

Seedlings



**Conservation
Products**



**Native
Wildflowers**



2023

Products and Services Catalog

**Living better with ~ Fresh air ~ Healthy Soils ~ Clean Water
~ More Recycling and ~ Less Waste**

All products and services are provided on a non-discriminatory basis.



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 www.missaukeecd.org

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 Larry Czelusta, Outreach Forester

2023 Annual Seedling and Conservation Products Sale

Orders may be placed by mail, phone, or online by **APRIL 14th**

Pick up Dates

Friday, April 28th
 10 am - 6 pm
 &

Saturday, April 29th
 9 am - 12 pm
or until product is sold out

Location

MSU AgBio
 Research Station
 5401 W. Jennings Road
 Lake City, MI 49651

Our Goal:

To provide low cost seedlings for reforestation, wildlife habitat restoration and landscaping. The majority of plants offered are native. A few seedlings are non-native, non-invasive and marked accordingly. All thrive in our region when planted in the appropriate site.

Determining Seedling Age

You will notice seedling ages designated as 1-0, 2-0, 2-1, etc. The first number indicates the number of years the seedling was in the nursery bed; the second number indicates the years in a transplant bed. Add the two numbers together to get the age of the seedling.

Tree Catalog Legend



Attracts Birds



Attracts pollinating insects



Host for Butterflies or moths



Attracts Wildlife

Soils Dry Moderate Wet

Sunlight Full Sun Partial Sun Full Shade

Native Species Indicated in Red

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Plan Before You Plant: Spacing

Crucial to a successful planting effort is site preparation and weed control. Tilling the soil before planting can help the roots get established. Weeds can be controlled with tillage, mulch, hand pulling and herbicide.

Windbreaks, Visual Screens, and Wildlife Habitat

Planted in two to four rows with rows placed 12 to 20 feet apart and trees and shrubs planted 3 to 16 feet apart within a row. Learn more about your tree species to know the optimal spacing. Mixing species will benefit wildlife and help prevent gaps should one species succumb to insects or disease.

Appropriate spacing of your plants will help you meet your conservation goals. The spacings given below are intended to be dense, and therefore suitable for the early years of plantation. Once the trees have reached a height of 25-30 feet, the plantation should be thinned. Thereafter, thinning should be done approximately every 10-15 years until the trees are mature.

Tree Spacing for Reforestation

Species	In Rows	Between Rows	Trees Per Acre
Pines	6'	8'	907
Spruces	7'	9'	690
Hardwoods	10'	10'	435

Plan Before You Plant: Soil Sampling

Missaukee Conservation District offers soil sampling cost-share to Missaukee County private property tax-payers in just **5 easy steps**:

1. Sign up with Jodi DeHate, MAEAP Farm Technician at the office or 231.839.7193 or jodi.dehate@macd.org 
2. Obtain soil sampling materials and collect the soil.
3. Submit to **Ceres Solutions** or **McBain Grain**.
4. Bring a copy of your receipt and test results to the Conservation District office.
5. Receive 50% reimbursement (up to \$100) for your soil sampling costs.

This program is underwritten by the Missaukee Conservation District 2018 milage.



When should you call a forester?

- When a logger calls you
- When you want your forest to be better for wildlife
- When your trees are sick
- When your property taxes go up



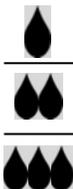
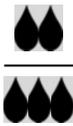
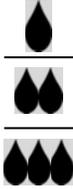
In 2022 -
23 QFP site verifications totaling 2033 acres.
91 landowners requested Forestry Assistance Program aid for 5999 acres.

Qualified Forest Program

Sound forest management benefits everyone. It produces wildlife habitat, clean water, forest products, and the satisfaction you are doing what is best for the land. The Qualified Forest Program is a state program that provides a property tax incentive for landowners pursuing sound and active forest management.

Contact
Larry Czelusta,
Forester, 231.775.7681
ext. 3 or
larry.czelusta@macd.org
to learn more.



Conifers		Moisture	Sun	Mature Height	Growth Rate	10 Trees	25 Trees	50 Trees	100 Trees	250 Trees	500 Trees
	<p>American Larch (<i>Larix laricina</i>) 1-0, 6-12" seedlings A deciduous conifer whose soft needles turn bright yellow in the fall, drop off, and come back green in the spring. Grows in a narrow form and thrives in very moist ground such as bogs or swamps. Fast growing tree.</p>			50-70'	Med to Fast 12-24"+ per year	\$18	\$42	\$83	\$162	\$375	N/A
	<p>White Cedar (<i>Thuja occidentalis</i>) 2-2, 18-24" transplants Also referred to as Arborvitae which in Latin means "tree of life" because it's bark, twigs, and sap are believed to have medicinal properties. The White Cedar can live well over 400 years.</p>		 	40-50'	Slow to Med 13-24" per year	\$42	\$100	\$188	\$350	N/A	N/A
	<p>Douglas Fir (<i>Pseudotsuga menziesii</i>) 2-1, 14+" transplants Excellent choice for Christmas tree because of the nice shape and soft, short needles that don't easily fall off. Grows in a pyramidal shape. Does best on a roomy site with an abundance of atmospheric moisture.</p>		 	40-70'	Med 13-24" per year	\$17	\$34	\$55	\$100	\$240	N/A
	<p>Fraser Fir (<i>Abies fraseri</i>) 2-2, 10-16", transplants The pyramidal shape and pointed crown make this tree a perfect Christmas tree or ornamental tree for the yard. Does best in well-drained soils and does not do well in high clay areas.</p>		 	30-50'	Slow Under 12" per year	\$23	\$55	\$105	\$185	\$413	N/A
	<p>Jack Pine (<i>Pinus banksiana</i>) 2-0, 10-18" seedlings A good choice for reforestation on difficult sites. Transplants easily, grows well even on drier sites. Provides windbreak or cover on the poorest of lands. Critical nesting habitat for the Kirtland's Warbler.</p>			50-60'	Slow 12" or less per year	\$11	\$24	\$32	\$55	\$125	\$220
	<p>Red Pine (<i>Pinus resinosa</i>) 2-0, 6-12" seedlings Good for windbreaks, ornamental, timber production and erosion control. Recommended for abandoned, overgrown tree farms.</p>		 	50-125'	Slow to Med 12-18" per year	\$10	\$16	\$28	\$50	\$110	\$200

