



Success Through Innovation...



WHOLESALE GROWERS OF HIGH QUALITY BAREROOT
DECIDUOUS SHADE, FRUIT, AND FLOWERING TREES, SHRUBS, ROOTSTOCKS & SEEDLINGS

2009-2010 CATALOG | DAYTON, OREGON  WWW.CARLTONPLANTS.COM

Dayton, Oregon Since 1890



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



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.



WHOLESALE GROWERS OF HIGH QUALITY BAREROOT
DECIDUOUS SHADE, FRUIT, AND FLOWERING TREES, SHRUBS, ROOTSTOCKS, AND SEEDLINGS



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Specialty Ornamental Trees*
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*Our catalog and availability listing is now on our website.
If you wish to view our catalog with prices, type in the password: bareroot.*

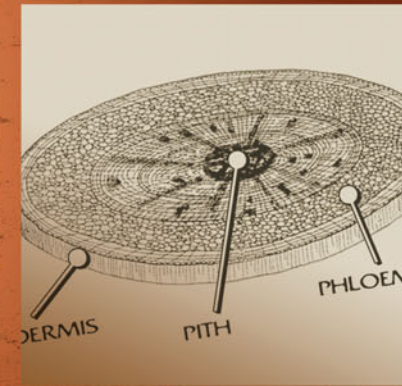
14301 SE WALLACE ROAD P.O. BOX 398 DAYTON, OREGON 97114 ☎ TOLL FREE | 800.398.8733 FAX | 800.442.1452

SALES REPRESENTATIVES ON PAGE 94 & BACK OF CATALOG

starch testing undercutting
COLD STORAGE
selection



- *Quality Seed from Proven Sources*
- *Virus Certified Layers and Stock Blocks*



At Carlton Plants Good Beginnings Make for Strong Finishes...

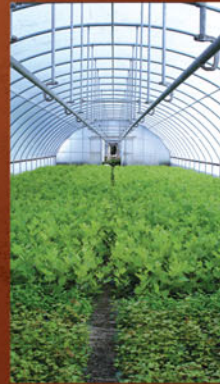
CHARACTERISTICS FOR QUALITY SUCCESS

- *True to Name Stock*
- *Disease and Insect Free*
- *Virus Certified*
- *Generous Grades*
- *Fibrous Roots*
- *Straight Stems*

quality
PERFORMANCE value
innovation



- Stringent Grading and Quality Control Standards
- Starch Testing to Determine Dormancy
- Environmentally Controlled Cold Storage
- Highly Experienced, Dedicated & Skilled Staff



If Good Beginnings Make for Strong Finishes, nowhere is that more apparent than in the area of plant propagation. The end product can never be better than the starting point, whether it is a seedling, graft, layer, hardwood or softwood cutting. Propagation

is where it all begins at Carlton Plants. Much time is spent planning and researching new equipment and techniques to increase efficiency and streamline processes. Cutting edge equipment is allowing us to do more with

existing resources.

The final trait is quality which for us is defined as the pursuit of something which is superior, in the plants we produce to sell and also in the customer relationships we develop. Quality is our daily commitment

and our longest running goal.

Plant propagation is inherently humbling while providing a satisfaction that is extremely profound. We are privileged to work in this area and are pleased to be able to share the results with you.



Terms of Business

FALL 2009 - SPRING 2010

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 Carlton 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. Previous seasons accounts must be paid in full before orders for future delivery can be booked.

Trees greater than 4'b 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, and Discover.

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 OR 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

PLEASE CALL 1.800.398.8733

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 THROUGH OUR SHIPPING DEPARTMENT.

NEW! Product Listing

TREES PG 8	PAGE	FRUIT TREES PG 46	PAGE
Acer campestre Queen Elizabeth™	9	Semi-Dwarf Apple Zestar!® (H)	50
Acer rubrum Autumn Spire (A)	11		
Acer tataricum Hot Wings® Multi-Stem (B)	12		
Amelanchier Rainbow Pillar® (C)	14	SHRUBS & ROSES PG 52	PAGE
Celtis occidentalis Chicagoland®	17	Forsythia x int. Spring Glory	60
Cercis canadensis 'Forest Pansy' (D)	17	Hydrangea quercifolia Snowflake	63
Corylus avellana Fusco-rubra	18	Itea virginiana Little Henry®	64
Liquidambar styraciflua Slender Silhouette	23	Parrotia persica Ruby Vase®	65
Malus Cardinal (E)	26	Rhus typhina Tiger Eyes® (G)	68
Metasequoia 'Gold Rush' (F)	31		
Physocarpus opulifolius Centerglow®	31	ROOTSTOCKS & SEEDLINGS PG 80	
Physocarpus 'Seward' Summer Wine®	32	Alnus glutinosa Black Alder	84
Platanus acerifolia Exclamation!™	32	Amelanchier alnifolia 'Regent'	85
Tilia x mongolica 'Harvest Gold'	41	Prunus subhirtella Higan Cherry	89
Ulmus americana 'Princeton'	42		



Actual size is 2" x 4-3/8"

NEW! SPROUT FREE® PROMOTIONAL TAGS
 Carlton Plants is pleased to offer a new SproutFree® sales tag. It is designed to stand out and gain the attention of your customer and provide easily read information describing the benefits of Malus varieties grown on this sucker resistant rootstock. (See page 25) It can benefit both wholesale and retail nurseries and is designed to enhance and work well with any type of tree variety tag or custom tag program that your nursery now uses. For garden centers it will provide additional information about the benefits of SproutFree® and a higher level of market visibility when used along with the varietal picture tag. Please contact Carlton Plants sales if you have any questions about this new SproutFree® tag.



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.




REBATE	TOTAL PURCHASE
0% ...	\$0 - \$4000
3% ...	\$4000 - \$8000
5% ...	\$8000 - \$12,000
7% ...	\$12,000 - \$16,000
10% ...	\$16,000 - \$24,000
13% ...	\$24,000 - \$32,000
15% ...	\$32,000 - \$48,000
18% ...	\$48,000 - \$80,000
20% ...	\$80,000 - \$120,000
22% ...	\$120,000 - \$160,000
23% ...	\$160,000 - \$240,000
25% ...	\$240,000 & UP



carlton
PLANTS


S H A D E , F L O W E R I N G &
S P E C I A L T Y O R N A M E N T A L S



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.

Whether your requirements are 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.



Acer campestre (Hedge Maple)

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

Hedge Maple ZONE 4-8 Height & 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.

- UNDERCUT -

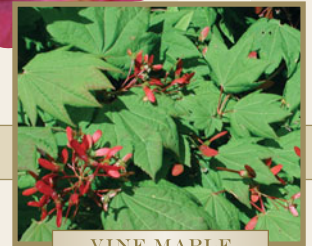
HEDGE MAPLE



Queen Elizabeth™ cv. 'Evelyn' Zone 5-8 Height 35' Spread 30' Upright branching oval form. Dark green foliage, yellow fall color. Attractive corky bark. Resistant to Japanese beetle. A recommended street tree.

- UNDERCUT -

NEW!



VINE MAPLE

Acer circinatum (Oregon Vine Maple)

3' 2' 18" 12"

Vine Maple 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.

Acer x freemanii (Freeman Maple)

1 1/4"b 1"b 6'b 5'b 7'b* 6'b* 5'b* 6'lt.b* 5'lt.b* 7'w 6'w 5'w 4'w

Armstrong ZONE 3-7 Ht. 40-50' Spread 15' Dense, narrow form with upright ascending branches. Fast growing. A good street tree or building accent. Yellow-orange fall color. Silver gray bark.

- UNDERCUT -

Autumn Blaze® cv. 'Jeffersred' 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 new cultivar one of the best.

- UNDERCUT -

Celebration® cv. 'Celzam' 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.

- UNDERCUT -

Acer x freemanii Continued on next page...

Shade, Flowering & Specialty Ornamental Trees

Acer x freemanii Continued from previous page...

1 1/4'b 1"b 6'b 7'b* 6'b* 5'b* 6'lt.b* 5'lt.b* 7'w 6'w 5'w 4'w

Marmo 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 *Acer saccharinum*. Chicagoland Grows® introduction.

- UNDERCUT -

***Acer ginnala* (Amur Maple) - TREE FORM -**

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

Flame (Flame Maple) ZONE 2-8 Height & Spread 15-20' Small, dense form. Yellowish, white fragrant flowers in spring. Red samara. Fiery red fall color. Slow growing. Very cold hardy. Tolerates dry and alkaline soils. Grows well in shade and adapts to containers. Recommended street tree for under utility lines, between streets and sidewalks.

- UNDERCUT -

SHRUB FORM ALSO AVAILABLE PG.55

PAPERBARK MAPLE

***Acer griseum* (Paperbark Maple)**

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

Paperbark Maple ZONE 4-8 Ht. 20-30' Spread 15-20' Upright oval form. Slow grower. Exquisite cinnamon colored exfoliating bark at a young age. Red fall color. Adaptable to acid or alkaline soils. Needs good drainage. Great for limited spaces or low clearance. Excellent tree with year round interest.

Paperbark Maple ZONE 4-8 Ht. 20-30' Spread 15-20'

4' 3' 2' 18" 12"

MULTI-STEM FORM

***Acer miyabei* (Miyabe Maple)**

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

State Street® ZONE 4-7 Ht. 45' Spread 35' Dark green exquisite foliage and interesting dark gray corky bark. Excellent ornamental character and good adaptability to a broad range of conditions. Very tolerant of heat, drought, salt and pollution. Can be used as a shade or street tree. No significant insect or disease problems.

- UNDERCUT -

***Acer negundo* (Boxelder)**

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

Sensation ZONE 2-7 Ht. 60' Spread 35' Rounded habit. More controlled and better branching structure than species. Brilliant red fall color. *Seedless*.

SENSATION

***Acer platanoides* (Norway Maple)**

1 1/4'b 1"b 6'b 5'b 1"lt.b 6'lt.b 5'lt.b 9'w 8'w 7'w 6'w 5'w 4'w

Columnare (Columnar Norway) ZONE 3-7 Ht. 40-50' Spread 15-20' Narrow, upright and compact. Dark green, dense foliage. Good as a screen or street use where buildings demand a narrow slow tree.

- UNDERCUT -

Crimson King ZONE 4-7 Ht. 40-50' Spread 35-45' Dense, rounded form. Maroon foliage all summer. Yellow flowers. Moderate growth rate, producing dense shade. The most popular of all red-leafed Norways. Full sun.

Crimson Sentry ZONE 4-7 Ht. 20-25' Spread 15' Narrow, compact, upright, columnar variety. Dark purple leaves produce a dense wall when grouped together. Slow growing. Ideal for street plantings.

Deborah ZONE 3-7 Ht. 50-60' Spread 40-50' New foliage is bright red, turning to a vivid dark green. Vigorous grower with a straight central leader. Evenly branched crown. Good for avenues. Form is broadly oval to round. John Holmlund Nursery introduction, 1978.

- UNDERCUT -

Acer platanoides Continued on next page...

Shade, Flowering & Specialty Ornamental Trees

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 9'w 8'w 7'w 6'w 5'w 4'w

Emerald Lustre® cv. 'Pond' ZONE 3-7 Ht. 60-65' Spread 50-60' Broad oval form. Deep green glossy leaves. Selected for its vigorous, prolific branching as a young tree. Yellow fall color.

- UNDERCUT -

Emerald Queen™ ZONE 4 Ht. 50' Spread 40' Dense, broad uniform growth habit. New leaves are light pink turning to dark glossy green foliage. Fast growing. One of the finest Norway cultivars for landscape shade and one of the most widely used. Full sun.

- UNDERCUT -

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.

Superform ZONE 3-7 Ht. 50-55' Spread 40-50' Rapid growing, exceptionally straight and symmetrical. Heavy with dark green leaves. Yellow fall color. Reportedly frost crack resistant.

- UNDERCUT -

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®

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 (P.P.7803) Zone 3-6 Height 50' Spread 25-30' Broadly columnar form. Consistently beautiful red fall color. A University of Minnesota introduction.

◀ LIMITED AVAILABILITY ▶

NEW!

'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 Ht. & 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 as well as 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.

Northwood™ ZONE 3-8 Ht. 40-50' Spread 30-35' Rounded oval form. Straight sturdy trunk. One of the hardiest rubrum cultivars. Orange-red fall color in the northern areas. University of Minnesota introduction. Male selection.



Acer rubrum Continued on next page...

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

Shade, Flowering & Specialty Ornamental Trees

Acer rubrum Continued from previous page...

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

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 4'lt.b

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

Acer tataricum (Tatarian Maple)

1"b 6'b 5'b 4'b 3'b 2'b 18"b

Hotwings® cv. 'GarAnn' P.P.15,023 ZONE 3 Ht. 25' Spread 20' A chance seedling selected from Ft. Collins 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.

- UNDERCUT -

HOTWINGS®

Hotwings® cv. 'GarAnn' P.P.15,023 ZONE 3 Ht. 25' Spread 20' **MULTI-STEM FORM**

- UNDERCUT -

NEW!

Tatarian Maple ZONE 3-8 Ht. 20-25' Spread 18-20' Dense, oval, upright form. Fall foliage is yellow, red and brown. Tolerates cold dry climates, drought, and alkaline soils. Good street tree for small residential areas.

- UNDERCUT -

Pattern Perfect™ '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.

- UNDERCUT -

Pattern Perfect™ 'Patdell' ZONE 3-8 Ht. 20' Spread 15-20' **MULTI-STEM FORM**

- UNDERCUT -

Acer truncatum (Shantung Maple)

1 1/4"b 1"b 6'b 5'b 8'w 7'w 6'w 5'w

Pacific Sunset® cv. 'Warrenred' (P.P. 7433) 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.

- UNDERCUT -



Aesculus x (hybrid)

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

x arnoldiana '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.

x carnea '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.

x carnea 'Ft. McNair' (*Ft. McNair Red Horsechestnut*) ZONE 3-7 Ht. 40-50' Spread 30' Rounded, dense crown at maturity. Upright dark pink panicles 6-8". 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. Panicle of yellowish red flowers. Sun to partial shade. Moist, well-drained soil. Dislikes dry soil. Sterile flowers.



'BRIOTII'

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)

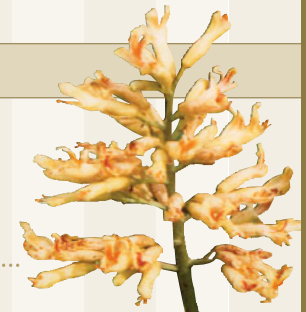
4' 3' 2' 18" 12"

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



YELLOW BUCKEYE

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.



Shade, Flowering & Specialty Ornamental Trees

Amelanchier (Serviceberry)

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

Rainbow Pillar® cv 'Glennform' (P.P.9092) 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 ALSO AVAILABLE PG.55

NEW!



RAINBOW PILLAR®

Amelanchier x grandiflora (Apple Serviceberry)

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

Autumn Brilliance® ZONE 3-8 Ht. 20-25' Spread 15-20' Fast growing and heavy branching. Reaches mature size early. Bright red fall color. Clean summer foliage resistant to leaf spot. Edible purplish-black fruit. Strong branching resists ice breakage. Full sun to partial shade. Discov-Tree introduction. SHRUB FORM ALSO AVAILABLE PG.55

Forest Prince ZONE 4-8 Ht. 20-25' Spread 15-20' Leathery dark green leaves are clean and robust. Clear white flowers along the entire stems. Heavy bloomer. Abundant edible red fruit. Orange-red fall color. Roy Klehm selection.

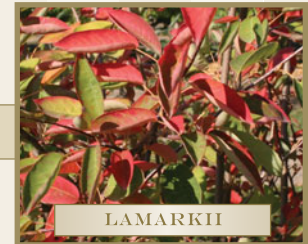
Robin Hill ZONE 4-8 Ht. 20-30' Spread 15-20' Small, upright, open form. Good for small spaces. Flowers pink in bud, open to pale pink and turn white. Small red-purple edible fruit. Yellow to red fall color. Prefers full sun to partial shade.

