

GEORGIA FORESTRY  
COMMISSION



# GFC Seedling Brochure

## 2021 - 2022



### GFC VISION:

Healthy, sustainable forests providing clean air, clean water, and abundant products for future generations.

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## SOUTHERN YELLOW PINES

The term “southern yellow pines” principally refers to Longleaf, Shortleaf, Slash, and Loblolly pine trees. The Georgia Forestry Commission’s Flint River Nursery offers improved selections of Loblolly, Slash, and Shortleaf pines. These improved selections offer larger yields in volume, disease resistance, and other gains in physical properties such as straightness. For detailed information on the performance ratings of our improved Loblolly, please visit our webpage at [www.gatrees.org/Reforestation/](http://www.gatrees.org/Reforestation/).

All GFC tree seedlings are adapted to Georgia’s unique climate and soils. They have been cultured to provide fibrous root systems, large stem diameter, and abundant energy reserves to ensure the best possible growth and survival.



# SEEDLINGS - PINE

ELITE GENETICS	Name	Description	per 1000	per 500	per 50
	GEORGIA GIANTS	This mix of three of the fastest-growing, open-pollinated loblolly pine families in the Southeast are expected to produce 53.5% more volume age age six; excellent rust resistance; good straightness. Recommended for Coastal Plain only.	\$78	\$49	\$30
	ELITE STRAIGHT	This is a mix of three of the straightest, most fusiform rust resistant seedlings from our 3rd cycle selections. These seedlings, through field progeny testing have proved to grow extremely straight, with very low incidence of rust. They also produce 36% more volume per acre at age six.	\$78	\$49	\$30
	SUPER SELECT PREMIUM SLASH	From our genetically superior Slash Pine seed orchards we now offer this super volume producing Slash Pine. It produces an astounding 58% more volume per acre at 15 years old. It also has superb resistance to fusiform rust.	\$78	\$49	\$30

ADVANCED GENETICS	SELECT P3 LOBLOLLY	Selected families from a third cycle piedmont orchard expected to produce more than twice as much volume at age six than unimproved loblolly with superb rust resistance. Recommended for north of the Fall Line.	\$73	\$46	\$27
	UPPER COASTAL PLAINS LOBLOLLY	This 3rd cycle Loblolly variety is a small seed orchard mix of a few families that produce 48% more volume per acre at age six as compared to local unimproved checklots. It is just under our famous Georgia Giants in volume production, and is suitable for the upper coastal plains of Georgia.	\$73	\$46	\$27
	LOWER COASTAL PLAINS LOBLOLLY	This 3rd cycle Loblolly variety is a small seed orchard mix of a few families that produce 48% more volume per acre at age six as compared to local unimproved checklots. It is just under our famous Georgia Giants in volume production, and is suitable for the lower coastal plains of Georgia.	\$73	\$46	\$27
	SELECT PREMIUM SLASH	These trees represent the best families "selected" from the Premium Slash population. They will produce 36% more volume on high rust hazard sites.	\$73	\$46	\$27

OTHER PINES	LONGLEAF	80-120 ft. in height. Does best in well-drained, acidic, sandy soils. Most distinctive of yellow pines with its long clustered needles and large pine cones. It is considered a fire wise species showing fire resistance even in the grass stage.	\$100	\$60	\$41
	SHORTLEAF (2ND GENERATION)	These shortleaf pine seedlings are from 2nd cycle selections. 80-100ft. in height. Generally found on dry upland sites.	\$70	\$46	\$27
	VIRGINIA	40-70 ft in height. Grows naturally in the upper piedmont and lower elevations of the Appalachian Mountains. Best development occurs on well-drained loams.	\$70	\$46	\$27



## HARDWOODS

The Georgia Forestry Commission offers a generous variety of hardwood species. Included among these are several native oak species such as Northern Red Oak and White Oak. Oak varieties provide food for wildlife, abundant shade, and beautiful seasonal colors. Other fruit-bearing trees, such as Persimmon or Crabapple, are also favored by growers seeking to establish food plots for wildlife.

Additionally, the nursery's catalog includes many other ornamental and flowering trees that are popular in Georgia landscapes. Flint River Nursery's inventory is well-suited to meet the needs of customers engaged in large reforestation efforts or small projects.



