

Visit our website at www.nhnursery.com to view pictures of seedlings, mature plants, flowers and fruit.

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State of New Hampshire
Department of Resources and Economic Development
DIVISION of FORESTS and LANDS
172 Pembroke Rd. Concord, New Hampshire 03301



DIVISION of FORESTS and LANDS

NH STATE FOREST NURSERY

SPRING
2017

405 Daniel Webster Hwy
BOSCAWEN, NH

DEPARTMENT OF RESOURCES AND ECONOMIC DEVELOPMENT
DIVISION OF FORESTS AND LANDS
172 Pembroke Road
CONCORD, NEW HAMPSHIRE 03301
TEL: (603) 271-2214
FAX: (603) 271-6488
<http://www.nhnursery.com>

Hello,

As reported last year, we have experienced two open winters which has resulted in losses particularly the true firs used primarily in the culture of Christmas trees. We have experimented with different mulches and have found a promising fix to the problem of frost heaving. In fact, our 2-year old beds have some of the best looking stock we have seen. Unfortunately for our Christmas tree customers, it takes a minimum of 3 years to grow a field ready seedling, so one more year will be needed before our saleable numbers of firs will be at good levels again. Balsam, Fraser, Canaan, and Concolor fir will not be available this year in stand-alone sales. We are very sorry for any inconvenience this may have caused our growers.

Our White and Norway spruce 2 year old seedlings are above average in size and are an option for those who are willing to try a different Christmas tree. The 2 year old pines are the best ever for those who have reforestation projects. Our hardwoods are plentiful as always. This year we will be offering Juneberry for the first time in many years. We are looking forward to a good shipping season in the spring.

Please contact us with any questions you have. We are in the business of growing seedlings, but our real business is serving you. You can contact the Nursery directly at (603) 796-2323, by e-mail: nursery@dred.state.nh.us, or by regular mail at 405 Daniel Webster Highway, Boscawen, NH 03303.

Thank You for your continued support!

The New Hampshire State Forest Nursery Staff

COVER PHOTO: Field of 2 year old conifers

IMPORTANT INFORMATION

FOR DAILY INFORMATION ON AVAILABLE QUANTITY OR ORDERING ASSISTANCE PLEASE TELEPHONE (603) 271-2214 BETWEEN 8:00 AM AND 4:00 PM MONDAY THROUGH FRIDAY.

Orders are accepted on a first come, first served basis, giving preference to New Hampshire residents. Please indicate first and second choice on the SEEDLING ORDER FORM to avoid delay in case of species sellout. ENCLOSE PAYMENT IN FULL (by MasterCard, Visa, check, or money order) and please be sure seedlings are ordered in quantities indicated.

Orders cancelled by the purchaser after March 1 will not be refunded. Orders cancelled at any time by the State Forest Nursery will be refunded. Refunds due the purchaser for cancellation or other adjustment WILL BE MADE AT THE END OF SHIPPING IN THE SPRING.

All seedlings are shipped in moisture resistant Kraft paper bags of up to 500 seedlings in each bag. The bags are no larger than 22 inches in diameter, 36 inches in length, and up to about 35 pounds in weight (about the size of a large dog food bag). Average seedling height is measured from the root collar to the top of the seedling.

Seedlings should be planted immediately upon arrival! If planting must be delayed more than two days, "heel in" the plants. If necessary, store them in a cold storage facility or a refrigerator. Do not allow them to freeze.

We recommend that you do not fertilize during the first growing season. **Instructions** for care and planting are available from the State Forest Nursery, on our website, or your County Forester. When picking up plants at the Nursery with an open-bed truck you will need to provide protection for the shipping bags. Do not expose them to direct sunlight while in transit.

You may visit us to view the seedbeds weekdays from 8:00 am to 3:30 pm. Tours can be scheduled for groups of 15 or more.

MAILING LIST REQUEST FORM

If you wish to remain on the Nursery Mailing List for next year or to be included for the first time, please fill out and return this portion to the NH Department of Resources and Economic Development, Division of Forests and Lands, 172 Pembroke Rd, Concord, NH 03301.

