



Muskegon Conservation District
Spring Seedling Fundraiser Catalog 2010

Orders Due:
April 2, 2010



Pick Up Date:
April 17, 2010

Your Local Resource for Natural Resources

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Hours:
7:30 am to 5:30 pm
(Tuesday-Friday)
www.muskegoncd.org

DONATIONS:

Your donations are tax deductible under Section 170(c)(1) of the Internal Revenue Code and can be mailed to the address above. Thank You!

Muskegon Conservation District 2010 Spring Seedling Fundraiser

- **Order Deadline is April 2, 2010.**
- Orders will be filled in the order in which they are received.
- Refunds or replacements will be offered for sold out stock. While we will make our best effort to satisfy every order, we cannot guarantee every order will be filled completely.
- Orders of **\$100.00 or less** must be **paid in full** at time of order. Orders exceeding \$100.00 will require a 25% deposit at time of order. Balance is due at time of pick up.
- A full refund will be granted for orders cancelled by phone or letter prior to April 2, 2010. Orders cancelled after that date will be refunded the total of the order less a 25% service charge.
- **No refunds** will be given for orders not picked up by 5:00 pm, Wednesday, April 21, 2010.
- **PICK UP** **April 17 (Saturday) 9:00 am – 12:00 pm**
- **Extra stock sold** **April 17 (Saturday) 1:00 pm – 3:00 pm**
April 20-23 (Tues - Fri) By appointment only
- You are responsible for checking your order for completeness at time of pick up. A table is provided for your convenience. Once your order has been taken to your vehicle we are no longer liable for missing items.
- Due to the nature of the stock and the variables in handling and planting, there is no guarantee on live plants. The Conservation District is not liable for any direct, indirect, special, incidental, or consequential damages claimed by the customer.
- *It is unlawful for these trees, shrubs and other plants to be resold with the roots attached, in accordance with the Insect Pest and Plant Disease Act, P.A. 189 of 1931, as amended.*

Determining Seedling Age

To find out the age of a seedling, add the first and second numbers together. The first number is the number of years the seedling was in the nursery bed; the second number indicates the number of years in the transplant bed. The older the stock, the larger the root system and diameter of the stem. (3-1) is a four year old plant that has spent three years in a nursery bed and one year in a transplant bed.

Check out our selection of Native Species!

All the starred (*) species are native to Michigan. Native species have adapted over the eons to Michigan's soils and climate. By planting them we provide the food and habitat necessary for our native wildlife. The use of native species encourages a wide variety of plants in the landscape, and this diversity nurtures animals, many of which rely on specific sources for food and shelter.

Volunteer Opportunities

Volunteers are needed to pack trees and fill orders Thursday, April 15 through Saturday, April 17. Volunteers will receive a free Conservation District travel mug or recycled cotton tote bag. For more information, contact us at 231-773-0008.



Muskegon Conservation District 2010 Spring Seedling Fundraiser Price List

Your Local Resource for Natural Resources

Conifer Seedlings/Transplants	Scientific Name	10	25	50	100	500	1000
Cedar, Red Seedling *	<i>Juniperus virginiana</i>	\$11	\$22	\$41	\$73	\$325	\$488
Cedar, White Seedling *	<i>Thuja occidentalis</i>	\$18	\$38	\$69	\$124	\$550	\$825
Fir, Balsam Transplant *	<i>Abies balsamea</i>	\$24	\$52	\$94	\$169	\$750	\$1,125
Fir, Concolor Seedling	<i>Abies concolor</i>	\$6	\$12	\$23	\$41	\$180	\$270
Fir, Douglas Seedling	<i>Pseudotsuga menziesii</i>	\$6	\$12	\$23	\$41	\$180	\$270
Fir, Fraser Transplant	<i>Abies fraseri</i>	\$28	\$58	\$106	\$191	\$850	\$1,275
Pine, Jack Seedling *	<i>Pinus banksiana</i>	\$5	\$10	\$19	\$34	\$150	\$225
Pine, Red Seedling *	<i>Pinus resinosa</i>	\$6	\$12	\$23	\$41	\$180	\$270
Pine, White Seedling *	<i>Pinus strobus</i>	\$6	\$12	\$23	\$41	\$180	\$270
Spruce, Blue Seedling	<i>Picea pungens</i>	\$5	\$11	\$20	\$36	\$160	\$240
Spruce, Blue Transplant	<i>Picea pungens</i>	\$16	\$33	\$60	\$108	\$480	\$720
Spruce, Norway Seedling	<i>Picea abies</i>	\$5	\$11	\$20	\$36	\$160	\$240
Spruce, Norway Transplant	<i>Picea abies</i>	\$16	\$33	\$60	\$108	\$480	\$720
Spruce, White Seedling *	<i>Picea glauca</i>	\$5	\$11	\$20	\$36	\$160	\$240
Spruce, White Transplant *	<i>Picea glauca</i>	\$16	\$33	\$60	\$108	\$480	\$720
Tamarack Seedling *	<i>Larix laricina</i>	\$19	\$39	\$71	\$128	\$570	\$855

Deciduous Seedlings	Scientific Name	10	25	50	100
Aspen, Quaking *	<i>Populus tremuloides</i>	\$15	\$31	\$56	\$101
Birch, River *	<i>Betula nigra</i>	\$16	\$33	\$60	\$108
Birch, White *	<i>Betula papyrifera</i>	\$21	\$45	\$81	\$146
Birch, Yellow *	<i>Betula alleghaniensis</i>	\$24	\$52	\$94	\$169
Chestnut, American *	<i>Castanea dentata</i>	\$20	\$41	\$75	\$135
Cherry, Black *	<i>Prunus serotina</i>	\$13	\$27	\$49	\$88
Hackberry *	<i>Celtis occidentalis</i>	\$24	\$52	\$94	\$169
Maple, Red *	<i>Acer rubrum</i>	\$15	\$31	\$56	\$101
Maple, Silver *	<i>Acer saccharinum</i>	\$15	\$31	\$56	\$101
Maple, Sugar *	<i>Acer saccharum</i>	\$15	\$31	\$56	\$101
Oak, Red *	<i>Quercus rubra</i>	\$11	\$22	\$41	\$73
Oak, White *	<i>Quercus alba</i>	\$11	\$22	\$41	\$73
Poplar, Tulip *	<i>Liriodendron tulipifera</i>	\$15	\$32	\$59	\$106
Walnut, Black *	<i>Juglans nigra</i>	\$10	\$21	\$38	\$68