PROUD TO SUPPORT THE MISSAUKEE CONSERVATION DISTRICT

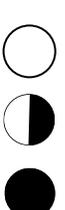
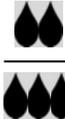
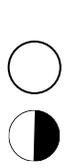
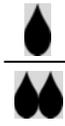
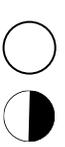
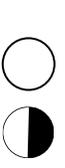
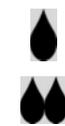
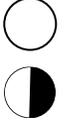


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Conifers		Mositure	Sun	Mature Height	Growth Rate	10 Trees	25 Trees	50 Trees	100 Trees	250 Trees	500 Trees
	White Pine <i>(Pinus strobus)</i> 2-1, 8-12" transplants Michigan's state tree. Good for ornamental, windbreaks, timber production, and wildlife cover. Soft, 5-needle bunches welcomes a variety of songbirds. Seeds are favored by rabbits, red squirrels and black bears.			80-100'	Fast 24"+ per year	\$12	\$29	\$57	\$112	\$278	\$500
	Black Spruce <i>(Picea mariana)</i> 2-0, 10-18" seedlings Small to medium sized slender tree growing in wet or poorly drained peat, clay and loam soils. Frequently found in cold, poorly drained areas such as swamps and bogs along with sphagnum mosses and horsetails.			20-50'	Slow Less than 12" per year	\$9	\$20	\$38	\$70	\$163	\$300
	Black Hills Spruce <i>(Picea glauca var. densata)</i> 2-1, 10-16" transplants A variety of white spruce known for growing dense and compact. Its needles are a beautiful green/blue. Grows in a pyramidal shape and is very symmetrical.			20-40'	Slow Less than 12" per year	\$12	\$29	\$57	\$112	\$278	\$500
	White Spruce <i>(Picea glauca)</i> 2-1, 10+" transplants Good for landscaping, reforestation, and Christmas trees as well as pulpwood and saw timber. Can tolerate heat, drought, shade, and high water. Recommended in place of Blue Spruce.			60-100'	Med 13-24" per year	\$12	\$29	\$57	\$112	\$278	\$500
	Norway Spruce <i>(Picea abies)</i> 2-0, 6-14" seedlings A popular tree for windbreaks but also used for Christmas trees. Stiff, shiny green needles. Branches tend to droop gracefully as tree matures.			40-60'	Med to Fast 12-24"+ per year	\$10	\$16	\$28	\$50	\$110	\$200
	Norway Spruce - PLUGS <i>(Picea abies)</i> 4-8" plugs			40-60'	Med to Fast 12-24"+ per year	25 plugs in a bundle for \$25					

Water Well Testing Available During Seedling Sale

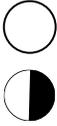
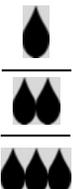
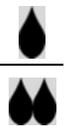
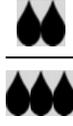
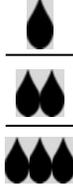
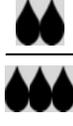
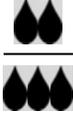
One of the goals of MAEAP is to protect groundwater. At the tree sale, well water screening will be available to test for nitrates and nitrites. Bring some of your well water in a clean glass jar, fill out a form, and hand the water to Jodi DeHate, our MAEAP Technician. You will receive immediate results.



Michigan Agriculture Environmental Assurance Program (MAEAP) is a proactive, voluntary program for farmers to help reduce risks on the farm.

Cost- Share Program

Cost share is being offered for Missaukee, Crawford, Kalkaska, & Wexford county farms that are working with the MAEAP program. This money can be used for spill kits, concrete pad for fueling, soil sampling, water testing, manure testing, etc. Contact Jodi DeHate, MAEAP Technician for more information at Missaukee Conservation District, 231.839.7193 or by email at jodi.dehate@macd.org.

