VIRGINIA TREES
for Virginia Landowners

Seedling Catalog
2018-2019

Virginia DOF Nurseries

Growing Tomorrow's Woods

Celebrating More Than 100 Years of Growing Seedlings for Virginia Landowners

Virginia Department of Forestry

Virginia Department of Forestry

www.BuyVaTrees.com

Why Are Virginia Trees Your Best Choice?

The Virginia Department of Forestry has been growing seedlings for Virginia landowners for more than 100 years. When you put your money in the ground in the form of seedlings, you need to start with the best stock available; stock suited for Virginia soils and climate. The cultural practices that we use in growing seedlings in our seedbeds are based on more than 60 years of research and experience in quality production.

In addition to the wide selection of bare-root seedlings, we also offer specialty seedling packs suitable for various wildlife habitats, screening, use in wetland areas and for erosion control. Our seedlings are sold directly from the seedbed without replanting, and seedling age is indicated with 1-0, 2-0 and 3-0 (one-, two- and three-year-old).

This Seedling Catalog provides pricing for more than 40 species of seedlings that have been grown at one of Virginia's two State Forestry Centers: the Augusta Forestry Center, near Waynesboro, and the Garland Gray Forestry Center near Petersburg. For other conservation/reforestation projects, contact your area forester. All orders made from this catalog or on-line, except containerized longleaf pine, will be shipped from the Augusta Forestry Center via United Parcel Service delivery. Containerized longleaf pine must be picked up at the Garland Gray Forestry Center.

Cooperative Efforts

The Virginia State Nurseries are proud to be a member of The Cooperative Tree Improvement Program at North Carolina State University. The mission of the Cooperative is to economically increase forest productivity through the genetic manipulation of loblolly pine populations. Enhanced productivity through breeding, selecting and deploying superior loblolly pine families is a major goal of the Cooperative.

Benefits of Virginia Tree Improvement Research

- Due to the cooperative sharing of genetic material, all of the best families that are suitable for Virginia are in our program.
- Selections have continuously placed extra emphasis on properties (straightness, crown characteristics) desirable for solid wood products.
- Some families from other provenances and cold hardiness zones either fail in Virginia or perform erratically.

Advantages of Our Genetically Improved Loblolly Pine

- Improved genetics for fast-growing, straight and disease-resistant seedlings.
- Increased growth and yield over unimproved seedlings: Based upon field trials through age six, Loblolly Pine Premium Open Pollinated (OP) provides a 50% gain or higher; Loblolly Pine Elite Open Pollinated (OP) provides a 60% gain or higher; Loblolly Pine Virginia's Best Open Pollinated (OP) provides a 65% gain or higher, and Loblolly Pine Control Pollinated (CP) provides a 90% gain or higher.
- Increased profits from improved growth.
- Our seedlings go completely dormant for shipping, and fully dormant seedlings withstand shipment and planting significantly better than non-dormant seedlings.
- We top clip our seedlings, which controls the shoot/root ratio contributing to excellent survival rates.
- Limited supply due to scarcity of seed.

Cost-Share Programs Available for Forest Landowners

Reforestation of Timberlands Program (RT)

The Virginia legislature authorized the Reforestation of Timberlands Program (RT) in 1970 as a financial incentive for private landowners to plant pine seedlings in response to over-harvesting of pine timber. Funds for the program come from two sources: forest industry and the Commonwealth. The industry pays into the fund through a self-imposed forest products tax when timber is harvested. This money is matched with General Revenue funds. The Virginia Department of Forestry's field offices located throughout the state administer the program.

Landowners approved for RT incentive payments carry out reforestation activities, ensuring well-stocked, fast-growing pine plantations. Program benefits include:

- Cost-share assistance for various reforestation projects, such as site preparation, planting and competition control.
- The VDOF offers genetically improved pine seedlings, which tests reveal are producing 35 percent to 90 percent greater volume growth than wild trees, with compact crowns and stem quality for excellent sawtimber production. Growth varies depending on site conditions and management.
- Continuing commitment of the VDOF field staff to help landowners protect and manage the plantation to meet their objectives.
- VDOF assistance in helping landowners find contractors for site preparation, planting, herbicide applications, thinning and wildlife habitat enhancement.

USDA and Other State Programs

The United States Department of Agriculture Farm Bill and the Virginia Department of Conservation and Recreation (VDCR) often includes a number of cost-share and assistance programs for forest landowners to help them improve the soil and water quality on their land through improving forest health, sustainability and by providing multiple environmental benefits through the long-term growth of their forest. These Farm Bill programs are available in Virginia through a cooperative effort of the USDA Natural Resources Conservation Service (NRCS), Farm Service Agency (FSA), VDCR, Soil and Water Conservation Districts (SWCD) and Virginia Department of Forestry (VDOF).

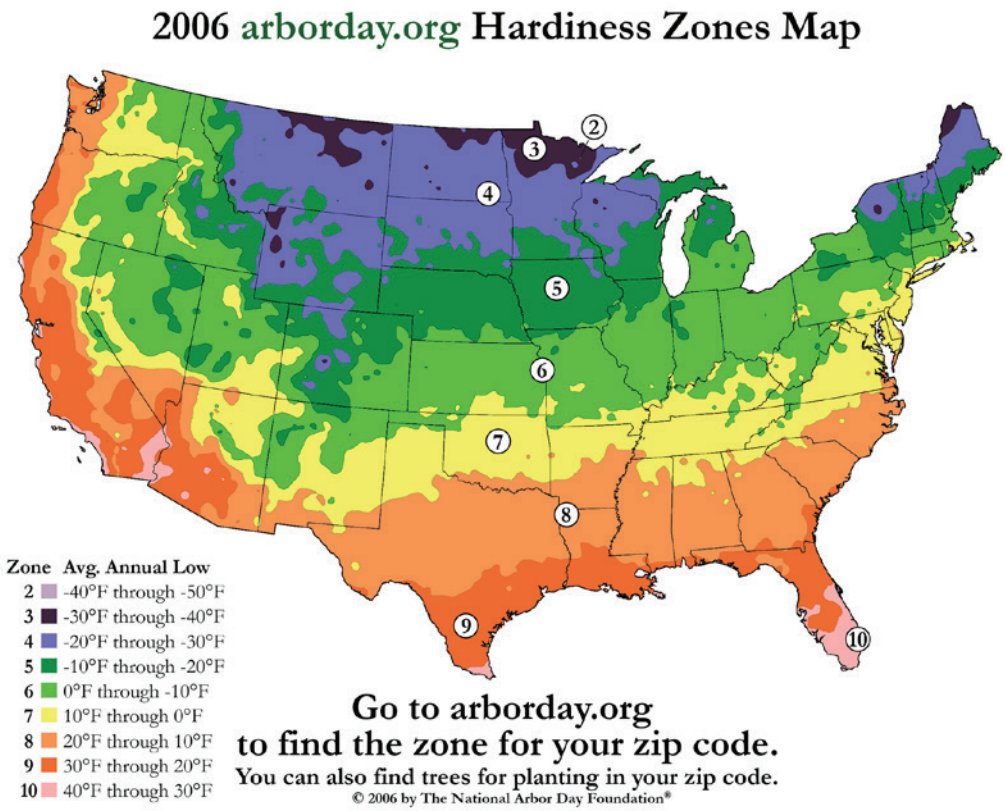
Are You Eligible For Assistance?

Check with your local VDOF forester, United States Department of Agriculture (USDA) Service Center or SWCD conservationist to learn about programs that may be available to assist you in managing and conserving your forest resources.

Whip-Sized Tree Seedlings

Whip-sized tree seedlings are larger, bare-rooted hardwood seedlings, either one- or two-year-old. They are three to four feet tall and/or with a root collar (soil line) diameter of 3/8 inch or larger. They have larger well-developed root systems so they should be planted in augered holes, or with a shovel (too big to plant with planting bars or hoedad tools). With proper planting, season and care, whip-sized seedlings are expected to have good height growth early on. The following species are available in whip-size for an additional 20 percent cost (available in limited quantities);

- Northern Red Oak 1-0
- Pin Oak 1-0



Virginia State Tree Nurseries

Augusta Forestry Center

The center is located in Augusta County on 178 acres adjacent to the South River. More than 40 species of Virginia hardwoods and softwoods are grown in seedbeds covering 100 acres. This center handles the Department's delivery program, which offers tree seedlings and conservation specialty packs.

