

# *Spring Seedling Sale Catalog 2007*

## **Muskegon Conservation District**

*Serving, educating and empowering our community for natural resource stewardship*

**Orders Due:  
March 26, 2007**

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**Pick Up Date:  
April 14, 2007**

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USDA-NRCS

## CONTACT US:

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Muskegon, MI 49442  
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jeff.auch@macd.org

8:00 am to 4:30 pm  
(Monday - Friday)

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 2007 Spring Seedling Sale

- **Order Deadline is March 26, 2007.**
- 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.
- **No refunds** will be given for orders not picked up by 4:30 pm, Wednesday, April 18, 2007.
- **PICK UP** **April 14 (Saturday) 9:00 am – 12:00 pm**
- **Extra stock sold** **April 14 (Saturday) 1:00 pm – 3:00 pm**  
**April 16-20 (Mon. - Fri.) 9:00 am – 4:00 pm**
- 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.
- 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.
- A full refund will be granted for orders cancelled by phone or letter prior to March 27, 2007. 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.*

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### 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.

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### \*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.

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### Volunteer Opportunities

Volunteers are needed to pack trees and fill orders Wednesday April 11 through Saturday April 14. Volunteers will receive a free Conservation District travel mug or recycled cotton tote bag. For more information Contact Rebecca @ 773-0008.

## Muskegon Conservation District 2007 Spring Seedling Sale Price List

Species / Product	Scientific Name	Quantity					
		10	25	50	100	500	1000
Cedar, Red Seedling	<i>Juniperus virginiana</i>	\$12	\$24	\$34	\$54	\$236	\$405
Cedar, White Seedling	<i>Thuja occidentalis</i>	\$14	\$26	\$38	\$60	\$263	\$450
Fir, Concolor Seedling	<i>Abies concolor</i>	\$10	\$21	\$34	\$51	\$170	\$255
Fir, Douglas Seedling	<i>Pseudotsuga menziesii</i>	\$8	\$18	\$28	\$42	\$140	\$210
Canadian Hemlock Seedling	<i>Tsuga canadensis</i>	\$18	\$35	\$50	\$80	\$350	\$600
Pine, Jack Seedling	<i>Pinus banksiana</i>	\$8	\$16	\$26	\$39	\$130	\$195
Pine, Red Seedling	<i>Pinus resinosa</i>	\$8	\$18	\$28	\$42	\$140	\$210
Pine, White Seedling	<i>Pinus strobus</i>	\$8	\$18	\$28	\$42	\$140	\$210
Spruce, Blue Seedling	<i>Picea pungens</i>	\$8	\$18	\$28	\$42	\$140	\$210
Spruce, Norway Seedling	<i>Picea abies</i>	\$8	\$18	\$28	\$42	\$140	\$210
Spruce, White Seedling	<i>Picea glauca</i>	\$8	\$18	\$28	\$42	\$140	\$210
Tamarack Seedling	<i>Larix laricina</i>	\$18	\$38	\$60	\$90	\$300	\$450

Conifer Transplants	Scientific Name	Quantity					
		10	25	50	100	500	1000
Fir, Balsam Transplant	<i>Abies balsamea</i>	\$24	\$47	\$68	\$108	\$320	\$590
Fir, Concolor Transplant	<i>Abies concolor</i>	\$34	\$67	\$95	\$152	\$288	\$525
Fir, Douglas Transplant	<i>Pseudotsuga menziesii</i>	\$21	\$41	\$59	\$94	\$285	\$520
Fir, Fraser Transplant	<i>Abies fraseri</i>	\$34	\$67	\$95	\$152	\$350	\$650
Spruce, Blue Transplant	<i>Picea pungens</i>	\$21	\$40	\$58	\$92	\$280	\$510
Spruce, Norway Transplant	<i>Picea abies</i>	\$21	\$40	\$58	\$92	\$280	\$510