Hardwoods		Mositure	Sun	Mature Height	Growth Rate	5 Trees	10 Trees	25 Trees
 <p>Amur Flame Maple (<i>Acer ginnala</i>, 'Flame')</p> <p>1-0,2-0, 18-24" seedlings</p> <p>True to its name this tree produces beautiful bright "flame" like colors in the fall. Tolerant of drought and a variety of soil types. Their multi stemmed and wide shape make them an excellent shade tree.</p> <p><small>Steve Knight, CC BY 4.0 https://www.flickr.com/photos/kimsterbloke/8122620375</small></p>				15-20'	Med 12-24" per year	\$11	\$20	\$48
 <p>Butternut (<i>Juglans cinerea</i>)</p> <p>1-0, 18-24" seedlings</p> <p>Good shade tree for landscaping. Nuts are sought by small mammals and deer. They can also be harvested for human consumption. The tree produces sap that can be boiled down to a sweet syrup.</p>				40-60'	Fast 24"+ per year	\$17	\$32	\$73
 <p>Hop Tree (<i>Ptelea trifoliata</i>)</p> <p>2-0, 18-24" seedlings</p> <p>Great for usage as an informal hedge or screen. Small thin fruits hang on during colder weather making it a good food source for birds and small mammals.</p>				15-20'	Slow to Med 12-18" per year	\$15	\$28	\$65
 <p>Northern Catalpa (<i>Catalpa speciosa</i>)</p> <p>1-0, 18-24" seedlings</p> <p>Beautiful white flowers bloom in late spring and the leaves often turn a yellow color in the fall. The tree produces long bean or legume like seed pods that split open allowing the seeds to release.</p> <p><small>Jim Lawrence, CC BY-NC-ND 4.0 https://plants.ces.ncsu.edu/plants/catalpa-speciosa/common-name/northern-catalpa/</small></p>				40-60'	Med to Fast 13-24" per year	\$12	\$23	\$53
 <p>Quaking Aspen (<i>Populus tremuloides</i>)</p> <p>1-0, 18-24" seedlings</p> <p>The leaves are a brilliant yellow in the fall and move or "quake" with the wind, producing a soothing sound through the forest. The leaves are eaten by a wide variety of wildlife. Grouse depend on the buds for winter food and the tree is a host to a myriad of birds and butterflies.</p>				40-60'	Fast 24"+ per year	\$15	\$29	\$68
 <p>Shagbark Hickory (<i>Carya ovata</i>)</p> <p>2-0, 3-0, 18-24" seedlings</p> <p>Requires a large growing space for its deep growing roots. The trunk can mature to be 2-3 feet in diameter and the tree can live to be 200-300 years old. Their oval nuts provide food for a variety of wildlife.</p> <p><small>Douglas Goldman, USDA/CC BY-NC 4.0 https://plants.ces.ncsu.edu/plants/carya-ovata/</small></p>				60-80'	Slow Under 12" per year	\$25	\$45	\$100
 <p>Speckled Alder (<i>Alnus incana</i>)</p> <p>1-0, 18-24" seedlings</p> <p>White pores speckle the bark giving the tree its common name. Fruiting cones provide a food source for birds in the fall and persist into the winter months.</p>				15-25'	Fast 24"+ per year	\$18	\$34	\$81
 <p>Sweet Birch (<i>Betula lenta</i>)</p> <p>1-0, 18-24" seedlings</p> <p>Attracts pollinators, butterflies, and birds. Produces small green flowers in early spring. Leaves often turn a golden yellow color in the fall. The inner bark has a wintergreen like scent.</p> <p><small>Adrian Thomale, CC BY-SA 3.0 https://creativecommons.org/licenses/by-sa/3.0/ via Wikimedia Commons</small></p>				40-70'	Med to Fast 13-24"+ per year	\$12	\$23	\$53

Shrubs		Mositure	Sun	Mature Height	Growth Rate	5 Plants	10 Plants	25 Plants
 <p>Beach Plum (<i>Prunus maritima</i>) 1-0, 18-24" seedlings White flowers in the spring attract pollinators, turning to a blue grape sized fruit popular among wildlife. Moderately growing multi stemmed shrub makes for a nice shrub border or hedge row.</p>				3-8'	Medium	\$15	\$28	\$65
 <p>Coralberry (Buck Brush) (<i>Symphoricarpos orbiculatus</i>) 1-0, 18-24" seedlings A multi-use shrub that provides support for many animals. A good choice for woodland gardens, streambank restoration, and natural privacy fence or hedge row. Attracts many bird species as berries persist through the winter.</p>			 	3-6'	Fast	\$15	\$28	\$65
 <p>Dwarf Bush Honeysuckle (<i>Diervilla lonicera</i>) 1-0, 18-24" seedlings Producing a fragrant trumpet like flower, this shrub attracts hummingbirds and pollinators. Great for using as ground cover since it is low-growing.</p>		 	 	2-3'	Slow	\$16	\$29	\$68
 <p>New Jersey Tea (<i>Ceanothus americanus</i>) 1-0, 12-18" seedlings An adaptable species with deep roots capable of surviving fires and drought. Makes a good shrub border and is effective as a shrubby ground cover for hard-to-grow areas such as dry rocky slopes and banks. A great native alternative to exotic invasive pests such as Japanese barberry or non-native honeysuckles.</p>		 	 	1-3'	Slow to Medium	\$16	\$29	\$68
 <p>Winterberry (<i>Ilex verticillata</i>) 1-0, 12-18" seedlings Most known for the bright berries persisting through winter months. The late summer flowers are inconspicuous, pollinated by insects with special value for honey bees. Useful for stream bank stabilization, wetland sites, or in rain garden designs. Due to the multi-branching nature of the shrub it makes an ideal nesting place for several bird species.</p>		 	  	5-15'	Medium	\$12	\$23	\$53

Volunteer with Us

All experience levels welcome, as we offer a variety of volunteer opportunities! We can help you fulfill community service requirements too.

Scan me



What can you volunteer with?

- Office activities
- Bi-annual stream monitoring
- Maintaining trails and native gardens
- Assist with tree and native plant sales
- Educational programs



Educational Services

The Missaukee Conservation District offers lessons, activities and resources to help you teach topics related to natural resources, conservation, or agriculture. Staff members can tailor a lessons for your classroom or other educational setting.

