



MANISTEE CONSERVATION DISTRICT

2008 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

Directors

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- James Sluyter, Vice Chair
- Jeanne Crampton, Secretary
- Carol Pasco, Treasurer
- John Urka, Director

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- Jay Raupp, Administrator
- Jill Jones, Administrative Assistant
- Murray Stall, Groundwater Technician
- Tom Williams, Forester
- Jack Lake, Sand Dunes Consortium Specialist
- Debra Oosterhart, AmeriCorps Volunteer
- Ray Johnson, Volunteer
- Lyle Linsemier, Volunteer

Natural Resources Conservationist Services

Ben Loosemore, USDA District Conservationist

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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

2008 Farm Bill Conservation Title:

Investing in Conservation Programs That Impact the Preservation of Manistee County's Natural Resources Increases total spending on conservation programs by \$7.9 billion, all figures are for national allocations.

Extends the Popular Conservation Reserve Program (CRP)

- Authorizes 32 million acres to be enrolled in the program from 2010-2012
- Includes a new provision to allow retired landowners participating in CRP to modify their contracts if the land is being transferred to a beginning, limited resource, or socially disadvantaged farmer or rancher. This would allow eligible producers to return some of this land to grazing or crop production

Farm Bill Conservation Program Basics

- ◇ CRP removes marginal croplands from production and encourages environmental enhancement on those lands.
- ◇ WRP is a voluntary, non-regulatory, incentive-based program that helps private landowners, farmers and ranchers protect and restore wetlands on their property.

Expands the Wetlands Reserve Program (WRP)

- Provides funding to reestablish a baseline of \$1.3 billion and extends the program through 2012
- Increases the maximum enrollment to 3,041,200 acres
- Creates a Wetlands Reserve Enhancement Program and updates the appraisal process

- ◇ EQIP offers financial and technical help to assist farmers and ranchers install or implement conservation practices on eligible agricultural land to protect water, air and soil quality as well as wildlife habitat.

Strengthens the Environmental Quality Incentives Program (EQIP)

- Increases funding for EQIP by \$3.4 billion.
- Makes conservation practices related to organic certification and transition eligible for payments
- Improves the evaluation process for applications
- Establishes the Agricultural Water Enhancement Program (AWEP) to help producers achieve water quality goals and address water quantity concerns

2008 Farm Bill cont'd on page 3

Tree orders are due by September 19, 2008

West Central Groundwater Stewardship Programs

Ag-Expo Day a Success

by Debra Oosterhart, AmeriCorp Volunteer

Ag-Expo is an opportunity for employees of the Conservation Districts of Michigan, farmers, and anyone interested to gather and explore new options for equipment, education options, water screening, time to visit, etc. The water screening is a chance for homeowners to obtain a free nitrate/trizine test. Ag-Expo Water testing was a big hit in Manistee County. Collection day was July 15, 2008 where we had 119 samples delivered. The Little River Band of Ottawa Indians also collected 74 samples for a total of 193 water samples turned in, in Manistee County.

AmeriCorps volunteer Debra Oosterhart says there was a goal for the year of 300 samples and the results were outstanding. The goal was set for 100 for each county in her area. Manistee had 193, Mason-Lake had 171, and Oceana had 102, this brings the grand total collected to 466. Oosterhart reports that her goal was one of the highest set in the state among the AmeriCorps members and she exceeded it thanks to all of those that participated.

Oosterhart also says that the point of sale opportunities are still available to help educate business owners and employees about pesticides, fertilizers what customers need for their gardens/plants and soil type. If you know of someone or a business that would be interested in this free educational option, call the Conservation District for details.



Water samples collected at the Ag-Expo day being kept cold while waiting to be transported to East Lansing.

CROP * A* SYST FOR CHRISTMAS TREE GROWERS WILL BE AVAILABLE IN MANISTEE COUNTY SOON

by Murray Stall, Groundwater Technician

The crop-a-syst assessment that is presently available through the West Central Groundwater Stewardship Program is being adapted for use by Christmas tree growers. At the present time there is a crop-a-syst for field and vegetable crops, fruit crops, and for nursery growers. Crop-a-syst is a tool used to identify the risk posed to groundwater by agricultural producers through their use of pesticides, fertilizers and petroleum products. The assessment is conducted by a trained groundwater technician and the producer. Results of the crop-a-syst assessment program are confidential and do not leave the farm. After the confidential assessment is completed the technician identifies the risk posed to groundwater at the site and provides the landowner with alternative methods to reduce those risks. Also provided is information about available cost-share programs and other technical assistance that may be available to reduce the identified risk.

On August 20, 2008 the Michigan Groundwater Technicians will be trained on adapting the current Nursery*A*Syst assessment to include Christmas tree growers. The on-site training will be held at the Lutz Farms on Chief Rd. in Kaleva, MI. During this training session technicians will address issues such as soil testing, fertilizer rates, ph requirements, nutrient management plans, etc. as they are related to growing Christmas trees. Training will also be provided regarding proper fertilizer and pesticide storage, mixing and loading of chemicals and proper isolation distances from wells for these facilities. The Christmas tree growers in Manistee County may contact the Manistee Conservation District in Bear Lake or Murray Stall, groundwater technician to obtain further information about this program. An assessment date can be scheduled after September 01, 2008 by contacting either of the above. Phone 231-889-4761 or 231-342-5162.



