

Benzie Conservation District
We Make Caring For the Environment Easy for You!

Seedling Sale Fundraiser

Spring 2010



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District Administrator

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OUR MISSION

*To encourage and assist
people in preserving,
managing and enhancing
Benzie County's
natural resources through
services, education and
demonstrations.*

This catalog is generously
sponsored by the following
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conservation efforts in
Benzie County:

Cherryland Electric

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National Bank**

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L&S Nursery



www.cecelec.com

Seedling Orders Due:
Friday, April 2nd

Seedling Pick-up Dates:
Friday, April 16th
9:00am – 4:00pm
and
Saturday, April 17th
9:00am – 2:00pm

Where:
Beulah Village Park Pavilion
Downtown Beulah,
On Crystal Lake

Conifers

Balsam Fir

Abies balsamea

Aromatic tree with strong, soft needles. Popular uses include balsam pillows and Christmas trees. Plant for color and cover in northern hardwoods. 18', 60'

Jack Pine

Pinus banksiana

The hearty jack pine lives where no other tree can survive! If you have a dry, barren area, jack pine is your tree. 30', 80'

Red Pine

Pinus resinosa

Fast growing pine for sandy soils. Straight, tall stems create natural fence or windbreak. Plant a red pine plantation as an investment. 30', 80'

White Cedar

Thuja occidentalis

A long-lived tree known historically for medicinal uses, appreciated by Cedar Waxwing songbirds and deer. 25', 50'

White Pine

Pinus strobus

Michigan's State Tree. Soft needles welcome a variety of songbirds. Whorls of distinguished branches with windswept appearance provide privacy and protection from wind. Favored by the turkey as a roost tree. 40', 150'

White Spruce

Picea glauca

Christmas-tree shape and blue-green needles compliment your yard. Holds branches to the ground for full wind-break and wildlife habitat. The best spruce for wet sites. 30', 100'

Hardwoods

American Chestnut

Castanea dentate

This once dominant canopy tree of the eastern forest is given a hopeful prospect, free of the blight that killed its grandfather. Its sweet nuts were once use as an essential ingredient for traditional stuffing. White flowers appear in late spring, early summer. Fast growing. 35', 115'

http://www.acf.org/Legacy_Tree.php

Black Cherry

Prunus serotina

Birds love this fast growing tree for its sweet fruits. Tolerant of shade in its youth, this tree grows into valuable timber. 40', 80'

Black Walnut

Juglans nigra

A widely planted tree, highly regarded for top quality lumber. Enjoys rich, fertile soils. Trees of nut-bearing age provide food for wildlife. 35', 100'

Red Oak

Quercus rubra

A large, long-lived, fast-growing tree great for timber and wildlife. Leaves turn reddish-purple in the fall. 36', 81'

White Birch

Betula platyphylla japonica

Snow-white peeling bark, gives outstanding year round beauty. 40', 70'

White Oak

Quercus alba

Gorgeous winter silhouettes. All species of wildlife love sweet white oak acorns! Thrives in sunny dry conditions. 25', 100'

Small Wildlife Trees

American Plum

Prunus americana

Shapely, spring flowering tree. Fruit excellent for attracting birds and other wildlife. 24', 24'

Eastern Redbud

Cercis Canadensis

Eastern redbud is a small, delicate tree. It is strikingly conspicuous in the spring because of its small pink blossoms. It is a member of the pea family so their fruit develop into 4-5" pods which add winter interest. 25', 30'

American Mountain Ash

Sorbus Americana

The orange-red berry is highly prized by the ruffed grouse, red-headed woodpecker, bluebird and oriole. 30', 40'

Serviceberry

Amalanchier canadensis

A very early flowering shrub, perfect white flowers appear in clusters early in the spring. A great habitat for planting. 20', 23'



Serviceberry Blossom

Numbers listed after each species indicate average maximum height at 20 years of maturity and at lifetime maturity, consecutively.

Height information was obtain at <http://plants.usda.gov/index.html>. More information including planting techniques and nutrient requirement can be found using this resource.

Wildlife Shrubs

Gray Dogwood

Cornus racemosa

A dogwood for dryer sites. Its dense multi-stemmed form makes a great border. Ornamental white berries and flowers appear within 3-5 years. 6', 10'

Highbush Cranberry

Viburnum trilobum

Maple-like leaves and showy white flowers. Scarlet fruit persists through winter, making this a crucial wildlife food source. 6', 6'

Redosier Dogwood

Cornus stolonifera

Deep red bark, dark green leaves, and creamy white flowers. Fruit blossoms in late summer and early autumn. 12', 12'

Tree Packets

Tree packets are a perfect way to plant a variety of trees in a small area.