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. Treeseach introduction.

Lustre® cv. 'Rogers' ZONE 4-8 Ht. 20-30' Spread 15-20' A budded Carlton Plants selection. Upright and open form. Profuse drooping white flower clusters in spring. Leaves emerge purplish to bronze in color. Persistent orange-red fall color. Minimal suckering makes it a suitable street tree. Edible fruit.



LAMARKII

Amelanchier lamarkii (Lamark Serviceberry)

1' 7' 6' 5' 4'

Lamark Serviceberry 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. SHRUB FORM ALSO AVAILABLE PG 55

Betula jacquemonti (Jacquemonti Birch)

9'b 8'b 7'b 6'b 5'b 4'b 6' 5' 4' 3' 2'

Jacquemonti Birch ZONE 5 Ht. 50-60' Spread 30' Pyramidal in youth, developing to an irregular rounded crown. Large, shiny green leaves. White bark at a young age. The whitest of all birches. Golden fall foliage. Fairly vigorous in growth.

Jacquemonti Birch ZONE 3-8 Ht. 50-60' Spread 30' *Singles for Clumping*

Betula nigra (River Birch)

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

Dura-Heat® cv. 'BNMTF' ZONE 4-9 Ht. 35' Spread 25' Pyramidal to broad oval form. Dark green leaves with butter-yellow fall color. Creamy colored white exfoliating bark. Much more tolerant of hot, humid conditions than other river birch varieties.

Betula nigra Continued on next page...

Shade, Flowering & Specialty Ornamental Trees

Betula nigra Continued from previous page...

1 1/2" 1"b 6'b 5'b 4'b 3'b 6' 5' 4' 3' 2' 18"

Dura-Heat® cv. 'BNMTF' ZONE 4-9 Ht. 35' Spread 25' *Singles for Clumping*

Heritage® Birch cv. 'Cully' (1,829,534) ZONE 4-8 Ht. 40-50' Spread 20' Pyramidal to broad oval form with age. Highly resistant to bronze birch borer. Yellow fall color. Creamy colored white bark that exfoliates, becoming mottled and interesting with age. Moist or dry soils. Requires a fairly acid pH. Rapid growth once established. Heritage® Trees Inc. introduction.

Heritage® Birch cv. 'Cully' (1,829,534) ZONE 4-8 Ht. 40-50' Spread 20'
Singles for Clumping

Summer Cascade (PPAF) ZONE 4-9 Ht. 12-15' Spread 8-10' A fast growing, pest free and mostly self-maintaining American River birch. A graceful weeping habit. Foliage is bright green turning dark green in summer. Golden fall color. Tolerates a wide range of growing conditions including high temperatures and wet soils. Resistant to Bronze Birch Borer and has good resistance to Birch Leaf Miner. Prefers part shade. N.C.F.S.P. selection.

Hvy #1 #1 lt. #2

Betula papyrifera (*Paper Birch*)

1 1/2"b 1 1/4"b 1"b 6'b 5'b 4'b 5" 4' 3' 2'

Renaissance Reflection® cv. 'Renci' ZONE 3-6 Ht. 50-70' Spread 15-20' Fast growing paper white birch displaying white bark. Pyramidal in shape. Yellow fall color. Superior bronze birch borer resistance. Grown as a single stem. Extremely heat resistant.

- UNDERCUT -

Renaissance Reflection® cv. 'Renci' ZONE 3-6 Ht. 50-70' Spread 15-20' *Singles for Clumping*

Betula pendula (*European White Birch*)

Hvy #1 #1 lt. #2

Youngii Birch (*Young's Weeping Birch*) ZONE 3-7 Ht. 12-15' Spread 8-10' Narrow weeping form headed to a 5 1/2' height and then allowed to weep. Slender pendulous branches reach the ground. White bark. Yellow fall color. Prefers full sun.

- UNDERCUT -

Betula populifolia (*Gray Birch*)

6' 5' 4' 3' 2'

Whitespire Birch 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 leaf miners than *Betula papyrifera*. Selected at University of Wisconsin. Good in naturalized settings. Full sun. *Singles for Clumping*

Betula x (hybrid)

9'b 8'b 7'b 6'b 5'b 4'b 3'b 2'b 4' 3' 2' 18" 12"

Royal Frost® 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 *Crimson Frost*. Evergreen Nursery introduction.

Royal Frost® ZONE 4 Ht. 30-40' Spread 15-20' *Singles for Clumping*

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

Shade, Flowering & Specialty Ornamental Trees

Caragana arborescens (Siberian Peashrub)

3 1/2' STANDARD Hvy Sel. Hvy #1

Weeping Siberian Peashrub (Pendula) 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.

Weeping Walkeri Peashrub 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, Caragana display good dry soil tolerance. COPF introduction.

Carpinus betulus (European Hornbeam)

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

European Hornbeam 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 -

Frans Fontaine 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 -

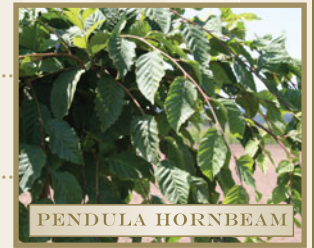
Fastigiata ZONE 5-7 Ht. 30-40' Spread 15-20' Formal branching habit. Columnar and dense when young, becoming pyramidal with age. Effective screen or street tree. Yellow fall color.

- UNDERCUT -

Pendula Hornbeam ZONE 4 Ht. 8-10' A pendulous form of European hornbeam with a formal growth habit. Good for low clearance and small spaces. Available as 5' std.

Hvy Sel. Hvy #1 #1lt. #2

- UNDERCUT -



Carpinus caroliniana (American Hornbeam)

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

American Hornbeam 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 -

Carpinus japonica (Japanese Hornbeam)

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

japonica ZONE 5-7 Ht. 20-30' Spread 25' Small tree grown for its attractive foliage. Leaves are serrated, strongly veined and deep green. Branches form a distinctive fan-like pattern. Prominent fruit bracts. Interesting gray fluted bark. Slow grower. Sun to light shade.

- UNDERCUT -

Catalpa

9'w 8'w 7'w 6'w 5'w 4'w 3'w

bignonioides 'Aurea' (Golden Catalpa) ZONE 4-9 Height 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 honey bees. Suitable for all types of well drained soils. Prefers full sun.

GOLDEN CATALPA

speciosa (Northern Catalpa) ZONE 4-7 Ht. 50-60' Spread 35-40' Upright fast growing tree. Foliage is green with a large heart-shape. Tube-like white flowers appear in 4-8" panicles. Long pencil-like pod fruits. Best grown in large areas.

Catalpa Continued on next page...



Shade, Flowering & Specialty Ornamental Trees

Catalpa Continued from previous page...

x erubescens 'Purpurea' (*Purple Catalpa*) ZONE 5 Height 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.

9'w 8'w 7'w 6'w 5'w

Celtis occidentalis (*Common Hackberry*)

1 1/4"b 1"b 6'b 5'b 6'b* 5'b* 4'b* 6'w* 5'w* 4'w*

Hackberry 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 -

Chicagoland® ZONE 3-7 Height 45' Spread 30-35' Rounded open form. A stronger grower than the species with clean large green foliage. A Roy Klehm selection.

- UNDERCUT -

NEW!

↳ LIMITED AVAILABILITY ↵

Cercidiphyllum japonicum (*Katsura Tree*)

1 1/2"b 1 1/4"b 1"b 6'b 5'b 4'b 3'b

Katsura 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.

- UNDERCUT -

Weeping Katsura Tree (*Pendula*) 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

- UNDERCUT -

Cercis canadensis (*Eastern Redbud*)

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

Eastern Redbud 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 ALSO AVAILABLE PG.57**

- UNDERCUT -

'Alba' (*White Flowering Redbud*) ZONE 4 Ht. 15-30' Spread 12-15' Similar habits as the species only having pure white flowers. Emerging, heart shaped leaves are a distinct lime-green in color. Seed pods are 3" long and flat. Prefers moist, well drained soils and partial shade to full sun. **SHRUB FORM ALSO AVAILABLE PG.57**

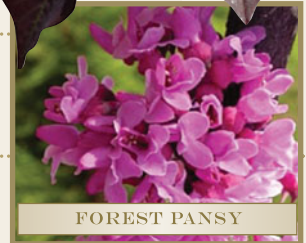
'Forest Pansy' ZONE 5-9 Height 20-30' Spread 15-25' Upright spreading form. New foliage is a deep purple fading to a more subdued color as the season progresses. Purple-pink flowers appear before leaves emerge. Darker than the species.

- UNDERCUT -

↳ LIMITED AVAILABILITY ↵

NEW!

FOREST PANSY LEAF



FOREST PANSY

Cladrastis kentukea (*Yellowwood*)

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

American Yellowwood 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.

- UNDERCUT -

'Perkins Pink' (*Pink Flowering Yellowwood*) 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.

- UNDERCUT -



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

Cornus alba (*Variegated European Dogwood*) - TREE FORM -

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

alba 'Argenteo-Marginata' ZONE 3-7 Ht. 6-10' Spread 5-8' Normally grown as a shrub, this small tree with upright growth has bright red branches. These bright red branches make an attractive winter effect. Full sun preferred. **SHRUB FORM ALSO AVAILABLE PG.57**

- UNDERCUT -



CHINESE DOGWOOD

Cornus kousa (*Kousa Dogwood*)

1"b 6'b 5'b 4'b 3'b 2'b

Chinensis (*Chinese Dogwood*) 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 ALSO AVAILABLE PG.58**

Milky Way ZONE 5-8 Ht. 20-30' Spread 20' Known for its white, star shaped, uniform heavy bloom. 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.

Cornus mas (*Corneliancherry Dogwood*)

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

Corneliancherry Dogwood ZONE 4-8 Ht. 20-25' Spread 15' Small tree or large multi-stemmed shrub. Rounded growth habit. Exfoliating gray-brown bark. Early March yellow flowers appear before leaves. Bright cherry-red fruit. Full or partial sun. **SHRUB FORM ALSO AVAILABLE PG.58**

- UNDERCUT -

'Golden Glory' 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 ALSO AVAILABLE PG.58**



HARRY LAUDER'S WALKINGSTICK

NEW!

Corylus avellana (*European Filbert*)

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

Contorta (*Harry Lauder's Walkingstick*) 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 columna understock. Top grafted. **SHRUB FORM ALSO AVAILABLE PG.59**

- UNDERCUT -

Fusco-rubra ZONE 4-9 Height 12-15' Spread 10-12' A purple leafed cultivar of avellana displaying purple new foliage in the spring fading to green in the summer. Buds and catkins retain purple cast; involucre and young fruits are also purplish.

- UNDERCUT -

Corylus columna (*Turkish Filbert*)

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

Turkish Filbert 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.

- UNDERCUT -

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

Cotinus coggygria (Smoketree) - TREE FORM -

6' 5' 4' 3'

Golden Spirit® cv. 'Ancot' (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.

SHRUB FORM ALSO AVAILABLE PG.59

- UNDERCUT -



GOLDEN SPIRIT®

Royal Purple 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 ALSO AVAILABLE PG.59

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

x Grace 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.

COTINUS



Crataegus ambigua (Russian Hawthorn)

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

Russian Hawthorn 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 -

Crataegus crusgalli (Cockspur Hawthorn)

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

Thornless Cockspur (crusgalli inermis) 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 -

Crataegus laevigata (English Hawthorn)

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

Crimson Cloud 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 -

Paul's Scarlet 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 -



THORNLESS COCKSPUR

Crataegus phaenopyrum (Washington Hawthorn)

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

Washington ZONE 4-8 Ht. 20-25' Rounded upright form with 20-25' spread. Orange to scarlet fall color. White flower clusters appear in May. Small 1/4" glossy red fruit clusters persist all winter. Resistant to fireblight. Very adaptable, does well in southern states. Long thorns 1/2". Full sun.

- UNDERCUT -

Washington Lustre® cv. 'Westwood I' ZONE 4-8 Ht. & Spread 20-25' A Carlton Plants budded selection having fewer thorns and more vigor. Early, profuse blooms. Good choice for urban settings.

- UNDERCUT -



Shade, Flowering & Specialty Ornamental Trees

Crataegus viridis (Green Hawthorn)

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

Winter King 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 -



'SPRING GLORY'

Crataegus (Multi-stem Hawthorn) 4 to 6 branches near or at ground level

3' 2' 18" 12"

Russian Hawthorn (ambigua) ZONE 4-6 Ht. 15-18' Spread 18-20'

- UNDERCUT -

Thornless Cockspur (crusgalli inermis) ZONE 4-7 Ht. 15-20' Spread 10-15'

- UNDERCUT -

Washington Lustre® cv. 'Westwood P' (phaenopyrum) ZONE 4-8 Height & Spread 20-25'

- UNDERCUT -

Winter King (viridis) ZONE 4-7 Ht. 20-30' Spread 20'

- UNDERCUT -

Eucommia ulmoides (Hardy Rubber Tree)

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

Hardy Rubber Tree 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.

- UNDERCUT -



ALATUS 'COMPACTA'

Euonymus - TREE FORM -

3' STANDARD

Hvy #1 #1 lt. #2

alatus 'Compacta' (Dwarf Winged Burning Bush) 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 ALSO AVAILABLE PG.60

Forsythia - TREE FORM -

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

x intermedia 'Spring Glory' ZONE 4-8 Ht. 10' Spread 10' A shrub grown as a small tree. Wide 1 1/2" sulfur yellow flowers densely produced along the stems. Profuse early flowering.

- UNDERCUT -



AUTUMN PURPLE®

Fraxinus americana (White Ash)

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

Autumn Purple® cv. 'Junginger' 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.

- UNDERCUT -

Fraxinus oxycarpa

1"b 6'b 5'b 9'w 8'w 7'w 6'w 5'w

Raywood 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.

Fraxinus pennsylvanica (Green and Red Ash)

1 1/4"b 1"b 6'b 5'b 8'w 7'w 6'w 5'w 4'w 3'w

Cimmaron® cv. 'Cimzam' (P.P. 8077) ZONE 4-7 Ht. 50-60' Spread 25-30' Upright oval. Superior new *seedless* cultivar. Fast growing. Strong straight central leader. Rich green foliage turns to deep burgundy changing again to orange-red in fall. Salt tolerant. A Lake County Nursery 'ZAM' introduction.

- UNDERCUT -

Fraxinus pennsylvanica Continued on next page...

Shade, Flowering & Specialty Ornamental Trees

Fraxinus pennsylvanica Continued from previous page...

1 1/4"b 1"b 6'b 5'b 8'w 7'w 6'w 5'w 4'w 3'w

Patmore 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. More uniform and symmetrical than Marshall. Yellow fall color.

- UNDERCUT -

Summit ZONE 3-7 Ht. 45' Spread 25' Upright, oval form. Strong central leader. Medium green leaves. Excellent green ash cultivar. Straight central leader. Golden-yellow fall color. Drops leaves two weeks earlier than Marshall. *Seedless* male selection.

Urbanite® ZONE 4-7 Ht. 40-50' Spread 20-30' Tight growing, small ash. Pyramidal growth habit. Leaves extremely heavy and lustrous turning deep bronze in fall. Bark appears to resist sun scald. A *seedless* Wandell introduction.

Ginkgo biloba (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

Autumn Gold ZONE 3-8 Ht. 40-60' Spread 30-40' Broad spreading form at maturity. Very symmetrical slower grower. Golden fall color. Grafted male selection.

Magyar 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. Grafted male. Selection from Princeton Nursery.

Princeton Sentry® 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.

Windover Gold® ZONE 4-8 Ht. 40-60' Spread 30-40' Upright oval form. A male cultivar. Strong grower. Golden fall color. A Windover Nursery introduction.

Gleditsia tria. inermis (Thornless Honeylocust)

1 1/4"b 1"b 6'b 5'b 4'b 8'w 7'w 6'w 5'w 4'w 3'w

Imperial® 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.