90 Forestry Center Lane
P.O. Box 160
Crimora, VA 24431-0160
Phone: (540) 363-5732
Fax: (540) 363-5055
Email: monica.davis@dof.virginia.gov
Nursery Forester: Joshua McLaughlin [joshua.mclaughlin@dof.virginia.gov]

Garland Gray Forestry Center

The center is located next to the Nottoway River, which provides irrigation for 80 acres of loblolly pine seed beds. The sandy soils at this nursery are ideal for pine seedling production. A 213-acre tree seedling nursery was established within the boundaries of the Garland Gray Forestry Center in 1984. Garland Gray Forestry Center has state-of-the-art harvesting equipment and a first-class grading, packaging and cold storage facility for preparing the loblolly tree seedlings for shipment.

Garland Gray Forestry Center
19127 Sandy Hill Road
Courtland, VA 23837
Phone: (804) 834-2855
Fax: (804) 834-3141
Email: wacetia.stainback@dof.virginia.gov
Asst. Nursery Manager: Joshua Bennicoff [joshua.bennicoff@dof.virginia.gov]

Hours of Operation

Monday through Friday
8 a.m. – 4:30 p.m.

Find a Species by Type or Purpose...

Conifer Species

Christmas Tree Production
- Pine, Eastern White
- Pine, Scotch
- Spruce, Norway

Timber Production
- Pine, Eastern White
- Pine, Loblolly (All)
- Pine, Longleaf
- Pine, Pitch Loblolly
- Pine, Shortleaf
- Pine, Virginia

Windbreak
- Cedar, Eastern Red
- Pine, Eastern White
- Pine, Scotch
- Spruce, Norway

Hardwood Species

Oak
- Oak, Black
- Oak, Bur
- Oak, Chestnut Oak
- Oak, Northern Red
- Oak, Overcup
- Oak, Pin
- Oak, Sawtooth
- Oak, Sawtooth 'Gobbler'
- Oak, Southern Red
- Oak, Swamp Chestnut
- Oak, Swamp White
- Oak, White
- Oak, Willow

Dogwood
- Dogwood, Gray
- Dogwood, Kousa
- Dogwood, Red Osier
- Dogwood, Silky
- Dogwood, White

Fruit-Bearing
- Apple, Common
- Apple, Crab
- Cherry, Black
- Elderberry, American
- Hawthorne, Washington
- Mulberry, Red
- Pawpaw
- Pear, Common 'Bartlett'
- Persimmon
- Plum, American

Nut-Bearing
- Chestnut, Chinese
- Chinkapin, Allegany
- Hazelnut
- Oak, Black
- Oak, Bur
- Oak, Chestnut Oak
- Oak, Northern Red
- Oak, Pin
- Oak, Sawtooth
- Oak, Sawtooth 'Gobbler'
- Oak, Southern Red
- Oak, Swamp Chestnut
- Oak, Swamp White
- Oak, White
- Oak, Willow
- Walnut, Black

Riparian Species
- Birch, River
- Buttonbush, Common
- Cypress, Bald
- Dogwood, Red Osier
- Dogwood, Silky
- Oak, Pin
- Oak, Swamp Chestnut
- Oak, Swamp White
- Oak, Willow
- Sycamore

Vibrant Color
- Maple, Red
- Maple, Silver
- Maple, Sugar
- Oak, Pin
- Redbud

Timber Production
- Oak, Northern Red
- Oak, Swamp White
- Oak, White
- Poplar, Yellow
- Walnut, Black

Other Hardwoods
- Locust, Black
- Locust, Bristly
- Locust, Honey

Shrub Species

Fruit-Bearing
- Elderberry, American
- Plum, American
- Serviceberry, Alleghany

Nut-Bearing
- Chinkapin, Alleghany
- Hazelnut

Other Shrubs
- Buttonbush, Common
- Dogwood, Gray
- Dogwood, Red Osier
- Dogwood, Silky
- Indigobush
- Lespedeza
- Locust, Bristly

Wildlife Species

Deer
- Apple, Common
- Apple, Crab
- Chestnut, Chinese
- Chinkapin, Alleghany
- Hazelnut
- Oak, Black
- Oak, Bur
- Oak, Northern Red
- Oak, Sawtooth
- Oak, Southern Red
- Oak, Swamp Chestnut
- Oak, Swamp White
- Oak, White
- Pear, Common 'Bartlett'
- Persimmon

Quail
- Hazelnut
- Indigobush
- Lespedeza
- Locust, Bristly

Turkey
- Cherry, Black
- Dogwood, Gray
- Elderberry, American
- Mulberry, Red
- Oak, Pin
- Oak, Sawtooth 'Gobbler'
- Oak, Southern Red
- Oak, Willow
- Pine, Eastern White

Bees
- Cherry, Black
- Locust, Black
- Locust, Bristly
- Locust, Honey
- Persimmon
- Plum, American
- Poplar, Yellow

Songbirds
- Apple, Crab
- Cedar, Eastern Red
- Cherry, Black
- Chinkapin, Alleghany
- Hawthorne, Washington
- Hazelnut
- Pawpaw
- Plum, American
- Redbud

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Key to Symbols

- ☼ Full Sun
- ◐ Sun/Part-Shade
- ● Shade Tolerant
- ⛢ Christmas Tree Species
- ✦ ATTENTION: Walnut trees are susceptible to Thousand Cankers Disease, which has been found in Virginia. See VDOF website for additional information.
- ✚ This species may be upgraded to "Whips" for taller seedlings, which could potentially meet the 4-foot standard for Conservation Reserve Enhancement Program plantings, at a an additional 20% cost. Available in limited quantities.
- ■ These species are available in containerized form.

FOR QUESTIONS OR TO ORDER SEEDLINGS, CONTACT:

Augusta Forestry Center
(540) 363-7000
P.O. Box 160, Crimora, VA 24431

ORDER ON-LINE AT www.BuyVaTrees.com

To Place an Order

- Orders are accepted from October to mid-April.
- Order on-line at www.BuyVaTrees.com; by mail using the included Form 12.2 Tree Seedling Catalog Order, or by phone at (540) 363-7000.
- Payment in full is required at time of order.

Shipping

- Seedlings are available for pick-up or delivery from February 19 to April 30 depending on weather conditions.
- All orders, except for containerized loblolly pine, made from this catalog or on-line will be shipped from the Augusta Forestry Center via United Parcel Service delivery.
- Containerized loblolly pine must be picked up at the Garland Gray Forestry Center.
- Pick-up is available at the Augusta Forestry Center free-of-charge.
- Shipping charge is 30 percent of the order total with a minimum shipping charge of $20.
- Specify a desired shipment date when placing order.
- All UPS orders are shipped from the Augusta Forestry Center on Mondays, Tuesdays and Wednesdays.

Sales Tax

- Virginia sales tax is 5.3% of the order subtotal.

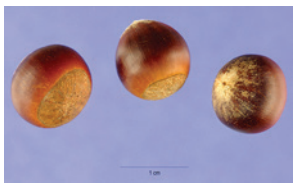
Tax Exempt

- Tax-exempt orders CANNOT be made on-line through the web store. For tax-exempt orders, mail a completed Form 12.2 Tree Seedling Catalog Order with a completed sales tax exemption form to the Augusta Forestry Center with payment. Sales tax exemption form must be completed in full, including tax exempt number. Blank sales tax exemption forms can be found at tax.virginia.gov.

Species (Scientific Name)		Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
							10	25	50	100	250	500	1000
Justin Funk, VDOF	**Apple, Common 1-0** *(Malus pumila)* Zone 4-7 ☼ Common apple is a small tree that can reach 25 feet in height with a crown spread of 25 feet. It grows in well-drained, moist soils. Showy, white, five-petaled blossoms, often tinged with pink, are found on the tree in late spring. The flowers are pollinated by bees and other insects. The fruits mature through the summer and become ripe and ready to eat in the fall. Ripe apples range in color from green to yellow to red or a mixture of these colors, and are eaten by a variety of birds and mammals. The wood is desirable for smokehouse kindling, and is excellent quality firewood.	★	★			8 - 14 in.	$20	$45	$75	$115	$150	$220	$300
Richard A. Howard Image Collection, Courtesy of Smithsonian Institution Simon Howden, FreeDigitalPhotos.net	**Apple, Crab 1-0** *(Malus baccata)* Zone 2-7 ☼ Crab apple is a short shrubby tree that reaches heights of 15 to 25 feet. It is valued for its fruit and flowers. It flowers in the early spring with beautiful white blooms. Many landscapers plant Crab Apple for the beauty of the spring blooms. The fruit is typically yellow in color and is ¼ to ½ inch in size (resembles a pea). The fruit is desired by many songbirds and mammals.	★	★			8 - 14 in.	$20	$45	$75	$115	$150	$220	$300

