



Shiawassee Conservation District

Your Natural Resource, *Resource!*

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

Spring 2008

Shiawassee Conservation District's 58th Annual Meeting

Thursday March 6, 2008
Memorial Healthcare Auditorium
826 W King Street, Owosso

Social 6:00 pm
Dinner buffet served at 6:30 pm

Presentation by Michigan United
Conservation Clubs
Awards and Door Prizes

Conservation Farmer of the Year
Glen Nethaway



**Michigan United
Conservation Clubs**
Presents:
**"Effective Habitat
Management for
Game Species"**

MUCC is the largest conservation organization in the nation and they work to conserve Michigan's wildlife, fisheries, waters, forests, air, and soils by providing information, education and advocacy. MUCC has published Michigan Out-of-Doors magazine since 1947 and hundreds of thousands of viewers watch Michigan Out-of-Doors Television Show each week.

\$10 per person

Reservations will be taken at the District office or at (989) 723-8263, ext. 3



FREE Well and Septic Seminar at Baker College!

Do you have well water? Do you use a septic tank? Do you value the quality of your drinking water? If you answered yes to any of these questions then we have a seminar for you....

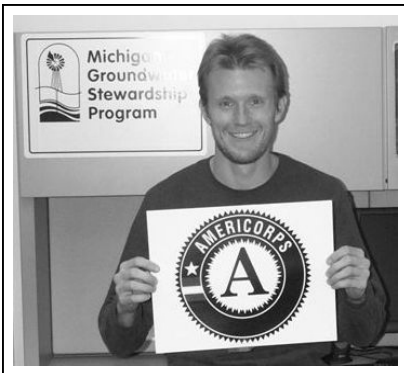
On February 5, the Shiawassee Conservation District and the Shiawassee County Health Department will be hosting a FREE informational seminar on water wells and septic tanks and how these systems are linked to the quality of the water we drink.

In Michigan, nearly half of our residents depend on groundwater for potable drinking water. Abandoned and/or improperly maintained wells and septic systems can provide a direct pathway for contaminants to reach our drinking water supply. By attending this seminar, you will gain valuable information about key characteristics of water wells and septic tanks as well as the importance of maintaining these systems in order to reduce groundwater contamination. Furthermore, you will learn about Point of Sale, a program in Shiawassee County that requires certain standards for wells and septic tanks be fulfilled before residents can sell their homes.

So landowners, realtors, all citizens, come join us for this exciting, informational, and FREE seminar. The Well and Septic Seminar will take place on Tuesday, February 5, from 6:30 pm to 8:30 pm at the Baker College Welcome Center (Conference Room B). Space is limited so if you are interested in attending or would like more information, please contact Josh Shields, AmeriCorps Environmental Educator, by Friday, February 1, 2008.

You may reach Josh at the Shiawassee Conservation District via phone (989) 723-8263 ext. 3 or email shieldsj2@michigan.gov.

New AmeriCorps Volunteer in Genesee, Lapeer, and Shiawassee Counties



Hello, my name is Josh Shields and I'm the new groundwater educator working in Genesee, Lapeer, and Shiawassee Counties. As part of AmeriCorps, the Shiawassee Conservation District, and the Michigan Groundwater Stewardship Program, I will be educating individuals and local community organizations about the importance of clean groundwater and what we can do to help protect this valuable resource.

The Michigan Groundwater Stewardship Program is a state-wide program with the primary focus being public education about the proper use of fertilizers and pesticides to reduce their subsequent effects on groundwater resources. This program also incorporates several risk assessment exercises for homeowners, including Home*A*Syst, Lake*A*Syst, and Lawn*A*Syst.

Such exercises allow homeowners to assign risk levels to household and lawn-care practices as they pertain to groundwater quality. As an AmeriCorps volunteer, I will conduct such risk assessments (and train others to do so) as well as give presentations to people of all ages about the importance of water quality issues.

So a little bit more about myself - I grew up in Hemlock, MI and went to college at Michigan Technological University, where I obtained a B.S. in Applied Ecology and an M.S. in Forest Ecology and Management. I enjoy all aspects of natural science so I'm looking forward to learning more about the role of aquifers, wells, and factors that influence the quality of the water that we drink. I'm especially excited about getting the opportunity to pass this information on to young people and local communities....