Deciduous Trees	Scientific Name	Quantity			
		10	25	50	100
American Chestnut	<i>Castanea dentata</i>	\$15	\$31	\$44	\$75
Birch, Yellow	<i>Betula alleghaniensis</i>	\$15	\$31	\$43	\$74
Birch, White	<i>Betula papyrifera</i>	\$11	\$24	\$33	\$57
Black Cherry	<i>Prunus serotina</i>	\$11	\$24	\$33	\$57
Black Walnut	<i>Juglans nigra</i>	\$13	\$28	\$39	\$66
Maple, Red	<i>Acer rubrum</i>	\$14	\$28	\$39	\$68
Maple, Sugar	<i>Acer saccharum</i>	\$14	\$30	\$42	\$72
Oak, Burr	<i>Quercus macrocarpa</i>	\$12	\$25	\$35	\$60
Oak, Red	<i>Quercus rubra</i>	\$10	\$20	\$28	\$49
Oak, White	<i>Quercus alba</i>	\$10	\$20	\$28	\$49
Quaking Aspen	<i>Populus tremuloides</i>	\$14	\$28	\$39	\$68
Tulip Poplar	<i>Liriodendron tulipifera</i>	\$13	\$28	\$39	\$66

Shrubs	Scientific Name	Quantity			
		10	25	50	100
American Mountain Ash	<i>Sorbus americana</i>	\$11	\$22	\$39	\$66
Arrowwood	<i>Viburnum dentatum</i>	\$5	\$10	\$18	\$30
Bayberry	<i>Myrica pennsylvanica</i>	\$10	\$19	\$33	\$57
Buttonbush	<i>Cephalanthus occidentalis</i>	\$10	\$19	\$33	\$57
Sargent Crabapple	<i>Malus sargentii</i> 'Roselow'	\$12	\$25	\$43	\$74
Eastern Redbud	<i>Cercis canadensis</i>	\$14	\$27	\$47	\$81
Elderberry	<i>Sambucus pubens</i>	\$11	\$23	\$39	\$68
Dogwood, Flowering	<i>Cornus florida</i>	\$14	\$27	\$47	\$81
Dogwood, Gray	<i>Cornus racemosa</i>	\$9	\$18	\$31	\$53
Dogwood, Pagoda	<i>Cornus alternifolia</i>	\$12	\$23	\$40	\$69
Dogwood, Red-osier	<i>Cornus stolonifera</i>	\$9	\$18	\$31	\$53
Dogwood, Silky	<i>Cornus amomum</i>	\$10	\$20	\$35	\$60
Hazelnut	<i>Corylus americana</i>	\$14	\$27	\$47	\$81
Highbush Cranberry	<i>Viburnum trilobum</i>	\$15	\$30	\$52	\$89
Juneberry	<i>Amelanchier canadensis</i>	\$11	\$22	\$39	\$66
Lilac	<i>Syringa vulgaris</i>	\$8	\$16	\$28	\$49
Nannyberry	<i>Viburnum lentago</i>	\$15	\$30	\$52	\$89
Ninebark	<i>Physocarpus opulifolius</i>	\$10	\$19	\$33	\$57
Sand Cherry	<i>Prunus pumilla</i>	\$9	\$18	\$31	\$53

Species / Product	Price
Tree Planting Products for Sale	
Terra-Sorb gel, 1 ounce	\$2.00
Planting Bar / Dibble	\$23.00
"Trees Planted" Sign	\$1.00
Plantskydd Animal Repellent	
Pre-mixed liquid 1 qt.	\$20.00
Soluble powder 1 lb.	\$20.00
Granular shaker 1 lb.	\$20.00
Tree Shelters - 2' tube (pack of 5)	\$12.00
Tree Shelters - 3' tube (pack of 5)	\$17.00
Vinyl Marking Flag	\$0.10

Wildlife Homes for Sale	Price
Bluebird House (Pine, Troyer's Sparrow Resistant Design)	\$15.00
Bluebird House (Cedar, Peterson Style)	\$25.00
Wood Duck House (Cedar)	\$50.00
Bat House (Cedar)	\$35.00