Small Tree & Shrub Seedlings	Scientific Name	10	25	50	100
Ash, American Mountain *	<i>Sorbus americana</i>	\$14	\$30	\$55	\$99
Arrowwood *	<i>Viburnum dentatum</i>	\$18	\$37	\$68	\$122
Buttonbush *	<i>Cephalanthus occidentalis</i>	\$21	\$45	\$81	\$146
Crabapple, Sargent	<i>Malus sargentii</i> 'Roselow'	\$18	\$38	\$69	\$124
Cranberry, Highbush *	<i>Viburnum trilobum</i>	\$22	\$47	\$86	\$155
Elderberry, Common *	<i>Sambucus canadensis</i>	\$13	\$27	\$49	\$88
Dogwood, Flowering *	<i>Cornus florida</i>	\$24	\$52	\$94	\$169
Dogwood, Gray *	<i>Cornus racemosa</i>	\$12	\$26	\$48	\$86
Dogwood, Red-osier *	<i>Cornus stolonifera</i>	\$12	\$26	\$48	\$86
Dogwood, Silky *	<i>Cornus amomum</i>	\$12	\$26	\$48	\$86
Hazelnut, American *	<i>Corylus americana</i>	\$16	\$33	\$60	\$108
Hawthorn, Washington	<i>Crataegus phaenopyrum</i>	\$18	\$37	\$68	\$122
Lilac, Common	<i>Syringa vulgaris</i>	\$9	\$19	\$35	\$63
Nannyberry *	<i>Viburnum lentago</i>	\$16	\$34	\$63	\$113
Ninebark *	<i>Physocarpus opulifolius</i>	\$8	\$17	\$30	\$54
Osage Orange *	<i>Maclura pomifera</i>	\$28	\$59	\$108	\$194
Plum, American *	<i>Prunus americana</i>	\$14	\$30	\$55	\$99
Redbud, Eastern *	<i>Cercis canadensis</i>	\$19	\$39	\$71	\$128
Serviceberry (Juneberry) *	<i>Amelanchier canadensis</i>	\$17	\$36	\$65	\$117
Spicebush *	<i>Lindera benzoin</i>	\$28	\$58	\$106	\$191
Snowberry *	<i>Symphoricarpos albus</i>	\$28	\$58	\$106	\$191
Viburnum, Maple Leaf *	<i>Viburnum acerifolium</i>	\$14	\$30	\$55	\$99
Willow, Pussy *	<i>Salix discolor</i>	\$31	\$65	\$119	\$214
Witchhazel, Common *	<i>Hamamelis virginiana</i>	\$34	\$72	\$131	\$236

Fruit Trees	Price
Apple, Cortland "Royal Court"™	\$15
Apple, Honeycrisp™	\$19
Apricot, Goldcot	\$15
Cherry, Lapins Dark Sweet	\$18
Peach, Early Redhaven	\$15

Tree Packs	Price
Fruit Orchard Pack (5 trees)	\$73
Homeowner Tree Pack	\$15
Nut Tree Pack	\$15
Wetland Pack	\$15

Grasses and Wildflowers	Price
Beach Grass (bundle of 100)	\$14
Sunny Wildflower Mix	\$5 / oz or \$18 / 4oz
Shady Wildflower Mix	\$5 / oz or \$18 / 4oz
Bird & Butterfly Mix	\$5 / oz or \$18 / 4oz
Warm Season Grass Mix	\$15 / lb
Deer Forage Base Mix	\$5 / lb
Game Bird Mix	\$5 / lb
Dahlia Bulbs (mixed)	\$3.50 / package of 3
Daylily Tuber Fans (mixed)	\$0.35 each

Wildlife Homes	Price
Bluebird House	\$45
Wood Duck House	\$75
Bat House	\$60

Tree Planting Products	Price
Terra-Sorb gel, 1 ounce	\$2
Planting Bar / Dibble	\$30
"Trees Planted" Sign	\$2
Plantskydd Animal Repellent <i>specify container type</i>	\$20
Vinyl Marking Flag	\$0.10

Conservation District Gear	Price
Recycled Cotton Canvas Tote	\$10
12 oz Recycled Travel Mug	\$5
MCD Logo Short-sleeve Shirt	\$12
MCD Logo Long-sleeve Shirt	\$15
MCD Logo Baseball Cap	\$20

* Native to Michigan

Quick-Reference Key

The first line of each tree description includes the mature height of the tree and two symbols indicating the preferred sunlight and soil moisture conditions of the species. These are intended as general guidelines only, as most trees are adaptable and will survive (even thrive) in conditions beyond those indicated by the symbols. Specific needs are noted in the full description.

Sunlight Conditions



= Prefers full sun



= Shade-tolerant

Soil Moisture Conditions



= Prefers dry sites



= Prefers wet sites



= Prefers moist, but well-drained sites

GENERAL GUIDELINE FOR SPACING AND TREE DENSITIES

Windbreaks:

conifers	7' x 10'	15 per 100 feet
shrubs	6' x 10'	17 per 100 feet

Christmas Trees:

all types	5' x 5'	1750 per acre
all types	6' x 6'	1210 per acre

Reforestation/Erosion Control:

conifers	6' x 8'	908 per acre
hardwoods	10' x 10'	435 per acre

Tree Planting Tips

Site Selection

Trees, shrubs and other plants come in a variety of shapes and sizes and all grow best under certain site conditions. You need to consider the soil type, moisture levels, and the amount of sunlight and space available for the chosen planting site. Then choose a species that will grow well in those conditions. Avoid planting trees within 50 feet of septic drain fields, within 10 feet of buildings or 20 feet of overhead wires, or where they will obstruct the view of nearby intersections.

Site Preparation

Eliminating competition from the planting area will greatly increase the survival and growth of new seedlings. Site preparation can be done mechanically or chemically. The most effective method of control may be to apply an herbicide during the late summer or early fall of the year prior to planting.

