

BENZIE

Conservation District



WHITE PINE
Pinus strobus L.
PINE FAMILY

Seedling Catalog

FALL 2018

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MESSAGE FROM THE EXECUTIVE DIRECTOR

Thank you for supporting your conservation district by voting “Yes” on August 7th for our millage proposal! This is the third time over the course of 10 years that you have demonstrated how important it is for the community of Benzie County to have our organization acting as stewards of our local natural resources. We will continue to work with our partners in addressing environmental issues that impact all of us.

A portion of the millage dollars will be dedicated to our new Aquatic Invasive Species program, started in the spring of 2017. Jane, Jodi and intern, Jamie, have driven far and wide over a three-county area to educate the boating public on the dangers of

transporting aquatic invasives, and to actually wash their vessels. As we’ve seen, those invasives can ruin a perfectly wonderful lake.

On the following pages, you’ll find our seedling sale offerings, which is exclusively conifers for fall. These trees plant well this time of year, as they get established during the dormancy period of cold weather.

We live in an extraordinarily beautiful part of the world and because of your help, we’ll continue working to keep it that way. THANK YOU!

All the best,



ANNUAL MEETING

Tues, November 20th

6:30 to 8:30 pm

Mills Community House

Benzonia

Guest Presenter:

Dr. Jo Latimer

Aquatic Biologist & Outreach

Specialist in the MSU

Department of Fisheries & Wildlife



CONIFERS



RED PINE (*Pinus resinosa*)

Height: 60' to 80' **Rate of growth:** fast

Soils: sandy, well-drained soils

Size: bareroot transplants are 9-12"

Perfect for most of Benzie County! Straight, tall stems create natural fence or windbreak. Plant a red pine plantation as an investment. Prefers full sun and is shade intolerant and extremely cold tolerant.



WHITE PINE (*Pinus strobus*)

Height: 80' to 150' **Rate of growth:** fast

Soils: light, sandy to heavy textured soils

Size: bareroot seedlings are 8-15"

Michigan's state tree. Soft, five-needle bunches; welcomes variety of songbirds and wildlife. Full sun and partial shade. Provides privacy and protection from the wind.



BALSAM FIR (*Abies balsamea*)

Height: 45' to 65' **Rate of growth:** med to slow

Soils: prefers moist, well-drained acidic soil

Size: bareroot seedlings are 8-15"

Aromatic tree with strong, soft needles. Popular uses include yard and Christmas trees. Plant in sun to partial shade for color and cover in northern hardwoods.



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CONIFERS



NORWAY SPRUCE (*Picea abies*)

Height: 60' to 130' **Rate of growth:** med to fast
Soils: loamy, moist, sandy, well-drained & clay
Size: bareroot seedlings are 6-12"

This spruce is non-native but is commonly planted and considered "naturalized" in Michigan. Tolerant of humidity, and acidic soils. Noted for its drooping branchlets, large cones, and beauty.



WHITE SPRUCE (*Picea glauca*)

Height: 60' to 75' **Rate of growth:** medium
Soils: acidic, clay, drought tolerant, loamy, moist, sandy, well-drained soils
Size: bareroot seedlings are 10-20"

Christmas-tree shape compliments the yard, good for windbreak and wildlife habitat. Does well in full sun. Wood used for pulp and lumber.



NO. WHITE CEDAR (*Thuja occidentalis*)

Height: 30' to 50' **Rate of growth:** slow
Soils: cool, moist, nutrient-rich soils
Size: bareroot seedlings are 6-15"

Known to grow in swamps, but like well-drained, slightly alkaline soils. Partial sun and shade. Good for hedges and windbreaks. Browsed by deer; cover and nesting for birds.

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GRASSES & SEEDS



ECO-TURF GRASS SEED MIX

Height: 4" to 6" **Rate of growth:** slow

Soils: loam/sand/gravel and well drained clay

Coverage: 1 pound covers 200 square feet

These deep-rooted native fescues are an alternative to traditional mixes. No intense watering, mowing or fertilizing. Choose not to mow and enjoy a soft look lawn. Full sun/partial shade. Contact us for **Quantity Discount Pricing!**



BIG BLUESTEM (Andropogon gerardii)

Height: 6' to 8' **Rate of growth:** medium

Soils: medium to well drained soils; adaptable

Coverage: 1 ounce covers 200 square feet

Attracts butterflies; deer resistant; acts as claybuster. In late summer produces distinctive three-parted seed heads. The green leaves and stems change to reddish-copper for nice winter appearance. Top choice for erosion control.



