As the snow swirls around in tight circles outside the Conservation District office in downtown Beulah, it's easy to let the mind wander to all the spring planting possibilities coming in just a few short weeks. The BCD is happy to serve you in this capacity and will be offering its usual array of fine, native trees and shrubs, plus a variety of other products to guide you into the spring planting season.

This year, our offerings will be presented in a slightly different format. In the past, we’ve offered a hard copy of the catalog and sent it out via mail, to all (or many) of our previous customers. The catalog was also available for viewing on our website. In an effort to conserve resources, this year we’ll forgo the printed version of the spring seedling catalog and be sending out, via mail, only the order form. For a complete description of all the varieties of trees, shrubs and conservation products we’re offering, please refer to our website, www.benziecd.org. You may also call our knowledgeable staff with questions or even better, stop in for a chat! We’re here to help you make this the most successful planting season you’ve ever had.

In the meantime, we’re all looking forward to a spectacular season of education, day camps, lake and river sampling and monitoring, watershed protection plan implementation, and aquatic invasive species management throughout our beautiful county. There are also a variety of water outings scheduled, plus the ever-popular Betsie River and Platte River clean-ups. Check it all out on our website and look for updates on Facebook.

As a final note, the Benzie Conservation District is up for a millage renewal again this coming August (Aug 7, 2018). Your support in the past has helped us achieve SO many goals over the past eight years, as we pursue our mission to preserve and enhance the natural resources in Benzie County. We couldn’t do it without you – THANK YOU!

All the best,

Tad Peacock,
Executive Director

John Ransom, Conservation Specialist
Aimé Merizon, Outreach Coordinator
Jane Perrino, Aquatic Invasive Species Coordinator
Kama Ross, District Forester
Emily Cook, Invasive Species Outreach Specialist
Scott Hughey, NRCS District Conservationist
Lizzy Freed, MAEAP Technician

STAFF

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BOARD MEMBERS

Ron Heverly, Chair
Roberta Dow, Vice Chair
Bill Henning, Treasurer
Greg Kindig, Director
Caitlin Lorenc, Director

Thanks to these committed sponsors who help make this catalog available to our community:

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280 S. Benzie Boulevard
Post Office Box 408
Beulah, Michigan 49617
CONIFERS

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 6-12”
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.

RED PINE (Pinus resinosa)

**Height:** 60’ to 80’
**Rate of growth:** fast
**Soils:** sandy, well-drained soils
**Size:** bareroot seedlings are 4-8”
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.

NO. WHITE CEDAR (Thuja occidentalis)

**Height:** 30’ to 50’
**Rate of growth:** slow
**Soils:** cool, moist, nutrient-rich soils
**Size:** bareroot seedlings are 3-6”
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.

Conifers: Two Sizes Available*

WHITE PINE (Pinus strobus)

**Height:** 80’ to 150’
**Rate of growth:** fast
**Soils:** light, sandy to heavy textured soils
**Size:** bareroot seedlings are 4-8” for 2-0; and 5-10” for 2-1*
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.

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 5-10” for 2-0; and 8-12” for 2-1*
Christmas-tree shape compliments the yard, good for windbreak and wildlife habitat. Does well in full sun. Wood used for pulp and lumber.

*NOTE: There are two sizes of white pine seedlings: 2-0 (two years old; have not been transplanted) and 2-1: (two years old; one year in a transplant bed).

*NOTE: There are two sizes of white spruce seedlings: 2-0 (two years old; have not been transplanted) and 2-1: (two years old; one year in a transplant bed).
HARDWOODS

**AMERICAN CHESTNUT (Castanea dentata)**
*Height:* 50’ to 75’
*Rate of growth:* fast
*Soils:* moderately acid, sandy loam
*Size:* Bareroot seedlings are 6-12”
Likes morning sun. Wildlife love the sweet nuts which can also be used for stuffing, butters, beer, flour, chips, and so on. Wood is excellent for construction, fencing, furniture.

**NORTHERN RED OAK (Quercus rubra)**
*Height:* 50’ to 70’
*Rate of growth:* fast
*Soils:* all soils; tolerant of drought
*Size:* bareroot seedlings are 6-12”
Long-lived, great source for hardwood lumber. Excellent shade tree; leaves reddish-purple in fall. Acorns preferred by variety of birds and mammals; also good for cover and nesting sites.