To schedule contact Sara Huetteman, Outreach Coordinator, at 231.839.7193 or sara.huetteman@macd.org





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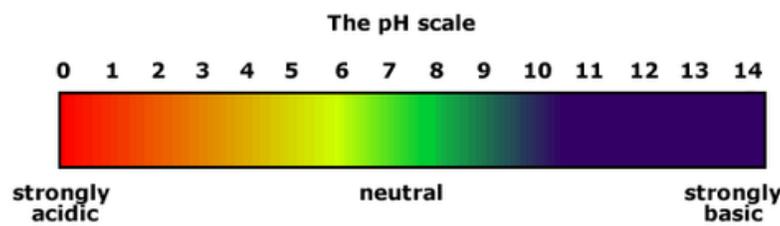


Edal Anton Lafferoy, CC BY-SA 3.0
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Fruits	Mositure	Soil Type	pH	Sun	Planting	1 Plant	5 Plants	10 Plants
Adams Elderberry Produces small sweet berries purplish/black in color. This fruit is high in Vitamin C and is often used to make jelly and wine. Green foliage, and white flowers make this an attractive shrub that bears fruit in summer. Shrub can grow 5-10 feet tall. **Two varieties are needed for pollination**		Any type of well-drained	5.5-6		5' apart with 6'-8' between rows	\$10	\$40	\$75
York Elderberry Produces large sweet berries black in color. This fruit is high in Vitamin C and is often used to make syrups, jelly, and tea. In the spring this plant produces large clusters of white flowers, making it a beautiful addition to landscaping. **Two varieties are needed for pollination**		Any type of well-drained	5.5-6		5' apart with 6'-8' between rows	\$10	\$40	\$75
Niagara Grapes (White, Seeded) 1 year seedlings Fruit ripens mid-season and produces an abundance of clusters. Flavorful fruit is good for juice, wine, and table. Grape leaves can also be used in home canning in place of store-bought crisper mixes - add two grape leaves per quart jar of pickled vegetable.		Any type of well-drained	5.5-7		5' apart	\$7	\$28	\$45
Concord Grapes (Blue, Seedless) 1 year seedlings Flavorful and highly aromatic. A good all purpose grape used for jellies, juice, and sweet wine. Grape leaves can also be used for in home canning in place of store-bought crisper mixes-add two grape leaves per quart jar of pickled vegetable.		Any type of well-drained	5.5-7		5' apart	\$12	\$55	\$100
Darrow Blackberry Produces large, plump, sweet berries that are excellent for eating fresh, frozen, in desserts, and to make jam or jelly. While this plant has lots of thorns, it is very hardy and tolerates the cold better than thornless varieties.		Any type of well-drained	6.5-7		3-4' apart	\$10	\$43	\$75

Test your soil's pH level with soil sampling. See page 2 for more details on how we can help you!



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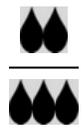
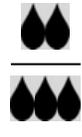
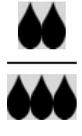
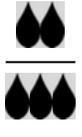
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Fruits	Mositure	Soil Type	pH	Sun	Planting	1 Plant	5 Plants	10 Plants
Mammoth Red Raspberries 1 Year Seedlings Junebearing shrub that ripens in late June. Produces high yields of firm sweet berries bright red in color. Perfect to eat fresh or in baked goods. A thornless variety that makes harvesting a breeze.		Any type of well-drained	6.5-7		2' apart	\$7	\$28	\$45
Anne Gold Raspberries 1 year seedlings Yellow raspberries are similar to red raspberries and can be planted with or near red varieties. Bearing typically in August until it frosts. The hollow stems of canes are used as nesting space by native mason and leafcutter bees.		Any type of well-drained	6.5-7		2' apart	\$7	\$28	\$45
Galletta Strawberries Super hardy, vigorous June bearing plants with large sized berries. Easy to grow. Highly productive and holds fruit size well through the season. Versatile berry that is great for jams, jellies, pies, fresh eating, and more.		Loamy soil Well-Drained	6.5-6.8		12-18" apart with 3-4' apart between rows	\$2	\$8	\$12
White Carolina Pineberry Strawberry Everbearing strawberry with a delicious blend of strawberry and pineapple like flavors. Unique coloring of a white berry with red seeds is sure to make this fruit a hit at the table or farmer's market. Great for eating fresh or frozen.		Loamy soil Well-Drained	6.5-6.8		12-18" apart with 3-4' apart between rows	\$2	\$8	\$12



Tree and Pollinator Habitat Assistance to Landowners

Interested in planting trees, shrubs, native plants and/or grasses on your property? The United States Department of Agriculture Natural Resources Conservation Service, USDA-NRCS, can help provide proper technical assistance and planning on your land which would benefit future generations for years to come.

We will gladly schedule a site visit. With verified land ownership, a plan of your decision will be generated and USDA-NRCS will provide information on potential programs to assist you financially.

Contact your local USDA-NRCS office today to get your plan started.



Jeff Fewless
 District Conservationist
 jeff.fewless@usda.gov

Lynnette Robertson
 Soil Conservationist
 CTAI* Technician
 lynnette.robertson@usda.gov

231.775.7681 ext. 3

**Conservation Technical Assistance Initiative*



Technical and Cost-Share Assistance

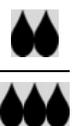
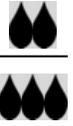
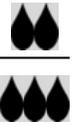
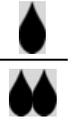
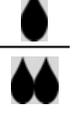
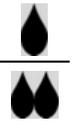
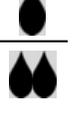
NRCS and CTAs work in collaboration to help landowners manage and improve forest, farm, and range lands including:

- Irrigation water management
- Resource assessment and management
- Practice design

Financial assistance is available for several land improvement projects including:

- Forest management
- Habitat restoration
- Agriculture
- Pollinator projects

Contact Lynnette or Jeff with questions regarding planting, site preparation or suitability of seed mixes.

