

Michigan Turfgrass Environmental Stewardship Program Overview





Michigan Turfgrass Environmental Stewardship Program

Founding Partners

Michigan State University

Michigan Turfgrass Foundation

Golf Association of Michigan

Michigan Golf Course Owners Association

MI Dept. of Agriculture & Environmental Quality

MI Golf Course Superintendents Associations

Michigan Turfgrass Environmental Stewardship Program



- Advance environmental stewardship of the golf industry
- Advance regulatory compliance
- Foster productive communication between industry, state agencies, MSU and environmental advocacy groups
- Enhance wildlife habitat, indigenous vegetation and protect water resources
- Recognize, promote and award stewardship achievement

Program Modules

1. Site Evaluation
2. Wellhead Protection
3. Fuel Storage
4. Pesticide Handling & Application
5. Pesticide & Fertilizer Storage
6. Pesticide Mixing & Loading Pads
7. Equipment Washing
8. Emergency Response Plans
9. Buffer Zones

Michigan Turfgrass Environmental Stewardship Program

Step 1 - Attend a MTESP Seminar

Step 2 - Conduct a Self-Assessment & Complete the Program Modules

Step 3 - Request a Site Visit - Establish 3 Year Action Plan

Step 4 - Complete Action Plan & Contact MTESP Office

Michigan Turfgrass Environmental Stewardship Program Certification

1. In compliance
2. No direct discharge
3. Wellhead protection

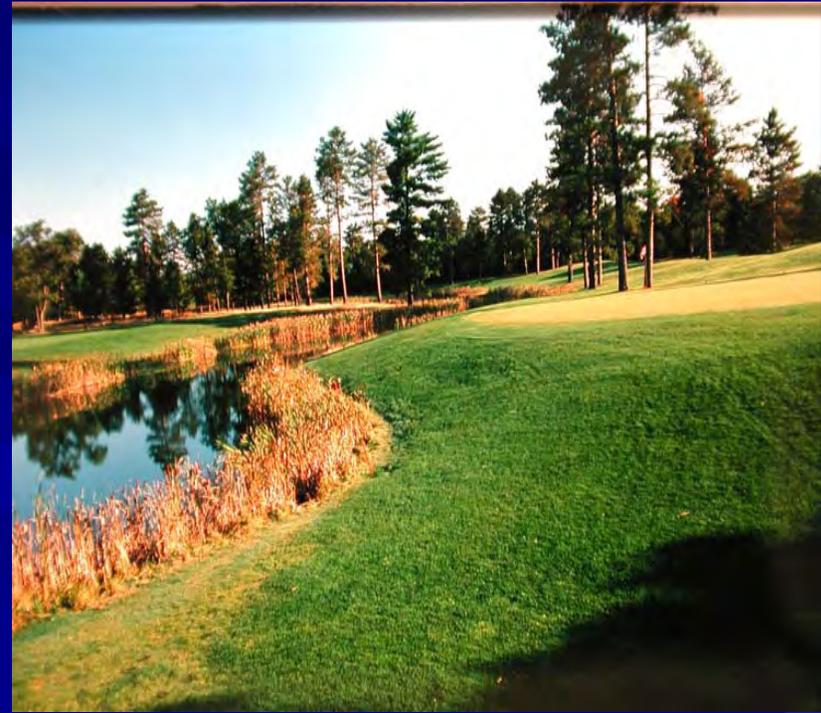


Maintaining Program Status

- Complete Annual Progress Report
 - Summary of accomplishments
 - Changes in Environmental Action Plan
 - Track progress
- Submit Annual Fee
- Request a site visit once every 3 years