## SEEDLINGS - HARDWOODS

OAKS	Name	Description
	CHERRYBARK OAK	<i>Quercus falcata</i> var. <i>pagodifolia</i> , 120-130 ft in height. This massive oak tree is among the largest and fastest growing of the southern red oaks. High quality wood.
	GOBBLER SAWTOOTH	<i>Quercus sp.</i> , Similar in characteristics to the Sawtooth Oak. This species offer smaller sized acorns favored by wildlife species.
	LIVE OAK	<i>Quercus Virginiana</i> , also known as the Southern Live Oak is an evergreen oak tree native to the Southeastern United States. This is an iconic figure in the South, and is our state tree in Georgia. Typical open grown trees can reach 65.5 feet, with a limb spread of nearly 88.5 feet.
	NORTHERN RED	<i>Quercus rubra</i> . Moderate to fast growing oak found in the mountains and piedmont; 80-100 ft. in height. Best on deep well-drained loams.
	SAWTOOTH	<i>Quercus acutissima</i> . 50-60 ft. in height. Though non-native, grows well in eastern states producing large acorn crops as early as age 6.
	SWAMP CHESTNUT	<i>Quercus michauxii</i> . Medium oak in the white oak family; 60-80 ft. in height. Produces quality wood and sweet acorns for wildlife.
	WHITE	<i>Quercus alba</i> . Large, long-lived oak reaching 80-100 ft in height. Valued for high quality wood and food source for wildlife.
	WILLOW	<i>Quercus phellos</i> . This deciduous tree, in the Red Oak family is moderately fast growing, and grows to be between 65 and 98 ft. tall. It is important for both shade, ornamental, and wildlife. It prolifically produces acorns that are important to a wide variety of animals. Acorn production, on average, usually starts earlier than most native Oak species. Willow oaks are becoming widely popular in urban plantings in large cities such as Atlanta and Washington D.C.

FRUIT	CRABAPPLE	Small tree or shrub, 20-30 ft. in height. Ornamental and food source for wildlife. Performs best on moist soils.
	PERSIMMON	Small to medium sized tree found on a variety of sites. Produces sweet, edible fruit. Popular wildlife food source.
	WILD PLUM	Thicket forming shrub, or small tree. Produces red or yellow fruit in early summer. Valuable wildlife food source.

FLOWER	CREPE MYRTLE	Small tree or shrub that produces flowers ranging from white to pinkish-red. Blooms last 60-120 days.
	DOGWOOD	Small understory tree rarely reaching 40 ft. in height. Beautiful white flowers in the spring and shiny red seeds in the fall.
	REDBUD	Small ornamental tree or shrub prized for its purplish pink blooms in early spring. Grows well in wide range of sites.

### ALL HARDWOOD SPECIES\*\*

PRICE	per 10	per 50	per 250	per 500
	\$35	\$55	\$160	\$210

**\*\* PLEASE NOTE: ONLY ONE SPECIES IS ALLOWED PER PACKAGE.**

## HARDWOODS (Continued)

ORNAMENTAL	Name	Description
	BALD CYPRESS	Deciduous tree reaching 100-150 ft. in height. It is often found in areas characterized by frequent and prolonged flooding.
	CATALPA	Small ornamental tree bearing white or purple-tinted flowers. It is frequently host to caterpillars that are used as fishing bait.
	THUJA	20-25 ft. in height. It has a dense pyramidal shape that can become more open as the tree matures. It is often used to create hedgerows.
	YELLOW POPLAR	Large tree often exceeding 100 ft. in height. Wood valuable for variety of uses. Showy flowers and beautiful foliage.

### ALL HARDWOOD SPECIES

PRICE	per 10	per 50	per 250	per 500
	\$35	\$55	\$160	\$210

\*\*PLEASE NOTE: ONLY ONE SPECIES IS ALLOWED PER PACKAGE.

SPECIAL	<b>POLLINATOR PACKAGE</b> 5 Dogwood, 5 Redbud, 5 Yellow Poplar	Per Package
	This special package is designed to create native habitats for vital pollinator animal species such as bees.	\$65

# SEEDLING CARE

*Although the quality of trees has been greatly improved through research in recent years, survivability of seedlings depends largely on care taken in storing, transporting, and planting.*

