Our Great Lakes

Wisconsin Waters
Surface Water:
Shoreline:

Lake Michigan
407 Miles

Inland Lakes:

6.4 Million Acres563 Miles

14,000



Great Lakes Restoration Initiative

 President Obama in 2010 Budget provided \$475 Million for an interagency Great Lakes Restoration Initiative to improve the water quality and ecosystems for the Great Lakes







Great Lakes Restoration Initiative Phragmites Shoreline Control Project



Wisconsin Department of Natural Resources Bureau of Endangered Resources





Project Overview

- Lake Michigan Shores
- NE Wisconsin
- 6 Counties
- Public and private

<u>Control Areas</u>	<u>Acres</u>	Miles	Phrag	<u>Lyme</u>
Green Bay West Shores	3315	55	Y	Ν
Door	240	50	Y	Y
Manitowoc and Sheboygan	<u>45</u>	<u>13</u>	Y	Y
Project Total	3600	118		





OHWN

Lake Michigan water levels Phragmites has filled the niche knows no boundaries **Riparian** area Public trust Access issues when dry

Challenge

Lake Michigan

Riparian Area

Phragmites Australia, Green Bay shoreline, Bec. 2001/ ©Gary Fe



..." when I was a kid" ...



Sensiba - 1975



Wisconsin Department of Natural Resources



Wisconsin Department of Natural Resources Great Lakes Restoration Initiative





Wisconsin Department of Natural Resources Great Lakes Restoration Initiative





Project Plan

- COA's
 - (Conservation Opportunity Areas)
- Permission Sign-up
 - ~1500
- Mapping / Monitoring
- Implementation
 - 3 Yrs
- Follow up





Wisconsin Wildlife Action Plan



- which <u>native wildlife species</u> are <u>most at</u> <u>risk</u>,
- what habitats they are associated with,
- where they occur across the state, and
- priority <u>conservation actions</u> to help "get them off and keep them off" any Endangered or Threatened species lists in the future.



Species of Greatest Conservation Need





Strategy

Partnership!

