



Shiawassee Conservation District

Your Land, Your Water ~ Your Michigan

1900 S. Morrice Road • Owosso, MI 48867 • (989) 723-8263, Ext. 3 Winter/Spring 2018

Featured Stories

- Septic System Assistance Program
- Energy Conservation
- MAEAP Misconceptions
- Winter/Spring Workshops
- Invaders in Our Community
- Benefits of a Conservation Plan
- 2018 Tree Sale
- Better Alternatives to Blue Spruce

Important Dates

- February 22 - 68th Annual Meeting
- March 24 - Wildlife Workshop
- March 29 - Farming for the Future III Workshop
- April 6 - Tree orders due
- April 19 - Tree order pickup 9 a.m. - 7 p.m.
- April 20 - Tree order pickup 9 a.m. - 4 p.m.
- April 22 - Earth Day
- April 27 - Arbor Day
- May 5 - Electronics Recycling Collection
- May 28 - Memorial Day

Find the latest news from the Shiawassee Conservation District.

Check out our NEW website
www.shiawasseeccd.org

and follow us on Facebook
@ShiawasseeConservationDistrict

Shiawassee Conservation District 68th ANNUAL MEETING

Thursday, February 22, 2018

Doors open at 5:30 p.m. Dinner served at 6:00 p.m.

D'Mar Banquet & Conference Center

1488 N. M-52, Owosso MI 48867

\$15.00 per person

RSVP by February 13, 2018

Shiawassee Conservation District (989) 723-8263 x3

Richard Kalisek

will be honored as the

2017 Conservation Farmer of the Year

Special Presentation

Hugh Hammond Bennett: The Story of America's Private Lands Conservation Movement



Join us as we take a look back in time, to the beginning of soil conservation, from the Dust Bowl and the Great Depression to the establishment of an agency to help the nation recover. This presentation is an inspiring reminder of why private land conservation is so important now and into the future.



If you need accommodations to participate in this event, please contact the Shiawassee Conservation District at (989) 723-8263, ext. 3 by February 13, 2018. USDA is an equal opportunity employer, provider, and lender.

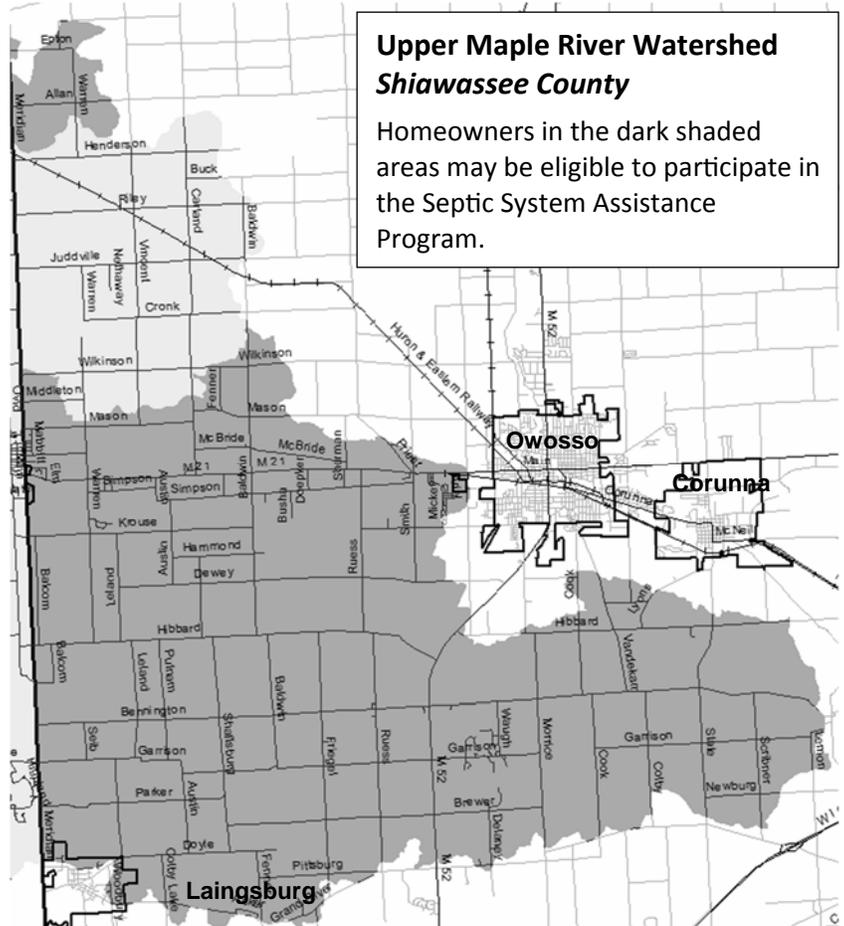
Septic System Assistance Program: Help to Replace Failing Household Septic Systems

