

# OTSEGO CONSERVATION DISTRICT SEEDLING SALE FUNDRAISER

## SPRING 2019 SEEDLING DESCRIPTION & PRICE LIST

Order early to ensure the species you want!  
Orders are due by March 22, 2019.

**Friday & Saturday, May 3rd & 4th  
8:30 a.m.- 5 p.m.**

Seedling Sale will be held at the  
Otsego Conservation District  
Education Center  
459 Livingston Blvd., Gaylord  
(Alpine Center)

**Production of this booklet has been  
made possible by these businesses and  
individuals committed to conservation.**

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*Please patronize the businesses that support the  
important work of the Otsego Conservation District.*

The best time to plant a tree was 50 years ago.  
The next best time is NOW.

## CONIFERS

### **Balsam Fir**

*Height: 30-80'*

Fragrant, soft needles make this an excellent Christmas tree. A slow growing tree that is adaptable to a variety of sites. Seedlings should be protected on sites that are heavily populated by deer and wind.

### ***Abies balsamea***

*Shade; moist to wet soils*

### **Jack Pine**

*Height: 40-60'*

Very fast growing and grows in extremely dry conditions. Excellent for wildlife cover, windbreaks, and for timber production even on the poorest of sites. Extremely cold and salt tolerant.

### ***Pinus banksiana***

*Full sun; very sandy soils*

### **Concolor Fir**

*Height: 40-70'*

An important Christmas and ornamental tree because of its graceful form and blue-gray foliage. Must be shaped if grown for Christmas tree production. Well adapted to dry sites and soil and water stress.

### ***Abies concolor***

*Full sun to shade; sandy to moist soils*

### **Red Pine**

*Height: 65-100'*

Also known as Norway pine. Fast growing pine on sandy soils. Valuable for timber, reforestation, windbreak and wildlife cover. Plantations are first thinned at 30 years. Sheds lower branches as it matures. Long lived.

### ***Pinus resinosa***

*Full sun; sandy to gravelly soils*

### **Black Hills Spruce**

*Height: 60-80'*

Variety of white spruce from the Dakotas with fuller form. Used for Christmas trees, windbreaks and wildlife cover. Salt tolerant.

### ***Picea glauca densata***

*Partial shade; sandy to moist soils*

### **Eastern White Pine**

*Height: 70-100'*

Michigan's State Tree. Best if planted under/near taller trees. This will reduce the chance of white pine weevil infestation. Fast-growing tree. Used for timber, Christmas trees, and wildlife habitat.

### ***Pinus strobus***

*Partial shade; wide range of soils*

### **White Spruce**

*Height: 50-80'*

Native to Michigan. Slow growing, long lived species. Retains lower branches making it excellent for wildlife cover, windbreaks and visual screening. Limited timber value. Needles have a pungent odor when crushed. Salt tolerant.

### ***Picea glauca***

*Partial shade; sandy to moist soils*

### **Eastern Hemlock**

*Height: 70-100'*

Slow growing, but very long lived (600+ years). Found growing naturally in our northern hardwood forests. Provides thermal cover for wildlife in the winter.

### ***Tsuga canadensis***

*Full sun to shade; moist to wet soils*

### **Norway Spruce**

*Height: 50-80'*

Moderately fast-growing. Graceful, pendulant branches with large cones (used as a model for cuckoo clock manufacturing). Used for windbreaks, wildlife habitat, and as an ornamental.

### ***Picea abies***

*Full sun to shade; wide variety of soils*

### **Tamarack**

*Height: 40-80' Full sun to partial shade; moist to well-drained soils*

A deciduous conifer with delicate needles that turn bright golden in the fall prior to falling off.

### ***Larix laricina***

### **Colorado Blue Spruce**

*Height: 30-60'*

Drought resistant once established. Beautiful ornamental and Christmas tree. Excellent for windbreaks, soil stabilization, and wildlife cover. Slow growing. Avoid planting with Douglas Fir. Salt tolerant.

### ***Picea pungens***

*Full sun to shade; sandy to moist soils*

### **Northern White Cedar**

*Height: 30-50'*

Grows best in soils with a pH of 7.0 or higher. Very slow growing. Primary species of northern swamp conifer forest. Used as food by deer and elk. Wood is rot resistant.