Species (Scientific Name)		Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
							10	25	50	100	250	500	1000
Justin Funk, VDOF Courtesy of Smithsonian Institution VDOF	**Birch, River 1-0** *(Betula nigra)* Zone 3-9 ☼◐ River birch reaches a mature size of 70 to 80 feet in height and 1 to 3 feet in diameter. Seldom harvested, it has been used in the manufacturing of inexpensive furniture, toys, basket hoops and turned articles. It is commonly planted for stream bank restoration and other erosion control situations. It is also an attractive ornamental tree. It is the only birch native to the Coastal Plain in the southeastern United States. Its habitat includes deep, rich soils on stream banks, pond and swamp edges.		★		★	12 - 20 in.	$20	$45	$75	$115	$150	$220	$300
John Seiler, Virginia Tech	**Buttonbush, Common 1-0** *(Cephalanthus occidentalis)* Zone 5-10 ☼◐ Common buttonbush reaches a mature size of 15 to 20 feet in height and 6 inches in diameter. This deciduous tree with an upright, multiple-branching shrub form has a fast growth rate. Buttonbush prefers clay, loamy moist but well-drained soils. White tubular flowers appear mid-summer and round clusters of nutlets mature in late summer to fall. The seed is eaten by waterfowl and browsed on by mammals. *Limited quantities available	★	★			12 - 20 in.	$20	$45	$75	$115	$150	$220	$300

Species (Scientific Name)		Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
							10	25	50	100	250	500	1000
Josh McLaughlin, VDOF	**Cedar, Eastern Red 1-0** *(Juniperus virginiana)* Zone 2-8 and ☼◐△ Eastern red cedar is a slow-growing conifer that can reach 65 feet in height and 1 to 2½ feet in diameter. It grows well in all soils especially poor soils, where the tree can be a big bush. The needles are sharp and 2 to 4 inches long. Pollination occurs in the late winter to early spring. The seed is berry like that looks blue to the eye. The seed is a very important food source for birds in the winter. The trees are dioecious, meaning male and female trees are separate and they need each other for pollination.	★		★	★	N/A		**Not Available This Year**					
John Seiler, Virginia Tech	**Cherry, Black 1-0** *(Prunus serotina)* Zone 3-9 and ☼◐ Black cherry is a fast-growing tree, reaching heights of 60 to 100 feet and one to four feet in diameter. This deciduous tree prefers clay, loamy, occasionally wet, well-drained soils. White, very showy flowers appear in early- to mid-spring, emitting a pleasant fragrance. The fruit becomes dark purple to almost black when ripe, maturing in summer. Black cherry is a valuable species; the wood is reddish brown, heavy, hard, strong and fine-grained and often used for furniture and interior finish. The fruit is an important food source for many birds and other wildlife, and is often used in jelly and wine.	★		★		12 - 20 in.	$20	$45	$75	$115	$150	$220	$300
Sonya Milstead Sonya Milstead	**Chestnut, Chinese 1-0** *(Castanea mollissima)* Zone 4-8 ☼ Chinese chestnut is a small tree that can reach 40 feet in height with a crown spread of 40 to 50 feet. Best growth is in full-day sun. Chinese chestnut is tolerant of some drought but prefers good soil that is loose, not dry, and not too wet. It can be used as a fruit tree, a shade tree or as a residential street tree. The edible nuts are suitable for human and wildlife consumption.	★				16 - 20 in.	$20	$45	$75	$115	$175	$230	$315

Species (Scientific Name)		Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
							10	25	50	100	250	500	1000
Justin Funk, VDOF Jeff McMillian, USDA-NRCS PLANTS Database  Steve Hurst, USDA-NRCS PLANTS Database	**Chinkapin, Allegheny 1-0** *(Castanea pumila)* Zone 5-9 ◐ Alleghany Chinkapin reaches a mature size of 15 to 30 feet in height and 1 foot in diameter. It is seldom harvested, but has occasionally been used for fence posts and railway ties. The sweet nuts are eaten by humans as well as a wide variety of wildlife, including woodpeckers, squirrels, jays and chipmunks. It is a large shrub or small tree often forming thickets and most commonly found on drier soils. *Limited quantities available	★	★			N/A	**Not Available This Year**						
Justin Funk, VDOF Justin Funk, VDOF	**Crape Myrtle 1-0** *(Lagerstroemia spp)* Zone 6-11 ☼◐ Crape Myrtle is a small to medium multiple trunk tree. It typically only reaches heights of 10 to 20 feet tall. This highly utilized landscape species is great for beautification. The flowers (mostly red to pink to white) bloom in the summer and persist for a long time. The blooms attractive bees and butterflies. The leaves provide a beautiful autumn color.					12 - 18 in.	$20	$45	$75	$115	$150	$220	$300

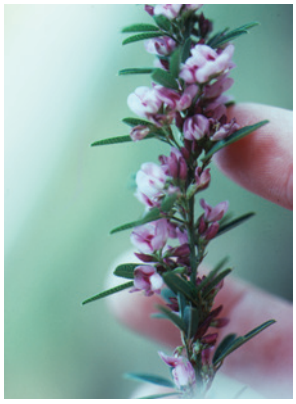
Species (Scientific Name)		Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
							10	25	50	100	250	500	1000
Sonya Milstead	**Cypress, Bald 1-0** *(Taxodium distichum)* Zone 4-11 ☼◐ Bald cypress reaches a mature size of 90 to 120 feet in height and 3 to 6 feet in diameter. A bald cypress may live more than 1,000 years and is one of the few deciduous conifers. It is used for exterior trim on buildings, green house planking, boat building, shingles, posts, poles and crossties. Cypress swamps provide important habitat for many wetland wildlife species. Cypress stands reduce flooding along rivers by slowing and absorbing water. Its habitat includes wet stream banks, wet bottomlands, swamps and other areas that usually flood for long periods of time.	★	★	★	★	14 - 20 in.	$20	$45	$75	$115	$150	$220	$300
John Seiler, Virginia Tech	**Dogwood, Gray 1-0** *(Cornus racemosa)* Zone 3-8 ☼◐ Gray dogwood is a small, slow-growing shrub that can reach a height of 6 feet. It has small white blooms set in clusters that mature in early summer. The small, white fruit develops in late summer to early fall and provides food to small animals and birds. It grows as a dense hedge that provides great cover for wildlife. This tree is very adaptable to many climatic conditions.	★				12 - 20 in.	$20	$45	$75	$115	$150	$220	$300
Richard A. Howard Collection, Courtesy of Smithsonian Institution Jeff McMillian, USDA-NRCS PLANTS Database	**Dogwood, Kousa 1-0** *(Cornus kousa)* Zone 5-8 ☼◐ Kousa dogwood is a slow-growing tree that will reach heights of 20 to 30 feet. Growth is best on moist, loamy, well-drained soil (not heavy clay) with mulch or leaf litter accumulated over the roots. The red fruits are edible, and they look like a big round raspberry. Birds devour the fruit quickly. Fall color varies from dull red to maroon. This species of dogwood is anthracnose resistant, and for this reason, kousa dogwood is being widely planted as an ornamental tree in areas affected by the disease.	★				12 - 20 in.	$20	$45	$75	$115	$150	$220	$300

Species (Scientific Name)		Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price 10	25	50	100	250	500	1000
John Seiler, Virginia Tech G. A. Cooper, Courtesy of Smithsonian Institution G. A. Cooper, Courtesy of Smithsonian Institution	**Dogwood, Red Osier 1-0** *(Cornus sericea)(stolonifera)* Zone 2-7 ☼◐ Red osier dogwood is a small- to medium-sized shrub forming thickets up to 15 feet tall but generally shorter. It is a low-growing shrub, reaching heights of 6 to 10 feet. It grows best in moist to somewhat wet loams. Uses include erosion control, stream bank protection and wildlife food. Fruit and twigs are used by several species of wildlife, such as robins, cedar waxwings, rabbits and deer. The red osier dogwood provides dense cover for a large number of wildlife species.	★	★			12 - 20 in.	$20	$45	$75	$115	$150	$220	$300
Courtesy of USDA-NRCS WVU Herbarium, Courtesy of Smithsonian Institution	**Dogwood, Silky 1-0** *(Cornus amomum)* Zone 4-8 ☼◐ Silky dogwood is a large shrub, often 6 to 10 feet in height. It performs best in soils that are moist, somewhat poorly drained, moderately acidic to neutral, and in areas that have medium to coarse soils. It is highly tolerant of shade but not of drought conditions. The primary use of this species is for field and farmstead windbreaks and wildlife borders. It is also being used with willows for stream bank protection. Other beneficial uses are for fish and wildlife habitat improvement, slope stabilization, borders and as an ornamental.	★	★			12 - 20 in.	$20	$45	$75	$115	$150	$220	$300

