Twist® cv. 'CarltonLT' ZONE 5 Height & Spread 8' Full sun to part shade. Stems and shoots zigzag offering a unique form that supports profuse, tightly clustered white bell-shaped flowers with pink centers. Leaves turn a rich maroon color in fall. Adaptable to various soil types. Carlton Plants introduction. **TREE FORM AVAILABLE PG. 37** **VIRUS CERTIFIED**



Prunus continued on next page...

Prunus continued from previous page...

3' 2' 18" 12" 6"

tomentosa (Nanking Cherry) ZONE 3-7 Ht. 6-10' Spread 5-7' Broad spreading shrub. Showy pink to white flowers in mid-spring are fragrant. The edible 1/3" scarlet fruits attract birds. Exfoliating red-brown bark. Very hardy. Full sun. Drought resistant.

virginiana 'Red Select' ZONE 2-7 Ht. 25' Spread 20' New foliage green turning dark maroon as the leaf matures. Less suckering. Fragrant flowers are white and rather attractive in late April. Fruit is red turning dark purple. Fruits have been used for making jams, jellies, pies, sauces and wine. Useful as a quick screen. Full sun to part shade. **TREE FORM AVAILABLE PG. 39** **VIRUS CERTIFIED**

x cistena (Purpleleaf Sand Cherry) ZONE 3-8 Ht. 6-10' Spread 6-8' Large upright shrub. Reddish-purple foliage throughout summer. Single pink fragrant flowers in late spring. Attractive colorful hardy hedge. Prefers full sun. **TREE FORM AVAILABLE PG. 38** **VIRUS CERTIFIED**



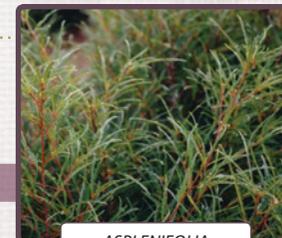
PURPLELEAF SAND CHERRY

Rhamnus Buckthorn

3' 2' 18" 12" 6"

frangula 'Asplenifolia' (Fernleaf Buckthorn) ZONE 3-7 Ht. 12-15' Spread 6-10' Unique narrow thin leaves give this cultivar an interesting delicate fine texture. Flowers are green and inconspicuous. Red berries in summer eventually turn black. Yellow fall color. Drought tolerant. Thornless. Full sun to part shade. **TREE FORM AVAILABLE PG. 41**

frangula 'Columnaris' (Columnar Glossy Buckthorn) ZONE 3-7 Ht. 12-15' Spread 3-5' Upright narrow-oval growth habit. Dense, lustrous dark green foliage. Attractive red to purple-black fruit. Good hedge or screen plant. Thornless. Yellow fall color. Full or partial sun.



ASPENIFOLIA

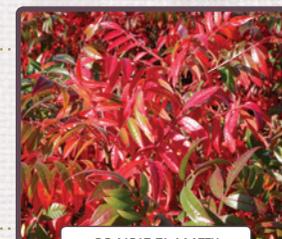
Rhus Sumac

3' 2' 24" 18" 15" 12" 9" 6"

aromatica 'Gro-Low' (Gro-Low Fragrant Sumac) ZONE 4-9 Height & Spread 2-3' Low, spreading form perfect for mass plantings and bank stabilization. Leaves have citrus like fragrance. Glossy foliage turns red to purple in the fall. Tiny yellow flowers turn to small red berries. Full sun.

GRADED BY WIDTH

copallina var. latifolia Prairie Flame™ cv. 'Morton' ZONE 5-9 Ht. 5-7' Spread 5-10' This is a male selection that tends to be more low growing and compact than that of the native species. Its dark green, glossy foliage becomes a bright scarlet in fall. Very useful as a groundcover for infertile soils where it is able to colonize rapidly. Prefers full sun to part shade and grows well in dry, informal, naturalized areas. Deer resistant. Introduced by Morton Arboretum.



PRAIRIE FLAME™

glabra (Smooth Sumac) ZONE 2-7 Ht. 6-8' Spread 3-5' Slower growing and smaller than typhina. Spreads by suckers. White, female bloom spikes turn to red fuzzy seedheads. Stems are smooth, not hairy like typhina. Orange, red and purple color combinations in fall. Tolerates drought along with salty and alkaline conditions. Full sun or shade.

typhina (Staghorn Sumac) ZONE 3-8 Height & Spread 15-20' Shrub form is open, spreading and suckering. Clusters of fuzzy bronze torch-shaped seed heads on tips of branches. Stems covered with dense velvet hair. Vivid orange-scarlet fall color. Sun or shade.



LACINIATA

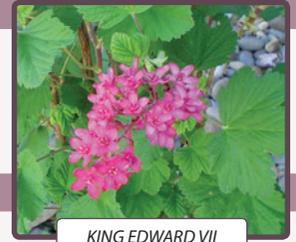
typhina 'Laciniata' (Cut Leaf Staghorn Sumac) ZONE 3-8 Height & Spread 10-15' Leaves deeply divided and lacy. Beautiful yellow-orange to red fall color. Fine foliage appears ferny. Tolerant of alkaline soils. Spreads by suckers. Full sun or shade.

Rhus continued on next page...

Rhus Sumac continued from previous page...

3' 2' 24" 18" 15" 12" 9" 6"

typhina Tiger Eyes® cv. 'Bailtiger' (P.P.16185) ZONE 4-8 Height & Spread 6' Upright rounded form. A beautiful golden form of Cutleaf Staghorn Sumac. New growth is a chartreuse green, quickly changing to yellow and contrasts nicely with the rose-pink leaf stems. Intense scarlet fall colors. Container required.



KING EDWARD VII

Ribes Currant

36" 24" 18" 15" 12" 9" 6" 3"

alpinum (Alpine Currant) ZONE 2-7 Height & Spread 3-5' Dense rounded shrub. Glossy dark green leaves. Small greenish-yellow flowers followed by scarlet-red berries that attract birds. Requires very little maintenance to maintain tidy appearance. Adapts to dry conditions. Good hedge plant in semi-shady areas. Grows well in full sun or shade.

sanguineum 'King Edward VII' (Red Flowering Currant) ZONE 5-7 Height & Spread 5-6' Blooms April to May attracting hummingbirds. Crimson-red pendulous racemes turn to blue-black berries. Yellow fall color. Showy accent plant as a tree form. Sun to partial shade.

TREE FORM AVAILABLE PG. 42

sanguineum 'Pokey's Pink' ZONE 5-7 Height & Spread 6-8' Very attractive clear pink pendant flower clusters in early spring are followed by dark blue berries used by birds and mammals. Early spring hummingbirds visit flowers. Highly recommended for both large and small landscapes.

sanguineum 'White Icicle' (White Icicle Flowering Currant) ZONE 5-7 Height & Spread 6-8' Pendulous showy white flower racemes make this a very attractive accent plant. Begins flowering in April. Prefers full sun to partial shade.

BONICA®

Rosa Hardy Roses

#1 #1 1/2 #2

Bonica® cv. 'Meidomonac' ZONE 4 Height & Spread 5' Fully double 3" pastel-pink flowers with darker centers. Everblooming. Slightly fragrant. Strong arching stems. Small deep-green glossy leaves. Abundant orange-red hips. Disease resistant. Tolerant of poor dry soils. Suitable for hedging. Meidiland™ family of roses. Conard-Pyle introduction

Carefree Sunshine™ cv. 'Radsun' (P.P. 13063) ZONE 4-7 Height & Spread 3-4' Another outstanding ever blooming disease-resistant rose. Deep golden yellow buds open to blooms of 5-10 petals of lemon-yellow beginning in the spring and into the fall. Conard-Pyle introduction.

Double Knock Out® cv. 'Radtko' (P.P. 16202) ZONE 4-9 Height & Spread 3-4' A sister seedling to the Knock Out®. Double Knock Out® has kept all the high disease resistance characteristics of its sibling. The plant habit is slightly smaller but gaining a more sophisticated "true rose" look with an abundance of small, almost miniature high centered double cherry red flowers. Light tea fragrance. Container required below trade size #5.

Fire Meidiland® cv. 'Meipsidue' ZONE 4 Ht. 2' Spread 4' Double, deep-red blooms in large clusters. Blooms from spring to frost. Its dainty, tough foliage is extremely disease resistant. Great used as a groundcover, in mass plantings, and on banks for erosion control. Conard-Pyle introduction.



KNOCK OUT®

Rosa continued on next page...

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Rosa continued from previous page...

#1 #1 1/2 #2

Hansa ZONE 3 Ht. 4-6' Spread 3-5' Large double mauve-red flowers. Recurrent bloom June through Sept. Very fragrant, accented with clove. Glossy green, clean rugged foliage is disease resistant. Large red hips ripen after petals fall. Vigorous grower. Broad rounded form. Very thorny. Rugosa hybrid. Great for hedges in cold climates. Full sun.