Fruit Trees	Mositure	Sun	Mature Height	Fruit Bearing	Cost per Tree
 <p>Baldwin Apple 5/8" caliper tree Baldwin is a medium to large apple with bright red striping over a green skin. Baldwin apples make great cider and are wonderful pie apples due to their hardness that retains shape and crispness when baking. *Requires pollen from two other types of apple trees to produce apples.</p>			12-16' tall	2-4 years	\$30
 <p>Auvil Early Fuji Apple 3/4" caliper tree This red apple is often large and round with a white flesh. This early Fuji apple ripens 5-6 weeks earlier than the original Fuji variety. Great fruit for eating fresh or as a replacement for any recipe that calls for original Fuji apples. Sweet apple with a slight honey flavor. **See pollination information below</p>			8-10' tall	2-5 years	\$30
 <p>Royal Red Honeycrisp Apple 5/8" caliper tree Brighter red in color than the original Honeycrisp apple, the Royal Red variety is sweet, crisp, and juicy. Great for eating fresh, adding to baked goods, making pies, or applesauce. This apple variety stores well. Resistant to scab disease. **See pollination information below</p>			14-18' tall	2-8 years	\$33
 <p>Goldrich Apricot 3/4" caliper tree Goldrich apricots are bright orange in color with a firm flesh. The tree is vigorous and produces large, oval, attractive fruits with little fuzz. Great choice for drying or eating fresh. Resistant to winter injury. Requires pollination. Rival apricot is a good suggested pollinizer for this variety.</p>			15-25' tall	3-4 years	\$32
 <p>Rival Apricot 3/4" caliper tree Rival apricots have a light orange skin with a red blush coloring and are high in Vitamin A. Smooth texture with mild flavor and low acid make this a great fruit for eating fresh or making preserves. Vigorous and productive tree that requires cross pollination. Can be pollinated with Goldrich Apricot.</p>			15-25' tall	3-4 years	\$32
 <p>Balaton Tart Cherry 5/8-3/4" caliper tree Larger and firmer than most tart cherries, with a deep burgundy-red color throughout the skin and juicy flesh. Self fertile but bears larger crops when pollinated with another pie cherry tree. Moderately resistant to cherry leaf spot, brown rot, and rain cracking. Bears fruit end of July towards mid August.</p>			12-15' tall	3-5 years	\$33
 <p>Lapins Sweet Cherry 3/4" caliper tree Self pollinating tree with beautiful white flowers in the spring. Lapins have a mild deliciously sweet flavor; great for eating fresh, frozen, or prepared. Taste is similar to a Bing cherry and can often be substituted in recipes. Resistant to fruit cracking and to bacterial canker.</p>			18-25' tall	2-3 years	\$32

*Baldwin apples are triploid and only produce sterile pollen; therefore, should not be purchased to pollinate other apple varieties.

**Apple trees require cross-pollination for fruit set. Trees should be located within 100' of each other for best pollination.



Tree Packs for Wildlife	10 Seedlings per Pack
Deer Food Pack 12-18" seedlings American Hazelnut, Chinkapin Oak, Persimmon, Domestic Apple, Coralberry (Buckbrush)	\$37
Wildlife Pack 6-12" seedlings Swamp White Oak, American Hazelnut, Ninebark, American Plum, Red Osier Dogwood	\$26
Turkey Forage Pack 12-18" seedlings Black Oak, Wild Grape, Washington Hawthorn, Sargent Crabapple, Black Elderberry	\$30
Wetland Pack 12-18" seedlings Spice Brush, Pussy Willow, River Birch, Button Bush, Nannyberry	\$26
Pollinator Pack 12-18" seedlings Red Osier Dogwood, Choke Cherry, American Plum, Meadowsweet, Pasture Rose	\$35

Seed Mixes provided through Pheasants Forever

 Seed Mixes	Diversity	Planting	Moisture	1/2 Acre	1 Acre
CRP Wildlife Biologist - Mix of native grasses and wildflowers including: <i>Big Bluestem</i> , <i>Coreopsis</i> , <i>Blue Vervain</i> , <i>Purple Prairie Clover</i> , and two types of <i>milkweed</i> . Pheasants Forever preferred mix.	21 Species	mid May-mid June	☹☹	\$41	\$82
Pollinator - Two types of sunflowers, <i>Partridge Pea</i> , and two types of <i>milkweed</i> just to name a few. For switchgrass plantings to sequester carbon and provide wildlife cover, NRCS typically recommends 10#/ac. So double the seed is suggested.	19 Species	mid May-mid June	☹☹	\$65	\$129
Diverse Tallgrass - Provides excellent nesting and brood for pheasants, quail, and other wildlife. Mix of grasses and wildflowers including: <i>Indiangrass</i> , <i>Canada Wildrye</i> , <i>Stiff Goldenrod</i> , <i>Wild Bergamot</i> , and <i>Evening Primrose</i> .	17 Species	mid May-mid June	☹	\$66	\$132
Diverse Shortgrass - Provides excellent nesting and brood for pheasants, quail, and other wildlife. Mix of grasses and wildflowers including: <i>Canada wildrye</i> , <i>Prairie Junegrass</i> , <i>Black-eyed Susan</i> , two types of <i>coneflower</i> , and <i>Sideoats Grama</i> .	16 Species	mid May-mid June	☹	\$68	\$136
Native Wildflower Honeybee Inter-seeding - All wildflower mix includes <i>Wild Bergamot</i> , <i>Purple Prairie Clover</i> , <i>Black-eyed Susan</i> , and two types of <i>Mountain Mint</i> . Great for honey bee projects.	11 Species	mid May-mid June	☹☹	\$10	\$20
Wildflower Mix (Moderate sites) - All wildflower mix includes two types of <i>milkweed</i> , two types of <i>sunflower</i> , <i>Foxglove Beardtongue</i> , <i>Purple Prairie Clover</i> , <i>Partridge Pea</i> , <i>Black-eyed Susan</i> .	10 Species	mid May-mid June	☹☹	\$25	\$45
Wildflower Mix (Wet Sites) - All wildflower mix includes <i>Swamp milkweed</i> , <i>Purple Prairie Clover</i> , <i>Common Boneset</i> , <i>Spotted Joe-Pye Weed</i> , <i>Sneezeweed</i> , <i>Great Blue Lobelia</i> , <i>Wild Bergamot</i> , <i>Evening Primrose</i> , <i>Foxglove Beardtongue</i> , and <i>Golden Alexander</i> .	14 Species	mid May-mid June	☹☹☹	\$51	\$101
Winter Cover - <i>Switchgrass</i> . Requires a soil temperature of above 50 degrees and a more compact soil. Grass grows 3-5' tall and is good for wildlife habitat and erosion control.	1 Species	mid May-mid June	☹☹	\$28	\$56
Grass Only - Includes <i>Big Bluestem</i> , <i>Canada Wildrye</i> , <i>Switchgrass</i> , <i>Little Bluestem</i> , and <i>Indiangrass</i> . To promote a diverse mix of grasses and forbs for biodiversity, Grass Only and Pollinator should be ordered for EQIP and CSP pollinator plantings.	5 Species	mid May-mid June	☹☹	\$32	\$63
Sandy Soils Grass Mix - Includes <i>Blue grama</i> , <i>Canada Wildrye</i> , <i>Sand lovegrass</i> , <i>Junegrass</i> , <i>Purple Prairie Clover</i> , <i>Showy Tick-trefoil</i> , <i>Yarrow</i> , <i>Black-eyed Susan</i> , <i>Showy Goldenrod</i> , <i>Sky Blue Aster</i> , and <i>Hoary Vervain</i> . A mix that does well in dry sandy soils.	19 Species	mid May-mid June	☹	\$75	\$149