### ***Thuja occidentalis***

*Full sun to shade; moist to wet fertile soils*

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## HARDWOODS

### **American Chestnut**

*Height: 30-40'*

Large, fast-growing, nut-producing tree threatened with extinction by a chestnut blight. Sweet nuts eaten by humans and many wildlife species. Excellent for firewood usage. Rot resistant wood.

### ***Castanea dentata***

*Full sun; well-drained soils.*

### **Red Maple**

*Height: 50-70'*

Also referred to as "soft maple". Fast-growing tree. Wood used for pulp and low grade lumber. Bright red fall foliage.

### ***Acer rubrum***

*Shade; wide range of soils*

### **Black Walnut**

*Height: 60-90'*

The nuts are excellent for wildlife and humans. Does not tolerate very wet or dry soils. Salt tolerant. Excellent timber.

### ***Juglans nigra***

*Full sun; moist, fertile, well drained soils.*

### **Sugar Maple**

*Height: 60-100'*

Also referred to as "hard maple." Primary species of the northern hardwood forest. Used for quality lumber, veneer, and maple syrup production. Golden yellow foliage in autumn. Salt tolerant.

### ***Acer saccharum***

*Shade; moist, fertile to sandy soils.*

### **Carolina Hybrid Poplar**

*Height: 30-50'*

Very fast growing, often 6'+ per year. Once established, used for windbreaks, erosion control, and pulpwood. Excellent food source for wildlife.

### ***Populus X canadensis***

*Full sun; wide range of soils.*

### **Red Oak**

*Height: 65-90'*

Large, versatile tree. Fastest growing of the oaks. Wood is valued for timber and firewood. Produces abundant nuts eaten in late winter by deer, small mammals and turkeys. First seed crop at age 25. Acorns germinate in the spring.

### ***Quercus rubra***

*Full to partial sun; wide range of soils.*

### **White Birch**

*Height: 40-65'*

Commonly known as paper or canoe birch. Fast-growing, short-lived tree with creamy-white bark. Beautiful yellow autumn foliage. Salt tolerant.

### ***Betula papyrifera***

*Full sun; well to poorly-drained soils.*

### **White Oak**

*Height: 70-90'*

Produces sweet nuts eaten in the fall by deer, small mammals and turkeys. Produces valuable lumber and excellent firewood. Oak Wilt resistant. Otsego County is lacking in this tree. First seed crop produced at age 20. Acorns germinate in the fall.

### ***Quercus alba***

*Full to partial sun; wide range of soils.*

## WILDLIFE SHRUBS

### Butterfly Bush

Height: 5-10'

Fast-growing, upright shrub. Easy to maintain. Provides an excellent source of nectar for butterflies and hummingbirds.

### *Buddleia spp*

Full sun; well drained soils

### Mountain Ash

Height: 12-25'

Slow-growing with beautiful white flowers. Orange-red fruit persistent in winter and eaten by many songbirds.

### *Sorbus americana*

Partial shade to shade; wide range of soils

### Highbush Cranberry

Height: 3-13'

Leaves turn a brilliant scarlet in autumn. Fruit persistent through winter making it a great food source for wildlife.

### *Viburnum trilobum*

Full sun; moist to wet soils

### Nannyberry

Height: 13-23'

A moderately fast-growing shrub with beautiful flowers (May/June). Abundant fruit eaten by birds and small mammals.

### *Viburnum lentago*

Partial shade; moist to wet soils.

### Elderberry

Height: 3-12'

A stout, strong-growing shrub with white flowers (July), followed by purple-black fruits. Safe for human and wildlife consumption.

### *Sambucus canadensis*

Full to partial shade; rich, moist soils

### Red-Osier Dogwood

Height: 6'

Grows on low, wet ground and stream banks. Fast growing and spreads. Beautiful deep red bark, good food and cover for wildlife such as deer, bear, birds, and small mammals.

### *Cornus stolonifera*

Full to partial sun; moist to wet soils.

### Gray Dogwood

Height: 3-12'

Reddish twigs turning gray with age. Pale green leaves that change to reddish-purple in the fall. This shrub adapts well to drier sites and is resistant to most diseases and pests.

### *Cornus racemosa*

Full sun to shade; various soil types

### Sargent Crabapple

Height: 6-10'

A dwarf broad growing tree with fragrant white flowers that are followed by small bright red fruit. Excellent for windbreaks. Abundant food and cover used by birds and mammals. Green summer foliage.