**SUGAR MAPLE (Acer saccharum)**
*Height:* 80’ to 120’
*Rate of growth:* slow
*Soils:* all soils; full sun, shade intolerant
*Size:* bareroot seedlings are 18-24”
Sugar maple is the only tree today used for commercial syrup production, as its sap has twice the sugar content of other maple species. Widely planted as an ornamental or shade tree.

**SWAMP WHITE OAK (Quercus bicolor)**
*Height:* 50’ to 100’
*Rate of growth:* fast
*Soils:* prefers moist, well-drained
*Size:* bareroot seedlings are 12-24”
The wood is used for furniture, cabinets, and general construction. Used as a shade tree for large lawns, golf courses, parks. The crown shape and bi-colored leaves (dark above, lighter beneath) are attractive features fall color is yellow, with occasional red/purple.

**TULIPTREE (Liriodendron tulipifera)**
*Height:* 80’ to 120’
*Rate of growth:* fast
*Soils:* prefers moist, well-drained soil
*Size:* bareroot seedlings are 12-24”
Leaves resemble tulip flowers; member of magnolia family. Golden yellow fall color. Greenish-yellow, six-petal flowers yield large quantities of nectar, attracting hummingbirds.

**YELLOW BIRCH (Betula alleghaniensis)**
*Height:* 50’ to 70’
*Rate of growth:* slow
*Soils:* prefers moist, well-drained
*Size:* bareroot seedlings are 12-24”
Tolerates some shade. The wood is used for furniture, cabinetry, charcoal, pulp, veneer, tool handles, boxes, and interior doors. The sap can be tapped for edible syrup. Wildlife enjoy seeds and browsing.

**WHITE BIRCH (Betula papyrifera)**
*Height:* 50’ to 80’
*Rate of growth:* med to fast
*Soils:* various soils; full sun/partial shade
*Size:* bareroot seedlings are 18-24”
Called “paper birch,” often a landscape tree. Birds and small mammals eat the buds and seeds; can be tapped for sap. Used to help reduce erosion, protect aquatic environments, and increase biodiversity.

**WHITE OAK (Quercus alba)**
*Height:* 50’ to 80’
*Rate of growth:* slow to med
*Soils:* various soils; full sun/partial shade
*Size:* bareroot seedlings are 5-10”
Wildlife love sweet white oak acorns. Water and rot resistant; used for wine barrels, flooring, lumber. Excellent shade tree; red-to-purplish fall colors.
** Allegheny Serviceberry (Amelanchier laevis)  
** Height:** 15’ to 25’  
** Rate of growth:** medium  
** Soils:** Moist, well-drained soil; partial sun/shade  
** Size:** bareroot seedlings are 18-24”  

Small, understory tree with four-season interest. It has early spring flowers, orange-red fall color, and gray bark. The edible purplish-black fruit in late summer attracts birds.

** AMERICAN HAZELNUT (Corylus americana)  
** Height:** 15’ to 18’  
** Rate of growth:** med to fast  
** Soils:** various soils; full sun to partial shade  
** Size:** bareroot seedlings are 12-24”

An ornamental tree with sweet, edible nuts, also called filberts. Plant two trees for pollination. Attracts squirrels, deer, turkey, woodpeckers, pheasants and ruffed grouse. Provides cover and nesting sites.

** BUTTON BUSH (Cephalanthus occidentalis)  
** Height:** 5’ to 8’  
** Rate of growth:** fast  
** Soils:** medium to wet moisture levels; sandy soils  
** Size:** bareroot seedlings are 6-12”

Showy flowers (pincushion heads) make it popular for use in gardens, shrub borders, along shores. The fruits give the plant winter interest. Bees attracted to its nectar. Full sun.

** EASTERN REDBUD (Cercis canadensis)  
** Height:** 25’ to 35’  
** Rate of growth:** med  
** Soils:** well-drained soils; adaptable to most  
** Size:** bareroot seedlings are 12-24”

Full sun to light shade. Showy lavender to pink flowers in spring. Ornamental lawn tree for smaller yards. The seeds provide winter food for birds, blossoms attract bees.

