Chautauqua County
Soil and Water
Conservation District

2020
Tree and Shrub Sale

FRUIT/BERRY PACKAGES :
DEADLINE MARCH 9th

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
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.
Native to NY

BALSAM FIR (*Abies balsamea*) TRANSPLANTS, 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

Native to Chautauqua County

CONCOLOR FIR (*Abies concolor*) TRANSPLANTS, 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).

**TCF** 10 plants for $20.00
25 plants for $43.00
50 plants for $80.00
100 plants for $140.00

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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.
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 $25.00
    25 plants for $53.00
    50 plants for $95.00
    100 plants for $175.00

Pine Species

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.

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

RED PINE (Pinus resinosa) TRANSPLANTS, 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.

TRP 10 plants for $25.00
    25 plants for $53.00
    50 plants for $95.00
    100 plants for $175.00
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.

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

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

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

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

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.

**SERBIAN SPRUCE (Picea omorika) TRANSPLANTS,** grows tall with a slender straight trunk, but it stays quite narrow. Strongly upheld main branches are lined with pendulous secondary branches that seem to drip from the main branches. Needles are ¾ - 1 inch long, and dark green-bluish in color and distinctive purple cones. Branches are pendulous and cascading. Prefers full sun to partial shade. The tree grows 60 - 100 feet tall with trunk diameter of 3 feet. Has major importance as an ornamental tree in large gardens, valued in northern Europe and North America for its very attractive crown form and ability to grow on a wide range of soils, including alkaline, clay, acid and sandy soil, although it prefers moist, drained loam. Tall and skinny form make for excellent green walls or used as tall screens in larger scale landscapes.

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

**WHITE SPRUCE (Picea glauca) TRANSPLANTS,** needles are ¾ - 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 $20.00
- 25 plants for $43.00
- 50 plants for $80.00
- 100 plants for $140.00
**Other Conifer Species**

**BALD CYPRESS (**Taxodium distichum**),** most often associated with swamps, often thriving when it stands in water for several months of the year. Leaves are light and feathery, dropping each winter and then grows a new set in spring. In autumn, the leaves turn yellow or copper red. Large, slow-growing, and long-lived. Grows 35-120’ tall and 3-6’ in diameter. Adapts to a wide range of soil types, whether wet, dry, or swampy. Grows in full sunlight to partial shade. Rot resistant wood. Seeds are browsed by grey squirrels and wood ducks.

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

**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

**NORTHERN WHITE CEDAR (**Thuja occidentalis**,** also called Arborvitaes (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
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.

Native to NY

Native to Chautauqua County

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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.

Native to NY

Native to Chautauqua County

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BUR OAK (*Quercus macrocarpa*), gets its common name from the fringed cup on its acorn (mossycup oak). Relatively slow growing and is one of the most drought tolerant of the oaks. Shade tolerant. Can reach 100 feet in height. Grows on a variety of sites and will tolerate exposed sandy soils. Often planted as ornamental or shade trees. Wood is heavy, very hard and strong. Used for flooring, furniture, barrels and kegs.

Native to NY

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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 $20.00
- 25 plants for $43.00
- 50 plants for $80.00
- 100 plants for $140.00

NORTHERN PECAN (*Carya illinoinensis*), 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 $17.50
- 25 plants for $38.00
- 50 plants for $70.00
- 100 plants for $122.50

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.

**RO**
- Native to NY: 10 plants for $12.50
- Native to Chautauqua County: 25 plants for $28.00
- 50 plants for $50.00
- 100 plants for $87.50

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.
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.

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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.

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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.

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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 $20.00  
25 plants for $43.00  
50 plants for $80.00  
100 plants for $140.00

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 (½-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 $12.50  
25 plants for $28.00  
50 plants for $50.00  
100 plants for $87.50

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 $20.00  
25 plants for $43.00  
50 plants for $80.00  
100 plants for $140.00
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 $15.00  
25 plants for $33.00  
50 plants for $60.00  
100 plants for $105.00

HONEYLOCUST (*Gleditsia triacanthos*), also called thorny locust because of the large thorns on the truck and branches. Produces large, pea-like seed pods (6-16" in length). Prefers full sun. Reaches 75 to 80 feet in height. A small to medium tree with a dense cylindrical crown. Prefers moist bottomlands, but survives on all but the driest of soils. Wood is very hard, very heavy and shock resistant. Tendency to split. Resistant to decay. Mostly planted with landscaping, in parks and yards and along roads.