For more information about the Michigan Groundwater Stewardship Program or to schedule a FREE and CONFIDENTIAL Home*A*Syst, Lake*A*Syst, and/or Lawn*A*Syst, feel free to contact me at the Shiawassee Conservation District via phone (office: 989.723.8263 ext. 3) or email (shieldsj2@michigan.gov).

COST-SHARE MONEY AVAILABLE FOR FY2008

The Michigan Groundwater Stewardship Program (MGSP) strives to reduce risk of contamination to your groundwater supply. Approximately half of Michigan residents rely on groundwater for their drinking water, and if you live in a rural area, you are among the 90 percent dependent on groundwater for your water supply.

The Shiawassee and Genesee Groundwater Stewardship Program is currently accepting applications for cost share practices that will help reduce potential contamination of groundwater. The Shiawassee and Genesee Groundwater Stewardship Team has selected 14 practices that may be cost shared in 2008. The cost share application is enclosed with this newsletter.

The cost share practices are offered as an incentive for farmers and landowners to include these practices in their farming operations. Anti-back flow devices (3/4 in.), rinse nozzles, and pesticide storage signs are free with the completion of a Farm*A*Syst, Crop*A*Syst or Greenhouse*A*Syst. The Shiawassee/Genesee Groundwater Stewardship Program is also offering a stewardship allocation of \$250 for producers who complete a Farmstead, Cropping or Greenhouse system verification in the Michigan Agriculture Environmental Assurance Program (MAEAP).

In order to be eligible to participate in the cost

share program, the applicant must have completed a Farmstead or Greenhouse Assessment within the past 3 years. Farmstead, Cropping and Greenhouse Assessments are conducted jointly by the Groundwater Technician and the producer on a confidential basis. The process involves an assessment of current practices used on the farm that could lead to potential contamination of our groundwater resource. Alternative practices are then explored that could reduce the high-risk factors. If a Farmstead or Greenhouse Assessment has not yet been conducted or was conducted more than three years ago, please contact Tom Wert, Groundwater Technician, at the Shiawassee Conservation District to schedule an appointment.

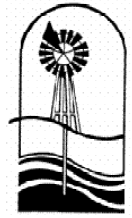
The Michigan Groundwater Stewardship Program is funded through fees associated with sales of pesticides and nitrogen fertilizers. The fees are used to provide technical and educational assistance in addition to the cost share funds.

Applications for cost share are due March 3rd at the Shiawassee Conservation District Office, 1900 S. Morrice Road, Owosso, MI 48867. However, applications will continue to be accepted after the deadline for 2 practices: abandoned well closures and emergency spill kits. If you are interested in a cost share practice(s), please fill out the enclosed application and return it to the Shiawassee Conservation District office by March 3rd.

FY2008 Cost Share Application

Shiawassee & Genesee County

Michigan Groundwater Stewardship Program (MGSP)



Please return to:

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

Fax: (989) 723-8491

All applications will be reviewed and **prioritized** by the Groundwater Stewardship Team and are subject to **funding limitations**. Requests that do not receive funding will be reconsidered as additional funding becomes available. Environmental risks on your farm may be a factor in determining cost share approval. To be eligible for 2008 cost-share funds, Shiawassee and Genesee County producers must have completed a Farm*A*Syst or Greenhouse*A*Syst within the past 3 years or be willing to complete a Farm*A*Syst or Greenhouse*A*Syst. Anti-backflow devices (3/4in.), rinse nozzles and pesticide storage signs are free with the completion of a Farmstead or Greenhouse Assessment. For more information or to schedule an appointment, please contact Tom Wert, Groundwater Technician, **at the Shiawassee Conservation District (989) 723-8263 ext. 3.**

Name _____ Phone Number _____ Cell Number _____

Address _____ Email _____

City, State, Zip Code _____

How did you find out about the Groundwater Program? _____

Place a checkmark next to the practice(s) for which you are requesting cost share funding. If more than one, please prioritize with 1, 2, 3 etc., with 1 being your first choice.