### *Malus sargentii*

Full sun; very sandy soils.

### Hazelnut

Height: 6-12'

Multiple-stemmed bush. Produces abundant nuts within 3-4 years after planting. Eaten by grouse, turkey, deer, and small mammals.

### *Corylus americana*

Partial to full shade; dry to moist soils

### Serviceberry

Height: 10-20'

This small tree is one of the first to flower in the spring. Its fruit is widely used by wildlife and is also edible by humans. Grows as tall as 20 ft. on the best soils.

### *Amelanchier laevis*

Partial shade; moist, fertile to dry soils.

### Lilac-Common

Height: 12-15'

Multiple-stemmed, root-sprouting shrub. Forms thickets for wildlife cover. Drought resistant. Showy, lavender color flowers with a strong fragrance.

### *Syringa vulgaris*

Full sun; wide variety of soils

### Winterberry Holly

Height: 5-10'

Densely branched shrub with waxy foliage and bright red berries make it a desirable native landscape plant. Wildlife such as bear and deer utilize this plant for food as well as cover. Also known as Michigan Holly.

### *Ilex verticillata*

Full sun; moist soils

## ADDITIONAL INFORMATION

### Bareroot vs. Containerized Seedlings

Bareroot seedlings have no soil around the roots. They are larger than the containerized stock and require more care in handling and planting.

Cost of Bareroot vs. Container Seedlings: There is a cost difference between bareroot seedlings and container seedlings. Bareroot pine seedlings typically cost between 1/2 and 1/3 the price of container seedlings. Labor costs to plant bareroot seedlings can also be less than containerized seedlings. Some container costs can be offset if landowners plant fewer container seedlings per acre. Additionally, a greater percentage can be expected to survive

Containerized seedlings are grown in containers with a plug of soil surrounding the roots. They are suitable for very sandy sites where weed competition is minimal. Survival rates are high, as the containerized seedlings handle poor planting techniques, rough sites, and dry weather conditions better.



Containerized Seedling

### Seedling Age Classification

1-0 = One year old from seed

2-0 = Two years old from seed

2-1 = Two years old from seed, one year in transplant bed

2-2 = Two years old from seed, two years in transplant bed

R.S. = Root Stock

### Seedling Spacing

Reforestation, Timber	7'x8'	800 Trees per acre
Reforestation, Wildlife	10'x10'	435 Trees per acre
Christmas Trees	6'x6'	1210 Trees per acre
Shrubs, Wildlife	8'x10'	45 Clump
Windbreak	6'x6'x10'	

**WEED CONTROL IS ESSENTIAL FOR  
SEEDLING SURVIVAL**

## 2019 PRICE LIST

<b>CONIFERS-BAREROOT</b>		(Please note: ✓ denotes this species is native to Michigan)						<b>Number of Seedlings</b>	
	SIZE	5	10	25	50	100	250	500	1000
✓ Jack Pine	6-12"	\$8	\$12	\$22	\$36	\$53	\$111	\$204	\$373
✓ Red Pine	5-10"	na	na	na	na	na	na	na	na
✓ Eastern White Pine	5-10"	8	12	21	34	51	106	196	357
✓ Eastern White Pine 2-2	18-24"	11	16	29	47	71	147	270	494
✓ Balsam Fir Plug+1	6-12"	18	29	51	82	123	256	472	861
Concolor Fir	8-14"	16	24	43	69	104	216	397	725
Black Hills Spruce Plug+1	6-10"	18	29	51	82	123	256	472	861
Colorado Blue Spruce	5-10"	8	12	21	34	51	106	196	357
Colorado Blue Spruce 2-2	12-18"	16	26	46	73	110	228	420	767
Norway Spruce	5-10"	8	12	21	34	51	106	196	357
Norway Spruce 2-2	12-18"	16	26	46	73	110	228	420	767
✓ White Spruce	5-10"	8	12	21	34	51	106	196	357
✓ White Spruce 2-2	12-18"	16	26	46	73	110	228	420	767
✓ Northern White Cedar	6-12"	12	19	33	53	80	166	305	557

### **CONIFERS-CONTAINERIZED**

	SIZE	25	50	100	250	500	1000
✓ Red Pine 45M	8-12"	\$23	36	\$54	\$113	\$207	\$378
✓ Tamarack 4A	10-12"	23	37	56	116	213	389
✓ White Pine 4A	4-6"	26	41	62	128	236	431