Michigan Native Bird & Wildlife Packet~18 Plants

Two each of: Black Cherry, Crabapple, Chinquapin Oak, Elderberry, Gray Dogwood, Hawthorn, Mulberry, Pink Oak, and Silky Dogwood.

Michigan Native Hardwood Packet 8 Trees

Includes two of each: American Chestnut, Black Walnut, Butternut, and Hazelnut.

Shade Tree Packet 20 Trees

Includes four of each: English Oak, Northern Red Oak, Sawtooth Oak, Hybrid Poplar, and Black Cherry.

Wildlife Fruit Tree Packet 3 Trees

This is a generic species of this fruit tree which is compatible to the soils and weather generally found in Benzie County. The intent of offering these fruit trees is to enhance the wildlife habitat in Benzie County.

Select fruit type: Apple, Cherry, or Pear tree varieties.

Tips For Your Planting Weekend

All conifer, hardwood and shrub seedlings are bare root. They will be packaged in shredded paper or moss. For best survival, plant them right away. Store seedlings in a cool place until planting, and keep moist. Heel them into soil if you cannot plant within 48 hours.

Conservation Products

Offered all year long!

Plantskydd

Effective and 100% natural and safe for deer, rabbit, and other grazing animals. Domestic and wild animals are not harmed by Plantskydd, but will be repelled by odor that lasts up to six months. Ingredients are all natural materials and safe in your vegetable garden. The main ingredient is blood meal with a vegetable fat binder. Animals will **avoid plants before they bite, not after.** Treat the plant foliage, new growth, and blossoms. Plantskydd really sticks, so avoid residue by not applying to fully formed



fruit and vegetables. We handle Plantskydd in a 1 lb or 2.2 lb powder containers which when mixed with water (coverage is 200 to 300 plants for 1lb or 400 to 600 plants for 2.2 lbs) or in a liquid form which is in a 1.06 quart container (coverage 100 plants). Complete instructions with more detailed information comes with the product.

'Trees Planted' Signs

Protect your trees, your labor and your money. Alert others to not trample your plantings. 7" x 12"

Terra-Sorb Planting Gel

Helps to retain the moisture of the roots on the trees when planting. 1 ounce packet treats 1000 seedlings.

Stop by and see our complete topographical map selection:

- Bear Lake
 - Benzonia
 - Beulah
 - Burdickville
 - Copemish
 - Elberta
 - Empire
 - Frankfort
 - Karlin
 - Lake Ann
 - Platte River
 - Thompsonville
- \$10 each**

Native Grass Seed

100% Pure Certified Michigan Native Seeds.
Plant all grass seeds in full sun and dry soils.
Seeds come in 1 ounce packets.
Each packet covers 200 square feet.

Indian Grass

Sorghastrum nutans

Birds love the silky-soft, golden seedheads in autumn. Also offers great winter interest. Can tolerate wet to dry soils from sand to clay. Plant with Little Bluestem for a fabulous fall combination and as a backdrop in your landscape. 5-8'

Little Blue Stem

Schizachyrum scoparium

Wonderful for a border or dry garden, this grass is used when erosion control is needed. The foliage is soft, textured, & either green or bluish purple, turning flame orange in autumn. Fluffy, flowering plumes grow in any soil except boggy. 2-3'

Native Wildflower Seed

100% Pure Certified Michigan Native Seed.
3.5 gram packets cover 25 sq. ft.

Hoary Vervain

Verbena stricta

The deep root system helps in resisting drought and is commonly seen in fields and prairies. The flowers are usually less than 1/2" across and coarse hairs cover the stems and leaves. Growing 2'-4' tall it blooms summer to early fall. Livestock avoids the plant because of it's bitter juice.

Wildflower Seed Mix

Eighteen wildflower and two grass varieties in this colorful mix. Specially mixed to plant in sandy soils. Butterfly weed, Coneflower, Lupine, Hoary Vervain and Wild Bergamont.



Hunter's Corner

Our partnership with the Wild Turkey Federation makes the following seed mix possible.
25 lb. bag cover one acre

Wildlife – Michigan Soybean Seed Mix

Includes soybean, sunflower, millet and buckwheat seed which provide excellent wildlife cover and food, especially for turkey and deer.