Manistee Conservation District Director Candidates Sought

Directors for a Conservation Districts (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 29, 2008). The election for the Manistee Conservation District Board of Directors will be held at the CD's Annual Meeting on October 28, 2008 with the time and location will be announced. Voting will take place at the Annual Meeting on October 28, 2008 for the following Director's seats; one (1) seat for the remaining 3 years of a 4 year term and two (2) seats for 4 year term. Absentee ballots will be available (after September 13, 2008) 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.



Extends the Conservation Security Program (CSP)

- Provides \$1.1 billion in new funding to enroll nearly 13 million acres per year
- Expands eligible lands to include private forests
- Restructures the program to provide conservation stewardship payments that encourage producers to implement additional conservation practices
- Emphasizes attainment of new conservation benefits

Farm Bill Conservation Program Basics cont'd:

- ◇ CSP pays farmers who are implementing conservation practices on their working lands. It provides annual payments and increasing financial incentives to encourage the continuation of farming practices that benefit soil, water, and air resources.
- ◇ GRP helps landowners restore and protect grassland, rangeland, pastureland, shrubland and certain other lands and provides assistance for rehabilitation.
- ◇ WHIP helps landowners develop and improve wildlife habitat primarily on private land.

Continues and Expands the Grassland Reserve Program

- Adds an additional 1.22 million acres to the Grassland Reserve Program (GRP), which helps landowners protect, restore, and enhance grasslands on their property
- Allows for short term contracts and easements, and for cooperative agreements

Establishes payment limitations for conservation programs

- Limits EQIP payments to \$300,000 over 6 years, but allows the Secretary to grant waivers to \$450,000 in particular cases
- Clarifies the pay-out rate for WRP contracts
 - * Easements of less than \$500,000 paid over 1 to 30 years
 - * Easements of greater than \$500,000 paid over 5 to 30 years
 - * Allows Secretary to grant a waiver and provide lump sum payment on easements over \$500,000

Reauthorizes the Wildlife Habitat Incentives Program (WHIP)

- Increases cost-share assistance on long-term agreements and provides technical assistance and cost-share assistance to establish and improve wildlife habitat



Updated 05/12/2008
Prepared by the House Committee on Agriculture



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

will be held only for limited hours
9 am until 2 pm on
Saturday, September 13th

**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 2008 Nature's Way Fall Order Form

Orders must be received by Friday, September 19, 2008 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 3rd** 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 or please call (231) 889-4761.

Name: _____ Date: _____ First page purchases: \$ _____
 Address (mailing): _____ Daytime Phone: _____ Second page purchases: \$ _____
 City/State/Zip: _____ Total taxable purchases: \$ _____

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

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

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

Quantity	Specie	Age	Size	Costs per				Total
				50	100	500	1000	
_____	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

Quantity	Specie	Age	Size	Cost per			Total
				Each	10	25	
_____	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	2-1	6-12"	\$2.50	\$17	\$31	\$ _____

Wildflower Mixes

weight

Cost per Packet

All limited quantities

_____	Wildflower Seed Mix Package	1 ounce	\$3.00	\$ _____
_____	Wildflower Seed Mix Package	4 ounces	\$9.00	\$ _____
_____	Wildflower Seed Mix Package	8 ounces	\$18.00	\$ _____

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	\$1.25 or 6 for \$7.00	\$ _____

Animal Repellant

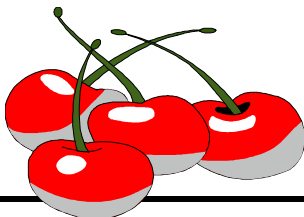
Cost

_____	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	\$ _____
_____	Plantskydd—Granular 1 Lb. (Coverage approximately 600 sq. feet)	\$14.95	\$ _____

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	\$ _____
_____	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.



Frequently Asked Forestry Questions

by Tom Williams, District Forester

1. Is Michigan running out of trees or forest?

No. Forest area is increasing slightly. Forest volume is growing substantially. Michigan has one of the most lightly harvested forests in the United States. Nevertheless, there may be areas within the state that are experiencing forest loss. This is typically due to urban sprawl and urban splatter (construction of second homes, resorts, golf courses, etc.).

2. Do we need trees for oxygen?

No. Compared to the oxygen reserves in the atmosphere and green plant oxygen generators, trees are not major producers. Ocean plants produce far more oxygen than trees, which makes some sense considering the ocean covers about three-quarters of the Earth's surface. Remember that the purpose of photosynthesis is not to produce oxygen, but to produce sugars.

3. How long do trees live?

Most trees don't survive their first year. However, trees can live as long as 4,000 years, but this is very rare. In Michigan, tree species longevity ranges from about 80 years to about 1,200 years (potentially). Northern white cedar is the longest living tree species in Michigan.