Imperial® cv. 'Impcole' ZONE 4-7 Ht. 40-50' Spread 20-30'

- UNDERCUT -

Shademaster® 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.

Skyline® cv. 'Skycole' ZONE 4-7 Ht. 50-60' Spread 35-40' Broad, pyramidal form with tighter branching. Vigorous grower. Compact dark green foliage. Yellow fall color. *Seedless* and thornless. Full sun.

Skyline® cv. 'Skycole' ZONE 4-7 Ht. 50-60' Spread 35-40'

- UNDERCUT -

Sunburst® 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.

Sunburst® cv. 'Suncole' ZONE 4-7 Ht. 30-40' Spread 20-25'

- UNDERCUT -

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

Shade, Flowering & Specialty Ornamental Trees

Gymnocladus dioicus (Kentucky Coffeetree)

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

Kentucky Coffeetree ZONE 3-8 Ht. 40-50' Spread 20-25' Narrow young growth broadens with age. New foliage is pinkish-tinged turning dark bluish 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 settler's coffee beans. Adapts to alkaline soils, city conditions and is drought tolerant. Full sun.

- UNDERCUT -

Halesia carolina (Carolina Silverbell)

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

Arnold Pink 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.

Halesia diptera magniflora (Two-winged Silverbell)

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

ZONE 5-8 Ht. 20-30' Spread 15-20' Referred to as the Two-winged Silverbell, this beautiful small ornamental has a rounded shape. Early spring flowers are pure white, 1 1/2" bells completely cover tree before leaves emerge. 5" long oval leaves turn yellow in fall. Light shade to sun. Moist soil.

MOUNTAIN SILVERBELL

Halesia monticola (Mountain Silverbell)

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

Mountain Silverbell 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.

var. Vestita 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.

VESTITA

Hamamelis (Witchhazel) - TREE FORM -

3' STANDARD

Hvy #1 #1 lt. #2

x intermedia 'Arnold Promise' 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.

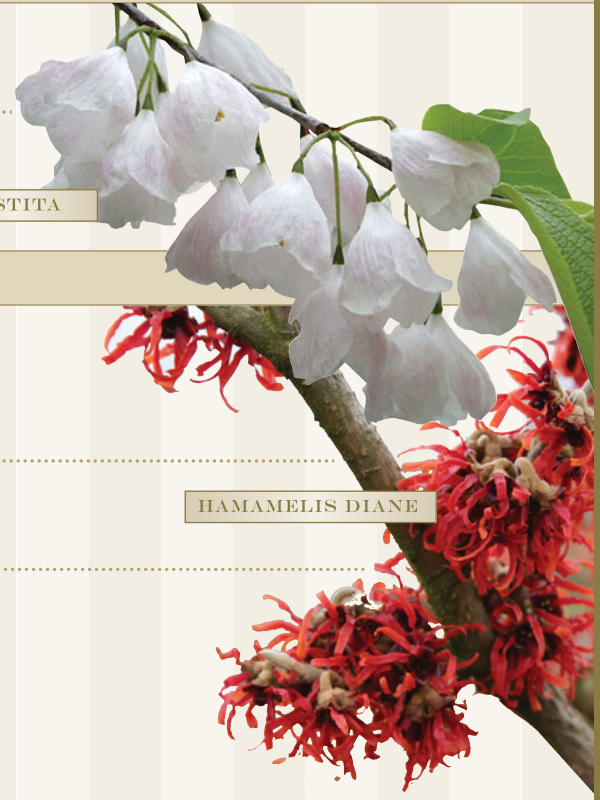
MULTI STEM FORM ALSO AVAILABLE PG.61

x intermedia 'Diane' ZONE 5-8 Ht. 15-20'. 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. MULTI STEM FORM ALSO AVAILABLE PG.61

HAMAMELIS DIANE

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. MULTI STEM FORM ALSO AVAILABLE PG.61

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



Shade, Flowering & Specialty Ornamental Trees

Hydrangea paniculata (*Panicle Hydrangea*)

Hvy #1 #1 lt. #2

Grandiflora (*Peegee Hydrangea*) ZONE 3-8 Height & Spread 10-15' Tree form. Branching height starts at 30". Long summer blooming, huge drooping white flower clusters, often 10" long and wide. Clusters turn mauve-pink before dropping.

SHRUB FORM ALSO AVAILABLE PG.62

Tardiva (*Late Panicle Hydrangea*) ZONE 3-8 Height 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 ALSO AVAILABLE PG.62

Unique 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 ALSO AVAILABLE PG.62



LATE PANICLE HYDRANGEA

Koelreuteria paniculata (*Goldenraintree*)

1 1/2"b 1 1/4"b 1"b 6'b 5'b 1"lt.b 6'lt.b 5'lt.b 4' 3' 2' 18"

Goldenraintree 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.

- UNDERCUT -

Goldenraintree ZONE 4-8 Ht. 30-40' Spread 20-25'

MULTI-STEM FORM

Laburnum x watereri (*Goldenchain*)

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

Vossi 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.

- UNDERCUT -

Weeping (*Pendula*) ZONE 5-8 Ht. 12-15' Spread 10-12' Weeping form of Vossi with long, drooping branches covered with spectacular yellow flower clusters in June.

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

Liquidambar styraciflua (*Sweetgum*)

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

Happidaze® cv. 'Hapdel' 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.

- UNDERCUT -

Moraine (*Moraine Sweetgum*) 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.

Slender Silhouette ZONE 5-9 Height 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.

- UNDERCUT -

NEW!

→ LIMITED AVAILABILITY ←

Shade, Flowering & Specialty Ornamental Trees

Liquidambar styraciflua Continued from previous page...

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

Worplesdon (Worplesdon Sweetgum) 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.

Liriodendron tulipifera (Tuliptree)

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

Tuliptree 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.

- UNDERCUT -

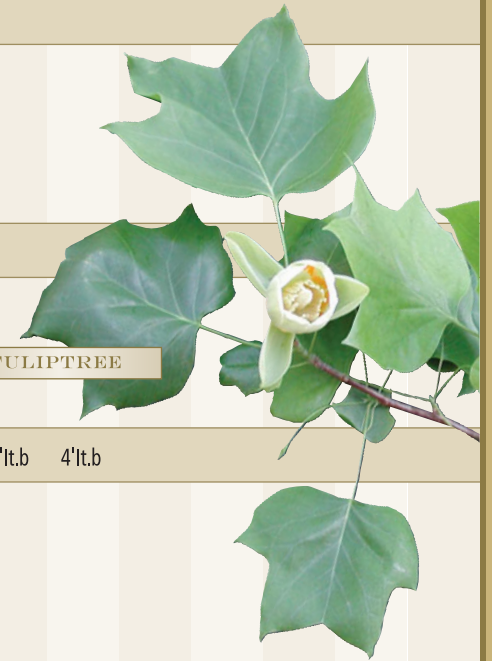
TULIPTREE

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 Ht. & 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.

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





quality
PERFORMANCE value
innovation



NEW! 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*

"A. Brown & Sons has been growing a limited variety of *SproutFree®* crabapples for several years. We expect to have sufficient numbers available within two or three years. We find them to be vigorous growers with a good root system both in our fields and container production – possibly gaining as much as an extra year of growth over a two to five year period.



We know the *SproutFree®* rootstock will be a great selling point for crabapples in the future with less maintenance for homeowners and landscapers. For those of us in the nursery industry, we will save countless labor hours associated with removing sprouts.

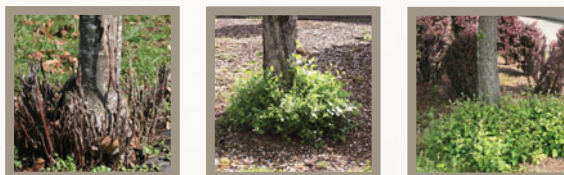
We feel this is a major step in the right direction. If all goes well, our goal is to be 100% sprout free."

The Brown Family
A. Brown & Sons Nursery, Inc.
Phillipsburg, Ohio

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
• Contributes to a More Aesthetically Pleasing Landscape
• Hardy to Zone 3
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



C-R-A-B-A-P-P-L-E-S W-I-T-H S-P-R-O-U-T-S



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.

SproutFree® tags are now available! See page 7 for more details.



Shade, Flowering & Specialty Ornamental Trees

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 Height 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**

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**

Candymint 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 (P.P.7174) 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 1/2" red fruit in the fall. Fruit is not abundant. A Princeton Nursery introduction.

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.

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**

→ LIMITED AVAILABILITY ←

NEW!

MALUS CARDINAL



3 1/2' STANDARD Hwy #1 #1 lt. #2

Malus Continued on next page...

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

- ALL CRABAPPLES ARE ON HARDY ROOTSTOCK -



Shade, Flowering & Specialty Ornamental Trees

Malus Continued from previous page...

1"b 6'b 5'b

Dolgo ZONE 2-8 Ht. 30-40' Spread 20-30' Upright spreading form. Large 1³/₄" 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

CORALBURST®



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

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.

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

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.

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

VIRUS CERTIFIED

- UNDERCUT -

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.

- UNDERCUT -

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

- UNDERCUT -



Indian Magic ZONE 4-8 Height & Spread 15-20' Round, upright form. Red buds turn to single deep pink 1¹/₂" flowers. Persistent ¹/₂" orange-red fruit. Dark green foliage. Fall color is apricot-orange. Good disease resistance, moderately susceptible to scab.

VIRUS CERTIFIED

- UNDERCUT -

Malus Continued on next page...

- ALL CRABAPPLES ARE ON HARDY ROOTSTOCK -



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

Shade, Flowering & Specialty Ornamental Trees

Malus Continued from previous page...

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

Indian Summer ZONE 4-8 Height & Spread 18-25' Small, dense, rounded tree with rose-red blossoms. Bright-red $\frac{5}{8}$ " 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

Lancelot® (P.P. 8056) 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 10' Rounded form as the name suggests. Dwarf, compact head with dense foliage. Maintains its symmetrical form without pruning. Prolific white blooms turn to $\frac{3}{4}$ " golden-amber fruits. Disease resistant. A Lake County Nursery 'ZAM' Introduction.

3 1/2' STANDARD Hvy Sel. Hvy #1 #1 lt. #2

- UNDERCUT -

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.

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

LOLLIPOP™

Pink Princess™ cv. 'Parsi' ZONE 5 Height 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 $\frac{1}{4}$ " fruits. Excellent disease resistance. J. Frank Schmidt Nursery introduction.

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

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

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

VIRUS CERTIFIED

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

VIRUS CERTIFIED

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

- UNDERCUT -

Purple Prince (P.P. 8478) ZONE 4 Height & Spread 20' Fast growing. Rounded broad form. Purple foliage becomes bronze-green with age. Single rose-red blooms. Persistent blue-purple $\frac{3}{8}$ " fruits. Young bark is purple. Disease resistant. J. Frank Schmidt Nursery introduction.

- UNDERCUT -

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.

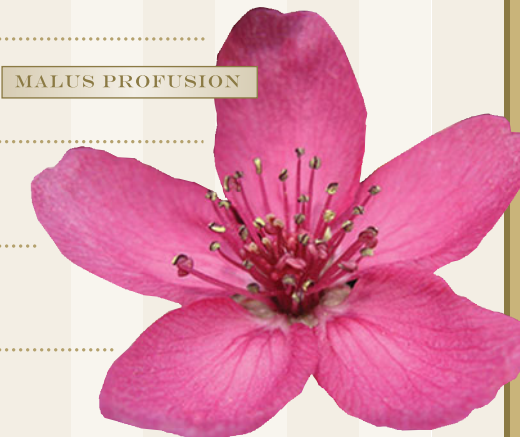
VIRUS CERTIFIED

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

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

VIRUS CERTIFIED



MALUS PROFUSION

Malus Continued on next page...

- ALL CRABAPPLES ARE ON HARDY ROOTSTOCK -

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

Shade, Flowering & Specialty Ornamental Trees

Malus Continued from previous page...

Robinson ZONE 4-8 Height & Spread 20-25' Upright, spreading, rounded form. Single, early, crimson buds opening to deep pink blooms. Abundant dark-red $\frac{3}{8}$ " fruit. Burnt orange colored fall foliage. Excellent disease resistance. **VIRUS CERTIFIED**

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

- UNDERCUT -

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 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**

3 1/2' STANDARD Hvy Sel. Hvy #1 #1 lt. #2

ROYAL GEM™

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

1"b 7'b 6'b 5'b 4'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 $\frac{1}{4}$ " scarlet-red persistent fruit. Clean foliage. Great for small courtyards and patios. Excellent disease resistance. **VIRUS CERTIFIED**

3/4"b 4'b 3'b

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

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

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 $\frac{3}{8}$ " fruit. Heavy textured glossy green foliage. Susceptible to fireblight. **VIRUS CERTIFIED**

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

Springsnow ZONE 4-8 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**



SPRINGSNOW

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

- UNDERCUT -

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

- UNDERCUT -

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



Malus Continued on next page...

- ALL CRABAPPLES ARE ON HARDY ROOTSTOCK -

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

Shade, Flowering & Specialty Ornamental Trees

Malus Continued from previous page...

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

Zumi Calocarpa ZONE 4 Ht. 15-20' Rounded form. Fragrant single white blooms. Persistent red 3/8" 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.

Malus (Weeping Flowering Crabapple)

Hvy #1 #1 lt. #2 Untopped 1"b 7'b 6'b 5'b

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

Molten Lava® cv. 'Molazam' ZONE 4-8 Height & Spread 12-15' Spreading, weeping form. Red buds open to single white 1 1/2" blooms. Brilliant red persistent fruit. Yellow bark. Highly disease resistant. Lake County Nursery 'ZAM' introduction.

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

Malus (Multi-stem Flowering Crabapple)

4' 3' 2' 18" 12"

4 to 6 branches near or at ground level

Candy mint Sargentii ZONE 4-8 Ht. 8-10' Spread 15-18' Single deep pink blooms.

- UNDERCUT -

Prairifire ZONE 4-8 Height & Spread 15-20' Single pinkish-red blooms.

ON SPROUTFREE® ROOTSTOCK

VIRUS CERTIFIED

- UNDERCUT -

Profusion ZONE 4-8 Height & Spread 15-20' Single deep pink blooms.

VIRUS CERTIFIED

- UNDERCUT -

Purple Prince (P.P. 8478) ZONE 4 Height & Spread 20'

MULTI-STEM

- UNDERCUT -

Red Jewel® cv. 'Jewelcole' ZONE 4-8 Ht. 15' Spread 12' Single white blooms.

ON SPROUTFREE® ROOTSTOCK

VIRUS CERTIFIED

- UNDERCUT -

Royal Raindrops® cv. 'JFS-KW5' (P.P. 14375) ZONE 4-8 Ht. 20' Spread 15'

ON SPROUTFREE® ROOTSTOCK

- UNDERCUT -

Sargent ZONE 4 Height & Spread 8-12' Single white blooms.

VIRUS CERTIFIED

Snowdrift ZONE 3-8 Height & Spread 15-20' Single white blooms.

VIRUS CERTIFIED

- UNDERCUT -

Springsnow ZONE 4-8 Height & Spread 15-20' Single white blooms.

VIRUS CERTIFIED

- UNDERCUT -

Sugar Tyme® ZONE 4-8 Height & Spread 15-20' Single white blooms. A Lake County Nursery 'ZAM' Introduction.

VIRUS CERTIFIED

- UNDERCUT -



Malus Continued on next page...

Shade, Flowering & Specialty Ornamental Trees

Malus Continued from previous page...

3' 2' 18" 12"

Velvet Pillar™ ZONE 4-8 Height & Spread 15-20' Single pink blooms.

VIRUS CERTIFIED

- UNDERCUT -

- ALL CRABAPPLES ARE ON HARDY ROOTSTOCK -

Metasequoia glypto. (*Dawn Redwood*)

8'b 7'b 6'b 5'b 4'b 3'b

Dawn Redwood 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 -

Gold Rush ZONE 5-8 Height 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.

- UNDERCUT -

NEW!

