

North Carolina Trees for North Carolinians

North Carolina
Forest Service



2017 - 2018 SEEDLING CATALOG

www.buynctrees.com



Plant For Tomorrow...

North Carolina Department of Agriculture and Consumer Services
Commissioner, Steve Troxler

LOBLOLLY PINE

Common Name	Scientific Name	Product Code	Number of Seedlings				
			50	1,000-499,000	500,000-999,000	1,000,000 or more	Wetlands (R2IND)
Loblolly Pine - Coastal	<i>Pinus taeda</i>						
Control Mass Pollinated Selections		007		\$160	\$160	\$160	FAC
3rd Cycle Premium Family Selection		040	\$25	\$65	\$62	\$60	FAC
Loblolly Pine - Piedmont			Prices are Per Thousand				
Control Mass Pollinated Selections		008		\$160	\$160	\$160	FAC
3rd Cycle Premium Family Selection		041	\$25	\$65	\$62	\$60	FAC

PINES and other CONIFERS

Common Name	Scientific Name	Product Code	Price Per Packaging Unit		
			50	500	1,000
Shortleaf Pine, Improved	<i>Pinus echinata</i>	032	\$25		\$65
Virginia Pine, Improved	<i>Pinus virginiana</i>				
• Improved Low Density		038	\$25	\$40	
White Pine, Improved	<i>Pinus strobus</i>	046	\$25	\$55	
Eastern Red Cedar	<i>Juniperus virginiana</i>	058	\$25	\$135	

Price List Expires 6/30/2018

**A Message from Steve Troxler,
Commissioner of N.C. Dept of Agriculture & Consumer Services**

"The N.C. Forest Service tree seedling and nursery program has been growing quality native seedlings for landowners since 1954, providing aesthetic and economic value to the state. In fact, the forest products industry contributes about \$24 billion annually to the state's economy and provides around 180,000 jobs for North Carolinians. The nursery program produces millions of seedlings of more than 50 different species of conifer and hardwood trees every year. These affordable tree seedlings are helping to keep North Carolina beautiful, growing and economically viable."

Product Information

Premium Family Select Seedlings are grown from the best families in our third cycle seed orchards. These selections offer the highest growth potential from open pollinated seed.

Control Mass Pollinated Seedlings are produced crossing known male pollen and known mother trees using Control Mass Pollination methods. CMP Seedlings offer the most growth potential, disease resistance and form characteristic improvements of any of our products and are designed specifically for North Carolina forests. With CMP seedlings, you can expect earlier thinning, shorter final rotations and increased revenue potential.

Loblolly Pine Performance Rating System (PRS)

- Consumer friendly system to show the genetic potential of improved Loblolly Pine
- Developed by N.C. State University Tree Improvement Cooperative
- Performance in four genetic traits are compared to unimproved Loblolly Pine:
 - Deployment area - geographic area suitable for planting of the family
 - Productivity - a numeric rating of the potential timber volume gain of the family
 - Rust-alphabetic rating from A to E with A being the most resistant to fusiform rust.
 - Straightness - alphabetic rating from A to E with A having the most straightness improvement
- All Loblolly Pine products from the NCFs nursery carry PRS ratings.
- For more detailed information visit our web site.

Product Information

Large tree up to 100'+ tall with the largest natural range of Southern Yellow Pine species; prefers full sun; grows best on deep, well drained, fine sandy loam soils; large root system does well on less fertile Piedmont soils; grows well in mixed stands.

Medium sized tree to 70' tall; prefers full sun, clayey soils; generally does poorly on very sandy soils unless they receive adequate moisture and nutrition; seed eaten by wildlife; Christmas tree species

Large tree reaching up to 100'+ tall; prefers cool humid climate; competes best on well drained sandy soils of low to medium quality where hardwoods fail to compete; does poorly in heavy clays; birds eat seeds; widely planted species; Christmas tree species.

