



## Estimated Sales Inventory 2011-2012

The following is our best estimate of emerged seedlings that will be available for the 11-12 season. This does not reflect our shippable inventory. Totals will decrease as some seedlings will not make shippable grade.

Species	Quantity
Northern White Cedar 3-0	60,000
Norway Spruce 3-0	55,000
White Pine 3-0	200,000
Norway Spruce 2-0	200,000
Tamarack 2-0	15,000
Red Pine 2-0	90,000
White Pine 2-0	200,000
Virginia Pine	30,000
Pitch x Loblolly F2 Pine	40,000
Black Cherry	200,000
Blackgum	28,000
Black Locust	50,000
Black Oak	105,000
Black Walnut	230,000
Bur Oak	300,000
Cherrybark Oak	100,000
Chinkapin Oak	60,000
Hackberry	10,000
Ohio Buckeye	2,500
Pecan 1-0	125,000
Persimmon	80,000
Pin Oak	100,000
Red Oak	300,000
River Birch	30,000
Scarlet Oak	46,000
Shumard Oak	125,000
Silver Maple	47,000
Swamp Chestnut Oak	125,000
Swamp White Oak	94,000
Sweetgum	75,000
Sycamore	125,000
Tuliptree	201,000
White Oak	300,000

Species	Quantity
Overcup Oak	35,000
Shingle Oak	10,000
Baldcypress	50,000
Chestnut Oak	40,000
Kentucky Coffeetree	20,000
Bur Oak 2-0	40,000
Shagbark Hickory 2-0	200,000
Sugar Maple 2-0	60,000
Red Maple 2-0	35,000
Shellbark Hickory 2-0	70,000
American Plum	70,000
Buttonbush	30,000
Common Chokecherry	20,000
Elderberry	25,000
Flowering Dogwood	25,000
Gray Dogwood	20,000
Hazelnut	30,000
Redbud	25,000
Silky Dogwood	25,000
Washington Hawthorn	50,000
Ninebark	45,000
Black Chokeberry	30,000
Pawpaw 2-0	20,000
Wildlife Packet	300
Upland Packet	100
Bottomland Packet	100
Nut Packet	100
Fine Hardwoods Packet	100
Red Oak Select	5,000
White Oak Select	10,000
Black Cherry Select	6,000
Hybrid Butternut Select	2,500
<b>Total</b> (including packets )	<b>4,687,700</b>

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# Manager's Message

by Bob Hawkins

The wet spring brought lots of rain, damaging winds, lightning and also seedling disease. Heavy rains forced seed planting to be delayed quite some time and much later than preferred. Stratified seed was ready to sow mid April but soil conditions forced us to wait until mid May and later. Even though seeding was late, seed emergence still was high. This inability to germinate early however does limit height growth on a wide range of species.

Along with this extremely wet weather were exceptionally high temperatures. This created an environment ideal for Dampening-Off Fungi. This took its toll on many germinating plants of several species. Not a complete wipeout but higher than normal losses were experienced.

Damaging storms was another part of our spring weather. High winds caused loss of power for the day, many Seed Orchard trees as well as windbreak trees to be blown over, and damage to our straw storage hoop building. Lightning fried all of our power surge strips protecting all computers and electronic devices. These strips were all replaced but they saved us thousands of dollars in damages by protecting our equipment.

Extreme wet conditions early this spring interfered with the burning of our wheat straw used over the beds to protect seed from temperature extremes and animal predation. The lack of this straw to burn completely introduced many weed seeds into

the seedbeds which normally are destroyed during this burn. These are now germinating and causing havoc to crews in weeding them from these areas.

Wet conditions also brought delays in seedling planting to all customers. Coolers, through the later part of June, still housed some 250,000 seedlings from paid orders waiting to be picked up. Each time fields began to dry another rain came to delay planting.

Each year brings a new challenge. The one thing I've learned over my years at the Nursery is there is no such thing as a normal season. Each change of season brings with it new problems. Some we can learn how to overcome but others, such as forces of nature, we have no control over and must just learn to accept.

## Summertime at the Nursery

by Rob Winks

As one production cycle ends, we find ourselves in the middle of 2011-12 production, but also preparations are being made for 2012-13 seedling production.

