

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: GLRI_00E00466-0

Name: Barrens Habitat Restoration for Endangered and Threatened Species

Type: Great Lakes Restoration Initiative

Subtype: Habitat

Status: ACTIVE

Start Date: 10/01/2010

End Date: 12/31/2011

Purpose: This project will restore 1390 acres of globally imperiled barrens habitat (G1, G2) in the Fox River watershed of the Lake Michigan Basin through:

¿tree and brush removal

¿invasive species control

¿prescribed burning

¿site preparation

¿seeding to native grasses and forbs

It will provide habitat for the federally endangered Karner blue butterfly (*Lycaeides melissa samuelis*), nine other endangered/threatened species, and 44 species of great conservation need. Restoration sites are adjacent to wetlands and streams. Restoration will protect surface and ground water at these locations.

Emmons Creek Fisheries Area in Portage & Waupaca Counties (HUC 04030202); Hartman Creek State Park in Waupaca County (HUC 04030202); Greenwood Wildlife Area in Waushara County (HUC 04030202 & 07070003); White River Marsh Wildlife Area in Green Lake County (HUC 04030201).

Objective: Great Lakes Restoration Initiative: The project addresses needs and priorities of Focus Area I.D.4 (Restoring Great Lakes Habitats) of the Great Lakes Restoration Initiative. It will restore globally imperiled upland barrens habitats located in the upper reaches of the Lake Michigan Basin. The improved physical condition of this habitat will sustain and protect species of plants and animals that are unique to the barrens ecosystem, including the endangered, threatened and special concern species. It will also protect watershed quality for the Upper Fox and Wolf River watersheds, as most barrens sites are near or adjacent to streams and wetlands.

EPA Strategic Plan: The project addresses needs and priorities of Sub-objective 4.3.3 (Improve the Health of the Great Lakes) of the EPA Strategic Plan. It will establish and maintain native vegetation, and will remove invasive plant species on restored barrens sites, most of which are located near wetlands and streams that feed both ground and surface water into the Lake Michigan Basin.

Great Lakes Regional Collaboration Strategy: The project addresses needs and priorities of habitat/species recommendations listed in the Great Lakes Regional Collaboration strategy. The restoration of degraded barrens habitat will sustain abundant populations of native wildlife species including the threatened, endangered, and threatened species.

Comments: \$109,430

Outcome: Outcomes:

¿Restoration of degraded pine/oak barrens habitat

¿Increased populations of native barrens fauna that historically occupied pine/oak barrens

¿Protection of water quality

¿Support of local economies

Outputs:

¿1390 acres of pine/oak barrens will be restored to native grasses and forbs.

¿Vegetative composition of restored sites will be documented for future management.

¿Habitat will be provided for numerous threatened, endangered, and special concern barrens wildlife species

¿Approximately five miles of watershed along the White River and Sucker Creek (Green Lake County), and Emmons Creek (Portage County), will be protected by using best management practices for water quality.

¿Karner blue butterfly populations should increase as existing populations expand and move into newly restored sites.

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Expected Results:

- ¿Pine/oak barrens restoration will contribute to the protection and preservation of this globally imperiled natural community.
- ¿Increased populations of the Karner blue butterfly will contribute to the recovery of this federally endangered species within its range in Wisconsin.
- ¿Populations of other endangered, threatened and special concern species will increase as a result of improved and expanded habitat.
- ¿Water quality of streams and wetlands will be protected.
- ¿Local economies will be supported through contracting and the purchase of materials and supplies involved in the restoration process.

Measurements:

- ¿Acres of restored habitat will be mapped and reported as they are completed. Restored acres will be mapped using GPS/GIS technology.
- ¿Improvements in vegetative composition of restored sites will be documented through a statistically appropriate transect-based sampling method to determine the relative abundance of native grasses and forbs, invasive species, and threats. This information will be used to determine future restoration and maintenance needs for those sites.
- ¿Karner blue butterfly population levels will be documented using a statistically based transect methodology known as Distance Sampling to calculate population counts for each KBB-occupied site. This information will be shared with the national Karner Blue Butterfly Recovery Team and UFWFS to demonstrate the Wisconsin contribution to KBB recovery.

People

Name	Role	Status	Start Date	End Date	Organization	Comments
DINSMORE, DONALEA	COORDINATOR	ACTIVE	12/20/2010		Wisconsin DNR	
Hess, Robert	COORDINATOR	ACTIVE	11/03/2010		WDNR - Endangered Resources	

Project Statuses

Date	Reported By	Status	Comments
05/05/2011	Robert Hess	Active	32 acres brushing completed on Greenwood W.A. (11Ac), Emmons Creek F.A. (14 Ac), White River W.A. (7 Ac>). 2 miles firebreak construction completed on Greenwood. Seed purchased (\$1954.50) for 25 acres dry prairie restoration on White River - not yet planted.

Project Status Detail

Question	Answer
1. Reporting Timeframe (Q1) (Q2) (Q3) (Q4):	Q1 - First progress report for GLRI EPA grant through April 30, 2011
2. Amount expended this reporting period:	\$3559.48
3. Subcontracts or subgrants awarded this reporting period:	Contracts awarded to Big Iron Equipment Inc. for brush clearing and mulching of logging slash on Emmons Creek F.A. and Greenwood W.A.
4. QAPP (Project Plan) status:	Final draft in for review to Division of Water. Will submit as soon as review is approved.
5. Local services and/or products purchased this reporting period:	

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Question	Answer
6. Number of jobs created this reporting period:	
7. Work accomplished this reporting period:	32 acres brush mowing and mulching of logging slash, 2 miles firebreak rotovated, 28 acres prescribed burn
8. Work goals for coming reporting period:	Complete spring prescribed burns up to 300 acres Seed 25 acres or more to prairie/barrens grasses and forbs.

Actions

Action	Detailed Description	Start	End Date	Status
Habitat Restoration - Upland	This project will restore 1390 acres of globally imperiled barrens habitat (G1, G2) in the Fox River watershed of the Lake Michigan Basin	*****	12/31/2011	IN_PROGRESS
Details: Parameter	Value/Amount	Comments		
Native vegetation cover				

Monitoring Stations

Station ID	Name	Comments
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Assessment Units

WBIC	Segment	Local Name	Official Name
70	2	Green Bay (GI Shoreline)	Green Bay

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	Description
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Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
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Documents

Title	Description	Author	Published	Comments
Approval Page Final	Signed Approval Page for QAPP	Hess	06/06/2011	
Barrens Habitat Restoration GLRI Proposal, Hess		Hess, Robert	01/28/2011	
Barrens Restoration QAPP Final	Approved QAPP Barrens Habitat Restoration for Endangered and Threatened Species	Hess	04/13/2011	
Semi-annual grant report	Grant-required report to EPA	Bob Hess	10/31/2011	

Budget

Combined Budgets:

Combined SLOH:

Funding

May 18, 2012

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Organization	Source	Type	Amount	Start Date	End Date
Great Lakes National Program Office	Federal	Other type of funding	\$109,430.00		