Incentives to Participate

- Increased Environmental Protection



Incentives to Participate

- Compliance Assistance



Incentives to Participate

- Cost Savings \$\$\$

Incentives to Participate

- Public Recognition



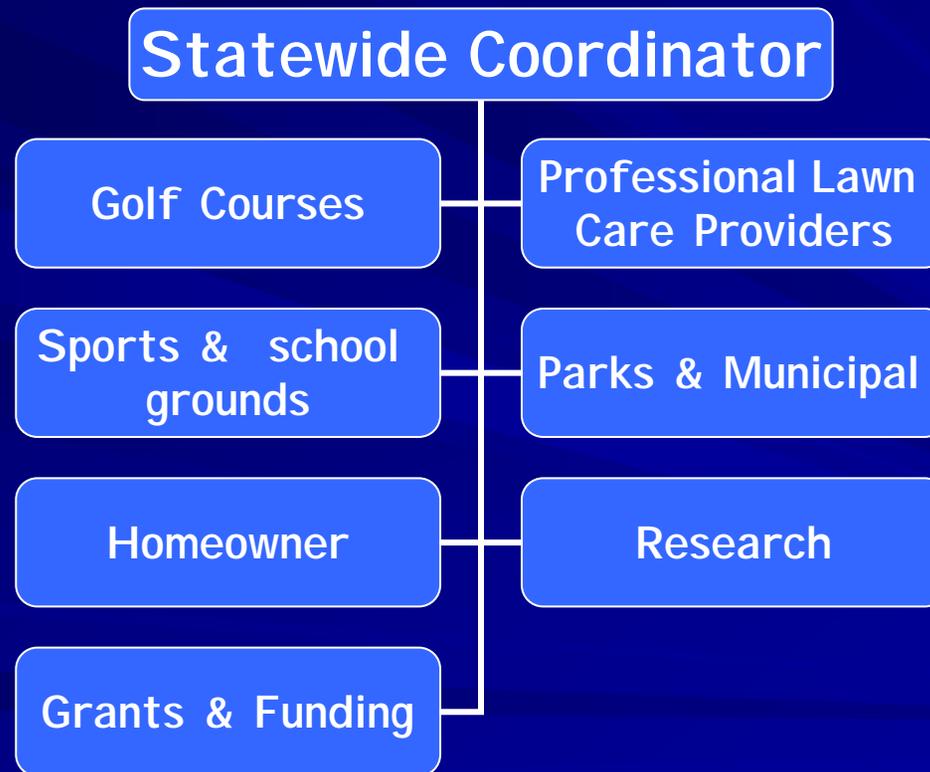
- Get the word out!

Future?

- How do we move forward?



Proposed Expansion



State Park Stewardship Initiative



State Park Stewardship Initiative

- **FY 03 EPA Region 5 – Pollution Prevention Incentives for States Program (PPIS) matching grant to DEQ for “Promoting Environmental Stewardship at Michigan State Parks.”**

- Matching grant
- 2 years (FY 04/05)
- P2 focus – Greening the National Parks

- **Partnership**

- DEQ – Environmental Science & Services Division
- DNR – State Park Stewardship Program



Program purpose?

- **Educate**
 - Staff
 - Visitors
 - Regional/County Parks

- **Promote best management practices**

- **Support DNR's Stewardship Program**





Benefits

- Positively affect the bottom line
- Reduce liabilities by adopting best management practices into operations
- Enhanced image by promoting environmental stewardship
- Enhanced community relations and partnering opportunities
- Networking opportunities



Areas of focus

- Environmentally Preferred Purchasing
- Energy Efficiency
- Water Conservation
- Waste Management
- Native Plants
- Green Buildings
- Environmental Management Systems



Moving forward...

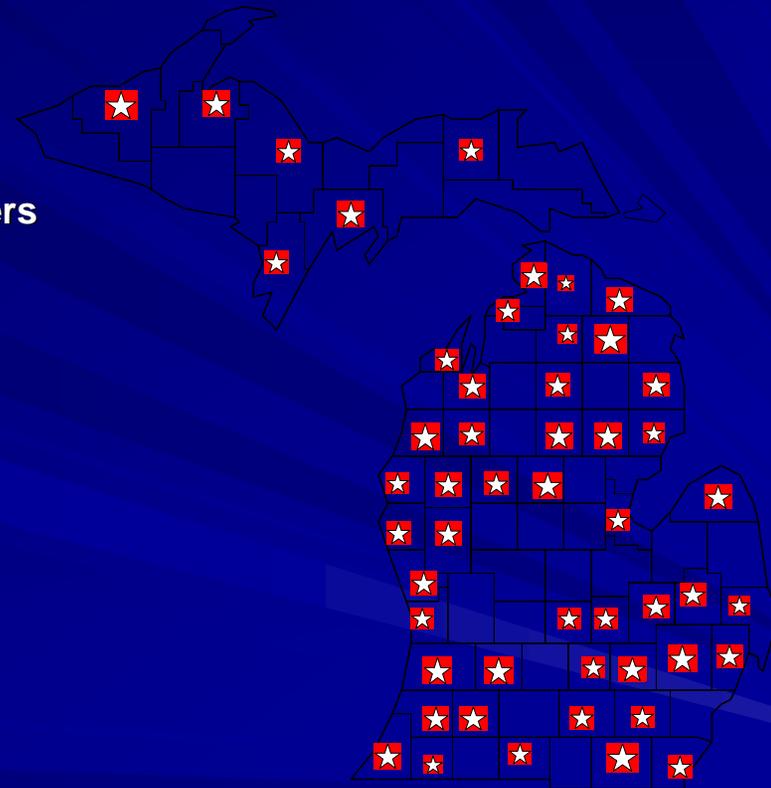
- **Website**
- **Publications**
 - Don't Burn Trash at Your Campsite
 - Guidebook
 - News articles/press releases
 - Education Pieces
- **Workshop**
- **Pilot Projects**
 - Energy Efficiency/PV
 - Environmentally Preferred Products
 - Preferred Cleaners
 - Bio-based Products
 - Product Standardization
 - General BMP's – recycling
 - More to come.....
- **Technology Transfer**
- **Partnering**