Medium sized tree reaching up to 60' tall; tolerates a wide variety of soils from wet swamp land to rocky outcrops; grows best on deep, moist well drained alluvial sites; also grows well on deep upland soils like abandoned farmland; birds eat seeds.

Seedling Treatments:

As a benefit to our customers, the published price for all bare root Loblolly, Shortleaf, Virginia, and White Pine includes treatment for regeneration weevils and deer browse.



Longleaf Pine
Pinus palustris



Loblolly Pine
Pinus taeda



Shortleaf Pine
Pinus echinata

CONTAINERIZED CONIFERS

Common Name	Scientific Name	Product Code	Price Per Packaging Unit		Wetlands (R2IND)
			50	334	
Atlantic White Cedar	<i>Chamaecyparis thyoides</i>	053	\$25	\$80	OBL
Loblolly Pine, Improved	<i>Pinus taeda</i>				FAC
Control Mass Pollinated Loblolly-Coastal Control Mass Pollinated Loblolly-Piedmont 3rd Cycle Coastal - Premium Family Selection 3rd Cycle Piedmont - Premium Family Selection		009		\$90	
		010		\$90	
		011	\$25	\$54	
		012	\$25	\$54	
Longleaf Pine - Improved 1.5 Generation	<i>Pinus palustris</i>	025	\$25	\$65	FAC
Shortleaf Pine - Improved	<i>Pinus echinata</i>	033	\$25	\$52	UPL

Containerized Understory Grasses & Herbaceous Species

(334 Seedlings/Package)	Scientific Name	Product Code	All Containerized Understory Grasses and Herbaceous Species come in packs of 334 seedlings each. \$65/Pack
* Wiregrass	<i>Aristida stricta</i>	380	
Indian Grass	<i>Sorghastrum nutans</i>	387	
Little Bluestem	<i>Schizachyrium scoparium</i>	388	
Big Bluestem	<i>Andropogon gerardi</i>	397	
Longleaf Savannah Mix		399	

These grasses and herbaceous species are typically found in the understory of Longleaf pine fire dependent ecosystems. These species evolved with Longleaf pine and help carry low intensity understory fires across these ecosystems. We recommend these species for understory planting when doing Longleaf pine ecosystem restoration.

*** To be sold by quantities of 500 for \$97**

CONTAINERIZED CONIFERS

Product Information

Small to medium sized columnar evergreen tree 40'-60' in height; shallow rooted; scale like leaves; prefers sunny wet Coastal Plain sites.

Containerized Seedlings offer several advantages:

- By planting an intact root plug, the root system of the seedlings are not disturbed, enhancing survival and growth.
- Fall planting of containers gives advanced root growth that leads to additional seedling growth the following spring.
- Ease of planting

Description of these in the Pine and Conifer section.

LONGLEAF PINE

Product Information

The N.C. Forest Service offers genetically improved and natural occurring selections. Improved Longleaf Pine is grown from seed produced in our orchards made up of tested selections that offer superior growth characteristics. Those improvements include earlier height growth initiation, greater disease resistance and increased volume growth. Seedlings grown from unimproved seed sources are also available.



HARDWOOD PRICES

Single Species Pricing - Hardwoods are packaged in units of 10 or 100

Quantity	10	100 - 900	1000 or greater by 100's
Bare Root	\$25	\$60/100	\$33/Thousand

\$350 per 1,000 of the same species or \$35 per 100 for quantities of 1,000 or greater of the same species

HARDWOODS		Product Code	USES			
Common Name	Scientific Name	Bare Root 1 Year	Timber	Wildlife	Wetlands (RZIND)	Habitat Restoration
Ash, Green - Piedmont	<i>Fraxinus pennsylvanica</i>	123	T	W	FACW	H
Ash, White	<i>Fraxinus americana</i>	126	T	W	UPL	H
Birch, River	<i>Betula nigra</i>	145		W	FACW	H
Black Cherry	<i>Prunus serotina</i>	107	T	W		
Blackgum	<i>Nyssa sylvatica</i>	100	T	W	FAC	H
Blackgum, Swamp	<i>Nyssa sylvatica var. biflora</i>	103	T	W	FACW	
Baldcypress	<i>Taxodium distichum</i>	063	T		OBL	H
Black Walnut - East	<i>Juglans nigra</i>	113	T	W		
Black Walnut - West	<i>Juglans nigra</i>	114	T	W		
Buttonbush	<i>Cephalanthus occidentalis</i>	116		W	OBL	H