LITTLE BLUESTEM (Schizachyrium scoparium)

Height: 1' to 3' **Rate of growth:** medium

Soils: ranges from sandy to clay-loam

Coverage: 1 ounce covers 200 square feet

Wonderful for a border or dry garden; great erosion control. The foliage is soft, textured, and green or bluish, turning orange in autumn. Flowering plumes grow in clumps like bunchgrass. Excellent nesting and roosting site.



INDIAN GRASS SEED (Sorghastrum nutans)

Height: 5' to 7' **Rate of growth:** medium

Soils: ranges from sandy to clay-loam; tolerant

Coverage: 1 ounce covers 200 square feet

Birds love the golden seedheads in autumn. Also great winter interest. Can tolerate wet to dry soils from sand to clay. Plant with Little Bluestem for a fabulous fall combination and landscape backdrop. Full sun.

GRASSES & SEEDS



BCD POLLINATOR SEED MIX

Height: varies **Rate of growth:** med to fast

Soils: formulated for sandy soils

Coverage: 4 ounces covers 500 square feet

Attracts pollinators: bees, wasps, butterflies, moths, beetles, and flies. Includes 13 native wildflowers. Best to plant in proportion to grass mix for better stability on cleared ground; keep moist during germination.



COMMON MILKWEED (*Asclepias syriaca*)

Height: 2' to 5' **Rate of growth:** fast

Soils: sandy, clayey, or rocky calcareous soils

Coverage: Approx 150 seeds/gram

Common variety produces profusion of lavender flowers in mid-summer and is mandatory food source for Monarch caterpillars who feast on the leaves. Can be toxic if ingested.



BEACH GRASS (*Ammophila breviligulata*)

Height: 2' to 3' **Rate of growth:** fast

Soils: sandy soil

Coverage: varies depending on planting grid
Natural erosion control. Grass forms a dense cover in sandy areas. Plant 6"- 8" deep, one stem per hole in a 12" up to 18" square grid, depending on flatland or slopes. 100 plugs per bundle or bunch. Keep roots moist before planting.

Knowing trees, I understand the meaning of patience.

Knowing grass, I can appreciate persistence.

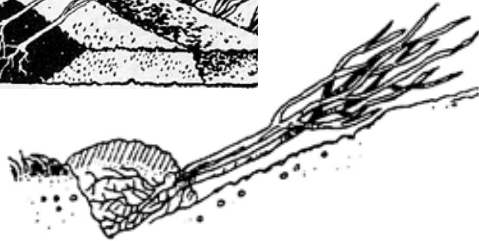
~Hal Borland

Keep Seedling Roots Moist and Protected!

- Plants easily become damaged if roots lose moisture for even a short time.
- Keep roots wrapped in moist paper but do not saturate. Store seedlings up to 48 hours in a cool, moist, shaded place.
- If not able to plant within this time frame, plants can be “heeled in.” Do so by first digging a trench. Unbundle seedlings and spread out in trench. Cover with soil and water in.



Heel In Your Bare-root Seedlings



Plant Your Bare-root Seedlings: Best Practice

Too Shallow
Some roots are
exposed above
ground level



Too Deep
Much of the
stem is in
underground level



J-Roots
Roots are forced
in the hole,
causing root
ends to be
facing up



Just Right!
Root collar is even
with ground level,
roots running down



PRODUCTS



PLANTSKYDD REPELLENT

Safe and effective deer, rabbit, and rodent repellent. Dried blood (porcine and/or bovine) is the main ingredient. Browsing animals smell what they believe is a predator. Reapply as needed.

Powder concentration: 1 lb. makes 4 quarts
Spray bottle: 1 liter, spray for leaves, stems
Granules canister: 1 lb., sprinkle to distribute



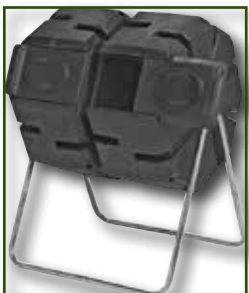
TERRA • SORB

Helps retain the moisture of the roots on the trees when planting. One ounce packet of Terra-Sorb granules covers approximately 1,000 seedlings. If using 1 oz., mix with 1 1/3 gallons of water for dipping bareroot plants. After stirring, turns to gel to coat seedling roots immediately before planting. Can be used on all seedlings.



SUPER HOT® COMPOST STARTER

Great product to use with our compost tumbler! Contains blood meal, bone char, alfalfa meal, kelp meal, pasteurized poultry litter, natural nitrate of soda, feather meal, and peanut meal. 7-lb. resealable bag. Activates eight bushels (approx. 10 cubic feet) of compost materials.



DUAL-BIN COMPOST TUMBLER

Produce high quality compost quickly and efficiently. Let one bin "cook" while you add fresh compost materials to the other side. Two bins rotate separately; each bin holds approximately three cubic feet of compost materials. Recycled plastic. Need to assembly.