### **HARDWOODS**

	SIZE	5	10	25	50	100	250	500	1000
✓ American Chestnut	12-24"	\$38	\$58	\$104	\$167	\$251	na	na	na
✓ Black Walnut	6-12"	12	19	34	55	83	172	316	578
✓ Red Maple	24-36"	15	23	41	65	na	na	na	na
✓ Red Oak	24-36"	15	23	41	65	98	na	na	na
✓ Sugar Maple	6-12"	16	26	46	73	110	228	420	767
✓ White Birch	9-15"	9	15	26	42	63	131	242	441
✓ White Oak	12-24"	13	20	36	57	86	178	328	599

### **WILDLIFE SHRUBS**

	SIZE	5	10	25	50	100	250	500	1000
✓ Black Chokeberry	12-24"	\$17	\$27	\$48	\$76	\$114	\$238	\$437	\$798
Butterfly Bush	6-8"	9	13	24	38	57	119	219	399
✓ Elderberry	6-12"	16	26	46	73	110	228	420	767
✓ Gray Dogwood	12-24"	14	22	40	64	96	200	368	672
✓ Hazelnut	6-12"	13	20	36	57	86	178	328	599
✓ Highbush Cranberry	12-24"	12	19	34	55	83	172	316	578
Lilac (Common)	12-24"	12	19	34	55	83	172	316	578
✓ Mt. Ash	6-12"	15	23	42	67	101	209	385	704
✓ Nannyberry	6-12"	17	27	48	77	116	241	443	809
✓ Ninebark	12-24"	11	16	29	47	71	147	270	494
✓ Red-Osier Dogwood	24-36"	12	19	34	55	83	172	316	578
Sargent Crabapple	6-12"	16	25	44	71	107	222	408	746
✓ Serviceberry	6-12"	16	26	46	73	110	228	420	767
✓ Winterberry Holly	6-12"	21	32	58	92	138	288	529	966

**Please call the district office at 989-732-4021 for information on species selection, site preparation, and purchasing species or quantities not listed here. Tabitha O'Dell, District Forester is also available to answer forest and wildlife questions and can provide information on local commercial tree planters, consulting foresters, loggers/producers and cost-share programs.**

## APPLES



### **Honeycrisp, Red McIntosh**

5-6' Trees

1 for \$30

Select a variety when ordering a single tree.

4 for \$115

2 of each variety

10 for \$260

5 of each variety

For pollination success we suggest that all varieties be cross pollinated with another variety.

**Honeycrisp** introduced in 1991. These 3" beauties are quickly becoming a new American favorite. The flesh is cream-colored and exceptionally crisp and juicy with a sub-acid flavor. Honeycrisp has an excellent storage life. Bred specifically for winter hardiness. Ripens in early September. Zones 3-6, Rootstock EMLA 26

**Red McIntosh** a northern favorite, the fruit colors early in the season to a deep red. They are fast growing and easy to maintain, maturing to a height of 15 to 20 feet, and a width of 10 to 12 feet. They bloom in mid-April and the fruit is typically harvested in September. Zones 4-8, Rootstock EMLA 7

## CRABAPPLES

### **Manchurian**

5-6' 1 for \$27

**Manchurian** has white, medium-size flowers with very heavy pollen. A flowering crab used to pollinate other apple varieties. Blooms early to midseason. Good bee activity, Tree is vigorous.

## CHERRIES

### **Montmorency Tart Cherry**

5-6' 1 for \$30

**Montmorency** cherries are excellent for preserves, making juice and for salads. Hardy, dependable, heavy bearer. Self pollinating. Fruit ripens in July. Zones 4-8. MxM® 60 Rootstock, 90% Mazzard seedling. Excellent resistance to Crown Gall, Collar Rot, and Bacterial Canker.

## PEACHES

### **Flamin'Fury PF-24C Peach** 5-6' 1 for \$30

**Flamin'Fury PF-24C Peach** is late-blooming peach variety has produced full crops in Michigan when other cold hardy varieties failed due to winter and spring freezes. The highly-colored fruit is large (average diameter about 2 3/4") with very firm, yellow freestone flesh. Skin color is about 90% red over greenish-yellow. PF 24-C Cold Hardy harvests about three weeks after Redhaven and has very good acidic-sweet flavor. This variety has good resistance to bacterial leaf, Self pollinating.