HARDWOOD PRICES

Hardwood Products

1 Year hardwoods will vary in height depending on species, with a root collar diameter (base of stem) of 1/4 - 3/8 inch and have a 6-8 inch root system that has been pruned in the nursery bed for ease of planting.

Price List Expires 6/30/2018

Product Information

Medium sized tree 50'-60' tall; rapid growth rate; prefers full sun and moist to wet sites; wildlife eat seeds; wood used for furniture, flooring.

Medium sized tree, 60'-80' tall, prefers full sun. Best growth on deep, moist soils of midslope position. Wood used for furniture, flooring and handles. Wildlife eat seeds.

Medium to large sized tree 50'-80' tall; typically occurring on wet sites; short lived; crown is light, multiple stems frequent; transplants easily; only spring-fruiting birch.

Medium sized tree 50'-80' tall; rapid growth rate; prefers full sun and many soil types; upland species; produces white flowers in early spring; reddish black edible berries in summer that attract birds; wood used for furniture, flooring.

Medium to large tree, widely distributed, moderate growth rate, frequently to 80' tall; prefers well drained light textured soils, tolerates minor flooding; fruit consumed by wide variety of wildlife.

Large tree up to 120' tall; slow to moderate growth rate depending on site conditions; prefers full sun to partial shade, moist but well drained bottomland soils, muck; grows well in mixed stands.

Medium sized pyramidal tree 60'-80' tall, capable of reaching 100'-150' in wild; deciduous; prefers full sun, wet acid soils, flooding; drought tolerance high; develops "knees" from roots.

Medium to large sized tree 100'-120' tall; slow to moderate growth rate; prefers full sun, moist well drained soils; achieves best growth on best sites; edible nuts; drought tolerant; large taproot; valued furniture wood.

Medium Shrub, 6-12' tall, tolerates wet soils, fragrant white flowers attractive to bees and other pollinators.

HARDWOODS		Product Code	USES			
Common Name	Scientific Name	Bare Root 1 Year	Timber	Wildlife	Wetlands (R2IND)	Habitat Restoration
Crabapple, Southern	<i>Malus angustifolia</i>	196		W		H
Dogwood, Flowering	<i>Cornus florida</i>	149		W		
Hickory, Mockernut	<i>Carya tomentosa</i>	173	T	W		
Laurel Oak	<i>Quercus laurifolia</i>	210	T	W	FACW	
Locust, Black	<i>Robinia pseudoacacia</i>	111		W		H
Maple, Red - Piedmont	<i>Acer rubrum</i>	140	T	W	FAC	H
Oak, Cherrybark	<i>Quercus falcata var. pagodifolia</i>	202	T	W	FACW	
Oak, Chestnut Oak	<i>Quercus prinus</i>	204	T	W		
Oak, Live	<i>Quercus virginiana</i>	212	T	W		
Oak, Northern Red - Piedmont	<i>Quercus rubra</i>	207	T	W		
Oak, Northern Red - Mountain	<i>Quercus rubra</i>	208	T	W		
Oak, Swamp Chestnut	<i>Quercus michauxii</i>	219	T	W	FACW	H
Oak, Water	<i>Quercus nigra</i>	220	T	W	FAC	H
Oak, White - Coastal	<i>Quercus alba</i>	223	T	W		H
Oak, White - Mountain	<i>Quercus alba</i>	225	T	W		H
Oak, White - Piedmont	<i>Quercus alba</i>	224	T	W		H
Oak, Overcup	<i>Quercus lyrata</i>	209	T	W	OBL	H
Oak, Pin	<i>Quercus palustris</i>	211		W	FACW	H