Ice Meidiland® cv. 'Meivahyn' ZONE 4 Height & Spread 2-3' Abundant double clear white blooms with butter-cream yellow centers. Spring bloom with good repeat until fall. Deep green glossy foliage. Arching canes make this a good groundcover rose. Excellent disease resistance. Conard-Pyle introduction.

Knock Out® cv. 'Radrazz' (P.P. 11836) ZONE 4-7 Height & Spread 3' Single deep cherry red ever-blooming shrub rose. "The most disease resistant rose to come along in the last 50 years" states Star Roses. Foliage is a deep purplish green. Resistant to black spot, mildew and rust. Drought tolerant. An AARS winner in 2000 (perfect10/10). Container required below trade size #5.

Nearly Wild ZONE 4 Ht. 4-6' Spread 3-5' Floribunda type. Red hips in fall. Fragrant rose-pink buds. Bushy, broad spreading vigorous rose. Covered with large single pink flowers. Recurrent bloom June until frost. Very showy. Disease resistant. Adapts to dry conditions. Useful as a groundcover in mass plantings. Prefers full sun.

Pink Knock Out® cv. 'Radcon' (P.P. 15070) ZONE 4-7 Height & Spread 3' Single pink ever-blooming shrub rose. Foliage resistant to blackspot, mildew and rust. Drought tolerant. Conard-Pyle (Star® Roses) introduction. Container required below trade size #5.

rubrifolia (glauca) ZONE 2 Ht. 4-6' Spread 3-5' Single star shaped bright pink flowers. Fragrant. New leaves are red tinged turning to deep purple with dark purple canes. A very attractive feature. Few thorns on new growth. Hips are purple-red, elongated and persistent. Used as a specimen or in groupings.

rugosa (Red Rugosa Rose) ZONE 2 Ht. 4-6' Spread 3-5' Large red-purple fragrant flowers produced throughout summer. Brilliant green leaves. Gold colored foliage in fall. Large orange and red hips. Can form a tall hedge. Tolerates dry soil. Very hardy. Full sun.

rugosa alba (White Rugosa Rose) ZONE 3 Ht. 4-6' Spread 3-5' Large pure white flowers. Dense deep green leaves turn orange-yellow in fall. Will grow in partial shade. Very disease resistant to mildew and blackspot. Hardy and dependable. Large red hips. Fragrant.

Sunny Knock Out® cv. 'Radsunny' (P.P. 18562) ZONE 4-7 Height & Spread 3' Sunny Knock Out® has the disease resistance of the original Knock Out® with similarly dark attractive foliage and a slightly more upright habit. Bright yellow blooms will turn cream white when fully open. Flowers are very abundant and will bloom year round in mild climates. Conard-Pyle introduction. Container required below trade size #5.

The Fairy ZONE 5 Height & Spread 2' Blooms are double shell-pink and cupped. Flowers are dainty, small and borne in clusters. Good for cut flowers. Dwarf Polyantha. Glossy green leaves. Dense spreading growth makes this variety a good groundcover or low hedge. Disease resistant and hardy. Will grow in partial shade.

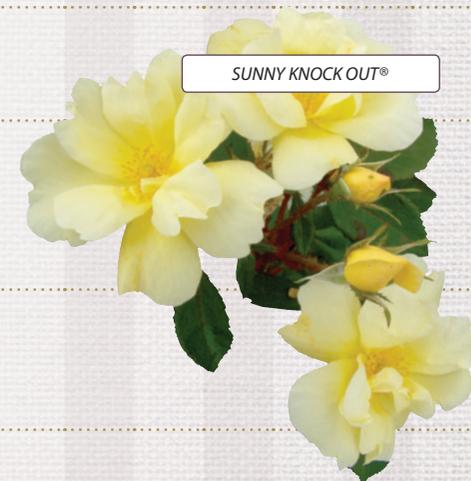
Winnipeg Parks (P.P. 9122) ZONE 3 Height and Spread 2-3' Medium red fragrant blooms borne in clusters. Recurrent bloom. Attractive foliage shows red tinges in fall. Resistant to powdery mildew and blackspot. Dense rounded form. Great as a specimen or as a landscape rose.



NEARLY WILD



WHITE RUGOSA ROSE



SUNNY KNOCK OUT®

<i>Salix Willow</i>	3'	2'	18"	12"	6"
<i>caprea</i> (French Pussy Willow) ZONE 4-8 Height & Spread 8-10' Early spring silver grey catkins bring ornamental value to this fast growing shrub. Catkin buds are red tinged. Spikes are yellow-green and often used in the florist trade at Easter time. Upright habit. Full sun.					
<i>purpurea 'Nana'</i> (Dwarf Blue Arctic Willow) ZONE 3-7 Height & Spread 3-4' Attractive, fine blue-green leaves on purplish colored stems. Small insignificant yellow-green catkins. Dense rounded form. Yellow fall color. Makes a nice fine textured hedge. Thrives in poor soils. Full sun to part shade.					
<i>x integra 'Hakuro Nishiki'</i> (Dappled Willow) ZONE 3-7 Ht. 6-8' Spread 4-6' The new growth is a glossy bright pink which unfolds into variegated slender leaves dappled with colors of pink, white and green. Can burn in full sun. This variety is a unique accent plant. TREE FORM AVAILABLE PG. 40					
<i>x Flame</i> ZONE 3-7 Height & Spread 15-20' Bright orange-red stems during winter create interesting focal point. Branch tips curl upward and inward. Dense oval form. Gold fall leaf color. More wind tolerant than other varieties making it a good choice for windbreaks. Very hardy. Discovered by M. Bergeson, MN.					
<i>x 'Scarlet Curls'</i> ® cv. 'Scarcuzam' ZONE 5-7 Ht. 25-30' Spread 15-20' Twisted golden branches with scarlet-red stems. Best coloring after hard frost. Narrow curly leaves. Oval form. Lake County 'ZAM' introduction.					



HAKURO NISHIKI

<i>Sambucus nigra European Elder</i>	#1	Med	#2
<i>Black Tower</i> cv. 'Eiffel01' PPAF ZONE 3 Ht. 6-8' Spread 3-4' Upright elderberry selection with dark burgundy foliage. Pink buds open to pinkish-white flowers creating a nice color contrast, followed by dark berries that attract birds in the fall. Plant in partial sun or shade.			



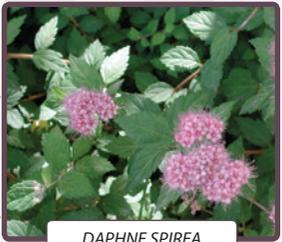
<i>'Madonna'</i> ZONE 4-7 Ht. 6-8' Spread 8' Variegated yellow and green foliage all summer. Large 6-10" flowers in the spring. An excellent choice for moist soils, but can also tolerate dry conditions.					
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SOBARIA

<i>Sorbaria Ash Leaf Spirea</i>	2'	18"	12"	6"
<i>sorbifolia</i> (Ash Leaf Spirea) ZONE 2-7 Height & Spread 6-8' Attractive dark green fern-like foliage. Large plumes up to one foot in length. Creamy-white plumes appear in summer blooming on new wood. Prune out older stems early spring to promote blooms. Also known as Spirea Sorbifolia or Ural Falsespirea. Partial sun or shade.				

<i>Spiraea</i>	2'	18"	15"	12"	9"	6"
<i>billardii 'Triumphans'</i> (Triumphans Billard Spirea) ZONE 3-8 Height & Spread 4-6' Large deep-pink flower spikes appear in late summer. Excellent for late color and drying. Good used in borders as it will form dense clumps. Prefers full sun and deep soils.						
<i>japonica albiflora</i> (Japanese White Spirea) ZONE 3-8 Height & Spread 1-2' Low growing. White blooms in summer. Flowers on new wood that is produced during current growing season. Prune early spring. Good border plant. Grows well in full sun or shade.						
<i>japonica alpina</i> (Daphne Spirea) ZONE 4-8 Height & Spread 15-18" Dainty, fine textured low growing shrub. Profuse clusters of light pink flowers. Full sun. Can be used to make a dense tight groundcover.						



DAPHNE SPIREA

GRADED BY WIDTH

Spiraea continued on next page...

Spiraea continued from previous page...

2' 18" 15" 12" 9" 6" 3"

japonica Golden Princess™ cv. 'Lisp' ZONE 3-8 Height & Spread 2-3' Yellow leaves appear on new red shoots and hold their color through summer. Bright pink flowers. Compact low form. Great in mass plantings, as groundcover or in rock gardens. Full sun. Conard-Pyle Co. introduction.