Special Grasses

Dune Grass

Ammophila breviflora

American beach grass (dune grass) is a tough, coarse, perennial with creeping rhizomes and dense, spike-like seed heads. It is harvested in Mason County and has proved to be the best plant for initial stabilization of moving sand. Excellent means of natural erosion control. Grows in pure sand.

Distributed bare root in bundles of 500 plants.
Plant 1-3 clumps per hole at 18" x 18" spacing.
One bundle covers up to 1,000 square feet.

Eco-Turf Grass

Cut back on lawn maintenance time and costs! Seven slow-growing, deep-rooted fescues as an alternative to traditional turf grass mixes. They do not require intense watering, mowing or fertilizing. If manicured appearance is required, you can mow but less frequently than the usual turf grass. You can choose not to mow and enjoy a soft look and feel for your lawn.

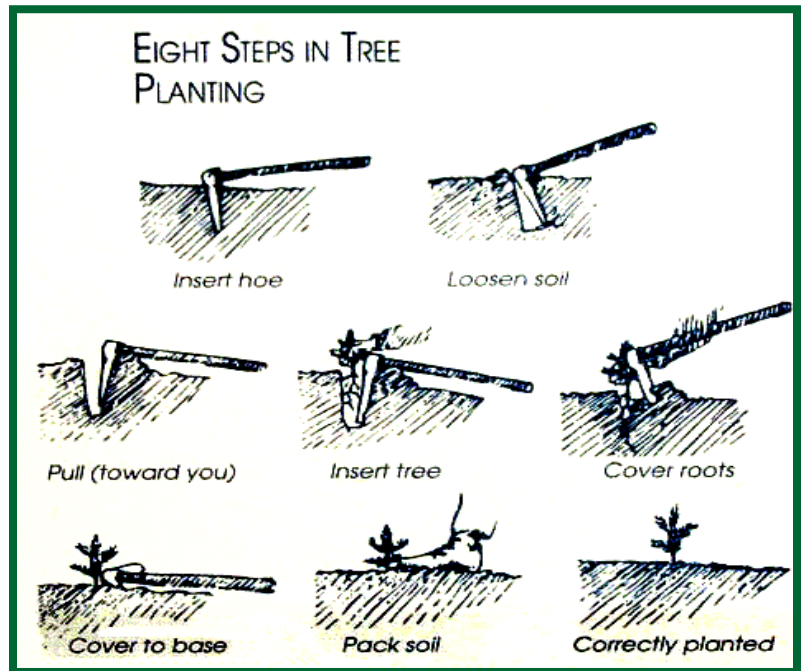
Best to plant mid-late August through September.
Seeding mid-late March through April also possible.
1 lb./ 200 sq. ft., 10 lbs./2,000 sq. ft., 25 lb./5,000 or 200 lbs/acre



North Star Organics
 1139 Forrester Road
 Frankfort, Michigan 49635 USA

231.352.4865

PLANTING GUIDE FOR YOUR SITE AND PURPOSE



Source: www.firrunnursery.com

* Species listed may not be available in this catalog. Ask for future availability.

Waterside: Balsam fir, black spruce, hemlock, white cedar, tamarack, white pine,

Buffer Strips: White spruce, quaking aspen, swamp white oak, birch, highbush cranberry, ninebark, red-osier dogwood, great blue lobelia, blue flag iris, swamp milkweed

Poor Soils: Red pine, jack pine, white oak, serviceberry, chokecherry, blueberry, Nanking cherry, big blue-stem grass, switch grass, sand tick seed, wildflower seed mix, dune grass, butterfly weed, junegrass, lanceleaf coreopsis, ox-eye sunflower, purple coneflower, purple prairie smoke, rough blazing star, showy goldenrod

Wildlife Cover: All conifers and quaking aspen, planted 6' x 6' spacing. All small "wildlife" trees and shrubs, planted 4' x 4' spacing, switch grass, wildlife seed mixes.

Wildlife Food & Flowers: All small "wildlife" trees and shrubs, all oaks, black cherry, aspen, butterfly weed, great blue lobelia, all grasses, all wildflowers.

Windbreak & Privacy Screens: Black spruce, white spruce, white pine, white and red cedar, hazelnut, crabapple, dogwood, highbush cranberry.

