

Chautauqua County Soil and Water Conservation District



2019 Tree and Shrub Sale



FRUIT/BERRY PACKAGES :
DEADLINE MARCH 8th

ALL OTHER ITEMS :
DEADLINE APRIL 1st

**Northcrest Business Park
220 Fluvanna Ave, Suite 600
Jamestown, NY 14701
Phone 716-664-2351 Ext 5
Fax 855-401-1960
Email: chaut-co@soilwater.org
Website: www.soilwater.org**

DISCLAIMER: We strive to purchase the highest quality plant material, refunds will only be given if we experience a problem with an entire plant species. Otherwise refunds will not be available.

Tree & Shrub Sale—General Information

Plant Stock Description: All stock is bare-root. Your plants will be bundled with newspaper around the roots to keep them moist. Average height of plant stock at time of pick-up can be found in the item descriptions.

Ordering Information: [Orders are filled on a "First Come, First Served" basis.](#) Since all trees are pre-ordered, each species is available while quantities last. **The District reserves the right to make substitutions** with similar species and/or issue refunds, should order quantities exceed the number available due to circumstances beyond our control. No refunds will be given for trees not picked up after 7 days past the effective pick-up date. All orders must be prepaid. No cash will be accepted. Checks or money orders should be made out to "CHAUT. CO. SWCD".
[A fee of \\$50 will be assessed for any returned checks.](#)

Species Selection: Choose your species carefully using the information provided. If you should have any questions, we will be glad to assist you in your selections. The District cannot be responsible for the success or failure of your plantings.

Pick-Up Day: You will be notified by First Class mail for the address and time to pick up your trees. There will be two (2) pick-up days at the Ag Center on Turner Road in Jamestown.

Care of Your Seedlings: Poor survival can be attributed to poor handling, planting or care. Immediately check seedlings to see if they have dried out. Keep *moist*, not wet at all times. Keep in a cool, shaded, humid place until planting. **[Plant seedlings as soon as possible!](#)**

What is a “bare-root” seedling or transplant? All stock is bare root, meaning the plant is harvested with little or no soil attached to the roots. Seedlings are smaller than transplants, less expensive and a better choice for large plantings. They are easier to plant due to their size. Transplants are seedlings that were moved to a transplant bed for a year, are a little bit taller and much sturdier. Planting requires a little more effort due to their more established root system. Transplants are available for some conifer species, but make sure to read the full item description to be sure.

Why is the sale only in the spring? Due to our stock being bare-root, the plants must be harvested and replanted while in a dormant state and while soil conditions are still moist. We suggest you plant the trees **[as soon as possible](#)** after picking up your order, as we cannot be responsible for the success or failure of your plantings.

How do I plant a bare-root seedling or transplant? For instructions on how to plant seedlings, please refer to page 36 of the catalog. If you need any more information about your plants, feel free to call the District office and the staff will be happy to help you answer questions.

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Note: All of our plants are bare root. The seedlings are usually smaller than Transplants depending on species and/or nursery availability.

Seedlings are started from seed and grown for 1 or 2 seasons.

Transplants are seedlings that have been transplanted to a different bed at the nursery and grown for an additional 1 or 2 seasons. Transplants have a larger root mass, larger stem, and are more branched out and are more hardy for replanting.

Fir Species

Native to NY
Native to Chautauqua County

BALSAM FIR (*Abies balsamea*) TRANS-PLANTS, dark green needles are ½ to 1 inch long, flattened, mostly 2-ranked (one row on each side of the branch). Tree is shade tolerant, slow to fast growing, and relatively short lived (80+ years). It has a tight, spire-like form, exceptional fragrance and long needle retention. It grows up to 60 feet in height, with a trunk diameter of 2 feet. Average years to 8' height, 8 - 12 years. Grows in well drained to somewhat poorly drained soils. A valuable pulpwood species and is desirable for Christmas trees and ornamental plantings. Deer and mice browse foliage in the winter; deer also will use this tree for winter cover and shelter.



TBF 10 plants for \$25.00
25 plants for \$53.00
50 plants for \$95.00
100 plants for \$175.00

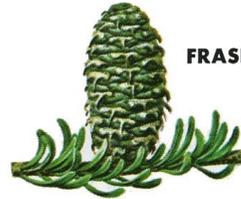
CONCOLOR FIR (*Abies concolor*), is also known as white fir. Needles are flat, plump, blunt, pointed and 1 - 3 inches long, silvery green with a blue tint underneath. Will reach 75 feet in height. Average years to 8' height, 10 - 14 years. Tolerates dry, coarse soils, and shade, but prefers well drained soils. Excellent for ornamental, windbreaks, and Christmas trees (as it holds needles very well).

CF 10 plants for \$12.50
25 plants for \$28.00
50 plants for \$50.00
100 plants for \$87.50



FRASER FIR (*Abies fraseri*) TRANSPLANTS, are very similar to balsam fir, the minor differences being confined mostly to the cones. Scales on the cones are wider than long, usually about twice as wide as long, while the cone scales of Balsam Fir are generally about twice as long as they are wide. Average years to 8' height, 8 - 12 years. Prefers well drained soils. Good for ornamentals, windbreaks, and Christmas trees. The Fraser fir will hold its needles much longer than Balsam fir when used for Christmas trees.

TFF 10 plants for \$30.00
 25 plants for \$63.00
 50 plants for \$120.00
 100 plants for \$225.00



FRASER FIR



Pine Species

Native to NY
 Native to Chautauqua County

EASTERN WHITE PINE (*Pinus strobus*) TRANSPLANTS, Needles are soft bluish-green, flexible, 3-5 inches long, in bundles of 5. Tree is moderately shade tolerant, very fast growing, and long-lived. Commonly attains 100 feet in height and 4 feet in diameter, with a tall, straight stem and pyramidal crown. Grows best in well drained soils. High economic value for both timber and ornamental purposes. A large part of the winter diet of red squirrels is made up of its seeds. To reduce potential insect problems, white pine should not be planted near Norway spruce.



75-100 ft.



EASTERN WHITE PINE

TWP

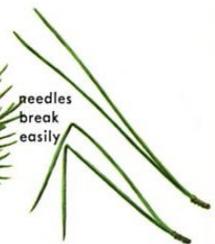
10 plants for \$25.00
 25 plants for \$53.00
 50 plants for \$95.00
 100 plants for \$175.00

Native to NY

RED PINE (*Pinus resinosa*), needles are soft, slender, flexible, lustrous, dark green, 5-6 inches long, and in 2-leaved clusters. Tree is shade intolerant, very fast growing (one branch whorl per year), and long-lived. Usually grows to 70-80 feet in height with a trunk 2-3 feet in diameter. Average years to 8' height, 5 - 7 years. Has a tall, straight trunk and a symmetrical crown. Its lumber can be used for construction, poles, posts, pulpwood and fuel.



50-100 ft.



needles break easily

RED PINE

RP

10 plants for \$12.50
 25 plants for \$28.00
 50 plants for \$50.00
 100 plants for \$87.50

SCOTCH PINE (*Pinus sylvestris*), Needles are 1½ - 3½ inches long in clusters of two, dull blue-green in color. Tree is shade intolerant, very fast growing, very cold hardy, and moderately long-lived. May reach 60 feet in height. Average years to 8' height, 5 - 8 years. Will tolerate somewhat poorly drained soils. Is one of the most important commercial species in Europe; in US, it is used extensively for Christmas trees, ornamental plantings and pulpwood. Food source for porcupines and grosbeaks.



SCOTCH PINE



- SP** 10 plants for \$12.50
 25 plants for \$28.00
 50 plants for \$50.00
 100 plants for \$87.50

Spruce Species

COLORADO BLUE SPRUCE (*Picea pungens*), our most popular conifer. Needles are ½ - ¾ inch long, stiff with sharp points, color varies from green to blue-green to silver blue. May reach 75 feet in height with a perfect pyramid in shape, dense crown. Average years to 8' height, 8 - 12 years. Grows best in well drained soils. Not used for timber, but used for ornamental, windbreaks, and Christmas trees. To reduce potential insect problems, do not plant near Douglas Fir, but it is okay to plant with White Pine and other spruces.

- BS** 10 plants for \$12.50
 25 plants for \$28.00
 50 plants for \$50.00
 100 plants for \$87.50



80-100 ft.

BLUE SPRUCE

COLORADO BLUE SPRUCE (*Picea pungens*) TRANSPLANTS, Bare root plants that have been transplanted twice and are well supplied with abundance of roots,

- TBS** 10 plants for \$25.00
 25 plants for \$53.00
 50 plants for \$95.00
 100 plants for \$175.00

NORWAY SPRUCE (*Picea abies*), needles are ½ - ¾ inch long, shiny dark green in color. Fast growing, moderately shade tolerant, long-lived species. Will reach 75 feet in height with distinctive sweeping branches. Average years to 8' height, 8 - 12 years. Will tolerate somewhat poorly drained soils, but grows best on moist, but well drained sites. Extensively planted as an ornamental, it is also good for pulpwood, windbreaks, snow fence and wildlife. To reduce potential insect problems, Norway spruce should not be planted near White Pine or Douglas-fir.

- NS** 10 plants for \$12.50
 25 plants for \$28.00
 50 plants for \$50.00
 100 plants for \$87.50



NORWAY SPRUCE (*Picea abies*) TRANSPLANTS, Bare root plants that have been transplanted twice and are well supplied with abundance of roots.

- TNS** 10 plants for \$25.00
 25 plants for \$53.00
 50 plants for \$95.00
 100 plants for \$175.00

Note: All of our plants are bare root. The seedlings are usually smaller than Transplants depending on species and/or nursery availability.

Seedlings are started from seed and grown for 1 or 2 seasons.

Transplants are seedlings that have been transplanted to a different bed at the nursery and grown for an additional 1 or 2 seasons. Transplants have a larger root mass, larger stem, and are more branched out and are more hardy for replanting.

Native to NY

WHITE SPRUCE (*Picea glauca*)
TRANSPLANTS, needles are $\frac{3}{4}$ - 1 inch long, and bluish in color. Cones fall soon after they ripen in autumn, rarely persisting through the winter. Shade tolerant, fast growing, relatively long-lived species. The tree grows 60 - 70 feet tall with trunk diameter of 2 feet. Average years to 8' height, 8 - 12 years. Tolerates wetter soils. Most important commercial tree in Canada; can be used for pulpwood, lumber, windbreaks, ornamentals, hedges and Christmas trees.