2005 Pilots

- **Biodiesel**
 - 25+ parks
 - B5/B20 Blends
 - Cedar River Harbor
- **Green Products**
 - 10+ parks
 - Green Seal Certified Cleaners
- **Grow-Not-Mow**
 - 20+ parks/BAS
- **Product Metering**
 - 10+ parks
- **In-house Recycling**
 - 30+ parks
- **Other Projects**
 - Clean Marina Certifications
 - Bio-based fluids
 - Energy Efficiency





Next steps?

RUNNING GREEN

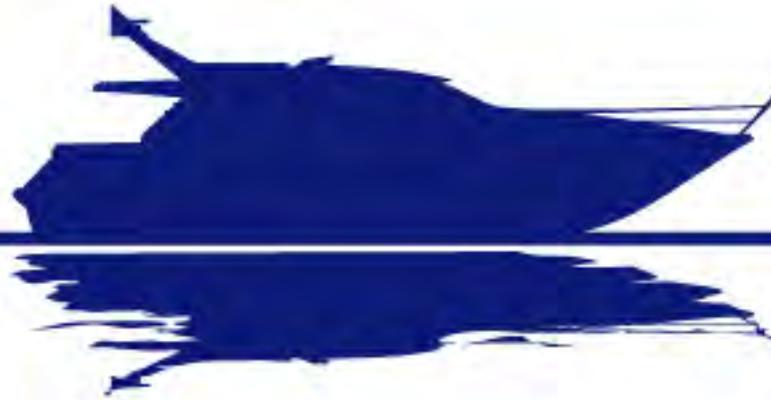
On

SOY Biodiesel



www.michigansoybean.org www.michigan.gov/dnr

Karen Edlin, MDEQ-ESSD
(517) 373-0604, edlink@michigan.gov



CLEAN

MARINA
MICHIGAN

MI Clean Marina Program (CMP)

- Voluntary Partnering/Stewardship
- Enhancing and protecting the quality of our recreational waters
- Beneficial to Marinas/Boaters:
 - Offering assistance for compliance
 - Economic waste reduction strategies
 - Public recognition
 - Consistency – boater expectations



Program Objectives

- Foster communication between industry, government, universities, and environmental groups.
- Promote voluntary implementation of environmental stewardship principles.
- Facilitate and assist with industry compliance.
- Develop recognition and incentives for designated Clean Marinas in Michigan.

Program purpose?

- To Educate:
 - Over 1 million registered boaters
- To Enhance:
 - 3,121 miles of Great Lakes shoreline
 - 11,037 inland lakes
 - Countless rivers & streams



Areas of Focus

- Boat Washing
- Storm/Wash Water Runoff
- Fuel and Oil Spills
- Bilge Water Management
- Sewage Disposal
- General Refuse
- Waste Reduction
- Purchasing



Program Benefits



- Improved water quality.
- Fish and wildlife habitat protection.
- Enhanced community relations by promoting environmental stewardship.
- Public recognition by flying Clean Marina Flag and using program materials.
- Reduced liabilities by adopting best management practices into operations.

10 Step Process



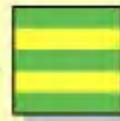
Step 1
Contact MBIA
MI Sea Grant
or MDEQ



Step 2
Sign
Pledge



Step 3
Attend Workshop,
Receive Guidebook
& Checklist



Step 4
Marina Performs
Self-evaluation



Step 5
Marina Schedules
Site Visit



Step 6
Site Visit by Clean Marina
Representative (s),
Reviews Checklist



Step 7
Marina Incorporates
Recommendations



Step 8
Final Site Visit,
Checklist Completed



Step 9
Marina Receives
Clean Marina Designation



Step 10
Marina Receives
Michigan Clean Marina
Program Benefits

Conclusion

- Clean Marinas benefits the environment and the marine industry.
- Marinas adopt best management practices and avoid compliance issues.
- Marinas become environmental stewards helping to preserve the environment.
- Certified Michigan Clean Marinas.

Current Status

- Two hundred seventy-six (276) partners
- Represents cross-section of industries, locations and sizes
 - automotive related suppliers, furniture, utilities, trade associations, health, public entities, many others
 - Forty-five (45) Michigan counties and one hundred ten (110) cities represented