Grasses and Wildflowers	Price
Beach grass (bundle of 100)	\$14.00
Native Sunny Wildflower Mix - BULK	\$5 / oz
Native Sunny Wildflower Mix - BULK	\$16 / 4 oz
Shady Wildflower Mix - BULK	\$3 / oz
Shady Wildflower Mix - BULK	\$10 / 4 oz
Dahlia bulbs (package of 3)	\$3.25
Daylilies	\$0.35
Hosta plugs - mixed	\$0.75

MCD Logo Products for Sale	Price
Recycled Cotton Canvas Tote bag	\$10.00
12 oz Recycled Plastic Travel Mug	\$5.50
MCD Logo Short-sleeve Shirt	\$12.00
Green - L, XL, XXL	
Blue - L, XL	
MCD Logo Long-sleeve Shirt	\$15.00
Blue - Large only	
MCD Logo Baseball Cap	\$20.00

TREE PACKS Package of 10 tree seedlings	Price
Flowering Tree Pack	\$25
Nut Tree Pack	\$32



## Conifers / Evergreens

**\*White Cedar:** Also called Arborvitae. Another small to medium sized native. Slow growing, 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. Seedling size: 3-0, 8-15”

**\*Red Cedar:** An excellent choice for wildlife food and cover. The waxy, blue berries ripen in autumn and are favored by many birds. Individual trees are either male or female, so some specimens will not have fruit. Grows 40-50 feet with a width of 8-20 feet. Tolerates drought and poor soils. Prefers full sun. Generally not browsed by deer. Seedling size: 2-0, 6-12”

**\*Balsam Fir:** This small to medium sized conifer will grow to 40-60 feet tall. Prefers cool climates and well-drained, acidic soils. Great for Christmas trees, aromatic, long lasting needles. Transplants easily because of shallow root system. Highly shade tolerant. Wildlife will rely on it for both food and shelter. Transplants: 3-1, 5-10”

**Concolor Fir:** Grows to 100 feet tall. Tolerates a wide range of soils, shade tolerant, slow growing. Blue-green needles and a silver trunk. Good for wildlife cover, landscaping and Christmas trees. Seedling size: 2-0, 5-10”. Transplants: 2-1, 6-12”

**Douglas Fir:** Grows best in moist, well drained soil and full sun. A fast growing tree that will reach up to 50 feet tall. Good for landscaping, Christmas trees and wildlife cover. Seedling size: 2-0, 6-12”. Transplants: 2-1, 8-12”

**Fraser Fir:** Pyramidal tree, growing to 40 feet tall, slow growing, and moderately shade tolerant. Needs well drained soils. Used for landscaping and Christmas trees. Transplants: P+1, 6-12”

**Canadian Hemlock:** Also known as Eastern Hemlock, this tree can grow to 70 feet on favorable sites. Prefers evenly moist, acidic, organic well-drained soils. Performs best in partially shaded sites. Most shade tolerant of all tree species. Used for food by grouse, songbirds, and wild turkey also used for shelter. Deer will browse heavily during winter. Seedling: 3-0, 6-12”

**\*Jack Pine:** A fast growing medium size tree, 70-80 feet high and 2 feet in diameter with short and stout, slightly twisted needles. Prefers well-drained loamy sand, but can maintain itself on dry sandy or gravelly soil types. Does not tolerate shade. Seedling size: 2-0, 6-12”

**\*Red Pine:** Large tree growing 50-80 feet tall. Grows best in well drained sandy soils and full sun. Moderate to fast growth rate. Dark green needles are 4-6” long in bundles of two. Used for windbreaks, landscaping, and timber. Seedling size: 2-0, 4-8”

**\*White Pine:** Our State tree!! Large tree 80-100 feet tall, shade tolerant, moderate to fast growth. Needles are bluish-green, soft and grow in bundles of 5. Prefers rich, moist to well-drained sandy soils. Used for timber, wildlife cover and windbreaks. Seedling size: 2-0, 4-8”

**Colorado Blue Spruce:** Most adaptable of the spruces. Grows 30-60 feet tall. Grows well on any upland soil, prefers full sun. Stiff blue-green to silvery needles. Used in landscaping, Christmas trees and windbreaks. Seedling: 2-0, 8-12”. Transplants: 2-1, 8-14”.