Plant Care

The roots of all bare root stock **MUST** be kept wet. If the roots are allowed to dry out, the seedlings will be dead before they are planted. **Tip:** Keep plants covered while planting. It only takes a minute for roots to dry out, especially on windy or sunny days. Store plants in a cool, dry place until they can be planted. If planting cannot be done within one week, dig a trench, unpack the plants, spread out the roots in the trench and cover the roots with soil. The plants can remain in these trenches until you are ready to plant them.



Planting Methods



Drive the blade of a shovel or planting bar into the soil and push the handle back and forth to create a "V" shaped hole. Insert the plant into the hole with the roots straight (do not wrap the roots in the hole) and about as deep as they were planted in the nursery bed. There should be a soil line on the stem of the plant. Push the soil back around the plant and pack it firmly.



Post-Planting Care



Water, water, water! The need for irrigation will depend on the rainfall and site conditions. If it is possible to get water to the plants, irrigate when the soil feels dry, or any time there is less than an inch of rainfall per week. Placing a few inches of mulch around the seedlings will help to hold moisture and reduce the need for watering. Make sure that mulch is not touching the stem of the plant to prevent pest damage and fungal infection.



Conifers / Evergreens



***Cedar, Red:** 40-50' tall  
An excellent choice for wildlife food and cover. The waxy, blue berries on female trees ripen in autumn and are favored by many birds. Tolerates drought and poor soils and is not browsed by deer. Prefers full sun. Makes an excellent windbreak and can be used for erosion control due to its fibrous root system.
Seedling size: 2-0, 8-12"



***Cedar, White:** 30-50' tall  
Also called Arborvitae. Slow growing, long-lived, and shade tolerant. Grows almost anywhere but prefers wet/moist open areas of poorly drained sites. Tolerant of acidic and alkaline soils. Used for lumber, windbreaks, hedges, wildlife food and cover. Protect young trees from deer.
Seedling size: 3-0, 6-12"



***Fir, Balsam:** 40-60' tall  
Prefers cool climates and moist but well-drained, acidic soils. Great for Christmas trees with aromatic, long-lasting needles. Transplants easily and is highly shade tolerant. Wildlife will rely on it for both food and shelter.
Transplant size: 2-2, 6-12"



Fir, Concolor: 80-100' tall  
Also called White Fir. Features blue-green needles and a silver trunk. Tolerates a wide range of soils. Shade tolerant and slow growing. Good for wildlife cover, landscaping and Christmas trees.
Seedling size: 2-0, 6-12"



Fir, Douglas: 50-70' tall  
Grows best in moist, well-drained soil and full sun. Fast growing. Good for landscaping, Christmas trees and wildlife cover.
Seedling size: 3-0, 10-18"



Fir, Fraser: 40-80' tall  
Pyramidal tree with dark green needles. Slow growing and moderately shade tolerant. Needs well-drained soils. Used for landscaping and Christmas trees.
Seedling size: 3-0, 6-12"



***Pine, Jack:** 45-60' tall  
Fast growing tree with short, stout, slightly twisted needles. Trunk can achieve 2 feet in diameter. Short-lived, but tough. Prefers well-drained loamy sand, but can maintain itself on dry sandy or gravelly soil types. Does not tolerate shade. Irregular branching pattern adds interest to the landscape.
Seedling size: 2-0, 8-12"



***Pine, Red:** 50-80' tall  
Grows best in well-drained sandy soils and full sun. Moderate to fast growth rate. Platy, reddish bark. Dark green needles are 4-6" long in bundles of two. Used for windbreaks, landscaping, and timber.
Seedling size: 3-0, 8-12"

***Pine, White:** 80-100' tall  
Our State tree! Shade tolerant, moderate to fast growth, long-lived. Soft needles are bluish-green and grow in bundles of 5. Prefers rich, moist to well-drained sandy soils. Used for timber, wildlife cover and windbreaks.
Seedling size: 3-0, 8-12"


Spruce, Blue: 30-60' tall  
Most adaptable of the spruces. Grows well on any upland soil. Prefers full sun. Stiff blue-green to silvery needles. Used for landscaping, Christmas trees and windbreaks.
Seedling: 3-0, 8-12". Transplants: 2-1, 10-14"

Spruce, Norway: 60-90' tall  
Shade tolerant tree with short, dark green needles and drooping branches. Prefers moist clay to loam soils. Valued for landscaping, windbreaks and wildlife cover.
Seedling: 3-0, 8-12". Transplants: 2-1, 10-14"

***Spruce, White:** 60-90' tall  
Our native spruce. Conical shape with branches full to the ground. Shade tolerant and slow growing. Prefers well-drained clay to clay-loam soils but is highly adaptable. Tolerates heat, drought, and high water. Used for landscaping, windbreaks and wildlife cover.
Seedling size: 3-0, 8-12". Transplants: 2-1, 10-14"

***Tamarack:** 50-75' tall  
This small to medium-sized, deciduous, native conifer will grow 50 to 75 feet tall on suitable soils with adequate water levels. Grows best in moist loamy soils along streams, lakes and swamps. It is not tolerant of shade so plant where it will get plenty of sun. Needles turn golden yellow in fall before dropping for the winter. Strong, heavy wood used for timber, wildlife food and cover.
Seedling size: 3-0, 18-24"

Hardwoods / Deciduous Trees

***Aspen, Quaking:** 50-65' tall  

Aspen are fast growing, colony forming trees that prefer sunny, open sites. Provides quick cover for wildlife such as grouse and turkey. Adapts to almost any soil condition from wet to dry.

Seedling size: 1-0, 12-24"

***Birch, River:** 40-70' tall  

Excellent tree for urban yards. Fast growing with nice forking pattern. Bronze bark peels back to reveal hues of red and peach. Tree is drought tolerant but enjoys moist soils. Intolerant of shade.

Seedling size: 1-0, 6-12"

***Birch, White:** 35-65' tall  

Bright white, paper-like bark. Fast growing, especially when young. Likes full sun and does not tolerate shade. Fairly adaptive to different soils, often found in sandy gravelly soils.

Seedling size: 1-0, 6-12"

***Birch, Yellow:** 60-80' tall  

Prefers cool, moist, well-drained soil. Shade-tolerant, fast growing, and relatively long-lived. Attractive bronze colored bark peels in thin, curly strips. Golden yellow fall color.