## PEARS

### **Clapp's Favorite**

5-6' 1 for \$30

### **Flemish Beauty**

5-6' 1 for \$30

2 for \$56 One of each

**Clapp's Favorite** is handsome and hardy. Vigorous tree has an upright growth habit and produces large, sun-yellow pears with a red cheek. Fruit is juicy with a fine sweet texture, ideal for fresh-eating and canning. Harvest a week or two before Bartlett. Zones 4-7. Rootstock is OHxF 87.

**Flemish Beauty** is a large, highly flavored variety that produces tasty fruit. The skin is creamy yellow in color and sometimes lightly blushed with bright red. The tree is vigorous and productive. Rootstock is OHxF 87.

These pears are grouped together for pollination success. Select a variety when ordering a single tree.

OHxF 87 makes a tree slightly smaller than Bartlett on seedling root and is considered a semi-dwarf tree. The OHxF selections are compatible with most pear varieties and are known for their tolerance to blight and decline.

## PLUM

### **Early Italian Prune**

5-6' 1 for 30

**Early Italian Prune** Early Italian Prune is a hardy and vigorous mid season plum, with a oblong shape and freestone flesh. Great for eating fresh or preserving, the sweet flavored plums flesh turns from yellow green to a rich red wine color when cooked. This is a self pollinating tree great for commercial production.

**All fruit tree varieties need full sun and protection from wildlife!**

## FRUIT TREE PLANTING GUIDE

Fruit Tree	Spacing Between Trees Rows		Bearing age (years)	Potential yield at maturity (bushels/plant)
Apple	15 ft.	15 ft.	4-5	4
Cherry, sweet	25 ft.	25 ft.	5-7	75 qt.
Cherry, tart	18 ft.	18 ft.	4	75 qt.
Crabapples	10 ft.	16 ft.	2-3	
Pears	20 ft.	20 ft.	4-5	3
Plum	15 ft.	20 ft.	2-3	2

## FRUIT HEALTH INFORMATION AVAILABLE ONLINE:

- **Organic and Low-Spray Apple Production**  
(left column, click organic farming) [www.attra.ncat.org](http://www.attra.ncat.org)
- **Disease Management in Home Fruit Plantings**  
<http://www.oardc.ohio-state.edu/fruitpathology/organic/default%20organic.htm>
- **Integrated Pest Management Resources (Pocket Guides)**  
[http://shop.msu.edu/product\\_p/bulletin-e2720.html](http://shop.msu.edu/product_p/bulletin-e2720.html)
- **2018 Fruit Management Guide**  
[http://shop.msu.edu/product\\_p/bulletin-e0154.htm](http://shop.msu.edu/product_p/bulletin-e0154.htm)
- **Pocket Guide Weed Identification Nurseries and Landscapes**  
[http://shop.msu.edu/product\\_p/bulletin-e2982htm](http://shop.msu.edu/product_p/bulletin-e2982htm)
- **Pocket Guide IPM Scouting in Stone Fruits**  
[http://shop.msu.edu/product\\_p/bulletin-e2840htm](http://shop.msu.edu/product_p/bulletin-e2840htm)

## SMALL FRUITS

### **ASPARAGUS – MARY WASHINGTON ( 2 YEAR )**

**10 ROOTS FOR \$18 25 ROOTS FOR \$40**

Mary Washington produces larger spears, heavier yields and greater vigor than most other varieties. Size: 2 year roots. Imagine enjoying tender, tasty, vitamin rich asparagus fresh from your own garden! Surprisingly easy to grow, just set 100 roots, 1' apart, in rows 3' apart. They will produce enough to feed a family of 5 through the growing season, with more to freeze and enjoy through the winter. Hardiness Zone: 2 - 8 Color: Green Size: 2 Year Roots Light Requirements: Sun If your ground can be dug you can plant these right now, and have fruit this summer. Produces long, green tender spears with tight tips. Rust tolerant. Adapts to most climates and soil types. Zones 3-9.

### **BLACK RASPBERRIES– JEWEL (1 YEAR)**

**3 PLANTS FOR \$20**

Jewel Black Raspberry produces excellent yields of superb-quality berries. The fruit is glossy-black in color, a large size and has a rich raspberry flavor. It is an excellent choice for use in jams and jellies. Jewel is winter hardy and a very reliable choice.

