

Duluth, MN November 19-20 2014



## U.S. Fish and Wildlife Service

Charlie Wooley – Deputy Regional Director, Midwest Region



# Coastal Program



- Project-based monitoring in cooperation with partners
  - Superior Watershed Partnership, Piping plover
  - Sault Tribe of Chippewa Indians, St. Mary's River



## Migratory Birds



Sign Up S

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## MIDWEST COORDINATED BIRD MONITORING PARTNERSHIP

nitoring to Conserve Midwestern Bir

ABOUT US

OUR WORK

**MW AVIAN DATA CENTER** 

WORKING GROUPS

NEWS & OPPORTUNITIES

WORKSHOP PROCEEDINGS

CALENDAR

CONNECT

TO THE MIDWEST COORDINATED BIRD MONITORING PARTNERSHIP!



The Midwest Coordinated Bird Monitoring Partnership is a regional network committed to informed bird conservation decisions through enhanced coordination and exchange of monitoring information. Since 2009, we have been accomplishing these goals through regular workshops, an interactive website, registry of Midwest bird monitoring programs, focused working groups, and a state-of-the-art system for data management and decision support.

Welcome to
Midwest Coordinated Bird Monitoring
Partnership

Sign Up or Sign In

**EVENTS** 

+ Add an Event

- Voluntary network of partners 500 individuals from approximately 100 organizations
- Registry of Midwest Bird Monitoring Programs –

>100 individual monitoring initiatives with sponsoring institutions and survey scope.







data.prbo.org/partners/mwadc/



## Midwest Avian Data Center

a partner of the Avian Knowledge Network

Search: Enter Search... Go

Home

**Data Collection Tools** 

**Habitat Management** 

Citizen Science

My MWADC

About Download Data

The Midwest Avian Data Center (MWADC), a regional node of the Avian Knowledge Network (AKN) hosted by the Midwest Coordinated Bird Monitoring Partnership and PRBO Conservation Science, integrates data on birds and ecosystems to improve conservation outcomes today and in the future. Learn more>>



**Data Collection Tools** 

For scientists and others conducting avian research, monitoring bird populations, and performing original



**Habitat Management** 

For people involved in restoring, protecting, conserving, and monitoring wildlife habitat and ecosystems.



Citizen Science

For the public to get involved in collecting data that can help conserve birds and their habitats.

#### My MWADC

Manage & Query your Midwest Avian Data

Go

If you are interested in becoming a MWADC Partner, please contact us.

### News

#### MWADC User's Guide

MWADC User's Guide

#### **NEW MWADC Histogram Service**

Our new histogram service, developed for the Midwest Avian Data Center, is now in a public beta release. View temporal species distributions across the Midwest.

#### Welcome to the Midwest Avian Data Contor



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**Data Collection Tools** Habitat Management Citizen Science Data My MWADC | About Maps Download Data Close window 2011 | All Years | About These Maps €03 PM Мар Bois Brule River Mouth Search by address in All Years Two Harbors 1 visits from 2011-2011 Choose a Species Avian Data Summary Common Tern • American Redstart (2) Choose a date range (default is year-round) Common Loon (1) Jan ▼ Dec ▼ Common Tern (1) Double-crested Cormorant (1) Choose a Data Collection Herring Gull (12) ✓ ● Breeding Bird Survey Wood Thrush (1) eBird • copy result table to: CSV MAPS Stations Bird Conservation Network Important Bird Areas of Minnesota Monitoring (13) Western Great Lakes Bird and Bat Observatory So th Range Kalamazoo Valley and Black Swamp Observatory Iron River Ottawa National Forest ■ Indiana Point Counts (112) Choose a Map Overlay States Bird Conservation Regions Counties Audubon Important Bird Areas 63 Watersheds National Wildlife Refuges US Protected Areas Database Marine Protected Areas NREL Wind Energy Potential



# Lake Sturgeon



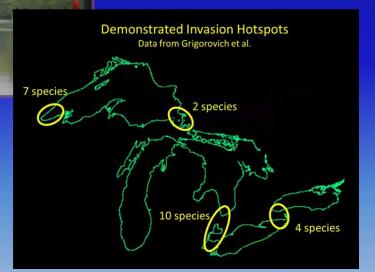
- Annual <u>spring adult spawning population assessment</u> on the Bad and White Rivers, WI
  - Lake Superior rehabilitation goals
- Annual <u>juvenile/sub-adult lake sturgeon assessment</u> off of the mouth of the Ontonagon River, MI
  - Survival and recruitment of Ontonagon streamside rearing
- 2016 CSMI juvenile index survey, LS Basinwide

## AIS – Early Detection



Annual monitoring of fishes and select benthic macroinvertebrates

- St. Louis River Estuary
- Thunder Bay, ON
- Upper St. Mary's River, MI/ON
- Chequamegon Bay, WI



- Inshore waters (<15m)</li>
- Species counts

# Sea Lamprey The sea La

- About 120 U.S. Lake Superior tributaries annually surveyed with electrofishing for larvae; 15 off-shore areas surveyed with Bayluscide for larvae.
- Annual adult and barrier assessments

## **Coaster Brook Trout**

PISH WILDLIPE SERVICE

- Annual population surveys in
  - Whittlesey Creek, WI
  - Tobin Harbor and Washington Harbor, (Isle Royale, MI)
  - Washington Creek (Isle Royale, MI)
- PIT tag tracking, Whittlesey Creek brook trout
- Eletrofishing surveys, Chequamegon Bay
- Population data also for coho, brown trout, rainbow trout

