

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: Cap_2_2014
Name: Habitat management for migratory and breeding birds at the Cat Island restoration project
Type: Great Lakes Restoration Initiative
Subtype: Toxics and Areas of Concern
Status: COMPLETE
Start Date: 02/26/2014
End Date: 12/31/2015
Purpose:
Objective: This project will use information from the 2013 and 2014 shorebird field surveys to provide long term recommendations for habitat management at the Cat Island restoration project. Information from the monitoring project will also help document the Cat Island Project's contribution to the removal of several Beneficial Use Impairments (BUI's) in the Lower Fox River and Green Bay Area of Concern.
Comments: 2014 grant budget (UW-Green Bay) = \$6,854.16.
Outcome: Monitoring data will be collected from April 2014 through November 2014, adding to preliminary data collected during 2013. Quarterly reports and a final report for the project will be prepared for the Wisconsin DNR, and information from the project will be included in a thesis submitted as partial fulfillment for a Master's degree from the Environmental Science and Policy Graduate Program at the University of Wisconsin-Green Bay.
Study Design: Shorebirds will be sampled using a modified version of the standard International Shorebird (ISS) protocol, essentially a series of unlimited-distance counts from a georeferenced shoreline location where a significant area of potential habitat is visible. Counts at 6 specific points on the Cat Island causeway will be conducted no less than twice per week. Locations of target species will be mapped in order to document critical areas of bird use and potential effects of human disturbance. Surveys will start when ice and snow melt exposes potential shorebird habitat (sand, rock, or mud) and will persist through June 10 for spring migration. Fall migration counts will begin in early July and will end in mid-November. These dates correspond with typical shorebird arrival and departure dates in central Wisconsin (eBird 2012, Robbins 1991). Duration of counts is not specified by the ISS protocol, but start time and end time will be recorded for each visit. Even if no target birds are present at a site, observers will remain at each point count for a minimum of 20 minutes.

All shorebirds, terns, and nesting water birds observed from the survey points will be recorded, along with distance and direction from the observer. Any arrival or departure by individuals or groups will be noted to the minute. Flyovers and flybys will be recorded but these birds will not be included in the analysis unless they had been clearly disturbed from feeding or resting areas by the observer. Terns flying but actively feeding are an exception and will be counted and included in analysis. A high quality spotting scope (30x power or greater) will be used in all cases to help identify species.

Habitat and microhabitat variables will be evaluated during each survey. Bird locations will be classified as rocky shore, sandy beach, sand bar, upper beach, dry mud, wet mud, mud-water film (1-2cm), shallow water (2-8cm) and deep water (8+cm) (Skagen & Knopf 1994). Water depth will be estimated by evaluating how much of the bird's legs are under water compared to average leg length for that species. Multiple pictures will be taken during each site-visit to monitor changes in exposed substrate and vegetation. Relevant cover types will be digitized into a GIS layer for subsequent analysis.

Data will be analyzed with a generalized linear model using both categorical and continuous predictor variables. The goal of this analysis will be to identify site attributes that are important for feeding, nesting, and resting by migratory shorebirds in Green Bay and to describe temporal variation in the abundance of migrants. Landscape habitat variables will be evaluated using GIS and will be incorporated into statistical models. The data analysis will help guide the management plan for the Cat Island Restoration Project by identifying important habitat features and describing species interactions that affect use of these habitats. Comparisons of data in 2013 and 2014 will illustrate how birds use the structure in the absence of construction activities, which ceased in 2013.