Order Native Wildflower Plants for Spring by March 31! - Price includes tax

SCIENTIFIC	COMMON	38 Cell		Quart		FLOWERS			SUN			SIZE			MOISTURE			NOTES*
		Quantity	Quantity	Quantity	Quantity	color	time	full	part	shade	height	dry	avg	wet				
<i>Anemone canadensis</i>	Canada Anemone	n/a				White	May-Jul	x	x		1'-2'		x	x			O	
<i>Aquilegia canadensis</i>	Columbine	n/a				Red/Yellow	May-Jul	x	x		1'-3'		x				LH, B	
<i>Asclepias incarnata</i>	Swamp Milkweed	n/a				Pink	Jul-Aug	x	x		3'-4'		x	x			LH, N	
<i>Asclepias syriaca</i>	Common Milkweed	n/a				Pink	Jun-Aug	x			3'-4'	x	x				LH, N, S	
<i>Baptisia lactea</i>	White Wild Indigo	n/a				White	Jun-Jul	x	x		3'-5'	x	x					
<i>Chamerion angustifolium</i>	Fireweed	n/a				Pink	Jun-Aug	x	x		3'-4'	x	x	x				
<i>Coreopsis lanceolata</i>	Sand Coreopsis	n/a				Yellow	Jun-Aug	x			1'-2'	x	x				RR, B, LB	
<i>Eupatorium perfoliatum</i>	Boneset	n/a				White	Jul-Sep	x	x		3'-5'		x	x			N, RR	
<i>Geum triflorum</i>	Prairie Smoke	n/a				Pink	May-Jun	x	x		.5'-1'		x				NC	
<i>Helenium autumnale</i>	Sneezeweed	n/a				Yellow	Aug-Oct	x			3'-5'		x	x				
<i>Liatris scariosa</i>	Northern Blazing Star	n/a				Pink	Jul-Sep	x			3'-4'	x	x				N	
<i>Lobelia cardinalis</i>	Cardinal Flower	n/a				Red	Jul-Aug	x	x		2'-4'		x	x			CM, B	
<i>Lobelia siphilitica</i>	Blue Lobelia	n/a				Blue	Jul-Sep	x	x		1'-3'		x	x			PP	
<i>Lupinus perennis</i>	Wild Lupine	n/a				Blue	May-Jun	x			1'-2'	x					LH	
<i>Monarda punctata</i>	Horsemint	n/a				Yellow	Jul-Sep	x			1'-3'	x					N	
<i>Opuntia humifusa</i>	Prickly Pear	n/a				Yellow	July	x			1'	x					TH	
<i>Iris versicolor</i>	Northern blue flag Iris	n/a				Blue	Jun-Jul	X	X		2'-3'		X	X			EW	
<i>Pycnanthemum virginianum</i>	Mountain-Mint	n/a				White	Jul-Sep	x	x		2'-4'		x	x				
<i>Silphium integrifolium</i>	Rosin Weed	n/a				Yellow	Jul-Aug	x			4'-5'		x					
<i>Silphium perfoliatum</i>	Cup Plant	n/a				Yellow	Jul-Sep	x	x		4'-7'		x	x			O, PP, B, RR	
<i>Antennaria parlinii</i>	Pussytoes	n/a				White	Apr-Jun	X			0.5-1'	x					GC	
<i>Symphotrichum pilosum</i>	Frost Aster	n/a				Blue	Jul-Nov	X			3'-5'	x						
<i>Solidago speciosa</i>	Showy Goldenrod	n/a				Yellow	Aug-Oct	x			2'-5'	x	x				N, PP	
<i>Symphotrichum laeve</i>	Smooth Aster	n/a				Lavender	Aug-Oct	x			2'-4'	x	x					
<i>Tradescantia ohimensis</i>	Spiderwort	n/a				Blue	May-Jul	x	x		2'-3'	x	x				LB	
<i>Vernonia missurica</i>	Ironweed	n/a				Purple	Aug-Sep	x	x		4'-6'		x	x				
<i>Ammophila breviligulata</i>	American Beach Grass	n/a				Green	Mar-Sep	X			2'-4'	X						
<i>Carex vulpinoidea</i>	Fox Sedge	n/a				Green	May-Jun	x	x		2'-3'		x	x				
<i>Schizachyrium scoparium</i>	Little Bluestem	n/a				Green	Aug	x			2'-4'	x	x				FC, LH	
<i>Panicum virgatum</i>	Switch Grass	n/a				Green	Jul-Aug	x	x		3'-5'	x	x	x				
Kits	Butterfly		n/a															
	Grassland		n/a															
	Monarch		n/a															
	Pollinator		n/a															
	Rain Garden		n/a															
	Tall Prairie		n/a															
	Semi-Shade		n/a															
Shoreline		n/a																
Order Deadline: March 31st Please mail completed order form to: Missaukee Conservation District 6180 Sanborn Rd Lake City, MI 49651	Total Quantity																	
	Cost Per Item	x \$80	X \$8															
	Total per Size																	
	4% Credit Card Fee																	
	Grand Total																	
*includes tax																		
* Total quantity x price																		
*only applies if paying by credit card																		
*add total \$ per size together + credit card fees																		
Order online at: www.missaukeecd.org Please call our office with questions 231.839.7193																		