The Shiawassee Conservation District is introducing their Septic System Assistance Program to homeowners in portions of the Upper Maple River Watershed. For a limited time, eligible homeowners can qualify for cash assistance to cover 75% of the cost of a new septic system.

When septic systems are properly working, they can treat household wastewater effectively. However, septic system failure is all too common. When a septic system is not properly maintained human and environmental health is at risk. Signs of failure include water backing up, foul odors and mushy ground with lush growth in the yard.

To enroll in the Shiawassee Conservation District's Septic System Assistance Program, participants must own and live in a home located in eligible portions of the Upper Maple River Watershed, and their septic system must be failing.

For more information on the Septic System Assistance Program, septic system maintenance or to schedule your free consultation, contact the Shiawassee Conservation District.



Energy Conservation - Save Energy, Save Money

It's no surprise that energy is a major business expense. The Shiawassee Conservation District and Natural Resources Conservation Service provide producers with technical assistance to help reduce energy input costs, increase productivity, and reduce air pollutants and greenhouse gas emissions caused when energy is generated for agricultural use.

Inefficient energy use on the farm can occur when facilities, equipment, or machinery operate more time than needed to meet production goals. It may also occur when equipment becomes worn out, outdated, or is poorly controlled or maintained.

The Environmental Quality Incentives Program (EQIP) On-Farm Energy Initiative offers financial and technical assistance for the

development of Agricultural Energy Management Plans. Energy experts work with producers to complete the plan, which will include

- an itemized list of the current energy use,
- recommendations and cost estimates for equipment improvements,
- potential energy reductions and financial savings for each recommendation, and
- length of expected payback for energy efficiency upgrades.

Once the plan is completed, producers have the opportunity to apply for financial assistance for the purchase and installation of equipment to improve energy efficiency. Examples of items eligible for energy efficiency improvements

include

- lighting,
- ventilation,
- grain dryers,
- maple syrup evaporators, and
- insulation and building envelope sealing.

Energy conservation, and the financial and technical assistance available through the Environmental Qualities Incentives Program will be a topic during the Shiawassee Conservation District's Farming for the Future III workshop on March 29, 2018.

For more information on the Farming for the Future III workshop and the On-farm Energy Initiative, contact the Shiawassee Conservation District office.

MAEAP Misconceptions

The Shiawassee Conservation District has been assisting Shiawassee County farmers to become Michigan Agriculture Environmental Assurance Program (MAEAP) verified since the program began in 2011. MAEAP is a proactive, voluntary and confidential program that helps farms prevent or minimize agricultural pollution risks and comply with state and federal environmental regulations.

Over the years the Shiawassee Conservation District has heard a few misconceptions about the program. Four common misconceptions are below:

1) "There is too much record keeping." - FALSE

The only record keeping required for MAEAP verification is what is already required by state and federal laws and statutes. The MAEAP goal isn't to require any additional records, but to ensure that producers are keeping the records that are required of them. The idea is to be sure that practices are documented to reduce producer's liability.

2) "If the technician comes to my farm I will get reported to other agencies." - FALSE

Reporting of farms is not what MAEAP does. Everything on the farm is handled in a confidential manner between the Shiawassee Conservation District and the producer. The goal of MAEAP is not to report farms, but to help improve environmental management on farms.

3) "MAEAP will tell me how I need to farm and manage my business." - FALSE

The Shiawassee Conservation District and the MAEAP never tells producers how to farm. In fact, the very mission statement of MAEAP is to find solutions for issues on farms that can be done within the producer's

Winter/Spring Workshops

**Farming for the Future III
Thursday, March 29, 2018**

Owosso Township Hall
9:00 a.m. - 1:30 p.m.
Lunch included

410 South Delaney Rd, Owosso
Learn the latest news in conservation and agriculture. Topics that interest Shiawassee County farmers will be discussed including Drainage Water Management, Energy Conservation and Cultural Resources.