Along with general property maintenance, summertime brings the challenges of growing the high quality seedlings expected from the Indiana Division of Forestry Tree Nurseries. Our time is spent battling weeds, diseases and insects. Even

### E-Mail Address Please

In an effort to increase efficiency, we are asking customers to include their email address, if available, as part of their contact information when placing this season's order. It will be used to send invoicing and other pertinent customer communication that we have otherwise mailed in the past.



though we have a couple of chemicals that help control weeds, all of the seedbeds are still hand weeded by the DOC inmate crew. This is usually a summer long job for the inmates.

Keeping the insects and diseases in control requires time spent walking the fields and inspecting the seedlings. Usually, however, all the seedlings are sprayed every two weeks with a fungicide and an insecticide.

Fertilization and irrigation are other aspects that require a substantial amount of time. We fertilize every two weeks until the end of July. Irrigation usually has to be scheduled around all of this field work but our goal is still a minimum of 1 inch of water per week.

Summertime is also the beginning of the next production cycle. Around the beginning of July we have our Seed Vendor Meeting. At this meeting we try to get all our seed vendors' registration paperwork filled out so that it can be submitted prior to seed being collected. We also use this time to explain any changes in the seed buying process and we announce the new seed quotas and prices. Then, mid to late July, Black Cherry seed will ripen and the 2012 production cycle will begin.

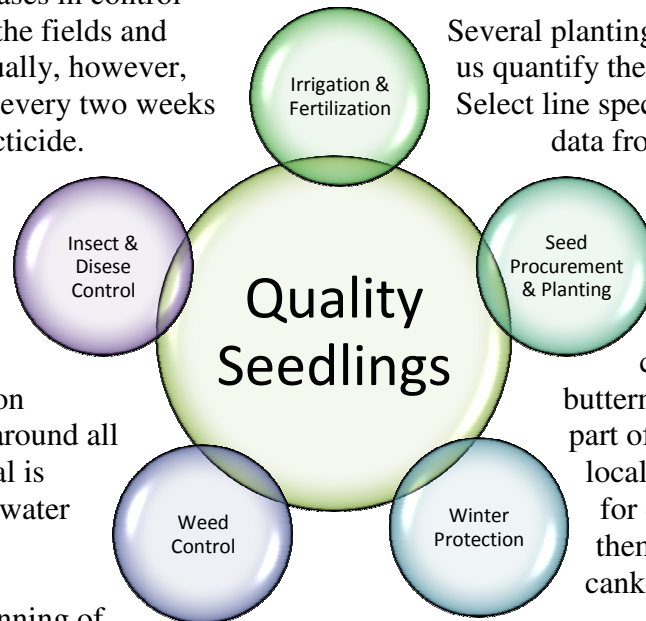
Although the summer time is the nursery's "slow season" it takes a lot of hard work to grow quality seedlings, maintain and repair equipment, and prepare for the next production cycle.

## Tree Improvement Update

by Phil O'Connor

Preliminary results of a Purdue study comparing our select walnut seedlings to our nursery-run walnut seedlings show improved growth in the select trees (9-15% in height and 17-18% in diameter). Over the past 5 years, the number of Select walnut seedlings has averaged just over 6%

of our walnut crop. This season (last fall's seed crop) there weren't enough seeds to justify planting select walnut separately. There is, however, a good crop of Select white oak and black cherry, and a small crop of Select red oak.



Several plantings have been established to help us quantify the benefits of planting the other Select line species as well. The comparative data from white oak, red oak, and black cherry select plantings should be available in the future.

In the past year we installed new grafted orchards for black cherry, pecan, and hybrid butternut. The hybrid butternuts are part of a region-wide project to collect locally adapted trees, analyze them for degree of hybridity, and test them for resistance to butternut canker.

This spring we grafted multiple copies of 40 new hybrid butternut accessions, 3 new black walnut accessions, and 4 new pecan accessions. These grafts will be out-planted next spring.

During the past grafting season we added 30 accessions of black cherry based on growth and form. We added 18 accessions of native species flowering crab, 21 cultivars and numbered selections of pecan, and 11 accessions of hybrid butternut. As these trees begin seed production over the next several years they will give us a ready supply of high quality seed for the nursery's production use.

## NURSERY STAFF

### *Vallonia*

Bob Hawkins - Section Supervisor

Rob Winks- Nursery Specialist

Phil O'Connor- Tree Improvement Specialist

Ray Redicker- Laborer Supervisor

Rebecca Luttrell- Admin. Assistant- Order/Shipping Office

Rebecca Fleetwood- Admin. Assistant- Main Office

### *Jasper-Pulaski*

John Karstens- Property Mgr.

Doris Dahn- Account Clerk