<u>Practice</u>	<u>Cost Share Rate</u>	<u>Max Amount</u>
_____ Abandoned Well Closure	100%	Zoned Agriculture
_____ Pesticide Inductor Spray System*	50%	\$500.00
_____ Dry Couplers*	90%	\$900.00
_____ Emergency Spill Kit	90%	\$90.00
_____ IPM Pest Scouting* (Max. 100 acres)	50%	\$175.00
_____ Manure Nutrient Analysis* (Max. 4 seasonal samples) (Limited to 3 consecutive years)	100%	\$30.00/Sample
_____ Pesticide Loading-off set Hydrant*	90%	\$750.00
_____ Pesticide.& Fertilizer Storage Locking Valves*	90%	\$360.00
_____ Pesticide Storage-Impervious Surface* (retro fit)	50%	\$1000.00
_____ Pre-Sidedress Nitrate Testing* (Max. 200 Acres)	100%	\$1.50/A
_____ Purchase of Equipment for Split N Application* #	75%	\$2000.00
_____ Spray Nozzles (New Low Drift/Calibrated)	75%	\$250.00
_____ Pesticide Management-switch to custom application* (Max. 200 acres)	50%	\$2.50/A
_____ Switch to Split N Application (Corn)* # (Max. 100 acres)	100%	\$4.00/A
_____ MAEAP Verification Stewardship Allocation Payment	100%	\$250.00

If there is any other **Groundwater Risk Related Practice**, that has merit that you would like to have considered by the State Groundwater Team as a cost-share practice for next fiscal year, please list:

APPLICATIONS FOR ALL ITEMS EXCEPT ABANDONED WELLS, SPILL KITS, RINSE NOZZLES, ANTI-BACKFLOW DEVICES AND PESTICIDE STORAGE SIGNS MUST BE RECEIVED BY MARCH 3, 2008. THE GROUNDWATER TEAM WILL BE MEETING TO REVIEW AND APPROVE REQUESTS ON MARCH 10, 2008.

* COST-SHARE FUNDS ARE AVAILABLE ONLY TO PERSONS THAT HAVE NOT PREVIOUSLY ADOPTED THIS PRACTICE AND/OR HAVE NOT PREVIOUSLY RECEIVED COST-SHARE FOR THIS PRACTICE OR EQUIPMENT.

FARM OPERATOR MUST CHOOSE BETWEEN "SWITCH TO SPLIT N APPLICATION" AND "PURCHASE OF EQUIPMENT", BOTH PRACTICES REQUIRE PROFESSIONAL "PRE-SIDEDRESS NITRATE TESTING" (PSNT) TO QUALIFY FOR COST SHARE.

Please answer the following questions (if applicable).

1. How many acres do you farm? _____ Soil type? (sand, loam, clay) _____
2. If applying for a Well Closure, what type of abandoned well is on the farmstead? (crock, drilled, driven)
What is the depth: _____ ft. and what is the diameter: _____ in. of the abandoned well.
3. Do you store pesticides and/or fertilizers: _____ seasonally, _____ all year or _____ never?
4. What is the distance from your pesticide storage and mix/load area to your well? _____ ft.
to surface water? _____ ft.
5. Have you received cost share assistance in the past from the Groundwater Program? (YES or NO)
If yes, for which practice(s)? _____
How much cost share money did you receive? _____ What year did you receive cost share? _____
6. What is the estimated cost of the practice(s) you wish to implement? _____
7. Have you completed a Farm*A*Syst or Greenhouse*A*Syst? (YES or NO) If yes, when? _____ (year)
8. If you are selected for a cost share practice, would you be willing to host an activity to showcase this cost share practices to other producers? (YES or NO)
9. What type of farming operation do you have? (Livestock, Crops, Nursery, etc.) _____
10. Do you regularly have your soils tested? (YES or NO) If yes, what is the usual frequency? _____
11. What Nitrogen Management practices have you previously utilized? _____

12. How many acres do you spray? _____ Have custom sprayed? _____
13. Do you custom spray for other farmers? (YES or NO) If Yes, how many acres? _____
14. Do you have a current private pesticide applicator's license? (YES or NO)
15. Please list the pesticides that you typically use each year:

16. If you are selected for a cost share practice, are you willing to financially complete the project, use any equipment properly and take full liability for the practice? (YES or NO)
17. Are you currently working toward or intend on becoming verified in the Farmstead or Cropping system of the Michigan Agriculture Environmental Assurance Program (MAEAP)? (YES or NO)
18. Explain why you are applying for this cost share practice, and the benefit or improvement that this practice will have on your farming operation.