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
FAYRAM, ANDREW H	COORDINATOR	ACTIVE	04/04/2014	05/15/2015	Wisconsin DNR	
OSHEA, MEGAN C	COORDINATOR	ACTIVE	06/30/2014	05/15/2015	Wisconsin DNR	

Project Statuses

Date	Reported By	Status	Comments
09/30/2014	MEGAN OSHEA	Progress: 0-25% Complete	The project has been progressing slowly, and the QAPP is in development, but there have been some delays at this point. No

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Date	Reported By	Status	Comments
12/31/2014	MEGAN OSHEA	Progress: 50-75% Complete	funds were used this quarter. QAPP was completed last quarter and bird observations during the late fall occurred. Details are in project status details.
03/31/2015	MEGAN OSHEA	Progress: 75-100% Complete	Date entry completed from fall work completed.
06/30/2015	MEGAN OSHEA	Complete	Project is complete, and more specific information can be found in the status details. Many species were observed using the Bay that aren't found anywhere else nearby.

Project Status Detail

Answer Set: 2015 Q2

Question	Answer
<ol style="list-style-type: none"> 1. Reporting Timeframe (Q1) (Q2) (Q3) (Q4): 2. Amount expended this reporting period: 3. Subcontracts or subgrants awarded this reporting period: 4. QAPP (Project Plan) status: 5. Local services and/or products purchased this reporting period: 6. Number of jobs created this reporting period: 7. Work accomplished this reporting period: 8. Work goals for coming reporting period: 	
<ol style="list-style-type: none"> 1. Reporting Timeframe Month/Year to Month/Year (Oct-Mar or Apr-Sept): 2. Quality Documentation status (respond NA if not required): 3. Describe work performed during this reporting period relating to the activities from the grant workplan (Previous 6 months): 4. GLRI Action Plan metric(s) accomplished and numerical progress during this reporting period: 5. GLRI Action Plan metric(s) accomplished and numerical progress since project start (total complete to date): 6. Percentage (estimate) of project work completed during this reporting period: 7. Percentage (estimate) of project work completed since the project start (total complete to date): 8. Is project work on schedule? If no, please explain. 9. If a problem was encountered, describe the problem and action(s) taken to correct it. 10. What work is projected during the next reporting period? (Next 6 months): 11. Will the project take longer than the approved project period? If so, have you requested an extension in writing to the grant coordinator? 12. Amount expended this reporting period (can be approximate) If no amount expended, explain why. 13. Is project invoicing/expenditures up to date? If invoicing is more than 3 months overdue, explain why. 14. Were any significant changes (>10% of the total project amount) made to the project budget? If so, have you notified the grant coordinator in writing? 	

Answer Set: 2015 Q1

Question	Answer
<ol style="list-style-type: none"> 1. Reporting Timeframe (Q1) (Q2) (Q3) (Q4): 2. Amount expended this reporting period: 3. Subcontracts or subgrants awarded this reporting period: 4. QAPP (Project Plan) status: 	

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Question

Answer

- 5. Local services and/or products purchased this reporting period:
- 6. Number of jobs created this reporting period:
- 7. Work accomplished this reporting period:
- 8. Work goals for coming reporting period:
 - 1. Reporting Timeframe Month/Year to Month/Year (Oct-Mar or Apr-Sept):
 - 2. Quality Documentation status (respond NA if not required):
 - 3. Describe work performed during this reporting period relating to the activities from the grant workplan (Previous 6 months):
 - 4. GLRI Action Plan metric(s) accomplished and numerical progress during this reporting period:
 - 5. GLRI Action Plan metric(s) accomplished and numerical progress since project start (total complete to date):
 - 6. Percentage (estimate) of project work completed during this reporting period:
 - 7. Percentage (estimate) of project work completed since the project start (total complete to date):
 - 8. Is project work on schedule? If no, please explain.
 - 9. If a problem was encountered, describe the problem and action(s) taken to correct it.
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 - 13. Is project invoicing/expenditures up to date? If invoicing is more than 3 months overdue, explain why.
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Answer Set: 2014 Q4