Name: _____
 Street: _____ PO Box: _____
 City/State: _____ Zip Code: _____
 Phone: _____ Email: _____

Card Number: _____
 Exp Date: _____ 3 Digit Code: _____ Visa MasterCard Discover
 Cash Check Number _____
 Signature: _____

*Key to Notes Codes

- B = Provides seed, fruit, or nectar for birds
- CM = Consistent moisture required i.e. soil should never dry out completely
- FC = Fall Color
- GC = Groundcover
- LB = Long bloom period
- LH = Larval host for butterflies
- N = Provides nectar for pollinators
- O = Opportunistic native plants that colonize aggressively without competition.
- PP = Attract pollinators and/or predatory (beneficial) insects.
- RR = Readily re-seeds
- S = spreads by underground suckers
- TH = Thorny
- EW = Emergent wetland

Order Native Wildflower Plants for Spring!

IMPORTANT INFORMATION

Please note wildflower orders are due **before** the tree sale orders but pick up for wildflowers is **after** tree sale pick up.

Order by mail, phone or online by **March 31st**.
Pick up is June 2nd, 3 - 5 pm,
Missaukee Conservation District Community Room
6180 W. Sanborn Road, Lake City, MI 49651



Butterfly Kit: 12-14 species which could include Little Bluestem, Butterfly milkweed, Golden Alexanders, Pearly Everlasting, Yarrow, Sand Coreopsis, Smooth Blue Aster and more.



Grassland Kit: 8-10 species which could include Big Bluestem, Indian Grass, Side Oats Grama, Brown Fox Sedge, June Grass, Purple Love Grass, Prairie Dropseed, and more.



Monarch Kit: 12-18 species which could include Bergamot, Butterfly weed, Stiff Goldenrod, Swamp Milkweed, Tall Coreopsis, Yarrow and more.



Pollinator Kit: 12-18 species which could include Frost Aster, Hairy Beardtongue, Leafy Prairie Clover, Pale Purple Coneflower, Showy Goldenrod and more.



Rain Garden Kit: 12-18 species which could include Bergamot, Cardinal Flower, Mountain Mint, Sneezeweed, Wild Blue Iris, Yellow Avens and more.



Tall Prairie Kit: 12-18 species which could include Big Bluestem, Culver's root, Cup Plant, Foxglove Beardtongue, Ironweed, Tall Sunflower, Rattlesnake master, Hoary Vervain and more.



Semi-Shade Kit: 12-18 species which could include Early Sunflower, Hairy Woodmint, Spiderwort, Tall Bellflower, Wild strawberry, Thimbleweed, Zig-zag goldenrod, and more.

Native Wildflower and Plant Kits - Please use Page 11 order form



Shoreline Kit: 12-18 species which could include Blue Vervain, Boneset, Meadowsweet, Riddell's Goldenrod, Swamp Aster, Swamp Milkweed, Wild Blue Iris and more.

Planting Aids can be ordered on Page 13.

For more information please visit our website.

Scan me



Planting Aids	Price/Quantity
CocoDisc® Two Sizes Available - Controls weeds and reduces water evaporation. Allows air to penetrate.	11.5" diameter disc -\$2 each 23.5" diameter disc - \$4 each
Marking Flags - 4"x 5" flag on 18" wire stake - Florescent pink flags with Missaukee Conservation District logo for marking seedlings (Pictured below).	\$0.20/each
Plantskydd® Animal Repellent - Vegetable fat base binds blood meal to repel deer, rabbits, voles, chipmunks and squirrels, as well as opossum. Effective up to 6 months over winter and 3-4 months during active growing season.	\$22/quart, spray bottle \$22/1-lb. granular shaker \$46/8-lb. granular shaker
Plat Book, Missaukee County 2021-2023	\$25/each + \$5 shipping
Slip n' Lock Tree Tags - 7" x 5/8" LDPE Plastic - White tags easy to write on and attach to tree branches.	\$3/10 \$5/25
Terra-Sorb® Rooting Gel - Super-concentrated material absorbs and stores water; releases on demand for increased survival and growth. Material lasts up to 5 years in the soil. Mixing rate: 1 oz to 1 gallon of water; may be adjusted depending on seedling's water needs.	\$3/1 oz \$7.50/3 oz \$15/ 8 oz
Tree Planting Bars - Constructed Locally - Heavy duty tool excellent for planting tree seedlings by hand.	\$35/each
Tree Wraps - 36" tall - Protects trees from frost crack and girdling from animals.	\$2.50/ each

Upcoming Events

Stay up to date by following us
on Facebook @missauk



Workshops are held at **Missaukee Conservation District Community Room** unless otherwise noted
Vermicomposting 101/ Feb. 11/10:30 am - 12 pm
Sara Huetteman, the Outreach Coordinator will teach participants how to maintain a composting system indoors with little space required (and little to no odor!) with a focus on using redworms (*Eisenia fetida*).

Landscaping for Habitat/Mar. 18/10 am - 12 pm
Sara Huetteman will lead this workshop on how to design a garden space enjoyable for both you and wildlife.