Name: (last name first) _____

Mailing Address: _____

City/Town: _____ State: _____ Zip: _____

The Nursery is located on Rt. 3 in Boscawen about 15 miles north of Concord and 6 miles south of Franklin at :

405 Daniel Webster Hwy
Boscawen, NH 03303
603-796-2323



CONIFER SEEDLINGS

IMPORTANT

For further information regarding your planting needs contact your county UNH Cooperative Extension office listed below.

COUNTY FORESTERS

<u>County</u>	<u>Name</u>	<u>Email Address</u>	<u>Phone</u>
Belknap	Andy Fast	andrew.fast@unh.edu	527-5475
Carroll	Wendy Scribner	wendy.scribner@unh.edu	447-3834
Cheshire	Steve Roberge	steven.roberge@unh.edu	352-4550
Coos	Brendan Prusik	brendan.prusik@unh.edu	788-4961
Grafton	Jim Frohn	jim.frohn@unh.edu	787-6944
Hillsboro	Forestry Information Center	forest.info@unh.edu	800-444-8978
Merrimack	Tim Fleury	tim.fleury@unh.edu	796-2151
Rockingham	Fred Borman III	fred.borman@unh.edu	679-5616
Strafford	Andy Fast	andrew.fast@unh.edu	749-4445
Sullivan	Glenn "Dode" Gladders	dode.gladders@unh.edu	863-9200



Shipping Charges

1. New Hampshire 15% +\$8.00
2. East of Mississippi 20% + \$8.00
3. West of Mississippi 25% + \$8.00

NOTE: The following are bare root seedlings (as opposed to transplants or plugs). All are NH seed sources unless otherwise noted and must be ordered in quantities listed.

DOUGLAS-FIR, *Pseudotsuga menziesii* - Tall evergreen tree native to western United States. A magnificent tree with soft, 3/4 to 1 1/4" green needles radiating in all directions from the branch. A popular Christmas tree. Susceptible to late spring frost; avoid planting in low areas. Prefers moist, well-drained soils. Excellent response to shearing, one of the fastest growers. Principal enemies: Rhabdocline and Swiss needle casts. Grows best in central and southern NH. Mature height: 60-80'. Seed Source: Lincoln Nat. Forest, CO.

Age	Size	Per 10	Per 25	Per 100
2 yr.	4-8"	\$10	\$20	\$60

WHITE SPRUCE, *Picea glauca* - Hardy, symmetrical and naturally dense evergreen. Needles 1/2 to 1", blue-green, angled and sharp tipped. Important for timber and Christmas trees; also used for erosion control and site reclamation because it is adaptable to wide range of planting sites but prefers moderately well to well-drained loamy soils. Grows well throughout NH. Mature height: to 70'.

Age	Size	Per 10	Per 25	Per 100	Per 500	Per 1000
2 yr.	4-8"	\$10	\$20	\$60	\$250	\$400

BLUE SPRUCE, *Picea pungens* - Native to Rocky Mountains of western United States. Popular Christmas tree; blue color, good needle retention. Prefers moist, well-drained soils. Mature height: 60-80'. Seed source: Colorado.

Age	Size	Per 10	Per 25	Per 100	call for availability if ordering after Jan. 1st 271-2214
4 yr.	8-14"	\$15	\$25	NA	

NORWAY SPRUCE, *Picea abies* - Fast growing pyramidal tree. Short to medium dark needles. Often planted as a Christmas tree; also produces high-quality lumber. Prefers moderately well to well-drained soils. Grows well throughout NH. Mature height: 60-90'.

Age	Size	Per 10	Per 25	Per 100	Per 500
2 yr.	4-8"	\$10	\$20	\$60	\$250



RED PINE, Pinus resinosa - A tall tree widely used for reforestation and gravel pit reclamation. Tolerates wide variety of planting sites but prefers well-drained soils. Shade intolerant; grows well throughout NH. Mature height: to 85'. Seed Source: Lake states.