Seedling size: 1-0, 6-12"

***Chestnut, American:** 50-75' tall  

Well suited to dry, sandy soils where available water may be a problem. Shade tolerant and fast growing. Short lived due to its extreme sensitivity to the chestnut blight. Produces edible nuts in a prickly husk.

Seedling size: 2-0, 8-14"

***Cherry, Black:** 60-80' tall  

A fast growing tree attaining a trunk diameter of 2-3 feet. Prefers sandy to loamy, well-drained soils. Intolerant of shade. Hanging clusters of white flowers develop into black fruits. Valuable for wildlife, including birds and butterflies.

Seedling size: 1-0, 6-12"

***Hackberry:** 40-60' tall  

Moderately fast growing, shade tolerant tree that prefers moist, well-drained sand/loam soils but thrives almost anywhere. Tolerant of difficult conditions including drought, salt, and soil compaction. Orange-red berries ripen to deep purple and persist into winter. Host to many butterfly species and valuable as a winter food source for birds. Use for landscaping, street trees, windbreaks, and wildlife.

Seedling size: 1-0, 6-12"

***Maple, Red:** 45-60' tall  

Medium-sized tree that will grow in poorly-drained to well-drained sites. Shade tolerant and fast growing. Noted for its red buds, twigs and fall color. Good for landscaping and wildlife. Protect young trees from deer.

Seedling size: 2-0, 8-16"

***Maple, Silver:** 50-80' tall  

Fast growing tree that prefers moist to wet soil conditions, but can adapt to well-drained sites and poor soils. Useful for difficult sites. Intolerant of shade. The whitish underside of the leaves gives the tree a silvery shimmer in the breeze.

Seedling size: 2-0, 8-16"

***Maple, Sugar:** 80-100' tall  


Large tree, moderately shade tolerant and slow to medium growing. Grows well on moist, well-drained soils. Provides a rainbow of stunning fall colors. Used for timber, landscaping and maple syrup production.

Seedling size: 2-0, 8-12"

***Oak, Red:** 60-90' tall  


Large, long-lived tree that is faster growing than other oaks. Grows best on well-drained soils in full sun. Valued for timber, wildlife and landscaping.

Seedling size: 2-0, 8-12"

***Oak, White:** 50-80' tall  

Large drought-tolerant tree that prefers full sun. Slow growing but extremely long-lived. Thrives on well-drained sandy loam to clay loam soils. A good ornamental or forest tree. Valuable for timber and wildlife.

Seedling size: 2-0, 8-12"

***Poplar, Tulip:** 60-90' tall  

Grows very fast, especially in moist, fertile soil and full sun. Features a straight trunk, tulip-shaped leaves and large yellow and orange flowers. Member of the Magnolia family. Used mostly for landscaping.

Seedling size: 1-0, 6-12"

***Walnut, Black:** 60-80' tall  

A valuable hardwood tree that achieves best growth on moist sandy loams where it can reach 60-80 feet in height and 2-3 feet in trunk diameter. The nuts are a good winter food source for wildlife. Shade intolerant. The wood is used for furniture, veneer and gun stocks.

Seedling size: 1-0, 6-12"

Small Trees & Shrubs

***Ash, American Mountain:** 15-25' tall  

This fast-growing native tree prefers moist soils and full sun. Small, white flowers in May develop into clusters of bright red berries in late summer. Excellent for landscaping and wildlife.

Seedling size: 1-0, 6-12"

***Arrowwood:** 6-10' tall  

An upright shrub often found growing along woodland borders and roadsides. Showy clusters of white flowers develop into dark blue berries that are relished by birds. Prefers well-drained soils and tolerates some shade. Use for shrub borders, hedges, and wildlife.

Seedling size: 2-0, 12-18"

***Buttonbush:** 6-12' tall  

Medium-sized shrub blooms in mid-summer with a unique cluster of tubular white flowers that form a perfect sphere. Butterflies love it! Prefers wet sites and full sun. Good for pond edges, landscaping, screening, and wildlife.

Seedling size: 1-0, 6-12"

Crabapple, Sargent: 6-8' tall  

Compact, densely branched shrub. Pink buds produce white flowers in mid-May, dark red fruit in fall. Prefers sandy sites but does well on most soils. Planted for windbreaks, wildlife food/cover, and living fences.

Seedling size: 1-0, 6-12"

***Cranberry, Highbush:** 8-12' tall  

Produces lacy, flat-topped clusters of white flowers followed by red fruit, which birds eat in the winter. Prefers moist sites. Will tolerate some shade. Excellent wildlife plant.

Seedling size: 2-0, 18-24"

***Elderberry, Common:** 5-8' tall  

Small, multi-stemmed shrub. Prefers rich, moist sites. Shade tolerant, but grows faster on sunny sites. Tiny white flowers form large, lacy clusters in June-July. Edible purplish black fruit in September-October. Valuable food for wildlife.

Seedling size: 1-0, 6-12"

***Dogwood, Flowering:** 15-30' tall  

Small tree 15-30 feet tall. Prefers slightly acidic, well-drained sites in a variety of soils. Shade tolerant, slow growing. Large white flowers in May or June, red fruit in October. Good ornamental and wildlife tree.

Seedling size: 2-0, 12-24"

***Dogwood, Gray:** 8-12' tall  

Dense multi-stemmed shrub with white flower clusters leading to white berries in late summer. Moderately shade tolerant. Found in dry to wet soils. Used for landscaping, hedges, wildlife food/cover. Use as an alternative to Autumn Olive and Tartarian Honeysuckle.

Seedling size: 2-0, 12-18"

***Dogwood, Red-osier:** 8-10' tall  

Twigs have a red to purplish-red color that remains all year creating attractive winter interest. White flower clusters and white berries. Grows on moist to wet sites. Used for landscaping, stream bank restoration, and wildlife food/cover.

Seedling size: 2-0, 24-36"

***Dogwood, Silky:** 8-10' tall  

Medium sized, multi-stemmed shrub growing up to 10 feet. Tolerates light shade, grows on wet sites and a variety of soils. Yellowish-white flowers in spring; porcelain blue fruit in early fall. Valuable for stream bank restoration and wildlife.

