



# MANISTEE CONSERVATION DISTRICT

2009 Fall Nature's Way Tree/Product Catalog and Newsletter  
8840 Chippewa Highway (US31) Bear Lake, Michigan 49614-9400

Earthly Matters  
Phone (231) 889-4761 Fax (231) 889-4020

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- Jeanne Crampton, Secretary
- Carol Pasco, Treasurer
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- Jill Jones, Administrative Assistant
- Murray Stall, Groundwater Technician
- Tom Williams, Forester
- Jack Lake, Sand Dunes Consortium Specialist
- Ray Johnson, Volunteer
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## Natural Resources Conservationist Services

Scott Hughey, NRCS District Conservationist

## Index

Groundwater Stewardship Programs .....	2
Directors Sought .....	2
Ten Great Habitats continued.....	3
Household Hazardous Waste Pickup.....	3
Plant Descriptions.....	4
Tree Order Form .....	5 & 6
The Trip Home .....	7
Tree Planting Guide.....	7
Meet Scott Hughey .....	7
Thank You .....	7

All Conservation District meetings are open to the public. Meetings are scheduled at 1 p.m. on the third Monday of each month at the Manistee Conservation District Office the schedule is posted on the District's website at [www.manisteedc.org](http://www.manisteedc.org)

## Ten Great Habitats for Fish and Wildlife

by Scott Hughey, District Conservationist, Natural

To improve your land for fish and wildlife, think first of the food, water, cover and space needs of the wildlife you want to attract throughout the year. Then begin to establish plants, water sources, and other practices that fit those needs. The USDA Natural Resources Conservation Service offers technical help for landowners in planning for wildlife habitat on privately owned lands, and the U.S. Department of Agriculture offers financial help for most conservation practices that also enhance fish and wildlife habitat. Here are ten of the top habitats for wildlife:

### 1. Restored wetland.

If you had to choose a single habitat or practice, this is probably the one used by the most species.

### 2. Windbreak/shelterbelt.

Rows of trees and shrubs offer prime shelter and food in the winter.

### 3. Riparian buffer.

Habitat value is enhanced by being next to water, and vegetation along streams improves water quality for fish and wildlife.

### 4. Diverse grass planting.

Blocks of native grasses and forbs intermingled with forage land and crop fields can offer grassland birds nesting and cold weather cover, and protection from predators.

### 5. Managed timber.

Manage for lower densities, thin or burn, leave snags and den trees, open spaces or borders of grasses, and legumes. Leave trees along streams for fish habitat.

### 6. Habitat connection corridors.

Large blocks of grasslands, wetlands or woodlands are most useful when connected by corridors of grasses and trees that protect wildlife on the move.

### 7. Managed grazing land.

Planned rotational grazing can protect streamsides for fish, create diverse habitat for wildlife, open up dense vegetation canopies, and provide nesting habitat and cover.

*continued on page 3*

## Tree orders are due by September 18, 2009

# West Central Groundwater Stewardship Programs

by Murray Stall, Groundwater Technician

The Michigan Groundwater Stewardship Program (MGSP) is designed to help you the producer reduce pesticide and fertilizer risks to groundwater at your farm and farmstead. The MGSP brings together resources of State, Federal, and Local groups in an effort to protect the States groundwater and surface water resources. The program is funded by a user fee assessed on the pesticides and nitrogen containing fertilizers.



## WHY PROTECT GROUNDWATER

Half of Michigan residents rely on groundwater for their drinking water source. Groundwater recharges our surface waters which are also used for drinking water. Preventing the contamination of groundwater is necessary to protect the quality of Michigan's surface and groundwater resources.

## MGSP and MAEAP

Agricultural producers participating with MGSP can become environmentally assured through the Michigan Agricultural Environmental Assurance Program (MAEAP) MAEAP verification assures that the producer is in conformance with all Federal and State environmental laws and guidelines.