Earth Day Celebration/Apr. 22
10 am - Upcycled Bird Feeders and Houses
1 pm - Signs of Spring Hike at Nature Trails
4 pm - Volunteer at the Bird Wall
Come for one or come for all as we celebrate our planet Earth.

Spring Stream Monitoring/May 6/10 am
Spend a day on the stream and help collect aquatic insects & determine the health of Missaukee County rivers and streams. *Meeting place will be at the district or sampling site depending on the group.

ID Night for Stream Monitoring/May 8/6 pm
ID the samples taken during the Stream Monitoring.

Barn Quilt Painting/May 25/6 - 8 pm
Mimi Zwolak will lead this workshop painting a 1' x 1' square designed as a barn quilt. Cost \$25.

Rain Garden Workshop/June 7/6 - 7:30 pm
Sara Huetteman will review the planning, installation, and maintenance involved in building a rain garden. This workshop is great for both business owners and landowners!

Autumn Olive Removal Workshop/Aug. 17/ TBD
Vicki Sawicki of NCCISMA will lead this workshop on how to identify and control autumn olive on your land. Location to be determined. More details to come.

To register visit our website at: www.missaukeecd.org
or call our office at 231.839.7193

Forestry Series

Contact Larry Czelusta at 231.775.7681 ext. 3 or larry.czelusta@macd.org to register.

Cadillac Co-generation Plant Tour/Apr. 5/11 am **1525 Miltner Street, Cadillac, MI 49601**

The Cadillac co-generation plant produces electrical power for the Michigan power grid. Come learn how this is a valuable outlet in the forest products market and tour the plant. Lunch will be provided by Atlantic Energy. Pre-registration is required by *March 31*.
There is no cost.

Hardwood Marking for Landowners/May 6/ **9 am - 1 pm/Location TBD**

This hands-on, outdoor workshop is designed for landowners of small woodlots of northern hardwoods. It will instruct how to selectively mark their own hardwoods for a harvest. This workshop will only teach tree selection and will not teach volume estimation and appraisal. Pre-registration is required by *April 21*. Snacks and lunch will be provided. Bringing a clipboard is recommended. *Cost is \$30 per person.*

How Deer Browse Affects Forest **Management/June 24/Time TBD/South of Lake** **City**

Mark Beem has used wildland fencing to exclude deer on a recently logged area. This tour will examine the difference between deer allowed and deer excluded regeneration to further understand deer browsing. Pre-registration is required by *June 16*.
Cost is \$10.

Tree Farm Field Day/Sept. 16/9 am /Dan Ferris **Tree Farm, Cherry Grove Township (south of** **Cadillac)**

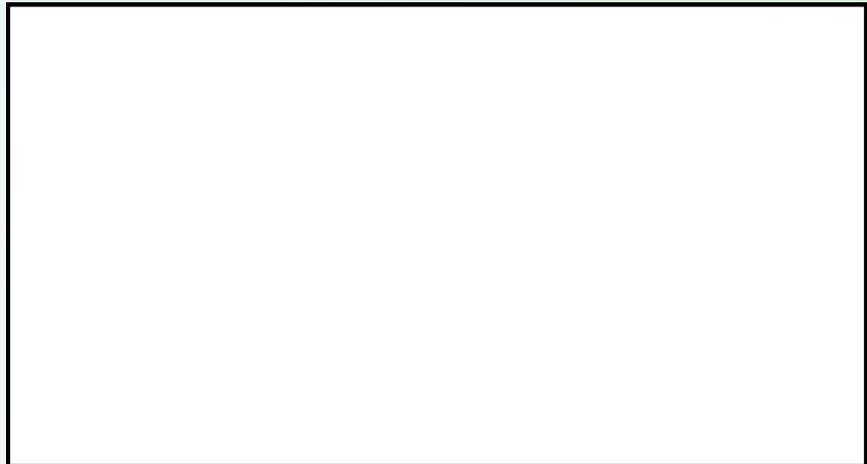
The Ferris family has enjoyed years of work and play in their forested property as out of state landowners. Come listen to stories about managing their Michigan forestland across multiple generations. Lunch will be provided by the American Tree Farm System. Pre-registration is required by *September 15*. *There is no cost.*

Missaukee Conservation District

6180 W. Sanborn Road
Lake City, MI 49651
231.839.7193
www.missaukeecd.org



Keep in touch with
our programs!



How to Plant Your Seedlings:

Weed Control is the most important measure to take to ensure survival and growth of seedlings. Removing the top two inches of soil and vegetation, two feet around the seedling significantly cuts down on weeds. Tilling or herbicides* can also be used, as directed on the label, before planting. *Read label of herbicides to see how long you have to wait to plant after application.

Before planting, keep the roots moist in a bucket, *but not soaking*, with moss, paper, or burlap; too much moisture can cause roots to rot. Store in a cool, damp place until planting.

When planting, remove one tree at a time to prevent other roots from drying. Consider using a pre-root dip, such as Terra-Sorb to help roots retain moisture. (See page 12)

- Insert a planting bar or shovel into desired location, work it back and forth to create a hole for the seedling.
- Do not add fertilizer to hole as this may burn the roots.
- Find the top root of the seedling and place the seedling in hole with top root just below the soil.
- Make sure *roots* are in a natural, uncurled position; cut the roots to about eight inches if needed; do not break them.
- Firm the soil around the seedling and water to eliminate air pockets. Add of mulch around the base of the tree, but not touching the trunk. (No mulch volcanos)

For best results:

- Plant after the threat of hard frost has past.
- Give your seedlings water while it establishes its roots, but careful not to over water.

**Living better with ~ Fresh air ~ Healthy Soils ~ Clean Water
~ More Recycling and ~ Less Waste**