**Norway Spruce:** Large tree 60-90 feet tall, shade tolerant and moderately fast growing. Needles are dark green and short. Prefers moist clay to loam soils. Valued for landscaping, windbreaks and wildlife cover. Seedling: 2-0, 8-12”. Transplants: 2-1, 8-14”.

**\*White Spruce:** Our native spruce. Large tree 60-90 feet tall, shade tolerant, slow growing. Prefers well drained clay to clay-loam soils. Tolerates heat, drought, and high water. Used for landscaping, windbreaks and wildlife cover. Seedling size: 2-0, 8-12”

**\*Tamarack:** This small to medium sized, deciduous, native conifer will grow 50 –75 feet tall on suitable soils with adequate water levels. Grows best on more favorable sites such as moist but well-drained loamy soils along streams, lakes and swamps. It is not tolerant of shade so plant where they will get plenty of sun. Used for timber, wildlife food and cover. Seedling size: 2-0, 6-12”

## Hardwoods / Deciduous Trees

**\*American Chestnut:** 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. Seedling size: 1-0, 8-12”

**Yellow Birch:** Landscape tree is well suited to the average garden soil. Reaches up to 50 feet in height. Aesthetically pleasing tree for the ornamental landscape. Seedling size: 2-0, 6-12”.

**\*White Birch:** Native tree. Grows 35 to 65 feet tall. Fast growing, especially when young. Avoid spring pruning to prevent “bleeding”. Likes full sun and does not tolerate shade. Fairly adaptive to different soils, often found in sandy gravelly soils. Uses include timber, firewood and ornamental lawn tree. Seedling size: 2-0, 6-12”.

**\*Black Cherry:** A fast growing tree attaining heights of 60-80 feet with a trunk diameter of 2-3 feet. Prefers sandy to loamy, well drained soils. The clusters of black fruit, which ripen in late summer, are an important food source for birds and wildlife. Intolerant of shade as it grows older. Seedling size: 1-0, 6-12”

**\*Black Walnut:** A valuable hardwood timber tree with 1-2 foot long compound leaves. Achieving best growth on moist sandy loams where it can reach 60-80 feet in height and 2-3 feet in trunk diameter. The large nuts are a good winter food source for wildlife. Not tolerant of shade. The wood is used for furniture, veneer and gun stocks. Seedling size: 1-0, 6-12”

**\*Red Maple:** Medium tree 45-60 feet tall, will grow in poorly drained to well drained sites. Shade tolerant and fast growing. Noted for its red buds, twigs and brilliant fall color. Good for landscaping and wildlife. Seedling size: 2-0, 8-14”

**\*Sugar Maple:** Large tree 80-100 feet tall, moderately shade tolerant and slow to medium growing. Grows well on moist soils. Used for timber, landscaping and maple syrup production. Seedling size: 2-0, 6-12”.

**\*Burr Oak:** Slow growing on dry uplands and sandy plains. Reaches a mature height of 80-100 feet on better sites. Characteristics include a massive clear trunk, with a broad open crown of stout branches. Used for timber, lawn and street trees, shelterbelts, and wildlife food and cover. Seedling size: 2-0, 10-20”

**\*Red Oak:** Large tree 60-90 feet tall, prefers full sun, relatively fast growing. Grows best on well drained soils. Valued for timber, wildlife and landscaping. Seedling size: 1-0, 8-12”.

**\*White Oak:** Large tree 45-80 feet tall, prefers full sun, slow growing. Grows well on well drained sandy loam to clay loam soils. A good ornamental or forest tree. Valuable for timber and wildlife. Seedling size: 1-0, 6-12”

**\*Quaking Aspen:** Aspen are fast growing trees that prefer sunny, open sites. Provides quick cover for wildlife such as grouse, turkey and deer. Grows to heights of 60-100’ and adapt to a wide range of soils. Seedling size: 1-0, 6-12”.