GRADED BY WIDTH

japonica 'Little Princess' (Little Princess Spiraea) ZONE 4-8 Height & Spread 2-3' Small, dense mounding form. Appearance is more robust with larger leaves and rose-crimson to white flowers. Purplish red fall color. Good border plant or as a groundcover. Full or partial sun.

japonica 'Magic Carpet' (P.P. 9363) ZONE 3-8 Height 18-24" Spread 2' New growth emerges red and turns to rich bronze foliage with red edges. Deep pink flower clusters. Compact form. Good orange-red fall color remaining into November. Prefers full sun. PlantHaven Inc. introduction

GRADED BY WIDTH

japonica 'Shirobana' (Shirobana Spiraea) ZONE 4-8 Height & Spread 2-3' Mounding summer bloomer with pink, white and deep rose clusters all on the same plant. Recurrent bloom even without pruning. Also known as 'Shibori'. Full sun.

nipponica 'Snowmound' (Snowmound Spiraea) ZONE 4-8 Height & Spread 3-5' Dwarf, bushy, tidy rounded habit. Dense dark blue-green foliage. Clusters of small white flowers. Full sun to part shade.

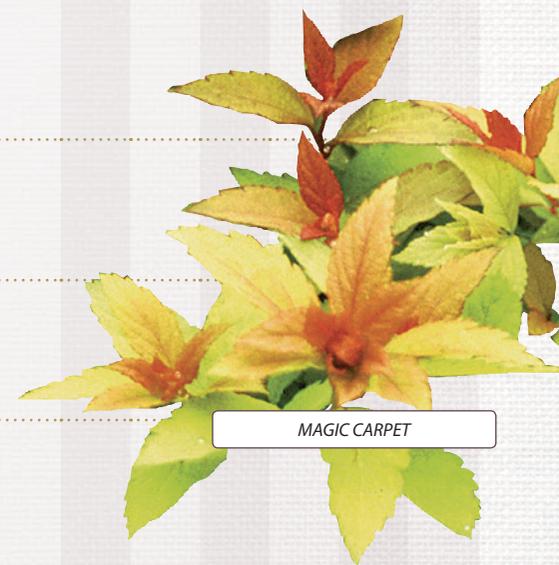
x bumalda 'Froebeli' (Froebel Spiraea) ZONE 3-8 Ht. 3-4' Spread 3' Vigorous spreading grower. Purplish tipped foliage in spring. Clusters of bright rosy-pink flowers in May-June. Best heat and drought tolerant of the Spiraeas. Prune back after spring flowering. Full sun.

x bumalda 'Goldflame' (Goldflame Spiraea) ZONE 4-8 Height & Spread 2-3' Bright golden spring foliage turns green in summer and copper-orange in fall. Clusters of pink flowers all summer. Full sun.

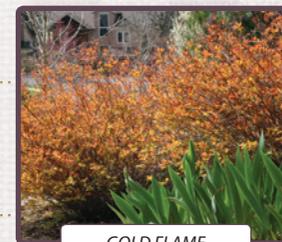
x bumalda 'Gold Mound' (Gold Mound Spiraea) ZONE 4-8 Height & Spread 2-3' Compact, soft-textured dwarf. Pink flowers in June-July. Outstanding lime yellow foliage. Full Sun.

GRADED BY WIDTH

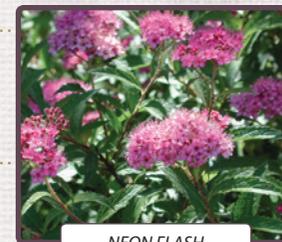
x bumalda 'Neon Flash' (Neon Flash Spiraea) ZONE 4-7 Ht. 2-3' Spread 3-4' Dark green with a hint of burgundy on the new foliage. Mounding compact form. Profuse clusters of reddish-pink flowers bloom throughout the season. Heavy pruning promotes repeated flowering. Tolerates most soil types. Prefers full sun.



MAGIC CARPET



GOLD FLAME



NEON FLASH

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Spiraea continued on next page...

Spiraea continued from previous page...

2' 18" 15" 12" 9" 6" 3"

x bumalda Anthony Waterer (*Sapho*) ZONE 4-8 Ht. 2-3' Spread 4-5' Identical to Anthony Waterer but is virus free. Blue green foliage is said to be free of the irregular variegation. Red to purple fall color. Upright rounded habit.

x vanhouttei 'Renaissance' (*Renaissance Spirea*) ZONE 3-7 Ht. 5-7' Spread 6-8' Improved selection of vanhouttei. Dark blue-green foliage. Orange-red in fall color. Vase shaped form. Tolerates adverse conditions. Disease resistant cultivar.

Symphoricarpos

3' 30" 24" 18" 15" 12"

albus (*White Snowberry*) ZONE 3-7 Ht. 4-5' Spread 3-5' Rounded form. Pink flowers in summer followed by heavy white berries. Blooms on old wood. Attracts butterflies and hummingbirds. Good for erosion control and native plantings. Full sun or shade.

orbiculatus (*Indiancurrant Coralberry*) ZONE 2-7 Height & Spread 3-4' Upright shrub with arching branches. Coral-red berries maturing in October and persisting late into winter. Excellent for erosion control. Native to Southeastern U.S. Drought tolerant. Full sun or shade.

x chenaultii 'Hancock' (*Chenault Coralberry*) ZONE 4-7 Ht. 2-3' Spread 6' Fine textured low growing shrub with profuse mauve colored berries appearing in fall. Larger than orbiculatus. Dark blue-green leaves. Very useful as a groundcover. Arching branches root where they touch soil. Will tolerate dry periods. Prefers full sun to partial shade.

GRADED BY WIDTH

Syringa Lilac

3' 2' 18" 15" 12" 9" 6" 3"

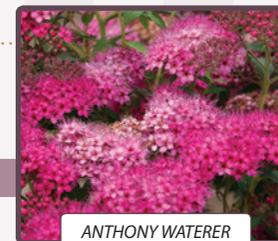
meyeri 'Palibin' (*Dwarf Korean Lilac*) ZONE 3-7 Height & Spread 3-4' Dwarf variety with small clean leaves. Fragrant 4" lavender panicles profusely cover the plant at an early age. Late bloomer. Very compact and hardy, great for small spaces. Dark red fall color. Mildew resistant. Full sun.
TREE FORM AVAILABLE PG. 44

patula 'Miss Kim' (*Miss Kim Lilac*) ZONE 4-7 Height & Spread 3-5' Fragrant lilac-pink flowers late after all others have finished. Hardy dwarf lilac. Great choice for small spaces. Burgundy-red fall color. Prefers moist well drained soil. Will adapt to dry periods. Full sun.
TREE FORM AVAILABLE PG. 44

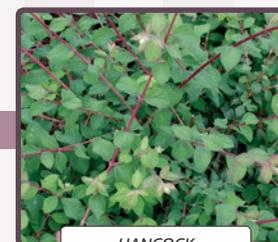
reticulata 'Ivory Silk' ZONE 3-8 Ht. 20-25' Spread 15' Compact, round dense form. Deep green foliage. Heavy white blooms mid-summer. Drought resistant.
TREE FORM AVAILABLE PG. 44

Tinkerbelle® cv. 'Bailbelle' (P.P. 12294) ZONE 4-7 Ht. 6' Spread 5'. Growth habit and bloom time similar to Dwarf Korean. Wine-red flower buds which open to pink. Bailey Nurseries introduction.
TREE FORM AVAILABLE PG. 43

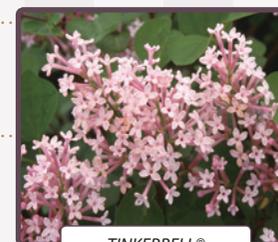
vulgaris (*Common Purple Lilac*) ZONE 3-7 Ht. 8-15' Spread 6-12' Makes a vigorous dense hedge or screen planting due to suckering habit. Mid-May deep purple flowers are very fragrant. Attracts hummingbirds. Heart shaped leaves. Old fashioned favorite. Prefers full sun.



ANTHONY WATERER



HANCOCK



TINKERBELL®

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Syringa continued on next page...

Syringa continued from previous page...

3' 2' 18" 12" 6"

vulgaris (French Hybrid Lilacs) ZONE 3-7 Ht. 10-15' Spread 6-12' Each are own rooted. Hybrids display blooms in numerous colors. Adapts to coastal and/or dry conditions. Prefers full sun. Drought tolerant and deer resistant.

