

2020 Bare Root Seedling Descriptions

CONIFERS

Norway Spruce – Transplants: (*Picea abies*) This graceful pyramidal has sharp, shiny, dark needles. Beautiful spreading branches with drooping twigs. An extremely hardy tree that is successful under most soil conditions. Makes a charming Christmas tree, an appealing ornamental specimen, or a protective windbreak. Fast growth makes the Spruce ideal for timber.

<https://www.hortincopia.info/Plants/040/picabi000.html>

Family: *Pinaceae* Pine

Type Tree

USDA Hardiness range 2B - 7A

Exposure Full sun

Bloom color Pink

Water needs Moist

Landscape uses Screen, specimen

Height 60' to 80' / 18.20m to 24.40m

Spread 25' to 35' / 7.60m to 10.60m

Growth rate Slow

Persistence Evergreen, needles or needle-like

Bloom attributes Attracts butterflies

Leaf color Green

Fruit color Brown

Soil pH requirements Acidic, neutral, slightly alkaline

Soil type Sandy, clay, loamy

Form Pyramidal

Attributes and features Attract birds, invasive



Eastern White Pine -North Carolina – Transplants (*Pinus strobus*) A majestic evergreen beauty when planted as a single specimen tree, this very hardy pine grows stately and gracefully tall. Needles are soft and bluish-green in color. Bark is thin, smooth and greenish brown, turning darker as trees mature. With adequate moisture, growth can be 12-18" per year. Ideal for specimen planting, shade windbreaks and appealing Christmas Trees.

<https://www.hortincopia.info/Plants/010/pinstr000.html>

Family: *Pinaceae* Pine

Exposure Partial shade to full sun

Bloom color Pink, yellow

Bloom time Spring

Water needs Moist

Landscape uses Screen, superior hedge, specimen

Height 50' to 75' / 15.20m to 22.80m

Spread 25' to 35' / 7.60m to 10.60m

Growth rate Moderate

Persistence Evergreen, needles or needle-like

Leaf color Blue, green



Fruit color Brown
Soil pH requirements Acidic, neutral
Soil type Sandy, loamy
Form Oval, pyramidal
Attributes and features Attract birds, attractive foliage, native to North America, fragrant foliage, naturalizing

American Arborvitae: (*Thuja occidentalis*) A handsome pyramidal evergreen with foliage varying from dark green to light green during growing season. A very hardy, easily transplanted evergreen that grows well in a variety of soils, but best in loamy moist soil. Excellent for screens and tall hedges. Easily sheared.

<http://www.hortincopia.info/Plants/048/thuocc000.html>

Family: Cupressaceae Cypress
Type Tree
USDA Hardiness range 3A - 7A
Exposure Partial shade to full sun
Bloom color Yellow
Bloom time Spring
Water needs Moist to wet
Landscape uses Hedge, screen, superior hedge, specimen
Height 25' to 40' / 7.60m to 12.20m
Spread 10' to 15' / 3.00m to 4.60m
Growth rate Slow
Persistence Evergreen
Bloom attributes Attracts butterflies
Leaf color Green
Fruit color Brown
Soil pH requirements Acidic, neutral, alkaline, slightly alkaline
Soil type Sandy, clay, loamy
Form Pyramidal

Attributes and features Attracts birds, native to North America, invasive

Drought Tolerance: Moderate

Pest/Disease Issues: No major pest or disease issues. Leaf miner and spider mites, root rot and phytophthora are all possibilities.



HARDWOODS

American Redbud: (*Cercis canadensis*) A small flat-topped tree, producing pink blooms on bare stems in early spring. Foliage is large and heart-shape, changing to yellow in the fall. Does well in a protected location.

<http://www.hortincopia.info/Plants/025/cercan000.html>

Family: Fabaceae Pea
Type Tree
USDA Hardiness range 4B - 9A
Exposure Partial shade to full sun
Bloom color Lavender, pink, purple

Bloom time Spring
Water needs Dry to moist
Landscape uses Border, standard, specimen, street tree, woodland garden
Height 15' to 25' / 4.60m to 7.60m
Spread 15' to 35' / 4.60m to 10.60m
Growth rate Fast
Persistence Deciduous, broadleaf
Bloom attributes Attracts butterflies
Leaf color Green
Fruit color Brown
Soil pH requirements Acidic, neutral, alkaline, slightly alkaline
Soil type Sandy, clay, loamy
Form Rounded, vase
Attributes and features Attracts birds, native to North America, invasive



Chinese Chestnut:

(*Castanea mollissima*) Grown in our nursery from seed of selected strain. Hardy, blight-resistant, fast growing tree which bears nuts slightly larger than the now extinct American Chestnut. Plant two or more for pollination. Height at maturity about 30-35 feet.