Species (Scientific Name)		Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
							10	25	50	100	250	500	1000
Gregg O'Donnell, VDOF Gregg O'Donnell, VDOF	**Dogwood, White 1-0** *(Cornus florida)* Zone 5-9 ☼◐ White dogwood is a small tree with a short trunk that branches low, producing a slightly rounded to flat-topped crown. This species will reach heights of 20 to 30 feet with a mature diameter of one to two feet, making it a attractive ornamental tree. Growth is best on well-drained, clay, loamy, sandy soils. Very small, inconspicuous flowers that are surrounded by four large white bracts appear in mid-spring. The red to brown wood is hard, strong and very close-grained. Although the fruits are poisonous if eaten by humans, more than 35 species of birds and many large and small mammals are known to eat them. Deer and rabbits browse the foliage and twigs. The white dogwood, otherwise known as flowering dogwood, is the state tree and state flower of Virginia.	★				12 - 20 in.	$20	$45	$75	$115	$150	$220	$300
John Seiler, Virginia Tech John Seiler, Virginia Tech John Seiler, Virginia Tech	**Elderberry, American 1-0** *(Sambucus Canadensis)* Zone 3-8 ☼◐ Elderberry is a small understory species that grows well in riparian woodlands, but can also grow as individuals in a woodland setting. They grow well on moist, well-drained sites. Elderberry can grow to be 6 to 14 feet tall and wide. Pollination occurs in the early summer by bees and native pollinators. Flowers will be big, beautiful white clusters in the early summer. In late summer to early fall, the plant with be covered with clusters of black berries that are 4 to 6 mm wide. The fruit is eaten by bear, game birds, small mammals and song birds. The stems and foliage are desired by deer.	★				12 - 20 in.	$20	$45	$75	$115	$150	$220	$300

Species (Scientific Name)		Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price 10	25	50	100	250	500	1000
Courtesy of Smithsonian Institution Robert H. Mohlenbrock, USDA-NRCS PLANTS Database / USDA SCS. 1991. Southern wetland flora: Field office guide to plant species. South National Technical Center, Fort Worth.	**Hawthorne, Washington 1-0** *(Crataegus phaenopyrum)* Zone 4-8 ☼ Washington Hawthorne grows 20 to 35 feet tall in a wide pyramidal shape. The tree has a rapid growth rate when young, slowing with age. It is tolerant of many different soil types. The small, white, abundant flowers produced in clusters in late spring are followed by showy orange to red fruit that persists into winter. It is an excellent species for wildlife. The fall leaf color is orange to red and can be quite striking. Used for buffer strips around parking lots or for median strip planting in the highway and as a residential street tree.	★	★			N/A	**Not Available This Year**						
Sonya Milstead Justin Funk, VDOF Sonya Milstead	**Hazelnut 1-0** *(Corylus Americana)* Zone 4-9 ☼◐ Hazelnut is a small shrub, often in clumps reaching 8 to 15 feet in height with an 8- to 12-foot spread. It makes a nice surprise in the shrub border since it goes unnoticed forming a green mass most of the year. It can also be planted along the foundation of a commercial building to soften the corners. It is important to provide moisture until the plant is established. Once established, it will survive and grow with little or no irrigation provided it is located in a moist area. It is as near to maintenance-free as any plant. Hazelnut produces excellent nuts, which are prized by deer, turkey and other wildlife.					12 - 18 in.	$20	$45	$75	$115	$175	$230	$315

Species (Scientific Name)		Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
							10	25	50	100	250	500	1000
Sonya Milstead Robert H. Mohlenbrock, USDA-NRCS PLANTS Database / USDA SCS. 1989. Midwest wetland flora: Field office illustrated guide to plant species. Midwest National Technical Center, Lincoln.	**Indigobush 1-0** *(Amorpha fruticosa)* Zone 4-9 ☼◐ Indigobush is a small shrub that can reach heights of 3 to 10 feet tall. It has a fast growth rate and can grow in any well-drained soil. It has a purplish blue bloom in the early spring. The flower attracts bees and native pollinators. The fruit is a small and short legume that is desired by game birds, song birds and small mammals. Indigobush can be used as a windbreak or an ornamental.	★	★			12 - 20 in.	$20	$45	$60	$65	$75	$95	$125

Species (Scientific Name)		Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
							10	25	50	100	250	500	1000
Justin Funk, VDOF Courtesy of USDA-NRCS  G. A. Cooper, Courtesy of Smithsonian Institution	**Lespedeza, Bicolor 1-0** *(Lespedeza bicolor)* Zones 4-8 ☼ Bicolor lespedeza was introduced primarily to provide legume food and cover to popular game animals. Target wildlife includes ringneck pheasants, bobwhite quail, cottontail rabbits and whitetailed deer. Honeybees are also attracted to their pinkish to purple flowers, which bloom in late summer when few other plants valuable to beekeepers are blooming. The masses of late summer blooms also make it a valuable landscaping plant for borders and hedges. Bicolor lespedeza is best used as field borders and along woodlands, on spoilbanks resulting from ditching and in small odd areas devoted to wildlife habitat improvement. Its mature height is 4 to 6 feet.	★				12 - 20 in.	$20	$45	$60	$65	$75	$95	$125

Species (Scientific Name)		Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
							10	25	50	100	250	500	1000
Ellen Powell, VDOF Courtesy of Smithsonian Institution	**Locust, Black 1-0** *(Robinia pseudoacacia)* Zone 4-8 ☼◐ Black locust reaches a mature size of 30 to 70 feet in height and 1 to 2 feet in diameter. It grows on a variety of sites, including disturbed areas, but grows best on moist loams of limestone origin. The wood is used extensively for fence posts, poles, mine timbers, split rails and decking, as well as for pulpwood and fuel. Sprouts and seedlings are important food for cottontail rabbits and deer. The flowers are an important nectar source for honey production. Black locust is a nitrogen fixer and is good for reclaiming mine sites and other disturbed lands.	★	★	★		12 - 20 in.	$20	$45	$60	$65	$75	$95	$125
John Seiler, Virginia Tech	**Locust, Bristly 1-0** *(Robinia hispida)* Zone 6-11 ☼ (can grow in Zones 3-5 but cold weather inhibits growth) Bristly Locust is a shrub that can reach heights of 8 to 12 feet. It grows well on soils with good drainage. Bristly Locust is a one of the best erosion control shrubs, especially for steep sites. This plant is a nitrogen fixation plant, which will help poor soils. The attractive pink flowers, which bloom in late spring to early summer, attract bees and butterflies.	★	★	★		12 - 20 in.	$20	$45	$60	$65	$75	$95	$125

Species (Scientific Name)		Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
							10	25	50	100	250	500	1000
Dr. John Seiler Virginia Tech	**Locust, Honey 1-0** *(Gleditsia triacanthos)* Zone 3-9 ☼ Honey locust is a fast-growing tree that can reach heights of 30 to 70 feet with a canopy spread of 30 to 70 feet. It can tolerate wide range of soils from acidic, alkaline, dry or moist. Honey bees are attracted to the flowers during the spring time as a great nectar source. Honey Locust produces big seed pods with sweet seeds that are cherished by livestock, rabbits, deer and squirrels. The term "Honey" refers to the sweet substance found in the seed pods.	★	★	★		10 - 18 in.	$20	$45	$60	$65	$75	$95	$125
Janet Muncy, VDOF Janet Muncy, VDOF Janet Muncy, VDOF	**Maple, Red 1-0** *(Acer rubrum)* Zone 3-9 ☼◐ Red maple reaches a mature size of up to 90 feet in height and 2½ feet in diameter. It grows on a variety of sites, from dry ridges to swamps. The light cream-colored wood is used for furniture, turnery, woodenware and paper pulp. Red maple can be tapped for syrup-making. The fruit and buds are a primary food source for gray squirrels in late winter and early spring. Birds and mice eat the seeds, and deer browse the young sprouts. Red maple is a popular shade and ornamental tree, with brilliant fall color. *Limited quantities available	★	★	★		4 - 16 in.	$20	$45	$75	$115	$150	$220	$300

