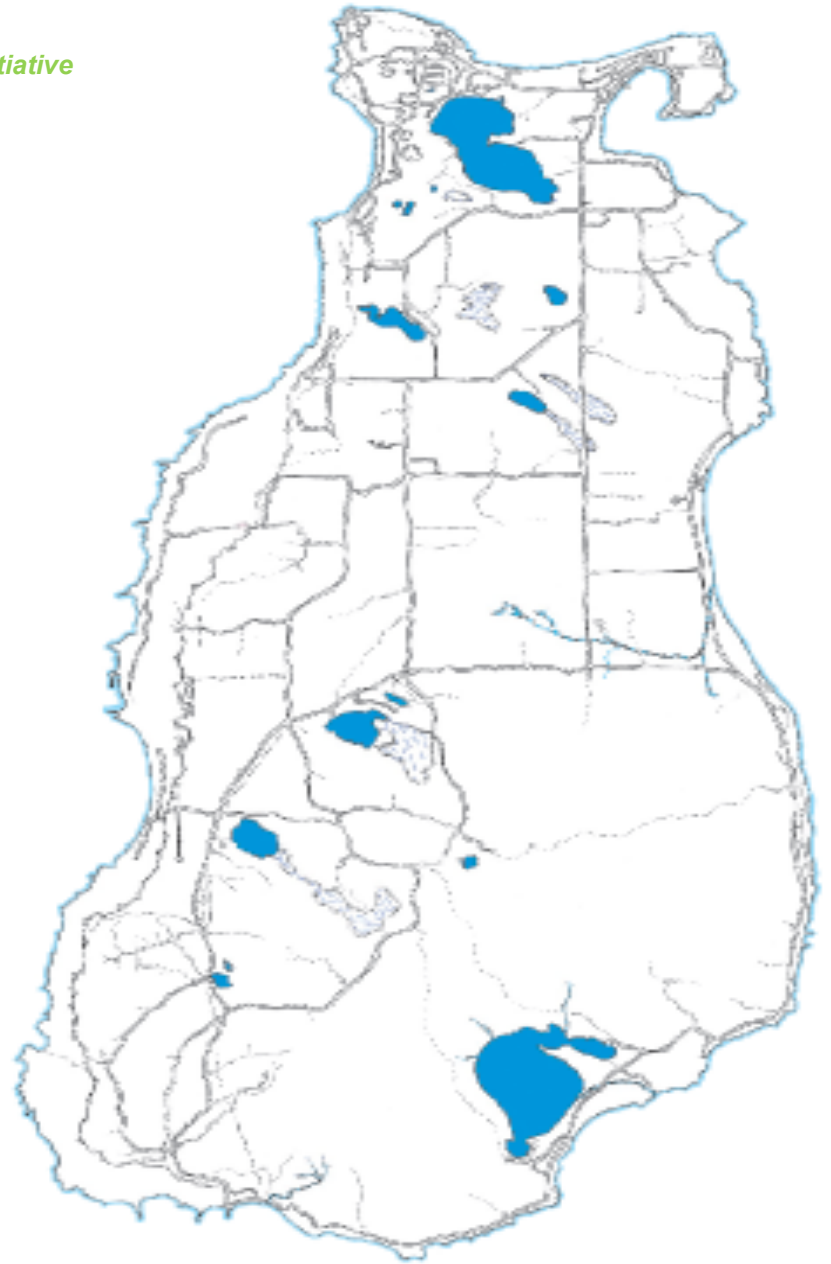




Beaver Island Association
Endangered and Invasive Species Management Initiative

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Proposal to Implement Endangered & Invasive Species Management Plan





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The Five NREC Programs

1. Inventory and Conserve Habitat

- Define the current state and conservation challenges of Island Habitats
- Projects: *Inland Lakes / Wetlands Shoreline / Forests / Recreation Areas*

2. Manage Animal Species

- Maintain viable populations of all species including game species for hunting
- Projects: *Non-game species / Bird Habitat / Deer Management / Other game species*

3. Manage Endangered and Invasive Species:

- Identify and protect endangered species and eliminate invasive species.
- Projects: Invasive / Education / **Endangered** / LEED

4. Promote Tourism

- Promote responsible recreation and use of island natural habitat
- Projects: *Hunting / Fishing / Wildlife Viewing / Camping / Hiking / Biking*

5. Seek funding and recognition

- Seek government and academic recognition and funding
- *Publish papers and Whitepapers / Develop and submit proposals*

NREC Mission: understand and preserve our natural resources and promote opportunities for their appreciation and enjoyment.