HL  
10 plants for $20.00  
25 plants for $43.00  
50 plants for $80.00  
100 plants for $140.00

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 $25.00  
25 plants for $53.00  
50 plants for $95.00  
100 plants for $175.00
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 $20.00
- 25 plants for $43.00
- 50 plants for $80.00
- 100 plants for $140.00

RIVER BIRCH (*Betula nigra*), very attractive golden fall foliage. Reddish brown to salmon pink, curled bark. Shade tolerant, fast growing and short lived (50-75 years). Can grow to heights of 80 feet, but is commonly found 40 to 60 feet in height. Prefers wet soils in river valleys and along the banks of streams, ponds and swamps. Wood is rarely used for commercial application, and is more commonly planted as a landscape tree.

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

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.

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

Native to NY

AC 10 plants for $17.50  
    25 plants for $38.00  
    50 plants for $70.00  
    100 plants for $122.50

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.

Native to NY

BCB 10 plants for $20.00  
    25 plants for $43.00  
    50 plants for $80.00  
    100 plants for $140.00

Native to Chautauqua County

**BUTTERFLY BUSH** (*Buddleia davidii*), 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.

Native to NY

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

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

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

**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 $20.00
- 25 plants for $43.00
- 50 plants for $80.00
- 100 plants for $140.00
FRAGRANT SUMAC (*Rhus aromatica*), named for the glossy, blue-green leaves emit a lemon scent when crushed, and turn a mixture of red, burgundy, purple color in the fall. Low growing shrub, can be used for ground cover. Multi-stemmed, can form thickets. Reaches max heights of 5 feet and 5 to 10 feet wide. Will tolerate both wet and dry soils as well as salt. Excellent shrub to stabilize slopes. Stems develop roots where it touches the ground. Berries ripen in late summer and may persist into winter attract many birds.

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

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 $17.50  
- 25 plants for $38.00  
- 50 plants for $70.00  
- 100 plants for $122.50

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 windbreaks and wildlife.

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

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. 

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

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>10 plants</td>
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Native to NY

Native to Chautauqua County

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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.

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Native to NY

Native to Chautauqua County

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STAGHORN SUMAC (*Rhus typhina*), its fuzzy central stalks resemble the velvety antlers of deer, hence, its common name. One of the first trees to turn color each autumn. Leaves will turn red to maroon. Single or multi-stemmed. Fast growing, reaching heights of 10 to 20 feet. Grows on dry or poor soils, along forest edges, in full sun. Excellent shrub to stabilize slopes, often planted along highways due to its rapid growth. Spreads by underground roots that send up new trunks. Animals and birds eat the red, berry-like fruit. Seeds soaked in water produce a sour lemonade drink.

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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.

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**WHITE FLOWERING DOGWOOD** (*Cornus florida*), early blooming of showy flowers makes this one of the most beautiful flowering trees in NYS. A small tree that reaches 20 to 30 feet in height. Leaves turn bright red in the fall. Prefers moist soils, along forest borders and meadows. Fruit is eaten by many bird species. Wood is hard and used to make mallet handles, spools and pulleys. Red dye was once extracted from the roots. Often planted as an ornamental for its flowers and as food for wildlife.

<table>
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</table>

**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’.

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<td>$140.00</td>
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</table>
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 verticillum 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 $28.00  50 plants for $50.00  100 plants for $87.50

ANNE GOLD RASPBERRIES (EVERBEARING), large, fruitied sweet yellow raspberry. Plants need spacing of 12 to 18 inches by 8x12 feet. Fruits in the fall. Berry size is twice that of a typical red raspberry.

GR 10 plants for $40.00  25 plants for $95.00  50 plants for $185.00

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, hardy shrub that can reach heights of 4 to 6 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. Ripens early mid season. Fruit is large with excellent flavor, firmness and color. Foliage is sparse, but production is good. Also provide wildlife benefits. Fruits are taken by mourning dove, ruffed grouse, pheasant, and many songbirds.

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

RED RASPBERRY—LATHAM, very hardy and suitable for colder climates. Less susceptible to viruses than some other cultivars. Vigorous with few spines and moderately productive. Small red fruit has good color. Fruit ripens mid-season and over a long period of time. Suitable for the home or commercial grower.

RR 10 plants for $40.00  25 plants for $95.00  50 plants for $185.00

Deadline for berry orders is March 9th and no excess stock will be ordered.
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 Pippen, 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
**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-PEAR**
  - WPP4 4 plants for $59.00
  - WPP10 10 plants for $99.00

- **WILDLIFE-CHERRY (Tart)**
  - WPC4 4 plants for $59.00
  - WPC10 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 9th and no excess stock will be ordered.**
All Hostas are sold in single divisions (2-3 eyes)

**FORTUNEI HYACINTHINA** - Grows to a height of 1 to 1.5 feet and a spread of 1.5 to 2 feet. Prefers part shade to full shade. Grows best in moist, well drained soils, with slight tolerance for dry shade. Leaves are blue-green and mature to green-grey. Remove dead foliage as needed and when it dies back at the end of the growing season. Propagate by division in late summer or early spring. Blooms mid-summer with fragrant, pale purple flowers. Attracts hummingbirds. Watch for slugs and snails, which can damage foliage.