Species (Scientific Name)		Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
							10	25	50	100	250	500	1000
Josh McLaughlin, VDOF	**Maple, Silver 1-0** *(Acer saccharinum)* Zone 3-9 ☼◐ Silver Maple is a tall, fast-growing multi-branched tree that can reach heights of 50 to 80 feet. It is often planted in hedge rows, wetlands and riparian areas. It flowers in the spring in small, dense reddish clusters. The seed are samaras (winged) and mature in the early summer. The samaras are the biggest of any native maple in Virginia. Wildlife use varies from squirrels eating buds in the early spring; deer eating the bark in the winter, and the trunk tends to make cavities that provide shelter for tree-dwelling mammals, owls and woodpeckers.	★		★	★	12 - 20 in.	$20	$45	$75	$115	$150	$220	$300
Justin Funk, VDOF Justin Funk, VDOF	**Maple, Sugar 1-0** *(Acer saccharum)* Zone 3-8 ☼◐ Sugar maple reaches a mature size of 70 to 100 feet in height and 2 to 3 feet in diameter. It is a fairly large tree with dense, oval crown, and grows in clay, loam and sand. The pale brown- or pink-colored wood is hard, heavy, strong and close-grained, and is used for flooring, furniture, veneer and novelties. The trees are tapped for their sweet syrup. Birds and small mammals eat the seeds; rabbits, deer and squirrels browse the twigs, and sapsuckers ring the tree with holes and return to feed on the sap and insects it attracts. Sugar maple is a popular shade and ornamental tree, with brilliant fall color.	★		★	★	4 - 10 in.	$20	$45	$75	$115	$150	$220	$300
John Seiler, Virginia Tech John Seiler, Virginia Tech	**Mulberry, Red 1-0** *(Morus rubra)* Zone 5-9 ☼◐ Red mulberry reaches a mature size of 30 to 60 feet in height and 1 to 2 feet in diameter. Its habitat includes floodplains and low, moist slopes. The dark brown wood is light and soft, not strong, but quite durable. It was traditionally used for fencing, barrels, interior finish and agricultural tools. Produces fruit resembling a blackberry that is red when immature and turning deep purple when ripe in mid-summer. The fruit is sweet, juicy and edible and is a favorite food for squirrels, opossums, raccoons, turkeys and many songbirds.	★	★			N/A		**Not Available This Year**					

Species (Scientific Name)		Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price 10	25	50	100	250	500	1000
Sonya Milstead	**Oak, Black 1-0** *(Quercus velutina)* Zone 3-9 ☼ Black oak reaches a mature size of 50 to 80 feet in height and 1 to 2½ feet in diameter. It is commonly found in dry woods and along ridges, but grows best on rich, well-drained soils. The wood is hard, heavy, strong, coarse-grained and red-brown with a thin outer edge of paler sapwood. It is used for flooring, furniture, interior finish, fence posts and railroad ties. The acorns are a valuable food source for wildlife.	★		★		12 - 20 in.	$20	$45	$75	$115	$175	$230	$315
	Oak, Black 2-0 *(Quercus velutina)*	★		★		20 - 30 in.	$30	$65	$110	$165	$250	$330	$450
Josh McLaughlin, VDOF	**Oak, Bur 1-0** *(Quercus macrocarpa)* Zone 4-8 ☼ Bur Oak is a medium to large tree that grows 70 to 80 feet tall but can reach 100 feet or more. The trunk can become massive at 2 to 3 feet in diameter. Blooms appear after leaves emerge; after pollination, acorns start to form. Acorns are ¾ to 1½ inch long and ½ inch across; they are highly desired by many birds and mammals. The wood is valued for cabinetry, oak barrels and hardwood flooring.	★		★		N/A	**Not Available This Year**						
Robert H. Mohlenbrock, USDA-NRCS PLANTS Database / USDA NRCS. 1995. Northeast wetland flora: Field office guide to plant species. Northeast National Technical Center, Chester.	**Oak, Chestnut 1-0** *(Quercus prinus)* Zone 4-8 ☼ Chestnut oak reaches a mature size of 50 to 70 feet in height and 2 to 3 feet in diameter. The chestnut oak attains best growth in well-drained coves and stream sides, but is commonly found on dry, rocky slopes and ridges. The wood is similar to, and often marketed as, white oak, and is used for lumber, beams, railroad ties, flooring, furniture and planking. The large acorns are sweet and are eaten by a variety of wildlife.	★		★		12 - 20 in.	$20	$45	$75	$115	$175	$230	$315
	Oak, Chestnut 2-0 *(Quercus prinus)*	★		★		18 - 30 in.	$30	$65	$110	$165	$250	$330	$450

Species (Scientific Name)		Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
							10	25	50	100	250	500	1000
VDOF	**Oak, Northern Red 1-0** *(Quercus rubra)* Zone 3-7 ☼ Northern red oak reaches a mature size of 70 to 90 feet in height and 2 to 3 feet in diameter. It achieves best growth on north and east slopes, but is commonly found on deep, well-drained, loamy soils and fertile coves. The wood is hard and strong, and is used for paneling, furniture, cabinets and flooring. The acorns provide food for many mammals and birds. The tree's symmetrical shape and fall color make it a desirable landscape tree. Northern red oak is one of the most important timber trees in the eastern United States.	★		★		12 - 20 in.	$20	$45	$75	$115	$175	$230	$315
VDOF	**Oak, Northern Red 2-0 +** *(Quercus rubra)*	★		★		20 - 38 in.	$30	$65	$110	$165	$250	$330	$450
Josh McLaughlin, VDOF	**Oak, Overcup 1-0** *(Quercus lyrata)* Zone 5-9 ☼◐ Overcup Oak is in the white oak family and can grow to heights of 60 to 100 feet. They are often a short trunk, open and have an irregular crown. They grow well in bottoms near streams and rivers; they can also tolerate flood waters. Overcup Oak blooms in the spring with male and female flowers. The tree will start to produce acorns within 25 to 30 years; with a good crop every 3 to 4 years. Overcup Oak is planted to improve riparian restoration and for wildlife enhancement. The acorns are desired by deer, ducks, turkey and small mammals.		★			12 - 18 in.	$20	$45	$75	$115	$175	$230	$315

Species (Scientific Name)		Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
							10	25	50	100	250	500	1000
Janet Muncy, VDOF	**Oak, Pin 1-0** *(Quercus palustris)* Zone 4-8 ☼ Pin oak reaches a mature size of 50 to 70 feet in height and 1 to 2 feet in diameter. The wood is hard and heavy, but somewhat knotty. It is used for rough lumber and firewood. The acorns are eaten by waterfowl, turkeys, jays, woodpeckers and squirrels. Pin oak is a popular landscape tree because of its fast growth, ease of transplanting, tolerance of urban stresses and good fall color. It grows along poorly drained river edges and floodplains, typically on clay soils.	★	★	★		12 - 20 in.	$20	$45	$75	$115	$175	$230	$315
Janet Muncy, VDOF	**Oak, Pin 2-0 +** *(Quercus palustris)*	★	★	★		20 - 38 in.	$30	$65	$110	$165	$250	$330	$450

Species (Scientific Name)		Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
							10	25	50	100	250	500	1000
Jim McGlone, VDOF Warren Coburn, VDOF Courtesy of USDA-NRCS	**Oak, Sawtooth 1-0** *(Quercus acutissima)* Zone 5-9 ☼ Sawtooth oak is an attractive, large, deciduous tree, 50 feet in height or taller with a rounded, broad, pyramidal shape. New spring leaves are an attractive, bright yellow-green and fall color varies from dull yellow to brown. It is a vigorous-growing tree that produces acorns at age 15 or slightly before. The acorns of sawtooth oak are large (1-inch long) and are produced in large quantities in the fall. They are quite popular with wildlife. Sawtooth oak prefers a well-drained, acid soil but will adapt to most soils except highly alkaline. Trees grow best in well-drained soil in the full sun. Irrigation helps trees become established, but, once established, they grow very fast without irrigation.	★	★			12 - 20 in.	$20	$45	$75	$115	$175	$230	$315
Josh McLaughlin, VDOF	**Oak, Sawtooth 'Gobbler' 1-0** *(Quercus acutissima 'Gobbler')* Zone 5-9 ☼ Sawtooth 'Gobbler' oak is an attractive, large, deciduous tree, 50 feet in height or taller with a rounded, broad, pyramidal shape. New spring leaves are an attractive bright yellow-green, and fall color varies from dull yellow to brown. It is a vigorous-growing tree that produces acorns at age 15 or slightly before. The acorns of saw tooth 'Gobbler' oak are smaller than the regular Sawtooth Oak (½-inch long) and are produced in large quantities in the fall. They are quite popular with wildlife. Sawtooth oak prefers a well-drained, acid soil but will adapt to most soils except highly alkaline. Trees grow best in well-drained soil in the full sun. Irrigation helps trees become established, but ,once established, they grow very fast without irrigation.	★				12 - 20 in.	$20	$45	$75	$135	$200	$275	$360

