

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: AIRR-029-08

Name: HORSESHOE LAKE IMPROVEMENT ASSOCIATION: Horseshoe Lake Improvement Assoc., Rapid Response Program

Type: Aquatic Invasives Grant

Subtype: Aquatic Invasives Early Detection and Response

Status: COMPLETE

Start Date: 7/16/2007

End Date: 12/31/2010

Purpose: Horseshoe Lake Improvement Association is sponsoring an Aquatic Invasive Species Rapid Response grant which will focus on physical removal of hybrid Eurasian Water Milfoil plants from Horseshoe Lake by scuba divers (professional and resident) and may include some small-scale chemical treatment (subject to DNR approval and permits) in fall 2007, 2008, and early season 2009. A full lake point-intercept plant survey will be completed in 2008.

Project activities include:

- 1) physical removal by scuba divers, 2007-2009
- 2) pre- and post- treatment surveying
- 3) small-scale chemical application (currently set at 3.5 acres or less in 2008, with the potential for a small-scale application in Fall of 2007)
- 4) full lake point-intercept aquatic plant survey
- 5) marker buoys and improved public access signage to education lake users about the hybrid EWM and to designate problem locations in the lake to minimize spread

Project deliverables include:

- 1) all current and future reports related to surveying completed, diving results, point-intercept plant survey, chemical application, and a final report describing overall findings, work completed, results, and guidance for continued control actions; all in digital format.

Special conditions for this project:

- all chemical application must be permitted and approved by DNR;
- final report needs department review and approval

Objective:

Comments: Grantee is HORSESHOE LAKE IMPROVEMENT ASSOCIATION

Outcome:

Study Design:

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
Blumer, David L	LAKE_BIOLOGIST	ACTIVE	7/16/2007		Lake Education and Planning Services (LEAPS)	
Horseshoe Lake Improvement Ass	GRANT_RECIPIENT	COMPLETE	7/16/2007	12/31/2010	Horseshoe Lake Improvement Association	

Project Statuses

Date	Reported By	Status	Comments
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Actions

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Action	Detailed Description	Start Date	End Date	Status
Grant Awarded	AIRR-029-08	7/16/2007	12/31/2010	COMPLETE
Monitor Pre and Post Treatment		7/16/2007	12/31/2010	PROPOSED
APM Chemical Permit Request		7/16/2007	12/31/2010	PROPOSED

Details: Parameter	Value/Amount	Units	Comments
24D Granular, # Acres			
24D Granular, # Pounds			
24D Liquid, # Acres			
24D Liquid, # Pounds			
Aquashade, # Acres			
Aquashade, # Pounds			
Biological, # Pounds			
Biologicals, # Acres			
Copper Granular, # Acres			
Copper Granular, # Pounds			
Copper Liquid, # Acres			
Copper Liquid, # Gallons			
Cutrine +, # Acres			
Cutrine +, # Gallons			
Cutrine, # Acres			
Cutrine, # Gallons			
Diquat, # Acres			
Diquat, # Pounds			
Endothall Granular, # Acres			
Endothall Granular, # Pounds			
Endothall Liquid, # Acres			
Endothall Liquid, # Pounds			
Floridone Granular, # Acres			
Floridone Granular, # Pounds			
Floridone Liquid, # Acres			
Floridone Liquid, # Pounds			
Glyphosate, # Acres			
Glyphosate, # Pounds			
Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107?			
Nautique, # Acres			
Nautique, # Gallons			
Navigate, # Acres			
Navigate, # Pounds			
Onsite Supervision Present?			
Reward, # Acres			

8/28/2024

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Details: Parameter	Value/Amount	Units	Comments	
Reward, # Gallons				
Rodeo, # Acres				
Rodeo, # Gallons				
Grant Awarded	AIRR-029-08Horseshoe Lake Improvement Assoc., Rapid Response Program	7/16/2007		COMPLETE
Control Invasive Species		7/16/2007	12/31/2010	PROPOSED
Educate and engage residents	19294306	7/16/2007		PROPOSED

Monitoring Stations

Station ID	Name	Comments
10000830	Horseshoe Lake	

Assessment Units

WBIC	Segment	Local Name	Official Name
2630100	1	Horseshoe Lake	Horseshoe Lake

Lab Account Codes

Account Code	Description	Start Date	End Date
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Forms

Form Code	Form Name
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Methods

Method Code	Method Description
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Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
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Documents

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Title	Description	Author	Published	Comments
Aquatic Macrophyte Survey for Horseshoe Lake - Polk/Barron County, Wisconsin	In 2008, the WDNR and the Horseshoe Lake Improvement Association commissioned a cold-water exotic species survey, systematic point/intercept macrophyte survey, and fall Hybrid water milfoil bed mapping survey in preparation for developing an Aquatic Plant Management Plan for the lake. The full point intercept survey found macrophytes at 325 of the 515 total survey sites. We identified a total of 51 native plant species including five Wisconsin Special Concern Species (Spiny hornwort, Robbins spikerush, Farwells water milfoil, Filament-leaf pondweed, and Vaseys pondweed) in and directly adjacent to the lake.	Matthew S. Berg, Endangered Resource Services	1/1/2008	
Fall HWM Bed Mapping Survey for Horseshoe Lake - Polk/Barron County, Wisconsin	In 2006, the Wisconsin Department of Natural Resources identified the presence of Hybrid water milfoil (HWM) a cross between Northern and Eurasian water milfoils (<i>Myriophyllum sibiricum</i> X <i>Myriophyllum spicatum</i>) in the lake. Because of this finding, the Horseshoe Lake Improvement Association commissioned an exotic species rapid assessment point intercept survey in June 2007 to determine the distribution and density of HWM. In 2008, two full point/intercept surveys and a fall bed mapping survey of HWM were requested to provide the baseline data needed to develop an Aquatic Plant Management Plan (APMP) for the lake. This survey is a follow up to the 2008 Bed Mapping Survey. The goals of the survey were to provide an estimate of total HWM acreage on the lake, to determine the effectiveness of 2009 control methods and to assist in developing control strategies for 2010.	Matthew S. Berg, Endangered Resource Services	9/27/2009	

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<p>Hybrid Water Milfoil (Myriophyllum spicatum X Myriophyllum sibiricum) Rapid Assessment Survey and Diver Hand Removal Results for Horseshoe Lake</p>	<p>Horseshoe Lake (WBIC 2630100) is a 398 acre, mesotrophic, stratified, seepage lake located on the border of Polk and Barron Counties in northwest Wisconsin. In 2006, the Wisconsin Department of Natural Resources identified the presence of Hybrid water milfoil a cross between Northern and Eurasian water milfoils (Myriophyllum sibiricum X Myriophyllum spicatum) in the lake. Because of this finding, the Horseshoe Lake Improvement Association commissioned an exotic species point intercept survey to determine the extent of infestation in the lake in preparation for the possibility of applying for a rapid response grant.</p>	<p>Matthew S. Berg, Endangered Resource Services</p>	<p>7/30/2007</p>	
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Budget

Combined Budgets:

Combined WSLH:

Combined Total: \$0.00

Funding

Organization	Source	Type	Amount	Start Date	End Date
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