HARDWOODS	
Product Information	
Small tree, 20-30 feet tall, often forms thickets, prefers well drained and acidic soils; fruit readily eaten by deer, bears, small mammals and birds, can be used for jelly, preserves and cider; has showy white flowers in spring	
Small tree 30'-40' tall; slow to moderate growth; prefers partial shade and moist well drained soils; berries eaten by many animal species are poisonous to humans.	
Slow growing, medium sized tree of uplands, to 100' tall; produces nuts for many species of wildlife; develops taproot with few laterals, windfirm; used for firewood.	
Description: Rapid growing, medium sized tree up to 80' tall, adaptable to a wide range of soils, produces small acorns favored by small mammals and waterfowl.	
Small to medium sized tree with rapid juvenile growth, legume with root nodules and bacteria which fix atmospheric nitrogen in the soil. Has pea shaped seed pod, prefers moist limestone soils in NC Mountains.	
Medium tree 60'-90' tall; rapid growth rate; shade tolerant; one of first species to show autumn color; adaptable to many sites including wet sites; prolific sprouter; one of the most widely planted species; birds eat seeds.	
Large tree often reaching 100'-130' tall; moderate to rapid growth rate; prefers full sun and a range of soil types including dry sites; produces acorns favored by many animals.	
Medium sized tree 65'-80' tall; slow early growth rate; prefers full sun and a range of upland soil types; produces acorns in fall favored by small and large animals.	
Medium sized evergreen tree 30'-50' tall with a variety of forms; slow to moderate growth rate; wide crown; longlived; prefers full sun and most dry sandy to moist soils; acorns favored by many mammals.	
Medium to large sized tree 60'-90' tall; moderate to rapid growth rate; prefers full sun, well drained soils; produces acorns in fall favored by many small and large animals.	
Medium sized tree 60'-80' tall; moderate growth rate; prefers full sun and full range of soil types including wet sites; acorns favored by many animals.	
Medium to large sized tree 60'-110' tall; slow early growth rate; prefers full sun to partial shade, and a range of soil types; produces acorns in fall favored by small and large animals.	
Large tree 80'-100' tall; moderate growth rate; prefers full sun, moist well drained soils with clay; longlived; produces acorns in fall favored by small and large animals.	
Medium to large sized tree 60'-90' tall; moderate growth rate, long lived; prefers full sun, poorly drained soils alluvial soils and flooding; takes 30 years to produce acorns.	
Medium sized tree 60'-80' tall, relatively fast growing oak; grows well on upper lowland terraces; produces abundant acorns preferred by wildlife.	

HARDWOODS		Product Code	USES			
Common Name	Scientific Name	Bare Root 1 Year	Timber	Wildlife	Wetlands (R2IND)	Habitat Restoration
Oak, Willow - Coastal	<i>Quercus phellos</i>	228	T	W	FACW	
Oak, Willow - Piedmont	<i>Quercus phellos</i>	229	T	W	FACW	
Persimmon	<i>Diospyros virginiana</i>	137		W	FAC	
Redbud, Eastern	<i>Cercis canadensis</i>	188		W		H
Silky Dogwood	<i>Cornus amumum</i>	150		W	FACW	H
Sugarberry	<i>Celtis laevigata</i>	154		W	FACW	H
Sweetgum - Coastal	<i>Liquidambar styraciflua</i>	157	T	W	FAC	
Sycamore - Coastal	<i>Platanus occidentalis</i>	165	T		FACW	
Sycamore - Piedmont	<i>Platanus occidentalis</i>	166	T		FACW	
Water Tupelo	<i>Nyssa aquatica</i>	104	T	W	OBL	
Waxmyrtle/Southern Bayberry	<i>Myrica cerifera</i>	153		W	FAC	H
Chikasaw Plum	<i>Prunus angustifolia</i>	109		W		H
Yellow Poplar - Mountain	<i>Liriodendron tulipifera</i>	170	T			
Yellow Poplar - Piedmont	<i>Liriodendron tulipifera</i>	169	T			