<http://www.horticopia.info/Plants/061/061000.html>

Family: Fagaceae Beech

Type Tree

USDA Hardiness range 4B - 8A

Exposure Full sun

Bloom color White, yellow

Bloom time Summer

Water needs Moist

Landscape uses Specimen

Height 25' to 40' / 7.60m to 12.20m

Spread 35' to 40' / 10.60m to 12.20m

Growth rate Moderate

Persistence Deciduous, broadleaf

Bloom attributes Fragrant flowers

Leaf color Green

Fruit color Green

Soil pH requirements Acidic, neutral, slightly alkaline

Soil type Sandy, clay, loamy

Form Rounded



SOLD OUT

Red Oak: (*Quercus rubra*)

This 75-80 ft., deciduous oak. Its straight trunk is clear of branches for some distance above the ground and supports a wide canopy, commonly 3/4 that of height. The dark bark is striped with long, smooth plates separated by deep furrows. Leaf lobes are bristle-tipped. Fall color is can be crimson, golden-orange, or russet.

The northernmost eastern oak, it is also the most important lumber species of red oak. Most are used for flooring, furniture, millwork, railroad cross-ties, mine timbers, fenceposts, pilings, and pulpwood. A popular handsome shade and street tree, with good form and dense foliage. One of the most rapid-growing oaks, it transplants easily, is hardy in city

<http://www.horticoptia.info/Plants/073/querub000.html>

Fagaceae (Beech Family)

PLANT CHARACTERISTICS

Duration: Perennial

Habit: Tree

Leaf Complexity: Simple

Leaf: Green

Autumn Foliage: yes

Fruit: Red, Brown

Size Class: More than 100 ft.

BLOOM INFORMATION

Bloom Color: Yellow , Green , Brown

Bloom Time: Mar , Apr , May

GROWING CONDITIONS

Water Use: Medium

Light Requirement: Sun , Part Shade

Soil Moisture: Dry , Moist

Soil pH: Acidic (pH<6.8)

CaCO₃ Tolerance: Low



Soil Description: Well-drained, loamy sands.

Conditions Comments: One of the most shade-tolerant oaks. Transplants readily due to negligible taproot.

Susceptible to the deadly oak wilt. Do not prune in wilt-infested areas during the growing season. Fairly fast-growing. Withstands pollution. Develops chlorosis in soils of high pH. Red oak is a handsome tree, recommended for planting in streets and parks. (Peattie)

BENEFIT

Use Wildlife: Attracts songbirds, ground birds and mammals.

Use Food: EDIBLE PARTS: Acorns (nuts) are edible after tannins are leached or boiled out. Gather nuts during the fall from September to October

Warning: POISONOUS PARTS: Acorns (seeds of nuts) and young leaves. Low toxicity if eaten. Symptoms include stomach pain, constipation and later bloody diarrhea, excessive thirst and urination.

Attracts: Butterflies , Hummingbirds

Larval Host: Gray Hairstreak

Sugar Maple: (*Acer saccharum*)

An attractive maple that can be used for dual purposes. A handsome tree for shade. Rounded head with dense green foliage having serrated three to five lobed leaves. The smooth silvery bark becomes darker as the tree ages. Mature trees produce sap in Spring that can be used for making delicious maple syrup and sugar. Wood of these trees is hard maple, valuable for floors and furniture making. Mature height approximately 70 to 100 feet.

<http://www.horticoptia.info/Plants/022/acesak000.html>

Family: *Aceraceae* Maple Family: *Aceraceae* Maple

Type Tree

USDA Hardiness range 3A - 9A

Exposure Partial shade to full sun

Bloom color Red

Bloom time Spring

Water needs Wet

Landscape uses Erosion control, woodland garden

Height 60' to 70' / 18.20m to 21.40m

Spread 50' to 75' / 15.20m to 22.80m

Growth rate Fast

Persistence Deciduous, broadleaf

Bloom attributes Attracts butterflies

Leaf color Green

Fruit color Brown, green

Soil pH requirements Acidic, neutral

Soil type Sandy, clay, loamy

Form Vase

Attributes and features Attracts birds, native to North America, invasive, naturalizing



Apple Tree:

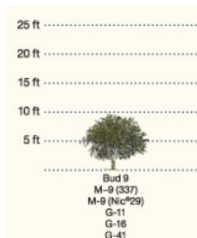


Ambrosia: A chance seedling discovered in the orchards of the Mennell family in British Columbia, Canada. The fruit finishes with a 50% pink to red blush over a yellow background color. The flavor is sweet and very pleasant, and texture is crisp. Ambrosia matures late September in south central PA. Tree growth habit is compact, upright and very productive. Root Stock is GENEVA® 11 (G-11). Developed from a cross of Malling 26 and Robusta 5, G-11 produces a tree similar in size to M-9 (337). Shows higher yield efficiency than EMLA 26 and like a M-9. It has moderately high resistance to fire blight, good resistance to Phytophthora root rot, but is not resistant to woolly apple aphids. It does not express the virus sensitivity of G-16.