Seedling size: 2-0, 24-36"

***Hazelnut, American:** 8-10' tall  

This small, erect shrub features interesting zig-zag branches and a low, rounded crown. Characteristic along fence rows, edges of woods and old fields. Prefers well-drained loam soils. Intolerant of shade. The nuts are a great wildlife food source and are edible.

Seedling size: 1-0, 6-12"

Hawthorn, Washington: 25-30' tall  

White flowering tree that is valuable to birds for nesting because of the thorns on trunk and branches. Produces abundant berries for wildlife. Grows in various soils and in full sun. Drought resistant.

Seedling size: 1-0, 6-12"

Lilac, Common: 8-15' tall  

A large shrub that produces abundant clusters of aromatic purple flowers in spring. Will tolerate a range of soils, but needs full sun for optimum flowering. Used in landscaping and as privacy screen.

Seedling size: 3-0, 10-20"

Small Trees and Shrubs continued on next page . . .

Small Trees & Shrubs, continued

*Nannyberry:

15-20' tall  

Has white flowers in late May to June followed by blue fruit in September. Berries are readily eaten by wildlife. Fast growing plant is shade tolerant. Prefers wet sites, but will grow on drier sites. Can be used as a tall hedge or pruned to a single-trunked tree.

Seedling size: 1-0, 6-12"


*Ninebark:

6-9' tall  

Prized for its shaggy bark which peels off to reveal layers of lighter colored inner bark. Also features small white or pinkish flowers leading to reddish-brown berries in fall. Medium to fast growth on most sites, including dry or acid soils in full sun or partial shade. Good for shrub borders, screens and wildlife plantings.

Seedling size: 1-0, 6-12"

*Osage Orange:

35-60' tall  

Tough, decay-resistant tree often used as hedgerows or windbreaks. Female trees produce softball sized "hedge-apples." Young shoots have thorns. Thrives in most soils, including clay and sand. Excellent tree for wildlife.

Seedling size: 1-0, 6-12"

*Plum, American:

15-25' tall  

This shade-tolerant species thrives in moist, well-drained sand or loam but also tolerates poor, dry soils. White blossoms cover the bare branches in early spring. Edible fruits have red skin and yellow flesh. Can form colonies, making it useful for erosion control. Also used for landscaping, wildlife food/cover and a host for several butterfly species.

Seedling size: 1-0, 6-12"


*Redbud, Eastern:

15-30' tall  

Moderately shade tolerant, slow growing tree with heart-shaped leaves. Grows well on most soils. Flowers appear in April-May and have dark pink petals. Used for landscaping due to its striking beauty when flowering in spring.

Seedling size: 2-0, 12-18"

*Serviceberry (Juneberry):

15-30' tall  

A small tree 15-30 feet tall, grows in sun or shade. Prefers moist, well-drained sandy soils. White flowers are among the first to appear in the spring. Edible red berries in June. Excellent for wildlife. Use as an alternative to Autumn Olive and Tartarian Honeysuckle for wildlife plantings.

Seedling size: 3-0, 24-36"

*Spicebush:

6-12' tall  

Rounded, multi-stemmed shrub covered with fragrant yellow-green flowers in early spring. Prefers moist soils, but is adaptable to a variety of conditions. Can tolerate full shade. Produces berries edible to wildlife and is a host plant for several species of butterfly.

Seedling size: 1-0, 12-18"

*Snowberry:

3-6' tall  

Small pink flowers adorn this small shrub in June, developing into snow white berries that persist into winter. Shade tolerant with bluish-green leaves. Prefers moist, well-drained soil but is highly adaptable. Forms thickets with a strong root system making this a perfect choice for slope stabilization, erosion control, and wildlife food/cover.

Seedling size: 1-0, 6-12"

*Viburnum, Maple Leaf:

3-6' tall  

A small, shade-tolerant shrub with lovely maple leaf shaped foliage that turns shades of red and pink in the fall. White, lacy flower clusters and blue-black berries. Tolerates a wide range of soils, including clay. Excellent for landscaping, shrub borders, foundation plantings, and short hedges.

Seedling size: 1-0, 6-12"

*Willow, Pussy:

6-15' tall  

This native willow species has furry little flower buds called 'catkins' each spring. Fast growing. Tolerates most soils if kept evenly moist. Plant along streams, ponds, and low spots in the landscape.

Seedling size: rooted cutting 12-24"

*Witchhazel, Common:

15-25' tall  

Witchhazel is a must-have shrub for fragrance and color, blooming with yellow ribbon-like flowers in late fall/early winter when most plants have gone dormant. Prefers well-drained loam soils and is tolerant of shade. A valuable specimen for wildlife and winter interest in the garden.

Seedling size: 1-0, 6-12"

Fruit Trees

Apple, Cortland 'Royal Court'™:

Highly productive, cold-hardy tree that begins bearing at an early age. Apples ripen in late-September / early-October with dark red skin and crisp, white flesh that is juicy and sweetly tart. Flesh resists browning when cut, making this an ideal choice for fresh eating, cooking, and baking. 12-15' tall, 10-14' spread. Grow in full sun.

Plant size: 3/4" caliper (trunk diameter)

Note: Cortland needs another apple variety for pollination (such as Honeycrisp™, below) and serves as a pollinator for others.

Apple, Honeycrisp™:

Large, juicy, super-crisp apple with unbeatable sweetness. Highly productive, winter-hardy tree is moderately resistant to apple scab and fire blight. Bright red apples with light yellow striping keep well after picking. Harvest begins in mid-September. 12-15' tall, 12-15' spread. Grow in full sun.

Plant size: 5/8" caliper (trunk diameter)

Note: Honeycrisp needs another apple variety for pollination (such as Cortland, above) and serves as a pollinator for others.

Apricot, Goldcot:

Early harvest of medium size freestone fruit in July. Self-pollinating tree is bacterial spot resistant and winter hardy. Firm orange flesh is sweet and slightly tangy. Good for fresh use, freezing, canning, or drying. 15' tall, 20' spread. Grow in full sun.

Plant size: 3/4" caliper (trunk diameter)

Cherry, Lapins Dark Sweet:

A large, firm, crack resistant cherry that ripens in late July. Early blooming, self-fertile trees are heavy producers and resist late frosts. Rich flavor perfect for eating fresh, cooking, baking, canning, and freezing. 10-15' tall, 10-12' spread. Grow in full sun.