→ LIMITED AVAILABILITY ←

Morus alba (*White Mulberry*)

OWN ROOT

Hvy #1 #1 lt. #2

Chaparral ZONE 3-8 Height & Spread 15-20' 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 size tree.

- UNDERCUT -

Ostrya virginiana (*American Hophornbeam*)

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

American Hophornbeam ZONE 3-9 Ht. 25-40' Spread 20-30' Small to medium size 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

Persian Parrotia ZONE 4-8 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 ALSO AVAILABLE PG.65

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. A Carlton Plants introduction.

Physocarpus opulifolius (*Ninebark*) - TREE FORM -

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

Center Glow® 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 darker and are deep burgundy color at maturity. Flower buds are light pink opening to clusters of white flowers. Full sun. Prefers well-drained soil. Landscape Plant Development Center introduction.

SHRUB FORM ALSO AVAILABLE PG.65

NEW!

Physocarpus opulifolius Continued on next page...



PERSIAN PARROTIA

Shade, Flowering & Specialty Ornamental Trees

Physocarpus opulifolius Continued from previous page...

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

Diabolo® 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 ALSO AVAILABLE PG.66**

Summer Wine® cv. 'Seward' (P.P.14821) ZONE 3 Ht. 6-8' Spread 5-6' This improved Ninebark has neat compact branching and fine deeply cut, dark crimson-red leaves. Requires little pruning. Pinkish-white, button-like flowers mid-summer. Very showy and extremely hardy. Full sun. Spring Meadow Nursery selection. **SHRUB FORM ALSO AVAILABLE PG.66**

NEW!

Platanus x acerifolia (**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' (*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.

- UNDERCUT -

Exclamation!™ ZONE 5-8 Height 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.

- UNDERCUT -

NEW!

Populus (**Poplar**)

1 1/4"b 1"b 6'b 5'b 4'b 3'b 6'w 5'w 4'w 3'w 2'w

angustifolia (*Narrowleaf Poplar*) ZONE 3 Height 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.

nigra 'Theves' ZONE 2-8 Ht. 50-60' Spread 10-15' Dense columnar form. Glossy foliage. Fast growing. Used for wind breaks. Longer lived than Lombardy. Tends to be broader and possibly more resistant to canker than Lombardy.

tremula 'Erecta' (*Swedish Columnar Aspen*) 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.*

- UNDERCUT -

x acuminata (*Lanceleaf Cottonwood*) 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.*

x canadensis '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.

Prunus (**Flowering Cherry**)

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

Accolade 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.

Prunus Continued on next page...

Shade, Flowering & Specialty Ornamental Trees

Prunus Continued from previous page...

	1 1/4"b	1"b	7'b	6'b	5'b	4'b	4' STANDARD	Hvy	#1	#1 lt.	#2
<p>Akebono ZONE 6-8 Height & Spread 25' Rounded and spreading form. Early single soft pink blooms. Vigorous grower when young. Disease resistant.</p> <p style="text-align: center;">VIRUS CERTIFIED</p>											
<p>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.</p> <p style="text-align: center;">VIRUS CERTIFIED</p>											
<p>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.</p>											
<p>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.</p> <p style="text-align: center;">VIRUS CERTIFIED</p>											
<p>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.</p>											
<p>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 color. Tolerates partial shade. Good narrow street tree.</p> <p style="text-align: center;">VIRUS CERTIFIED</p>											
<p>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.</p>	4' STANDARD		Hvy	#1	#1 lt.	#2					
<p>Shirofugen ZONE 5 Ht. 20-25' Spread 15-20' Wide spreading form. Large double flowers are purplish-pink in bud opening to white. Copper colored young foliage. Good disease resistance.</p> <p style="text-align: center;">VIRUS CERTIFIED</p>	1 1/4"b	1"b	7'b	6'b	5'b						
<p>Snow Goose ZONE 5-8 Height and 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.</p>											
<p>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.</p> <p style="text-align: center;">VIRUS CERTIFIED</p>											
<p>Prunus (Weeping Flowering Cherry)</p>	5 1/2' STANDARD		Hvy	#1	#1 lt.	#2					
<p>Pink Snow Showers™ 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>											



OKAME



PINK SNOW SHOWERS

Prunus Continued on next page...

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

Shade, Flowering & Specialty Ornamental Trees

Prunus Continued from previous page...

5 1/2' STANDARD Hvy #1 #1 lt. #2 4' STANDARD Hvy* #1* #1 lt.* #2*

Snow Fountains® 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. VIRUS CERTIFIED

4' one year grafts are excellent for containerizing.

Snow Fountains® cv. 'Snofozam' ZONE 5-8 Height & Spread 12-15'

VIRUS CERTIFIED

OWN ROOT - TOPPED AT 5' Hvy #1 #1 lt. #2

OWN ROOT - UNTOPPED 1"b 7'b 6'b 5'b

Subhirtella 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. VIRUS CERTIFIED

4' one year grafts are excellent for containerizing.

5 1/2' STANDARD Hvy #1 #1 lt. #2 4' STANDARD Hvy* #1* #1 lt.* #2*

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*

Crimson Pointe® cv. 'Cripoizam' 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 Country Nursery 'ZAM' introduction.

Krauter Vesuvius ZONE 5-8 Height & Spread 20' Oval, upright form. Single, fragrant, early, light pink blooms. Dense purple foliage, edible fruit. Heat tolerant. Does well in hot dry conditions. Similar to Thundercloud but having slightly darker foliage and more upright. - UNDERCUT -
VIRUS CERTIFIED

Mt. St. Helens® cv 'Frankthrees' ZONE 3 Height & Spread 20' Upright rounded dense form. Sport of 'Newport' having larger leaves, richer color and faster growing. Light pink blooms. Its dark purple leaves retain color when grown in full sun. Does well in tough climates. J.E. Schmidt Nursery introduction.

Newport 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

Thundercloud 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. - UNDERCUT -
VIRUS CERTIFIED

x cistena (top grafted) 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. VIRUS CERTIFIED

4 1/2' STANDARD Hvy Sel. Hvy* #1* #1 lt.*

SHRUB FORM ALSO AVAILABLE PG.67

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

Prunus padus (European Birdcherry)

1"b 6'b 5'b

Merlot™ 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.

- UNDERCUT -

Summer Glow® ZONE 3-7 Ht. 40-50' Spread 20-30' Upright growth habit. Reddish-purple leaves through the summer. Fragrant white flowers with 1/4" berries. Attractive to birds and wildlife. Prefers full sun. Discov.-Tree introduction

- UNDERCUT -

Prunus virginiana (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

Red Select 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.

VIRUS CERTIFIED

RED SELECT SHRUB FORM ALSO AVAILABLE PG.66

- UNDERCUT -

Pyrus calleryana (Callery Pear)

1 1/4"b 1"b 7'b 6'b 5'b 4'b 5'lt.b* 4'lt.b* 6'w 5'w 4'w 3'w

Aristocrat® 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.

VIRUS CERTIFIED

- UNDERCUT -

Autumn Blaze 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.

- UNDERCUT -

Cleveland Select 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'.

VIRUS CERTIFIED

- UNDERCUT -

Red Spire 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.

VIRUS CERTIFIED

- UNDERCUT -

Trinity 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.

- UNDERCUT -

Pyrus fauriei (Pea Pear)

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

Korean Sun™ 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.

VIRUS CERTIFIED



Pyrus (Multi-Stem Pear)

4' 3' 2' 18"

Consisting of three or more stems at or near the ground

Cleveland Select ZONE 5-8 Ht. 25-30' Spread 15-20'

VIRUS CERTIFIED

Pyrus Continued on next page...

Shade, Flowering & Specialty Ornamental Trees

Pyrus Continued from previous page...

3'b 2'b 18" 12"

Korean Sun™ cv. 'Westwood' ZONE 4-8 Height & Spread 15-20'

VIRUS CERTIFIED

***Quercus acutissima* (Sawtooth Oak)**

1 1/2"b 1 1/4"b 1"b 6'b 5'b 4'b 3'b

Sawtooth Oak ZONE 5-9 Ht. 35-45' Spread 30-35' Wide spreading, broadly pyramidal. Narrow chestnut like leaves. Clean foliated shade or lawn tree. Bark becomes furrowed with age. Tolerant of heat and wide soil ranges.

- UNDERCUT -

***Quercus alba* (White Oak)**

1"b 6'b 5'b 4'b 5'lt.b* 4'lt.b* 6'w 5'w 4'w 3'w 2'w

White Oak Zone 3-9 Height and Spread 60-70' Pyramidal form when young turns to 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)**

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

Swamp White Oak 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 rubra* (Northern Red Oak)**

1 1/4"b 1"b 6'b 5'b 1"lt.b 6'lt.b 5'lt.b 8'w 7'w 6'w 5'w 4'w 3'w

Northern Red Oak ZONE 4-8 Ht. 75-90' Spread 40-50' Broad round head. Rapid grower. New leaves and leaf stalks are deep red in spring. Large, oval shaped, deeply lobed leaves turn dark red in fall. Pollution and salt resistant. Transplants relatively easy due to negligible taproot.

- UNDERCUT -

***Quercus coccinea* (Scarlet Oak)**

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

Scarlet Oak 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)**

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

Northern Pin Oak 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)**

4' 3' 2' 18" 12"

Gambel Oak 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



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

Shade, Flowering & Specialty Ornamental Trees

Quercus imbricaria (Shingle Oak)

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

Shingle Oak 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)

1 1/4"b 1"b 6'b 5'b 4'b 6'lt.b 5'lt.b 7'w 6'w 5'w 4'w 3'w

Bur Oak 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)

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

Chinkapin Oak ZONE 5-7 Height and 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 -

Quercus palustris (Pin Oak)

1 1/4"b 1"b 6'b 5'b 6'lt.b* 5'lt.b* 7'w 6'w 5'w 4'w 3'w

Pin Oak ZONE 4-8 Ht. 70-80' Spread 50-60' Compact, broadly pyramidal form. Dense branches. Prefers moist, rich, acidic well-drained soil. Very intolerant of high pH. Readily transplanted because of shallow fibrous root system. In old age the tree assumes an oval-pyramidal form and loses many of its lower branches; a very distinctive tree. Red fall color turns to brown.

- UNDERCUT -

Quercus robur (English Oak)

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

English Oak ZONE 4-8 Height and Spread 40-60' Deep furrowed, gray-black bark. Leaves are dark green to blue green, small and bluntly lobed. Yellow-brown fall color. 1" long acorns. Very adaptable. Prefers well drained soil and full sun. pH tolerant. Good for parks and estate plantings.

- UNDERCUT -

Heritage® cv. 'Clemons' (P.P. 11431) ZONE 4-7 Ht. 80' Spread 50' An English and Bur Oak hybrid (Q. robur x macrocarpa). A beautiful specimen with deep, glossy green, mildew and tatter resistant foliage. Growth is very rapid, habit is dense. Broadly pyramidal when young, maturing into a wide oval form with a strong central leader. Yellow-brown fall color. A Heritage® Trees, Inc. introduction.

- UNDERCUT -

→ LIMITED AVAILABILITY ←

Regal Prince® cv. 'Long' (P.P. 12673) ZONE 4-7 Ht. 50' Spread 30' An English and Swamp White Oak hybrid. A very narrow oval form. The foliage is a glossy dark green with a silver underside. The tree is disease resistant and tolerant of a wide range of soil types (alkaline clay, wet or dry). Growth rate is medium. A Heritage® Trees, Inc. introduction.

- UNDERCUT -

→ LIMITED AVAILABILITY ←

Rhamnus frangula (Buckthorn) - TREE FORM -

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

'Asplenifolia' (Fernleaf Buckthorn) ZONE 3-7 Ht. 12-15' Spread 6-10' Unique narrow, thin leaves depict a delicate texture. Flowers are green and inconspicuous. Red berries mid-summer turn to black. Yellow fall color. Drought tolerant. Full sun to partial shade.

SHRUB FORM ALSO AVAILABLE PG.67



FERNLEAF BUCKTHORN

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

Shade, Flowering & Specialty Ornamental Trees

Ribes sanguineum (Winter Currant) - TREE FORM -

6'b 5'b 4'b

King Edward VII (Red Flowering Currant) ZONE 5-7 Height 6-8' Spread 4-6' Crimson-red, pendulous racemes turn to blue-black berries. Blooms May to June attracting hummingbirds. Attractive yellow fall color. Showy accent plant as a tree form. Prefers moist, well drained soil. Sun to partial shade.

SHRUB FORM ALSO AVAILABLE PG.68



Robinia hispida x macrophylla

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

Flowering Loose Globe Locust (Pendula) ZONE 3-8 Height & Spread 10-12' Open loose form. Pendulous lavender purple florets with a sweet fragrance. Moderate growth rate. Prefers well drained soil and full sun. Will tolerate most any conditions including air pollution. Good urban tree.

- UNDERCUT -

KING EDWARD VII

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

Frisia 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.

Purple Robe 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.

Twisty Baby® cv. 'Lace Lady' (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.

4' STANDARD Hvy Sel. Hvy #1 #1 lt. 3' 2' 18"

- UNDERCUT -

Twisty Baby® cv. 'Lace Lady' (P.P.9771)(Tortuosa) ZONE 4 Ht. 8-10' & Spread 12-15'

MULTI-STEM FORM

- UNDERCUT -

Salix (Willow)

1 1/2"b 1 1/4"b 1"b 6'b 5'b 4'b

Corkscrew (matsudana 'Tortuosa') ZONE 4-8 Ht. 30-35' Spread 15-20' Wide oval shape. Twisted spiral branches. Yellow fall color. Fast growing. Salt tolerant.

Globe (matsudana 'Umbraculifera') ZONE 5-8 Height & Spread 20' Compact, round head. Tendency to remain rounded with age. Tolerant of poorer, drier soils.

Green Weeping (babylonica) ZONE 4-8 Ht. 30-50' Broad, round head. Dense and weeping. Yellow fall color. Thrives in wet soil conditions.

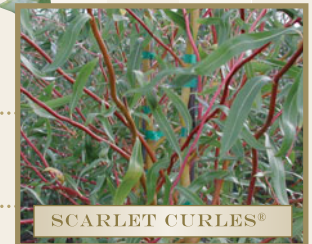
Niobe Golden (alba 'Tristis') ZONE 3-9 Ht. 50-70' Spread 20-30' Round head. Weeping form, yellow bark on young branches. One of the first to leaf out and last to drop leaves. Yellow fall color. Fast growing. Very hardy and attractive. Salt tolerant.

x Golden Curls ZONE 4-8 Ht. 30-35' Spread 15-20' Compact habit. Gold spiral twisted branches. Unusual ornamental tree. Ideal tree for small areas. Yellow fall color.

SHRUB FORM ALSO AVAILABLE PG.70

x Prairie Cascade 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. COPF introduction.

TWISTY BABY®



SCARLET CURLES®

Salix Continued on next page...

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

Shade, Flowering & Specialty Ornamental Trees

Salix Continued from previous page...

1 1/2"b 1 1/4"b 1"b 6'b 5'b 4'b

x Scarlet Curls® cv. 'Scarcuzam' ZONE 5-8 Ht. 25-30' Spread 20' Broadly columnar, vigorous grower with twisted golden branches, scarlet stems and curled leaves. Stems intensify in color after frost. A Lake County Nursery 'ZAM' Introduction.

SHRUB FORM ALSO AVAILABLE PG.70

Salix (Top-grafted Willows)

5' STANDARD

Hvy

#1

#1 lt.

#2

4' STANDARD

Hvy

#1

#1 lt.

#2

caprea 'Pendula' (Weeping Pussy Willow) ZONE 3-8 Ht. 8-10' Spread 6-8' Umbrella shaped weeping form. Pendulous branches. Excellent spring color with fuzzy gray catkins.

purpurea 'Pendula' (Weeping Purpleosier Willow) ZONE 4-7 Ht. 6-8' Spread 4-6' Ideal willow for small gardens. Weeping form. Branches are dark maroon, slender and flexible. Narrow blue-green leaves are slightly glabrous. Delicate texture overall. Small catkins turn to white cottony puffs.