TWS 10 plants for \$25.00
 25 plants for \$53.00
 50 plants for \$95.00
 100 plants for \$175.00



Other Conifer Species

Native to NY
 Native to Chautauqua County

EASTERN HEMLOCK (*Tsuga canadensis*) **TRANSPLANT**, needles are $\frac{1}{2}$ - 1 inch long. Cones are roughly oval and usually remain on the tree until the following spring. Remarkably shade tolerant and may remain in the understory in natural stands for 25 - 200 years. The tree grows 60 - 70 feet high with a trunk diameter of 2 - 3 feet. Grows in cool moist soils to well drained. Ends of branches are often drooping and "feathery". The wood is light, soft, brittle, and difficult to work, used occasionally for rough or construction lumber and for pulpwood. Good for hedges and windbreaks.



HM 10 plants for \$30.00
 25 plants for \$63.00
 50 plants for \$120.00
 100 plants for \$225.00

Native to NY

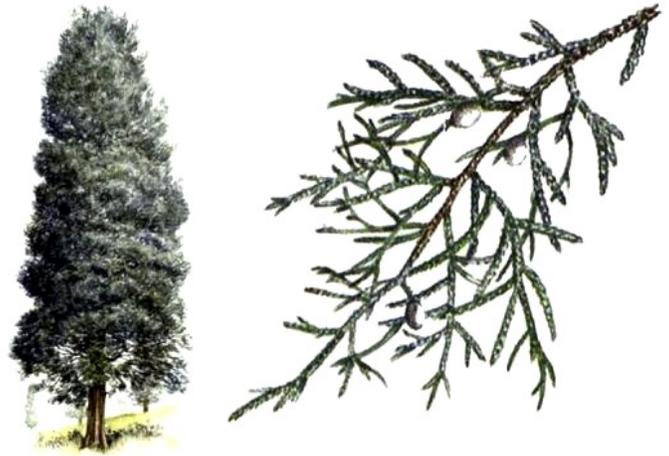
EASTERN LARCH (*Larix laricina*), also known as tamarack, a conifer that drops their needles in autumn, renewing them each spring. In season, numerous soft needles, ¾" - 1" long, are clustered at the end of conspicuous warty "spurs" on the twigs. Will grow to a height of 30 - 90' tall with a pointed top, broadly pyramidal. Will grow well in wet soils and swamps. Planted for pulpwood, posts, and wildlife. Seeds, needles, or inner bark eaten by ruffed grouse, snowshoe hare, red squirrels, porcupines and deer.



- EL 10 plants for \$30.00
- 25 plants for \$63.00
- 50 plants for \$120.00
- 100 plants for \$225.00

Native to NY

EASTERN REDCEDAR (*Juniperus virginiana*) TRANSPLANTS, leaves are scaly needles, that overlap each other with a sharply pointed tip. Pyramidal shape, shade intolerant, and slow growing. Small to medium-sized, 40-50' tall and 1-2' in diameter. Common in poorly drained soils, but prefers dry. Produces what appears to be blue berries, but are actually cones. Many bird species spread seed by ingesting these cones.



- TRC 10 plants for \$20.00
- 25 plants for \$43.00
- 50 plants for \$80.00
- 100 plants for \$140.00

Native to NY

NORTHERN WHITE CEDAR (*Thuja occidentalis*) TRANSPLANTS, also called Arborvitae (meaning "Tree of Life"). The flattened branchlets form horizontal fan-like sprays. Foliage has a spicy fragrance when crushed. Can grow to 40 - 50 feet in height. Average years to 8' height, 12 - 15 years. Wood is light, soft, durable, brittle, coarse-grained, and fragrant. It is used for posts, rails, shingles, and pulpwood. Good for hedges and wind breaks. A favorite source of browse for deer and rabbits.



- TWC 10 plants for \$25.00
- 25 plants for \$53.00
- 50 plants for \$95.00
- 100 plants for \$175.00

Nut Producing Hardwoods

Native to NY
Native to Chautauqua County

AMERICAN HAZELNUT (*Corylus americana*), also called filbert. Leaves are somewhat heart shaped and double-toothed. Flowers in April - May. Can reach a height of 10 - 15 feet. Nuts are edible enclosed in thin flattened husks. Anyone who has tried to collect these nuts in late summer has found that he is not alone in appreciation of them. Squirrels chipmunks, Blue jays, deer, grouse, quail and pheasant usually get there first.

- FI** 10 plants for \$12.50
25 plants for \$28.00
50 plants for \$50.00
100 plants for \$87.50



Native to NY
Native to Chautauqua County

BLACK WALNUT (*Juglans nigra*), is deciduous with leaves turning bright, clear yellow in autumn. Fast growing, and can reach 100 feet in height and 2 -3 feet in diameter. Develops best on deep, well-drained soils and thrives in well-drained bottom lands. The fruit, borne singly or in pairs with a thick yellow-green fibrous husk. The nutmeats are sweet and edible and are a favorite food for red and gray squirrels. Wood is strong, durable, dark and used for gunstocks, furniture and veneer. Produces allelopathic compound, "juglone", that can inhibit the growth of some plants.



- BW** 10 plants for \$15.00
25 plants for \$33.00
50 plants for \$60.00
100 plants for \$105.00

CHINESE CHESTNUT (*Castanea mollissima*), resistant to the chestnut blight disease. Deciduous, with leaves that are long and narrow with slender pointed teeth. Can reach 60 feet in height. Tolerates a wide range of soil conditions. Spiky clusters with sharp spines protect the nut. Nuts are very popular with wildlife and humans. Plant at least two trees for pollination.

- CC** 10 plants for \$17.50
25 plants for \$38.00
50 plants for \$70.00
100 plants for \$122.50



NORTHERN PECAN (*Carya illinoensis*), is the largest of the hickories and can reach a height of 150 feet. Prefers well drained soil, but will grow in somewhat poorly drained soils. The nuts are edible, with a rich buttery flavor, and can be eaten fresh or used for cooking. Nuts are favored by deer, squirrels, turkey, Blue Jays and several other bird species. Wood is used in making furniture and flooring. Makes good shade trees. Generally 2 or more trees must be present to pollinate each other.



- NP 10 plants for \$12.50
- 25 plants for \$28.00
- 50 plants for \$50.00
- 100 plants for \$87.50

Native to NY
Native to Chautauqua County

NORTHERN RED OAK (*Quercus rubra*), leaves turn red before falling in the autumn. Intermediate shade tolerance and moderately fast growing. Can reach 60 to 80 feet in height. Grown on a wide variety of soils, best on silt or sandy loams. Often planted as ornamental or shade trees. The hardness and resistance to wear, plus its beauty, make it preferred for flooring for residences. Wood is used for furniture, lumber, and trim.



50-70 ft.

NORTHERN RED OAK

- RO 10 plants for \$15.00
- 25 plants for \$33.00
- 50 plants for \$60.00
- 100 plants for \$105.00

Native to NY

PIN OAK (*Quercus palustris*), takes its name from the many short, pin-like twigs that clutter the horizontal or downward-sloping branches, making identification easy in winter. A shade intolerant species, it is moderately fast growing. Can reach 60 to 70 feet tall with a pyramidal shape. Tolerates clayey soils that flood in the spring and are dry in the summer. Wood is knotty and not economically valued, but waterfowl and wildlife utilize acorns.



- PO 10 plants for \$17.50
- 25 plants for \$38.00
- 50 plants for \$70.00
- 100 plants for \$122.50

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SAWTOOTH OAK (*Quercus acutissima*), native to Asia. Develops a very broad crown and may reach 50 -70 feet in height. Will tolerate somewhat poorly drained soils. Starts to produce acorns at 8 - 10 years of age (vs. 20 - 30 years for some other oak species). Similar aesthetic and lumber values as other white oaks. Also good for screens and windbreaks.



- SO** 10 plants for \$15.00
- 25 plants for \$33.00
- 50 plants for \$60.00
- 100 plants for \$105.00

Native to NY
Native to Chautauqua County

SWAMP WHITE OAK (*Quercus bicolor*), fast-growing oak that can reach heights of 40 to 60 feet. Forms by a single trunk, with crooked lower branches that can lead to a messy appearance. Prefers moist soils and is found along river bottoms and wetland edges. The acorns grow in pairs, and sprout soon after they fall from the tree in late summer. Also called bicolor oak, which refers to its distinctly different upper and lower leaf surfaces. Good landscaping plant with hard, durable wood used in making furniture.



- SWO** 10 plants for \$15.00
- 25 plants for \$33.00
- 50 plants for \$60.00
- 100 plants for \$105.00

Native to NY
Native to Chautauqua County

WHITE OAK (*Quercus alba*), shade tolerant when young, fairly slow growing and long-lived. Reaches 80 to 100 feet in height. In the open, white oak develops a rounded spreading crown. Growth is good on all but the driest shallow soils, but is best on deep, well- drained loamy soils. Made into lumber for flooring, furniture, tight cooperage, millwork, timbers, handles, boxes and crates. Perhaps the largest amounts go into high-quality flooring, barrels, kegs and caskets.



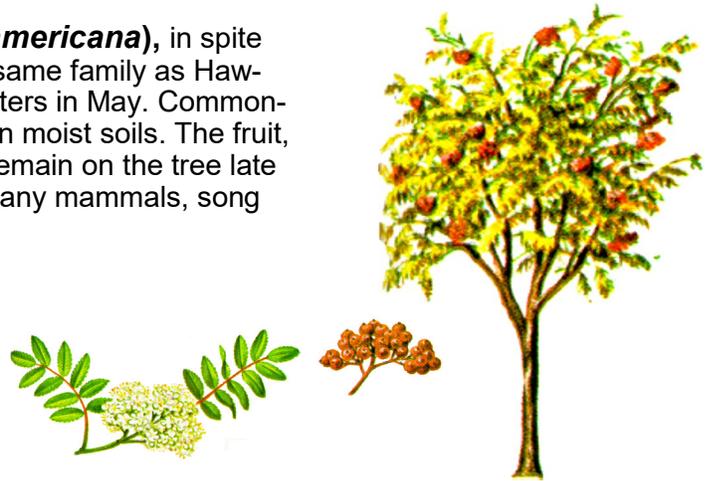
- WO** 10 plants for \$15.00
- 25 plants for \$33.00
- 50 plants for \$60.00
- 100 plants for \$105.00

Hardwoods & Other Favorites

Native to NY
Native to Chautauqua County

AMERICAN MOUNTAIN-ASH (*Sorbus americana*), in spite of its name, is not actually an ash, but in the same family as Hawthorns and Apples. Flowers grow in thick clusters in May. Commonly reaches a height of about 25 feet. Thrives in moist soils. The fruit, a bright orange-red, mature in fall and often remain on the tree late in the winter. Fleshy red fruits are eaten by many mammals, song and game birds, including grouse and turkey.