## ASSESS YOUR ENVIRONMENTAL RISK!

The MGSP uses several assessment tools identify potential risk to groundwater. These assessments are conducted by a trained Groundwater Technician and are strictly confidential. The assessment never leaves the farmstead.

The assessment tools used are the **FARM\*A\*SYST, CROP\*A\*SYST, LIVESTOCK\*A\*SYST, NURSERY\*A\*SYST, AND CHRISTMAS TREE\*A\*SYST**. These tools are designed to include all types of farming Cropping, and livestock systems. Any type of agricultural production is eligible to participate in the MGSP and MAEAP, regardless of size or type.

For further information about either of these programs contact the Manistee Conservation District - phone 231-889-4761 or contact Groundwater Technician Murray Stall - phone 231-342-5162.

## Manistee Conservation District Director Candidates Sought

Directors for a Conservation District (CD) are locally elected officials that are responsible for the operation of the CD. The Board of Directors consists of five-members, who develop the policies to be carried out by the CD's employee (s) and the resource personnel available to the CD. To be qualified to run for this vacancy you must be a resident of the county in which the CD operates in and you must be of legal age. It is very desirable to have an interest in and be committed to resource conservation, within the county, state, and country. A candidate must present a petition, signed by at least 5 citizens of the District, to the CD office at least 60 days prior to the election (by August 28, 2009). The election for the Manistee Conservation District Board of Directors will be held at the CD's Annual Meeting on October 27, 2009 with the time and location being announced. Voting will take place at the Annual Meeting on October 27, 2009 for the following Director's seat; one (1) seat for a 4 year term. Absentee ballots will be available (after September 11, 2009) up to 45 days prior to the election. The absentee ballots are available at the District Office located at 8840 Chippewa Highway, Bear Lake, Michigan.

Directors meet once a month for regular board meetings and attend several other meetings throughout the year. If you are interested in serving on our board or know someone who may be interested, please contact our office at 231-889-4761.



**8. Farm pond.**

Offers water for wildlife and habitat for fish, waterfowl, frogs and other species. Plant the surrounding area to trees, shrubs and grasses.

**9. Field Borders.**

Grass or shrub cover, a strip planted between a crop field and forest, meets several wildlife needs at once.

**10. Clean water.**

Conservation practices that protect upland soils and streamsides also produce cleaner water for wildlife, fish, livestock and people.

For more information, stop at our office at 8840 Chippewa Hwy (US 31) in Bear Lake, Michigan or visit the NRCS home web site at [www.mi.nrcs.usda.gov](http://www.mi.nrcs.usda.gov).

*More than a third of all native bird species use wetlands.*

**Wildlife Ways**

**Did you know....**

The 35 million acres of habitat created on private lands by the USDA Conservation Reserve Program is as large as the entire National Wildlife Refuge system and state owned wildlife areas combined, excluding Alaska.



VISIT **MANISTEE CONSERVATION DISTRICT'S**  
WEBSITE AT **[www.manisteed.org](http://www.manisteed.org)**



*Household Hazardous Waste/  
Clean Sweep Pickup Day  
in Manistee County*

will be held only for limited hours  
9 am until 2 pm on  
Saturday, August 15th

Pickup site is the Manistee County  
Road Commission Garage (9 Mile Road & US 31)

Direct questions to the Manistee Conservation District 231-889-4761  
and/or to pre-register for disposal of 200 pounds or more of waste



## Plant Descriptions

### Red Pine

*Pinus resinosa*

*Full sun, range of soils*

Native to Manistee County. Valuable for timber, reforestation, windbreaks, and wildlife habitat. Plantations are first thinned at 30 years. Does well on dry sandy sites.

### Jack Pine

*Pinus banksiana*

*Full to partial sun, range of soils*

Native to Manistee County. Fast growing. The best for infertile dry, sandy sites. Jack pine will succeed even where red pine fails!!

### White Pine

*Pinus strobus*

*Full to partial sun, range of soils*

Native to Manistee County. Michigan State Tree. Suitable for under plantings in moderate shade. Fast growing, used for timber, Christmas trees, and wildlife habitat. Do not plant in pure plantations because of insect infestation.