Age	Size	Per 10	Per 25	Per 100	Per 500	Per 1000
2 yr.	3-6"	-	-	\$45	\$200	\$350
3 yr.	6-16"	\$10	\$20	-	-	-

SCOTCH PINE, Pinus sylvestris - A fast growing tree with long needles. Excellent Christmas tree if sheared annually. Prefers well-drained sandy soils. Grows well throughout NH. Mature height: 60-90'. Seed Source: NH Nursery seed orchard.

Age	Size	Per 10	Per 25	Per 100	Per 500	Per 1000
2 yr.	5-10"	\$10	\$20	\$60	\$250	\$400

WHITE PINE, Pinus strobus - One of the most important and tallest timber trees in the northeast; also planted for Christmas trees. Long, soft needles; supple branches. Tolerates a variety of soils. Grows well throughout NH. Mature height: to 100' plus.

Age	Size	Per 10	Per 25	Per 100	Per 500	Per 1000
2 yr.	3-6"	-	-	\$45	\$200	\$350
3 yr.	6-12"	\$10	\$20	\$60	-	-

RED CEDAR, Juniperus virginiana - Small dense tree with both scale-like and needle-like leaves, making it less susceptible to deer browse. Grows best in full sun. Rot-resistant heartwood ox-blood color and aromatic. Dark blue berries consumed by song and game birds. Grows best in central and Southern New Hampshire. Avoid planting near apple trees. Height: 20 - 40'.

Age	Size	Per 10	Per 25	Per 100	Per 500	Per 1000
2 yr.	5-10"	\$10	\$20	\$60	\$250	\$400

THE FOLLOWING CONIFER SPECIES ARE ONLY AVAILABLE IN THE CHRISTMAS TREE SAMPLER PACKAGE

CONCOLOR FIR, Abies concolor - Native to the southwest, this tree exhibits blue-green needles up to 3" in length. Becoming popular as a Christmas tree with its striking foliage, good needle retention, and zesty, tangerine fragrance. Prefers well-drained fertile soils. A slow grower, but perfect for the customer looking for one-of-a-kind Christmas tree. Mature height: 70-90'. Seed Source: San Isabel National Forest, CO.

BALSAM FIR, Abies balsamea - The original old-fashioned Christmas tree. Steeple-shaped evergreen tree with soft, flat blue-green extremely fragrant needles up to 1" long. Prefers moist, well-drained soils; avoid planting in low areas. This variety is the result of years of tree improvement work in our seed orchard in Boscawen. It is highly sought after by Christmas tree growers for its blue-green to blue color and dense foliage. Mature height: 50-75'.

WE EXPECT TO HAVE THE FOLLOWING AVAILABLE SPRING 2018

3 year old:

Balsam Fir, Fraser Fir, Concolor Fir, and Canaan Fir

SPECIALTY PACKAGES

Our specialty packages consist of 25 assorted seedlings (5 each of 5 different species) color coded for easy identification. Each seedling will average 6 to 12" tall. Each package is no bigger than a somewhat flattened 2' x 3' poly-lined Kraft paper bag and will easily fit in the trunk of a small car. Flowering shrubs and trees will flower and produce fruit most abundantly when grown in full sunlight. **NOTE: Occasionally we may need to substitute a species within a packet due to crop failure, winter damage or other circumstances beyond our control.**

DOGWOOD PACKAGE - This package consists of 5 kinds of dogwood flowering shrubs native to NH. All are important to songbirds, providing nesting cover in spring and food sources from summer to fall. The package contains alternate-leaf dogwood, gray dogwood, red-osier dogwood, silky dogwood and yellow-osier dogwood. **Price-\$30 per pkg.**

NATIVE SPECIES PACKAGE - This package contains plants that are native to NH (present when European settlers arrived in the early 1600's). These species will grow on average dry soils. The package contains beach plum, hazelnut, alternate leaf dogwood, virginia rose and fragrant sumac. **Price-\$30 per pkg.**