'Adelaide Dunbar'	double, deep purple	highly fragrant
'Beauty of Moscow'	double, pink to white	fragrant
'Charles Joly'	double, red-purple	highly fragrant
'Ellen Willmott'	double, white	fragrant
'Katherine Havemeyer'	double, pink	highly fragrant
'Ludwig Spaeth'	single, deep purple	fragrant
'Mme. Lemoine'	double, white	fragrant
'Monge'	semi-double, deep purple	fragrant
'President Grevy'	double, blue	fragrant
'President Lincoln'	single, blue	highly fragrant
'Primrose'	single, creamy yellow	fragrant
*'Sensation'	single, bi-color, white, purple	fragrant
'Yankee Doodle'	single, deep dark purple	fragrant

*a percentage may revert to single color blooms

x prestoniae 'Donald Wyman' (Donald Wyman Lilac) ZONE 3-7 Ht. 6-8' Spread 4-6' Fringed bloom is purplish-lavender two weeks later than common lilac. Large leaves. Broad upright grower. Not fragrant. Full sun.

x prestoniae 'James MacFarlane' (James MacFarlane Lilac) ZONE 3-7 Ht. 6-8' Spread 4-6' Introduced by the University of New Hampshire. Flowers two weeks later than French hybrids. True pink. Lacy, fringed spikes. Blooms at a young age. Full sun.

x prestoniae 'Minuet' (Minuet Lilac) ZONE 3-7 Ht. 6-8' Spread 4-6' This hybrid grows half the rate as others. Nice dense rounded form. Large dark green leaves. Profuse fragrant light purple blooms. Does not sucker. Full sun.

x prestoniae 'Miss Canada' ZONE 3-7 Ht. 6-8' Spread 4-6' Deep reddish buds open to single true pink. Late flowering in mid-June. Prolific bloomer. Lightly fragrant. Upright, rounded form. Non-suckering and vigorous. Very hardy. Dr. Cumming, Morden Arb. Canada introduction.



MME. LEMOINE



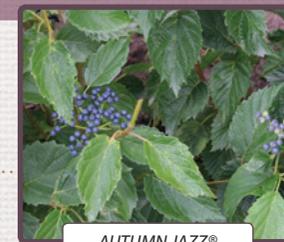
MONGE

Viburnum

2' 18" 12"

dent. Autumn Jazz® cv. 'Ralph Senior' (Autumn Jazz Arrowwood Viburnum) ZONE 3-7 Height & Spread 10-12' Upright, vase-shaped habit. Somewhat pendulous branching dark green foliage. Creamy-white flowers, followed by clusters of blue to black fruit. Fall color is yellow, orange and red. Most adaptable and trouble-free of the Chicagoland Grows® cultivars.

dent. Chicago Lustre® cv. 'Synnestvedt' (Chicago Lustre Arrowwood Viburnum) ZONE 3-7 Height & Spread 10-15' Rounded habit with glossy heavily cupped leaves. Cream-white flowers. Metallic blue fruit turns black. Yellow-gold fall color. Adaptable to alkaline, clay soils. Chicagoland Grows® cultivar.



AUTUMN JAZZ®

Viburnum continued on next page...

Viburnum continued from previous page...

3' 2' 18" 15" 12" 9" 6"

dent. Northern Burgundy® cv. 'Morton' (Northern Burgundy Arrowwood Viburnum) ZONE 3-7 Height & Spread 10-15' Broad upright-rounded habit. Wine-red to burgundy fall color. Creamy cup shaped white flower cap. Black-blue fruit. Adaptable to clay soils. Chicagoland Grows® cultivar.

lantana 'Mohican' (Mohican Viburnum) ZONE 4-8 Ht. 7-8' Spread 5-7' Compact, dense globe. Creamy-white huge flowers cover plant in May followed by orange-red fruit that eventually turns black. Bacterial leaf spot resistant. Full or partial sun.

lentago (Nannyberry) ZONE 2-8 Height & Spread 15-20' Upright open habit. Shiny foliage turning purple-red in fall. Blue-black fruits attract birds. Durable in many soils. Ideal for naturalizing. Full sun or partial shade. **TREE FORM AVAILABLE PG. 47**

opulus 'Compactum' (Compact European Cranberrybush) ZONE 3-8 Ht. 4-6' Spread 3-5' Dense rounded form stays globe-like. Flat white flower clusters in April-May. Persistent scarlet fruit. Maroon fall color. Multi-seasonal changes. Excellent for small spaces. Effective in mass plantings. Full sun.

opulus 'Nanum' (Dwarf European Cranberrybush) ZONE 3-8 Height & Spread 1-2' Finest rounded, mounding dwarf shrub. New leaves emerge bronze-green and turn to glossy medium green. Makes an excellent hedge or border. Tolerant of many soil conditions. No fruit or flowers. Prefers full sun.

opulus 'Sterile' (Common Snowball) ZONE 3-8 Ht. 8-10' Spread 6-8' Upright spreading multi-stemmed plant, rounding with age. A most popular old fashioned plant. Bright green foliage changes to vibrant red fall color. Pure white snowball-like flower clusters cover the shrub for a lengthy spring to summer period. No fruits. Prefers full sun. **TREE FORM AVAILABLE PG. 47**

plicatum var. Newport® cv. 'Newzam' (Newport Dwarf Doublefile Viburnum) ZONE 4-8 Height & Spread 4-6' Very compact and rounded. Large white snowball clusters, attractive dark green summer foliage and striking burgundy fall color. Leaves are much smaller than the species. Lake County Nursery 'ZAM' introduction.

plicatum var. tomentosum 'Mariesii' (Maries Doublefile Viburnum) ZONE 5-8 Ht. 8-10' Spread 6-8' Form is spreading, dense and horizontal. Distinctive creamy-white ray flowers above foliage late spring into summer. Fall color is striking red to purple. Sun or shade.

plicatum var. tomentosum 'Popcorn' (Popcorn Doublefile Viburnum) ZONE 4-8 Ht. 6-8' Spread 4-6' In May this great plant puts on a show of 6" white blossoms. The fluffy looking blossoms resemble popcorn balls, therefore the name. Produces a limited amount of red fruit. Fall color is purple-red.

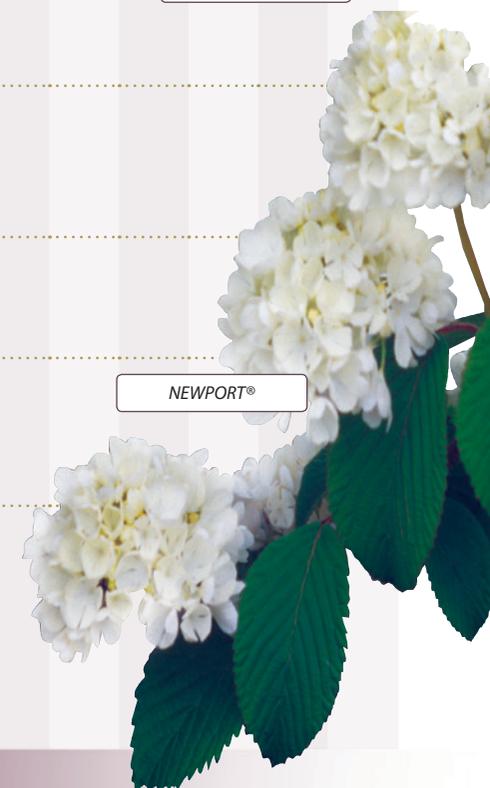
plicatum var. tomentosum 'Shasta' (Shasta Doublefile Viburnum) ZONE 5-8 Ht. 5-6' Spread 6-8' Wider than tall. Horizontal spreader. 6" flower clusters. Blooms late spring. Red fruit mature to black. Dark maroon fall color. Grows best in rich soil. Sun to partial shade. U.S. National Arboretum introduction.



NORTHERN BURGUNDY®



COMMON SNOWBALL



NEWPORT®

Viburnum continued on next page...

Viburnum continued from previous page...

3' 2' 18" 15" 12" 9" 6"

prunifolium (*Blackhaw Viburnum*) ZONE 3-9 Ht. 10-12' Spread 6-8' Large upright multi-stemmed densely twiggy shrub. Can be pruned to grow as a small tree. Creamy white flowers in flat-topped clusters to 4 1/2" across appear in spring. Flowers provide nectar for butterflies, native bees and other pollinators. Blue-black, berry-like fruits provide good food source for wildlife. Glossy dark green leaves. Shades of red and purple in fall. Grows well in dry soil. Full sun or part shade.

sargenti 'Onondaga' (*Onondaga Viburnum*) ZONE 4-7 Ht. 10-12' Spread 5-7' Velvety dark maroon new foliage turns green with a maroon tinge. Brilliant maroon fall color. Attractive cream-colored ray flowers late spring. Red fruit. Large rounded form. Full or partial sun. U.S. National Arboretum introduction.

trilobum 'Alfredo' (*Alfredo Compact American Cranberrybush*) ZONE 2-7 Ht. 5-6' Spread 3-5' Excellent compact form. Similar to trilobum 'Compacta' but with a denser, slightly broader form. Red fall color. Sparse flowering and fruiting. Full sun or shade.

trilobum 'Bailey Compact' (*Bailey Compact American Cranberrybush*) ZONE 2-7 Height & Spread 5-6' Compact columnar form rounds with age. Beautiful foliage turns deep red in fall. Flowers and fruit are insignificant. Hardy. Full sun or shade.

trilobum Redwing® cv. 'J.N. Select' (*Redwing® American Cranberrybush*) ZONE 2-7 Ht. 10' Spread 8' Upright, rounded form. New spring foliage is a nice tinted red color with white flowers in mid to late May. Persistent bright red fruit from late fall to early winter. Brilliant red fall color. A true trilobum, not a hybrid. Chicagoland Grows® introduction.

trilobum 'Wentworth' (*Wentworth Viburnum*) ZONE 2-7 Ht. 10-12' Spread 5-7' Selected trilobum cultivar for larger edible red fruits. Vigorous grower. White flowers late spring. Good screen plant. Full sun or shade.

x burkwoodii (*Burkwood Viburnum*) ZONE 3-7 Ht. 8-10' Spread 4-6' Upright open spread. Very fragrant flower clusters bloom early. Heat and cold tolerant. Outstanding varied red and orange fall leaf color. Prefers moist, slightly acidic soil.