- Invested stakeholders
- Multi-Agency
- Tax Payers
 - Approx 1530



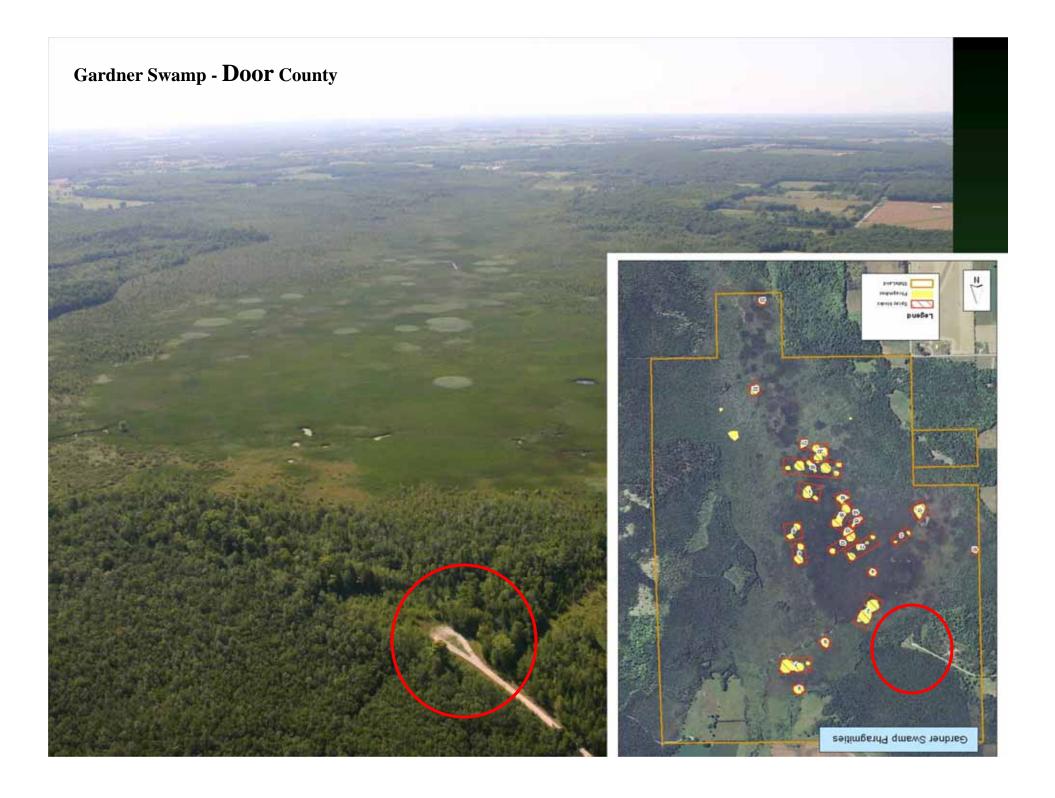


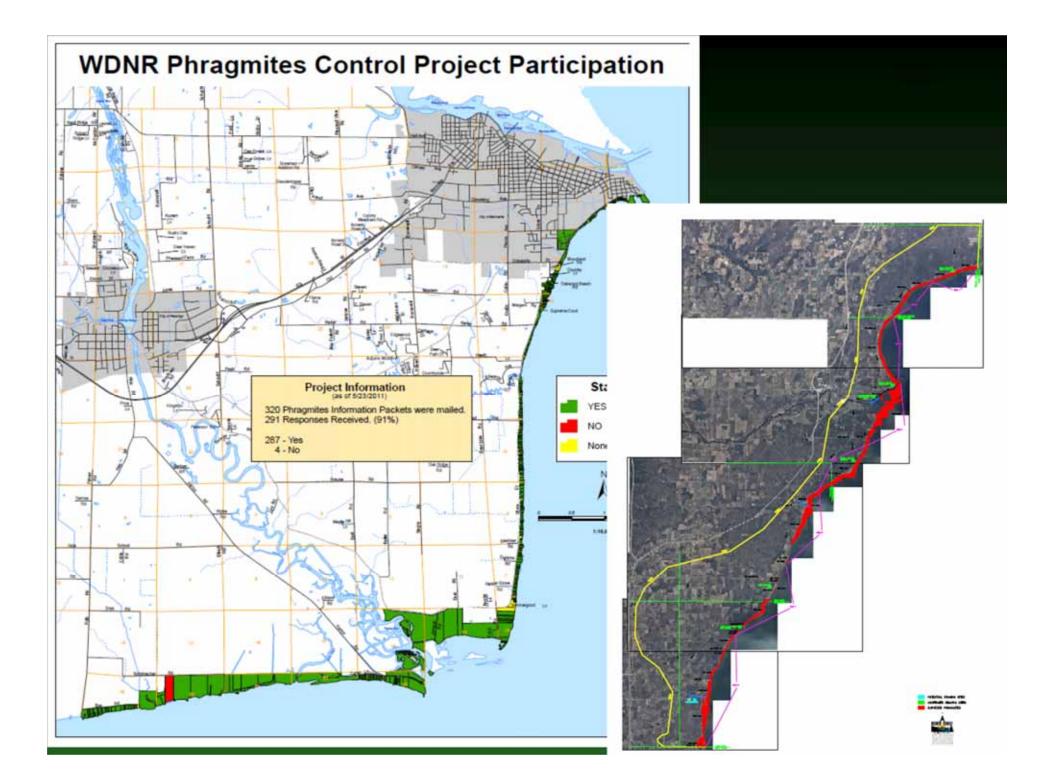
Mapping Techniques

Mapping & Monitoring



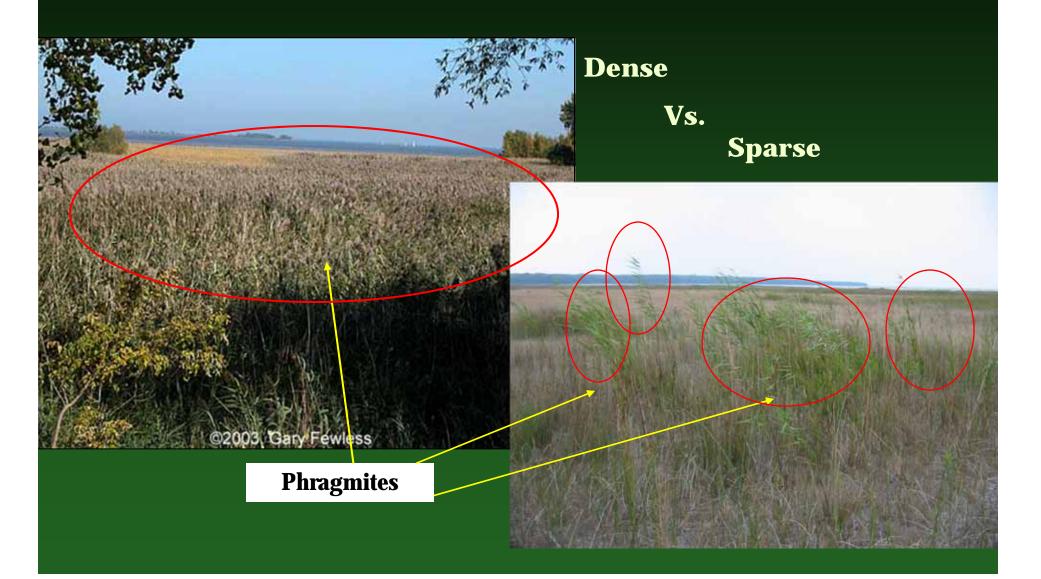








Air vs. Ground

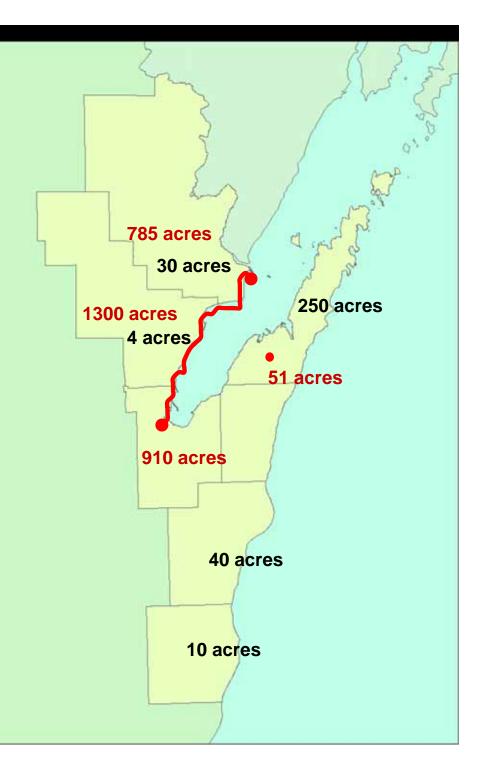




Spray Results

Year 1 A lot of Dead stuff!

3300 acres





Wisconsin Department of Natural Resources Great Lakes Restoration Initiative





Aerial Spraying