Plant size: 3/4" caliper (trunk diameter)

Peach, Early Redhaven:

Abundant early season harvest of bright red fruit with semi-clingstone, firm, yellow flesh in late July. Self-fertile, bacterial spot resistant, cold hardy tree. Very juicy, sweet peach recommended for fresh eating, cooking and baking. 10-15' tall, 10-15' spread. Grow in full sun.

Plant size: 3/4" caliper (trunk diameter)

Tree Pack Assortments

Fruit Orchard Pack: A bounty of fruit awaits the homeowner choosing this tree pack. Includes one each of Cortland 'Royal Court'™ Apple, Honeycrisp™ Apple, Goldcot Apricot, Lapins Sweet Dark Cherry, and Early Red Haven Peach. Eat fresh, can, bake, and freeze to your heart's content. Each tree is 5/8" to 3/4" caliper and needs full sun.

Homeowner Tree Pack: The perfect assortment of native Michigan trees for any backyard. Contains two each of: Sugar Maple, Red Maple, White Oak, White Spruce, and American Mountain Ash. Excellent for landscaping and providing food and cover for native wildlife. Seedlings are 6-12" in height and will grow well in any well-drained, average garden soil.

Nut Tree Pack: For the nut lover in your life we have this special combination of trees. Assortment includes two each of: Black Walnut, Shagbark Hickory, American Hazelnut, Red Oak, and Bur Oak. A great tasting combination of nuts for you and the wildlife on your property. Seedlings are 6-12" in height and all species will grow well in any well-drained, average garden soil.

Wetland Pack: Excellent selection of species to restore or enhance shorelines, stream banks, borders around ponds, or low areas in the landscape. Assortment includes two each of: Highbush Cranberry, Silky Dogwood, Nannyberry, Ninebark, and Tamarack. Seedlings are 6-12" in height and grow best in moist to wet soils.

Tips to Encourage Pollinators

Pollination of fruit trees and most food crops requires bees. But you don't have to raise a hive of honeybees to get the job done. Encourage wild, native bees to call your garden home by implementing these simple pollinator-friendly practices:

- Grow a variety of native flowering plants in your garden to provide nectar throughout the summer.
- Native bees live in undisturbed ground or dead wood. Provide habitat by leaving a patch of your orchard undisturbed or make a "bee block" by drilling small holes in the end of a log or hanging up a bundle of hollow sticks.
- Eliminate the use of pesticides. If pesticides are necessary, use careful spot treatment rather than broad application.

Grasses, Wildflowers, Food Plot Seed

Beach Grass

\$14 / bundle

Bundles of 100 plants are great for erosion control on sand. Space plants 12" apart. These grasses take about a month to assimilate to their new location and begin new growth.

Sunny Wildflower Mix

\$5 / oz or \$18 / 4oz

This Sunny Wildflower mixture will create a beautiful, low maintenance landscape in full sun. Includes annuals and perennials for first year results and long-term blooms. One ounce covers 200 square feet.

Shady Wildflower Mix

\$5 / oz or \$18 / 4 oz

Use the Shady Wildflower mixture to create a beautiful, low maintenance landscape in areas receiving less than four hours sun. Includes annuals and perennials for first year results and long-term blooms. One ounce covers 200 square feet.

Bird and Butterfly Mix

\$5 / oz or \$18 / 4 oz

A beautiful mixture of wildflowers that provides seeds and nectar to songbirds, hummingbirds and butterflies. Combination includes vibrant annuals and perennials that ensure blooming throughout the growing season. Also includes species that attract beneficial garden insects. Sow at a rate of 1 ounce per 100 square feet.

Warm Season Grass Mix

\$15 / lb

Great mix of grasses and wildflowers for more rural areas where there is a desire to convert a small field or open area into a more naturalized wildlife area. Includes big bluestem, little bluestem, indian grass, switch grass, and variety of native wildflowers. Plant at rate of 6 to 8lbs per acre.

If you are interested in other varieties of seeds, individual seed quantities, or other seed mixes please contact our office.

Deer Forage Base Mix

\$5 / lb

A good forage base is one of the necessary components to attract and hold deer. Combination includes high protein forage during summer for weight gain and antler growth. Also provides good brood cover for turkey. Best suited for well-drained soils. Mixture includes forage chicory, alfalfa, ladino clover, red clover, alsike clover, and timothy. Plant 18 lbs per acre.

Game Bird Mix

\$5 / lb

Specially developed mix for individuals raising pheasant and quail, or those that wish to attract these birds. It is a mixture of short millets and sorghums that provide a thick cover and excellent standability for the winter. Contains wild game sorghum, early dwarf white sorghum, dwarf pearl millet, golden gorman millet, siberian millet, and wild proso millet. Matures in 80 to 90 days. Plant 8 to 10 lbs per acre.

Dahlia bulbs (mixed colors)

\$3.50 / package of 3

Daylily tuber fans (mixed colors)

\$0.35 each

Will my wildflowers grow and flower the first year I plant the seed?

In designing a native wildflower garden, it's important to know that you probably won't be able to transform your yard overnight. Many wildflowers spend most of the energy in the first couple of years establishing a healthy root system. Weed your garden and be patient for the first year or two while your plants are getting established.

Wildlife Homes

Bluebird House (Peterson Style)

\$45

Traditional style bluebird house hand-constructed of rough sawn cedar. Opening is an oval shape. The eastern bluebird prefers open grasslands where it eats lots of insects.

Wood Duck House

\$75

Hand-made of cedar, this wood duck house will last for many years. Attach to a tree or post over water or near the water's edge. Wood ducks build their nest 10-20 feet in the air facing the water.

Bat House

\$60

Bats consume millions of flying insects every summer, and are also helpful in pollinating numerous plants and trees. This house has two chambers and a screen mesh for bats to roost on; large enough to house a small colony of bats. Hand-constructed of cedar.

Tree Planting Products

“Trees Planted” Sign

\$2

Protect your investment with these yellow, aluminum signs. “Trees Planted—Keep Off”

Terra-Sorb Planting Gel

\$2/oz

A naturally-based super absorbent gel. Absorbs 200 times its weight in water and adheres to seedling roots to keep moist during planting. Mix with water in a large bucket and dip roots. Each ounce will cover up to 500 seedlings.