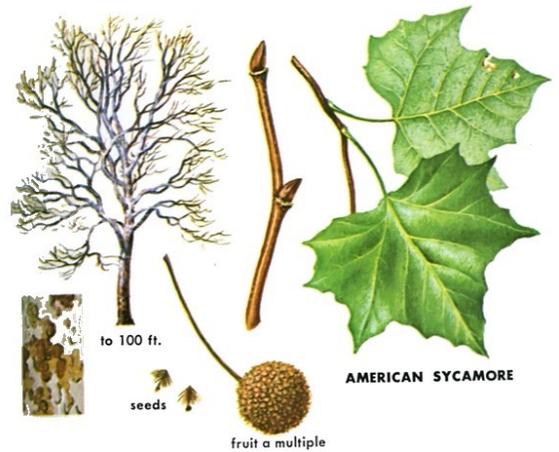
AMA 10 plants for \$15.00
25 plants for \$33.00
50 plants for \$60.00
100 plants for \$105.00



Native to NY
Native to Chautauqua County

AMERICAN SYCAMORE (*Platanus occidentalis*), characterized by bark which peels off in large brown sheets, revealing the cream-colored fresh bark beneath and giving the bark an attractive mottled appearance. Long-lived and fast growing, attains a height of 100 feet and a diameter of 3 feet with a wide-spreading crown. Prefers moist soil, and will grow on poorly drained sites. Wood is hard, yellowish to brown, coarse-grained and used for furniture, boxes and wooden ware.

SY 10 plants for \$15.00
25 plants for \$33.00
50 plants for \$60.00
100 plants for \$105.00



Native to NY
Native to Chautauqua County

BLACK CHERRY (*Prunus serotina*), the largest of the native cherries of the United States and the only one of commercial value. White flowers bloom when the leaves are about half grown. As the fruit develops the berries reach full size (1/2-inch diameter). Cherries are dark red when they are fully developed, turning black with dark purple flesh as they ripen. Reaches 60 feet (sometimes more) in height and 3 feet or more in diameter. Grows on all kinds of sites except those that are very swampy or extremely dry. Is of value for lumber and food for wildlife. Wood is hard and close-grained, used for furniture and interior finishing. A great number of songbirds, grouse, pheasant, raccoon, black bear, red fox, deer, rabbit and squirrel regularly consume the fruits.



BC 10 plants for \$15.00
25 plants for \$33.00
50 plants for \$60.00
100 plants for \$105.00

BLACK TUPELO (*Nyssa sylvatica*), medium-sized, deciduous tree. Leaves turn purple in autumn, eventually becoming an intense bright scarlet. Shade tolerant, and slow growing. Can reach heights of around 65 to 80 feet. Found in swamps and bottom lands, but also will grow on well drained sites. Planted for an ornamental as well as for wildlife purposes. An important food source for many migrating birds in the fall. It's early color change is thought to attract birds to the available fruit, which ripen before many other fall fruits and berries.



- BT** 10 plants for \$17.50
25 plants for \$38.00
50 plants for \$70.00
100 plants for \$122.50

COMMON PERSIMMON (*Diospyros virginiana*), shade tolerant, slow growing (can live in understory for many years), and long-lived. Reaches 30 to 40 feet in height. A small to medium tree with a dense cylindrical crown. Grows in a wide variety of soils including river valleys and dry upland sites. Known for its large edible fruit, which ripens in fall and is a source for mammals and birds. Excellent tree for deer forage. Ripe fruit tastes like dates, and can be used in puddings, cakes and bread. Wood is used for billiard cues and golf club heads.



- CP** 10 plants for \$12.50
25 plants for \$28.00
50 plants for \$50.00
100 plants for \$87.50

GINGKO (*Ginkgo biloba*), considered a “living fossil”, has been found in fossils from as far back as 270 million years ago. Easily grown in average, medium moisture soil in full sun. Tolerant of a wide range of soil conditions, including alkaline, acidic or compacted soils. Also tolerant of saline conditions, air pollution and heat. Adapts well to most urban environments. Grows to heights of 50 - 80 feet. Leaves are fan-shaped, rich green colored and turn bright yellow in fall. Has irregular form, long and short branches grow at nearly right angles. Originated in China and has a history of being used for medicinal purposes.



- GO** 10 plants for \$25.00
25 plants for \$53.00
50 plants for \$95.00
100 plants for \$175.00

Native to NY
Native to Chautauqua County

PAW PAW (*Asimina triloba*), an unusual tree with large leaves and tiny banana-shaped fruit. Shade tolerant, grows in moist soils on floodplains. Can live 100 to 150 years. Reaches 20 to 30 feet in height. An understory tree with straight branches and a broad crown. Found in the southern half of New York, where it is at its northernmost range. Produces a green berry-like fruit that turns yellow to brown or black at maturity with a soft edible flesh, prune like texture and fruity custard flavor. Fruit was eaten by American Indians and early settlers.



- PW** 10 plants for \$20.00
25 plants for \$43.00
50 plants for \$80.00
100 plants for \$140.00

Native to NY
Native to Chautauqua County

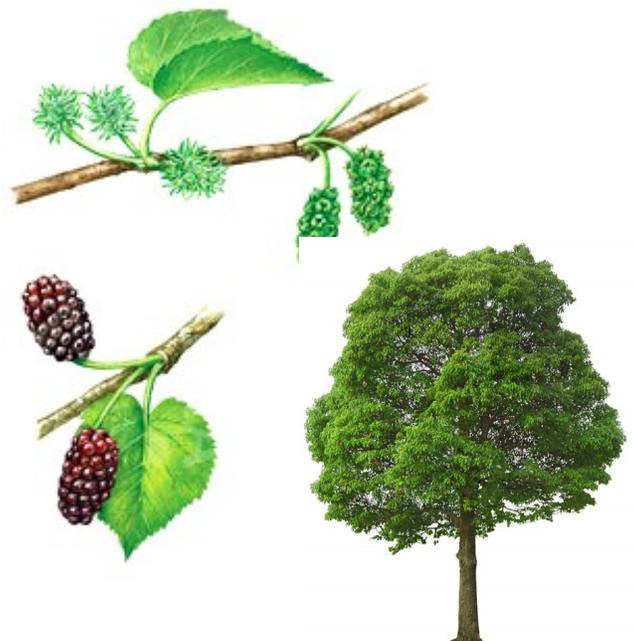
RED MAPLE (*Acer rubrum*), a “soft maple”. Shade tolerant to intermediate, fast growing, and a moderate life span. Commonly grows 75 to 90 feet tall with diameters of 1½ to 2½ feet. Tolerates wet, swampy soils, but grows best on fertile, well drained loam. Planted for ornamental, wildlife, but varies in economic value for timber products. The buds and samaras (seeds) are a primary food source for gray squirrels in late winter and early spring. Sprouts are a favorite deer browse.



- RM** 10 plants for \$15.00
25 plants for \$33.00
50 plants for \$60.00
100 plants for \$105.00

Native to NY

RED MULBERRY (*Morus rubra*), a medium sized tree with wide spreading branches and a wide rounded shape. Grows best on moist, well-drained soils in full sun to part shade. Can get to a height of 40-60'. Fruits are sweet and juicy and may be eaten off the tree, used for jellies, jams and wines. Not commercially sold because they have very short “shelf lives”. Fruits are also very attractive to birds.



- RMB** 10 plants for \$15.00
25 plants for \$33.00
50 plants for \$60.00
100 plants for \$105.00

Native to NY
Native to Chautauqua County

SUGAR MAPLE (*Acer saccharum*), “saccharum” referring to sugar for sap. One of the largest and most important hardwoods of eastern forests. Leaves are exceptionally colorful with brilliant reds and yellows in fall. Very shade tolerant, slow growing, and long lived (to 400 years). Grows 75 to 100 feet in height with a trunk diameter of 3 to 4 feet. Grows best on fertile, well drained to somewhat poorly drained soils. Used for flooring, lumber, pulpwood and fuel, as well as ornamental (an excellent shade tree) and maple syrup production. Roughly 34 gallons of sap yields 1 gallon of syrup which yields 8 lbs. of sugar.



75-100 ft.

- SM**
- 10 plants for \$15.00
 - 25 plants for \$33.00
 - 50 plants for \$60.00
 - 100 plants for \$105.00

Native to NY

WHITE BIRCH (*Betula papyrifera*), very attractive golden fall foliage. Shade intolerant, fast growing and short lived (75-125 years). Rarely attains heights above 20 - 30 feet and trunk diameters more than 18 inches. Can tolerate poor soils. The wood is light, soft and not strong. Used for pulpwood, fuel, plywood and wildlife. Provides browse and cover for deer. Very attractive in “clumps”; plant 3 together to form a clump.



- WB**
- 10 plants for \$15.00
 - 25 plants for \$33.00
 - 50 plants for \$60.00
 - 100 plants for \$105.00

Shrubs

Native to NY
Native to Chautauqua County

AMERICAN CRANBERRY (*Viburnum opulus var. americanum*), tall shrub that produces clusters of white flowers that bloom in May. Will grow in full sun or partial shade. Reaches 15 to 20 feet. Grows best in well drained, moist soil, but can be grown in swamps, thickets and marshes. Berries are red in color and tart (appearing September to November) and a favorite of the ruffed grouse, pheasant and several songbirds.

- AC**
- 10 plants for \$20.00
 - 25 plants for \$43.00
 - 50 plants for \$80.00
 - 100 plants for \$140.00



Native to NY
Native to Chautauqua County

BLACK CHOKEBERRY (*Aronia melanocarpa*), deep glossy green leaves with pea size fruit that ripens to purplish-black color in late summer. Grows well in full sunlight, but is moderately tolerant of shade. Deciduous shrub 6 to 10 feet tall. Does best in well drained soil. Flowers provide nectar to hummingbirds & butterflies. Fruits eaten by ruffed grouse, pheasant and song birds.



BCB 10 plants for \$15.00
25 plants for \$33.00
50 plants for \$60.00
100 plants for \$105.00

BUTTERFLY BUSH (*Buddleia davidi*), attracts butterflies and will have fragrant flowers July through the fall. A prolific, late blooming plant, it will need winter wind protection. If they do suffer winter kill, cut them back to the ground and the roots will usually survive. Tolerates most soils.



BFB 10 plants for \$15.00
25 plants for \$33.00
50 plants for \$60.00
100 plants for \$105.00

Native to NY
Native to Chautauqua County

BUTTONBUSH (*Cephalanthus occidentalis*), great for wet areas. Will grow 3 to 6 feet tall, rarely growing to tree size. Blooms in late summer. The many-flowered cylindrical stalks of white blossoms are up to 20" long. Fruit husks are smooth. Browsed by deer.