ONONDAGA

Weigela

2' 18" 12" 6"

florida Carnival™ cv. 'Courtalor' (*Carnaval Weigela*) ZONE 4-8 Height & Spread 3-4' Profuse colorful red, white and pink flowers all in bloom at the same time. Very colorful tetraploid hybrid. Compact growth habit. Weigelas are great as background plantings, borders and summer screens.

florida Dark Horse (P.P. 14381) ZONE 4-8 Height & Spread 3' Full sun. Neat, compact habit. Bronze leaves hold their color well. Nice contrast with light green or yellow plants. Early summer blooms are deep pink and trumpet-shaped. Prefers moist, well-drained soils but drought tolerant once established. Deer resistant.

florida French Lace™ cv. 'Brigela' (P.P. 12666) ZONE 4-8 Ht. 3-4' Spread 3' Boldly variegated green and gold leaves. Deep red tubular flowers emerge in early spring. Conard-Pyle (Star® Roses) introduction.



WEIGELA CARNAVAL™

Weigela continued on next page...

Weigela continued from previous page...

2' 18" 12" 6"

florida 'Red Prince' (Red Prince Weigela) ZONE 4-8 Ht. 5-6' Spread 3-5' Upright arching grower. Bright red flowers recurring in late summer after its spring bloom. Dark green slender leaves. Wide spreading habit. Hardier than 'Vaniceki'. Full sun to part shade. Iowa State University introduction.

florida 'Variegata' (Variegated Weigela) ZONE 5-8 Ht. 4-6' Spread 3-5' Showy green and creamy-white coarse foliage makes this variegated form a very attractive accent. Pale pink, honey scented flowers bloom late spring. Prune after flowering like all Weigelas, removing oldest stems. Pinkish autumn hues. Popular and showy. Prefers full sun.



VARIEGATA

OUR CATALOG AND AVAILABILITY IS ON OUR WEBSITE. IF YOU WISH TO VIEW OUR CATALOG WITH PRICES TYPE IN THE PASSWORD: bareroot

CARLTON PLANTS SHRUB PROGRAM:

Shrub liners are planted out and field grown from one to three years depending on the variety. Most liners are propagated at Carlton Plants. Our grading guidelines conform to the American Nursery and Landscape Association Standards.

All sizes are represented as minimum grades.

DWARF SHRUB SIZES

3" = 3-6"
 6" = 6-9"
 9" = 9-12"
 12" = 12-15"
 15" = 15-18"
 18" = 18-24"
 24" = 24-30"

Dwarf shrubs are graded in 3" increments up to 18" and in 6" increments beyond that size.

STANDARD SHRUB SIZES

3" = 3-6"
 6" = 6-12"
 12" = 12-18"
 18" = 18-24"
 2' = 2-3'
 3' = 3-4'

Standard shrubs from 6" are graded in 6" increments up to 24" and 12" increments above 24".





VINES

Vines can sometimes seem to be a minor part of a landscape, but in fact are an important structural element. Their versatility and range of use is remarkable. Without taking up much space, they can soften an entire building, control erosion on a steep bank, or cover

an unattractive area. In addition, they offer beautiful flowers in many colors and fragrances. Leaf textures, berries for birds and spectacular fall color are just a few of the attributes vines have to offer. Take a look at our increasingly diverse and ever growing list of hardy vines.



Campsis Trumpet creeper

#1 MED #2

radicans (Trumpet creeper) ZONE 4-9 Ht. 30-50' Showy, orange-red trumpet flowers in late summer. Self-clinging. Can be trained into shrub form. Prune late winter. Blooms on new seasons growth. Great quick screen or groundcover. Attracts hummingbirds. Does well in alkaline soil. Full sun.

Hydrangea

#1 MED #2

anomala petiolaris (Climbing Hydrangea) ZONE 5-8 Ht. 75' Creamy-white, sterile ray florets enclose fertile flowers. Thick, sturdy stems. Bright yellow fall color. Attractive shredding bark. Shade tolerant. Does well in alkaline soils. Aerial roots, attach to walls or trees without harm. Groundcover use also.

Lonicera Honeysuckle

#1 MED #2

x brownii 'Dropmore Scarlet' ZONE 3-8 Ht. 10-15' Bright scarlet-orange tubular flowers bloom from early summer until autumn. Leaves are gray underneath. Very colorful and vigorous. Can be used as a mounding groundcover. Attracts hummingbirds. Prefers full sun and warm walls.

x heckrottii 'Goldflame' ZONE 5-9 Ht. 10' Flowers are borne in terminal clusters which are coral-pink on the outside with purple and yellow on the inside. Blooms from early summer to late fall. Fragrant. Leaves are glaucous underneath and extremely frost tolerant. Tolerates light shade.

x 'Mandarin' (Mandarin Honeysuckle) ZONE 4-8 Ht. 18-20' Spread 3-4' Beautifully intense unscented mandarin orange flowers with yellow anthers complement the deep green foliage. Plant next to a scented variety for the best effect of both. Disease resistant.

Parthenocissus

#1 MED #2

quinquefolia (Virginia Creeper) ZONE 4-9 Ht. 40' Persistent, brilliant scarlet leaf color in autumn. Purple-blue berries attract wildlife. Thrives in poor soils, sun or shade, cold or hot climates. Tolerates pollution and salt. Used as a groundcover or self-clinging climber. Ideal for walls or pillars.

tricuspidata (Boston Ivy) ZONE 4-8 Ht. 60' Soft green, glabrous leaves turn to vivid autumnal colors. Similar to *quinquefolia* except for shape of leaves, simple, three lobed, 3-8" wide. Vigorous self-clinging vine. Easily climbs stone work, buildings and trees. Berries are blue-black and attract birds.

Wisteria

#1 MED #2

frutescens Amethyst Falls ZONE 5-9 Ht. 15-20' Beautiful, fragrant lavender blue flowers. Blooms are later than *sinensis* and *floribunda* varieties with flowers after the foliage has developed. This is a handsome plant in leaf and flower. **TREE FORM AVAILABLE PG. 47**

macrostachys 'Aunt Dee' (Aunt Dee Wisteria) ZONE 4-8 Height 15-20' Light lilac-purple, 7-12" fragrant flower clusters late May-June. Later, longer flowering period. Blooms are borne on current seasons shoots. Needs support to grow on. Prefers moist, fertile, well drained soil and full sun.

TREE FORM AVAILABLE PG. 47



TRUMPETCREEPER



GOLDFLAME



BOSTON IVY

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VOLUME
SCHEDULE
2014-2015
REBATE