CrimsonCrisp® : CrimsonCrisp® is medium in size with a very attractive crimson red color over 95% of the fruit surface. CrimsonCrisp® has a very firm, crisp texture with a tart, complex flavor. The tree is very grower friendly with a spreading habit, fruiting throughout the two- and three-year old branches. The fruit matures in mid-season and will keep in cold storage for six months. CrimsonCrisp® is a registered trademark of Purdue Research Foundation. Root stock is a GENEVA® 16 (G.16). A dwarfing rootstock developed from a 1981 cross of Ottawa 3 and Malus Floribunda. G-16 produces a tree similar in size to trees on M-9 clones. Its desirable characteristics include high yield efficiency and resistance to burrknots and root suckers. G-16 shows strong resistance to fire blight and some tolerance to apple replant disease. Due to virus sensitivity, G-16 is available only with certain scion combinations.

Both apples can reach up to 10 ft. tall:



Pears:



Bartlett: A large, heavy-bearing variety with excellent quality. Long considered one of the choicest canning varieties, Bartlett accounts for about 75 percent of the pear production in the United States and Canada. Bartlett requires cross pollination and ripens in late August.



Shenandoah: Another release from USDA and OSU, Shenandoah harvests approximately three weeks after Bartlett. Fruit size is large with traditional sub-acid pear flavor. Blight resistance is good and similar to that of Seckel. Shenandoah stores very well for up to five months without breaking down.

Both pears have OHxF87 rootstock: Can reach up to 10 ft tall and can be planted at 5' in row and 12-14' between rows.





DIY Rain Barrel Kits: A

55-gallon blue rain barrels and a DIY diverter kit. It measures 3ft tall and is 6 ft in circumference.

Seed Mixes:

AMERICAN SEED COMPANY NORTHEASTERN MIX

GENUS/SPECIE	COMMON NAME	TYPE	HEIGHT	COLOR	SEASON
Achillea millefolium	White Yarrow	P	18-36"	WHITE	S
Aster novae angliae	New England Aster	A	24-36"	PURPLE	F
Centaurea cyanus	Cornflower	A	24-48"	MIXED	S
Cheiranthus allionii	Siberian Wallflower	P	10-18"	ORANGE	SP
Chrysanthemum maximum	Shasta Daisy	P	16-24"	WHITE	S
Coreopsis lanceolata	Lance-Lvd Coreopsis	P	18-36"	YELLOW	S-F
Delphinium ajacis	Rocket Larkspur	A	12-36"	WHITE/PINK/BLUE/VIOLET	S
Dianthus barbatus	Sweet William	P	12-24"	WHITE/PINK/RED	S
Echinacea purpurea	Purple Coneflower	P	24-36"	PURPLE	S
Gaillardia pulchella	Gaillardia	A	12-24"	YELLOW-RED	S
Gypsophila elegans	Annual Baby's Breath	A	8-18"	WHITE	S-F
Liatris spicata	Gayfeather	P	24-48"	PURPLE	S
Linaria maroccana	Spurred Snapdragon	A	18-24"	PINK/YELLOW/VIOLET	SP-S
Linum grandiflorum rubrum	Scarlet Flax	A	12-36"	SCARLET	S
Lupinus perennis	Perennial Lupine	P	12-36"	BLUE	SP-S
Oenothera lamarckiana	Evening Primrose	P	24-60"	YELLOW	S
Papaver rhoeas	Corn Poppy	A	12-36"	WHITE/PINK/RED	S
Rudbeckia hirta	Black Eyed Susan	A/B/P	12-36"	YELLOW	S-F
Silene armeria	Catchfly	A/B	16-22"	PINK	S

TYPE	
A- Annual	45%
P- Perennial	48%
B- Biennial	7%
TP- Tender perennial, grown as an annual in cold climates	

SEASON
SP - Spring
S- Summer
F-Fall

Seeds per pound
829,000

Northeastern Wildflower Mix:

19 species

Rate: 5 to 10 lbs./acre

Bumblebee Buffet Mixture

BBMX0219

%	Common Name	Latin Name
15.92	Wallflower, Siberian	Cheiranthus allionii
11.94	Larkspur, Rocket	Delphinium consolida, Mixed
11.94	Balsam 'Camellia Flowered Mix'	Impatiens balsamina 'Camellia Flwd. Mix'
11.94	Lupine, Yellow	Lupinus densiflorus aureus
11.94	Lupine, Arroyo	Lupinus succulentus
7.96	Coneflower, Purple	Echinacea purpurea
5.97	Zinnia 'Dahlia Flowered Mix'	Zinnia elegans 'Dahlia Flowered Mix'
3.98	Cosmos, Dwarf Mixed	Cosmos bipinnatus, Dwarf Mixed
3.98	Gayfeather	Liatris spicata
3.98	Penstemon, Rocky Mountain	Penstemon strictus
3.98	Sage, Blue	Salvia farinacea
1.99	Snapdragon, Tall Spurred 'Northern Lights'	Linaria maroccana 'Northern Lights'
1.99	Prairie Clover, Purple	Dalea purpurea
1.99	Phacelia, Lacy	Phacelia tanacetifolia
0.50	Bergamot	Monarda fistulosa
79+15%	Germination,	02/19
99.33%	Pure Seed	
0.01%	Crop Seed	
0.63%	Inert Matter	
0.03%	Weed Seed	

Bumblebee Buffett Mix:

15 species

Rate: 9 to 18 lbs./acre