Species (Scientific Name)		Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
							10	25	50	100	250	500	1000
John Seiler, Virginia Tech John Seiler, Virginia Tech	**Oak, Southern Red 1-0** *(Quercus falcata)* Zone 6-9 ☼ Southern red oak is a relatively fast-growing oak and reaches a mature size of 70 to 80 feet in height and 3 to 4 feet in diameter. It is prevalent on dry, upland sites in warmer climates. As with many other oaks, the acorns provide an abundant food source for wildlife during the fall months. The wood is very strong and coarse-grained making it useful for making furniture or burning for firewood.	★		★		8 - 14 in.	$20	$45	$75	$115	$175	$230	$315
John Seiler, Virginia Tech John Seiler, Virginia Tech	**Oak, Swamp Chestnut 1-0** *(Quercus michauxii)* Zone 4-8 ☼ Swamp chestnut oak reaches a mature size of 80 to 100 feet in height and 3 to 4 feet in diameter. It grows mostly on bottomland sites or on the terraces of streams and creek banks. It also prefers well-drained soil. This oak is used for lumber, cooperage, fenceposts and firewood. The acorns also provide an abundance of nutrition for wildlife during the fall.. *Limited quantities available	★	★	★		12 - 20 in.	$20	$45	$75	$115	—	—	—

Species (Scientific Name)		Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price 10	25	50	100	250	500	1000
John Seiler, Virginia Tech	**Oak, Swamp White 1-0** *(Quercus bicolor)* Zone 4-8 ☼ Swamp white oak grows best in full sun with wet acidic soil. It has the potential to grow 60 to 80 feet tall with an irregular-shaped crown. It does not grow well in permanent flooded areas but grows great in riparian areas. Acorns are produced in the fall that are very sweet and are desired squirrels, deer, bear, turkey and many birds. Being a white oak species, swamp white oak lumber is important and desired..	★	★	★		12 - 20 in.	$20	$45	$75	$115	$175	$230	$315
J. S. Peterson, Courtesy of Smithsonian Institution	**Oak, White 1-0** *(Quercus alba)* Zone 3-9 ☼ White oak reaches a mature size of 80 to 100 feet in height and 3 to 4 feet in diameter. The white oak can grow on a wide variety of upland sites, but attains best growth on deep, well-drained loamy soils. The wood is used for lumber, barrels, furniture, tools, interior finish, flooring and fuel. The acorns are sweet and a preferred food of deer, bear, turkeys, squirrels and other wildlife. White oak makes an impressive ornamental tree for large landscapes.	★	★	★		6 - 18 in.	$20	$45	$75	$115	$175	$230	$315
	Oak, White 2-0 *(Quercus alba)*	★	★	★		18 - 36 in.	$30	$65	$110	$165	$250	$330	$450
Sonya Milstead Sonya Milstead	**Oak, Willow 1-0** *(Quercus phellos)* Zone 5-9 ☼ Willow oak reaches a mature size of 50 to 80 feet in height and 1 to 2½ feet in diameter. Its habitat includes lowlands; river and swamp borders, and rich, sandy uplands. The wood is used for crossties, rough construction and pulpwood. The tree produces good acorn crops, making it a valuable and dependable wildlife food source. Willow oak is long lived and fast growing, and it is widely planted as a landscape tree.	★	★	★		8 - 16 in.	$20	$45	$75	$115	$175	$230	$315

Species (Scientific Name)		Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price 10	25	50	100	250	500	1000
John Peterson, Virginia Tech	**Pawpaw 2-0** *(Asimina triloba)* Zone 5-9 ☼◐ Pawpaw is a small tree that grows up to 35 feet in height. The leaves are large and turn a rusty yellow during the fall that be spotted from a distance. The fruit is large with a yellowish-green color. The fruit is edible and has big seeds inside and are consumed by humans and a variety of mammals. Deer tend to leave the tree alone because of the natural insecticide (acetogenins) that grows in the leaves and twigs.	★	★	★	★	4 - 18 in.	$30	$65	$110	$165	$250	$330	$450
Josh McLaughlin, VDOF	**Pear, Common 'Bartlett' 1-0** *(Pyrus communis 'Bartlett')* Zone 5-7 ☼◐ Bartlett pear is a small fruit tree that can reach heights 12 to 20 feet and width. Bartlett pear grows well in moist but well-drained, slightly acidic soil. Other soils can produce a lighter crop. It produces white flowers in the early spring. The fruit is a large bell shape, yellow in color with the flesh being juicy and white. The fruit is desired by humans, deer and other wildlife. *Limited quantities available	★				10 - 18 in.	$20	$45	$75	$115	$175	—	—
Justin Funk, VDOF G. A. Cooper, Courtesy of Smithsonian Institution	**Persimmon 1-0** *(Diospyros virginiana)* Zone 4-9 ☼ Persimmon reaches a mature size of 20 to 60 feet in height and 1 to 2 feet in diameter. It grows on a wide variety of sites, from sandy woods to moist river bottoms to rocky slopes. The wood is very hard and has been used for spindles, shutters, golf club heads and other items that require shock-resistance. The fruit is eaten by humans, as well as by opossums, raccoons, skunks, foxes and many songbirds.	★	★	★		12 - 18 in.	$20	$45	$75	$115	$150	$220	$300

Species (Scientific Name)		Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
							10	25	50	100	250	500	1000
John Campbell, VDOF John Campbell, VDOF Janet Muncy, VDOF	**Pine, Eastern White 2-0** *(Pinus strobus)* Zone 3-7 ☼◐⚠ Our 2-year-old eastern white pine reaches a mature size of 80 to 100 feet in height and 2 to 3 feet in diameter, but can reach 200 feet in height. The eastern white pine is the largest conifer in eastern North American. The wood is used for construction lumber, cabinet making, furniture and interior finish. White pines are also grown for Christmas trees and are planted to stabilize the soil on strip-mined lands. Commonly found on dry, sandy or rocky ridges, but grows best on moist, sandy loam soils. This conifer provides thermal cover in winter for many species of animals and birds.	★		★		8 - 14 in.	$20	$45	$52	$58	$64	$70	$105

Species (Scientific Name)		Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
							10	25	50	100	250	500	1000
Janet Muncy, VDOF	**Pine, Loblolly Premium Open Pollinated (OP) 1-0** *(Pinus taeda)* Zone 6-9 ☼ Our "premium" loblolly pine is a combination of our 3rd and 4th best producers. Growth and yield show a 35 percent increase in production over unimproved seedlings. We are a member of The Cooperative Tree Improvement Program at NC State, which started the breeding effort for loblolly pine in 1956. Through the application of traditional breeding methods used in agronomic and horticulture crops for decades, tree breeders have developed families or varieties of loblolly pine that produce 50 percent more wood per acre than what was available 40 years ago. These families are more resistant to fusiform rust disease; have better wood quality due to enhancement of straightness and disease resistance, and are widely adapted to a range of site types and forest management regimes.	★		★		8 - 12 in.	—	—	$40	$45	$50	$55	$75
Janet Muncy, VDOF	**Pine, Loblolly Elite Open Pollinated (OP) 1-0** *(Pinus taeda)* Zone 6-9 ☼ Our "elite" loblolly pine includes the best genetics available for Virginia growing conditions. As the name suggests, it includes families that display superior performance. We took some of our top producers and combined them into one seed lot. The Elite shows a 60 percent gain in growth and yield over unimproved seedlings. The price reflects the limited quantity available for sale. These seedlings are well worth the investment!	★		★		8 - 12 in.	—	—	$45	$50	$55	$65	$85
G. A. Cooper, Courtesy of Smithsonian Institution	**Pine, Loblolly Virginia's Best Open Pollinated (OP) 1-0** *(Pinus taeda)* Zone 6-9 ☼ Given the increased demand for quick returns, we have isolated our top-rated family to sell as a separate seed lot. This family has been extensively tested in Virginia and out-competes all other families within our genetic pool. Growth and yield testing has shown the potential for gains up to 65 percent above unimproved seedlings. For landowners managing timber for income, this offering was created for you!	★		★		8 - 12 in.	—	—	$65	$70	$75	$85	$105

Species (Scientific Name)		Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
							10	25	50	100	250	500	1000
Jerre Creighton, VDOF	**Pine, Loblolly Control Pollinated (CP) 1-0** *(Pinus taeda)* Zone 6-9 ☼ Control mass-pollinated seedlings are a labor-intensive practice involving isolating female flowers prior to maturation to ensure the paternal DNA of the offspring. Essentially, after the controlled pollination has taken place, we will have seed with known parents. The testing on these seedlings has proven to be more accurate in rating growth potential. Even though the pollination is controlled, we still have considerable diversity within this seed lot. Our tree improvement personnel were able to cross several families this year, and we combined these into one seed lot. The outcome will be a 90 percent gain above unimproved seedlings.	★		★		8 - 12 in.	—	—	$80	$90	$95	$130	$135
Justin Funk, VDOF	**Pine, Longleaf Containerized 1-0 ■** *(Pinus palustris)* Zone 7-9 ☼ CONTAINERIZED SEEDLINGS. Virginia longleaf pine is a medium- to large-size conifer reaching heights of 80 feet or more to 2 feet in diameter. The needles are the longest of the southern pines extending out to 15 inches on average. Although once found scattered throughout southeastern Virginia, the species has all but disappeared from the landscape. There are only a few, small native stands of longleaf pine remaining in Virginia. This species prefers well-drained sandy soils throughout coastal Virginia. The wood is used for dimensional lumber, paper and poles. Longleaf pine is also the preferred habitat of the red cockaded woodpecker that is listed as an endangered species. *Limited quantities available	★		★		N/A		**Not Available This Year**					