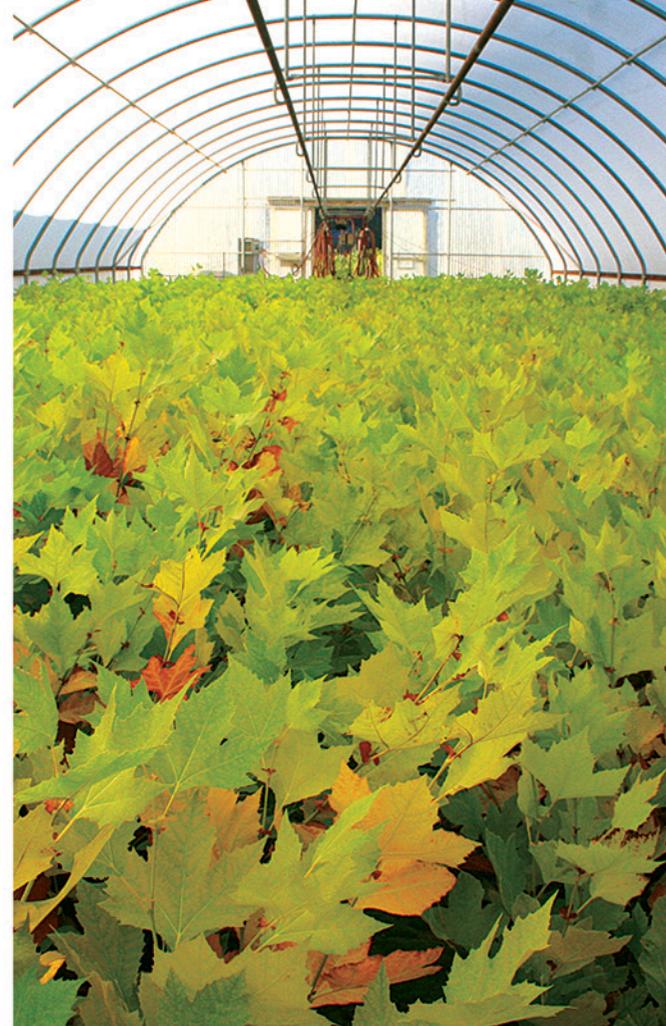




ROOTSTOCKS & SEEDLINGS

- SOFTWOOD CUTTINGS
- HARDWOOD CUTTINGS
- LAYERS
- SEEDLINGS

- ROOT SECTIONS
- BUDDING & GRAFTING
- TISSUE CULTURE





VIRUS CERTIFICATION: YOUR PASSPORT TO FOREIGN AND DOMESTIC MARKETS

Our understocks are grown and tested under conditions consistent with those required by rules for virus certification of Oregon and Washington, as well as many foreign countries. These plants are propagated by cuttings or scions known to be free of all listed viruses covered under the international IR-2 certification program. Regular, scheduled inspections of scion trees and understocks ensures that the plants produced from these blocks will meet the requirements of tomorrow's market. All fruit rootstocks grown by Carlton have been virus indexed on an annual basis to ensure their classification. The expansion of our virus certified program is just one more way that Carlton is committed to bringing you quality plants every time.

COLD STORAGE

In 1999 the Carlton propagation department took a quantum leap forward with the construction of a new seedling grading and cold storage warehouse. In 2005 we took another large step, by doubling the size of this facility increasing the workspace and cold storage areas. This expansion will serve to enhance efficiency and expand our production. Humidified cold storage helps to keep material dormant, hydrated and ready to perform well when planted.

TOPPING HEIGHTS

Layers are topped at 22" above the root. Other rootstocks are topped at various heights depending on variety. We also offer "long-top" rootstocks in clonal apples and mazzard cherries for top-grafting flowering and fruiting varieties. These and other requests concerning rootstocks, not to be topped, are available only by special order. Please ask us about program specifics.

CONSERVATION GRADE PLANTS

Conservation grade plants are utilized for erosion control, restoration projects, wildlife habitat, plant sales, education, Arbor Day promotions, shelter belts and hedging. Uniformity is slightly less than our liner grade seedlings. This product line provides a good quality plant at an affordable price.

GRADING & BUNDLE SIZES

GRADE	CALIPER	PLANTS / BUNDLE
3/4"	3/4"–Up	25
5/8"	5/8"–3/4"	25
1/2"	1/2"–5/8"	25
3/8"	3/8"–1/2"	50
1/4"	1/4"–3/8"	50
#1	3/16"–1/4"	100
#2	1/8"–3/16"	100



VOLUME REBATE SCHEDULE

The percent of rebate (based on established catalog prices less royalties), will be based on the total eligible dollar value of stock invoiced during that season. A rebate check for the earned rebate will be issued after all accounts are paid in full. Any accounts not paid in full by August 25 will forfeit all rights to a volume rebate.

Prepaid freight, royalty and patent charges, boxing and packing charges, fumigation charges, credit memorandums, all discounts and all specially priced orders or specific items not eligible for a volume rebate are excluded from the total purchase amount. All rebates will be based on the discount schedule listed here.

TOTAL PURCHASE	REBATE
\$0 — \$4,000	0%
\$4,000 — \$8,000	3%
\$8,000 — \$12,000	5%
\$12,000 — \$16,000	7%
\$16,000 — \$24,000	10%
\$24,000 — \$32,000	13%
\$32,000 — \$48,000	15%
\$48,000 — \$80,000	18%
\$80,000 — \$120,000	20%
\$120,000 — \$160,000	22%
\$160,000 — \$240,000	23%
\$240,000 — & UP	25%



CARLTON ROYALTY FEES: ALL ROYALTY FEES ON REGISTERED, PATENTED AND TRADEMARKED PLANTS ARE INCLUDED IN THE UNIT PRICE AS LISTED IN THE CATALOG.

	3/8"	1/4"	#1	#2	#3	SHRUB FORM	18-24"	12-18"	6-12"	3-6"
<i>Amelanchier canadensis</i> Shadblow Serviceberry										
<i>Shadblow Serviceberry</i> ZONE 3-8 Ht. 6-20' Spread 10-15' Tall upright, suckering habit. White flowers bloom early before foliage. Purplish-black, juicy, edible berries in summer attract birds. Variable yellow-orange to red fall color. Preferred for naturalistic and wetland plantings. Will tolerate dry conditions once established. Prefers full sun to partial shade.									- CONSERVATION -	<input type="text" value="< 18"/> <input type="text" value="> 18"/>
<i>Amelanchier laevis</i> Allegheny Serviceberry										
<i>Allegheny Serviceberry</i> ZONE 4-8 Ht. 20-30' Spread 15-20' Upright, open form with white blooms, edible deep-purple fruit and orange-red fall color. Minimal suckering. Suitable as a street tree, shrub or ideal for naturalizing. Partial shade to full sun.									- CONSERVATION -	<input type="text" value="< 18"/> <input type="text" value="> 18"/>
<i>Amelanchier lamarckii</i> Lamarck Serviceberry										
<i>Lamarck Serviceberry</i> ZONE 4-8 Ht. 20-30' Spread 10-15' White flowers in April turn to sweet edible, purple-black 3/8" fruits. New leaves are copper colored and silky. Fall color is bronze-orange. Prefers acidic to neutral soils. Tolerates dry spells once established. Full sun to partial shade. Excellent wildlife selection.									- CONSERVATION -	<input type="text" value="< 18"/> <input type="text" value="> 18"/>
<i>Betula papyrifera</i> Paper Birch										
<i>Paper Birch</i> ZONE 2-7 Ht. 35-40' Spread 20' Loose pyramidal form. Fast growing. Creamy white paper thin exfoliating bark is very handsome in winter. Salt tolerant. Prefers moist, acidic, silty soil, but is easily adaptable. Full sun.									- CONSERVATION -	<input type="text" value="< 18"/> <input type="text" value="> 18"/>
<i>Caragana arborescens</i> Siberian Pea Shrub										
<i>Siberian Pea Shrub</i> ZONE 2-7 Ht. 15-20' Spread 12-18' Large shrub or small tree with fine foliage. Small yellow flowers mid-April into May. Very cold hardy. Often used as a windbreak or screen.										
<i>Carpinus betulus</i> European Hornbeam										
<i>European Hornbeam</i> ZONE 5-7 Ht. 30-40' Spread 20' Young pyramidal form, rounded with age. Prefers deep moist acidic soil, but is tolerant of most conditions. Insect and disease resistant. Used mostly as an understock.									- CONSERVATION -	<input type="text" value="< 18"/> <input type="text" value="> 18"/>
<i>Carpinus caroliniana</i> American Hornbeam										
<i>American Hornbeam</i> ZONE 3-9 Ht. 25-30' Spread 20' Dense, rounded form with smooth sinuous bluish-gray bark. Slow grower. Branches are spreading and arching at the tips. Yellow-orange fall color. An excellent tree for small areas.									- CONSERVATION -	<input type="text" value="< 18"/> <input type="text" value="> 18"/>
<i>Celtis occidentalis</i> Common Hackberry										
<i>Hackberry</i> ZONE 2-7 Ht. 30-40' Spread 30' Rounded open form with elm-like foliage. Moderate to rapid growth rate. Tolerates dry alkaline soils and windy conditions. Very hardy. Red berries attract birds.									- CONSERVATION -	<input type="text" value="< 18"/> <input type="text" value="> 18"/>
<i>Cotoneaster lucidus</i> Peking Cotoneaster										
<i>Peking Cotoneaster</i> ZONE 2-7 Height & Spread 6-8' Upright vigorous shrub. Very hardy. Dark green foliage turns red in fall. Pink-white blooms. Shiny red to black fruit in fall. Suitable for hedging and screens. Prefers full sun to part shade. <i>This plant has often been incorrectly referred to in the trade as C. acutifolius.</i>									- CONSERVATION -	<input type="text" value="< 18"/> <input type="text" value="> 18"/>

Malus Apple

3/8" 1/4" #1 #2

M9-NIC® 29 (RN-29) (P.P. 10714) ZONE 6-8 and ZONE 5 in protected areas. This new M9 rootstock from Belgium was selected for its superior rooting and transplanting qualities along with its excellent growth rate similar in characteristics and size to M9-337. It has slightly more vigor allowing early and heavy production. As with all M9's, it requires staking or a support system and is more resistant to crown rot than other apple rootstocks. This rootstock is fast becoming one of the most popular clones asked for in the M9 family and is the most dwarfing apple rootstock we grow.