HARDWOODS	
Product Information	
Medium to large sized tree 60'-120' tall; moderate to rapid growth rate; prefers full sun, moist wet to well drained bottomland soils; produces acorns in fall favored by small and large animals.	
Slow to moderate growing small to medium tree 30'-50' tall, to 80' on best sites; older trees develop deep taproot; flowers attract bees; fruit edible and attracts birds.	
Small tree 15'-20' tall; short lived; multi-stemmed; flowers best in full sun but will grow in partial shade; legume; not on wet sites or coarse sands.	
Thicket forming medium shrub, 6-10' tall, yellowish-white flowers are used by pollinators, widely used in wetlands and riparian restoration.	
Medium sized tree, 60-80' tall, grows best on moist floodplains but tolerates drier sites, produces soft mast eaten by a wide variety of wildlife and birds, used for riparian and wetlands restoration.	
Medium to large tree 60'-100' tall; moderate to rapid growth; prefers full sun to partial shade, dry to moist soil; prolific sprouter from roots; highly adaptable; birds eat seeds.	
Large tree 80'-120+' tall; prefers full sun to partial shade, moist well drained alluvial soils; wide spreading crown; white mottled bark.	
Large tree to 110' tall; moderate growth rate; prefers full sun to partial shade, a variety of soils including muck and standing water; deep taproot; seeds eaten by wildlife, valued honey tree.	
Small tree-shrub up to 25' tall, multistemmed, prefers full sun to partial shade, sandy sites in swamps to dry upland woods, wildlife friendly screens.	
Shrub/bush 10'-12' tall. Early white flowers. Does well on a variety of soils. Forms thickets favored by all wildlife for food and cover. Fruit is edible and used fresh, for jams, jellies and wine.	
Large tree 80'-120' tall; rapid growth rate; prefers full sun, moist well drained soil; does not do well on overly wet or dry soils; long lived; fragrant flowers in late spring, valued as a honey tree; yellow-green fall foliage color.	

Cherrybark Oak
Quercus pagoda Raf



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Chestnut Oak
Quercus prinus



Copyright © Robert O'Brien

Laurel Oak
Quercus laurifolia



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Swamp Blackgum
Nyssa biflora



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U.S. Army Corp of Engineers wetland indicators for each species.		
USFWS Region 2 Wetland Indicator (R2IND)		Probability of Occurrence in Wetland
OBL	Obligate	Always (greater than 99%)
FACW	Facultative Wetland	Usually (67%-99%)
FAC	Facultative	Sometimes (34%-66%)
FACU	Facultative Upland	Seldom (1%-33%)
UPL	Upland	Never (less than 1%)

A Message from James West,
Nursery and Tree Improvement Program Head,
North Carolina Forest Service:

Hurricane Matthew passed over Claridge Nursery on October 8, 2016, leaving behind extensive wind, water and flood damage. The storm impacted last season's seedling crop to the point that most of it was unusable. With plenty of hard work, determination and assistance from our friends, the staff at Claridge Nursery are well on their way to overcoming these challenges. We are excited and proud to once again offer a wide variety of high quality, native tree seedlings to meet the needs of North Carolinians in 2017-18. We have even expanded our line of Loblolly Pine seedlings to offer Control Mass Pollinated (CMP) seedlings in large quantities. These seedlings offer the highest growth potential of any of our products. We look forward to once again meeting your seedling needs and helping you achieve your reforestation goals.