Question

Answer

- 1. Reporting Timeframe (Q1) (Q2) (Q3) (Q4):
- 2. Amount expended this reporting period:
- 3. Subcontracts or subgrants awarded this reporting period:
- 4. QAPP (Project Plan) status:
- 5. Local services and/or products purchased this reporting period:
- 6. Number of jobs created this reporting period:
- 7. Work accomplished this reporting period:
- 8. Work goals for coming reporting period:
 - 1. Reporting Timeframe Month/Year to Month/Year (Oct-Mar or Apr-Sept):
 - 2. Quality Documentation status (respond NA if not required):
 - 3. Describe work performed during this reporting period relating to the activities from the grant workplan (Previous 6 months):
 - 4. GLRI Action Plan metric(s) accomplished and numerical progress during this reporting period:
 - 5. GLRI Action Plan metric(s) accomplished and numerical progress since project start (total complete to date):
 - 6. Percentage (estimate) of project work completed during this reporting period:

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Question

Answer

- 7. Percentage (estimate) of project work completed since the project start (total complete to date):
- 8. Is project work on schedule? If no, please explain.
- 9. If a problem was encountered, describe the problem and action(s) taken to correct it.
- 10. What work is projected during the next reporting period? (Next 6 months):
- 11. Will the project take longer than the approved project period? If so, have you requested an extension in writing to the grant coordinator?
- 12. Amount expended this reporting period (can be approximate) If no amount expended, explain why.
- 13. Is project invoicing/expenditures up to date? If invoicing is more than 3 months overdue, explain why.
- 14. Were any significant changes (>10% of the total project amount) made to the project budget? If so, have you notified the grant coordinator in writing?

Answer Set: 2014 Q3

Question

Answer

- 1. Reporting Timeframe (Q1) (Q2) (Q3) (Q4):
- 2. Amount expended this reporting period:
- 3. Subcontracts or subgrants awarded this reporting period:
- 4. QAPP (Project Plan) status:
- 5. Local services and/or products purchased this reporting period:
- 6. Number of jobs created this reporting period:
- 7. Work accomplished this reporting period:
- 8. Work goals for coming reporting period:
 - 1. Reporting Timeframe Month/Year to Month/Year (Oct-Mar or Apr-Sept):
 - 2. Quality Documentation status (respond NA if not required):
 - 3. Describe work performed during this reporting period relating to the activities from the grant workplan (Previous 6 months):
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Answer Set: DEFAULT

Question	Answer
1. Reporting Timeframe (Q1) (Q2) (Q3) (Q4):	
2. Amount expended this reporting period:	
3. Subcontracts or subgrants awarded this reporting period:	
4. QAPP (Project Plan) status:	
5. Local services and/or products purchased this reporting period:	
6. Number of jobs created this reporting period:	
7. Work accomplished this reporting period:	
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1. Reporting Timeframe Month/Year to Month/Year (Oct-Mar or Apr-Sept):	
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Actions

Action	Detailed Description	Start	End Date	Status
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Monitoring Stations

Station ID	Name	Comments
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Assessment Units

WBIC	Segment	Local Name	Official Name
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Lab Account Codes

Account Code	Description	Start Date	End Date
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Forms

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Form Code **Form Name**

Methods

Method Code **Description**

Fieldwork Events

Start Date **Status** **Field ID** **Station ID** **Station Name**

Documents

Title	Description	Author	Published	Comments
Final SOW				
Habitat Management for Migratory and Breeding Birds at the Cat Island Restoration Project - Final Report	Findings of surveys of bird usage in restoration area - additional material will be included in graduate thesis	Robert Howe, Thomas Prestby, Amy Wolf	07/31/2015	
Habitat management for migratory and breeding Birds at Cat Island - QAPP	Project plan for bird assessment at Cat Island restoration project	UW-GB Bob Howe	11/25/2014	
Proposal for Habitat Management for Migratory and Breeding Birds at Cat Island Restoration Project	Proposed monitoring to inform management of the Cat Island chain for migratory and breeding birds	Howe and Presby	02/11/2014	
Quarterly report Jan-Mar 2015				

Budget

Combined Budgets:
Combined SLOH:
Combined Total:

Funding

Organization **Source** **Type** **Amount** **Start Date** **End Date**