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 ALSO AVAILABLE PG.70

Salix repens (Creeping Willows)

Hvy

#1

#1 lt.

#2

Nitida (Silver Creeping) ZONE 4 Ht. 5-6' Spread 2-3' A weeping willow with branches laden with silky silvery leaves. Semi-prostrate in form with silver catkins in the spring. Prefers full sun.

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 Mtn. 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. 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 -

JAPANESE SNOWBELL

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

Syringa (Bailbelle)

3 1/2' STANDARD Hvy #1 #1 lt. #2

Tinkerbelle® cv. 'Bailbelle' 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 ALSO AVAILABLE PG.73



TINKERBELLE®

Syringa laciniata (Cutleaf Lilac)

3 1/2' STANDARD Hvy #1 #1 lt. #2

Cutleaf Lilac ZONE 4-8 Height and 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.

SHRUB FORM ALSO AVAILABLE PG.73

Syringa meyeri (Dwarf Korean Lilac)

3 1/2' STANDARD Hvy #1 #1 lt. #2

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

- UNDERCUT -

Syringa pekinensis (Pekin Lilac)

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

China Snow® ZONE 3-8 Ht. 35' Spread 30' Upright rounded form, fragrant white flowers mid to late June. Ornamental, amber-colored exfoliating bark. Clean foliage during growing season. SHRUB FORM ALSO AVAILABLE PG.73

- UNDERCUT -

Summer Charm® (P.P.8951) ZONE 4-7 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. SHRUB FORM ALSO AVAILABLE PG.73



SUMMER CHARM®

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. COPF introduction.

SHRUB FORM ALSO AVAILABLE PG.73

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™

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

Taxodium distichum (Baldcypress)

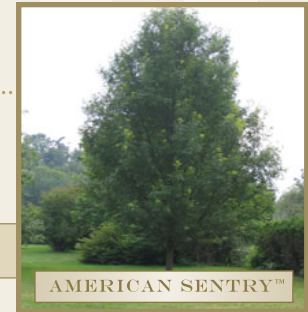
7'b 6'b 5'b 4'b 3'b

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 and can reach 100-120' in height.

- UNDERCUT -

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.

- UNDERCUT -



AMERICAN SENTRY™

Tilia americana (American Linden)

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

American Sentry™ cv. 'McKSentry' ZONE 3 Ht. 45' Spread 30' A native American basswood, this hardy cultivar is pyramidal and symmetrical in shape. Medium green foliage. Yellow fall color. McKay Nursery introduction.

- UNDERCUT -

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.

- UNDERCUT -

Tilia cordata (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.

- UNDERCUT -

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.

Shamrock® cv. 'Baileyi' ZONE 4-7 Ht. 40-50' Spread 30' Broad, conical form. Dark shiny green foliage. Yellow-green fall foliage. Great tree for large areas. Full sun. Bailey Nurseries introduction.

Tilia tomentosa (Silver Linden)

1 1/2"b 1 1/4"b 1"b 6'b 5'b

Sterling® ZONE 4-7 Ht. 40-60' Spread 20-30' 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.

STERLING®

Tilia x mongolica

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

Harvest Gold (P.P.12232) ZONE 3-6 Height 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.

- UNDERCUT -

NEW!



Shade, Flowering & Specialty Ornamental Trees

Ulmus americana

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

Princeton ZONE 5-7 Height 60-80' Spread 40-60' Upright growth habit. Highly resistant to Dutch Elm disease. Fast growing, graceful, symmetrical branching. Introduced by Princeton Nursery.

- UNDERCUT -



Ulmus carpinifolia x parvifolia (Smoothleaf Elm)

1"b* 6'b* 5'b* 4'b* 3'b*

Frontier 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.

Ulmus glabra (Scotch Elm)

BASE BUDDED

Hvy #1 #1 lt. #2

Camperdown Elm 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.

Ulmus japonica x wilsoniana

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

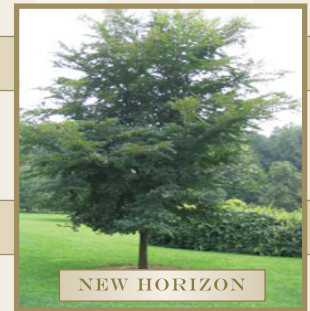
x **Accolade**® cv. 'Morton' ZONE 4-7 Ht. 70' Spread 40-50' Upright, spreading similar to American elm. Very good resistance to Dutch elm disease, elm leaf beetles and leaf miners. Glossy dark green foliage turns golden yellow. Chicagoland Grows® introduction.

- UNDERCUT -

Ulmus japonica x pumila

1 1/2"b* 1 1/4"b* 1"b* 6'b* 5'b* 4'b*

x **New Horizon** (P.P.8684) 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 leaved with a compact appearance and an upright growth habit. Rusty-red foliage in fall.



Ulmus glabra (Complex Hybrids)

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

x **Homestead** ZONE 5-7 Ht. 55' Spread 35' Upright arching, narrow oval form. Dark green foliage. Yellow fall color. Tolerant to Dutch Elm Disease and Phloem Necrosis.

x **Triumph**™ cv. 'Morton Glossy' 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.

Viburnum - TREE FORM -

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

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 turn black. Bacterial leaf spot resistant. Full or partial sun. U.S. National Arboretum introduction. **SHRUB FORM ALSO AVAILABLE PG.74**

lento (*Nannyberry Viburnum*) ZONE 2-8 Ht. 40-50' 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 ALSO AVAILABLE PG.74**

- UNDERCUT -



Viburnum Continued on next page...

Shade, Flowering & Specialty Ornamental Trees

Viburnum Continued from previous page...

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 ALSO AVAILABLE PG.75**

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

COMMON SNOWBALL TREE

Wisteria

macrostachys 'Aunt Dee' (Aunt Dee Wisteria) ZONE 4-8 Height 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 ALSO AVAILABLE PG.80**

Hvy #1 #1 lt. #2

sinensis (Chinese Wisteria) ZONE 5-8 Ht. 6-8' Spread 8-10' Long fragrant pendulous flower racemes appear before leaves. Tree form staked and topped at 5'. Prefers full sun. Carlton Plants asexually propagated color selections.

'Sapphire Blue'TM - blue

'Pink Pearl'TM - pink

'Lavender Lace'TM - purple

'White Diamond'TM - white

LAVENDER LACETM

Zelkova serrata (Japanese Zelkova)

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

- UNDERCUT -

'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.

- UNDERCUT -

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 -



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

Introducing the *Acer rubrum* **AUTUMN RADIANCE®** Red Maple

carlton
PLANTS

- *The Most Spectacular Fluorescent Red Fall Color*
- *Upright and Rounded Form*



Of all the *Acer rubrum* varieties, 'Autumn Radiance®' captures light and reflects it back with a luminosity like no other upon turning red in the fall. On a sunny autumn day, this variety virtually lights up the landscape with

its fluorescent red reflection.

I have a row of ten of these spectacular trees planted along my property line in Northwest Oregon and when they turn their fall color each year they are a radiant red feast for the eyes.

If the staff at Carlton was to recommend one tree variety to brighten up the fall landscape, *Autumn Radiance®* would be our number one choice.

It has a few other nice attributes.

In the spring it flowers quite heavily for a *rubrum*, with a bright red ornamental inflorescence, yet produces a minimal amount of seed.

It is an early fall color producer in the landscape, about two weeks ahead



- *Zone 4 Hardiness*
- *Height & Spread 30-40 feet*
- *Tolerant of Dry Conditions*
- *Excellent Limb Strength*



of typical rubrums. Cold hardiness will allow it to tolerate USDA Zone 4 conditions, yet it colors up well with a low winter chill in milder climates.

As a young tree, it grows more upright but as it matures it rounds out

to a beautifully balanced head, with an approximate fifty foot height and forty foot spread, providing the landscape with a tree form of classic proportions.

Moderate growth rate, branching structure, and crotch angles provide for

excellent limb strength with none of the brittleness as seen in some rubrums or rubrum hybrids. Branching is consistent and well mannered making it easy to prune into a specimen shade tree.

Acer rubrum 'Autumn Radiance'®

is a wonderful (relatively new) choice with which to light up and grace our urban landscapes.

JOE DIXON

Carlton Plants Sales Representative



Experience, dedication and skill are applied by our employees daily,



BEHIND THE SCENES

DEWEY GIDDINGS

With a warm smile and large handshake, Dewey makes it a point to greet just about everyone who visits our nursery. In addition to his hospitable nature, you would be hard-pressed to find another who could match Dewey's speed in data entry, particularly numbers. Dewey acquired his skill entering data on a teletype machine at the Naval Forces Vietnam Headquarters in the early 1970's. He currently manages all internal inventories, allocations, routing trucks and assists in order entry. In addition to his remarkable speed and accuracy, he seems to have memorized all 729 seven digit inventory codes over the past twenty eight years.



RANDY MCCOOL

Utilization of specialized equipment has always been critical toward our ability to accomplish production and harvest processes in a safe, efficient and timely manner. For the past twenty years, the responsibility for the purchase, fabrication, repair and maintenance of this equipment has been that of Carlton's Shop Manager, Randy McCool. With his years of experience, Randy and a crew of skilled individuals face many challenges, always careful to evaluate each situation to insure the best results.

Randy's skill and dedication has helped Carlton Plants meet today's challenges and plan for tomorrow's.



so that quality products will perform for our customers for decades.



LORI SPENCE

When it comes to customer service, Lori sets a defining example of what those words mean. With almost fifteen years in this position at Carlton, she handles her duties with the highest degree of competence, diligence, and efficiency. When a customer needs something, Lori is always quick to respond. She pays attention to the smallest details, watches out for potential problems and works hard to keep everything flowing smoothly. Lori handles customer service and in-house sales responsibilities for four field reps covering twenty four states and provinces. She also coordinates all of the shipping into those areas. She concerns herself with the welfare of all, from truck drivers to field workers, as well as the stray cats and birds that she continually feeds outside her office. Customers and co-workers who have gotten to know her over the years not only appreciate her efforts, but also her sincerity, warmth and friendliness, which when it comes to customer service, are the most important attributes of all.



RICK PAOLA


Just listen to Carlton's radio system and you will soon realize who is in demand. The call sign CN-30 belongs to Rick Paola, the farming manager. As well as handling all soil preparation, cover crops and road maintenance, he is the "go to" person when you want anything done. His in-depth knowledge of the company, its properties, facilities, equipment, people and processes is only matched by his keen observation skills plus a heavy dose of common sense.





carlton[®]
PLANTS


F R U I T T R E E S



Carlton Plants offers a full range of fruit trees — apricots, apples, cherries, pears, peaches, prunes, plums and nectarines 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 early September. 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

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



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 and is one of the best keepers. Good pollinizer. Suggest Red Delicious or Snowdrift crab for pollinizer. 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

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 pollinator. Mid to late blooming variety.

VIRUS CERTIFIED



RIPENS LATE-SEPTEMBER



GRANNY SMITH



ZESTAR!®



Apple Continued on next page...

Apple Continued from previous page...

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

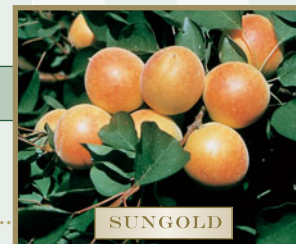
Zestar!® (P.P.11367) ZONE 4-8 An early apple that is crisp and juicy. Best known for its excellent sweet tart flavor with a hint of brown sugar. It ripens in late August to late September (similar to Paulred). Apples remain crisp for 2-2½ months in refrigeration. A University of Minnesota introduction.

VIRUS CERTIFIED



RIPENS LATE AUGUST TO LATE SEPTEMBER

NEW!



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

Wenatchee Moorpark ZONE 5-7 Light yellow-orange skin. A large oval fruit that bears heavy. 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 (*Prunus*) *Budded on Prunus avium*

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

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

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 it's cold hardiness. Self-fruitful.

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

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



Cherry Continued on next page...

Cherry Continued from previous page...

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

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

VIRUS CERTIFIED



RIPENS MID JULY

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

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. Biringer Nsy. 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

Reliance ZONE 5-7 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 (*Pyrus*)

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 texture. Large bell shape. Fresh eating and canning. Excellent dessert quality. Bears heavily and consistently. Midseason bloomer. Suggest Anjou or Bosc as pollinizer.

VIRUS CERTIFIED



RIPENS LATE AUGUST TO EARLY SEPTEMBER

Pear Continued on next page...



Pear Continued from previous page...

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

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 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. Pollinator 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 1 1/16"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

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 pollinizer. Vigorous.
VIRUS CERTIFIED

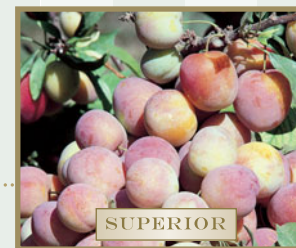


RIPENS MID-AUGUST

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



RIPENS MID-AUGUST



ALL FRUIT TREES CAN BE ORDERED IN MULTIPLES OF 5.

Fruit Trees

Prune (*Semi-Dwarf*)

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

Italian (*Fellenberg*) ZONE 5-8 Purple skin, ripens mid-September. Freestone. Medium size 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 heavy. Resistant to low temperatures. Freestone. Self-fertile. Good pollinator.

VIRUS CERTIFIED



RIPENS EARLY SEPTEMBER

English Walnut (*Juglans regia*)

1 3/4"Hvy 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.



RIPENS MID-FALL

- UNDERCUT -



ZESTAR!® **NEW!**

earlton
PLANTS

S H R U B S & R O S E S



From the uncommon “Harry Lauders Walkingstick” to the more ordinary “Red Rugosa” rose, our generously graded line of hardy bareroot shrubs and roses

provides a cost-effective alternative to your shrub needs. A wide selection of sizes and varieties is available to meet your needs whether you are a grower, a landscaper or

in retail. More than two hundred fifty varieties of 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 ALSO AVAILABLE PG.10



FLAME AMUR MAPLE

Amelanchier (*Serviceberry*)

4' 3' 2' 18" 12"

alnifolia 'Regent' ZONE 2-7 Ht. 4-6' 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' (*P.P. 9092*) 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 ALSO AVAILABLE PG.14.

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 ALSO AVAILABLE PG.14

laevis ZONE 4-9 Ht. 25' Spread 20' Rounded form, moderate growth rate. Small white flowers in spring. Fruit turns from red to dark purple to black. Smooth gray bark. Leaves glossy green in summer, yellow to red in fall. Sun to partial shade. Prefers moist soil but will tolerate a range of soil types.

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. TREE FORM ALSO AVAILABLE PG.14.

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.



AUTUMN MAGIC

Aronia Continued from previous page...

2' 18" 12" 6"

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 (*Barberry*)

30" 24" 18" 15" 12" 9" 6"

thunbergii 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.

thunbergii '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.

thunbergii '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.

thunbergii '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.

thunbergii 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.

thunbergii '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.



Buddleia (*Butterfly Bush*)

#1 Med. #2

davidii (*Butterfly Bush*) ZONE 5-9 Ht. 6-10' Spread 4-6' Vigorous growing. Fragrant large 6-10" flower spikes bloom continuously on new growth. Attractive to butterflies and hummingbirds. Summer and fall bloomer on new wood. Prune annually in late winter. Prefers well drained moist loamy soils. Once established, tolerates heat, drought and city conditions. Full sun.

- 'Black Knight' - deep purple
- 'Dubonnet' - red-purple, long panicles
- 'Empire Blue' - blue
- 'Pink Delight' - pink
- 'Royal Red' - deep magenta-red

davidii var. *nanhoensis* ZONE 5-9 Ht. 6-8' Spread 2-3' Smaller than *davidii* with finer gray-green leaves and shorter spikes. Delicate appearance. Flowers from July to frost. Best if cut back in early spring. Full sun.