**\*Tulip Poplar:** Grows 60-100 feet, fast growing, prefers moist, fertile soil and full sun. Straight trunk, tulip shaped leaves and large yellow and orange flowers. Member of the Magnolia family. Used mostly for landscaping. Seedling size: 2-0, 6-12”.

**Flowering Tree Pack:** Wonderful combination of flowering trees for color in every season. This pack includes 2 of each of the following species: Roselow Crabapple, White Flowering Dogwood, European Mountain Ash, Washington Hawthorn, and Tulip Poplar. Seedlings are 6-12” in height and all species are well adapted to any well-drained, average garden soil.

**Nut Tree Pack:** For the nut lover in your life we have this special combination of trees. 3– Hazelnut, 2– Pecan, 3– Butternut, and 2– White (Carpathian) Walnut. A great tasting combination of nuts for you or the wildlife on your property. Seedlings are 6-12” in height and all species are well adapted to any well-drained, average garden soil.

### General Guidelines for Spacing

Tree Type	Spacing	# of Trees
<b>Windbreaks:</b>		
conifers	7’ x 10’	15/100 feet
shrubs	6’ x 10’	17/100 feet
<b>Reforestation/Erosion Control:</b>		
conifers	6’ x 8’	908/acre
hardwoods	10’ x 10’	435/acre
<b>Christmas Trees:</b>		
all types	5’ x 5’	1750/acre
all types	6’ x 6’	1210/acre

## Shrubs

**American Mountain Ash:** Grows 12-25 feet tall. Prefers moist soils. Small, white flowers in late May. Clusters of bright red berries in late summer. Fast growing. Excellent for wildlife. Seedling size: 2-0, 12-18"

**\*Arrowwood:** An upright growing shrub with fruit in late summer, often found growing along woodland borders and roadsides. The showy clusters of white flowers develop into dark blue berries that are relished by birds. Grows to 8-10 feet. Prefers well-drained soils and can tolerate some shade. Seedling size: 2-0, 6-12"

**Bayberry:** Small tree to 35 feet with greenish-yellow flowers. Grows in rich well drained sand and swamps. Aromatic leaves remain through winter. Excellent food source for game birds. Seedling size: 2-0, 6-12"

**\*Buttonbush:** Large, spreading shrub, grows to 25 feet tall. White flowers in the spring, and yellowish fruit. Shade intolerant, grows well on wet sites. Good for screens, wildlife, and attracts butterflies. Seedling size: 2-0, 6-12".

**Sargent Crabapple:** A compact, densely branched shrub, reaching up to 8 feet tall. 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: 2-0, 12-18"

**\*Eastern Redbud:** Grows 12 to 24 feet tall. Moderately shade tolerant, slow growing tree. Grows well on many soils. Flowers appear in April-May, dark red petals. Used for landscaping due to its striking beauty when flowering in spring. Seedling size: 2-0, 12-18".

**\*Elderberry:** Small, multi-stemmed shrub up to 12 feet tall. Prefers moist sites. Shade tolerant, but grows faster on sunny sites. Small white flowers in June-July, purplish black fruit in September-October. Valuable food for wildlife. Seedling size: 1-0, 6-12"

**Flowering Dogwood:** Small tree 15-30 feet tall. Grows on various sites, but not in areas with high water table. Shade tolerant, slow growing. White flowers in May or June, red fruit in October. Good ornamental and wildlife shrub. Seedling size: 2-0, 6-12"

**\*Gray Dogwood:** Grows to 12 feet tall, often in large dense multi-stemmed clumps. Moderately shade tolerant, found in dry to wet soils. Used for landscaping, hedges, wildlife food and cover. *Use as an alternative to Autumn Olive and Tartarian Honeysuckle.* Seedling size: 1 -0, 6-12"

**\*Pagoda Dogwood:** A small tree 12-24 feet tall, shade tolerant understory species in beech-maple forests. Tolerates relatively high water table and organic soils. Not for dry, droughty sites. Slow growing. Seedling size: 2-0, 6-12"