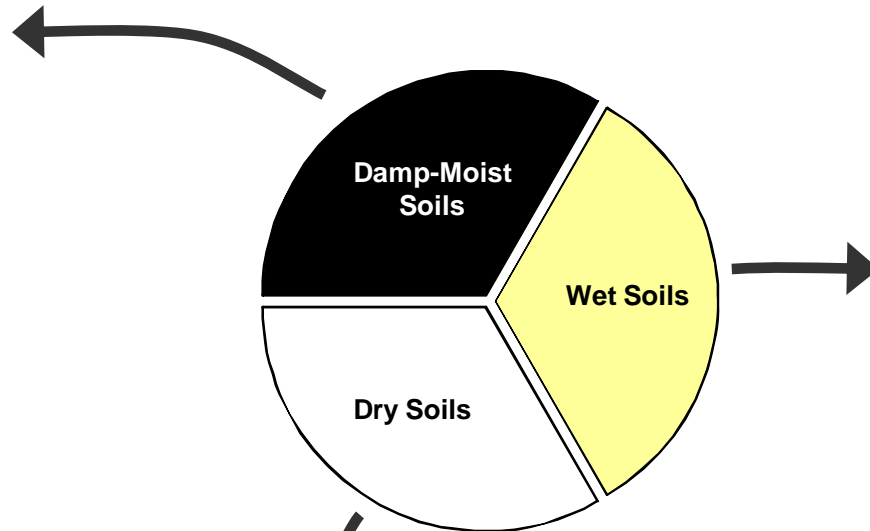
Fast Growing: Red pine, white pine, quaking aspen, tulip tree, white birch, lanceleaf coreopsis.

Unique Characteristics: Tamarack, birch, red-osier dogwood, bottlebrush grass, cardinal flower, balsam and white fir, hemlock, tulip tree, eastern redbud, flowering dogwood

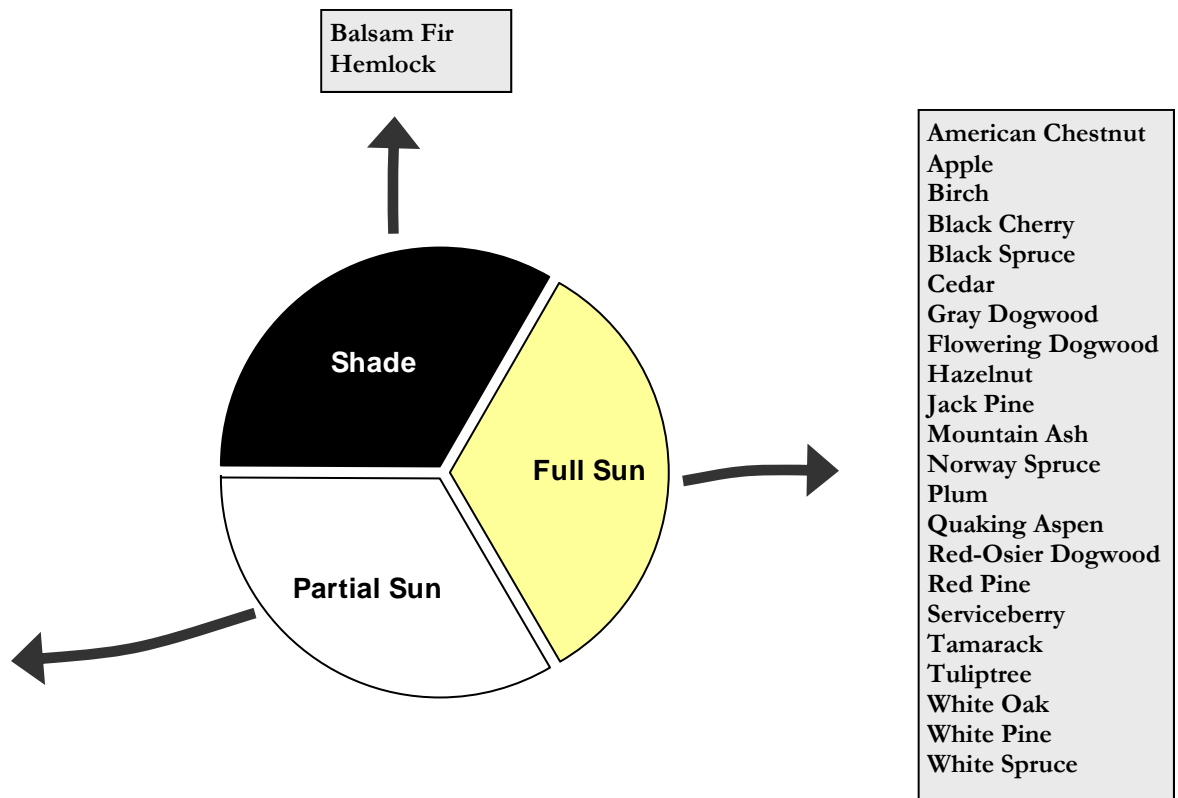
Groundcovers: Bearberry, bunchberry, wild ginger.