- 'Nanho Blue' - clear blue
- 'Nanho Purple' - dark purple



Buxus (Boxwood)

30" 24" 18" 15" 12" 9" 6"

sempervirens '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.

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.

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. Sun to light shade. Deer resistant. COPF introduction.

Callicarpa (Beautyberry)

3' 2' 18" 12" 6"

bodinieri '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.

dichotoma (*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.

Cercis (Redbud)

3' 2' 18" 12"

canadensis (*Eastern Redbud*) ZONE 4 Ht. 15-30' Spread 12-15' Normally grown as a shrub, this small tree with upright growth has bright red branches. These bright red branches make an attractive winter effect. Full sun preferred.

TREE FORM ALSO AVAILABLE PG.17

canadensis 'alba' ZONE 4 Ht. 15-30' Spread 12-15' Similar habits as the species only having pure white flowers. Emerging heart shaped leaves are a distinct lime-green in color. Seed pods are 3" long and flat. Prefers moist well drained soils and partial shade to full sun. **TREE FORM ALSO AVAILABLE PG.17**

Cornus (Dogwood)

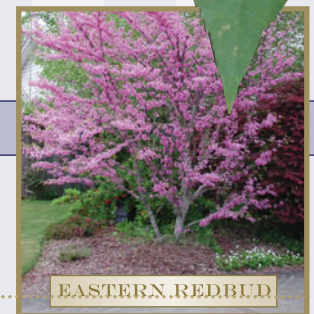
3' 2' 18" 12" 6" 3"

alba 'Argenteo-marginata' (*Variiegated European Dogwood*) ZONE 3-7 Height & Spread 6-8' Upright form. Creamy white margins on the green foliage are wider than American strain. Bright red branches form an attractive winter effect. Full sun preferred but adapts to shade. **TREE FORM ALSO AVAILABLE PG.18**

alba 'Bud's Yellow' ZONE 3-7 Ht. 6-8' Spread 5-8' A yellow stemmed dogwood selection made by Boughen Nurseries in Saskatchewan. Clean attractive medium green foliage. Yellow fall color. COPF introduction.



CALLICARPA



EASTERN REDBUD

Cornus Continued on next page...

Cornus Continued from previous page...

2' 18" 12" 6"

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 more delicate. Good selection for small areas. Sun to part shade.

IVORY HALO®

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.

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 ALSO AVAILABLE PG.18**

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. Bright, cherry-red 1 1/2" fruit, 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 ALSO AVAILABLE PG.18**

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 3/8" cherry-like fruits. Red fall leaf color. Virtually pest free. Upright habit good for screening. Full sun to part shade. **TREE FORM ALSO AVAILABLE PG.18**

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.

'BAILEYI'

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.

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.

PLEASE ORDER ALL SHRUBS IN MULTIPLES OF 10.

Cornus Continued on next page...

Cornus Continued from previous page...

18" 15" 12" 9" 6"

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

Corylus avellana (*European Filbert*)

36" 30" 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 ALSO AVAILABLE PG.18

GRADED BY WIDTH

Cotinus (*Smokebush*)

3' 2' 18" 12" 6"

coggygia Golden Spirit® cv. 'Ancot' (P.P. 13082) ZONE 4-8 Ht. 8' Spread 6' A new exciting introduction from Europe. Unique for its brilliant golden summer color and shades of coral, orange and red fall color. Its growth habit is broadly upright and dense. Golden Spirit® is a rapid grower. Propagation is by softwood summer cuttings or tissue culture. TREE FORM ALSO AVAILABLE PG.19.



GOLDEN SPIRIT®

coggygia '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.

coggygia 'Purple Supreme' ZONE 3-8 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.

coggygia '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 ALSO AVAILABLE PG.19



ROYAL PURPLE

Cotoneaster

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

lucidus (*Peking Cotoneaster*) ZONE 4-7 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.



Deutzia Continued on next page...

Deutzia Continued from previous page...

18" 15" 12" 9"

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 ALSO AVAILABLE PG.20



COMPACTA

Forsythia

3' 2' 30" 24" 18" 15" 12" 9" 6"

giraldiana 'Golden Times' ZONE 5-8 Ht. 6-8' Spread 8' Bright golden and green leaves with a chartreuse center. Color holds well even in full sun. Yellow-gold blooms in spring make this Forsythia attractive all season long. Fast growth rate. Full to partial sun.

viridissima 'Bronxensis' (Dwarf Forsythia) ZONE 5-8 Ht. 12" Spread 2-3' Compact dense growth. Profuse lemon yellow blooms mid-spring. Blooms at a young age. Sharply serrated leaves turn bronze in fall. Great as a groundcover, in borders or mass plantings. Full or partial sun.

GRADED BY WIDTH

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 4-7 Ht. 5-7' Spread 4-6' Dense upright habit. Large flowers with rich yellow color. Blooms are well distributed along the stem. Excellent for cut flowers. One of the first spring bloomers. Tolerates city conditions in sun or shade.

3' 2' 18" 12" 6"

LYNWOOD GOLD

x intermedia Spring Glory ZONE 4-8 Height & Spread 6-8' Upright slightly arching form. Noted for its heavy blooming habit. Large pale yellow flowers in April. Performs well in sun or slight shade.

NEW!

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 Univ. of N. Dakota. Plant in full sun or partial shade.

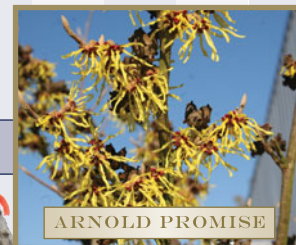


Forsythia Continued on next page...

Forsythia Continued from previous page...

2' 18" 12"

'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. COPF introduction.



ARNOLD PROMISE

Hamamelis (*Witchhazel*)

3' 2' 18" 12" 6"

vernalis (*Vernal Witchhazel*) ZONE 4-8 Ht. 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.

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 ALSO AVAILABLE PG.22

GRAFTED MULTI-STEM

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

TREE FORM ALSO AVAILABLE PG.22

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 ALSO AVAILABLE PG.22

GRAFTED MULTI-STEM



HAMAMELIS DIANE

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 - 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
- 'Woodbridge' - single, clear, rose-pink with red eye
- Blue Satin® 'Marina' (P.P.12680)



HIBISCUS

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 year's growth. Very showy in full bloom. Virtually pest free. Sun or part shade.

Hydrangea Continued on next page...

Hydrangea Continued from previous page...

#1 Med. #2

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 'Lemon Wave' (*Lemon Wave Hydrangea*) ZONE 5-9 Ht. 4-6' Spread 3-5' Rounded form. Foliage is mottled deep green with yellow margins. An attractive replacement for 'Variegata'. White to pink 8" lacecap type blooms last from July until October. Prefers filtered afternoon sun and moist well drained soil.

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 Pink Parfait™ cv. 'Anderson I' (*Pink Parfait Bigleaf Hydrangea*) ZONE 6-9 Height & Spread 4-5' Large ruffled flower heads with outstanding pink color. Dark-green foliage deeper than 'Nikko Blue'. Carlton Plants selection. Full to partial sun.

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. **TREE FORM ALSO AVAILABLE PG.23**

paniculata 'Limelight' PP #12,874 ZONE 3 Ht. & Spread 6-8' Bloom time begins in late July to early August. Remains showy through autumn. Unique bright green blooms in mid-summer changing color to a rich deep pink in autumn. Flower heads range from 6 to 12 inches. Adaptable to many soils, moderate moisture. Full sun to light shade. Spring Meadow Nursery introduction.

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 to 8" white blooms turn creamy yellow with pink edges. Coarse branches. Dark green leaves. Prefers full sun. **TREE FORM ALSO AVAILABLE PG.23**

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 ALSO AVAILABLE PG.23**

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.

quercifolia 'Alice' (*Alice Oakleaf Hydrangea*) ZONE 5-9 Ht. & Spread 12' 10 to 14" inflorescences on vigorous shoots 8 to 10" 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.

ANNABELLE

NIKKO BLUE

2' 18" 12" 6"

PINK PARFAIT™

#1 Med. #2

Hydrangea Continued on next page...

Hydrangea Continued from previous page...

#1 Med. #2

quer. Snowflake ZONE 5-9 Height & Spread 6-7' Form is compact, rounded. Foliage 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.

LIMITED AVAILABILITY

NEW!

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 Ht. & 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.

OAKLEAF HYDRANGEA



Hypericum (*St. Johnswort*)

#1 Med. #2

frondosum '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.

kalmianum (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.

PINK BEAUTY

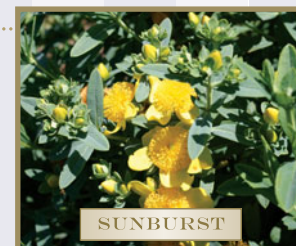


Ilex (*Holly*)

2' 18" 12" 6"

verticillata 'Southern Gentleman' (Southern Gentleman Winterberry) ZONE 3-9 Height & Spread 8' Verticillata are the hardiest of all hollies, Southern Gentlemen 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.

verticillata '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.



SUNBURST

PLEASE ORDER ALL SHRUBS IN MULTIPLES OF 10.

Itea (*Sweetspire*)

24" 18" 15" 12" 9"

virginica '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.

virginica Little Henry® cv. 'Sprich' (P.P.10988) ZONE 5-9 Height 18-24" Spread 3' Low mounded form. Blooms in spring with sweetly scented pure white flowers that cover the plant. It has a low compact stature and is great for beds, borders and mass plantings. Excellent red fall color.

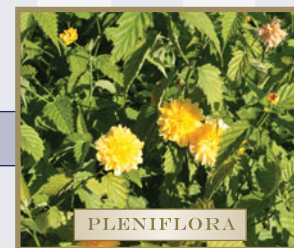
NEW!



Kerria

2' 18" 12" 6"

japonica '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.



Kolkwitzia (*Beautybush*)

2' 18" 12" 6"

amabilis '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.

Ligustrum (*Privet*)

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

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 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.

Lonicera (*Honeysuckle*)

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

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.

xylosteum 'Emerald Mound' (*Emerald Mound Honeysuckle*) ZONE 4-8 Height & Spread 2-4' Mounding form. Rich blue-green foliage. Yellow-white flowers. Dark red berries in fall. Good used as a groundcover or in foundation plantings. Full or part sun.

GRADED BY WIDTH



Lonicera Continued on next page...

Lonicera Continued from previous page...

3' 2' 18"

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

2' 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 ALSO AVAILABLE PG.31**

PERSIAN PARROTTIA

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.

NEW!

Philadelphus (Mockorange)

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

coronarius 'Aureus' (Golden Mockorange) ZONE 4-8 Ht. 4-6' Spread 3-5' Compact shrub with lemon yellow foliage that greens with heat. Lily-white, fragrant double blossoms. Holds color best in cool temperatures. Prefers full or partial sun. Adaptable to most any soil types.

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. COPF introduction.

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.

BLIZZARD MOCKORANGE

x *virginalis 'Virginal' (Virginal Mockorange)* ZONE 5-8 Ht. 5-8' Spread 5-6' A broad well branched shrub. Arching branches. Pure white, very fragrant 2" semi-double flowers attract butterflies. Blooms May - June. Prefers full sun. Tolerant of poor soils, coastal conditions and pollution.

Physocarpus (Ninebark)

2' 18" 12" 6"

opulifolius Center Glow® 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 darker and are deep burgundy color at maturity. Flower buds are light pink opening to clusters of white flowers. Full sun. Prefers well-drained soil. Landscape Plant Development Center introduction. **TREE FORM ALSO AVAILABLE PG.31**

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.



Physocarpus Continued on next page...

Physocarpus Continued from previous page...

3' 2' 18" 12" 6"

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 ALSO AVAILABLE PG.32**

opulifolius Summer Wine® cv 'Seward' (P.P. 14821) ZONE 3 Height & Spread 5-6' This improved Ninebark has neat compact branching and fine deeply cut, dark crimson-red leaves. Requires little pruning. Pinkish-white button-like flowers mid-summer. Very showy and extremely hardy. Full sun. Spring Meadow Nursery selection. **TREE FORM ALSO AVAILABLE PG.32**



DIABOLO®

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.

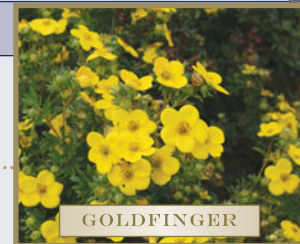
fruticosa 'Gold Drop' (*Gold Drop Potentilla*) ZONE 2-7 Height & Spread 2-3' Dwarf compact form. Attractive fine textured foliage. Abundant large 3/4" deep yellow flowers. Full sun.

fruticosa 'Gold Star' ZONE 2 Height 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.

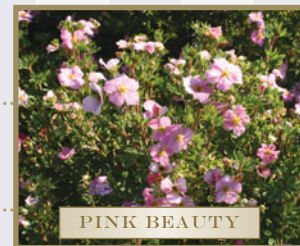
fruticosa 'Goldfinger' (*Goldfinger Potentilla*) ZONE 2-7 Ht. 2-3' Spread 2' Compact mounding form. Fine-textured dark green foliage. Large 1 1/2" golden-yellow, buttercup-like flowers continue blooming all summer. Full sun.

fruticosa 'Pink Beauty' (P.P. 9874) (*Pink Beauty Potentilla*) ZONE 3-7 Height and 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 Nsy.

fruticosa 'Snowbird' (*Snowbird Potentilla*) ZONE 2-7 Height and Spread 2-3' Semi-double large creamy-white blooms. Compact mounded habit. Attractive dark green, glossy leaves. Prefers full sun. COPF introduction.



GOLDFINGER



PINK BEAUTY



POTENTILLA SNOWBIRD

Prunus

4' 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. Edible 1/3" scarlet fruit 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.

RED SELECT TREE FORM ALSO AVAILABLE PG.35

VIRUS CERTIFIED

Prunus Continued on next page...

Prunus Continued from previous page...

3' 2' 18" 12" 6"

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. **VIRUS CERTIFIED**

TREE FORM ALSO AVAILABLE PG.34

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 ALSO AVAILABLE PG.37**

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.

frangula Fine Line® cv. 'Ron Williams' (*P.P.14,791*) ZONE 3-7 Ht. 6' Spread 3' Combines the fern-like foliage of *Asplenifolia* with the narrow upright habit of 'Columnaris'. Good for narrow hedges. Produces very few fruit. Non-invasive cultivar. Turns butter yellow in the fall. Adaptable to many soils, moderate moisture. Full sun to light shade.



Rhus (*Sumac*)

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

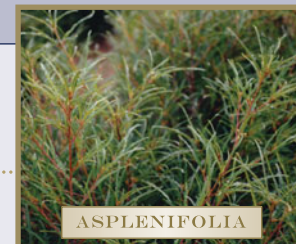
aromatica (*Fragrant Sumac*) ZONE 3-9 Ht. 4-6' Spread 3-5' Low, irregular spreading suckering shrub. Fast growing. Small yellow flowers produce red berries. Aromatic leaves are soft and fuzzy. Brilliant scarlet-orange in autumn. Drought tolerant when established. Full sun or shade.

aromatica 'Gro-Low' (*Gro-Low Fragrant Sumac*) ZONE 4-9 Ht. 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**

glabra (*Smooth Sumac*) ZONE 2-7 Ht. 6-8' Spread 3-5' Selected to grow slower and smaller than species. Red seed heads. Smooth stems are not hairy like *typhina*. Orange, red, and purple color combinations in fall. Tolerates alkaline soils. Spread due to suckering. 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.

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.



ASPLENIFOLIA



Rhus Continued on next page...

PLEASE ORDER ALL SHRUBS IN MULTIPLES OF 10.

Rhus Continued from previous page...

3' 2' 18" 12"

typhina Tiger Eyes® cv. Baitiger (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 contrast
nicely with the rose-pink leaf stems. Intense scarlet fall colors.

NEW!