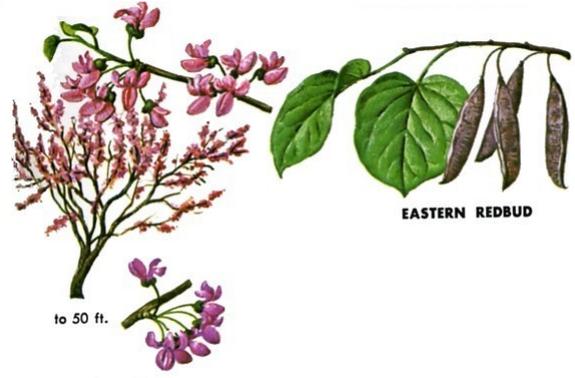
BUB 10 plants for \$15.00
25 plants for \$33.00
50 plants for \$60.00
100 plants for \$105.00

COMMON LILAC (*Syringa vulgaris*), best known of all Lilacs in the U.S. Leaves are somewhat heart-shaped and smooth, and flowers are fragrant and purple-colored. Prefer full sun, but can tolerate partial shade. Can reach heights of 15 feet. Prefers good drainage.



LL 10 plants for \$12.50
25 plants for \$28.00
50 plants for \$50.00
100 plants for \$87.50

EASTERN RED BUD (*Cercis canadensis*), once seen in bloom on a lawn, will always be recalled with delight. Hardy and colorful. In early spring the tree is a mass of lavender, begin blooming when very young. Thin heart-shaped leaves turn bright yellow in fall. Shade tolerant and can reach 20 to 30' in height. Thrives in many soil types. They are hardy and colorful. The wood is of no commercial value, but these small trees are favorite ornamentals.



- RB** 10 plants for \$17.50
- 25 plants for \$38.00
- 50 plants for \$70.00
- 100 plants for \$122.50

Native to NY
Native to Chautauqua County

ELDERBERRY (*Sambucus nigra spp. canadensis*), has bright-green compound leaves, white flowers in June and July, and purple berries from August to October. Produces fruit in 4 to 5 years; matures in 7 to 8 years. Fairly drought tolerant, prefers full to partial sun. . A spreading shrub that grows to a height of 12 feet. Tolerates somewhat poorly drained soils. Some of its uses are shelterbelts, ornamental and wildlife. Provides food for wild turkey, squirrel, game, and songbirds.



- EB** 10 plants for \$15.00
- 25 plants for \$33.00
- 50 plants for \$60.00
- 100 plants for \$105.00

FORSYTHIA (*Forsythia x intermedia*), especially prized for its golden flowers that bloom before the first green leaf appears. Early blooming, full sun needed for maximum flowering. Very hardy, can grow 8 to 10 feet in height, an upright and wide shrub. Planted along borders, or as living fence.



- FO** 10 plants for \$17.50
- 25 plants for \$38.00
- 50 plants for \$70.00
- 100 plants for \$122.50

Native to NY
Native to Chautauqua County

NINEBARK (*Physocarpus opulifolius*), named for the exfoliating nature of the bark, which has the appearance of multiple layers of bark with reddish-brown hues. Produces pink-hued white flowers in late spring, with red capsules developing in the summer. Flowers benefit pollinators, and fruit provide a food source for birds. Foliage will turn yellow in the fall. Will grow to 8' in height, with a 6' wide spread. Will tolerate both wet and dry soils, and full sun to partial shade. Planted for windbreaks, erosion control and wildlife.

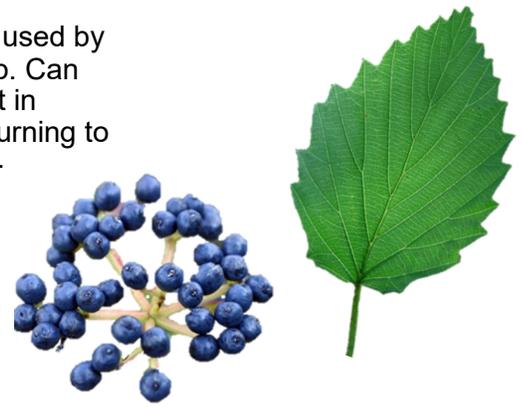


- NB** 10 plants for \$15.00
- 25 plants for \$33.00
- 50 plants for \$60.00
- 100 plants for \$105.00

Native to NY

NORTHERN ARROWWOOD (*Viburnum dentatum*), used by Native Americans for arrows. Multi-stemmed rounded shrub. Can tolerate full sun to partial shade. Will grow up to 6 to 10 feet in height. Produces creamy white flowers from May to June, turning to a blue-black fruit that is attractive to birds. Planted for wind-breaks and wildlife.

- NA** 10 plants for \$17.50
- 25 plants for \$38.00
- 50 plants for \$70.00
- 100 plants for \$122.50



Native to NY
Native to Chautauqua County

PUSSY WILLOW (*Salix discolor*), offers a first, important source of pollen and nectar in very early springtime. Fast growing, multi-stemmed spreading shrub. Grow in average, medium to wet, well-drained soils in full sun to part shade. Will grow up to 15 to 20 feet in height. Produces silver, velvety upright catkins on leafless stems late in winter that are reminiscent of tiny cat feet. Catkins appear long before the leaves, and are one of the earliest signs of spring.

- PS** 10 plants for \$15.00
- 25 plants for \$33.00
- 50 plants for \$60.00
- 100 plants for \$105.00



Native to NY
Native to Chautauqua County

RED OSIER DOGWOOD (*Cornus serocea*), multi-stemmed, upright shrub. Will reach heights of 7 to 9 feet. Prefers moist to poorly drained soil. Clusters of white flowers in the spring, white drupe fruit in August and loads of lush green leaves in the summer. In the winter when you expect a drab yard, they put on a fiery show of color with their bright red stems contrasting against the snow. Can be trimmed for a nice hedge or for wildlife. Provides good cover and browse for the whitetail deer.



RED-OSIER DOGWOOD

- ROD** 10 plants for \$12.50
- 25 plants for \$28.00
- 50 plants for \$50.00
- 100 plants for \$87.50

ROSE OF SHARON (*Hibiscus syriacus*), deciduous shrub or small tree. Easily grown, abundance of colorful flowers. Can tolerate full sun to partial shade. Will grow in dry to wet soils, but prefers well-drained soils. Planted for ornamental and wildlife. Flowers are produced on new growth so prune in late winter, if you wish to control size. Pruning is not necessary for flower production. Flowers attract hummingbirds and butterflies.

- ROS** 10 plants for \$15.00
- 25 plants for \$33.00
- 50 plants for \$60.00
- 100 plants for \$105.00



Native to NY
Native to Chautauqua County

SERVICEBERRY (*Amelanchier arborea*), upright, tight multi-stemmed shrub. Has bright green or bluish green leaves turn stunning shades of red and orange in fall. Prefers full sun to partial shade. Can reach heights of 8 to 20 feet. Thrives in moist, well drained, acid soils. In spring, produces white flowers, which develop into tasty purple berries that attract birds in early summer. Berries can be harvested and used to make jams, jellies, and pies.

- SB** 10 plants for \$12.50
- 25 plants for \$28.00
- 50 plants for \$50.00
- 100 plants for \$87.50



Native to NY
Native to Chautauqua County

SPICEBUSH (*Lindera benzoin*), broad, multi-stemmed flowering shrub that produces fragrant yellow-green flowers in early spring. Birds feed on the small, red fruits. Its twigs and branchlets, when scraped, emit a spicy fragrance. Grows in partial sun to shade, and wet to moderately dry soil. Can grow up to 12' tall and 15' wide. An excellent choice for butterfly gardens, as it is the preferred food for the black and blue spicebush swallowtail butterfly larvae.

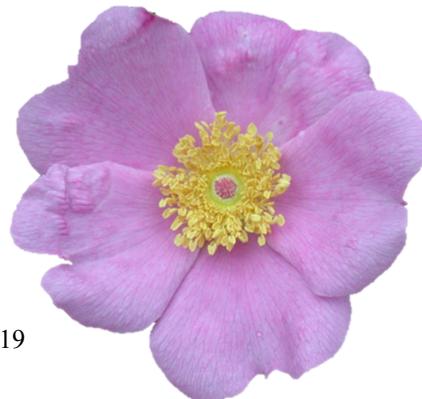
- SC** 10 plants for \$12.50
- 25 plants for \$28.00
- 50 plants for \$50.00
- 100 plants for \$87.50



Native to NY
Native to Chautauqua County

SWAMP ROSE (*Rosa palustris*), a multi-branched, perennial shrub, up to 7 feet tall. Occurs along stream banks, in swamps and marshes. Grows best in slightly acidic, wet to moist soils in partial shade or full sunlight. Extremely fragrant and the pink blooms last for six to eight weeks in midseason, generally June through July. The fruit (rose hip) is red and fleshy on the outside with a mass of seeds inside the rose hip. The rose hips are eaten and spread by birds.

- SR** 10 plants for \$17.50
- 25 plants for \$38.00
- 50 plants for \$70.00
- 100 plants for \$122.50



Native to NY
Native to Chautauqua County

WINTERBERRY (*Ilex verticillata*), a species of deciduous holly, where it typically occurs in swamps, damp thickets, low woods and along ponds and streams. Leaves are a dark green, turning to yellow in the fall, and are not a preferred source of browse. Easily grown in acidic, medium to wet soils in full sun to part shade. Can grow 5 to 15 feet tall. Attractive, bright red fruit persists through the winter and is eaten by small mammals and more than 48 bird species.



WTB 10 plants for \$30.00
25 plants for \$63.00
50 plants for \$120.00
100 plants for \$225.00

Native to NY
Native to Chautauqua County

WITCH-HAZEL (*Hamamelis virginiana*), a fall-blooming shrub or small tree, commonly found in forest margins and along streambanks. Produces fragrant yellow flowers, which form fruit throughout winter and into the following growing season. Fruits are seed capsules that split open in fall of the following year, exploding seeds up to 30'. Can grow to a height and width of 15-20'. Best flowering occurs in full sun, but will tolerate partial shade. Prefers moist, acidic, organically rich soils, but will tolerate heavy clay. Can grow to a height and width of 15-20'.



WH 10 plants for \$15.00
25 plants for \$33.00
50 plants for \$60.00
100 plants for \$105.00

Berries

Deadline for berry orders is March 8th and no excess stock will be ordered.