Planting Guide

- S O I L



L I G H T



Do You Need Assistance Planting Your Trees?

The Benzie Conservation District is sharing this information as a public service

Only Machine Planting

Neil Nystrom 889-4101 Onekama
Richard Cooper 325-2175 Honor

Only Hand Planting

Brian Jarvinen 590-9198 Manistee
Jim Grabowski 864-3357 / 590-7284 Bear Lake
Richard Runnels 231-266-5102 Irons

Machine or Hand Planting

Steve Redman 689-0423 / 414-0044 White Cloud

Beach Grass Planting

Jim Grabowski 864-3357/590-7284 Bear Lake
Paul Swidorski 723-7244/510-8375 Manistee
George Schafer 864-2020 Bear Lake
Jason Thompson 231-464-5908 Free Soil
Paul Hanus 889-3015/233-3267 Manistee
Deane Wassink 616-218-2474 Holland



231-352-4440

www.baysideprintinginc.com

L&S TREE HEALTH CARE SERVICE & NURSERY

Interlochen, Michigan

Phone/Fax: 231.275.0208

www.lsnursery.com

NRCS Local Soil Survey

by Scott Hughey, NRCS District Conservationist

There is a tool available to assist with decision making on your land: the Benzie's Soil Survey. The Benzie Soil Survey was completed in 2004 and is available to you from the Benzie Conservation District or online at <http://websoilsurvey.nrcs.usda.gov/app/HomePage.htm>. Whether you manage 1 acre or 1000 acres, there is information in a soil survey that will benefit you and your land.

Farmers can obtain a wealth of information from the survey useful for analyzing the yield potential of their land. The soil survey can tell you the amounts of silt, sand, and clay you have in your soil, as well as the yield potential for major crops grown in our area, including forage grasses.

Soil survey data facilitates management planning, identifying best conservation practices and appraising the productive capacity and the value of forest land. Soil surveys also provide evaluations of soils for specific trees.

When looking to purchase a new piece of land, soil surveys hold key information that can be a great help in evaluating the property's potential. Soil maps present soil-related hazards that may damage structures or hinder installation, as well as offer alternate sites with more favorable soil properties. Structural designs can also be changed to compensate for some of these hazards. Soil maps and descriptions can also help in planning development in accordance with soil capabilities and limitations.

Many soil properties affect the construction and maintenance of roads, pipelines, buildings, and other structures. Among the important soil properties described in soil surveys are:

- Natural soil drainage
- Permeability
- Infiltration rate
- Flood hazard
- Depth to water table
- Seasonal wetness
- Depth to bedrock, stoniness
- Erodibility
- Acidity and alkalinity
- Load bearing capacity
- Slope
- Content of sand, silt, and clay
- Shrink-swell potential
- Risk of Corrosion
- Soil structure

Soil surveys can help determine best routes for roads and pipelines and help anticipate potential soil-related hazards during construction. They also help to locate potential sources of sand and gravel and help determine the kind of material present in areas where excavation is required.

Your Benzie Conservation District staff is available to answer any questions you may have. Contact them at (231) 882-4391.

More on the Natural Resources Conservation Service (NRCS)

The Benzie Conservation District in partnership with the NRCS has managed to bring in \$39,960 for the 2010 fiscal year for the Conservation Stewardship program (CPS). More funds for the EQIP and WHIP programs are also expected to be allocated this year in Benzie County.

Volunteers Needed!

Give us a call if you would like to
help with the Spring Seedling Sale!

Time slots are available on

Wednesday, April 14 and
Thursday, April 15, to pack orders.

On the pick-up days of
April 16 and 17, we're looking for
a few folks to help with customers;
coffee and donuts Included!

**Watch for the Perennial Plant Sale
Catalog in April**

*Visit us on the web at
www.benziecd.org*



This catalog has been printed on paper
that is Green Seal Certified® 30%
recycled post-consumer fiber and is
acid and lignin free.