I agree that the information given above may be released, for the purpose of review, by the Shiawassee/Genesee County Groundwater Stewardship(S/GCGS) Technician, S/GCGS Team and/or S/GCGS Executive Committee.

Recipient Signature

Date

All Shiawassee & Genesee Conservation District programs and services are offered on a nondiscriminatory basis without regard to race, color, national origin, gender, age, religion, disability/handicap, sexual orientation, marital status, or familial status.

SPRING 2008 TREE SALE FUNDRAISER ORDER FORM

SHIAWASSEE CONSERVATION DISTRICT

Office Use Only

Order Number

Date Received

Processors Initials

Name _____

Address _____

City _____ Zip _____

Phone-Day _____ Evening _____

Email _____

PLUGS	SIZE	5	10	25	50	100	QUANTITY	TOTAL	
Balsam Fir	5"	\$6.00	\$11.00	\$25.00	\$45.00	\$70.00			
Colorado Blue Spruce	7"	\$6.00	\$11.00	\$25.00	\$45.00	\$70.00			
Red Pine	4"	\$6.00	\$11.00	\$25.00	\$45.00	\$70.00			
White Cedar	7"	\$6.00	\$11.00	\$25.00	\$45.00	\$70.00			
White Pine	8"	\$6.00	\$11.00	\$25.00	\$45.00	\$70.00			
White Spruce	10"	\$6.00	\$11.00	\$25.00	\$45.00	\$70.00			
Red Cedar	12"	\$6.00	\$11.00	\$25.00	\$45.00	\$70.00			
White Birch	14"	\$10.00	\$19.00	\$45.00	\$70.00	\$125.00			
Button Bush	10"	\$10.00	\$19.00	\$45.00	\$70.00	\$125.00			
Burning Bush	10"	\$10.00	\$19.00	\$45.00	\$70.00	\$125.00			
Hoptree	7"	\$10.00	\$19.00	\$45.00	\$70.00	\$125.00			
Nannyberry	6"	\$10.00	\$19.00	\$45.00	\$70.00	\$125.00			
Ninebark	10"	\$10.00	\$19.00	\$45.00	\$70.00	\$125.00			
Red Osier Dogwood	18"	\$10.00	\$19.00	\$45.00	\$70.00	\$125.00			
Spicebush	6"	\$10.00	\$19.00	\$45.00	\$70.00	\$125.00			
Witch Hazel	6"	\$10.00	\$19.00	\$45.00	\$70.00	\$125.00			
BARE ROOT SEEDLINGS	Size	5	10	25	50	100	500	1000	
Colorado Blue Spruce	8-12"	\$3.25	\$6.50	\$14.00	\$20.00	\$35.00	\$150.00	\$250.00	
Norway Spruce	8-12"	\$3.25	\$6.50	\$14.00	\$20.00	\$35.00	\$150.00	\$250.00	
White Pine	8-12"	\$3.25	\$6.50	\$14.00	\$20.00	\$35.00	\$150.00	\$250.00	
White Spruce	8-12"	\$3.25	\$6.50	\$14.00	\$20.00	\$35.00	\$150.00	\$250.00	
Red Maple	8-14"	\$10.00	\$19.00	\$45.00	\$70.00	\$125.00	--	--	
Red Oak	8-12"	\$10.00	\$19.00	\$45.00	\$70.00	\$125.00	--	--	
Silver Maple	10-20"	\$10.00	\$19.00	\$45.00	\$70.00	\$125.00	--	--	
Sugar Maple	6-12"	\$10.00	\$19.00	\$45.00	\$70.00	\$125.00	--	--	
Lilac	10-20"	\$10.00	\$19.00	\$45.00	\$70.00	\$125.00	--	--	
Silky Dogwood	16-24"	\$10.00	\$19.00	\$45.00	\$70.00	\$125.00	--	--	
LARGE TREES	SIZE	PRICE EACH							
Autumn Blaze Maple	5-6 feet	\$20.00							
Red Bud	5-6 feet	\$16.50							
Purple Smoke Tree	2-3 feet	\$10.50							
Total Front									

Fruit and Nut Trees on the Back!