This workshop is in partnership with the Shiawassee County Farm Bureau.

**Wildlife Habitat Workshop
Saturday, March 24, 2018**

Shiawassee Conservation Club
9:00 a.m. - 1:30 p.m.
4247 N. M-52; Owosso
Lunch included

Join us and other wildlife enthusiasts to learn ways to improve and conserve wildlife habitat. Topics include Chronic Wasting Disease, grassland management, and wildlife cooperatives.

This workshop is in partnership with the Shiawassee River Branch Quality Deer Management Association.

**RSVP for workshops by March 16, 2018
Shiawassee Conservation District (989) 723-8263 x3**

management and/or financial abilities. MAEAP is about helping producers discover their potential liabilities, and to work with them to reduce those liabilities, while still allowing them to maintain growing, productive and profitable enterprises.

4) "MAEAP is only for farms that heavily pollute." - FALSE

MAEAP is for all farms of all sizes. Working toward and achieving MAEAP verification benefits any farm involved. Oftentimes producers don't see opportunities to improve on practices or systems because they are highly involved in the day to day operation of the farm. Working with the Shiawassee Conservation District can give all farms an unbiased view of their current practices and recommend improvements or changes that will benefit them.

For more information about MAEAP, or other conservation assistance the Shiawassee Conservation District offers, contact the office today.

Electronics Recycling Collection

Saturday, May 5, 2018
9:00 a.m. - 12:00 p.m.

*Chippewa Trail
just north of VG's Grocery Store,
Owosso, MI*

Recycle your unwanted or broken electronics for free!

Items accepted include:

Televisions • Computers & Computer Components • Electric Power Tools • Small Appliances • Batteries • Ink Toner Cartridges • VHS Tapes • CDs & Floppy Discs • GPS units • Microwaves • Radios • Telephones & Answering Machines • Gaming Systems

Items Not accepted:

Light Bulbs • Refrigerators • Large Appliances • Dehumidifiers

**Contact the
Shiawassee Conservation District
for more information
(989) 723-8263 ext. 3**

Invaders in Our Community

Invasive species, we have all seen them, but we don't always recognize them. Invasive species are living things that are not native to an area and cause harm to the economy, environment or human health. Not all non-native species in Michigan are invasive or harmful. Many species including fruits, vegetables, livestock, and domestic animals are important to the economy and our lifestyle.

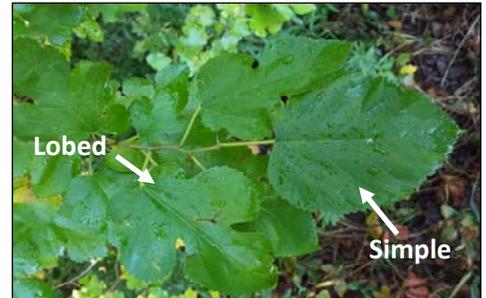
Invasive plants out-compete native species and change the balance of the ecosystem we rely on by reproducing and spreading quickly. They can establish in new areas and gain an ecological edge because insects, diseases and animals that naturally keep its growth in check in their native range are not present in their new habitat. Many invasive species are here to stay, but with good management and wise choices, we can

prevent further spread and protect our native species and habitats.

White Mulberry is an invasive commonly found in Shiawassee County. It is a tree that can grow 30-50 feet tall. The leaves are alternate, glossy green and can vary greatly in shape from simple to lobed on the same tree. The flowers are small, greenish to yellow and occur in spikes. The fruit is blackberry like, usually white but sometimes pinkish violet and so plentiful that it litters lawns and pavements. It grows well on a wide variety of soils and can withstand drought once it is well established.

Controlling invasive plants such as White Mulberry can be tricky and takes persistence and patience. Preventative measures are the best ways to control invasive plants. Learn to identify invasive plants found in

your area, remove them from your property and plant native species instead. For more information about invasive plants and their control, contact the Shiawassee Conservation District.



This picture of White Mulberry leaves was taken in September 2017 at Henderson Park, Henderson Michigan. Notice the varying leaf shapes on the same stem. White Mulberry trees can be found along the woods edge adjacent to the drive through Henderson park.