***Benzie Conservation District
280 S. Benzie Blvd.
P.O. Box 408
Beulah, MI 49617***

**BENZIE COUNTY
CONSERVATION DISTRICTS**

***231 882 4391
www.benziecd.org***

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West Michigan Bank & Trust

<http://www.wmibt.com>



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Beulah, MI
Permit No. 2
(ECR)²

Spring Seedling Sale Fundraiser 2010



Benzie Conservation District Spring Seedling Sale 2010

Order Form

for Spring Fundraiser



Orders Due: Friday, April 2, 2010

Pickup Dates: Friday and Saturday, April 16 & 17

Name: _____

Address: _____

City, State, Zip: _____

Phone: _____ **Email:** _____

<i>Conifers</i>	Size	<i>Number of Trees</i>					Quantity	Cost
		1000	500	100	50	25		
Red Pine 3-0	8-14"	\$199	\$115	\$45	\$29	\$18		
White Pine 3-0	8-14"	\$205	\$118	\$45	\$29	\$18		
White Spruce 2-0	6-12"	\$195	\$108	\$43	\$28	\$17		
<i>Notice Change →</i>		<i>Number of Trees</i>					<i>←Notice Change</i>	
		500	100	50	25	10		
Balsam Fir 3-0	6-12"	\$150	\$60	\$35	\$22	\$12		
Jack Pine 2-0	6-12"	\$80	\$32	\$19	\$13	\$9		
White Cedar 2-1	5-10"			\$47	\$29	\$15		
Hardwoods			100	50	25	10		
Black Cherry 1-0	8-12"		\$50	\$30	\$20	\$10		
Red Oak 1-0	6-12"		\$55	\$40	\$27	\$13		
Black Walnut	6-12"		\$50	\$30	\$20	\$10		
White Birch 1-0	8-15"		\$65	\$37	\$25	\$12		
White Oak 2-0	10-20"		\$85	\$52	\$31	\$15		
American Chestnut	10-20"	<i>\$3.00 each</i>						
Small Wildlife Trees			100	50	25	10		
American Plum 1-0	6-12"		\$83	\$56	\$35	\$18		
Eastern Redbud 1-0	6-12"		\$83	\$56	\$35	\$48		
Mountain Ash 2-0	8-15"		\$85	\$52	\$31	\$15		
Serviceberry 1-0	4-8"		\$45	\$29	\$18	\$11		
Wildlife Shrubs			100	50	25	10		
Highbush Cranberry 1-0	3-8"		\$50	\$30	\$20	\$10		
Red-osier Dogwood 2-0	10-15"		\$32	\$19	\$12	\$7		
Gray Dogwood 1-0	6-12"		\$41	\$24	\$15	\$9		
Tree Packets			Price Per Packet					
Native Bird Packet (16 plants)	1-2 feet		\$25					
Native Hardwood Pkt (12 trees)	1-2 feet		\$25					
Shade Tree Packet (20 trees)	1-2 feet		\$19					
<i>(Subtotal This Page - Add on Other Side for Grand Total)</i>							Page 1 Subtotal:	

Order Form For the April 2010 Fundraiser

Orders Due: April 2, 2010



<i>New! Fruit Trees</i>	Size	Price/bundle of 3	No.of bundles	Cost
Apple ~ generic	5'	\$35		
Cherry ~ generic	5'	\$35		
Pear ~ generic	5'	\$35		

Dunegrass and Seeds	Size	Price		Quantity	Cost
Grass Seed: Indian or LBS	1 oz.	\$1.75			
Hoary Vervain	3.5 g.	\$5.00			
Wildflower Seed Mix (Sandy)	3.5 g.	\$3.50			
Wildlife Seed Mix - Soybean	25 lb.	\$32.00			
Dunegrass (500 per bundle)	2-3 feet	\$53.00			
Eco-Turf Grass Seed	1 lb.	\$7.50			
Eco-Turf Grass Seed	10 lb	\$60.00			
Eco-Turf Grass Seed	25 lb.	\$125.00			

Conservation Products	Size		Price	Quantity	Cost	
Planskydd Liquid Repellent	1 qt.		\$24			
Planskydd Powder Repellent	1 gal.		\$26			
Planskydd Liquid Repellent	1 gal.		\$56			
"Trees Planted" Signs	7"x12"		\$2.00			
Terrasorb Planting Gel	1 oz.		\$3.50			
			Total from This Page:			
			Total from Page One:			
Mail with Payment to: Benzie Conservation District P.O. Box 408 Beulah, MI 49617 (231) 882-4391			Handling Fee:		\$3.00	
			Subtotal:			
			Add 6% Sales Tax (include handling fee):			
			Grand Total:			

Thank you for your support and happy planting!