Tree Planting Bars

\$30

Also known as a planting “dibble.” Heavy, metal bar with a straight blade footstep. This tool makes quick work of seedling planting.

Vinyl Marking Flag

\$0.10 each

Protect your newly planted seedlings by marking their location with these high visibility marking flags. Flags are 2.5” by 3.5” on a 30” wire stake.

Plantskydd Animal Repellant

\$20

Available in 1 quart pre-mix solution, 1 pound soluble powder, or 1 pound granular shaker. The active ingredient in Plantskydd Animal Repellant is dried blood. It fools the deer into thinking there is a predator in the area. This stimulates the fear response which will have them looking for alternative places to dine. The vegetable oil binder makes it stick tenaciously to plant material and protects dormant plants for up to 6 months over winter.

Compost Bins



Composting—nature’s own way of recycling—converts leaves, grass clippings, yard trimmings, and kitchen vegetable scraps into a rich organic soil amendment. Compost provides needed nutrients for your plants, loosens the soil, improves soil micro-organism diversity, increases water retention in the soil, conserves landfill

space and saves you money. Dig finished compost into the soil around plants or use as a mulch for your trees, garden, and landscaped areas. **\$70**

Features of the “Garden Gourmet” composter:

- Made of 100% recycled plastic
- Holds 11 cubic feet (Dimensions = 24” x 24” x 36”)
- Scavenger-proof lid that snaps shut to secure
- Sliding bottom door to remove compost
- Includes user guide / composting instruction booklet

Rain Barrels

Rain water picks up many pollutants as it runs over lawns, sidewalks, and roads. Storm drains carry this polluted water directly into the nearest stream, river, or lake. With a rain barrel, you can help protect natural resources and save money on your water bill by keeping stormwater on your property and using it the way nature intended; to water the plants in your yard—a double benefit! **\$85**



This 60-gallon rain barrel comes with:

- Solid brass spigot to attach to a garden or soaker hose
- Anti-debris/mosquito screen
- Secure fitting lid to prevent access by kids or pets
- Two overflow valves to drain excess water or hook up additional barrels
- Sturdy dark green plastic to prevent algae growth

Rain Gardens

Another great way to protect our rivers, lakes, and streams from stormwater pollution is to plant a rain garden. Rain gardens look like any other landscaped flower bed in your yard, but they are specially designed to trap stormwater before it leaves your property. You can place a rain garden in a low spot where water naturally pools, or you can create a shallow depression (6-8” deep) anywhere in your yard and channel stormwater to it. Plant this area with native perennial plants, and—voilà—you have a rain garden! The deep, fibrous roots of native plants will filter out contaminants and help water percolate into the soil. Water will infiltrate within 24 hours in a properly constructed rain garden, so no need to worry about mosquitoes! For more information about rain gardens, contact our office at 231-773-0008 or visit www.raingardens.org.

Conservation District Gear

District Logo 12oz. Travel Mug

\$5

By re-using this sleek, black, travel mug over and over again you will be partaking in simple action that can make a big difference - recycling. This thermal mug has a thumb-closure sip hole lid and is made of recycled plastic.

Organic Cotton Logo T-Shirts

\$12 - short sleeve

\$15 - long sleeve

Organic cotton jersey T-shirts dyed with natural pigments to produce the perfect background for the District's logo: Conservation, Preservation, Restoration. Short sleeve available in blue (L, XL) or green (XXL). Long sleeve available in blue (L, XL) or brown (L, XL).

District Logo Baseball Caps

\$20

Classic low-profile baseball cap in miscellaneous colors that allow you to express your endorsement of the Muskegon Conservation District. A great durable cap for a day of hiking, canoeing, or just tinkering around in the backyard.

Recycled Cotton Canvas Tote Bag

\$10

Show your support for the Muskegon Conservation District when you use your new recycled cotton canvas tote bag. These versatile bags are 19" wide by 15.5" tall with a 5.5" gusset and 22" handles. Very useful at the grocery store, library, carrying bulky items and when going to the beach.

Books

Michigan Pocket Field Guides

Each book in this popular series packs a lot of information into a handy pocket-sized package. Full-color photos and organized information make using these guides a snap. Keep one or two in your backpack, glove compartment, or tackle box for easy identification of hundreds of species you are likely to see during your explorations of our beautiful state.

<u>Birds of Michigan Field Guide, 2nd ed.</u>	\$12.95
<u>Butterflies of Michigan Field Guide</u>	\$16.95
<u>Fish of Michigan Field Guide (w/ waterproof pages)</u>	\$12.95
<u>Mammals of Michigan Field Guide</u>	\$14.95
<u>Reptiles and Amphibians of Michigan w/ CD</u>	\$14.95
<u>Trees of Michigan Field Guide</u>	\$12.95
<u>Wildflowers of Michigan Field Guide</u>	\$16.95

Creating Backyard Habitat/Native Landscapes

Are you interested in creating a more natural landscape in your yard but not sure how to start? These resources have been carefully selected to inform and inspire those working toward a beautiful, environmentally responsible and wildlife-friendly backyard.

<u>101 Ways to Help Birds</u>	\$19.95
<u>Attracting Birds to Your Backyard</u>	\$18.95
<u>Landscaping for Wildlife</u>	\$11.95
<u>Landscaping with Native Plants of Michigan</u>	\$24.95
<u>Organic Lawn Care Manual</u>	\$19.95
<u>The Wildlife Gardener's Guide</u>	\$9.95
<u>Woodworking for Wildlife</u>	\$16.95

Other Michigan Guides

<u>A Birder's Guide to Michigan</u>	\$28.95
Guide to the 200 best bird watching sites throughout Michigan and the birds to watch for. 660 pages.	
<u>The Forests of Michigan</u>	\$23.00
Natural history, past and present use, and best management of Michigan's forestlands. 297 pages.	
<u>The Living Great Lakes</u>	\$14.95
The history, nature, and science of the Great Lakes told as the author travels them in a schooner. 296 pages.	
<u>Michigan Fossils</u>	\$14.95
Guide to the best fossil-hunting sites in Michigan, plus an I.D. key to identify what you found. 109 pages.	
<u>Michigan Roadside Naturalist</u>	\$25.00
Seven road trips through Michigan, pointing out geology, biology, and archaeology along the way. 334 pages.	
<u>Michigan Sand Dunes</u>	\$16.95
Natural history of dunes and guide to 50 of the best dunelands to explore in Michigan. 192 pages.	
<u>Michigan Trees</u>	\$19.95
Definitive field guide to Michigan trees, including keys for both winter and summer identification. 448 pages.	
<u>Michigan's Endangered Wildlife</u>	\$18.00
Detailed descriptions, photos, and locations of the remaining populations in Michigan. 104 pages.	