UPS Shipping Cost		
Call for and out-of-state UPS rates.		
UPS rates can not be guaranteed due to possible fuel surcharges.		
Hardwoods	per 10 seedlings per 100 seedlings	\$16.00 \$25.00
Pines / Cedars	per 50 seedlings per 334/500/1000 seedlings	\$16.00 \$27.00

NORTH CAROLINA FOREST SERVICE

HOW TO REACH US

Seedling Coordinator:

N.C. Forest Service

**762 Claridge Nursery Road
 Goldsboro, NC 27530**

1-888-NC-TREES (1-888-628-7337)

Fax: 919-731-7993

Email - seedlingcoordinator@ncagr.gov

SEE THE NCFS WEB PAGE FOR:

Current Seedling Availability: ncforestservice.gov

On-line Store:

www.buynctrees.com

Seedling Order Form

Forest Management Information

County Ranger Phone Numbers:

http://www.ncforestservice.gov/contacts/contacts_main.htm

ncforestservice.gov & www.buynctrees.com



ORDERING INFORMATION:

For your convenience, the North Carolina Forest Service (NCFS) has several ways you may order seedlings:

- Order on-line at www.buynctrees.com, The Seedling Store
- Order by phone with your Visa or Master Card
@ 1-888-NCTREES(628-7337)
- Order at any NCFS Facility
- By Mail: Complete the enclosed seedling order form and mail to:

Seedling Coordinator, 762 Claridge Nursery Road, Goldsboro, NC 27530

Please include the white copy of the order form and a check or money order made payable to the NC Forest Service, or list your Visa or Master Card number and expiration date on the order form. Cash will not be accepted. Incomplete order forms cannot be processed.

Orders for all seedlings are accepted beginning the first business day in July and are filled on a first come, first served basis. Order confirmations will notify you if we are unable to fill any portion of your order and or meet your scheduled ship date. Adverse weather conditions may impact seedling availability as well as lifting, packing and shipping schedules.

Commercial nursery and out-of-state sales can only be made if a surplus has been declared (usually around mid-December). The customer is responsible for delivery arrangement for "out-of-state" orders.

For planting instructions and forest management information contact your local county Forest Ranger/Forester. **See www.ncforestservice.gov/contacts/county.htm for county phone numbers and address.**

SHIPPING INFORMATION:

Shipment to Distribution Center: Seedlings can be shipped December thru mid - April to the NCFS distribution center serving your county, for a charge of \$2 per package/unit. (See list of Distribution Centers on back of order form.) Allow 4 weeks for deliveries. There is no shipping charge for picked up orders from Claridge Nursery

UPS Shipment: Orders may be shipped UPS December thru March for an additional charge. (See UPS rates on previous page)

Nursery Pickup: Claridge Nursery produces all bareroot and container species. Please contact the nursery at least 3 working days prior to desired pickup date.

For information concerning the shipment or pickup of your order, contact the nursery or your local NCFS distribution center.

Claridge Nursery

762 Claridge Nursery Road
Goldsboro, NC 27530
(919) 731-7988
Fax: (919) 731-7993

Bareroot seedling distribution will begin the first week in December and continue thru mid April pending weather conditions.

Containerized Seedling distribution will begin mid September.

Containerized seedlings can provide additional growth if planted in the Fall. Special deliveries to NCFS distribution centers are available prior to December for commercial quantities.

Replacements or adjustments to orders must be made within 10 days of pickup or delivery. Inspect your seedlings at the pickup site. No refunds or credits will be given for seedlings not picked up. Bareroot seedlings not picked up by May 1 will be destroyed.

CANCELLATION & REFUNDS:

All seedling order cancellations must be received in writing by the Seedling Coordinator. Refunds will take at least 6-8 weeks. Overpayments of \$5.00 or less will not be refunded unless requested.

No Cancellations for Bareroot Seedlings after December 1st.

No Cancellations for Containerized Seedlings after September 1st.

The North Carolina Forest Service is an equal opportunity/affirmative action employer. Its programs, activities and employment practices are available to all people regardless of race, color, religion, sex, age, national origin, handicap or political affiliation.

15,000 copies of this public document were printed at a cost of \$4,725 or \$0.31 each.

**N.C. Forest Service
762 Claridge Nursery Road
Goldsboro, N.C. 27530**



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