SONGBIRD/WILDLIFE COMBINATION PACKAGE - This package includes plants that provide seeds and berries that attract birds and other wildlife, whether summer visitors or year-round residents. A valuable source of natural food. The package contains American hazelnut, crabapple, elderberry, European mt. ash, and juneberry. **Price-\$30 per pkg.**

WETLANDS PACKAGE - These shrub species grow well in wetlands and saturated soils, including pond edges and stream banks. They will tolerate surface water during part of the growing season. The package contains winter-berry holly, aronia berry, yellow osier dogwood, wetlands rose, and pussy willow. **Price-\$30 per pkg.**

new DECIDUOUS TREE PACKAGE - These trees lose their leaves every fall. The seeds, nuts, or berries they produce are an important food source for a variety of birds and animals. This package contains Black Walnut, Sugar Maple, red oak, silver maple, and white oak. **Price-\$30 per pkg.**

CHRISTMAS TREE SAMPLER PACKAGE - This package contains 5 each of the following popular trees: balsam fir, scotch pine, concolor fir, douglas fir and white spruce. This package allows one to test small quantities of different species to see which trees will grow best on a selected site. Conifer trees provide cover, nesting habitat, and food for a variety of songbirds and wildlife. **Price-\$30 per pkg. MAXIMUM ORDER 10 CHRISTMAS TREE SAMPLER PKGS**

new SCREEN /WINDBREAK PACKAGE - These conifers are great for providing a windbreak or screen, as well as nesting habitat and food for birds and animals. 5 each of red cedar, Norway spruce, white spruce, white pine, and scotch pine will provide visual variety to a screen or windbreak. Plant 8-10 ft. apart. **Price-\$30 per pkg.**

HARDWOOD TREE SEEDLINGS

NON NATIVE CONSERVATION SEEDLINGS

Please see disclaimer under Native species.

The following are 1 or 2-year old seedlings unless otherwise noted.

Heights are at least 6 to 12", and are available for the following prices:

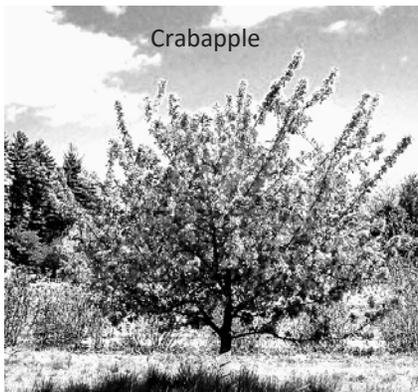
Age	Size	Per 10	Per 25	Per 100
1-2 yr.	6-12"	\$15	\$25	\$80

CRABAPPLE, Malus spp. - Plant at least 10-15' apart; Fruit: abundant fruit usually persistent through winter; Wildlife value: used by numerous songbirds, game birds and mammals; a small tree. Mature height: 10-25'.

HAWTHORN, Crataegus spp.: Size: 10-40'; Soil: moist or well-drained; Spacing: 10' apart. Wildlife: fruit (persistent through winter) eaten by many songbirds and game birds, rabbit, deer; Nesting: songbirds.

MOUNTAIN ASH, EUROPEAN, Sorbus aucuparia - A medium size tree up to 30' tall that grows well in dry soils but prefers rich moist soil. Recommended spacing is to plant each tree singularly, 10 to 20' apart. White flower and red-orange berry clusters are valuable food for deer, rabbit, ruffed grouse, and many species of songbirds, especially grosbeaks and waxwings. In fruit August into winter.

RUGOSE ROSE, Rosa rugosa - A coarse, dense shrub 4-6' in height with pink, occasionally white flowers. Large persistent fruits (hips) filled with seeds. Used by songbirds, mammals and upland game birds. Salt tolerant. Grows well in dry sandy soils. *We have been asked to discontinue sales due to its invasive tendencies on some sites, therefore this will be the last year we will have it for sale.*



RED OAK, Quercus rubra - A large tree producing some of the most valuable lumber in the northeast. Prefers fertile, well-drained soils from central NH southward. Oak acorns are a valuable source of winter food and eaten by deer, bear, turkeys and squirrels. These seedlings have been root pruned to stimulate root growth. Mature height: 70-80'.