### Norway Spruce

*Picea abies*

*Full to partial sun, range of soils*

Fast growing, graceful pendulous branches, large "cuckoo clock cones". Used ornamentally, and for windbreaks or wildlife habitat. Does well on a variety of sites.

### Blue Spruce

*Picea pungens*

*Full to Partial sun, range of soils*

Drought resistant once established. Beautiful ornamental and Christmas tree. Will turn bluish color after 4-5 years. Excellent for windbreaks, soil stabilization and wildlife cover.

### White Spruce

*Picea glauca*

*Full to partial sun, range of soils, and will tolerate moderately wet soils*

Native to Manistee County. Moderate growth, excellent for wildlife cover, windbreaks and visual screening. Tree has limited timber value due to excessive branching.

### Northern White Cedar (American Arborvitae)

*Thuja occidentalis*

*Full to partial sun, range of soils*

Native to Manistee County. A beautiful, straight, dense, dark-green symmetrical tree. Prefers wet areas, but will also grow on upland areas. A small tree, good for windbreaks and privacy screenings. Must be protected from deer.

### Fraser Fir

*Abies fraseri*

*Full to partial sun, range of soils*

Needles dark green on top and light green underneath. Delightful fragrance and attractive purplish cones. Good ornamental and Christmas tree.

### Concolor Fir

*Abies concolor*

*Grows well in sunny, well drained areas. Tolerant to very tolerant to shade.*

This is an early budding fir with soft powder-blue needles (2"+) with a slow to moderate growth rate and a favorite Christmas Tree.

Height at maturity is 59-75'.

### Douglas Fir

*Pseudotsuga menziesii*

*Full to partial sun, range of soils*

Planted widely for Christmas trees because of its naturally full form and needle retention quality. Moderately fast-growing, long-lived tree that reaches 60-80'. Other uses include ornamental, hedges, and windbreaks. This is the Shuswap Lake variety.

### American Beach Grass

*Ammophila breviflora*

*Full sun, sandy soils*

Native to Manistee County. A very durable cover for dunes and eroding sandy spots. Spreading root system. Can be planted in harshest dune conditions. Will provide cover and control sand movement within a year. Native to Great Lakes. Space 18" x 18" for severely eroded areas or 24" x 24" for other areas.



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# Manistee Conservation District 2009 Nature's Way Fall Order Form

**Orders must be received by Friday, September 18, 2009 at 3 p.m.** Orders must be **paid in full when ordering.** Orders are filled on a first come, first served basis when the occasional shortage occurs with a species. **Please Order Early.** Orders may be picked-up from **8a.m. until 4 p.m. on October 2nd** at the Manistee Conservation District office, located at 8840 Chippewa Highway (US 31), Bear Lake, Michigan. This will be the only day for the tree distribution. **Note:** that PA 89 of 1939 prohibits Conservation District customers from reselling rooted planting stock. The District does not guarantee plant survival and limits its liability to the distribution of the plants.

For plant descriptions and information, on line at [www.manisteed.org](http://www.manisteed.org) or please call (231) 889-4761.

Name: \_\_\_\_\_ Date: \_\_\_\_\_ First page purchases: \$ \_\_\_\_\_  
 Address (mailing): \_\_\_\_\_ Daytime Phone: \_\_\_\_\_ Second page purchases: \$ \_\_\_\_\_  
 City/State/Zip: \_\_\_\_\_ Total taxable purchases: \$ \_\_\_\_\_  
 6% Sales Tax: \$ \_\_\_\_\_

### Now accepting Visa or Master Cards

Type of card Visa \_\_\_\_\_ Master Card \_\_\_\_\_  
 Credit Card # \_\_\_\_\_ Expiration Date \_\_\_\_ - \_\_\_\_  
 Dried fruit purchases: \$ \_\_\_\_\_  
 Conservation District Donation: \$ \_\_\_\_\_  
**Total Amount Paid: \$ \_\_\_\_\_**

Signature of card holder \_\_\_\_\_  
 Or Make checks payable and mail to:

Note: **Orders must be paid in full to be processed**  
 and there is a \$16 fee assessed on any returned check

**Manistee Conservation District**  
**8840 Chippewa Highway (US 31)**  
**Bear Lake, Michigan 49614-9400**

Office Use Only				
Order # _____	Date Paid _____	Check # _____	Cash _____	Credit MC V Notes

All District programs and services are offered on a nondiscriminatory basis without regard to race, color, national origin, religion, sex, age, marital status, or handicap.