Wisconsin Department of Natural Resources Great Lakes Restoration Initiative

Ground











Performance - Based Pay

Air

• \$66.88/Ac

Costs

• With Herb.

Ground

- \$160-180 (CK)
- \$190 470 (M & B)

Skyline Helicopters

Clean Kill Pest Control Michler & Brown

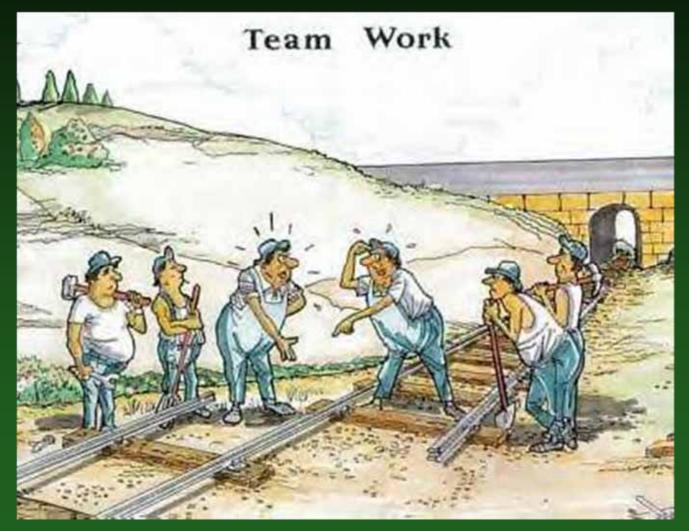


Next Steps

- Follow-up
- Some areas missed in 2011 will get initial treatment in 2012
- Ideally, all acres will receive 1 year of follow-up
 - most will receive 2 years



Lessons Learned





Lessons Learned cont...