**\*Red-osier Dogwood:** Grows 3-9 feet tall. Older twigs have a red to purplish-red color that remains all year creating attractive winter interest. Used for Landscaping, stream bank restoration, and wildlife food / cover. Seedling size: 1-0, 6-12"

**\*Silky Dogwood:** Small, multi-stemmed shrub growing to 10 feet. Prefers full sun, grows on wet sites and a variety of soils. Yellowish-white flowers in spring, has a blue fruit in early fall. Valuable for windbreaks and wildlife. Seedling size: 2-0, 16-24"

**\*Hazelnut:** This small, erect shrub grows to approximately 9 feet tall with a low rounded crown. Characteristic of open dry or moist situations, along fence rows, edges of woods and old fields. Intolerant of shade. The nuts are a great wildlife food source and are edible. Seedling size: 2-0, 6-12"

**\*Highbush Cranberry:** Grows 4-10 feet tall, prefers moist sites. Will tolerate some shade, produces clusters of white flowers followed by red fruit, which birds will eat in the winter. Excellent wildlife plant. Seedling size: 2-0, 6-12"

**\*Juneberry (Serviceberry):** A small tree 15-30 feet tall, grows in sun or shade. Prefers sandy soils. White flowers, some of the first to appear in the spring. Red berries in June. Excellent for wildlife. *Use as an alternative to Autumn Olive and Tartarian Honeysuckle for wildlife plantings.* Seedling size: 2-0, 6-12"

**Lilac:** A large shrub that produces abundant clusters of aromatic flowers in the spring. Will tolerate a wide range of soils, but needs full sun for optimum flowering. Used in landscaping and as privacy screen. Seedling size: 2-0, 10-20"

**\*Nannyberry:** Grows to 20 feet, prefers wet sites, but will grow on drier sites. Fast growing plant is shade tolerant. Has white flowers in May-June followed by blue fruit in September. Berries are readily eaten by wildlife. Seedling size: 2-0, 6-12"

## Shrubs

\***Ninebark:** Spreading shrub 6-10 feet tall. Medium to fast growth. Small white or pinkish flowers. Grows on most sites, including dry or acid soils in full sun or partial shade. Good for borders, screens and wildlife plantings. Seedling size: 1-0, 6-12"

\***Sand Cherry:** Fast-growing 3-6 feet tall. Tolerant of most sites, avoid shaded areas. The plump, round cherries are mature when they turn a deep blackish purple. The fruits are edible and are used in jams and jellies; also a favorite wildlife food. Seedling size: 2-0, 6-12"

## Grasses

**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.

**Bulk Native Wildflower Mix** **\$5/oz or \$16/ 4oz**  
This Native 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.

**Bulk Shady Wildflower Mix** **\$3/oz or \$10/4 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.

**If you are interested in other varieties of wildflower seed mixes please contact our office so that we may help you find the right mix for your project.**

**Dahlia bulbs** **\$2.50/ package**  
Three bulbs per package. Mixed colors.

**Daylilies** **\$0.35 each**  
Plants have one to two fans. Mixed colors.

**Hosta plugs** **\$0.75 each**  
Selection is a mixture of variegated and solid varieties.

### ***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 (Troyer's Sparrow resistant)** **\$15**  
Troyer's Sparrow-resistant bluebird house is designed to deter the sparrow from using the house due to the small size of the interior. The eastern bluebird prefers open grasslands where it eats lots of insects. Buy the houses in pairs to prevent competition with swallows. Constructed with pine.

**Bluebird House (Peterson Style)** **\$25**  
More traditional style bluebird house 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** **\$50**  
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** **\$35**  
Bats consume millions of flying insects every summer, and are also helpful in pollinating numerous plants and trees. This house has a screen mesh for bats to roost on; large enough to house a small colony of bats. Cedar.

## Tree Planting Products

**“Trees Planted” Sign** **\$1**  
Protect your investment with these orange, 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** **\$23**  
Heavy, metal bar with straight blade footstep. Makes quick work of seedling planting.