Stop in to browse many more titles in stock, including comprehensive field guides to birds, trees, wildflowers, mushrooms, and animal tracking. We also have a fun selection of books for children, including the nature-themed Dr. Seuss Learning Library series!

Muskegon Conservation District 2010 Spring Seedling Fundraiser

COMPLETE YOUR ORDER FORM



Order Deadline is April 2, 2010.

- Refunds or replacements will be offered for sold out stock. While we will make our best effort to satisfy every order, we cannot guarantee every order will be filled completely.
- Your receipt will be mailed in April.
- Orders of **\$100.00 or less** must be **paid in full** at time of order. Orders exceeding \$100.00 will require a 25% deposit at time of order. Balance is due at time of pick up.

Pick Up

April 17 (Saturday) 9:00 am – 12:00 pm

Extra stock sold

April 17 (Saturday) 1:00 pm - 3:00 pm

April 20-23 (Tues. - Fri.) By Appointment

- **No refunds** will be given for orders not picked up by 5:00 pm, Wednesday April 21, 2010.
- Due to the nature of the stock and the variables in handling and planting, there is no guarantee on live plants. The Conservation District is not liable for any direct, indirect, special incidental or consequential damages incurred or claimed by the customer.
- A full refund will be granted for orders cancelled by phone or letter prior to April 2, 2010. Orders cancelled after that date will be refunded the total of the order, *less* a 25% service charge.
- "It is unlawful for these trees, shrubs and other plants to be resold with the roots attached, in accordance with the Insect Pest and Plant Disease Act, P.A. 189 of 1931, as amended."

Tax Exempt Certificate

All orders are subject to 6% Michigan State Sales Tax, unless exempt. **NOTE: Tree seedlings and shrubs sold for reforestation, erosion control, windbreaks, wildlife or landscaping are considered real estate improvement, and are subject to State Sales Tax.**

The undersigned purchaser, being fully informed concerning the Michigan State Sales Tax Acts and their rules and regulations, hereby claims to be legally entitled to exemption from such taxes on purchases from the Muskegon Conservation District, 940 N. Van Eyck St., Muskegon, MI 49442, unless otherwise specified.

Name: _____

Date: _____

Tax Exempt Number: _____

PHONE _____	E-MAIL _____	CITY _____	STATE _____	ZIP _____	CHECK # _____
Please Print					OFFICE USE
LAST NAME _____	ADDRESS _____			FIRST NAME _____	ORDER # _____

Free Tree Care Workshops



Can't decide which trees to plant? Not sure how to keep them alive once they've been planted? Attend one of our free "**Backyard Forestry**" workshops in March! Learn how to select the right tree for your property, how to plant it properly, and how to maintain it for years of beauty and enjoyment. Our district Forester will be on hand to share his expertise and to answer your questions. Special focus will be on managing trees planted in backyards and small lots. All are welcome, whether you have room for one tree or a hundred!

Choose from two dates and locations:

- ◆ **March 11, Downtown Muskegon**, 6:30-8:00pm, Michigan Alternative & Renewable Energy Center (GVSU MAREC Building), 200 Viridian Dr., Muskegon, MI 49440
- ◆ **March 25, Whitehall**, 6:30-8:00pm, Whitehall City Hall (Garden Room), 405 E. Colby St., Whitehall, MI 49461

Registration is appreciated, but not required. To register, please call Erin at 231-773-0008.

Annual Meeting

You are cordially invited to our 71st Annual Meeting to be held at 6:00pm on **April 8, 2010** at the Howmet Playhouse (304 S. Mears Ave, Whitehall, MI 49461). Come learn about all that has been accomplished in the last year and find out who will receive this year's awards: Conservationist of the Year, Educator of the Year, and Friend of the District. Our special program will be all about the fascinating features and adaptations of **Nocturnal Animals**. Bring the whole family to see live bats, owls, flying squirrels, and more in a presentation from our friends at Bat Conservation International. Admission is **FREE**. Refreshments will be provided. RSVP by calling 231-773-0008 or email erin.charles@macd.org.

Let Us Lend a Hand

The Muskegon Conservation District is *Your Local Resource for Natural Resources*, so whether you need help planning a native landscape, are looking for technical assistance on your conservation project, or just have a natural resource question, let us lend you a hand. District staff offer a range of expertise from forest management to groundwater protection, and we continue to develop programs and seek funding for projects that affect the quality of life in our communities. If you would like keep up to date on District activities visit our website (www.muskegoncd.org) or send us an e-mail and let us know about your area of interest. We will make sure you receive materials on upcoming workshops, volunteer opportunities, and project information.

The District is operated similar to a non-profit organization with initiatives and financial support coming from the local community. Your generous contribution will help to ensure the health and beauty of Muskegon County's natural resources both for today and for future generations to come. Every dollar invested in the District goes directly into implementation of hands on conservation projects, which builds an environmental legacy we can be proud of.





Muskegon Conservation District
940 N. Van Eyck St.
Muskegon, MI 49442
PH: 231-773-0008
FX: 231-767-1207
muskegoncd.org

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Muskegon Conservation District *Spring Seedling Fundraiser Catalog 2010*



Seedling Orders Due

April 2, 2010

Seedling Pick Up

April 17 (Saturday) 9:00 am – 12:00 pm

Extra Seedling Stock Sold

April 17 (Saturday) 1:00 pm – 3:00 pm
April 20-23 (Tues. - Fri.) By Appointment

Coming up:

Native Perennial Sale

June 5, 2010 (Saturday) 8:00 am - 12:00 pm