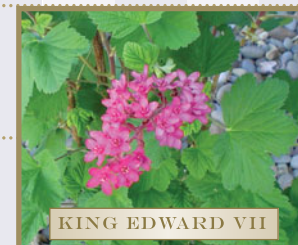
LACINIATA

Ribes (Currant)

30" 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 and 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 ALSO AVAILABLE PG.38**



KING EDWARD VII

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 and
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. COPF introduction.

Rosa (Hardy Roses)

#1 #1½ #2

Bonica® cv. 'Meidomonac' ZONE 4 Height and 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 Beauty™ cv. 'Buchi' ZONE 4 Height and Spread 4' Semi-double large 2" pink
fragrant floribunda blooms. Free-flowering from late spring to autumn. Great cut flowers.
Vigorous, upright to spreading habit. Olive-green leaves. Orange hips. Disease resistant.
Tolerant of poor soils. Full sun. Widely used landscape rose, also good for hedges. Low
care plant. Conard-Pyle introduction.

Carefree Sunshine™ cv. 'Radsun' ZONE 4-7 Height and 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.

Champlain ZONE 4 Height & Spread 3-4' Dark velvet-red double flowers up to 3"
across, borne in clusters. Continuous bloomer til frost. Slightly fragrant. Dense and
bushy. Yellowish-green leaves. Disease resistant to mildew and black spot. Explorer™
Series. COPF introduction.



BONICA®

Rosa Continued on next page...

PLEASE ORDER ALL SHRUBS IN MULTIPLES OF 10.

Rosa Continued from previous page...

#1 #1½ #2

Double Knockout® cv. 'Radiko' (P.P. 16202) ZONE 4-9' Ht. 3-4' Spread 3-4' A sister seedling to the Knock Out®. Double Knockout® has kept all the high disease resistance characteristics of it's 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. Fragrance, light tea.

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 Ht. 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).

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 Co. (Star® Roses) introduction.

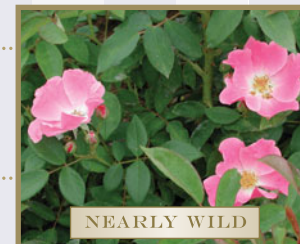
rubrifolia (glauca) ZONE 2 Ht. 4-6' Spread 3-5' Single star shaped bright pink flowers. Fragrant. New leaves are red tinged turning to deep purple with dark purple canes. A very attractive feature. Few thorns on new growth. Hips are purple-red, elongated, and persistent. Used as a specimen or in groupings.

rugosa (Red Rugosa Rose) ZONE 3 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.

Scarlet Meidiland® cv. 'Meikrotal' ZONE 4 Height & Spread 3-6' Double scarlet-red, small blooms 1½" across. Blooms abundantly for four weeks then repeats until frost. Makes a dense high mounding groundcover. Can tolerate some shade. Meidiland family. Conard-Pyle Co. introduction.

Sunny Knockout® cv. 'Radsunny' (P.P. 14700) ZONE 4-7 Ht. 3' Spread 3' Sunny Knockout® 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 Co. introduction.



Rosa Continued on next page...

SHRUBS & ROSES

Rosa Continued from previous page...

#1 #1½ #2

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. Parkland series, COPF introduction.

WHITE RUGOSA ROSE



Salix (Willow)

4' 3' 2' 18" 12"

caprea (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.

purpurea 'Nana' (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.

x integra 'Hakuro Nishiki' (Dappled Willow) ZONE 3-7 Height 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 ALSO AVAILABLE PG.39**

x Flame 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.

x 'Golden Curls' ZONE 4-7 Ht. 30-35' Spread 15-20' Gold spiral twisted branches. Unusual ornamental shrub. Narrow bright green leaves turn buttery-yellow in fall. Stems used in floral arrangements. **TREE FORM ALSO AVAILABLE PG.38**

x 'Scarlet Curls'® 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. **TREE FORM ALSO AVAILABLE PG.39**

SCARLET MEIDLAND®



SUNNY KNOCKOUT®



Sambucus nigra (European Elder)

#1 Med. #2

Black Beauty™ cv. 'Gerda' (P.P.12305) ZONE 4-7 Height & Spread 8-10' Superb purple-black foliage provides long lasting interest. Much darker and more intensely purple than any other form. The contrasting pink flowers in June have a light lemon fragrance. Beautiful planted with yellow or chartreuse plants. Purple elderberries, attractive to songbirds follow in the fall. Tolerant of a wide range of soils and grows best in full sun. Can be trained into a small tree. Versatile and easy to grow.

'Madonna' 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.



BLACK BEAUTY™

Sorbaria (*Ash Leaf Spirea*)

2' 18" 12" 6"

sorbifolia (*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.

Spiraea

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

billardii 'Triumphans' (*Triumphans Billard Spirea*) ZONE 3-8 Ht. 4-6' 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.

japonica albiflora (*Japanese White Spirea*) ZONE 3-8 Height & Spread 1-2' Low grower. 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.

japonica alpina (*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. **GRADED BY WIDTH**

japonica Golden Princess™ cv. 'Lisp' (*P.P.7537*) ZONE 3-8 Height and 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 a groundcover or in rock gardens. Full sun. Conard-Pyle Co. introduction **GRADED BY WIDTH**

japonica 'Little Princess' (*Little Princess Spirea*) 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.

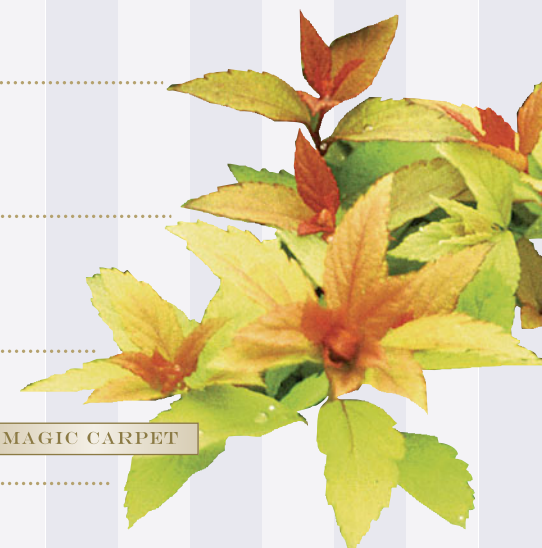
japonica 'Magic Carpet' (*P.P.9363*) ZONE 3-8 Height Spread 18-24" Spread 2' New growth emerges red and turns to rich bronze foliage with red edges. Deep pink flower clusters. Compact form. Good orange-red fall color remaining into November. Prefers full sun. PlantHaven Inc. introduction

japonica 'Shirobana' (*Shirobana Spirea*) 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 'Halward's Silver' (*Halward's Silver Spirea*) ZONE 3-8 Height & Spread 2-3' Similar to 'Snowmound' but hardier with a more compact, dense mounding habit and tighter profuse flowering. Full sun to part shade. COPF introduction, originally from Japan. **GRADED BY WIDTH**

nipponica 'Snowmound' (*Snowmound Spirea*) 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 'Crispa' (*Crisp Leaf Spirea*) ZONE 4-8 Height & Spread 2-3' Crinkled twisted leaves. 3" pink flower clusters. Continuous summer bloomer with pruning. Orange fall color. Full or partial sun.



MAGIC CARPET



TRIUMPHANS

Spiraea Continued on next page...

Spiraea Continued from previous page...

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

x bumalda 'Froebel' (*Froebel Spirea*) 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 'Gold Flame' (*Gold Flame Spirea*) 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 Spirea*) 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 Spirea*) 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.

x bumalda 'Sapho' (*Anthony Waterer Spirea*) ZONE 4-8 Height 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.



DAPHNE SPIREA



NEON FLASH

Symphoricarpos

3' 2' 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 (*Indiancurrennt 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



HANCOCK

Syringa (Lilac)

2' 18" 12" 6"

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 ALSO AVAILABLE PG.40**

Syringa Continued on next page...

Syringa Continued from previous page...

5' 4' 3' 2' 18" 12" 6" 3"

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.

pekinensis China Snow® ZONE 3-8 Ht. 35' Spread 30' Upright rounded form. Fragrant white flowers mid to late June. Ornamental amber-colored exfoliating bark. Clean foliage during growing season. **TREE FORM ALSO AVAILABLE PG.40**

pekinensis Summer Charm® (*P.P.8951*) ZONE 4-7 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.

TREE FORM ALSO AVAILABLE PG.40

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. COPF introduction. **TREE FORM ALSO AVAILABLE PG.40**

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 ALSO AVAILABLE PG.40**

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.

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.

'Adelaide Dunbar' - double, deep purple - fragrant

'Beauty of Moscow' - double, pink to white - highly 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

'Montaigne' - double, pink - fragrant

'President Grevy' - double, blue - fragrant

'President Lincoln' - single, blue - highly fragrant

'Primrose' - single, creamy yellow - fragrant

'Sensation' - single, variable bloom-white, purple, bi-color - fragrant

'Yankee Doodle' - single, deep dark purple - fragrant

x chinensis (*Chinese Lilac, rothomagensis*) ZONE 3-7 Height & Spread 10-15' Upright, dense vigorous grower. Flowers are purple-lilac, fragrant in April-May. Very hardy. Good for screens and hedges. Less susceptible to mildew than *vulgaris* varieties. Full sun.



Syringa Continued on next page...

Syringa Continued from previous page...

3' 2' 18" 12" 6"

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' COPF 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. COPF introduction.

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. Nonsuckering and vigorous. Very hardy. Dr. Cumming, Morden Arb.
Canada introduction.

Viburnum

2' 18" 12" 6"

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.



AUTUMN JAZZ®

dent. Blue Muffin™ cv. 'Christom' (*Blue Muffin™ Arrowwood Viburnum*)
ZONE 3 Ht. & Spread 8' Exceptionally hardy, compact plant great for screening or
mass plantings. Profuse white blooms in spring are followed by a display of bright blue
berries that are very attractive to songbirds. Foliage is reddish purple. One of the most
shade tolerant viburnums.

dent. Chicago Lustre® cv. 'Synnvestvedt' (*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.

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.

NORTHERN BURGUNDY



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.

TREE FORM ALSO AVAILABLE PG.42

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 ALSO AVAILABLE PG.42

PLEASE ORDER ALL SHRUBS IN MULTIPLES OF 10.

Viburnum Continued on next page...

Viburnum Continued from previous page...

4' 3' 2' 18" 15" 12" 9" 6" 3"

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 ALSO AVAILABLE PG.43

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.

prunifolium (*Blackhaw Viburnum*) ZONE 3-9 Ht. 10-12' Spread 6-8' Large upright mult-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.

sargentii '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.



COMMON SNOWBALL



NEWPORT®



Viburnum Continued on next page...

Viburnum Continued from previous page...

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

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. Bronze-red fall color. 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.

x burkwoodii 'Mohawk' (*Burkwood Mohawk Viburnum*) ZONE 3-7 Height & Spread 6-8' Compact rounded form. Dark red flower buds open to white petals with red blotched reverse. Spicy clove fragrance. Foliage resistant to bacterial leaf spot and powdery mildew. Leaves turn brilliant orange-red in autumn. Very hardy.

OXONDAGA



Weigela

3' 2' 18" 12" 6"

florida Carnaval™ cv. 'Courtalor' (*Carnaval Weigela*) ZONE 4-8 Ht. 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. COPF introduction.

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 Co. (Star® Roses) introduction.

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.

florida Wine & Roses® cv. 'Alexandra' (P.P.10772) ZONE 4-9 Height & Spread 4-5' Dense rounded arching form. Dark glossy, burgundy-purple leaves do not fade as summer continues. Rose-pink flowers attract butterflies and hummingbirds. Full sun for best leaf color. Very adaptable and disease free. A hybrid from the Netherlands. Spring Meadow Nursery introduction.

WEIGELA CARNAVAL™



WINE & ROSES®



PLEASE ORDER ALL SHRUBS IN MULTIPLES OF 10.

Quality & Value is a Thousand Details...



ROSA WINNIPEG PARKS

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 SHRUBS ARE GRADED IN 3" INCREMENTS UP TO 18" AND IN 6" INCREMENTS BEYOND THAT SIZE.

DWARF SHRUB SIZES

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

STANDARD SHRUBS FROM 6" ARE GRADED IN 6" INCREMENTS UP TO 24" AND 12" INCREMENTS ABOVE 24".

STANDARD SHRUB SIZES

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



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, winter

pattern, 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.

Celastrus (*Bittersweet*)

#1 MED. #2

'Diana' ZONE 3-8 Ht. 10-20' Female selection

'Hercules' ZONE 3-8 Ht. 10-20' Male selection

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.

TRUMPETCREEPER

Lonicera (*Honeysuckle*)

#1 MED. #2

japonica 'Halliana' (*Halls Honeysuckle*) ZONE 5-9 Ht. 20-30' White fragrant flowers fade to yellow as they age. Blooms are borne all along the stems. Leaves are long, pointed and downy. Good as a screen or groundcover. Vigorous. Tolerates wet soils. Prefers full sun to partial shade.

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 but not fragrant. 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 but 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 resistance.

BOSTON IVY

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.

quinquefolia var. *engelmanni* (*Engleman Ivy*) ZONE 3-9 Ht. 30-40' This cultivar has smaller leaves than the species and less vigorous. Deep burgundy fall color. Small blue fruits and are attractive to birds.

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, 3 lobed, 3-8" wide. Vigorous self clinging vine. Easily climbs stone work, buildings and trees. Berries are blue-black and attract birds.



Polygonum

#1 MED. #2

aubertii (*Silverlace Vine*) ZONE 5-7 Ht. 25-35' Vigorous, twining climber ideal for covering arbors, fences and steep banks. Showy greenish-white flower panicles appear in August and turn pink with the oncoming seeds. Fragrant. Reddish fall leaf color. Prefers full sun to partial shade.

Wisteria

#1 MED. #2

macrostachys 'Aunt Dee' (*Aunt Dee Wisteria*) ZONE 4-8 Height 15-20' Light lilac-purple, 7 to 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 ALSO AVAILABLE PG.43

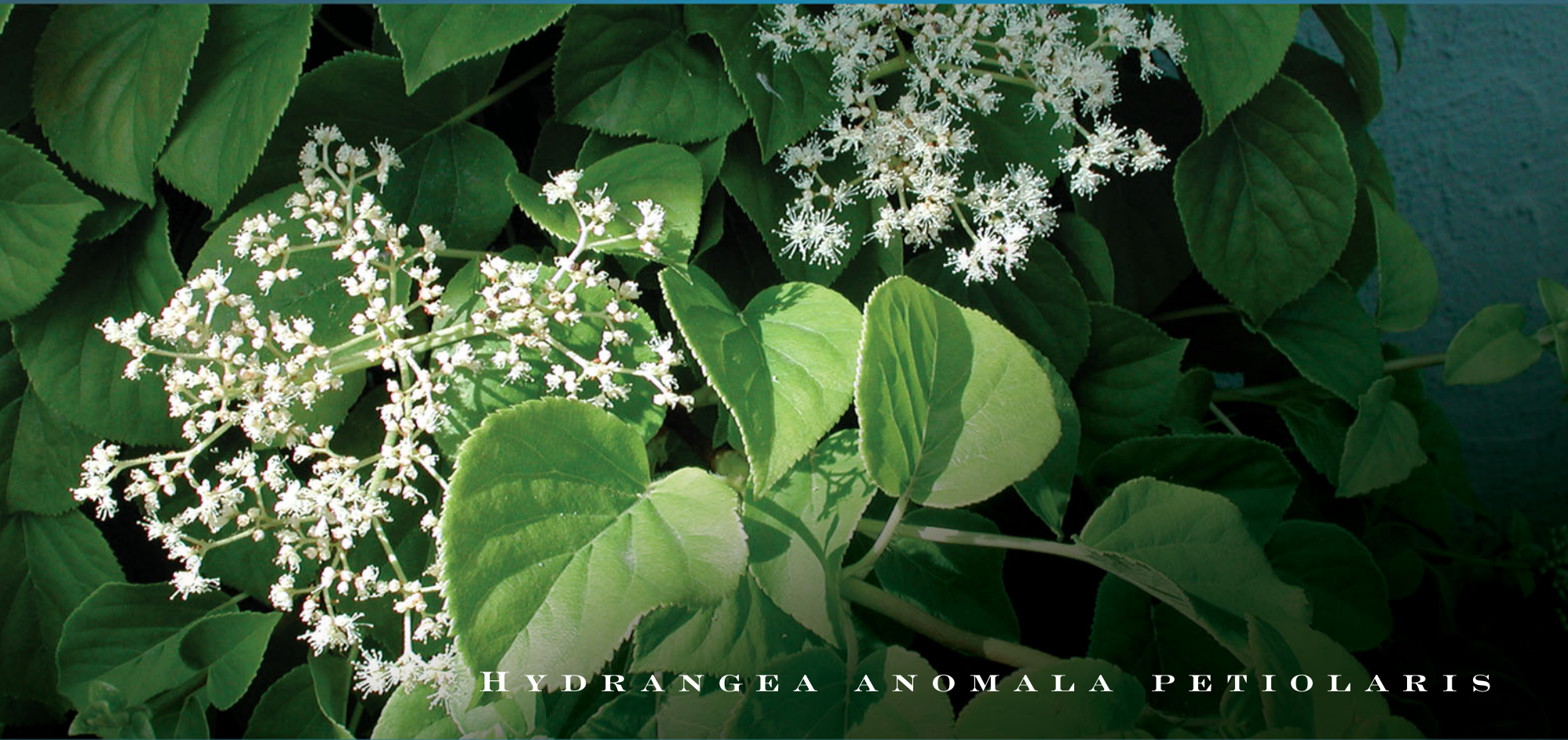


AUNT DEE

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Quality & Value is a Thousand Details...