Age	Size	Per 10	Per 25	Per 100	Per 500	Per 1000
2 yr.	6-10"	\$15	\$25	\$80	\$300	\$500

WHITE OAK, Quercus alba - A large native tree, slow growing to a height of 80' and more. This valuable timber tree also produces acorns favored by deer, bear, turkey, squirrels and other species of wildlife and songbirds. Grows best in central and southern New Hampshire.

Age	Size	Per 10	Per 25	Per 100	Per 500	Per 1000
2 yr.	6-10"	\$15	\$25	\$80	\$300	\$500

SUGAR MAPLE, Acer saccharum - One of the most valuable hardwood trees supplying lumber and maple syrup. Prefers moist, well-drained loamy soils and grows well throughout NH. Mature height: 70-80'.

Age	Size	Per 10	Per 25	Per 100
2 yr.	4-8"	\$15	\$25	\$80

SILVER MAPLE, Acer saccharinum - A fast-growing shade tree, locally common in bottomlands along larger rivers in the northeast; well adapted to wet sites. Also known as soft, white or river maple. Mature height: 60-80'.

Age	Size	Per 10	Per 25	Per 100
2 yr.	8-12"	\$15	\$25	\$80

BLACK WALNUT, Juglans nigra - Valuable hardwood tree that grows best on rich, well-drained sites in southern NH. Dark brown heartwood lumber used for veneer, furniture, cabinets and ornamental woodworking. Large, round nuts favored by squirrels and mice. Tomatoes, apples and other species may not survive near large walnut trees. These seedlings have been root pruned to stimulate fine root growth. Mature height: 70-100'.

Age	Size	Per 10	Per 25	Per 100	Per 500	Per 1000
1 yr.	8-16"	\$15	\$25	\$80	\$300	\$500



White oak seedlings

Please visit our website at
www.nhnursery.com
 to see sample pictures of these and other species
 in this catalog.

NATIVE CONSERVATION SEEDLINGS

Disclaimer: These plants are primarily intended for wildlife and songbird use. Some species may contain toxins harmful to humans if consumed.

The following are 1 or 2-year old seedlings. Heights are at least 6 to 12", and are available for the following prices (except as noted):

Age	Size	Per 10	Per 25	Per 100
1-2 yr.	6-12"	\$15	\$25	\$80

ARONIA BERRY (black chokeberry), Aronia melanocarpa - a small (6-10') shrub which grows well in wetlands. It tends to root sucker, forming large clumps. White flowers in June; black berries August - November eaten by songbirds and game birds.

BAYBERRY, NORTHERN, Myrica pennsylvanica - Soil/site: well-drained to dry soils, also salt tolerant; Wildlife value: food and cover; plant 1-3' apart for best wildlife use, fruit consumed by songbirds and game birds; Fruit: persists through winter. Mature height: 3-8'.

DOGWOOD, ALTERNATE-LEAF, Cornus alternifolia - Soil/site: dry to moist soils, good shade tolerance. Flowers: May-June; Fruit: dark berries in clusters eaten by game birds and songbirds. Twigs browsed by deer and rabbits. Mature height: 10-20'.

DOGWOOD, GRAY (red panicle dogwood), Cornus racemosa - Soil/site: wet or dry. Wildlife value: a songbird favorite. Has white flowers in June; Fruit: in the fall the leaves turn reddish and plant produces clusters (panicles) of white berries on red stems; Mature height: to 15'.

DOGWOOD, RED-OSIER, Cornus sericea - Soil/site: wet. Uses: stream bank erosion control. Fruit: clusters of white berries in July-August. Wildlife value: fruit preferred by many species of songbirds and game birds. The bright red twigs in winter are browsed by deer, moose, rabbits. Mature height: to 12'.