- Time!
 - Rules & Regs
 - Project Plans
 - QAPP
 - EA
 - Timeline of Control



Take Home Messages

- Partners
- Volunteers
- Public Outreach & Education
- Private land connections
 - critical to long term sustainability
- \$\$\$



When I was young, I observed that nine out of every ten things I did were failures, so I did ten times the work.

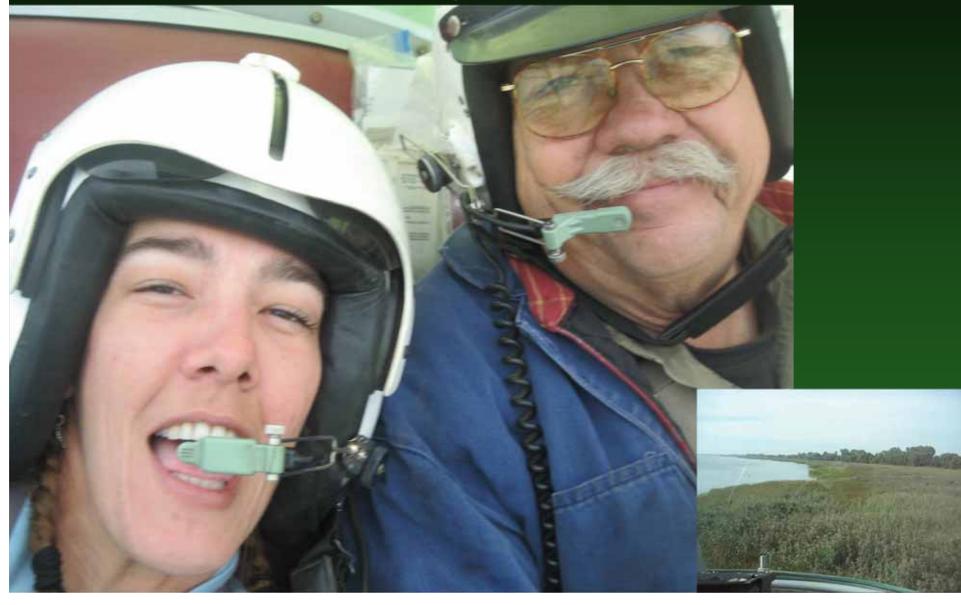
~ George Bernard Shaw



EPA GLRI Phragmites Control Project for Herbicide application involving private landowners is the largest in Wisconsin... so far!



Would we do it again?





Acknowledgments

- Mark Martin, WDNR (Retired)
- Joe Henry, WDNR
- John Huff, WDNR
- Donalea Dinsmore, WDNR
- Konrad Plachetta, WDNR

Project Partners

- Marinette Co
- Oconto County Land Conservation
- Brown Co
- Door Co Soil & Water
- Door County Land Trust
- DCIST
- The Ridges Sanctuary
- TNC
- Woodland Dunes Nature Center
- Point Beach State Park
- Kohler-Andrae State Park
- The Kohler Foundation

- Green Bay Duck Hunters Asso.
- Ducks Unlimited
- Wisconsin Waterfowl Asso.
- Wisconsin Lakes Association
- Wisconsin Wetlands Asso
- UWGB
- Gary Fewless
- Brock Woods, WDNR
- Rick Schulte, CPS
- Skyline Helicopters
- Clean Kill Invasives
- Michler & Brown Restoration
- Oconto County Sportsman Club
- Murder Inc.
- 1500+ Landowners
- ...and so many more....

Questions & Contact Info

Wisconsin Department of Natural Resources

Heidi L Springborn Phragmites Shoreline Control

(920) 662-5447 Heidi.Springborn@Wisconsin.gov