HYDRANGEA ANOMALA PETIOLARIS



Diversity and selection through innovative propagation...

- SOFTWOOD CUTTINGS
- HARDWOOD CUTTINGS
- LAYERS
- SEEDLINGS
- ROOT SECTIONS
- BUDDING & GRAFTING
- TISSUE CULTURE

Propagation Facility



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 doubling 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 orders. 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

Rootstocks & Seedlings

Acer campestre (Hedge Maple)

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

- CONSERVATION -

Hedge Maple ZONE 4-8 Height & 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.

<18" >18"

Acer circinatum (Vine Maple)

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

- CONSERVATION -

Vine Maple ZONE 6-8 Ht. 15-20' Spread 12-15' Multi-stemmed, open form. Winged red samaras in late spring. Mixture of orange, scarlet and yellow fall colors are early and lengthy. Oregon native.

<18" >18"

Acer ginnala Flame (Amur Maple)

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

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

Flame ZONE 2-8 Height & Spread 15-20' Small, dense form. Red fruit. Fiery red, uniform fall color. Slow growing. Very cold hardy. Tolerates infertile, dry and alkaline soils. Grows well in shade and adapts to containers. Recommended street tree for between streets, sidewalks and under utility lines.

<18" >18"

Acer negundo (Boxelder)

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

- CONSERVATION -

Boxelder ZONE 3-9 Height & Spread 50' Broad rounded head, irregular branching. Understock used for other cultivars having better landscape merit.

>18"

Acer platanoides (Norway Maple)

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

Norway Maple ZONE 3-7 Ht. 40-50' Spread 30-40' Fast growing. Transplants easily. Adapts well to extremes in soils and can withstand clay or sandy conditions. Understock used for many Norway cultivars.

Acer rubrum (Red Maple)

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

- CONSERVATION -

Red Maple ZONE 3-7 Height & Spread 50-75' Green leaves with light-green to silver undersides. Yellow to red fall color. Adapts to many geographic areas. Also used as an understock.

<18" >18"

Acer saccharum (Sugar Maple)

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

- CONSERVATION -

Sugar Maple ZONE 3-8 Ht. 60-75' Slow to medium growth rate. Prefers well drained, slightly acidic to neutral soils. Used mostly as an understock.

<18" >18"

Acer tataricum (Tatarian Maple)

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

- CONSERVATION -

Tatarian Maple ZONE 3-8 Ht. 25' Spread 20' Shrub or small tree. Tolerates cold dry climates, drought and alkaline soils. Delicately scented creamy white flowers.

<18" >18"

Alnus glutinosa (Alder)

1/4" #1 #2 #3

Black Alder ZONE 4-7 Height 30-40' Spread 30' Upright when young, rounded at maturity. A fast growing European native tree that thrives in wetter soils.

NEW!



Rootstocks & Seedlings

Amelanchier (*Serviceberry*)

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

alnifolia 'Regent' ZONE 2-7 Ht. 4-6' 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.



Amelanchier canadensis (*Shadblow Serviceberry*)

3/8" 1/4" #1 #2 #3 SHRUB FORM 18-24" 12-18" 6-12" 3-6"

Shadblow Serviceberry 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 -

<18" >18"

Amelanchier laevis (*Allegheny Serviceberry*)

3/8" 1/4" #1 #2 #3 SHRUB FORM 18-24" 12-18" 6-12" 3-6"

Allegheny Serviceberry 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 -

<18" >18"

Amelanchier lamarckii (*Lamarck Serviceberry*)

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

Lamarck Serviceberry 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 -

<18" >18"

Betula papyrifera (*Paper Birch*)

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

Paper Birch 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.

<18" >18"

Caragana arborescens (*Siberian Pea Shrub*)

3/8" 1/4" #1 #2 #3 SHRUB FORM 18-24" 12-18" 6-12" 3-6"

Siberian Pea Shrub 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.

Carpinus betulus (*European Hornbeam*)

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

European Hornbeam ZONE 5-7 Ht. 30-40' 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.

<18" >18"

Carpinus caroliniana (*American Hornbeam*)

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

American Hornbeam 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.

<18" >18"

Celtis occidentalis (*Common Hackberry*)

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

Hackberry 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.

<18" >18"

Rootstocks & Seedlings

Cotoneaster lucidus (<i>Peking Cotoneaster</i>)	SHRUB FORM	18-24"	12-18"	6-12"	3-6"	- CONSERVATION -		
Peking Cotoneaster 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>						<18" >18" <input style="width: 100%; height: 15px;" type="text"/>		
Crataegus crusgalli (<i>Cockspur Hawthorn</i>)		3/8"	1/4"	#1	#2	#3	- CONSERVATION -	
Cockspur Hawthorn ZONE 4-7 Ht. 15-20' Spread 10-15' Rounded to wide-spreading form. Dark green leaves bronze to purple-red in fall. Single fragrant white blooms in May followed by persistent red fruit attractive to wildlife. Vigorous, attractive small tree. Tolerates hot, dry and salty conditions. Full sun.						<18" >18" <input style="width: 100%; height: 15px;" type="text"/>		
Crataegus monogyna (<i>Singleseed Hawthorn</i>)		3/8"	1/4"	#1	#2	#3	- CONSERVATION -	
Singleseed Hawthorn ZONE 4-7 Ht. 20-30' Round-headed tree, densely branched. Used as understock for many Hawthorns.						<18" >18" <input style="width: 100%; height: 15px;" type="text"/>		
Crataegus phaenopyrum (<i>Washington Hawthorn</i>)		3/8"	1/4"	#1	#2	#3	- CONSERVATION -	
Washington Hawthorn ZONE 4-8 Ht. 20-25' Rounded upright form. Fall color orange to scarlet. White flower clusters appear in May. Small, 1/4" glossy red fruit clusters persist all winter. Resistant to fireblight. Very adaptable, does well in southern states. Thorns are 1/2" long and abundant. Full sun.						<18" >18" <input style="width: 100%; height: 15px;" type="text"/>		
Eucommia ulmoides		3/8"	1/4"	#1	#2	#3	- CONSERVATION -	
Eucommia ulmoides 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.						<18" >18" <input style="width: 100%; height: 15px;" type="text"/>		
Fraxinus pennsylvanica lanceolata (<i>Green Ash</i>)		3/8"	1/4"	#1	#2		- CONSERVATION -	
Green Ash ZONE 3-8 Ht. 50-60' Spread 25-30' Pyramidal when young to upright-spreading at maturity. Fast growing. Understock used for most ash cultivars.						<18" >18" <input style="width: 100%; height: 15px;" type="text"/>		
Gleditsia triacanthos (<i>Common Honeylocust</i>)		3/8"	1/4"	#1	#2		- CONSERVATION -	
Honeylocust ZONE 4-7 Height & Spread 40-60' Open spreading crown. Fast growing. Used mostly as an understock.						<18" >18" <input style="width: 100%; height: 15px;" type="text"/>		
Halesia monticola (<i>Mountain Silverbell</i>)		1/4"		#1	#2	SHRUB FORM	18-24" 12-18" 6-12" 3-6"	- CONSERVATION -
Mountain Silverbell ZONE 5-8 Ht. 50-60' Spread 20-30' Native to the southeast. Large shrub or small tree.						<18" >18" <input style="width: 100%; height: 15px;" type="text"/>		
Laburnum anagyroides (<i>Goldenchain Laburnum</i>)		3/8"	1/4"	#1	#2	#3	- CONSERVATION -	
Goldenchain Laburnum ZONE 5-7 Ht. 12-15' Spread 9-12' Distinctly upright oval to round-headed tree. Understock for 'Vossi' and other Laburnum cultivars.						>18" <input style="width: 100%; height: 15px;" type="text"/>		

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

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 faired 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 5-8 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 25 (M25) ZONE 5-8 A Malling rootstock which is very vigorous and precocious. Like Malus domestica, it has been found to work well with certain spur-type Red Delicious varieties that have a tendency to "run out" (slow down) on M111 or domestic seedlings. The M25 is approximately 20% more vigorous than seedling rootstock.

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 5-8 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

Malus Continued on next page...



Rootstocks & Seedlings

Malus Continued from previous page...

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

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

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

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 LONG TOPS

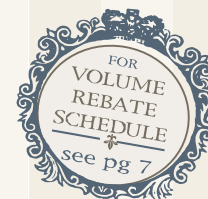
Mazzard Cherry ZONE 4-8 Mazzard rootstocks have proven to be reliable in all climates where cultivated cherries thrive. It has a spreading root habit that tolerates heavier soils and is the preferred rootstock in soils too heavy for Mahaleb. It is generally considered to be a standard size controlling 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 subhirtella (Higan Cherry)

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

Higan ZONE 4-8 Height 30-40' Spread 20-30' Used mainly as an understock for Weeping Higan (subhirtella) cherry either base budded or grafted at 6'. Propagated from seed or rooted cuttings.

NEW!

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 and 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

Calleryana ZONE 5-9 Ht.15-25' Strong horizontal branching. Pure white flowers borne in clusters turn to small round fruits. Thorny branches. Tolerates pollution. Calleryana is the least susceptible species in this genus to fireblight.

Pyrus Continued on next page...

Rootstocks & Seedlings

Pyrus Continued from previous page...

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

Ussuriensis 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. *Pyrus ussuriensis* 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 hardiest of all pears.

VIRUS CERTIFIED

Rhamnus frangula (*Buckthorn*)

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

Columnaris (*Columnar Buckthorn*) 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.

Rhus aromatica (*Fragrant Sumac*)

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

Fragrant Sumac ZONE 3-9 Ht. 4-6' Spread 3-5' Low, irregular spreading, suckering fast growing shrub. Small yellow flowers produce red berries. Aromatic leaves are soft and fuzzy. Brilliant scarlet-orange autumn color. Drought tolerant when established. Full sun or partial shade.

Rhus glabra (*Smooth Sumac*)

3/8" 1/4" #1 #2 #3 SHRUB FORM 12-18" 6-12"

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 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.

Rhus typhina (*Staghorn Sumac*)

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

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 on female plants. Stems covered with dense velvet hair. Medium green leaves turn vivid orange-scarlet in fall. Sun or shade.

Robinia pseudoacacia (*Black Locust*)

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

Black Locust 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.

Rosa rugosa (*Hardy Roses*)

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

rugosa (*Red Rugosa Rose*) 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.

Rosa rugosa Continued on next page...



Rootstocks & Seedlings

Pyrus Continued from previous page...

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

rugosa Alba (White Rugosa Rose) 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.

Sorbus aucuparia (European Mountain Ash)

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

- CONSERVATION -

European Mountain Ash 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"

Syringa reticulata (Japanese Tree Lilac)

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

- CONSERVATION -

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.

<18" >18"

Syringa vulgaris (Common Purple Lilac)

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

- CONSERVATION -

Common Purple Lilac ZONE 2-7 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"

Tilia cordata (Littleleaf Linden)

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

- CONSERVATION -

Littleleaf Linden 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"

Tilia tomentosa (Silver Linden)

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

- CONSERVATION -

Silver Linden 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"

Ulmus pumila (Siberian Elm)

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

- CONSERVATION -

Siberian Elm 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"

Zelkova serrata (Japanese Zelkova)

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

- CONSERVATION -

Japanese Zelkova 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"

You're Invited!

ANNUAL OPEN HOUSE

*Plan to attend our nursery Open House on Wednesday, August 19, 2009.
Join us for a fun day of field tours followed by a casual dinner buffet with your Carlton friends.
Dinner starts at 5:30 p.m. Please R.S.V.P. by August 1st.*

2009 FAR WEST TRADE SHOW | 20ST-22RD OF AUGUST



Directions

Carlton Plants is located in the middle of the fertile Willamette Valley, 35 miles southwest of Portland on Oregon Highway 221, five miles south of Dayton.

Visitors are always welcome at the nursery. Advance notice is appreciated, when possible. Office hours are from 7:30 am to 4:00 pm, Monday through Friday.

DOWNLOAD A MAP TO CALTON PLANTS AT:
WWW.CARLTONPLANTS.COM

Photos courtesy of Mike Sullivan.

Our People



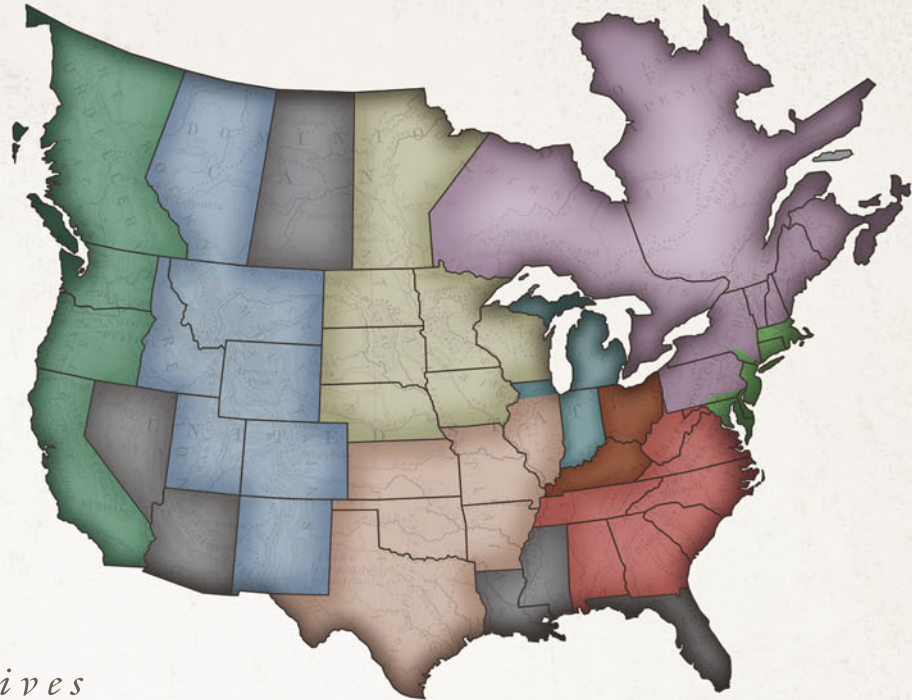
The quality of our products reflects the quality of our people.



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At Carlton, we're as committed to customer service as we are to top-quality stock. That's why we have four in-house salespeople to keep you current on inventory, shipping and

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quality
PERFORMANCE Value
innovation



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