Avian Knowledge Network

People, Data, and Technology for the Conservation of Birds
PEOPLE

- Citizen Scientists
- Biologists
- Programmers
- Researchers
- Land Managers
**DATA**

- Many Protocols!
- Bird Observations
- Weather Data
- Vegetation Data
- Common Schema
- Data Security

![Diagram of avian knowledge network](image)

![Table of point-level estimates of abundance](image)

<table>
<thead>
<tr>
<th>Year</th>
<th>Transect</th>
<th>Scientific Name</th>
<th>Common Name</th>
<th>Species Code</th>
<th>Transect Code</th>
<th>Abundance</th>
<th>Standard Error</th>
<th>Confidence Interval</th>
<th>Sample Size</th>
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<tbody>
<tr>
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<td>UNEV/AGESTAN</td>
<td>Sphyrapicus varius</td>
<td>Yellow-bellied Sapsucker</td>
<td>YBA</td>
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<td>0.256</td>
<td>0.089</td>
<td>(0.141,0.37)</td>
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<td>2005</td>
<td>UNEV/AGESTAN</td>
<td>Sphyrapicus varius</td>
<td>Yellow-bellied Sapsucker</td>
<td>YBA</td>
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<td>0.322</td>
<td>0.058</td>
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<td>Blue-winged Warbler</td>
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<td>Winter Wren</td>
<td>WWR</td>
<td>1493</td>
<td>0.022</td>
<td>0.022</td>
<td>(0.006,0.066)</td>
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<td>Tachycineta bicolor</td>
<td>Winter Wren</td>
<td>WWR</td>
<td>1493</td>
<td>0.111</td>
<td>0.037</td>
<td>(0.099,0.183)</td>
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</tbody>
</table>

**Notes:**
Total number of observations: 202 - Total number of sampling events: 166
TECHNOLOGY

• Preserve Data
• Discover Data
• Deliver Data
• Summarize Data

Make a Difference
AKN NODES
Avian Knowledge Network

People, Data, and Technology for the Conservation of Birds
WELCOME TO MWADC

The Midwest Avian Data Center (MWADC) is a regional node of the Avian Knowledge Network (AKN) hosted by the Midwest Coordinated Bird Monitoring Partnership and Point Blue Conservation Science. The MWADC goal is to improve conservation of birds and their habitats through the use of sound monitoring data, the best available science, and open, collaborative partnerships.

Register to become a MyMWADC user today!

The following sections will help orient you to the site:

- **Partners** - Discover the people and institutions that comprise MWADC.
- **Sponsors** - Find out more about the funding sources that make the AKN possible.
- **Goals** - Learn about our goals.
- **Approach** - Understand how the MWADC community accomplishes goals.
- **Get Involved** - Explore how you can participate in the MWADC community.
Midwest Avian Data Center

People, Data, and Technology for the Conservation of Birds
### Observations

Species observations with details, layout and titles dependent on protocol.

1. Quick Tips
2. Separate observations on individual rows
3. Scroll observations (Beta)

**Observation Protocol:** 3_5_10m50_100M+FlyDetect

**Total Birds Counted:** 8

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<th>Point</th>
<th>Time</th>
<th>Species</th>
<th>Time Bin</th>
<th>0 - 50</th>
<th>50 - 100</th>
<th>&gt; 100</th>
<th>NR</th>
<th>Brooding</th>
<th>Notes</th>
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</table>
Welcome to the Bulk Uploader

To start, select a project.

DMWADC - MidWest Avian Data Center Training Project

Go
Welcome to AKN Data Downloader

AKN Data Downloader is an application for downloading available field observations provided by partners of the Avian Knowledge Network, hosted by Point Blue Data Solutions.

Please use the following steps to review and download observation data.

1. Select from the Filters below to choose the subset of data you want to download.
2. Use the 'Search' button to see a summary of the data matching your selections.
3. Use the 'Download' button at the bottom of the Search Summary to download the data you have selected.

Data Observation Types

- Point Count
- Area Search
- Linear Transect
- Secretive Marshbird
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People, Data, and Technology for the Conservation of Birds
Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act and the Bald and Golden Eagle Protection Act.

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

The birds listed below are birds of particular concern either because they occur on the USFWS Birds of Conservation Concern (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see maps of where birders and the general public have sighted birds in and around your project area, visit E-bird tools such as the E-bird data mapping tool (search for the name of a bird on your list to see specific locations where that bird has been reported to occur within your project area over a certain timeframe) and the E-bird Explore Data Tool (perform a query to see a list of all birds sighted in your area).
Midwest Avian Data Center

People, Data, and Technology for the Conservation of Birds

Migratory Bird Probability of Presence for this Project

Tell me about these graphs.

<table>
<thead>
<tr>
<th>SPECIES</th>
<th>JAN</th>
<th>FEB</th>
<th>MAR</th>
<th>APR</th>
<th>MAY</th>
<th>JUN</th>
<th>JUL</th>
<th>AUG</th>
<th>SEP</th>
<th>OCT</th>
<th>NOV</th>
<th>DEC</th>
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<td>American Bittern BCC: BCR</td>
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<td>Black Tern BCC: BCR</td>
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<td>Black-billed Cuckoo BCC: Range-wide (CDN)</td>
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<td>Bobolink BCC: Range-wide (CDN)</td>
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<td>Evening Grosbeak BCC: Range-wide (CDN)</td>
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</table>
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Point Count Analysis

Results

- Point-level Estimates of Mean Species Richness from Point Count Data Summarized by Transect (Table)
- Point-level Estimates of Mean Species Richness from Point Count Data Summarized by Transect (Graph)
- Simple linear trend estimate of Richness (Species per Point) by Year (Table)
- Simple linear trend estimate of Richness (Species per Point) by Year (Graph)

Point-level Estimates of Mean Species Richness from Point Count Data Summarized by Transect

<table>
<thead>
<tr>
<th>Transect</th>
<th>Year</th>
<th>Richness</th>
<th>Variance</th>
<th>Standard Error</th>
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<td>SHLTRWDSTAND</td>
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<td>4.56</td>
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Notes:
Total number of sampling events: 161. Total number of species: 44. Total number of observations: 650. Total number of sampling events with 0 species: 1
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**ADDITIONAL DECISION SUPPORT TOOLS**

Map

Histogram

Regression Model

MAPSTs

**North American Breeding Bird Survey Results and Analysis:** This website presents population change information for more than 400 species of North American birds, as estimated from the North American Breeding Bird Survey. Estimates of trend (interval-specific estimates of population change), annual indices of abundance, and maps of abundance and population change for these species are presented for a variety of regions.

**Upper Mississippi River and Great Lakes Region State x BCR Habitat Assessments:** State x Bird Conservation Region (BCR) Assessments were developed in 2013-2014 to serve as “stepped-down” versions of the UMRGLR JV Implementation Plan and include updated and refined information specific to each State x BCR area (land polygon) within the JV region. The assessment includes each land polygon’s uniqueness for birds within the JV region, compares the areas of primary land-cover types to established bird habitat objectives, and provides management implications related to land cover trends and bird population and habitat objectives.

**Great Lakes Migratory Bird Stopover Portal:** The Nature Conservancy, in partnership with the U.S. Fish and Wildlife Service, many conservation organizations, universities, and corporations, developed this web portal to model stopover habitat and further conservation efforts for migrating birds in the Great Lakes region.

**Great Lakes Wind Atlas - Avian Histogram Tool:** The Great Lakes Wind Atlas serves as a decision support tool for determining the impact of wind energy development on avian populations.