## STORING

1. At delivery, inspect the packages of seedlings before accepting and make sure your order is correct. Check for damages. Then unload immediately.
2. Minimize storage time, especially early in the season.
3. Do not wash or shake gel from seedling roots. Gel applied to roots at the nursery prevents drying out during transport and decreases transplanting shock.
4. Do not prune the roots of packed seedlings. Seedlings need every single tiny root to absorb moisture and nutrients from the ground, so the more root surface the better the growth. If some seedlings have roots that are excessively long, remove them individually, and trim slightly.
5. Do not allow seedlings to dry out from wind or sun. Ample moisture is a key factor.
6. Allow air to circulate to prevent heating when in packages. Bags/bales should not be stacked over two deep per layer unless spacers providing 2-4" of air space are used.
7. Avoid temperature extremes. Fluctuations in temperature, especially excessive heat, during storage and transportation can result in seedling trauma.
8. Do not attempt to plant seedlings that have been *thoroughly* frozen in the pack. Slightly frozen seedlings, however are acceptable and should be thawed naturally. Do not handle seedlings before they are completely thawed.

## TRANSPORTING

1. Do not transport seedlings in truck beds containing fertilizer, chemical, or fuel residues.
2. Protect seedlings from weather extremes with a light colored tarp to shade. At least 12" of air space should be left between tarp and the top of bags/bales.
3. Handle with care to avoid damaging root systems and predisposing seedlings to stress.
4. Avoid extended transport time.

## PLANTING

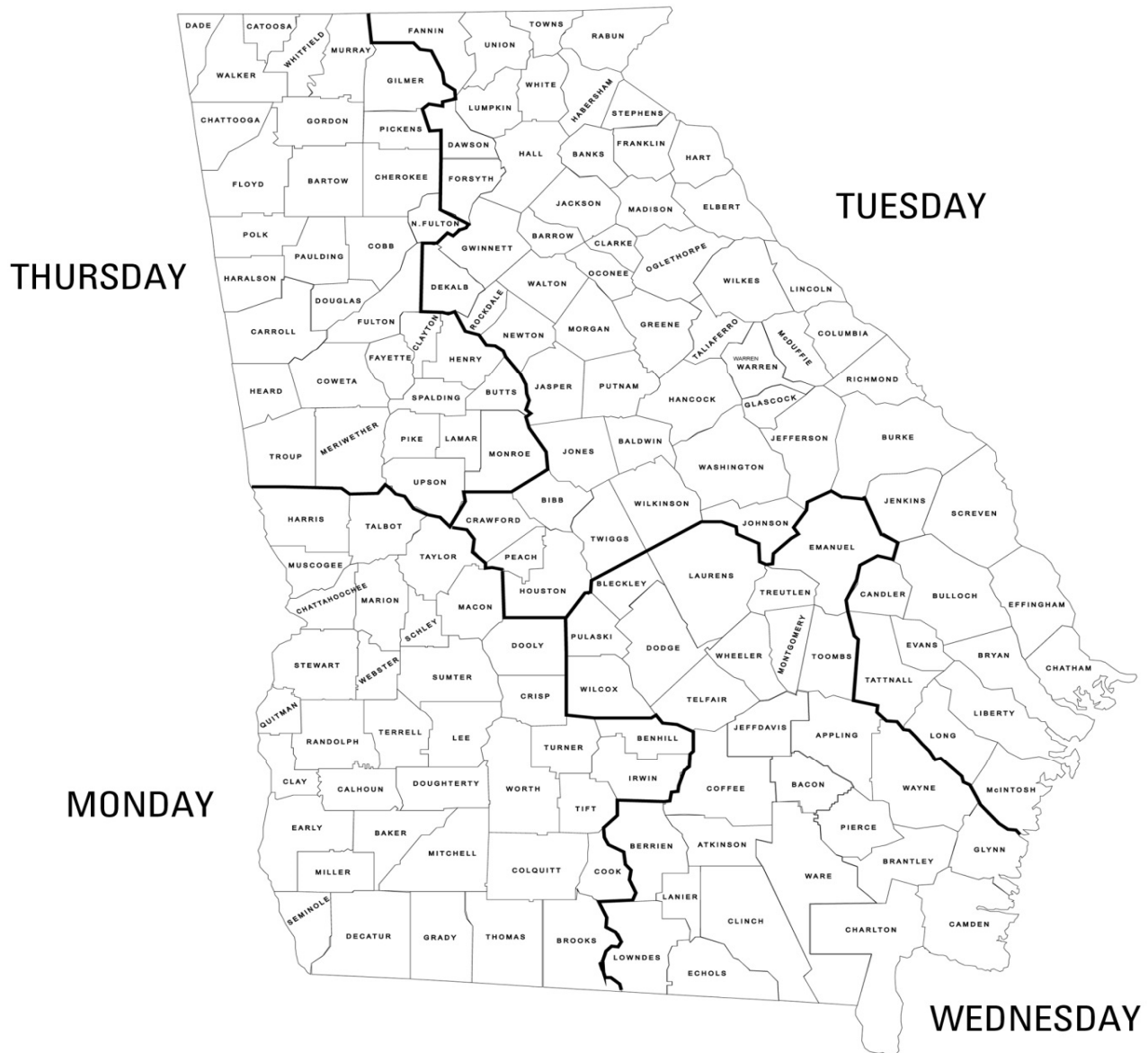
1. Plant seedlings within a two week period after acceptance.
2. Plant when soil is moist.
3. Plant seedlings during cooler temperatures as they are more conducive to seedling survival and healthy growth. (Suggested planting season: December 1 to March 1)
4. When hand planting, carry plants to site in container with sufficient mud, sawdust, or wet moss to cover and keep seedling roots moist.
5. Remove only a single seedling at a time when hand planting or enough seedlings from planter tray for immediate use.
6. Plant seedlings deeply. The correct planting depth should be at least as deep as the plant grew in the nursery. Greater exposure to the soil and its water content - even one-half inch of added depth of planting - significantly improves the survival rates of the seedlings.
7. Use mechanical planting if possible. Although slightly more expensive, planting mechanically yields better results and is an investment that pays off. Make sure the machine is properly adjusted to get the proper planting depth and to avoid J-rooting.