Benefits of a Conservation Plan

A conservation plan is a record of land management decisions that the landowner has made. It is meant to be actively used and updated as goals or operations change. The Shiawassee Conservation District and Natural Resources Conservation Service offer

free and confidential technical assistance to help develop personalized conservation plans.

Contact the Shiawassee Conservation District to get started on your conservation plan.

A conservation plan

increases the overall effectiveness of recommended systems or individual conservation practices;

sets up an implementation schedule that fits the customer's individual conservation practices;

improves the customer's bottom line;

helps the customer comply with environmental regulations;

improves water, soil, and air quality;

creates or improves wildlife habitat;

adapts to the customer's changing needs or goals; and

gives the customer marketing advantages through demonstrated sustainability.

USDA CROSSLAND SERVICE CENTER
1900 S MORRIS RD
CROSSLAND, MI 48827-8680
98723283 ext. 3

NRCS DISTRICT CONSERVATIONIST

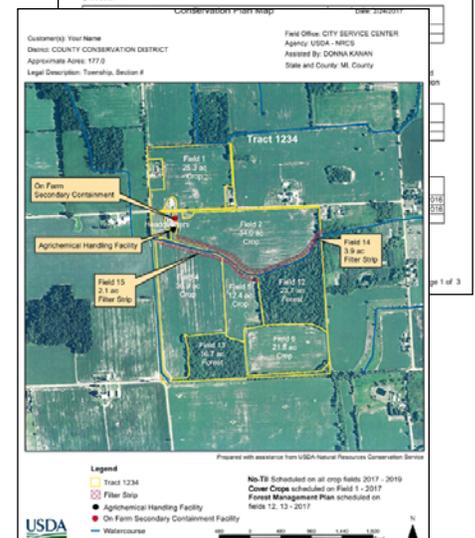
Conservation Plan

Your Name
Address
City, State, Zip

Agricultural Handling Facility
Structure to provide an environmentally safe area to mix on-farm chemicals such as pesticides and herbicides.

Tract	Field	Planned	Months	Year	Applied	Date
1234	HQ	1 mo	12	2015	1 mo	Dec 1 2015
	Total	1 mo				

On Farm Secondary Containment Facility
Install a permanently located facility designed to provide secondary containment of oil and petroleum products.



Example of a Conservation Plan and Conservation Plan Map.