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Endangered & Invasive Plant Species Management Plan

- **Purpose**

...to identify and inventory endangered species and invasive plant species on Beaver Island and devise environmentally appropriate and effective measures to protect the former and control the latter.

- **Problem Statement**

Beaver Island's natural resources have been damaged as a result of weather, logging, recreation and nature. It is necessary to identify endangered and invasive plant species to protect the former and eliminate/control the latter.

- **Program Goal**

This program will continuously monitor and assess management actions to protect endangered native plants and prevent, identify and eliminate specific invasive plant species to insure that Beaver Island property owners continue to obtain the economic benefits of eco-tourism and funding.

- **Program Scope**

Initially the program will focus on aquatic and terrestrial invasive plants on Beaver Island; all islands of the archipelago may be included at a later date.

- **Out of Program Scope**

This program will not consider plants that are indigenous, non-endangered or non-harmful native invasive species.



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Endangered & Invasive Species Action Plan

Goal 1: Educate

- Train Beaver Island property owners and visitors to identify invasive species and best eradication practice.
- Deliver educational events and products using multiple formats and media.
- Establish and maintain a website that provides one-stop shopping for information on invasive plant species.

Goal 2: Inventory

- Set up a communication process for reporting random sightings.
- Develop and maintain lists of endangered and high threat invasive species
- Establish a centralized GPS based database for endangered and high threat invasive plant species.

Goal 3: Recruit

- Recruit and train an EDRR (Early Detection and Rapid Response) team to help treat infestations,
- Provide volunteer opportunities to assist in detection, treatment and monitoring of invasive plants.
- Maintain a volunteer database.

Goal 4: Rehabilitate

- Prepare a Project Plan (using [BIA Volunteer Program Manager's Handbook and Templates](#))
- Eradicate Invasive Species (dig up, spray, contain)
- Protect endangered species (signage, fencing, walk ways)
- Rehabilitate and replant sites where appropriate.

Goal 5: Administrate

- Identify the most important conservation challenges based on KPIs.
- Establish and implement protocols for documenting measures of success.
- Support policies that will decrease the impacts of invasive plants to wildlife.
- Review all proposals for the impact on environment and plant species.

Goal 6: Fund

- Pursue and secure funding to address eradication of invasive species.
- Maintain a benefactor database.



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Top Five Island Invasives

Phragmites



Autumn Olive



Scotch Pine



Marsh thistle
(European Swamp Thistle)



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Spotted Knapweed





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Next Five Island Invasives

*Purple
Loosestrife*



Black Locust



Japanese Knotweed



*Garlic
Mustard*



Wild Parsnip





EDDMapS - Early Detection and Distribution Mapping System

Invasive Species Mapping Made Easy!

- Real time tracking of invasive species occurrences
- Local and national distribution maps
- Electronic early detection reporting tools
- Library of identification and management information

Overview

- EDDMapS is a web-based mapping system for documenting invasive species distribution launched by the University of Georgia.
- EDDMapS goal is to maximize the effectiveness and accessibility of recording invasive species observations (1.3 million records so far this year).
- EDDMapS combines data from multiple databases as well as volunteer observations to create a national network of invasive species distribution data.
- EDDMapS provides a simple, interactive Web interface that permits participants to submit their observations or view results through interactive queries a database.



Beaver Island Association

Endangered and Invasive Species Management Initiative

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Beaver Island Invasive Species Reporting Form

Species (Select one)

<input type="checkbox"/>	<i>Phragmites</i>	<input type="checkbox"/>	<i>Purple Loosestrife</i>
<input type="checkbox"/>	<i>Autumn Olive</i>	<input type="checkbox"/>	<i>Wild Parsnip</i>
<input type="checkbox"/>	<i>Scotch Pine (Scots Pine)</i>	<input type="checkbox"/>	<i>Japanese Knotweed</i>
<input type="checkbox"/>	<i>Marsh Thistle (European Swamp Thistle)</i>	<input type="checkbox"/>	<i>Garlic Mustard</i>
<input type="checkbox"/>	<i>Spotted Knapweed</i>	<input type="checkbox"/>	<i>Black Locust</i>
<input type="checkbox"/>		<input type="checkbox"/>	<i>Other</i>