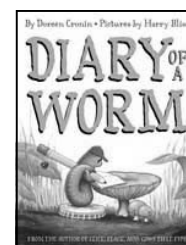
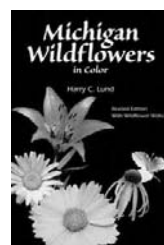
**Vinyl Marking Flag** **\$0.10 each**  
Protect your newly planted seedlings by marking their location with these high visibility marking flags. Flags are 2.5” by 3. 5” on a 30” wire stake.

**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.

**Tree Shelters** **\$12.00/ (pack of 5) - 2’ tube**  
**\$17.00 / (pack of 5) - 3’ tube**  
Protect your new seedlings from browse damage caused by deer, mice and rabbits. These shelters are sold in packs of 5 and are available in 2’ and 3’ heights.

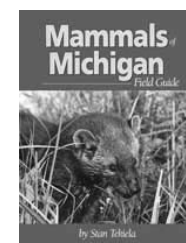
## Books for Sale

<u>A Guide to Common Freshwater Invertebrates of North America</u>	\$30
<u>A Guide to Michigan’s Endangered Wildlife</u>	\$18
<u>Birds of Michigan Audio CD</u>	\$15
<u>Birds of Michigan</u>	\$13
<u>Borne of the Wind</u>	\$13
<u>Butterflies of Michigan – Field Guide</u>	\$17
<u>Critters of Michigan Pocket Guide</u>	\$6
<u>Insects of the Great Lakes Region</u>	\$20
<u>Lakescaping for Wildlife &amp; Water Quality</u>	\$16
<u>Landscaping for Wildlife</u>	\$15
<u>Looking at Bugs</u>	\$6
<u>Mammals of Michigan</u>	\$15
<u>Michigan Fossils</u>	\$15
<u>Michigan Gardener’s Guide</u>	\$25
<u>Michigan Sand Dunes</u>	\$17
<u>Michigan Trees</u>	\$20
<u>Michigan Wildflowers in Color</u>	\$19
<u>National Audubon Society Familiar Birds of North America</u>	\$10
<u>National Audubon Society Familiar Trees of North America</u>	\$10
<u>Pond Life</u>	\$7
<u>Reptiles and Amphibians of Michigan Field Guide</u>	\$15
<u>The Forests of Michigan</u>	\$23
<u>The Living Great Lakes</u>	\$14
<u>The Michigan Roadside Naturalist</u>	\$25
<u>Trees of Michigan</u>	\$13
<u>Wild About Birds</u>	\$20
<u>Wildflowers of Michigan</u>	\$17



### Woodworking for Wildlife

<b>Children’s Books</b>	<b>\$13</b>
<u>52 Nature Activities (deck of cards)</u>	\$7
<u>Animal Flash Cards</u>	\$15
<u>Diary of a Worm</u>	\$16
<u>Just a Dream</u>	\$19
<u>Otter</u>	\$5
<u>Pop Up Bugs</u>	\$18
<u>The Best Book of Bugs</u>	\$6
<u>The Lorax</u>	\$15



## Other Conservation Products

### **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.

### **District Logo 12oz. Travel Mug**                      **\$5.50**

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**

Simply the best T-shirt available. Organic cotton jersey T-shirts dyed with natural pigments (*green or blue*) to produce the perfect background for the District's logo: Conservation, Preservation, Restoration.

### **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.

## 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 in the following situations:

- within 50 feet of septic drain fields
- within 10 feet of buildings or 20 feet of overhead wires.
- 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 1 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 to leave a bare ring around each seedling to prevent feeding damage from rodents.

## Welcome to *THE GATEWAY*

We are in the process of making our District office a "gateway" for the conservation, preservation, and restoration of our natural resources. We feel that educating the public and increasing awareness will help insure better stewardship of our environment. We are creating a reference library and work area for to public and increasing our stock of conservation books and materials to make it easier for you to get the information and supplies you need. And, we have some great new children's nature books too! The District office will also be adding more educational activities for adults. Check out our website at [muskegoncd.org](http://muskegoncd.org) to see what we have scheduled. And if that is not enough for you, we hope to soon have the District office open on occasional Saturdays throughout the summer and fall to better accommodate some of our patron's needs. If you haven't been into the District office lately, please stop in.