SPRING 2018 TREE SALE ORDER FORM

SHIAWASSEE CONSERVATION DISTRICT

Name _____

Address _____

City _____ Zip _____

Phone-Day _____ Evening _____

Email _____

Office Use Only	
Order Number	
Date Received	
Processor's Initials	

TRANSPLANTS		Size	Age ▲	5	10	25	50	100	QUANTITY	TOTAL
CONIFERS	Balsam Fir	12-22"	P+2	\$15.00	\$30.00	\$60.00	\$100.00	\$170.00		
	Norway Spruce	15-24"	2+1	\$15.00	\$30.00	\$60.00	\$100.00	\$170.00		
	White Cedar	15-24"	2+2	\$15.00	\$30.00	\$60.00	\$100.00	\$170.00		
	White Pine	12-18"	2+2	\$15.00	\$30.00	\$60.00	\$100.00	\$170.00		
	White Spruce	15-24"	2+1	\$15.00	\$30.00	\$60.00	\$100.00	\$170.00		
BARE ROOT SEEDLINGS		Size	Age ▲	5	10	25	50	100	500	1000
CONIFERS	Norway Spruce	9-15"	2+0	\$4.00	\$7.00	\$15.00	\$25.00	\$45.00	\$160.00	***
	Red Cedar	5-10"	2+0	\$4.00	\$7.00	\$15.00	\$25.00	\$45.00	\$160.00	***
	Red Pine	6-14"	2+0	\$4.00	\$7.00	\$15.00	\$25.00	\$45.00	\$160.00	***
	White Cedar	6-12"	2+0	\$4.00	\$7.00	\$15.00	\$25.00	\$45.00	\$160.00	***
	White Pine	6-12"	2+0	\$4.00	\$7.00	\$15.00	\$25.00	\$45.00	\$160.00	***
	White Spruce	9-15"	2+0	\$4.00	\$7.00	\$15.00	\$25.00	\$45.00	\$160.00	***
DECIDUOUS	Butternut	12-18"	1+0	\$10.50	\$19.50	\$45.00	\$70.00	***	***	***
	Chinkapin Oak	12-18"	1+0	\$10.50	\$19.50	\$45.00	\$70.00	***	***	***
	Red Oak	12-18"	1+0	\$10.50	\$19.50	\$45.00	\$70.00	***	***	***
	Shagbark Hickory	12-18"	2+0	\$10.50	\$19.50	\$45.00	\$70.00	***	***	***
	Sugar Maple	12-18"	2+0	\$10.50	\$19.50	\$45.00	\$70.00	***	***	***
	White Oak	12-18"	2+0	\$10.50	\$19.50	\$45.00	\$70.00	***	***	***
SHRUBS	Highbush Cranberry	12-18"	1+0	\$10.50	\$19.50	\$45.00	\$70.00	***	***	***
	Nannyberry	12-18"	1+0	\$10.50	\$19.50	\$45.00	\$70.00	***	***	***
	Red Elderberry	12-18"	1+0	\$10.50	\$19.50	\$45.00	\$70.00	***	***	***
	Red Twig Dogwood	12-18"	1+0	\$10.50	\$19.50	\$45.00	\$70.00	***	***	***
SINGLE LARGE TREES		SIZE	PRICE EACH							
DECIDUOUS	Hyslop Crabapple	4-6'	\$19.50							
	Paper Birch	4-5'	\$12.00							
	Quaking Aspen	4-6'	\$15.00							
	Red Maple	5-6'	\$20.00							
	Sycamore	5-6'	\$20.00							
	Tulip Poplar	5-6'	\$20.00							
	White Flowering Dogwood	3-4'	\$10.00							
SMALL FRUIT PLANTS		SIZE	AGE	PRICE EACH						
FRUIT	Heritage Red Raspberry	14"	1	\$5.50						
	Arapaho Thornless Blackberry	14"	1	\$8.50						
	Blue Concord Grape	14"	2+0	\$10.00						
	Niagara Grape	14"	2+0	\$13.50						
									SUBTOTAL	

*** Contact the District to place a special order

FINAL DATE TO ORDER

April 6, 2018

Supplies are limited. First orders received will take first priority.

Pick up dates and times

Thursday, April 19

9 a.m. to 7 p.m.

Friday, April 20

9 a.m. to 4 p.m.

Orders can be picked up at the
Shiawassee County Fairgrounds
Draft Horse Barn
 2900 E. Hibbard Road, Corunna

* *Requires cross pollination*

▲ Age definitions

P+2: 3 years old, 1 year in plug container and 2 years in transplant bed

2+1: 3 years old, 2 years grown in seedling bed and 1 years in transplant bed

2+2: 4 years old, 2 years grown in seedling bed and 2 years in a transplant bed

1+0: 1 year old, 1 year grown in seedling bed

2+0: 2 years old, 2 years grown in seedling bed

FRUIT TREES - BARE ROOT	SIZE	EACH	QUANTITY	TOTAL
Cortland Apple *	4-6'	\$19.50		
Gale Gala Apple *	4-6'	\$19.50		
Honeycrisp Apple *	4-6'	\$19.50		
Northern Spy Apple *	4-6'	\$19.50		
Red Braeburn Apple *	4-6'	\$19.50		
BlackGold Sweet Cherry	4-6'	\$19.50		
Potomac Pear *	4-6'	\$19.50		
Sunrise Pear *	4-6'	\$19.50		
Redhaven Peach	4-6'	\$19.50		
Tilton Apricot	4-6'	\$19.50		
Fantasia Nectarine	4-6'	\$19.50		
Stanley Plum	4-6'	\$19.50		
TREE PLANTING ACCESSORIES				
Tree Flag		\$0.25		
Tree Protector		\$2.50		
WILDFLOWER MIXES				
Beneficial Bug Mix - 1oz		\$5.00		
Butterfly Mix - 1oz		\$5.00		
Pollinator Mix - 1oz		\$5.00		
PLANTSKYDD - DEER, ELK & RABBIT REPELLENT				
1 qt Pre-Mixed Spray <i>protects 80-100 plants 1' high</i>		\$22.00		
1 lb Soluble Powder Package <i>protects 200-400 plants 1' high</i>		\$28.00		
1 lb Granular <i>protects 600 sq ft</i>		\$15.00		
3 lb Granular Shaker Bag <i>protects 1,800 sq ft</i>		\$25.00		
1.32 gallon Pre-Mixed Spray <i>protects 400-800 plants 1' high</i>		\$60.00		