Species (Scientific Name)		Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
							10	25	50	100	250	500	1000
John Seiler, Virginia Tech	**Pine, Pitch Loblolly 1-0** *(Pinus rigida x Pinus taeda)* Zone 6-9 ☼ Our pitch loblolly pine can reach mature heights of 40 to 60 feet. They are a fast-growing tree that can have a crown spread of 30 to 40 feet. Pitch loblolly is very adaptable for any soil but prefer a little moisture. This species will grow in cooler climates where other southern pines will not. A great timber species for the hardiness zones of 4 to 7. Pitch loblolly is a great species to provide cover for songbirds and upland game birds.	★		★		N/A	Not Available This Year						
Richard A. Howard Image Collection, Courtesy of Smithsonian Institution Janet Muncy, VDOF	**Pine, Scotch 2-0** *(Pinus sylvestris rhodopaea)* Zone 4-7 ☼ ⚠ Scotch pine is a medium-sized tree reaching up to 90 feet tall. Typically pyramidal when young, becoming more rounded and open with age. Prefers moist, well-drained soils, but will tolerate drier sites. Used as an ornamental landscape tree for homes and public grounds. Orange, peeling bark provides visual accents. Extensively planted for Christmas trees, and provides a nesting site and winter cover for wildlife.	★		★		8 - 16 in.	$20	$45	$50	$55	$65	$85	$120

Species (Scientific Name)		Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
							10	25	50	100	250	500	1000
Justin Funk, VDOF Justin Funk, VDOF	**Pine, Shortleaf 1-0** *(Pinus echinata)* Zone 6-9 ☼⚠ Shortleaf pine reaches a mature size of 80 to 100 feet in height and 2 to 3 feet in diameter. It is used largely for interior and exterior finishing, flooring, general construction, veneers, paper pulp and poles. Shortleaf pine produces high-quality lumber. It grows best on deep, well-drained soils, but tolerates nutrient-deficient sites.			★		6 - 10 in.	$20	$45	$65	$70	$75	$95	$115
Sonya Milstead Warren Coburn, VDOF	**Pine, Virginia 1-0** *(Pinus virginiana)* Zone 4-8 ☼⚠ Virginia pine reaches a mature size of 50 to 80 feet in height and 12 to 14 inches in diameter. The lumber is used for rough construction but warps easily with alternate wetting and drying. The wood has a very long fiber and makes excellent paper pulp. Small songbirds eat the seeds and may roost in thick stands of young pine. Virginia pine's tolerance for poor soil makes it suitable for reclaiming strip-mined lands. Its habitat includes various well-drained soils, and it can tolerate eroded and dry soil.	★	★	★		6 - 10 in.	$20	$45	$50	$55	$60	$65	$75
John Seiler, Virginia Tech	**Plum, American 1-0** *(Prunus americana)* Zone 5-9 ☼◐ Wild Plum is a shrub or small tree reaching up to 20 feet tall and 20 feet wide in an irregular crown shape. In full sun, it will spread shoots to form dense cover that is important songbird nesting and cover for other wildlife. In early to mid-spring, small white blossoms with orange anthers will appear. In late summer, bright red 1 to 1½ inch plums will provide excellent food for wildlife. Fruit can be processed as preserves and jellies. Wild Plum requires minimal amounts of water to grow. *Limited quantities available	★	★			12 - 20 in.	$20	$45	$75	$115	$150	$220	$300

Species (Scientific Name)		Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price 10	25	50	100	250	500	1000
John Seiler, Virginia Tech	**Plum, Chickasaw 1-0** *(Prunus angustifolia)* Zone 5-9 ☼◐ Chickasaw Plum is a shrub or small tree reaching up to 20 feet tall and 20 feet wide in an irregular crown shape. In full sun it will spread shoots to form dense cover that is important songbird nesting and cover for other wildlife. In early to mid-spring small white blossoms with orange anthers will appear. In late summer bright red 1 to 1½ inch plums will provide excellent food for wildlife. Fruit can be processed as preserves and jellies. Chickasaw Plum requires minimal amounts of water to grow.	★	★			N/A		Not Available This Year					
Courtesy of Smithsonian Institution Tom Barnes, University of Kentucky	**Poplar, Yellow 1-0** *(Liriodendron tulipifera)* Zone 4-9 ☼ Yellow-poplar reaches a mature size of 90 to 110 feet in height and 2 to 3 feet in diameter, but can reach nearly 200 feet in height and 10 feet in diameter. Its habitat includes various moist, well-drained sites statewide, but it attains best growth on deep moist soils along streams and in lower mountain coves. The wood is used for lumber, trim, veneers, flake and chip boards, plywood, core stock of furniture, paper pulp and fuel. Sprouts and buds are a major food of deer, and birds and squirrels eat the seeds. The flowers are an important nectar source for honey production. Yellow-poplar makes an impressive shade tree for large landscapes.	★		★	★	14 - 22 in.	$20	$45	$75	$115	$150	$220	$300
R. A. Seelig, Courtesy of Smithsonian Institution VDOF	**Redbud 1-0** *(Cercis canadensis)* Zone 4-9 ☼◐ Eastern redbud reaches a mature size of 15 to 30 feet in height and 6 to 10 inches in diameter. It grows on moist, well-drained woodlands. The wood is heavy, hard, not strong and rich, dark brown in color. Some birds and mammals eat the seeds. Redbud is planted as an ornamental tree suitable for small landscapes.	★				8 - 16 in.	$20	$45	$75	$115	$175	$230	$300

Species (Scientific Name)		Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
							10	25	50	100	250	500	1000
Justin Funk, VDOF	**Spruce, Norway 2-0** *(Picea abies)* Zone 3-7 Norway spruce can grow 80 to 100 feet tall and spread 25 to 40 feet. It is best used as a specimen in a lawn area or as a wind break or screen, planted on 20-foot-centers. Also used for Christmas tree production. Rockefeller Center in New York City erects a Norway spruce each Christmas next to the skating rink and decorates it for the holiday season. Norway spruce tolerates most soils if moist and transplants easily if balled and burlapped or potted. Trees subjected to drought are much happier if they receive periodic irrigation although they tolerate drought well.			★		N/A		Not Available This Year				
Smithsonian Institution, USDA-NRCS PLANTS Database	**Spruce, Norway 3-0** *(Picea abies)*			★		N/A		Not Available This Year				
Janet Muncy, VDOF													
John Campbell, VDOF													

Species (Scientific Name)		Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price						
							10	25	50	100	250	500	1000
Justin Funk, VDOF Larry Allain, USGS National Wetlands Research Center / USDA-NRCS PLANTS Database	**Sycamore 1-0** *(Platanus occidentalis)* Zone 4-9 ☼ Sycamore reaches a mature size of 80 to 100 feet in height and 3 to 4 feet in diameter, but can reach 150 feet in height and 10 feet in diameter. Its habitat includes stream banks and rich bottomlands. The wood is used for chopping blocks, furniture, interior finish, particleboard, fiberboard, paper pulp and biomass for energy production. Songbirds eat the seeds. Sycamore's distinctive bark makes it an attractive tree for large landscapes.	★	★	★	★	12 - 18 in.	$20	$45	$75	$115	$150	$220	$300
Herman, D.E., et al. 1996. North Dakota tree handbook. USDA NRCS ND State Soil Conservation Committee; NDSU Extension and Western Area Power Administration, Bismarck.	**Walnut, Black 1-0** ✦ *(Juglans nigra)* Zone 4-9 ☼ Black walnut reaches a mature size of 50 to 90 feet in height and 2 to 3 feet in diameter. The heartwood is heavy, hard and strong, with a rich chocolate-brown color of superior quality and value. It is prized for veneer, fine furniture, paneling, cabinetwork and gun stocks. The nut shells are ground into an abrasive cleaning agent for jet engines, filler for dynamite, a filter agent in smokestacks and a flour-like carrying agent for insecticides. Squirrels, birds and people eat the sweet, oily nuts. Its habitat includes deep, well-drained soils, and it grows best on the lower north- or east-facing slopes.	★	★	★	★	12 - 20 in.	$20	$45	$75	$115	$175	$230	$315

A New Product Line at Garland Gray Forestry Center in Sussex County – Containerized Loblolly Pine

Many landowners across Virginia are starting to look for ways to accelerate early growth in their pine plantations and containerized loblolly may be a great way to do that. Container Loblolly seedlings grow at a rapid pace when planted at the correct time. The best time to plant bare-root seedlings in Virginia is February to March because of cold weather. However, container seedlings are best planted in the fall and the overall planting window is much more extended. Pristine roots, larger seedling size, intact root ball and earlier planting all contribute to rapid growth.