FRUIT TREES	SIZE	EACH	QUANTITY	TOTAL
Pair of Pear Trees - Harrow Delight and Harrow Sweet Pear	5-6 feet	\$30.00 / pair		
Honey Crisp Apple	5-6 feet	\$15.00		
Sun Fuji Apple	5-6 feet	\$15.00		
Jonagold Apple	5-6 feet	\$15.00		
Wolfriver Apple	5-6 feet	\$15.00		
Gala Apple	5-6 feet	\$15.00		
Cresthaven Peach	5-6 feet	\$15.00		
Hardired Nectarine	5-6 feet	\$15.00		
Montmorency Cherry	5-6 feet	\$15.00		

NUT TREES	SIZE	PER PAIR	QUANTITY	TOTAL
Carpathian Walnut	3-4 feet	\$30.00		
Butternut	3-4 feet	\$30.00		
Filbert	3-4 feet	\$30.00		

MISCELLANEOUS	EACH	QUANTITY	TOTAL
Fruit Wrap	\$2.00		
Tree Collars	\$1.75		
Solid Tree Protectors	\$1.75		
Mesh Tree Guards	2/\$1.50		
Plantskydd Granular 1lb container	\$15.00		
Plantskydd 5 quart Pre-mixed	\$55.00		

Visa MC

Card Number _____
 Expiration Date _____ Security Code _____
 Authorization Signature _____

Total Back	
Total Front	
6% Tax	
Handling Fee	\$1.00
Donation	
Total Due	
Total Enclosed	
Check No.	

Name how it appears on Credit Card _____
 Street Address _____
 City, State and Zip _____

Checks payable to: Shiawassee Conservation District
 Send order form and payment in full to: Shiawassee Conservation District
 1900 S. Morrice Road
 Owosso, MI 48867
 Phone: 989-723-8263, ext 3

**Final Date to order:
March 31, 2008**


FRUIT WRAPS



- Protection from Herbicide spraying and rabbits
- Easy to install wrap-round design
- Expands with tree growth
- 24" tall
- Designs to degrade naturally as tree grows
- Made from environmentally harmless polypropylene

PLANTSKYDD REPELLENT

Plantskydd Deer Repellent works by emitting an odor that animals associate with predator activity, repelling the animal before it nibbles on plants. Research has proven that odor-based repellents are more effective than other repellent systems where the animal needs to taste treated plants before being repelled. Once animals are attracted to an area and begin feeding, it is more difficult to discourage them from returning. Plantskydd stimulates a fear-based response which will have deer, elk, moose, opossum, and rabbits looking for somewhere else to dine.



Plantskydd
REPELLENT
 DEER • RABBITS • ELK

Orders can be picked up at the **Shiawassee County Fair Grounds in the Draft Horse Barn**, 2900 E. Hibbard Rd, Corunna

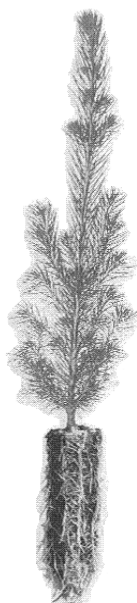
Pick up dates and times:
Thursday, April 17, 2008
 9:00 am - 7:00 pm
Friday, April 18, 2008
 9:00 am - 4:00 pm

Ordering Information/Guidelines

1. Return the completed order form with full payment to:
Shiawassee Conservation District
1900 S. Morrice Rd; Owosso, MI 48867
2. The final date to order is:
Monday, March 31, 2008.
3. All returned checks will be subject to a \$35 fee.
4. 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.
5. 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.
6. Orders not picked up will not be refunded.
7. No refunds on orders canceled after March 31, 2008.
8. The Shiawassee Conservation District reserves the right to cancel orders and refund payments due to reasons beyond their control.
9. Substitutions made by the nurseries are beyond the District's control.
12. Add orders carefully. Any errors \$10 and under will be considered a donation to the District.
13. All donations will be deposited into the Shiawassee Conservation District general fund.
14. Pictures and descriptions of all trees are available in the District office.
15. Orders can be picked up at the **Shiawassee County Fair Grounds in the Draft Horse Barn**
2900 E. Hibbard Road, Corunna
16. Pick up dates and times are all follows:
Thursday, April 17, 2008 9:00 AM to 7:00 PM
Friday, April 18, 2007 9:00 AM to 4:00 PM