**ROYAL STANDARD** - Grows to a height of 1.5 to 2 feet and a spread of 3 to 5 feet. Prefers part shade to full shade. Grows best in moist, well drained soils. Tolerant for full sun with adequate moisture. Leaves are narrow, oval, bright medium green. Remove dead foliage as needed and when it dies back at the end of the growing season. Propagate by division in late summer or early spring. Blooms late summer with fragrant, white flowers. Attracts hummingbirds. Watch for slugs and snails, which can damage foliage.

**UNDULATA MEDIO VARIEGATA** - Grows to a height of 1.5 to 2 feet and a spread of 2 to 3 feet. Prefers part shade to full shade. Grows best in moist, well drained soils, with slight tolerance for dry shade. Leaves are variegated white and green leaves. Remove dead foliage as needed and when it dies back at the end of the growing season. Propagate by division in late summer or early spring. Blooms early summer with lilac-blue flowers. Attracts hummingbirds. Watch for slugs and snails, which can damage foliage.

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

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

**HVA**
- 10 plants for $25.00
- 25 plants for $53.00
- 50 plants for $95.00
- 100 plants for $175.00
Mats are 2' sq. and come with anchor staples for installation

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 2' 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 4 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.

Which Product To Choose:

<table>
<thead>
<tr>
<th>Product</th>
<th>What to protect</th>
<th>Protect from</th>
</tr>
</thead>
<tbody>
<tr>
<td>2' Tree Tube</td>
<td>Either conifer or</td>
<td>Mice, moles, wind,</td>
</tr>
<tr>
<td></td>
<td>deciduous</td>
<td>drought, rabbits &amp; other rodents</td>
</tr>
<tr>
<td>5' Tree Tube</td>
<td>Deciduous plants</td>
<td>All above plus deer</td>
</tr>
<tr>
<td>VisPore mat with</td>
<td>Either conifer or</td>
<td>Weed competition</td>
</tr>
<tr>
<td>staples (2'x2')</td>
<td>deciduous</td>
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</table>

Ordering Codes:

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<tr>
<th>CODE</th>
<th>SIZE</th>
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<th>25-999</th>
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<tbody>
<tr>
<td>2'</td>
<td>2 ft. tube</td>
<td>$2.05</td>
<td>$1.75</td>
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<tr>
<td>2' Stake</td>
<td>2 ft. stake</td>
<td>.75</td>
<td>.75</td>
<td>.75</td>
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<tr>
<td>2'/S</td>
<td>2 ft. tube and stake</td>
<td>$2.70</td>
<td>$2.40</td>
<td>$2.15</td>
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<tr>
<td>5'</td>
<td>5 ft. tube</td>
<td>$4.60</td>
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<tr>
<td>5' Stake</td>
<td>5 ft. stake</td>
<td>1.15</td>
<td>1.15</td>
<td>1.15</td>
</tr>
<tr>
<td>5'/S</td>
<td>5 ft. tube and stake</td>
<td>$5.65</td>
<td>$5.40</td>
<td>$5.10</td>
</tr>
<tr>
<td>VTM</td>
<td>2 ft. square with 5 staples</td>
<td>$1.95</td>
<td>$1.75</td>
<td></td>
</tr>
<tr>
<td>Mix Name</td>
<td>Seed Mix</td>
<td>Application</td>
<td>Quantity</td>
<td>Ordering Code</td>
</tr>
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</tr>
<tr>
<td>Forage 365 - year round attraction; clover stands offer high quality forage for longer periods of time than mixtures</td>
<td>KOPU II White Clover, Starfire Red Clover, Kenland Red Clover, Berseem Clover</td>
<td>Seeding Rate: 10 lbs./acre</td>
<td>10 lbs.</td>
<td>CS-FOR</td>
</tr>
<tr>
<td>Fast Cover Clover - mixed for soil conditions in our region; establishes very fast; good for remote food plots</td>
<td>Crimson Clover, Kenland Red Clover, Starfire Red Clover, Berseem Clover</td>
<td>Seeding Rate: 10 lbs./acre</td>
<td>10 lbs.</td>
<td>CS-FCC</td>
</tr>
<tr>
<td>Chicory/Clover Maxx - chicory favored highly by deer; performs excellent in most soil conditions and during drought</td>
<td>KOPU II White Clover, Starfire Red Clover, Kenland Red Clover, Six Point Chicory, Alsike Clover</td>
<td>Seeding Rate: 10 lbs./acre</td>
<td>10 lbs.</td>
<td>CS-CCM</td>
</tr>
<tr>
<td>Fall Attraction - excellent plot for archery; will stay attractive well into late gun season; high yielding (&gt;3 tons/ac)</td>
<td>Crimson Clover, Purple Top Turnip, Forage Rape</td>
<td>Seeding Rate: 10 lbs./acre</td>
<td>10 lbs.</td>
<td>CS-FAT</td>
</tr>
<tr>
<td>Winter Tubers - annual winter forage; forage is extremely palatable and very high in crude protein; yields 4-6 tons/ac</td>
<td>Vibrant Forage Brassica, Rangiora Forage Rape, Essex Rape, Purple Top Turnip, Appin Forage Turnip</td>
<td>Seeding Rate: 5 lbs./acre</td>
<td>5 lbs.</td>
<td>CS-WTU</td>
</tr>
<tr>
<td>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</td>
<td>Appin Turnip, Forage Oats, Berseem Clover, Bobwhite Soybean, Grain Rye, Forage Rape, Crimson Clover</td>
<td>Seeding Rate: 20 lbs./acre</td>
<td>10 lbs.</td>
<td>CS-FMX</td>
</tr>
<tr>
<td>Game Bird Forage &amp; Cover - attracts games birds &amp; wild turkey; stand will provide attraction for one full year</td>
<td>Bobwhite Soybean, Austrian Winter Pea, Dwarf Sorghum, White Proso Millet, Black Oil Sunflower, Buckwheat, Forage Rape</td>
<td>Seeding Rate: 20 lbs./acre</td>
<td>10 lbs.</td>
<td>CS-GBF</td>
</tr>
<tr>
<td>PBO Hammer Mix - great for an early or late season seeding; a favorite of PBO Outdoors Television Pro Staff!</td>
<td>Austrian Winter Pea, Purple Top Turnip, Forage Rape, Crimson Clover, Winter Rye, Buckwheat</td>
<td>Seeding Rate: 20 lbs./acre</td>
<td>10 lbs.</td>
<td>CS-PBO</td>
</tr>
</tbody>
</table>
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 $11.50