VIRUS CERTIFIED

M9-337 ZONE 5-8 Originated in Europe. This is a true dwarfing rootstock, 30-35% of standard. Early cropping and precocious with large fruit. Tolerant of heavy soils but should be used in light soils if adequate moisture is provided. Brittle roots and poor anchorage requires support of staking or trellising.

VIRUS CERTIFIED



Malling 26 (M26) ZONE 4-8 This rootstock is considered a dwarf, but is more vigorous than Malling 9 with a stronger root system. Generally it is free standing (not requiring a stake), but with a heavy fruit set can lean in very windy areas. M26's resistance to disease varies from area to area but has fared quite well in the western states. Fireblight can be a problem in eastern states where it strikes apple trees. M26 is considered shallow rooted and therefore subject to drought stress. It has little tolerance of heavy, excessively acid, or unusually wet or dry soils. Proper irrigation management is necessary for trees on this rootstock. M26 is highly susceptible to wooly aphid, which is seldom a problem in orchards. M26 is one of the hardiest of the malling series.

VIRUS CERTIFIED

Malling 7 (M7) ZONE 4-6 One of the most desirable rootstocks when factors such as production efficiency, longevity, ease of propagation, hardiness, compatibility and disease resistance are considered. It is susceptible to collar rot, but much less so than MM106. Support is recommended in the first 5 to 10 years if planted on a very windy site or in poor soil. M7 is considered to be semi-dwarf, producing a tree that can be kept at a reasonable size with normal pruning. It does well in most soils except heavy clay. M7 tends to produce root suckers especially in shallow plantings.

VIRUS CERTIFIED

Malling Merton 106 (MM106) ZONE 6-8 This is a fairly vigorous rootstock with more vigor than M7, putting it into the semi-standard class. MM106 crops early, requires no tree support and is wooly aphid resistant. Its resistance to collar-rot varies from area to area. MM106 resists collar-rot quite well in Washington State where copper trunk paints are applied, but appears to be quite susceptible to more virulent strains in parts of British Columbia. MM106 is susceptible to mildew and is relatively sensitive to cold, heat and drought. It is late to defoliate. MM106 requires a well drained soil and good soil management. This rootstock is an excellent choice for spur type trees and does not tend to sucker.

VIRUS CERTIFIED

Malling Merton 111 (MM111) ZONE 4-8 Like MM106, this rootstock is considered semi-standard making it an easy to maintain tree size. It has early and prolific cropping like the MM106 and is more resistant to collar-rot. Another main advantage with MM111 is that it is virtually non-suckering. It is well anchored, requires no tree support and is drought tolerant. MM111 is resistant to wooly apple aphids and adapts to most soil conditions. It is an excellent choice for spur type trees.

VIRUS CERTIFIED

Dolgo ZONE 2-8 Ht. 30-40' Spread 20-30' Upright spreading form. Large 1 3/4" fragrant single white flowers. Large egg shaped red-purple 1 1/4" fruit. Fruit ripens in August-September. Excellent for jelly. Popular pollinizer for early to mid-season apple varieties. Extremely hardy. Good disease resistance. Golden yellow bark. Introduced by the S. Dakota experimental station.

VIRUS CERTIFIED

Malus continued on next page...

Malus continued from previous page...

3/8" 1/4" #1 #2 #3

domestica ZONE 5-8 and ZONE 4 in protected areas. Cold hardy to about -30° F. Lower temperatures will injure fruit buds along with wood and can kill the trees. Domestica rootstocks can be grown in protected areas in Zone 4 and do very well in Zone 5. This rootstock has been requested by commercial apple producers to ensure more vigor with the less vigorous spur type Red Delicious strains. Some of these strains are known to "runt out" on less vigorous Malling rootstocks. Domestica rootstock is used extensively in budding ornamental crabapples and is known for its ease of budding, grafting and compatibility.

VIRUS CERTIFIED

SproutFree® ZONE 3 A new and exciting Malus rootstock for flowering crabapples. Sproutfree® is a highly sucker resistant rootstock, allowing for significant time and labor savings. It is a vigorous full size producing rootstock that contributes to a well anchored root system. (For more information on SproutFree® see page 28.) Carlton Plants introduction.



VIRUS CERTIFIED

Platanus x acerifolia London Planetree

3/8" 1/4" #1 #2 #3

Bloodgood (London Planetree) ZONE 4-8 Ht. 50-80' Spread 30-40' Wide spreading, open form. Medium to dark green foliage. Exfoliating bark. Rapid growing. Greater resistance to anthracnose than the species. Tolerates soil compaction, heat and drought. Hardwood cuttings.

Prunus avium Mazzard Cherry

3/8" 1/4" #1 #2 #3

Mazzard Cherry ZONE 4-8 Mazzard rootstocks have proven to be reliable in all climates where cultivated cherries thrive. It has a spreading root habit that tolerates heavier soils and is the preferred rootstock in soils too heavy for Mahaleb. It is generally considered to be a standard size controlling understock that can be kept down in size by pruning at a young age. Mazzard is superior to Mahaleb in regards to its ability to resist many common cherry diseases. It is susceptible to crown gall and bacterial canker, but is resistant to root knot nematodes. It is moderately resistant to oak root fungus and somewhat resistant to phytophthora. This rootstock has few root suckers.

VIRUS CERTIFIED

Prunus cerasifera Myrobalan Plum

3/8" 1/4" #1 #2 #3

Myrobalan ZONE 4-8 A plum seedling used for budding standard prunes, plums and ornamental plum varieties.

VIRUS CERTIFIED

Myrobalan M29C ZONE 4-8 Ht.15-30' Spread 15-25' Prunus cerasifera is a popular understock used for growing standard prunes, plums and ornamental plum varieties. M29C is a very vigorous rootstock. The M29C's main advantages are its ability to provide uniform tree size, strong anchorage and nominal root suckering. This rootstock is moderately resistant to crown rot and more resistant to crown gall than myrobalan seedlings. M29C is commonly used for heavy soils that tend to be wet. Small flowers produce edible, small fruits. Hardwood cuttings.

VIRUS CERTIFIED

Prunus insititia St. Julian Plum

3/8" 1/4" #1 #2 #3

St. Julian Plum ZONE 4-8 Ht.15-25' Prunus insititia is an outstanding rootstock selection for apricots, nectarines, peaches, plums and prunes. It solves many of the problems associated with using Lovell peach (Prunus persica), Western Sand Cherry (Prunus besseyi) and Nanking Cherry (Prunus tomentosa). Lovell Peach has problems on poorly drained soil, while the latter two varieties have compatibility and poor root to tree connection problems along with productivity and anchoring problems. St. Julian has long been used in Northern Europe on heavy, wet clay soils and has good compatibility with all of our varieties. It is long lived and tolerates wet feet as well as drought conditions. This rootstock produces a tree that grows to be 80 to 85% the size of a standard tree (considered semi-dwarf), but can be held at 7 to 10 feet when properly pruned. St. Julian is related to the Damson plum of Northern Europe. It produces a well anchored tree that requires no support. Hardwood cuttings.

VIRUS CERTIFIED

Prunus mahaleb Mahaleb Cherry

3/8" 1/4" #1 #2 #3

Mahaleb Cherry ZONE 4-8 Mahaleb rootstocks are deep rooted and prefer sandy, well drained soils. They produce large, vigorous trees considered semi-standard. Mahaleb has a reputation of being sensitive to wet feet and high water tables. Long wet rainy spells can activate water molds making it a bad choice in areas with high rainfall. It is drought tolerant, somewhat resistant to crown gall, bacterial canker and root lesion. Mahaleb is susceptible to oak root fungus, root knot nematodes and phytophthora. It is more attractive to rodents than Mazzard. Native to southern Europe.

VIRUS CERTIFIED

Prunus tomentosa Nanking Cherry

SHRUB FORM 18-24" 12-18" 6-12" 3-6"

Nanking Cherry ZONE 2-7 Ht. 6-10' Spread 5-7' Broad, spreading, medium sized shrub. Dense habit with many stems and branches. Fragrant, showy, single, light-pink to white blooms in late March or early April attract bees. Edible 1/3" scarlet-red fruit in June - July attract birds. Plant several shrubs to achieve cross pollination and fruit production. Dark green leaves are tomentose underneath, as are the young shoots. Exfoliating red-brown bark. Used as a specimen or as a flowering hedge. Easily maintained as a hedge by shearing. Very cold hardy and drought resistant. Not particular regarding soil types. Best grown in full sun.

Prunus x cistena Purpleleaf Sand Cherry

3/8" 1/4" #1 #2 #3

Purpleleaf Sand Cherry ZONE 3-8 Height & Spread 6-8' Large, upright shrub. Single 1/2" light-pink fragrant flowers late spring. Occasional black-purple fruits. Reddish-purple foliage throughout summer. Commonly used for hedges and screens. New growth from cut back stems show best coloration. Does great in tough climates. Not particular regarding soil types. Full sun. Hardwood cuttings.