4. How much wood does it take to build a house?

Obviously, the answer depends on the house. However, a 2000 square foot house will use about 13,000 board feet of framing lumber and about 6200 square feet of sheathing (usually oriented strand board - OSB).

5. Who is the largest forest owner in Michigan.

The State of Michigan is the largest landowner, holding about 4.1 million acres of state forest, state parks, and other lands. Plum Creek owns approximately 630,000 acres of forest land, making them the largest private forest owner in Michigan.

6. How many species of wildlife live in Michigan?

The answer depends upon a lot of things, such as what you consider as wildlife and how you define "live". However, there are about 575 species of vertebrates that have been recorded in Michigan (many are migrants). Nobody knows how many species of animals there are if you count all the other forms of wildlife.

7. How many species of trees grow in Michigan?

Another difficult question to answer. When does a shrub become a tree? Do you count non-native species that people plant in their yards? Well, if you just count those tree species in the statewide forest inventories conducted by the U.S. Forest Service, then there are about 85 species, more or less.

8. What is the biggest tree in Michigan?

"Big" can mean height, diameter, or crown spread. The biggest tree using a formula that incorporates all three factors is a black willow (*Salix nigra*) near Traverse City. The tallest tree is a 179 foot red maple (*Acer rubrum* in St. Clair County), as the 201 foot white pine (*Pinus strobus*) is reported to have died. A white oak (*Quercus alba*) near Allegan has the widest reported crown spread at 161 feet. The tree with the largest diameter is the same black willow by Traverse City.

9. What is the most common tree in Michigan?

Sugar maple (*Acer saccharum*). "Common" can be defined in terms of either numerical count or by wood volume. In either case, sugar maple is the king, by an increasing margin.

10. What is Michigan's state tree?

Eastern white pine (*Pinus strobus*) is the state tree. However, the apple blossom (*Malus spp.*) is the state flower.

11. What makes leaves drop in the fall?

Wind and gravity! Actually, this is true. However, a layer of weak cells forms in the leaf stem due to changes in photoperiod. The leaf will eventually break from the twig at this "abscission layer".

12. How many rings does a tree grow each year?

Typically we might think the answer is "one" but actually the answer is "two". Different rings are grown in the spring and summer. If you think about it, if there were only one ring, how could we tell where one year's growth ended and the next began? This is the case in some tropical trees . . . and they cannot be aged by counting rings.

13. What is wood made of?

Cellulose makes up most of the wood volume. Cellulose is a complex sugar, so you could say the wood is mostly sugar!

14. How many trees are planted in Michigan each year?

About 30 million, three trees for every person in Michigan. However, many millions more are naturally regenerated through forest management.

15. Do bears hibernate?

That depends upon how you define "hibernation", and some experts disagree with each other. In a strict sense, bears are not true hibernators.

16. Is fire always bad?

No. Uncontrolled wildfire generally results in mostly negative results, as well as some positive ones. Prescribed fire provides mostly positive results. Fire is a natural part of many of our forest ecosystems. If we cannot allow fire in certain forest types, then we must find alternative management methods (usually controversial also) to imitate the effects of fire.

17. Has pollution killed a lot of trees?

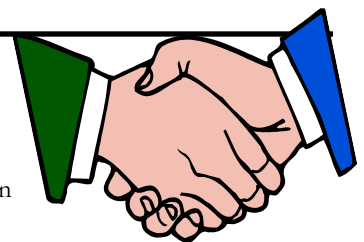
No. This is often cited as a forest health issue by elementary school students. While air pollutants do have negative effects on trees, sometimes killing them, death by pollution is a small factor in Michigan. This is more common in urban areas and along busy highways. Automobile exhaust and road salts are the main pollutants that impact trees. Vandalism, improper planting, lawn-mowing, and soil deficiencies contribute more to urban tree mortality than pollution.

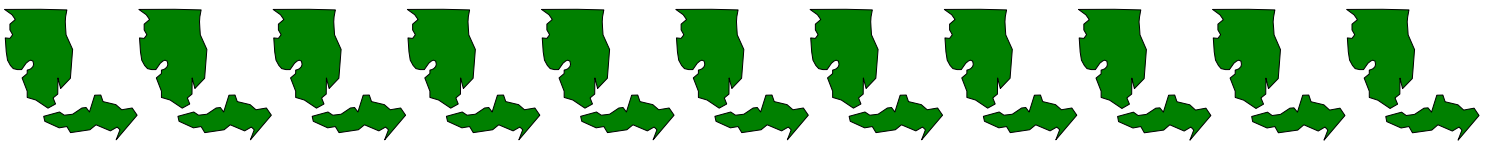
18. How much of Michigan is covered with forest?

A little over half (53%). However, most of that forest is up north. The Upper Peninsula is about 83% forested, heavier in the west than in the east. The southern Lower Peninsula is covered by less than 20% forest and is dominated by farms and cities.

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.






Promote good stewardship, 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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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.