Send order form & full payment to: Shiawassee Conservation District

*Payments can be made in cash,
 check, or Visa/MasterCard*

1900 S. Morrice Road

Owosso, MI 48867

Phone: (989) 723-8263 Ext. 3

Total Back	
Total Front	
6% Tax	
Handling Fee	\$2.00
Donation	
Total Due	

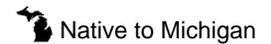
For use with credit card payment

Card Number - Visa or Mastercard			Exp. Date	Security Code
Authorization Signature		Name as it appears on Credit Card		
Address - Street / City / State / Zip				

Enclosed	
Check No.	

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. PA 189 of 1931 as amended.

Tree/Shrub Descriptions



	Variety	Height	Light Tolerance	Soils	Notes
Conifers	Balsam Fir 	30-80' tall	Shade tolerant	Can grow in poorly drained swamps to well drained uplands	Long persistent, aromatic needles that do not shed readily
	Norway Spruce	75-100' tall	Shade tolerant	Prefers moist soils	Winter cover for wildlife; shallow root system in clay or poorly drained soils
	Red Cedar 	25-60' tall	Sun; shade intolerant	Well adapted for most soils; drought resistant	Excellent wildlife value providing food & important protective & nesting cover
	Red Pine 	70-80' tall	Sun; shade intolerant	Prefers well drained, dry, acidic, sandy soils	Seeds used by songbirds & small mammals
	White Cedar 	40-70' tall	Shade tolerant	Prefers neutral to alkaline soils; poorly drained soils	Foliage & twigs eaten by deer; fruit eaten by birds
	White Pine 	60-100' tall	Moderately shade tolerant	Adapted to most soils in its range; prefers well drained sandy soils	Great for windbreaks; a preferred deer food
	White Spruce 	50-80' tall	Shade tolerant	Able to establish on wet sites	Found with balsam fir, red maple, trembling aspen
Deciduous	Butternut 	40-60' tall	Shade intolerant	Characteristic of moist, fertile soils of lower slopes, riverbanks & floodplains	Produces nuts in October
	Chinkapin Oak 	40-70' tall	Full sun; shade intolerant	Thrives in moist bottomlands with neutral or basic soils; tolerates dry sites with soils rich in lime	Acorns are sweet & palatable; eaten by squirrels, mice, chipmunks, deer, turkey & other birds
	Hyslop Crabapple	Semi-dwarf 12-20'	A vigorous and very hardy tree with a bluish bloom used to pollinate other apple varieties; fruit is small, edible with a somewhat tart and spicy flavor.		
	Paper Birch 	50-70' tall	Full sun, shade intolerant	Adapted to variety of soils; does best on well drained acidic, sandy or silty loam	Bark is brown to bronze on young trees; older trees have chalk white bark that peels away
	Quaking Aspen 	40-70' tall	Full sun; very shade intolerant	Thrives on wet-mesic, fertile sites; grows slowly on dry, sandy soils	Major source of food for beaver & white-tailed deer; leaves quake in breeze
	Red Maple 	50-70' tall	Partial to full sun	Grows well on a wide range of soils	Fruit attracts birds, squirrels & other mammals
	Red Oak 	75-100' tall	Full sun; moderately shade tolerant	Prefers dry upland soils	Acorns eaten by turkey & blue jay; relatively free of insect & disease pests
	Shagbark Hickory 	60-80' tall	Full to partial sun	Adaptable to many soils; grows well in light, well drained soils	Good ornamental tree; yellow fall color; relatively free of pest issues
	Sugar Maple 	50-75' tall	Full sun to shade	Prefers evenly moist & well drained soils; poor drought tolerance	Showy fall colors; principle source of maple syrup; wildlife value
	Sycamore 	59-98' tall	Full sun	Moist soils; tolerates flooding and soils with slow drainage	Large, fast growing tree; can tolerate weeks of flooding
	Tulip Poplar 	80-100' tall	Full sun	Prefers well drained, acidic soil	Fragrant greenish-yellow tulip like flowers; fruit attracts birds
White Flowering Dogwood 	16-32' tall	Very shade tolerant	Wide site tolerance; intolerant of flooded sites	Flowers May/June; dense clusters of green leaves surrounded by 4 very large white or pinkish petals	
Shrubs	White Oak 	50-80' tall	Full sun; moderate shade tolerant	Best on coarse, deep, moist, well-drained & slightly acid soils	Acorns eaten by wildlife, poisonous to humans; good ornamental tree
	Highbush Cranberry 	8-12' tall	Moderately shade tolerant	Frequent along streams, open or lightly shaded swamps & wet areas	Clusters of white flowers in May-June; scarlet fruit in September
	Nannyberry 	15-18' tall 6-10' wide	Full sun to partial shade	Wide variety of soil conditions; poor drought tolerance	Creamy white flower; red/blue edible berry
	Red Elderberry 	10-20' tall	Full sun; shade tolerant	Found on a large variety of soils	Small white flowers in spring; bright red berries in summer
Red Twig Dogwood 	8' tall	Tolerates most light exposures	Grows in wet soils	White flowers; while fruit changing to blue; red twigs in winter.	