ALBION EVERBEARING STRAWBERRIES, known for its high yields of large to very large fruit with a high sugar content. Requires full sun. Grows upright with moderate runners reaching 2 to 3 feet. Great for preserving or serving fresh. Also resistant to verticillium wilt, phytophthora crown rot and some resistance to anthracnose crown rot makes it a good choice for organic gardens. Spacing should be 24 to 36 inches.



AEB 10 plants for \$12.50 25 plants for \$22.50
50 plants for \$30.00 100 plants for \$55.00

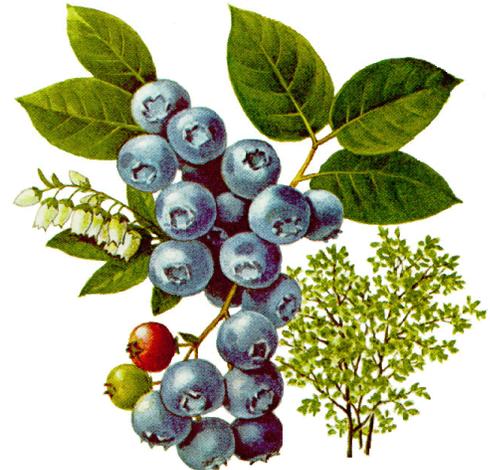
DISCLAIMER: We strive to purchase the highest quality plant material, refunds will only be given if we experience a problem with an entire plant species. Otherwise refunds will not be available.

BLACKBERRY—CHESTER, thornless variety with good resistance to cane blight. Bears large, very sweet, high-quality fruit which is excellent for fresh use, jams, jellies and baked products. Hardest and most producing of the thornless blackberries. Self-pollinating. Can be planted for production or wildlife, as they also serve as an important winter browse for deer.



BB 10 plants for \$40.00
25 plants for \$95.00
50 plants for \$185.00

BLUEBERRY, a tall shrub, that can reach heights of 8 to 12 feet. Once blueberries are established, they are one of the easiest fruit bushes to grow and produce healthy fruit for many years. May require extra care and effort by watering and mulching during the first season. This is a specifically selected mix of plants that include early, mid, and later season varieties for picking all summer long. Also provide wildlife benefits. Fruits are taken by mourning dove, ruffed grouse, pheasant, and many songbirds. Large, 3 year old bed-grown plants.



BLB 5 plants for \$49.00
10 plants for \$89.00
20 plants for \$169.00

RED RASPBERRY—CAROLINE RED (EVERBEARING), Vigorous, red, everbearing variety that is more productive than Heritage, with a rich, full, and intense raspberry flavor. Berries are medium to large in size and firm. Does not tolerate high heat and drought, but grows well throughout the country. Suitable for the home or commercial grower.



RR 10 plants for \$40.00
25 plants for \$87.50
50 plants for \$170.00

Deadline for berry orders is March 8th and no excess stock will be ordered.

Ground Covers

Native to NY
Native to Chautauqua County

BLOODROOT (*Sanguinaria canadensis*), has a smooth stalk, a solitary white flower with a golden-orange center. Grows beside a lobed basal leaf that often curls around the stalk. Grows to 10" in height in rich woodlands and along stream banks. The red juice from the underground stem was used by Native Americans as a dye for baskets, clothing and war paint.

BR 10 plants for \$12.50
25 plants for \$28.00
50 plants for \$50.00



Native to NY
Native to Chautauqua County

WILDGINGER (*Asarum canadense*), also known as Canadian snakeroot. Forms dense colonies in the understory of deciduous forest throughout its native range in eastern North America. Grows to 4–6 inches tall and has a slow to moderate growth rate. Reddish, bell-shaped flowers carried under the foliage in early spring. Dull green foliage makes for a clean attractive look. The Iroquois used the roots to treat scarlet fever, colds and headaches. An alternative food source for the pipevine swallowtail butterfly.

WG 10 plants for \$12.50
25 plants for \$28.00
50 plants for \$50.00



DISCLAIMER: We strive to purchase the highest quality plant material, refunds will only be given if we experience a problem with an entire plant species. Otherwise refunds will not be available.

Native Ferns

Native to NY
Native to Chautauqua County

CHRISTMAS FERN (*Polystichum acrostichoides*), occurs in both dry and moist wooded slopes, moist banks and ravines. Typically grows in a fountain-like clump to 2 feet tall and features evergreen (green at Christmas time as the common name suggests) fronds. Best grown in dry to medium moisture, well-drained soils in part shade to full shade. Consider planting rhizome at an angle to help combat potential crown rot problems which can occur in poorly drained soils. This fern will not spread or naturalize, however clumps will increase in size over time.

XMF 10 roots for \$20.00
25 roots for \$43.00
50 roots for \$80.00



Native to NY
Native to Chautauqua County

CINNAMON FERN (*Osmunda cinnamomea*), tall and elegant, look great during the spring and summer months thanks to their green fronds, but also in fall and winter when their upright reproductive fronds stand in the snow. Grows in clumps at heights of 2 to 3 feet, but with constant moisture can reach heights of 5 feet. Can tolerate damp soils. May colonize large areas, but spreads slowly. In early spring, new fronds ("fiddleheads") start to grow, and may be browsed by deer.

CNF 10 roots for \$20.00
25 roots for \$43.00
50 roots for \$80.00



Native to NY
Native to Chautauqua County

OSTRICH FERN (*Matteuccia struthiopteris*), large, green fronds with a vase-shaped base. This edible fern has fertile fronds that arise 6 to 12 inches in the center of the clump around midsummer, turning brown by fall. Will tolerate some sun, but will need much more moisture to keep them looking good into late summer. Plant in humus-rich, moist soil in part to full shade. Aggressive spreading plants so choose planting areas wisely. Fiddleheads are more palatable than cinnamon ferns.

OF 10 roots for \$20.00
25 roots for \$43.00
50 roots for \$80.00



Fruit Trees

Tree packages are a convenient way to get started off on the right track. Your package will include excellent varieties often overlooked by inexperienced shoppers. Packages are designed for those who cannot decide what they want, but appreciate a quality product. The Nursery selects the trees for each package. If a specific variety is desired, please call for availability. Orders of 10 or more of any one variety can be supplied if available. These trees average 6 to 7 feet in height. You will need to protect these from deer.

Apple Tree Packages, 6' - 7' height

A superior selection of commercial and home use varieties for markets, fresh eating, cooking and extended storage.

AS5—Apple Starter - 5 trees for \$85.00

Hardy, easier-to-grow varieties, such as Liberty, Gala and others. Selected for blight resistance & persistence.

AH10—Apple Homesteader - 10 trees for \$149.00

Six or more varieties, extended harvest selection, for multiple uses including varieties such as Cortland, Grimes Golden, McIntosh and others.

HA10—Heirloom Apple - 10 trees for \$169.00

Ten time-proven favorites of our selection that offer great persistence and grow well in all climates of our county, such as Northern Spy, Banana, Cox Orange Pippin, Smokehouse, Russets, Old English varieties and others.



Peach Tree Package, 3' - 5' height

Peaches deserve a place in every home orchard. They often bear the second year after planting. Our peaches are on hardy Lovell rootstock which grow to 8'-10'. These peaches are self-fertile.

Peach Primer - 5 trees

Hardy, early bearing varieties suitable for beginners. Extended season selection, such as Reliance, Contender or similar others.

PE5— 5 plants for \$89.00



Peach Production— 10 trees

Different varieties for extended season harvest. A mix of hardy fresh eating, canning and freezing varieties including a white peach.

PE10— 10 plants for \$152.00

Pear Tree Package, 6' - 7' height

Pears are a great compliment to any home orchard. Pears usually require less maintenance than other fruits as far as pruning and spraying.

Pear Primer - 5 trees

A delightful combination of hardy varieties, such as Seckle, Harrow Delight or other easy to grow trees.

PP5— 5 plants for \$89.00



Pear Production - 10 trees

Four commercial varieties for home use and market producing. Blight resistant, sure fire selections.

PP10— 10 plants for \$152.00

Fruit Cocktail Package, 3' - 5' height

A delightful mix for an instant orchard! All are hardy, self-fertile choices, consisting of one of the following: Plum, Cherry, Nectarine, Peach, and Apricot. A delightful mix for an instant orchard!

FC— 5 plants for \$95.00



Wildlife Tree Packages, 5' - 7' in height

Certain years, there are an excess of certain varieties or a tree is misshapen and not perfect enough for orchards. These plants are still very suitable to enhance or develop a wildlife area. They can provide food for deer and other animals, as well as the person who planted them. We cannot guarantee names of any specific variety on these packages.

WILDLIFE-APPLES

WPA4 4 plants for \$55.00
WPA10 10 plants for \$99.00

WILDLIFE-CHERRY (Tart)

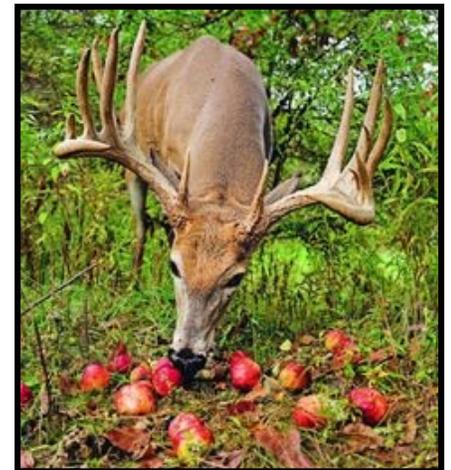
WPC4 4 plants for \$59.00
WPC10 10 plants for \$99.00

WILDLIFE-PEAR

WPP4 4 plants for \$59.00
WPP10 10 plants for \$99.00

WILDLIFE-MIXED

WPM4 4 plants for \$59.00
WPM10 10 plants for \$99.00



Deadline for fruit tree orders is March 8th and no excess stock will be ordered.