Location on the island: _____

Optional location information: Latitude: N45° _____ Longitude W085° _____

Infested Area (estimated) _____ Acres Sq. Feet (circle one)

Percent of area covered by invasive plant (estimated):

Trace (less than 1%) Low (1.0 - 5.0%) Moderate (5.1 - 25%) High (25.1 - 100%)

Abundance:

☐ Single Plant ☐ Scattered Plants ☐ Dense Monoculture ☐ Scattered Dense Patches

Habitat (check all that apply):

<input type="checkbox"/> Beach (sandy)	<input type="checkbox"/> Wetland (marsh)	<input type="checkbox"/> Edge of road
<input type="checkbox"/> Beach (rocky)	<input type="checkbox"/> Wetland (swamp)	<input type="checkbox"/> Edge of Lake Michigan
<input type="checkbox"/> Beach (wet)	<input type="checkbox"/> Wetland (bog)	<input type="checkbox"/> Edge of inland lake
<input type="checkbox"/> Forest (hardwoods)	<input type="checkbox"/> Shrubs or small trees	<input type="checkbox"/> Edge of marsh or swamp
<input type="checkbox"/> Forest (conifers)	<input type="checkbox"/> Field (grassy)	<input type="checkbox"/> Edge of stream
<input type="checkbox"/> Forest (mixed)	<input type="checkbox"/> Field (junipers)	<input type="checkbox"/> Yard or garden
	<input type="checkbox"/> Field (scattered trees)	<input type="checkbox"/> Abandoned lot/home site

Ownership:

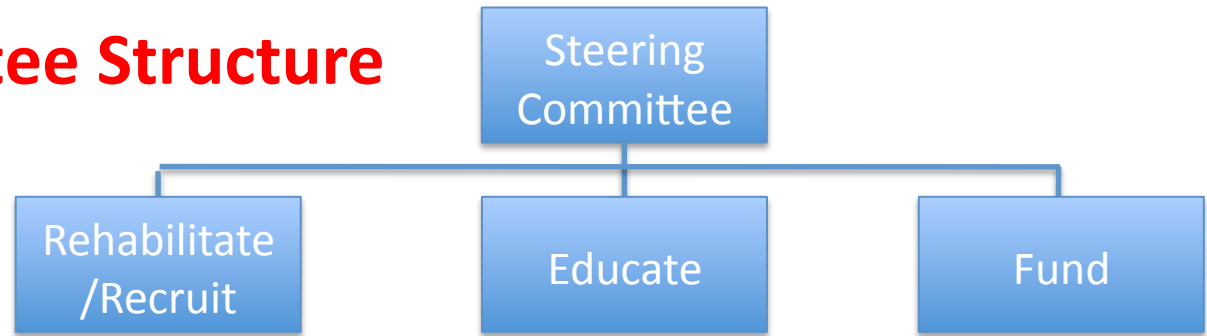
☐ State Land ☐ Private ☐ Unknown

Name and contact information of person(s) reporting this plant (optional but helpful):

Please add any information that might help volunteers locate and identify this plant:



Committee Structure



Craig Schrottenboer

Steering
Committee

Goal 5: Administrate

- Identify the most important conservation challenges based on KPIs.
- Establish and implement protocols for documenting measures of success.
- Support policies that will decrease the impacts of invasive plants to wildlife.
- Review all proposals for the impact on environment and plant species.

Goal 2: Inventory

- Set up hotline to report random sightings.
- Develop and maintain lists of endangered and high threat invasive species
- Establish a centralized GPS based database for endangered and high threat invasive plant species.

Annette Dashiell

Rehabilitate
/Recruit

Goal 3: Recruit

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- Maintain a volunteer database.

Goal 4: Rehabilitate

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- Eradicate Invasive Species (dig up, spray, contain)
- Protect endangered species (signage, fencing, walk ways)
- Rehabilitate and replant sites where appropriate.

Beth Leuck

Educate

Goal 1: Educate

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- Establish and maintain a website that provides one-stop shopping for information on invasive plant species.

Jim Jones

Fund

Goal 6: Fund

- Pursue and secure funding to address eradication of invasive species.
- Maintain a benefactor database.

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