### Conifer Seedlings

### Costs per

Quantity	Specie	Age	Size	50	100	500	1000	Total
_____	Red Pine	2-0	4-8"	\$23	\$38	\$94	\$175	\$ _____
_____	Jack Pine	2-0	6-12"	\$19	\$32	\$80	\$150	\$ _____
_____	White Pine	2-0	4-8"	\$23	\$38	\$94	\$175	\$ _____
_____	Norway Spruce	2-0	5-10"	\$23	\$38	\$94	\$175	\$ _____
_____	Blue Spruce	2-0	5-10"	\$23	\$38	\$94	\$175	\$ _____
_____	White Spruce	2-0	5-10"	\$23	\$38	\$94	\$175	\$ _____

### Transplants

### Cost per

Quantity	Specie	Age	Size	Each	10	25	Total
_____	Northern White Cedar	2-1	5-10"	\$2	\$15	\$27	\$ _____
_____	Blue Spruce	2-2	10-15"	\$3	\$20	\$37	\$ _____
_____	Fraser Fir	3-2	10-18"	\$3	\$20	\$37	\$ _____
_____	Concolor Fir	Plug+1	6-12"	\$2.50	\$17	\$31	\$ _____
_____	Douglas Fir	Plug+1	6-12"	\$2.50	\$17	\$31	\$ _____



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**Wildflower Mixes**

weight

**Cost per Packet**

All limited quantities

_____	Wildflower Seed Mix Package	1 ounce	\$4.00	\$ _____
_____	Wildflower Seed Mix Package	4 ounces	\$16.00	\$ _____
_____	Wildflower Seed Mix Package	8 ounces	\$30.00	\$ _____

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**Ground Cover**

Age

Size

**Cost per**

_____	American Beach Grass	1-0	18"+	500 / \$53	\$ _____
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**Planting Products****Cost**

_____	Planting Bar (all steel)	\$25.00	\$ _____
_____	Treessential Tree Shelters	\$20.00 for 5 shelters	\$ _____
_____	Tree Planting Signs	\$1.75 or 6 for \$9.50	\$ _____

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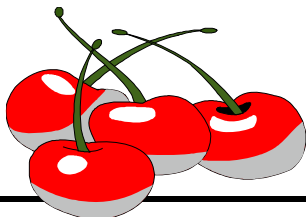
**Animal Repellant****Cost**

_____	Plantskydd—powder 2.2 Lbs. (Coverage 400 to 800 plants)	\$39.95	\$ _____
_____	Plantskydd—powder 1Lb. (Coverage 200 to 400 plants)	\$22.95	\$ _____
_____	Plantskydd—liquid 1.06 Qt. (Coverage 100 plants)	\$22.95	\$ _____

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**Other Products *nontaxable*****Cost per**

Item		1/2 lb	1 lb	4 lbs		
_____	Dried Cherries	<i>Not Taxable</i>	\$3.00	\$5.50	\$21.00	\$ _____
_____	Dark Chocolate Covered Cherries	<i>Not Taxable</i>	\$3.00	\$5.50	\$21.00	\$ _____
_____	Chocolate Covered Cherries	<i>Not Taxable</i>	\$3.00	\$5.50	\$21.00	\$ _____
_____	Dried Mixed Fruit	<i>Not Taxable</i>	N/A	\$7.50	N/A	\$ _____



These delicious dried fruit snacks can be found year round at the district office.