### **BLUEBERRIES - BLUE GOLD, NORTH BLUE, NELSON (12"-18")**

**3 PLANTS FOR \$30**

**Blue Gold** Highbush cultivar. Quality of the fruit is excellent. Growth will be compact and low growing, producing many branches. Blue Gold is tolerant of extremely cold climates down to -35°. Height of bush 4-5'. Ripens late July. Zones 4-8. **North Blue** highbush/lowbush type cultivar. Height of bush is 20-30". Quality of fruit is very good. Survived winter temperatures to -35°F. **Nelson** favor is sweet with slight tartness. This is a good cultivar to plant for u-pick or commercial grower; it is a quality mid-late season fruit. Grown successfully in zones 4-8.

### **CRANBERRY – PILGRIM**

**1 PLANT FOR \$6**

Most of us think of the lowbush cranberry as being a plant just for bogs, but this cranberry has been growing on upland soil is prospering very well. Pilgrim is a very robust variety. It has thick, large, dark green leaves and forms a heavy mat. Fruit is medium large with glossy dark red color. Plant as you would blueberries. Plant 2 feet apart for a solid groundcover. Plant in full sun. Zones 2-7.

### **GRAPES – KING OF THE NORTH (2 YR #1)**

**1 PLANT FOR \$10**

A hardy blue grape excellent for juice, jelly and wine making. Vigorous, productive vines are resistant to common grape diseases and insects. Fruit is medium size, juicy, tart, born on tight clusters, and ripens early September. Zones 4-8. Full sun. Spacing 8' to 10' apart. Produces in third year.

### **GRAPES – FRONTENAC GRIS (1 YR #1)**

**1 PLANT FOR \$13**

Frontenac Gris coppery-peach colored grape clusters have the aroma of peach and apricot with hints of citrus. Frontenac Gris is usually cold-pressed to make white wine, but with it's unique flavor makes this an excellent table grape as well. Vigorous vines consistently produce abundant large clusters. Distance between vines 8'. Zone 3.

### **KIWI – ARCTIC(KENS RED FEMALE, ARCTIC BEAUTY MALE)**

**1 PLANT FOR \$9 2 PLANTS FOR \$16**

Arctic Kiwis require a sunny location, preferably with wind protection. The fruit is very high in Vitamin C. **Kens Red** fruit turns a beautiful red when ripe. Flavor of the red fruits are mild, but very sweet. **Artic Beauty** vines have high vigor and are very productive. Growing like a grape vine, the male beautifies walls, fences, or trellises with pink, white, and green variegated leaves by its third year. Hardy kiwis ripen mid to late September. Plant 10-20' apart. Zones 3-7.

### **LINGONBERRY (ERN TEDANK, BALS GARD)**

**2 PLANTS FOR \$15**

Lingonberry is a low growing evergreen shrub that expands through runners from the original plant. It produces a lovely small flower in the spring and again in summer. Yields medium sized, bright red, tart and lemony fruit. Likes acidic soil that is well drained and contains organic matter. They will grow in filtered or full sun and don't like a lot of fertilizer. Excellent for preserves, sauces and pastries. Grows to 8-16" and spreads up to 18". Zones 2-7.

### **RED RASPBERRIES – JOAN J (8-12")**

**5 PLANTS FOR \$23**

Joan J is a high-yielding, thornless, early primocane raspberry variety. The fruit is large and holds its size well. Berries are firm, easy picking with good flavor. Recommend a soil pH level of 6.5—6.8 for raspberry plants. Zone 4-8

### **RHUBARB – CRIMSON RED**

**1 ROOT FOR \$15**

Also known as Crimson Cherry and Crimson Wine, Crimson is reportedly the only variety of consequence in Oregon. It produces brightly colored red stalks with the unique characteristic of being red throughout. Spacing 3 feet, soil pH 6-8, Zones 3, Full sun.

### **STRAWBERRIES – CAVENDISH**

**25 PLANTS FOR \$22 50 PLANTS FOR \$40 100 PLANTS FOR \$72**

Cavendish strawberry, which originated in Nova Scotia, is the result of a cross between two varieties known for their winter hardiness and attractive, large fruit. It produces high yields that ripen over a long growing season. Excellent flavor and overall quality of the fruit makes this variety a good choice for commercial and home use. Cavendish is highly resistant to Red Stele and has some resistance to Verticillium Wilt.