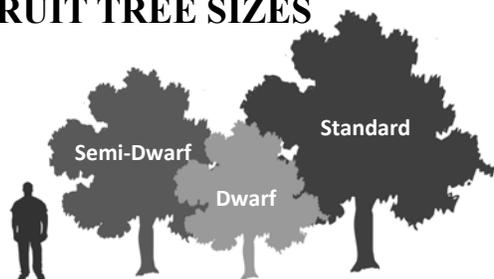
Small Fruit Descriptions

	Variety	Description
Fruit	Heritage Red Raspberry	Sweet, tart, mild tasting, dark red, medium sized fruit; produces abundant crops of berries perfect for eating fresh, canning, freezing, jams & jellies; self pollinating; ripens Sept through frost; grows on well drained, loamy soil
	Arapaho Thornless Blackberry	Sweet tasting, black, medium sized firm fruit with exceptionally small seeds; self pollinating; ripens mid-June; grows on well drained, loamy soil
	Blue Concord Grape	Flavorful & juicy; purple or dark blue seedless fruit; eaten fresh, used in juice, jams, jellies & wine; vines are decorative & can serve as a privacy screen in the summer
	Niagara Grape	Sweet, aromatic flavor; large yellow, seeded fruit; popular choice for wine & jam; can produce fruit for up to 20 years requiring yearly pruning

Fruit Tree Descriptions

Variety	Size	Description	Picking Date	Pollination
Cortland Apple	Semi-Dwarf	Heritage apple; large round fruit with very juicy & crisp flesh	9/15-9/25	Requires cross pollination
Gale Gala Apple	Semi-Dwarf	90-100% full red color with deep red stripping; mildly sweet flavor, crisp & firm; good eating apple	9/15-9/25	Requires cross pollination
Honeycrisp Apple	Semi-Standard	Very crisp, juicy & sweet tasting apple; very hardy & productive	9/15-9/25	Requires cross pollination
Northern Spy Apple	Semi-Dwarf	Heirloom apple, good pie & eating apple; delicious tart flavor; crimson, striped skin with firm yellow-white flesh	10/5-10/15	Requires cross pollination
Red Braeburn Apple	Semi-Dwarf	Large, very dense fleshed red apple with a nice sweet, but tart flavor; crisp and juicy; very productive and vigorous tree; one of the latest picking apples in fall	10/15-10/25	Requires cross pollination
BlackGold Sweet Cherry	Standard	Dark red, glossy, sweet cherries; frost tolerance, disease and crack resistant	6/10-6/25	Self fertile
Potomac Pear	Semi-Standard	Moderate sized, light green fruit with a buttery, fine textured flesh; flavor is pleasingly subacid with a mild aroma; trees are moderately vigorous with good fire blight resistance	9/10-9/20	Requires cross pollination
Sunrise Pear	Semi-Standard	Fruit is large, juicy, has sweet pleasant flavor: yellow skin with slight pink blush & little russeting; will store for a couple months	8/1-8/10	Requires cross pollination
Redhaven Peach	Standard	Large peaches with almost fuzzless skin over firm, creamy yellow flesh; fruit is great as a fresh snack or canning & freezing; tree is heavy bearing & cold tolerant	8/1-8/10	Self fertile
Tilton Apricot	Standard	Medium to small, golden yellow freestone fruit with dark red blush; great for canning & drying; very productive	7/15-7/25	Self fertile
Fantasia Nectarine	Standard	Large, egg-shaped, freestone fruit with very smooth skin; 70% bright red over brilliant yellow skin; smooth textured, yellow flesh with sweet & tangy flavor	9/5-9/15	Self-fertile
Stanley Plum	Standard	Excellent quality suited for fresh eating, canning, preserves & drying; fruit is large, dark blue skin, greenish-yellow fine grained flesh; tree is hardy, early bearing & a heavy annual bearer of fruit	9/10-9/20	Partially self-fruitful Cross pollination recommended for best results