Conservation Seed Mixes

Mix Name	Seed Mix	Application	Quantity	Ordering Code	Price Per Bag
Forage 365 - year round attraction; clover stands offer high quality forage for longer periods of time than mixtures	KOPU II White Clover, Starfire Red Clover, Kenland Red Clover, Berseem Clover, Alsike Clover	Seeding Rate: 10 lbs./acre Fertilizer: 0-20-20 at 200-300 lbs./acre	10 lbs.	CS-FOR	\$50.00
Fast Cover Clover - mixed for soil conditions in our region; establishes very fast; good for remote food plots	Crimson Clover, Kenland Red Clover, Starfire Red Clover, Berseem Clover	Seeding Rate: 10 lbs./acre Fertilizer: 5-20-20 at 200-300 lbs./acre	10 lbs.	CS-FCC	\$50.00
Chicory/Clover Maxx - chicory favored highly by deer; performs excellent in most soil conditions and during drought	KOPU II White Clover, Starfire Red Clover, Kenland Red Clover, Six Point Chicory, Alsike Clover, Berseem Clover	Seeding Rate: 10 lbs./acre Fertilizer: 5-20-20 at 200-300 lbs./acre	10 lbs.	CS-CCM	\$60.00
Fall Attraction - excellent plot for archery; will stay attractive well into late gun season; high yielding (>3 tons/ac)	Crimson Clover, Purple Top Turnip, Forage Rape	Seeding Rate: 10 lbs./acre Fertilizer: 10-20-20 at 200-300 lbs./acre	10 lbs.	CS-FAT	\$40.00
Winter Tubers - annual winter forage; forage is extremely palatable and very high in crude protein; yields 4-6 tons/ac	Vibrant Forage Brassica, Rangiora Forage Rape, Essex Rape, Purple Top Turnip, Appin Forage Turnip	Seeding Rate: 5 lbs./acre Fertilizer: 19-19-19 at 200-300 lbs./acre	5 lbs.	CS-WTU	\$30.00
Flash Mix - can be planted any time during the growing season; great for a first year plot; will condition the site for the next season	Appin Turnip, Forage Oats, Berseem Clover, Bobwhite Soybean, Grain Rye, Forage Rape, Crimson Clover	Seeding Rate: 20 lbs./acre Fertilizer: 10-10-10 at 200-300 lbs./acre	10 lbs.	CS-FMX	\$30.00
Game Bird Forage & Cover - attracts games birds & wild turkey; stand will provide attraction for one full year	Bobwhite Soybean, Austrian Winter Pea, Dwarf Sorghum, White Proso Millet, Black Oil Sunflower, Buckwheat, Forage Rape	Seeding Rate: 20 lbs./acre Fertilizer: 19-19-19 at 200-300 lbs./acre	10 lbs.	CS-GBF	\$30.00
PBO Hammer Mix - great for an early or late season seeding; a favorite of PBO Outdoors Television Pro Staff!	Austrian Winter Pea, Purple Top Turnip, Forage Rape, Crimson Clover, Winter Rye, Buckwheat	Seeding Rate: 20 lbs./acre Fertilizer: 19-19-19 at 200-300 lbs./acre	10 lbs.	CS-PBO	\$30.00

Wildflower Seed Mixes

The ease of establishing and the low maintenance of wildflowers make them a natural choice for the home landscape. They are 100% wildflower seed - no fillers. Along with the beauty of the wildflower, plants provide important sources of food and shelter for wildlife.

Annual Overseeding Blend

This mixture contains all annual varieties in a full range of colors. Blooms will begin to appear in as little as six weeks and continue throughout the season. Especially useful to brighten up existing plantings or for quick color all by itself. Mixture contains the following easy to grow varieties: Scarlet Flax, Corn Poppy, Baby's Breath, Calendula, Cornflower, Clarkia amoeba & un-guiculatea, Plains Coreopsis, Evening Primrose and Sweet William Catchfly.

WF7NOS .75 oz Packet for \$5.90
WF4NOS 4 oz Poly Bag for \$11.52

Bee Feed Pollinator Mix

Species included are Chinese forget me not, Siberian wallflower, California poppy, purple cornflower, aster, corn poppy, blue flax, and 12 other species.

WF7BF .75 oz Packet for \$5.90
WF4BF 4 oz Poly Bag for \$11.52

Bird & Butterfly Mix

Species included are bachelor's buttons, cosmos, ox-eye daisy, foxglove, Indian blanket and 8 other species. This mix consists of 4 perennial, 8 annuals and 1 biennial.

WF7BB .75 oz Packet for \$6.98
WF4BB 4 oz Poly Bag for \$12.92

Enviro-Friendly Mix

Species included are candytuft, nasturtium, dill, cosmos, cornflower, California poppy, fennel, Rocky Mountain beeplant, lavender hyssop, dwarf columbine, bishop's flower, sweet alyssum, white clover, cilantro, plains coreopsis, black-eyed susan, New England aster, common evening primrose.

WF7EF .75 oz Packet for \$5.90
WF4EF 4 oz Poly Bag for \$11.52



Shady Mix

It includes baby blue-eyes, sulfur cosmos, dame's rocket, foxglove and 7 other species. This mix consists of 5 perennials and 6 naturally re-seeding annuals and biennials.

WF7SH .75 oz Packet for \$5.90
WF4SH 4 oz Poly Bag for \$11.52

Sunny Mix

Species included are baby's breath, cornflower, rocket larkspur, Shasta daisy, blue flax, baby snapdragon, bluebells, phlox and 12 other species. The mix consists of 6 perennials and 14 naturally re-seeding annuals and biennials.

WF7SU .75 oz Packet for \$5.90
WF4SU 4 oz Poly Bag for \$11.52

.75 oz. packet covers approximately 250 sq. ft.

4 oz. poly bag covers approximately 1,350 sq. ft.

Other Items For Sale

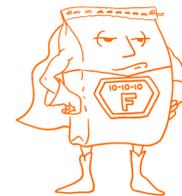
ANIMAL GUARD: Easy to install. Keeps pests (woodchucks, muskrats, squirrels, etc.) out of any drainage system. Position far enough in the pipe to allow it to swivel up to let trash flow out without exposing the animal guard beyond the end of the pipe. Easy to install.

- 4AG** 4" Animal Guard \$16.20 each
 - 6AG** 6" Animal Guard \$18.36 each
 - 8AG** 8" Animal Guard \$20.90 each
- LARGER SIZES ARE AVAILABLE**



FERTILIZER PELLETS: Provides the push needed to get tree seedlings growing in the poorer soils on which most plantings are made. The tablets do not dissolve; instead, the nutrients are gradually released over a period up to two years by the action of soil bacteria. Analysis: 20-10-5 plus calcium, magnesium, sulfur, iron, and zinc. Each tablet is 10 grams.

- FP** 10 for 1.62
- 25 for \$4.03
- 50 for \$8.10
- 100 for \$16.20
- 1,000 for \$91.38



MARKING FLAGS: Fluorescent Orange, 4-1/2 x 4 inch plastic flag on a 36" steel wire staff.

- MF** 10 for \$1.62
- 30 for \$ 4.86
- 50 for \$8.10
- 100 for \$16.20



PIPE TRASH GUARD: Constructed of 1/4" steel. Fights trash to keep intakes flowing freely. Its unique design helps keep intakes from plugging with crop residue or other types of trash. Excellent for pond spillway pipes.

- 6TR** 6" Trash Guard \$43.20 each
- 8TR** 8" Trash Guard \$48.60 each

LARGER SIZES ARE AVAILABLE

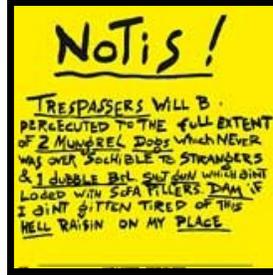


POSTED SIGNS: Yellow or Orange Plastic: High density polyethylene with maximum ultraviolet resistance for long outdoor durability and colorfastness.

NPS - Yellow
SPS - Yellow

\$1.35 each
 10 or more \$1.19 each

NPS



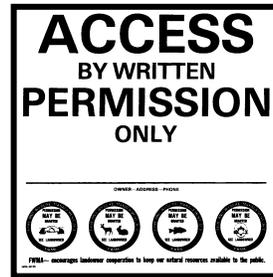
SPS



APS - Yellow
ATV - White

\$3.46 each
 10 or more \$2.92 each

APS



ATV



Legal Posted Signs

LPSO - Orange
LPSY - Yellow
LPNT - Orange

\$1.35 each
 10 or more \$1.19 each

LPNT



LPSO
LPSY



TREE PLANTATION SIGNS: Aluminum, orange with black print. 11-1/4" x 11-1/4" in size. "WARNING: TREE PLANTATION, NO MOTORIZED VEHICLES, HUNTING, FISHING, TRAPPING OR TRESPASSING FOR ANY PURPOSE IS STRICTLY FORBIDDEN."

TPS \$2.26 each
 \$1.72 each 10 or more



TREE PLANTING BAR (DIBBLE): Blade and footstep are cast as one piece, footstep won't break or bend, even under heavy use. Made of special alloy steel that is stronger and more resistant to abrasions. Blade is wedge-shaped in cross-section. Bar is 38" long. Blade is 3' W x 10" L x 3/4" wide at top, tapering to a thin wedge.

TPB \$50.23 each



BARLEY STRAW BALE POND KIT

Barley straw has been publicized as an effective, organic remedy to algae problems. However, research shows that barley straw does not always solve algae problems. More research is being done, but pond owners should be wary of absolute claims regarding barley straw's effectiveness.

British researchers have found that barley straw controls algae through a complicated chemical reaction that is poorly understood. Since the US Environmental Protection Agency has determined that barley straw is not a legal pesticide, it may not be sold as an algae control product. Homeowners may apply it to their ponds, but only with the caution that it may not always work as expected.

BSB Barley straw bale only \$20.00

BSK Barley Straw Pond Kit

Each kit includes: 1 barley straw bale, 5 large green mesh bags (22" x 36") with draw string, 5 floatation devices.

Ordering Code	Pond Size	Bales	Price per Kit
BSK-A	Small Ornamental Ponds (10'x10')	Small bag	\$3.50
BSK-B	¼ acre	1	\$30.00
BSK-C	½ acre	2	\$48.00
BSK-D	¾ acre	3	\$54.00
BSK-E	1 acre	4	\$68.00

If you plan to apply barley straw to a pond, follow these general recommendations:

1. Apply barley straw to a pond as soon as ice is gone. The algae control properties of barley straw take several weeks to begin.
2. Determine your pond's size in acres, then plan to apply 200 - 250 pounds of barley straw per acre (about 4 - 5 bales)



3. When you get the bales, break them up and fluff up the stems so they make a big, loose pile. Stuff the barley straw into several woven sacks, like 50# onion bags. Insert a buoyant object into the bag. The assembly should be able to float at the surface of the pond.