VIRUS CERTIFIED

Pyrus Flowering Pear

3/8" 1/4" #1 #2 #3

Communis ZONE 4-8 Ht. 30-40' The species all common pears are derived from is often called Common or European pear. It is susceptible to fireblight in certain locations. This rootstock has a strong vertical branching habit and is very long lived. Communis takes damp, heavy soils better than some varieties and is resistant to oak root fungus. This rootstock is cold hardy, excellent for espaliers and tolerant of pear decline.

VIRUS CERTIFIED

Pyrus continued on next page...

Pyrus continued from previous page...	3/8"	1/4"	#1	#2	#3
<p><i>Ussuriensis</i> ZONE 4-8 Ht. 20-30' Commonly called the Stone Pear, it originated in northern Asia and was brought to America as early as 1900. The first recorded commercial planting was at Marysville, California in 1919. It was very successful and became widely used. Produces inedible 1 1/2" green fruits. <i>Pyrus ussuriensis</i> is fireblight resistant making it a valuable ornamental rootstock. It can be susceptible to pear decline and is not recommended for mild climates because it goes dormant in late summer. Winter temperatures in Northern Asia can go below -35° F. This variety is cold hardy to Zone 4 and said to be the hardest of all pears.</p> <p style="text-align: center;">VIRUS CERTIFIED</p>					
<p><i>Rhamnus frangula</i> Buckthorn</p>	SHRUB FORM	18-24"	12-18"	6-12"	3-6"
<p><i>Columnaris</i> (<i>Columnar Buckthorn</i>) ZONE 3-7 Ht. 12-15' Spread 3-5' Narrow, oval upright growth habit. Dense, lustrous, dark green foliage turns yellow in fall. Thornless. Attractive red to purple-black fruit. Good hedge or screen plant. Full to part sun.</p>					
<p><i>Rhus glabra</i> Smooth Sumac</p>	TREE FORM	3/8"	1/4"	#1	#2 #3
<p><i>Smooth Sumac</i> ZONE 2-7 Ht. 6-8' Spread 3-5' Slower growing and smaller than typhina. Spreads by suckers. White, female bloom spikes turn to red fuzzy seed heads. Stems are smooth, not hairy like typhina. Orange, red and purple color combinations in fall. Tolerates drought along with salty and alkaline conditions. Full sun or shade.</p>					
<p><i>Rhus typhina</i> Staghorn Sumac</p>	SHRUB FORM	18-24"	12-18"	6-12"	3-6"
<p><i>Staghorn Sumac</i> ZONE 3-8 Height & Spread 15-20' Shrub form is open, spreading and suckering. Clusters of fuzzy bronze torch-shaped seed heads on tips of branches on female plants. Stems covered with dense velvet hair. Medium green leaves turn vivid orange-scarlet in fall. Sun or shade.</p>					
<p><i>Robinia pseudoacacia</i> Black Locust</p>	3/8"	1/4"	#1	#2	#3
<p><i>Black Locust</i> ZONE 4-8 Ht. 30-75' Spread 20-50' Very tough tree adapts to adverse climates and soil conditions. Upright, open form. Triangular thorns at the nodes on the branches. Pea-like, fragrant white blooms in mid-June turn to flat, brown, paper thin, 2-4" pods. Salt resistant and drought tolerant. Used as a rootstock for many interesting, colorful varieties.</p>					
<p><i>Rosa rugosa</i> Hardy Roses</p>	SHRUB FORM	18-24"	12-18"	6-12"	3-6"
<p><i>rugosa</i> (<i>Red Rugosa Rose</i>) ZONE 2-8 Ht. 4-6' Spread 3-5' Large, red-purple, fragrant flowers produced throughout summer. Brilliant green leaves. Gold colored foliage in fall. Large orange and red hips. Can form a tall hedge. Tolerates dry soil. Very hardy. Full sun</p>					

Rosa continued on next page...

<i>Rosa rugosa</i> continued from previous page...	SHRUB FORM	18-24"	12-18"	6-12"	3-6"																	
<i>rugosa Alba (White Rugosa Rose)</i> ZONE 3-7 Ht. 4-6' Spread 3-5' Large, fragrant, pure white flowers. Dense deep-green leaves turn orange-yellow in fall. Large red hips. Will grow in partial shade. Very disease resistant to mildew and blackspot. Great for the midwest. Hardy and dependable.																						
<i>Sorbus aucuparia</i> European Mountain Ash		3/8"	1/4"	#1	#2	#3														- CONSERVATION -		
<i>European Mountain Ash</i> ZONE 3-7 Ht. 30-35' Spread 15-20' Rounded open form. Attractive white flower clusters. Fall brings abundant red-orange pendulous corymbs of fruit which attract birds. Autumn foliage color is red-purple to orange. Prefers well drained, moist, acidic soils. pH adaptable. Full sun to partial shade. Used as an understock.																					< 18" >18"	
<i>Syringa reticulata</i> Japanese Tree Lilac		3/8"	1/4"	#1	#2	#3															- CONSERVATION -	
<i>reticulata</i> ZONE 3-7 Ht. 25' Spread 20' Oval to rounded small tree. Showy white flowers with a delicate fragrance are borne in early to mid-June. One of the most trouble-free lilacs, this small tree would make a great focal point in any landscape. Prefers full sun.																						< 18" >18"
<i>Syringa vulgaris</i> Common Purple Lilac	SHRUB FORM	18-24"	12-18"	6-12"	3-6"																	- CONSERVATION -
<i>Common Purple Lilac</i> ZONE 3-7 Height & Spread 12-15' Makes a vigorous dense upright hedge or screen planting due to its suckering habit. Fragrant, deep purple flowers in mid-May attract hummingbirds. Heart-shaped leaves. Prefers fertile well drained neutral soils but pH adaptable. Prefers full sun.																						>18"
<i>Tilia cordata</i> Littleleaf Linden		3/8"	1/4"	#1	#2	#3																- CONSERVATION -
<i>Littleleaf Linden</i> ZONE 3-7 Ht. 40-50' Spread 25-30' Dense pyramidal to broadly round form. Leaves dark green with silver underside. Pollution tolerant and pH adaptable. Used extensively as an understock.																						< 18" >18"
<i>Tilia tomentosa</i> Silver Linden		3/8"	1/4"	#1	#2	#3																- CONSERVATION -
<i>Silver Linden</i> ZONE 4-7 Ht. 40-60' Spread 30-40' Heavy, upright, oval tree. Erect branches. Dark green sharply toothed foliage with silvery-white tomentose beneath. More tolerant of heat and drought compared to other lindens and less prone to insects than other species. Also used as an understock.																						< 18" >18"
<i>Ulmus pumila</i> Siberian Elm		3/8"	1/4"	#1	#2	#3																- CONSERVATION -
<i>Siberian Elm</i> ZONE 4-9 Ht. 50-70' Spread 40-50' Upright open habit with pendulous branchlets. Fast growing. Extremely tolerant of heat and cold. Resistant to Dutch elm disease and necrosis. Used as an understock.																						< 18" >18"
<i>Zelkova serrata</i> Japanese Zelkova		3/8"	1/4"	#1	#2	#3																- CONSERVATION -
<i>Japanese Zelkova</i> ZONE 5-8 Ht. 50-80' Vase shaped tree with good foliage, interesting growth habit and handsome bark. Leaves are ovate to oblong-ovate, dark green in summer and yellow-orange to brown in fall. Well suited to lawns, residential streets, parks and large areas. Resistant to Japanese beetle. Used as an understock.																						< 18" >18"



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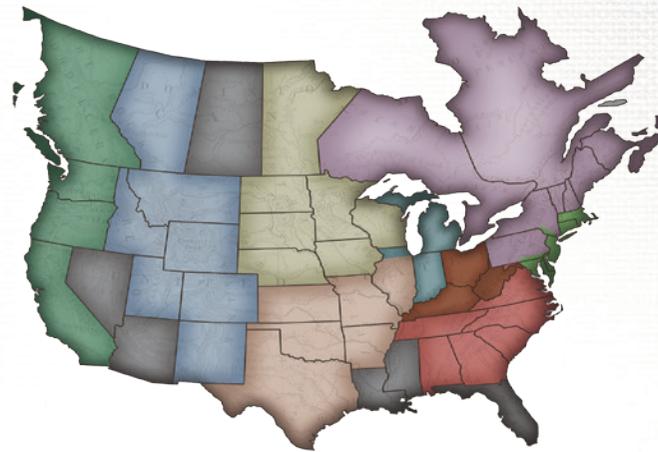
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On the back cover, clockwise from left to right: Marilee, Sugar Tyme, Emerald Spire, Coralburst



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