Additional Items Available for Purchase

PLANTS/YYDD REPELLENT		
	1 lb Granular container <i>(covers 600 sq ft)</i>	\$15.00
	1 lb package <i>(treats 200-400 plants)</i>	\$25.00
	1 qt pre-mixed spray <i>(treats 80-100 plants)</i>	\$22.00
	5 qt pre-mixed spray <i>(treats 400-600 plants)</i>	\$55.00
MISCELLANEOUS	Fruit Wrap	\$2.00
	Solid Tree Protector	\$1.75
	Mesh Tree Guard	2/\$1.50
	Tree Collars	\$1.75
	Tree Flag	\$0.10
	Trees Planted Sign	\$1.50
	Deep Water Sign	\$1.50
	Bluebird House	
	Pine	\$10.50
	Cedar	\$15.50
	Bat Nesting House	\$18.00



We listen to our customers!

Now offering a larger variety of tree plugs

Tree Plugs are germinated from seed and grown in trays for one to two years. Because seedlings are already growing in a "plug" of dirt, tree plugs have a better survival rate, are easier to plant and have immediate growth response benefits. They generally don't experience as much stress during transplanting as bareroot trees, and can be planted at almost any time of the year.















We are excited to be offering 16 varieties of plugs this year including conifers, hardwoods and shrubs.









Pollination

The only way to insure a fruit tree crop is to have adequate pollination. To have cross pollination in an orchard, there must be more than one variety in each planting.

The best production comes from orchards with
at least three varieties.

Call the Shiawassee CD Office for more information on
cross pollination.

	Variety	Height	Light Tolerance	Soils	Notes
CONIFERS	Balsam Fir	 50-75' tall, slow growing	Highly shade tolerant	Grows on poorly drained swamps to well drained uplands	Aromatic needles
	Colorado Blue Spruce	75-100', slow growing, long lived	Shade tolerant	Best in clay and moist soils	Winter cover for wildlife
	Norway Spruce	75 - 100', moderately fast growing, long lived	Shade tolerant	Prefers moist soils	Winter cover for wildlife
	Red Cedar	 25-60', slow growing, long lived	Sun; shade intolerant	Well adapted for most soils, drought resistant	One of the best conifers for wildlife
	Red Pine	 70-80' tall, fast growing, long lived	Sun; shade intolerant	Prefers well drained sandy soils	Seeds used by songbirds and small mammals
	White Pine	 60-100', moderately fast growing, long lived	Moderately shade tolerant	Prefers sandy loam soils, avoid clay-wet soils	Great for Windbreaks; A preferred deer food
	White Spruce	 50-60', slow growing, long lived	Shade tolerant	Prefers moist, sandy loam soils	Winter cover for wildlife
DECIDUOUS	Autumn Blaze Maple	40-60'; Fast growing	Full sun	tolerates clay soil, and will withstand wet soil conditions and drought	Spectacular red fall color
	Hoptree	 5-15', medium growth rate	Both shade and sun tolerant; performs well in deep shade	Clay; loam; sand; slightly alkaline; acidic; well drained	Greenish-white flowers in June-July with an orange blossom like perfume; high drought tolerance
	RedBud	 15-25'	Full sun or partial sun	Widely adapted	Lavender pink flower along branches; yellow fall color
	Red Maple	 50-70', fast growing	Shade tolerant	Grows well on a wide range of soils	A preferred deer food
	Red Oak	 75-100', fast growing, long lived	Moderately shade tolerant	Prefers dry upland soils	Acorns eaten by turkey, ruffed grouse and blue jay. Relatively free of insect and disease pests
	Silver Maple	 60-80' tall, fast growing, moderately long lived	Sun; shade intolerant	Prefers moist or moderately drained soils	Seeds used by songbird and small animals
	Purple Smoke Tree	10-15' tall, 10-18' spread; slow growing	Full sun to partial shade	clay; loam; sand; acidic; alkaline	Large showy purple flowers give the effect of a cloud of smoke; excellent fall color ranging from yellow-orange to red-purple; high drought tolerance
	Sugar Maple	 60-100' tall, slow growing, long lived	Shade tolerant	Prefers moderately well to well drained soils, poor drought tolerance	Extremely showy fall colors, principal source of maple syrup, good wildlife value
	White Birch	 45-50'	Full sun; shade intolerant	Well adapted to many soils, best in well drained acid, sandy or silty loam	White bark; yellow fall leaf color
SHRUBS	Button Bush	 8' tall, 10' wide	Shade intolerant	Tolerant of high water and slow moving stagnant water	Flowers very attractive to butterflies
	Burning Bush	18' tall, 18' spread	Prefers sun; shade tolerant with reduced density and fall color	Prefers moist soils	Outstanding red fall color; red-orange fruit
	Highbush Cranberry	 6-15' tall	Moderately shade tolerant	Well drained moist soils	Clusters of white flowers and scarlet fruit, fruit eaten by birds