4. Place the floating sack on the pond surface & anchor it to stay in place, the sacks should be spaced evenly around the pond to assure even coverage. Barley straw should not be anchored near the edge of the pond, except near an inflowing water course. Make sure they never block the pond spill way.¹

¹(Taken from the article "How to prevent and control algae in farm ponds" by Jim Ochtanski, Cornell Cooperative Extension South Central New York Agricultural Team, and Rebecca Schneide, Cornell University Department of Natural Resources, with research from North Carolina Cooperative Extension Service, Purdue University, and the USDA NRCS. April 2003)

Tree Tubes & Mats

Miracle Tree Tubes

What is a tree shelter? It's a rigid corrugated plastic sleeve anchored by a hardwood stake, that promotes seedling growth. Tubes provide protection from the drying wind, rodents, mowers, deer, drought and herbicides. The other major benefit of tree tubes is that they create a "mini-greenhouse" around the tree which conserves moisture and promotes terminal development. Seedling survival is greatly improved. Tubes are left on the trees and photo-degrade in 5 to 7 years. Tree Tubes have been used commercially for years.

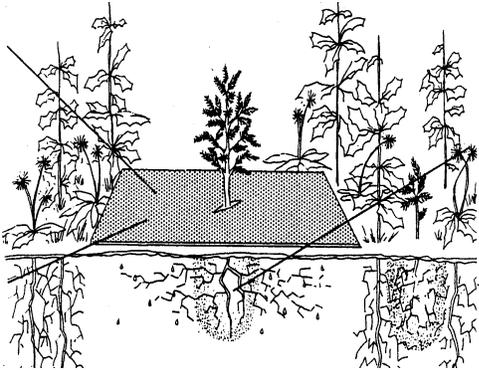
Tubes can be used on transplanted seedlings, previously planted seedlings, wild volunteers, grafts, stump sprouts and even pre-germinated acorns or nuts. They can be used on nut trees, fruit trees, windbreaks, shade or reforestation trees.

Proper installation is critical to the tree shelter's success. Complete instructions are provided, plus our staff is ready to answer any questions you may have.

There are two sizes to choose from: 2 ft and 5 ft. The 5 foot size comes with bird netting for the top. Size is chosen based on the species and protection needed.

VisPore Tree Mats

Mats are 3' sq. and come with anchor staples for installation



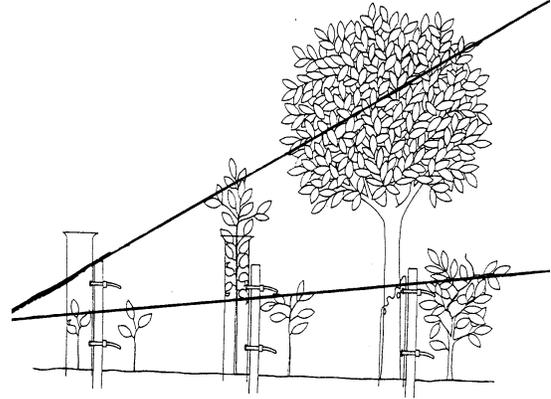
The easy way to supplement the essentials of tree growth!

-WATER: VisPore Tree Mats give your tree 9 square feet of weed-free soil all to itself, with no competition from thirsty weeds.

-LIGHT: VisPore Tree Mat keeps weeds away so they can't hog the sunlight and shade out seedlings.

-NUTRIENTS: Using VisPore Tree Mats is like treating every tree to a banquet of nutrients. Without weeds to compete for valuable nutrients, your trees take advantage of everything the soil offers.

Tubes Dramatically Increases Growth and Survival Rate Over Time.



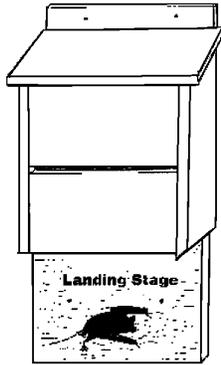
Which Product To Choose:

Product	What to protect	Protect from
2' Tree Tube	Either conifer or deciduous	Mice, moles, wind, drought, rabbits & other rodents
5' Tree Tube	Deciduous plants	All above plus deer
VisPore mat with staples (3'x3')	Either conifer or deciduous	Weed competition

Ordering Codes:

CODE	SIZE	1 - 24	25-999	1,000 +
2'	2 ft. tube	\$2.04	\$1.77	\$1.50
2' Stake	2 ft. stake	.76	.76	.76
2'/S	2 ft. tube and stake	\$2.69	\$2.42	\$2.15
5'	5 ft. tube	\$4.63	\$4.36	\$4.09
5' Stake	5 ft. stake	1.19	1.19	1.19
5'/S	5 ft. tube and stake	\$5.66	\$5.39	\$5.12
VTM	3 ft. square with 5 staples	\$2.70	\$2.26	

BIRD AND BAT HOUSES



BATHOUSE

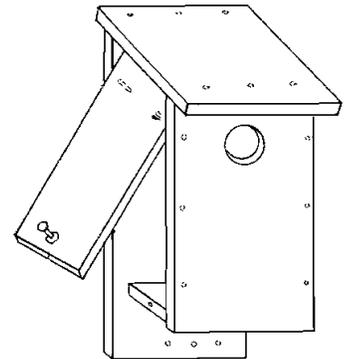
Fight West Nile Virus with bats. Bats can eat thousands of night flying insects, including mosquitoes, so many people are now realizing their benefits. Bats prefer warm houses, so placement of the house is important. Position the house 15' - 20' high on an exposure that receives at least 6 hours of sunlight. Any exposure except the north should be fine. Best sites are 20' - 25' from trees or other obstructions. Houses should be placed on the side of a building or on a pole, not in a tree. Put the bat houses out in April or May.

BHH - Bat House - \$12.00 each

BLUEBIRD HOUSES

We celebrate the beautiful Bluebird as a symbol of hope and happiness. Bluebirds are in jeopardy primarily because they cannot find enough places to breed successfully. Bluebirds most often compete for nesting sites with house sparrows and starlings. Very early in the spring, bluebirds begin nesting in rural localities. They prefer open areas with scattered trees where the ground is not covered with tall undergrowth. Pastures and large lawns are good locations.

BBB - Bluebird House \$12.00 each



BUTTERFLY HOUSES

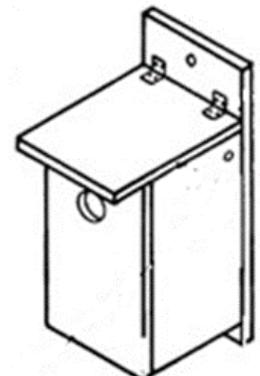
Butterfly houses provide shelter from wind and rain and provide caterpillars a nice place to pupate. Butterfly houses have slots the ideal size for keeping birds out while giving butterflies protection and are beautiful garden decorations.

BFH - Butterfly House - \$16.00 each

KESTREL HOUSES

American Kestrel and Sparrow Hawk prefer open urban or cultivated (areas) containing scattered trees or other high perches, such as utility lines. Their habitat is varied, including forest edges, orchards and pastures.

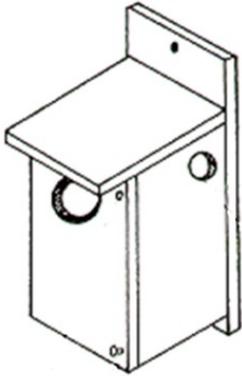
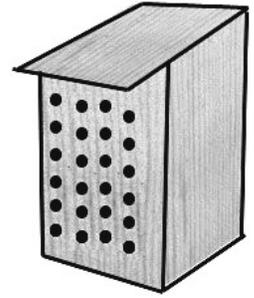
AKH - American Kestrel House - \$19.00 each



MASON BEE HOUSES

"Bee Houses" provide cover and places to raise young for bees. The orchard mason bee is a wonderful little creature. It does not live in a nest like other bees; it lives in wooden blocks, but does not drill holes and destroy wooden items like other bees. It uses holes that are already available. The male orchard mason bee can not sting and the female rarely stings. Place the bee house on the south side of buildings, fence posts, or trees.

MBH - Bee House - \$16.00 each



SCREECH OWL HOUSES

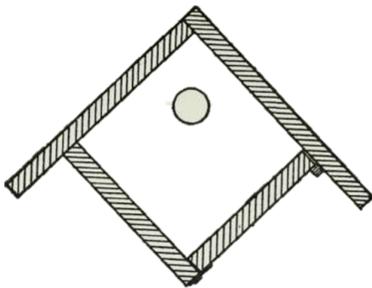
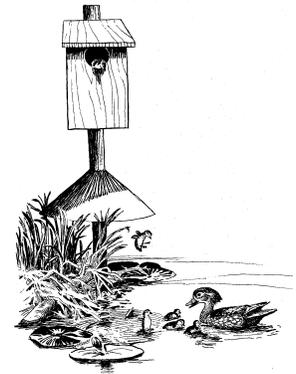
Screech owls prefer abandoned woodpecker holes at the edge of a field or neglected orchard. They will readily take to a box lined with an inch or two of wood shavings. If you clean the box out in late spring after the young owls have fledged, you may attract a second tenant—a kestrel. Trees isolated from larger tracts of woods have less chance of squirrels taking over the box.

SOH - Screech Owl House - \$19.00 each

WOOD DUCK HOUSES

Wood duck boxes are most successful when placed over water, but can also be placed in woodland habitat up to half-a-mile from open water and should be mounted on a post 6'-8' high with the entrance hole facing south or west. Protecting previously used nests is very important. Once successful, a female will nest in the same cavity year after year.

WDH - Wood Duck House - \$19.00 each



WREN HOUSE

House Wrens prefer areas with trees and shrubs. Hang the wren house 6' - 10' high in a tree or shrub. It pays to put up 2 - 3 wren houses in a backyard. The houses may be 20' - 50' apart. They seldom build second or third nests in the same house in the same year; they will move to one of the vacant houses instead.

WRH - Wren House - \$12.00 each

8' FENCE POST: Wooden cedar fence post approximately 3" diameter. Excellent for attaching bird houses and nesting boxes, also great for fences.

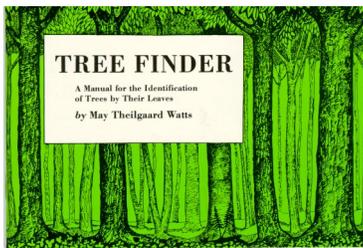
8FP - \$7.00 each

"Finder Books" - All books are pocket size, paper back identification books, approximately 60 pages in length.