## WOODLAND WILDFLOWERS & FERNS



Wild Geranium



Pink Lady Slipper



White Trillium



Jack in the Pulpit

### Wildflowers

Wild Geranium	3 for \$10	5 for \$16
Jack in the Pulpit	3 for \$12	5 for \$18
Pink Lady Slipper	3 for \$25	5 for \$40
White Trillium	3 for \$12	5 for \$18

### Ferns

Christmas Fern	3 for \$10	5 for \$16
Cinnamon Fern	3 for \$12	5 for \$18
Leatherwood Fern	3 for \$12	5 for \$18
Ostrich Fern	3 for \$13	5 for \$19



Cinnamon Fern



Christmas Fern



Leatherwood Fern



Ostrich Fern

## WILDFLOWER SEED

**Native Michigan Wildflower Seed Mix** \$22 - 1 oz. \$80 - ¼ lb. \$145 - ½ lb. \$270 - 1 lb.

A blend of 16 different perennials and 5 grasses all native to Michigan. Species list and directions are included.

## GROUNDCOVERS

**Michigan Bearberry** - This ground cover will trail over rocky and sandy hillsides and slopes. It prefers well drained and slightly acidic soils. Leaves are small and oval shaped. Bell shaped flowers are borne on two year growth. Round pea size fruit ripen in the autumn and are bright red making a spectacular show through the entire autumn and winter seasons. **1 PLANTS FOR \$9**

**Michigan Low Bush Blueberries** - *Vaccinium pensylvanicum* is the species. It is mainly used as an edible groundcover. Grows tight to the ground 3-4 inches. The foliage in the fall is bright orange, yellow and deep red. The plants have good hardiness and disease resistance. At least two cultivars should be planted to ensure cross pollination. Zones 3-7.

**Blue Sunset** - *The bright blue fruits are tiny but full of flavor.* (Orders will consist of one of each **2 PLANTS FOR \$20**

**Baby Blue** - *Light blue fruits are of fairly large size.* variety for cross pollination.)

**Creeping/Moss Phlox (Phlox subulata)** Needle-like, semi-evergreen foliage forms a tough, durable groundcover. Flowers profusely; a cheerful harbinger of spring. Plants come in 1½" x 1½" x 2" plugs and are 4-6" tall. Zones 2-9. Sun to partial shade.

**Emerald Blue** Lavish display of lavender-blue flowers

**Red Wings** Crimson-pink flowers with dark-red centers **6 PLANTS FOR \$12 12 PLANTS FOR \$22**

## NATURE BOOKS, OTSEGO COUNTY PLAT BOOK

<b>2016 Otsego County Land Atlas &amp; Plat Book</b>	\$28.30	Featuring aerial and township maps showing ownership, acreage, and natural features of Otsego County.
Animal Tracks of the Great Lakes	\$9.95	This pocket guide will help you identify tracks of all shapes and sizes from the Deer Mouse to the White-tailed deer.
Birds of Michigan Field Guide	\$12.95	This full color book contains 112 species of native Michigan birds.
Birds of Michigan	\$24.95	302 species are grouped and color coded for quick identification. Beautiful illustrations.
Landscaping with Native Plants	\$24.95	The first book in print to help identify Michigan's native plants; includes information on how to successfully grow them. Packed full of color photographs.
Michigan Trees	\$19.95	A guide to the trees of Michigan and Great Lakes region. The natural history, distribution, insect and disease problems and landscape uses are included for each tree species. A must for tree lovers!
Mushroom Hunter's Field Guide	\$28.95	This hardcover guide tells when, where and how to find edible mushrooms and how to avoid poisonous ones. Includes many color photos for identification.
Pocket Guide for IPM Scouting in Michigan Apples	\$14.00	Designed for easy use in the orchard, this book provides information and color photos to identify pests, pest damage and beneficial.
Pocket Guide for Grape IPM Scouting in the North Central and Eastern United States	\$20.00	A reference guide for easy use in the vineyard, this book provides information and color photos on pests, diseases, weather-related and nutritional disorders and more.
Trees of Michigan Field Guide	\$12.95	This full color book contains 105 species of native Michigan trees.
Wild Berries and Fruits Field Guide	\$14.95	Identify 165 wild berries and fruits of Michigan, Minnesota and Wisconsin.
Wildflowers of Michigan Field Guide	\$16.95	A colorful guide to 200 of Michigan's wildflowers, with excellent descriptions.