** ARROWWOOD (Viburnum dentatum)  
** Height:** 12’ x 12’  
** Rate of growth:** med to fast  
** Soils:** various soils; full sun to partial shade  
** Size:** bareroot seedlings are 18-24”

They have a nice white flower in the spring that attract butterflies, and a blue berry in the fall that is quickly eaten by the birds. Fall color can be a nice red or none at all.

** GRAY DOGWOOD (Cornus racemosa)  
** Height:** 6’ to 8’  
** Rate of growth:** slow  
** Soils:** tolerates variety of conditions  
** Size:** bareroot seedlings are 24-36”

Shade tolerant, but best in full sun. This tough, low-maintenance shrub offers subtle year-round beauty. White flowers in June, and white berries attract many birds. Reddish-pink fruit stems, add a color contrast to the gray bark. Great for borders.

** BLACK ELDERBERRY (Sambucus nigra)  
** Height:** 10’ to 12’  
** Rate of growth:** fast  
** Soils:** Likes moist, well-drained soil  
** Size:** bareroot seedlings are 12-24”

Full sun; drought intolerant. White, fragrant flowers. Berries small, purple-black color. Relished by songbirds and wildlife. Shrub for erosion control; berries used in wines, jams, juice.

** Highbush Cranberry (Viburnum opulus)  
** Height:** 8’ to 12’  
** Rate of growth:** med  
** Soils:** well-drained soils; adaptable  
** Size:** bareroot seedlings are 3-7”

Shade tolerant, but best in full sun. White spring flowers; fruit is bright red or orange; persists through winter. Not eaten by birds until frozen and thawed several times. Fruit used in sauces, jellies and juices.
WILDLIFE TREES & SHRUBS

**NINEBARK (Physocarpus opulifolius)**
- **Height:** 6’ to 9’
- **Rate of growth:** fast
- **Soils:** wide variety of soil types
- **Size:** bareroot seedlings are 15-30”
  - Full sun/part shade. White flower clusters in summer; fruit pods in fall. Great nectar source; fruits eaten by several birds. The bark continuously molts in thin strips, each time exposes a new layer of bark, as if it had “nine lives.”

**PERSIMMONS (Diospyros virginiana)**
- **Height:** 35’ to 40’
- **Rate of growth:** slow
- **Soils:** moist, sandy, and well-drained soils
- **Size:** bareroot seedlings are 12-24”
  - Thrives in full sun. Nice ornamental; leaves turn yellow to red in fall. Fruit can be used in puddings and baking; also provides nectar for pollinators, and food for a wide variety of wildlife.

**SILKY DOGWOOD (Cornus amomum)**
- **Height:** 6’ to 10’
- **Rate of growth:** med to fast
- **Soils:** prefers moist, poorly drained soils
- **Size:** bareroot seedlings are 6-12”
  - Shade tolerant. Use this species for field and farmstead windbreaks, wildlife borders, and streambank protection. Also a nice ornamental. Blueish berries, sometimes called “indigo dogwood.”

**RED OSIER DOGWOOD (Cornus sericea)**
- **Height:** 6’ to 10’
- **Rate of growth:** med to fast
- **Soils:** prefers wetland, along streams/ponds
- **Size:** bareroot seedlings are 6-12”
  - Full sun to light shade. Often called red willow. White flowers and berries; bark and leaves red in autumn. Soil stabilizer, landscape border. Attracts turkey, ruffed grouse, bobwhite, pheasant.

**WHITE FLOWERING DOGWOOD (Cornus florida)**
- **Height:** 10’ to 25’
- **Rate of growth:** med
- **Soils:** Likes moist, well-drained soil
- **Size:** bareroot seedlings are 12-18”
  - Showy blossoms and attractive fall foliage. Full sun to partial shade. Many birds varieties and upland game birds (e.g. wild turkey) consume the seeds. Also provides shelter and habitat for many wildlife species.