**Bee Feed Pollinator Mix**
Species included are Chinese forget me not, Siberian wallflower, California poppy, purple cornflower, aster, corn poppy, blue flax, land 12 other species.

- WF7BF .75 oz Packet for $5.90
- WF4BF 4 oz Poly Bag for $11.50

**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 $7.00
- WF4BB 4 oz Poly Bag for $12.90

**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 $11.50

**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 $11.50

**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 $11.50

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

4 oz. poly bag covers approximately 1,350 sq. ft.
**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 $18.35 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 1.60
- 25 for $4.05
- 50 for $8.10
- 100 for $16.20
- 1,000 for $91.40

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

- **MF**  10 for $1.60
- 30 for $4.85
- 50 for $8.10
- 100 for $16.20

**PIPE TRASH GUARD:** Constructed of ¼” 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**
  - $1.35 each
  - 10 or more $1.15 each

- **SPS - Yellow**
  - $1.35 each
  - 10 or more $1.15 each

- **APS - Yellow**
  - $3.45 each
  - 10 or more $2.90 each

- **ATV - White**

**Legal Posted Signs**

- **LPSO - Orange**
  - $1.35 each
  - 10 or more $1.15 each

- **LPSY - Yellow**

- **LPNT - Orange**

**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**
  - $2.25 each
  - $1.70 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**
  - $50.25 each
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.

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 Ochterski, 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)
"Finder Books" - All books are pocket size, paperback identification books, approximately 60 pages in length.

All books are $3.50 each
5 for $16.00
8 for $25.50

“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
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.

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**Chautauqua County Soil and Water Conservation District Services**

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
- Fish Pond Stocking: Bass, Channel Catfish, Trout, Koi, Perch, Triploid Grass Carp
- 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 of 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

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For more information, call the District Office at 716-664-2351 ext. 5—
I would be interested in information on fish stocking. Please send me information on:

- Bass
- Channel Catfish
- Grass Carp
- Koi
- Perch
- Trout

Pick up will only be at the Frank Bratt Agricultural Center—Turner Road location. There will be two (2) days for pick-up. You will be notified when to pick up orders.

Payments can only be made by check or credit for the 2020 sale. No cash will be accepted.

If paying by check or money order make payable to: Chautauqua Co. SWCD

CHAUTAUQUA COUNTY SOIL & WATER CONSERVATION DISTRICT
Mailing Address: 220 Fluvanna Ave, Suite 600 Jamestown, NY 14701
Phone: 716-664-2351 ext. 5
Email: chaut-co@soilwater.org
Website: www.soilwater.org

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ALL ORDERS MUST BE PREPAID - Prices include sales taxes.
Orders accepted on a first come - first served basis UNTIL MARCH 9, 2020 (for fruit trees and berries) and APRIL 1, 2020 (for remainder of catalog), or while supplies last.

A fee of $50 will be assessed for any returned checks.