## The Trip Home

Most (if not all) of the seedlings you have purchased are bare rooted. The bare roots are surrounded by moist moss or shredded paper and then wrapped in nursery paper. This will keep the roots moist for your trip home, but the plants should be planted within 48 hours. You can store your seedlings in a cool, shaded location, such as a cool basement or a garage. The roots must be kept moist not wet.

- Do not leave plants in the hot trunk.
- Do not let the plants freeze.
- Do not stack the bundles or leave them open.
- Do not store plants in buckets of water.

Oops! Too busy to plant your seedlings right now. Heel the seedlings into a trench, cover with soil, and then add water (keep moist).

## Tree Planting Spacing Guide

Planting Purpose	Conifers		Deciduous	
	Spacing	Trees/Acre	Spacing	Trees/Acre
<b>Reforestation:</b> Good Management	6' x 8'	900	12' x 12'	300
No Management Plan (Trees growing to maturity)	7' x 9'	700	12' x 12'	300
<b>Erosion Control</b>	5' x 5' or 7' x 7'	1742 or 889		
<b>Windbreaks</b> 3 rows recommended 2 rows conifers / 1 row shrubs	10' x 8' between trees 10' x 12' between shrubs		12' x 10' between trees 12' x 15' between shrubs	

### Meet Scott Hughey our District Conservationist in Manistee County.



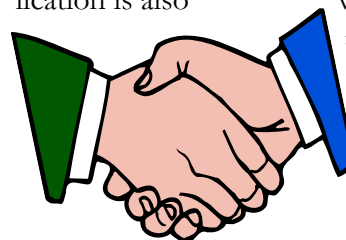
Scott Hughey started as the new District Conservationist in Bear Lake on June 22<sup>nd</sup>. Scott has worked for NRCS since 2001 starting as a technician and working in the Allegan, Shelby, and Stephenson field office as a Soil Conservationist. Scott has also spent the last 4 years as a District Conservationist in the Sault Ste. Marie field office.

Scott's agriculture background started when he was raised on a small beef farm in Northern Michigan. Scott holds a Bachelors Degree of Science in Geology from Western Michigan University, with graduate work in biology from Michigan State University and Iowa State University.

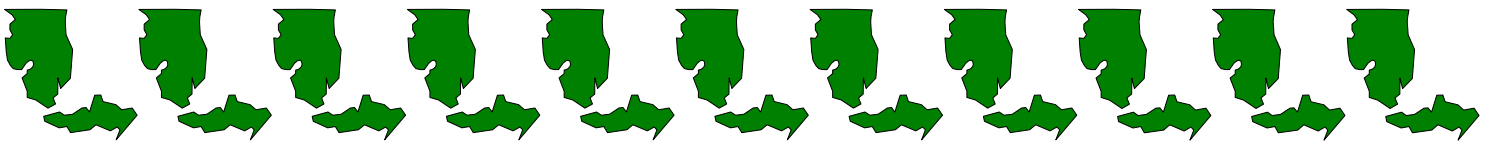
Scott enjoys most outdoor activities, including backpacking, canoeing, and hunting. Scott and his wife Melissa, have been married for 8 years and have two sons, ages 4 and 2.

### THANK YOU for Your Support

Thank you for ordering from this catalog. The sale of seedlings and other conservation products is one of the many fund-raisers for the Manistee Conservation District. Proceeds help the District promote conservation efforts in Manistee County. We appreciate your support. The support offered by the local business through their advertising in this publication is also



very much appreciated. Help the Manistee Conservation District by supporting these local businesses.




**P**romote good stewardship, protect the natural resources and provide the education necessary to achieve these goals in partnership with our community

Manistee Conservation District will, strive to:

To: Addressee or current occupant

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Appointments Preferred

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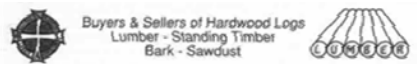


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All District programs and services are offered on a nondiscriminatory basis without regard to race, color, national origin, religion, sex, age, marital status, or handicap.