**WINTERBERRY (Ilex verticillata)**
- **Height:** 8’ to 12’
- **Rate of growth:** slow
- **Soils:** wetlands to drier soils
- **Size:** bareroot seedlings are 18-24”

**SASKATOON (Amelanchier alnifolia)**
- **Height:** 6’ to 8’
- **Rate of growth:** med to fast
- **Soils:** prefers wetland, along streams/ponds
- **Size:** bareroot seedlings are 3-5”
  - NORTHLINE- A free suckering variety that reaches 6-8 feet at maturity. heavy producer of large 16mm berries that have an excellent sweet taste. Zones 2-5
BIG BLUESTEM (Andropogon gerardii)
Height: 6’ to 8’
Rate of growth: medium
Soils: medium to well drained soils; adaptable
Coverage: 1 ounce covers 200 sq ft
Attracts butterflies; deer resistant; acts as claybuster. In late summer produces 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 sq ft
Wonderful for a border or dry garden; great erosion control. Foliage is soft, textured, and green or bluish, turning orange in autumn. Flowering plumes grow in clumps. Excellent nesting/roosting site.

INDIAN GRASS SEED (Sorghastrum nutans)
Height: 5’ to 7’
Rate of growth: medium
Soils: sandy to clay-loam; tolerant
Coverage: 1 ounce covers 200 sq ft
Birds love the golden seedheads in autumn. Also great winter interest. Can tolerate wet to dry soils from sand to clay. Plant with Little Blue-stem for a fabulous fall combination and landscape backdrop. Full sun.

BEACH GRASS (Ammophila breviligulata)
Height: 2’ to 3’
Rate of growth: fast
Soils: sandy soil
Coverage: depends 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.

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 sq ft
Deep-rooted fescues as 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!

BCD POLLINATOR SEED MIX
Height: varies
Rate of growth: med to fast
Soils: formulated for sandy soils
Coverage: 4 oz. covers 500 sq ft
Attracts pollinators: bees, wasps, butterflies, moths, beetles, and flies. Includes 13 native wildflowers. Plant in proportion to grass mix for better stability on cleared ground; keep moist for germination.

COMMON MILKWEED (Asclepias syriaca)
Height: 2’ to 5’
Rate of growth: fast
Soils: sandy, clay, 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.

Crystal Lake & Watershed Association
Protecting the integrity of Crystal Lake in Benzie County now and for the future
231.882-4001
crystallakewatershed.org
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

Ready-to-use liquid:
85 oz. (5 liters)

Spray bottle:
1 liter, spray for leaves, stems

Granules canister:
1 lb., sprinkle to distribute

MOSQUITO BARRIER
Repels mosquitos from yard.
Poison-free, natural and lasts 2—4 weeks. Quart bottle will provide coverage for the average yard for one full summer. One gallon covers five acres. The liquid is 99% pure garlic extract; it typically becomes odorless 20 minutes after application.

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.

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.

“TREES PLANTED” SIGNS
Protect your trees, your labor and your money. Alert others to not trample your plantings with these sturdy, 7” x 12” metal signs.

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.

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. Activates eight bushels (approx. 10 cubic feet) of compost materials. Comes in a 7-lb. resealable bag.

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 (continued)

TOPO MAPS
Topographical maps for sections of Benzie County:

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

POCKET GUIDES
Handy, laminated foldout pocket guides:

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
"Benzie County Rivers, Lakes & Creeks": Explore paddling and fishing in Benzie County. Great details for canoers, kayakers, and paddlers of all types.
"Benzie County Trail Guide": For hiking, biking, x-country skiing, and snowshoeing. All trails within an hour of Traverse City. Both guides by local author, explorer and IT professional, Jim Stamm.

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

Fishes poster: includes 106 fish species.
Birds poster: includes 94 species.
Butterflies poster: includes 79 species.

TEE SHIRTS
Show support for your conservation district in style! Two styles, unisex sizes XS, S, M, L, XL, XXL:

“BCD logo” on heather gray tee.
“Benzie River Steward” tee, heathered teal.

“West Shore Bank
Making a real difference
www.westshorebank.com

“If you truly love nature, you will find beauty everywhere.”

~ Vincent Van Gogh
Orders due  Friday, April 13, 4:30 pm
Pick-up date  Friday, April 27 • 9:30 a.m. to 5:30 p.m.
Where  Beulah Park Pavilion, Beulah, MI