All books are \$5.40 each
 5 for \$25.65
 8 for \$38.88



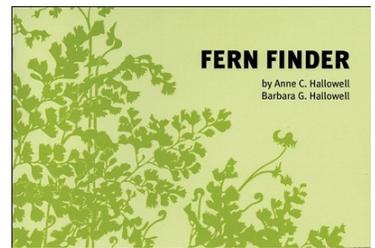
"Tree Finder" FB-T



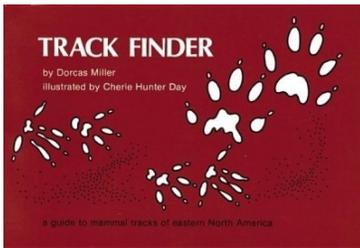
"Winter Tree Finder" FB-W



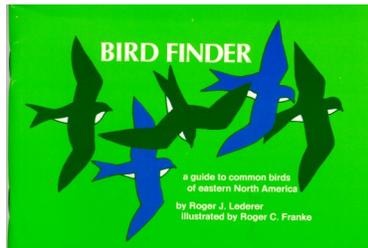
"Fern Finder" FB-FF



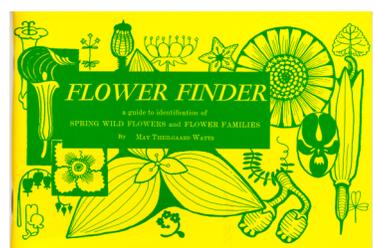
"Track Finder" FB-TF



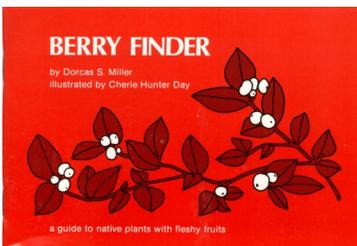
"Bird Finder" FB-BF



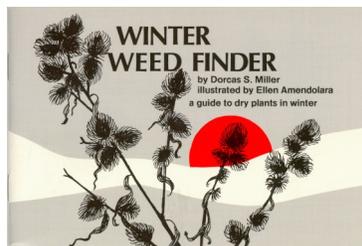
"Flower Finder" FB-F



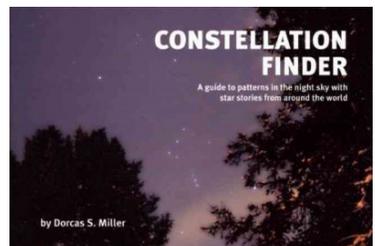
"Berry Finder" FB-B



"Winter Weed" FB-WW



"Constellation Finder" FB-C



COUNTRY WISDOM BULLETINS - These 32-page, easy-to-follow bulletin, written by experts. Contains valuable "how-to" information and illustrations. Books are a must have for the handy person or the hobbyist. Each book covers a single subject in depth. At **\$5.40 each**, they are an unbeatable value! Most books are in stock at our office. Come up to see what they are all about.

\$5.40 each

GROWING

- A-2 Wide Row Planting, the Productive Miracle
- A-15 SCAT: Pest Proofing Your Garden
- A-21 What Every Gardener Should Know about Earthworms
- A-33 Berries, Raspberry & Black
- A-35 Grafting Fruit Trees
- A-49 Gardening Answers
- A-53 Great Grapes! Grow the Best Ever
- A-54 Pruning Trees, Shrubs & Vines
- A-61 Grow 15 Herbs for the Kitchen
- A-68 Grow the Best Corn
- A-71 Grow Super Salad Greens
- A-73 Drought Gardening
- A-89 Grow the Best Blueberries
- A-99 Landscaping with Bulbs
- A-103 Flower Arranger's Garden
- A-104 Starting Seeds Indoors
- A-108 Landscaping with Annuals
- A-114 Grow a Butterfly Garden
- A-116 Growing Miniature Roses
- A-117 Growing the Best Root Crops
- A-119 Growing & Using Basil
- A-124 Creating Your Own Water Garden
- A-127 Using Beneficial Insects
- A-131 Growing & Using Scented Geraniums
- A-132 Flowering Shrubs
- A-140 Gardening in Clay Soil
- A-145 Growing & Cooking with Mint
- A-147 Long Lasting Hanging Plants
- A-148 Extending Your Gardening Season
- A-151 Container Gardening
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- A-232 Growing & Using Echinacea
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- A-88 Buying an Old House
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- A-201 Sleep & Relaxation: A Natural & Herbal Approach
- A-210 Saving Injured & Orphaned Wild Birds
- A-211 Hand Feeding Chickadees
- A-244 25 Aromatherapy Blends For De-Stressing
- A-245 Natural & Herbal Remedies For Carpal Tunnel
- A-254 Aromatherapy Message From Head to Toe
- A-218 10 Essential Herbs for Lifelong Health

Helpful Steps for Successful Plantings

Site Selection

A proper landscape plan takes each tree into consideration:

1. **Height:** Will the tree grow into anything at its mature height?
2. **Canopy spread:** How wide will the tree grow?
3. **Is the tree deciduous or coniferous:** Will it lose its leaves in the winter?
4. **Form or shape:** A columnar tree will grow in less space. Round and V-shaped species provide the most shade.
5. **Growth rate:** How long will it take for your tree to reach its full height? Slow growing species typically live longer than fast growing species.
6. **Soil, sun and moisture:** Requirements for the tree vs. your site conditions.
7. **Fruit:** Did you consider the potential of messy droppings?
8. **Hardiness zone:** This indicated the temperature extremes in which a tree can be expected to grow.



Benefits of Bare-root Trees

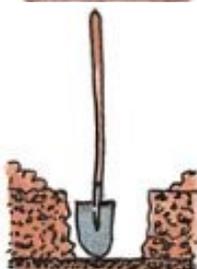
As their abundant, fibrous roots aren't confined by a container, bare-root trees get off to a more vigorous start compared to containerized roots which typically need more time to adjust to transplanting. Bare-root trees typically surpass the size of larger containerized trees in only a few years.

Adapted from the Arbor Day Foundation. Additional information on plant and site selection can be found on arborday.org.

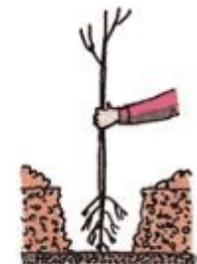
Planting Instructions



1. Unpack your trees, remove all packing materials, carefully untangle roots and soak the roots in water 3 to 6 hours, to prevent the roots from drying out.



2. Dig a hole, wider than seems necessary, so the roots can grow outward without crowding. Remove any grass within a 3-foot circular area. To aid root growth, turn soil in an area up to 3 feet in diameter.

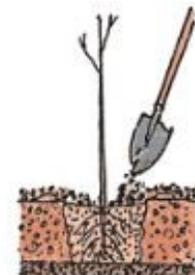


3. Plant the trees at the same depth it stood in the nursery, with plenty of room for the roots. Partially fill the hole, firming the soil around the lower roots.

4. Shovel in the remaining soil. It should be firmly but not tightly packed. Construct a water-holding basin around the tree. Give the tree plenty of water.



5. After the water has soaked in, spread protective mulch two inches deep in a 3-foot diameter area around the base of the tree, but not touching the trunk.



6. The soil and mulch around your trees should be kept moist but not soggy. During dry weather, generously water the tree every 7 to 10 days during the first year.



Wildlife Habitat Tree Planting

To attract wildlife to your acreage, providing FOOD SOURCES is the greatest secret. A variety of food sources is beneficial to the diet. Fruits attract a greater diversity of wildlife species. Wildlife soon discover good food sources and stay close to them. Fruit trees can be established quite easily. They are able to provide lots of attractive food. Apple trees, various other fruit trees or nuts are permanent plantings that add beauty and provide food year after year. Once they are established they require very minimal care.



Getting Started

Selecting Sites

Plant in areas that provide adequate drainage. Ridges are preferred. Avoid planting in low, swampy sections. Hillsides or banks that have sufficient topsoil are suitable places to plant. Select semi-shaded or open field areas. Avoid planting in deeply wooded, shady sections. Fruits will be much higher quality where direct sunlight is received at least 60% of the time.

Planting Procedure

Spade up a small area slightly larger than the root system of the tree planning to plant. Set the tree into the hole. Spread out the roots. Plant wildlife trees deeper than orchard trees. Mound up soil to cover the graft union. This will create a vigorous rooted tree. Tamp the soil over the roots to avoid air pockets. Water well after planting and cover the fresh soil area with leaves, mulch or compost.

Pruning

Wildlife habitat trees should be pruned differently than orchard trees. At planting, prune off any side branches 4' - 5' from the ground that would be prone to deer browsing. Allow the top to grow up out of the reach of browsing deer. Keep pruning limited until the tree is well established. Later, as the trees continue to develop, prune out several entire limb sections to maintain a larger, spreading crown area.

Post Planting Protection

DO NOT allow the weeds or grass to compete with the new trees! Mulch, spray or work the area surrounding the new trees. This is important in the success of establishing vigorous growth. Protect the trunks from girdling rodents, or rabbits. Netting or plastic tree guards can be used. Allow the trees to grow up beyond the reach of browsing deer. Sometimes fence protection is needed. Where only moderate rodent and deer pressure exists, the trees can be protected by painting the trunks with latex paint and attaching a deer deterrent soap bar to each tree. Trees planted late in the spring often require extra watering during the summer drier stress periods. (July, August) to provide ample moisture to the establishing root systems. Fertilizer should be applied in the springtime just before the growth cycle.

Following these simple steps with diligence during planting and providing protection for the first couple years afterwards will benefit you with success. It can provide natural food sources for your enjoyment, for wildlife, and generations of nature lovers in the future.



Chautauqua County Soil and Water Conservation District Services Available

District Services are available on request to the general public as well as public and private organizations, schools, cities, towns, villages, town and county highway departments and all units of government.

The following is a list of services that we can provide for you:

Planning and Technical Assistance

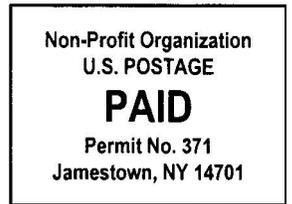
- **Agricultural Value Assessment**
- **Erosion and Sediment Control**
- **Urban and Rural Drainage Problems**
- **Non-Point Source Pollution**
- **Soil & Water Resource Management**
- **Livestock Programs**
- **Pond Design**
- **Topographic Maps:** Full coverage of Chautauqua County and the Allegheny State Park, also part of Cattaraugus County and Pennsylvania. Can order any in the USA.
- **Historical Aerial Photography** for Chautauqua County
- **Soil Maps, Soils Descriptions and Legends**
- **Recreational, Highway and Educational Maps and Brochures:** Chautauqua Lake, Lake Erie and Allegheny Reservoir Fishing Maps, Chautauqua and Cattaraugus Highway, Hiking Trail Maps
- **Mulch Net:** For erosion control and deer browsing

Also Available

Fish Pond Stocking:

*Bass,
Channel Catfish,
Trout,
Koi,
Perch,
Triploid Grass
Carp*

**Chautauqua County SWCD
Northcrest Business Park
220 Fluvanna Ave, Suite 600
Jamestown, NY 14701**



Place Label Here