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### Birds of Prey

Come to our annual meeting on March 22<sup>nd</sup> and we will treat you to a wonderful education experience - the Michigan United Conservation Clubs Wildlife Encounters™ program. Nearly one-third of all Michigan raptors are threatened or endangered. In this program, a variety of raptors (birds of prey), including eagles, owls, falcons, vultures and hawks are used to highlight the beauty of these birds, and demonstrate the important roles they play as avian predators. The presenter will address life history, adaptations, habitats, and the threatened/endangered status of each of the animals. For more information, give us a call.



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### Tree Terminators' Presentation Series

In conjunction with Michigan State University Extension, the District will be conducting a series of presentations on 'Tree Terminators'. Topics to be discussed include Oak Wilt and Oak Defoliators; Pine Pocket Disease and Pine Bark Beetle; and the Emerald Ash Borer. Presentations will include information on the insects and diseases including the life cycles. Information will also be provided on how to manage your existing trees or woodlots to prevent or minimize loss. Presentation dates are Thursdays, March 8th, 15th and 22nd. The presentations will be at 6:30 pm at the Muskegon Technical Academy on Apple Avenue in Muskegon. Call Rebecca, District Forester, for further details.



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### Building Your Backyard Biodiversity

After planting all those stunning little seedlings in your yard turn your attention to something a little more vibrant. Consider converting a portion of your urban landscape into a backyard habitat and increasing the ecological diversity. Native perennials are great asset to any conservationist's landscape, increase visitation by birds and butterflies, and need little to no maintenance. Learn how to get your yard certified as an official *Backyard Wildlife Habitat* through the National Wildlife Federation, and receive technical assistance by District staff for design suggestions, resource lists, and much more.



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### Conservation District Native Wildflowers and Grasses Consignment Sale

June 2, 2007 from 9:00am to 12:00pm

## Forestry Assistance Program

The purpose of the Forestry Assistance Program is to help Michigan citizens better understand, plan, manage, protect, and utilize their forest resources. The Muskegon Conservation District Forester, Rebecca Bieneman, provides the following services to residents of Muskegon free of charge and can be reached at 773-0008.



- Office, onsite, & phone assistance
- Information & Education on Forest Management and Forest Health Issues
- Referrals to private Consulting Foresters
- Written management plans to non-industrial private forest landowners and local governments upon request
- Tree and Shrub Seedling sale planting recommendations and planting information
- Presentations throughout the grant year on local forest health issues

*It doesn't matter if you have a large tract of land or a small lot, site visits to your property are possible through the Forestry Assistance Program.*

Most of the non-living items featured in this catalog are available in our office throughout the year and may be purchased at anytime. Please feel free to stop by our office during normal business hours to browse the displays and make a purchase. We would love to see you!

**Muskegon Conservation District hours:** Monday — Friday 8:00 am to 4:30 pm

*The office is closed on all Federal Holidays including the day after Thanksgiving and Christmas Eve.*

### Conservation and You: A Great Partnership

We would like to thank the following individuals for supporting the Conservation District in 2007. All donations are used to implement projects and programs throughout the region that directly affect our natural resources. Consider a tax deductible donation as part of your seedling sale order, or independently as a way to support a great partnership.



Historic Photo from the  
Civilian Conservation Corps

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Learn all about ongoing Muskegon Conservation District projects and programs at [muskegoncd.org](http://muskegoncd.org)



**Seedlings Order Due**

March 26, 2007

**Seedling Pick Up**

April 14 (Saturday) 9:00 am – 12:00 pm

**Extra Seedling Stock Sold**

April 14 (Saturday) 1:00 pm – 3:00 pm  
April 16-20 (Mon. - Fri.) 9:00 am – 4:00 pm

**Monthly Board Meetings**

The Muskegon Conservation District Board of Directors meet the 3rd Thursday at 5:00pm. Meetings are held at the Muskegon Conservation District office - 940 N. Van Eyck St., Muskegon, MI