# ORDERING INFORMATION

- The Georgia Forestry Commission begins taking seedling orders on July 1, 2021 for the following planting season (December through February).
- To order:
  - Visit our online store at [www.gaseedlings.org](http://www.gaseedlings.org);
  - Visit your local GFC office. (See our public website, [www.gatrees.org](http://www.gatrees.org) for listings); OR
  - Contact Shawn Akins at (478) 751-3520.
  - For questions about what species to plant, or any other technical inquiry, please call the Flint River Nursery at 478-508-0056, or contact your local GFC management Forester.
- Payments must accompany each order.
- A 10% down payment will secure orders totaling 100,000 seedlings or more.
- All orders totaling less than 100,000 seedlings must be paid in full at the time of order placement.
- Sales tax must be assessed to each order unless you provide proof of sales tax exemption. The sales tax is determined by **county of delivery**.
- Discounts are available for large quantity seedling orders: Pine seedling discounts - 5% for 100,000, 10% for 500,000 and a 15% for 1,000,000 and up. Hardwood seedling discount - 5% for 10,000 and up. Contact the nursery for additional information.
- No refunds for cancellations after January 15. An in-house credit will be issued to your account.
- Weekly deliveries to GFC offices begin the first week of December and continue through February for PINE species. Deliveries begin the first week of January and continue through February for HARDWOOD species. (See map on page 10 for route schedule.)
- Report problems with seedling quality or quantity to your local Georgia Forestry Commission office immediately.

# SEEDLING DELIVERY SCHEDULE



1-800-GATREES

[www.GaTrees.org](http://www.GaTrees.org)

*The Georgia Forestry Commission provides leadership, service, and education in the protection and conservation of Georgia's forest resources.*

*An Equal Opportunity Employer and Service Provider*

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# SEEDLING ORDER FORM

(for payment by check only)

**PLEASE CALL SHAWN AKINS, MACON OFFICE, AT 478-751-3520  
TO PLACE ORDER AND RECEIVE ORDER AMOUNT.**

*To claim Georgia Agricultural Tax Exemption, please have your GATE # available when you call.  
A copy of your GATE card should be mailed with your order form and payment.*

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_

Zip Code: \_\_\_\_\_

Phone: \_\_\_\_\_

E-Mail: \_\_\_\_\_

Signature: \_\_\_\_\_

Date of Order: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

**Method of Shipment:**

☐ State Truck to Local Forestry Office

☐ Customer Pick-Up at Flint River Nursery, Byromville, GA (478-508-0056)

Requested Delivery Date	County of Planting	County of Delivery	Species	Number of Seedlings	Unit Cost	Total Cost
ORDER TOTAL						

**PLEASE CALL SHAWN AKINS AT 478-751-3520 FOR TOTAL ORDER AMOUNT.**

**MAIL CHECK AND ORDER FORM TO:**

Georgia Forestry Commission  
PO Box 100269  
Atlanta, GA 30384-0269