PRODUCTS



“TREES PLANTED” SIGNS

Protect your trees, your labor and your money. Alert vehicles and others to “keep off” your Michigan seedlings! These sturdy metal signs are 7” x 12.”



TREE MATS

Coir (natural coconut husk) mats help retain the moisture of the seedling roots and protects from weed growth after planting. Round mat has a diameter of 17” with cutout for tree trunk.



TREE TUBE & STAKE

These seedling protectors are 100% recycled polyethylene (milk jug plastic). They have a tab-flared top to protect seedling from sharp edges. Tube diameter is 4.15” (allows connecting multiple protectors for larger diameter) with vents starting halfway up to allow herbicide spray around the base. Cost per 4-foot tree protector includes one treated stake and ties.

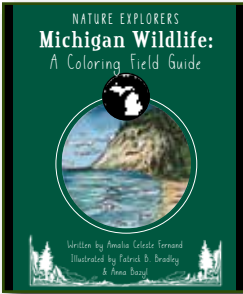


TOPO MAPS

Topographical maps for sections of Benzie County:

Bear Lake	Elberta	Platte River
Benzonia	Empire	Pleasanton
Beulah	Frankfort	Thompsonville
Burdickville	Karlin	
Copemish	Lake Ann	

PRODUCTS



MICHIGAN WILDLIFE: A Coloring Field Guide

Use this fascinating coloring book and field guide to learn about common, and unique Michigan animals. Included is a dictionary, and checklist for observing wildlife in Michigan. Created and written by Amalia Fernand, environmental educator and founder of Nature Explorers, International.



POCKET GUIDES

Handy, laminated foldout pocket guides. 12 choices:

Animal Tracks

Bats

Bees & Other Pollinators

Birds of Prey

Butterflies & Moths

Freshwater Fishes

Michigan Birds

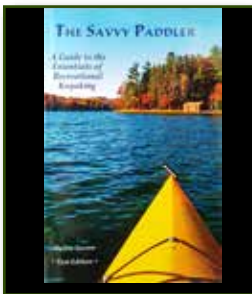
MI Trees & Wildflowers

Michigan Wildlife

Mushrooms

Reptiles & Amphibians

Trout & Salmon



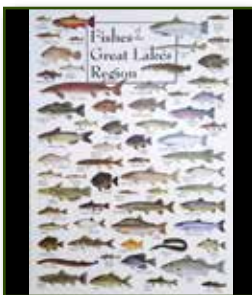
BENZIE COUNTY GUIDEBOOKS, by Jim Stamm

Benzie County Rivers, Lakes & Creeks:

Explore paddling and fishing in Benzie County.

Benzie County Trail Guide: For hiking, biking, x-country skiing, and snowshoeing. All trails within an hour of Traverse City.

The Savvy Paddler: Here's a great guide for recreational kayakers!



NATURE POSTERS

Size: 19" X 27." Printed on 80# coated stock using fade resistant inks; museum quality for framing. Illustrations by Duane Raver, Ellen Edmundson, (famed illustrator for the NY Conservation Dept), and Rick Cech (butterfly poster).

Fishes poster: includes 106 fish species.

Birds poster: includes 94 species.

Butterflies poster: includes 79 species.

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All about White Pine

- *Pinus strobus* L, eastern white pine, is the largest conifer of the eastern and upper Midwest forestes, reaching 150 feet in height and up to 40 inches in diameter.

- Its evergreen needles are in clusters of 5, soft, flexible, 2.5 to 5 inches long, and bluish-green in appearance.



- Its cones are about 4 to 8 inches long and 1 inch thick. The cones remain attached for 1 to several months after ripening in the autumn of the second season.

- Eastern white pine grows on a variety of soils ranging from light, sandy to heavy textured soils.

- *Uses:* The wood of white pine is light, durable, and easy to work. It's good for lumber for toys, boxes, and cabinet work. It is also used occasionally as Christmas trees or ornamental planting in landscaping around homes and office buildings. White pine is frequently used for windbreaks and screens along fields, right-of-ways, and around campsites.



- The eastern white pine has played a very important role throughout the history of America. In colonial days, the best of the trees were set apart by the king for masts on British ships. As the nation grew, the lumber of white pines built our homes and businesses.

- Today it is still a valuable commercial tree but also favored in parks and spacious yards—both for its beauty and its fast growth. It has also been named the state tree of both Maine and Michigan.
- Eastern white pine needles contain five times the amount of vitamin C (by weight) of lemons and make an excellent herbal tea. The cambium is edible.

ORDERS DUE

Friday, September 28

ORDER PICK-UP

Friday, October 12

9:30 am to 5:30 pm

BCD's backyard, off the alley



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