# SILVICULTURAL AIDS

<b>Bamboo Stakes - 4'</b>	1-50 35¢/ea.	51+ 30¢/ea.	Bamboo is strong and weathers well. Use for staking or marking plants and seedlings.
<b>Bat House</b>		\$25.00	Attract bats by providing shelter. Place 15' from the ground by attaching to a pole, tree or building out of wind. Under normal conditions, bats can eat 600-1,000 mosquitoes per hour! Locally made!
<b>Bird House</b>		\$20.00	Bring Eastern Bluebirds to your property by putting up a bluebird house. Locally made!
<b>Fertilizer Tablets</b>	50 - \$10.00	250 - \$47.00	Use one tablet per seedling at time of planting or put tablets in at the drip edge of existing trees.
<b>Flags</b>	Pack of 10	\$2.50	Flags are bright orange. (2½"x3"). Good for marking small trees.
<b>Garlic Sticks</b>	5 - \$3.50	10 - \$6.50	These unique sticks contain garlic oil and chili pepper to keep animals from browsing on plants.
<b>Spiral Fruit Tree Guards</b>	3'	\$2.00	Easy to install and adjust. Helps prevent sun scorch, mower and trimmer damage, rodent girdling and split bark caused by early frosts. Top quality polyethylene.
<b>Mesh Tree Guards - 24"</b>	1-50 85¢/ea.	51+ 80¢/ea.	These yellow rigid plastic mesh tubes protect seedlings from rodent and deer damage.
<b>Tree Mats</b>	3'x3'	\$2.50	Woven poly mats block 99% of light to keep weeds out for up to 5 years & encourages faster growth. Lets air and water through. Easy to install. Includes 5 large staples to hold in place.
<b>Soil Moist Root Moisturizer (Similar to Terra Sorb)</b>	\$2.00		Granular powder mixes with water to create a gel that adheres to roots to absorb and retain water like a sponge. Reduces shock and stress. Increases aeration. Helps reduce soil compaction. Lasts 1 year in soil. Treats approximately 1,250 seedlings. Recommended for sandy soil.
<b>Planting Bars</b>	For Sale For Rent	\$60.00 \$55.00 deposit+\$5	Planting bars increase the speed and convenience of planting seedlings. Insert blade with foot pressure to move aside soil and provide a hole for the seedling. Not intended for transplants.
<b>Plantskydd Ready-To-Use Deer Repellant Spray</b>		\$25.00	Safe, organic protection of plants from deer, elk, rabbits, squirrels, voles and more! Rain-resistant. 1 application lasts 3-4 months during growing season or 6 months over winter. Built-in fertilizer.
<b>Signs "Trees Planted"</b>		\$2.00	11.25"x7.5" Black and yellow metal signs that say "Trees Planted, Keep Off".

## TREE SALE ORDER FORM

Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
 Phone \_\_\_\_\_  
 Email \_\_\_\_\_

Make checks payable and send to:  
**Otsego Conservation District**  
 800 Livingston Blvd. Suite 4A  
 Gaylord, MI 49735  
 (989) 732-4021 / Fax (989) 731-7480

DESCRIPTION	SIZE	QUANTITY	DEPOSIT*	AMOUNT

**NOTE: Trees and shrubs may not be resold with roots attached.**

Deposit Total\*

\*Deposits are for tree bar rentals only.  
 There is a limited supply of some species. Order early!  
 Donations to O.C.D are tax deductible.  
**ORDERS MUST BE RECEIVED BY March 22, 2019**

Use blank paper or copies of order forms if additional lines are needed.  
**Thank you for your order!**

**Subtotal**  
**Add 6% tax**  
**Donation**  
**TOTAL**

**PAYMENT METHOD:** Check enclosed, Visa, Master Card, Discover



CVV Code (on back)

Card Account Number

Name \_\_\_\_\_ Expiration Date \_\_\_\_\_  
 (Name as it appears on the credit card. Please print.)

Signature \_\_\_\_\_ Billing Zip Code \_\_\_\_\_