	Variety	Height	Light Tolerance	Soils	Notes
SHRUBS	Lilac	20' tall, 15' wide	Needs full sun	Grows well in upland soils	Cover for many birds and mammals
	Nannyberry	 20' tall, 10' wide	Full sun to partial shade	Dry, well drained or moist sites	Fruit eaten by ruffed grouse, ring-necked pheasant, rabbit and squirrel
	Ninebark	 8' tall, 8' wide	Sun to partial shade, intolerant of full shade	Prefers well drained to moist soils	Good cover for wildlife, showy pink flowers
	Red Osier Dogwood	 7-10' tall, 6-8' wide	Full sun	Prefers sandy to clay soils; does well on moderately wet soils	Fruit is very valuable to wildlife- ripens late summer and remains though the fall and into winter months
	Silky Dogwood	 6-10' tall	Sun; shade intolerant	Prefers moist, poorly drained soils	Yellowish white flowers in May- June
	Spicebush	 12' tall, 12' wide, moderately slow growing	Shade tolerant	Best growth on muck soil, but does well in moist or dry conditions	Early yellow flowers, yellow foliage in the fall and bright red fruits remain after the leaves fall
	Witch Hazel	 20-30'; slow growth rate	Best in sun or partial shade, tolerates shade	Best in light, moist soil; clay, loam, sand; slightly alkaline; acidic; well	Fragrant yellow flowers in late fall to early winter; fall color is yellow and often is at peak when
NUT TREES	Butternut (White Walnut)	 30-60' tall, fast growing, moderately long lived	Shade intolerant	Characteristic of moist, fertile soils, also on dry rocky soils	Fruit: Nut, October; Squirrels distribute nuts
	Carpathian Walnut (English Walnut)	40-60' tall	Prefers full sun, can tolerate some shade	Well drained loam soils, avoid deep sands, gravels and wet soils	Not self pollinators - need at least 2 trees within 200' of each other
	Filbert (American Hazelnut)	 7-10' tall	Shade intolerant	Grows in moist or dry situations	Fruit; Nut, August-September, large nuts 2-4 in a cluster
	Variety	Fruit Description	Picking Dates	Pollination	
FRUIT TREES	Harrow Delight Pear	Skin is yellow with red blush; fruit size is comparable to Bartlett; very sweet and juicy with excellent taste and keeps well in in cold storage for 10 weeks	August 10 - August 20	Cross pollination	
	Harrow Sweet Pear	Skin is yellow with red blush; fruit size is comparable to Bartlett; very sweet and juicy with excellent taste and keeps well in in cold storage for 10 weeks	September 20 - October 1	Cross pollination	
	Honey Crisp Apple	Large; skin is 50-90% red over yellow background; exceptionally crisp and juicy	September 15 - September 25	Cross pollination	
	Fuji Apple	Pink red tone; hard texture and syrupy sweetness	October 1 - October 15	Cross pollination	
	Jonagold Apple	80-85% dark red color at maturity, fruit is good quality and stores well	October 1 - October 15	Cross pollination	
	Wolfriver Apple	Large to very large, skin is pale yellow to green with carmine red blushes and stripes; primarily a cooking apple	September 15 - October 1	Cross pollination	
	Gala Apple	Fruit has reddish-orange background and prominent red stripes that cover 90-100% of the surface; flesh is crisp, firm and juicy with a sweet flavor	September 1 - September 10	Cross pollination	
	Cresthaven Peach	Skin is tough but smooth; flesh is clear, firm and resistant to browning	September 1 - September 10	Self fruitful	
	Hardired Nectarine	Smooth skin that is 90% red; yellow freestone flesh that has good texture and flavor; hardy	August 10 - August 20	Self fruitful	
	Montmorency Cherry	The best red tart cherry for home and commercial processing	July 15 - July 25	Self fruitful	

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

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