**All container seedlings will be packaged by November 15th and will need to be picked up by mid-December.

Containerized Tree Species *(Scientific Name)*		Wildlife Food/Habitat	Wetland/Riparian	Forest Products	Not Preferred by Deer	Seedling Height	Quantity/Price 334	Quantity/Price 1000
Janet Muncy, VDOF	**Pine, Loblolly Virginia's Best Open Pollinated (OP) Containerized 1-0 ■** *(Pinus taeda)* Zone 6-9 ☼ Given the increased demand for quick returns, we have isolated our top-rated family to sell as a separate seed lot. This family has been extensively tested in Virginia and out-competes all other families within our genetic pool. Growth and yield testing has shown the potential for gains up to 65 percent above unimproved seedlings. For landowners managing timber for income, this offering was created for you!	★		★		8 - 12 in.	$65	$195
Jerre Creighton, VDOF	**Pine, Loblolly Control Pollinated (CP) Containerized 1-0 ■** *(Pinus taeda)* Zone 6-9 ☼ Control mass-pollinated seedlings are a labor -intensive practice involving isolating female flowers prior to maturation to ensure the paternal DNA of the offspring. Essentially, after the controlled pollination has taken place, we will have seed with known parents. The testing on these seedlings has proven to be more accurate in rating growth potential. Even though the pollination is controlled, we still have considerable diversity within this seed lot. Our tree improvement personnel were able to cross several families this year, and we combined these into one seed lot. The outcome will be a 90 percent gain above unimproved seedlings.	★		★		8 - 12 in.	$75	$225

Specialty Packs & Seed Mixes		Contents	Price
Janet Muncy, VDOF	**Fall Color Seedling Pack** *Beautify your property with a great mix of the favorite fall colors of Virginia.*	Contains these species for a total of 25 Seedlings: 5 Maple, Sugar 1-0 10 Oak, Pin 1-0 10 Poplar, Yellow 1-0	$50.00/25-pack
Janet Muncy, VDOF	**Five-By-Five Select Seedling Pack** *(Each species is in 5-packs.)* *Select fiver different species for a total of 25 seedlings. Create a package that meets your property goals.*	Select five (5) species for a total of 25 Seedlings: Oak, N. Red 1-0 Oak, Sawtooth 1-0 Oak, White 1-0 Pine, Loblolly Orchard Mix OP 1-0 Pine, Scotch 2-0 Pine, Shortleaf 1-0 Pine, Virginia 1-0 Pine, Eastern White 2-0	$50.00/25-pack
Bernard Rose, VDOF	**Pollinator Seedling Pack** *(Each species is in 25-packs.)* *This group of seedlings will produce a consistent source of nutrition and offer a substantial nectar flow for honeybees and other native pollinators.*	Contains these species for a total of 125 Seedlings: 25 Locust, Black 1-0 25 Plum, American 1-0 25 Cherry, Black 1-0 25 Persimmon 1-0 25 Poplar, Yellow 1-0	$125.00/125-pack
Josh McLaughlin, VDOF	**Quail Habitat Seedling Pack** *(Suitable for 1/4 acre, which can sustain one covey of quail.)* *The quail pack is designed to create a small area d devoted to starting quail habitat. We recommend you plant the seedlings two to three feet apart.*	Contains these species for a total of 150 Seedlings: 50 Locust, Bristly 1-0 50 Indigobush 1-0 50 Lespedeza, Bicolor 1-0	$150.00/150-pack
Josh McLaughlin, VDOF	**Riparian Buffer Starter Seedling Pack** *(Suitable for planting or replanting one acre. For planting in larger areas, contact your local forester.)*	Contains these species for a total of 300 Seedlings: 50 Birch, River 1-0 50 Cypress, Bald 1-0 50 Oak, Pin 1-0 100 Pine, Shortleaf 1-0 50 Sycamore 1-0	$250.00/300-pack
Janet Muncy, VDOF	**Wildlife Seedling Packs** *This pack is the perfect way to start a food plot for all your wildlife needs. The pack contains soft mass and hard mass to attract deer, turkey and bear in the fall.*	Contains these species for a total of 100 Seedlings: 5 Plum, American 1-0 10 Chestnut, Chinese 1-0 25 Apple, Common 1-0 25 Lespedeza, Bicolor 1-0 25 Oak, Sawtooth 1-0 10 Persimmon 1-0 (For larger plantings, contact your local forester.)	$125.00/100-pack

Form 12.2
09/01/2016

VIRGINIA DEPARTMENT OF FORESTRY

TREE SEEDLING CATALOG ORDER

SECTION 1 – Customer Information

Landowner Name: _____
Print Clearly

Applicant Address: _____
☐ Residential Address — Street Address or Rural Route and Box Number (PO Box is NOT Acceptable)
☐ Business Address — City: _____ State: _____ Zip: _____

Home Phone: _____ Work Phone: _____

E-mail: _____

Requested Shipping Date: _____ (We ship on Monday, Tuesday, and Wednesday from January through mid-April.)

VDOF Use Only
Order Number
Receipt Number
Region
County

SECTION 2 – Order Information

Quantity	Description (Kind of Trees, Seed or Package)	Price Per Unit	Total Item Cost

Subtotal:	
Sales Tax (5.3% of Order Subtotal) [Tax-exempt orders must submit a completed sales tax exemption (i.e. ST-18; blank sales tax exemption forms can be found at tax. Virginia.gov).]	
Shipping (30% of Order Subtotal; $15 minimum):	
Total Amount Due (Payment must be enclosed at the time of order):	

SECTION 3 – Payment Information

- Make check payable to "State Forester".
- No refunds after May 1st.
- A $20.00 service charge will be applied to all refunds except those caused by the nurseries' inability to deliver ordered seedlings.
- If seedlings do not arrive in good condition, (i.e. dry, damaged or diseased), claims must be made by telephone or in writing within 7 days of receipt. All unsatisfactory or rejected goods must be held for our advice or disposition. It is agreed between the purchaser and the Department of Forestry that our liability will not exceed the original purchase price of the product. The Department of Forestry assumes no responsibility or liability for the planting of any tree seedlings and in the sale thereof, makes no warranties, expressed or implied, of merchantability or fitness for a particular purpose and makes no warranties regarding the survival or rate of growth of any seedlings.

☐ I have enclosed a check made payable to "State Forester".

☐ I hereby authorize the Virginia Department of Forestry to charge my credit card.

☐ Visa ☐ Mastercard ☐ Discover Signature: _____

Credit Card: _____ _____ _____
Number (Credit card will be charged on the date of the order.) Security Code (3 digits) Expiration Date

Cardholder Address: _____
(If different from delivery address)

Return Order To: **Augusta Forestry Center**
PO Box 160, Crimora, VA 24431

Phone: (540) 363-7000
Fax: (540) 363-5055

Terms and Conditions:

- A $20 service charge will be applied to all refunds except those caused by the nurseries' inability to deliver ordered seedlings.
- Full refund will be made, without penalty, in the event the Department is unable to make delivery for any reason.
- If seedlings do not arrive in good condition, (i.e. dry, damaged or diseased), claims must be made by telephone or in writing within 7 days of receipt. All unsatisfactory or rejected goods must be held for our advice or disposition.
- It is agreed between the purchaser and the Department of Forestry that our liability will not exceed the original purchase price of the product excluding shipping costs.
- The Department of Forestry assumes no responsibility or liability for the planting of any tree seedlings and, in the sale thereof, makes no warranties, expressed or implied, of merchantability or fitness for a particular purpose and makes no warranties regarding the survival or rate of growth of any seedlings.
- No refunds after May 1st.
- Prices subject to change without notice.

Enabling Legislation

Title 10, Subtitle 2, Chapter 11, Section 10.1-1114 of the *Code of Virginia*. As a direct means of re-establishing forests on lands in Virginia, the Department of Forestry, hereafter referred to as the Department, grows tree seedlings for sale at cost to private and public landowners for foresting lands in Virginia.

Notes

For More Information

For more information on how the Virginia Department of Forestry can help you, call your local VDOF office or visit the agency website at dof.virginia.gov.

Virginia Department of Forestry
900 Natural Resources Drive, Suite 800
Charlottesville, Virginia 22903
Phone: (434) 977-6555
www.dof.virginia.gov

VDOF P00102; 10/2018

This institution is an equal opportunity provider.