FRUIT TREE SIZES



CROSS POLLINATION

Some varieties of fruit trees offered in this sale require cross pollination to produce fruit. To have cross pollination in an orchard there must be more than one variety of the same type of fruit in each planting.

Another option for apple pollination is plant a crabapple tree, such as the Hyslop Crabapple. They take up less space and produce an abundance of attractive flowers.

2018 Spring Tree Sale Ordering Information & Guidelines

- Return the completed order form with full payment to:
Shiawassee Conservation District
1900 S. Morrice Rd
Owosso, MI 48867
(989) 723-8263, ext 3
- The final date to order is **April 6, 2018**.
- All returned checks will be subject to a \$35 fee.
- After orders are placed, there will be a \$25 service charge for any substitutions or cancellations. There will be no charge when only additions are made to an existing order.
- No refunds on orders canceled after April 6, 2018.
- We do not guarantee survival. Our liability ceases when seedlings are picked up. 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. PA 189 of 1931 as amended.
- All plant material has been found to be in compliance with the National Plant Board standards of pest freedom. MDARD Pesticide and Plant Pest Management Division, License/Certificate NCI000670.
- The Shiawassee Conservation District reserves the right to cancel orders and refund payments due to reasons beyond their control.
- Substitutions made by the nurseries are beyond the District's control.
- Add orders carefully. Any errors \$10 and under will be considered a donation to the District.
- All donations will be deposited into the Shiawassee Conservation District general fund.
- Pictures and descriptions of all plants are available in the District office.
- Orders not picked up will not be refunded.
- Order pick up dates and times are as follows:

Thursday April 19, 9 a.m. - 7 p.m.

Friday April 20, 9 a.m. - 4 p.m.

Shiawassee County Fairgrounds

Draft Horse Barn

2900 E. Hibbard Rd, Corunna

Better Alternatives to Colorado Blue Spruce

Colorado blue spruce have been widely planted in the past, however they have been declining over the years in Michigan due to disease. The Shiawassee Conservation District is not offering blue spruce through the 2018 Spring Tree Sale, but is offering some great, and even better alternatives.

One of the most serious diseases affecting blue spruce in Michigan is a needle casting disease caused by the fungus *Rhizosphaera*. The disease causes the older needles on the tree to turn brown or purple, and drop from the tree. Over time, the tree appears very thin because only the current year's needles are remaining. Eventually, the tree will die from lack of nutrients, disease, or insect infestation due to the tree's weakened state. It is very likely that any nearby trees will be infected

because the fungus spread easily.

Infected trees can be treated, however treatments must be well timed, and can be difficult and expensive to complete. Additionally, they only break the disease cycle for one year, meaning the nearby trees that have the disease can easily pass it back the next year.

The Shiawassee Conservation District has been encouraging landowners to consider alternative options for Colorado blue spruce over the last few years.

Both White and Norway spruce are great alternatives to blue spruce. White spruce is very similar to blue spruce, native to Michigan, and is much more resistant to needle cast disease. Norway spruce is not native to Michigan, but has shown resistance to the disease.

Plantskydd Repellent



Plantskydd Deer Repellent's main ingredient is bloodmeal which works by emitting an odor that animals associate with predator activity, repelling the animal before it nibbles on plants. It stimulates a fear-based response which will have deer, opossum, rabbits, and many other animals looking for somewhere else to dine.

The District offers Plantskydd in pre-mixed spray, granular or powder. Supplies are limited. See the tree sale order form for pricing details.



Shiawassee Conservation District
 1900 S. Morrice Road
 Owosso, MI 48867

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2018 SPRING TREE SALE INFORMATION INSIDIE!



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www.shiawasseed.org

SHIAWASSEE CONSERVATION DISTRICT