DOGWOOD, YELLOW OSIER, Cornus sericea - A variety of red-osier dogwood, but with yellow twigs throughout the year.

DOGWOOD, SILKY, Cornus amomum - Soil/site: wet. Uses: planted for hedgerows, windbreaks and for stream bank erosion control. Fruit: August-September. Wildlife value: bluish fruit eaten by game birds, especially important as a source of food for migrating songbirds; twigs browsed by deer and rabbits. Mature height: 10-12'.

GRAPE, NATIVE, Vitis spp - Size: up to 30' vine. Soil: moist to well-drained fertile soils. Spacing 1-2'. Wildlife: game birds, mammals, almost 100 species of songbirds. Fruit: August - October. **Seedlings may be less than 6" or rootstock.**

HAZELNUT, AMERICAN, Corylus americana - Soil/site: dry sites, often in thickets. Wildlife value: nuts, also called filberts, ripen in late summer and are preferred by numerous mammals, game birds and some songbirds. Mature height: 5-10'.

JUNEBERRY (shadbush), Amelanchier spp. - Soil/site: moist to dry, can often be found in the understory or along field edges. Flowers in May; Fruit: June-July; Early source of fruit for a variety of song and game birds, and animals. Mature height 10-20".

MOUNTAIN ASH, AMERICAN, Sorbus americana - Soil/site: favors dry soils. Spacing: plant each seedling singularly 10-20' apart. Fruit: small, reddish, clustered, about 1/4" late summer into autumn. Mature height: 30-40'.

NINEBARK, Physocarpus opulifolius - grows in moist or dry soils, partial shade or full sun. Dense foliage good for nesting birds. Known for its flaky bark. Can withstand deer browse. Abundant flowers May-June. Mature height 5-10 ft.

PLUM, AMERICAN, Prunus americana - Soil/site dry to moist Plant 15 ft. apart for maximum fruiting. Flowers May to June; Fruit: August to October. Used by game birds and mammals. Mature height: 15-20 ft.

PLUM, BEACH, Prunus maritima - Soil/site: Dry soils also salt tolerant; Flowers: May-June; Fruit: late summer, purple or yellowish in color, 1/2 to 1" in size. Mature height: to 6'.

ROSE, VIRGINIA, Rosa virginiana - Soil/site: moist to dry; Fruit: 1/2 to 3/4" hips remain on plant until following spring if not eaten; Wildlife value: used by songbirds, mammals and upland game birds. Mature height: 4-7'.

ROSE, WETLANDS, Rosa palustris - Soil/site: wet soils; Fruit/flowers: flowers pink, hips persistent; Wildlife value: songbirds, game birds and mammals; thicket-forming shrub with slender stems. Mature height: 4-7'.

SUMAC, FRAGRANT, Rhus aromatica - Soil/site: Dry soils, tolerates partial shade and acid soils; Uses: excellent cover to stabilize bankings; Fruit: persists into winter; Wildlife value: a favorite of grouse and turkey. Mature height: 4-6'

WINTERBERRY HOLLY, COMMON, Ilex verticillata - Soil/site: common in swamps and along field edges; Fruit: bright orange or red berries formed by early autumn, persisting into winter; Wildlife value: fruit used by many species of songbirds, waterfowl, upland game birds and small mammals. Mature height: to 15'.

THE FOLLOWING NATIVE SPECIES ARE AVAILABLE IN THE SPECIALTY PACKAGES ONLY

ELDERBERRY, COMMON, Sambucus canadensis - Soil/site: tolerant of wet to dry. Uses: screens or shrub borders planted 4-8' apart; Wildlife value: favored by squirrels, deer and migrating songbirds; Fruit: August-October. Mature height: to 10'. **Seedlings may be less than 6" or rootstock. SONGBIRD/WILDLIFE PKG ONLY.**

PUSSY WILLOW, Salix discolor - Soil/site- wet soils; Full Sun. Can grow to 20 ft. if not pruned. Do not plant near water, sewer, or septic pipes. **WETLANDS PKG ONLY.**