

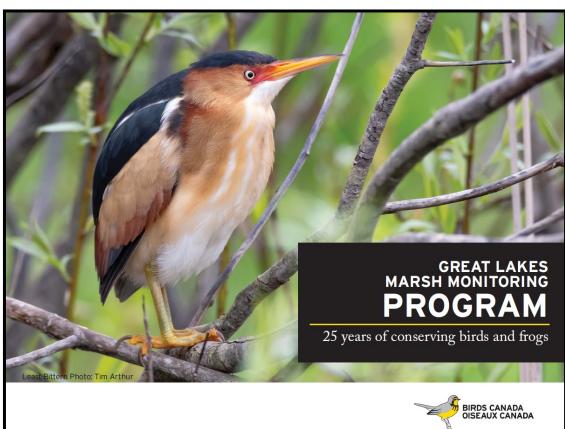
Still going strong!

Highlights

- 25-year report
- Bird and frog trends and annual abundance
- Accomplishments

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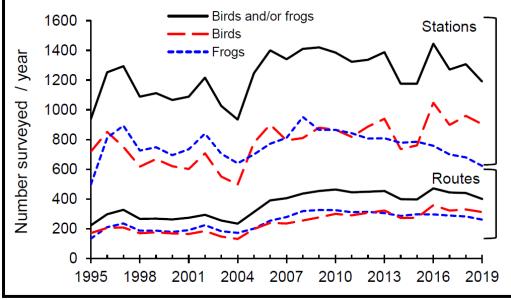
The Great Lakes Marsh Monitoring Program (GLMMP) continues to effectively conserve marsh birds and frogs. The program's achievements are described best in our 25-year report, released in June this year. In it you will find 24 packed pages showcasing the GLMMP's accomplishments based on your data. Please take a look online at the link provided. We thank you and all of our volunteer participants for making the program an outstanding success. Read on and see the many recent ways we've been busy putting your survey results to good use.

birdscanada.org/glmmp25



How are we doing?

In the 2019 season, we completed bird surveys at 312 routes and 903 stations, and frog surveys at 261 routes and 623 stations. Over 450 volunteers contributed nearly 5500 hours of work. The number of routes and stations surveyed for birds and frogs varies from year to year, but is always in the hundreds (see graph). Using your contributions, we draw important conclusions on the status and trends of species and help guide conservation actions. Thank you!

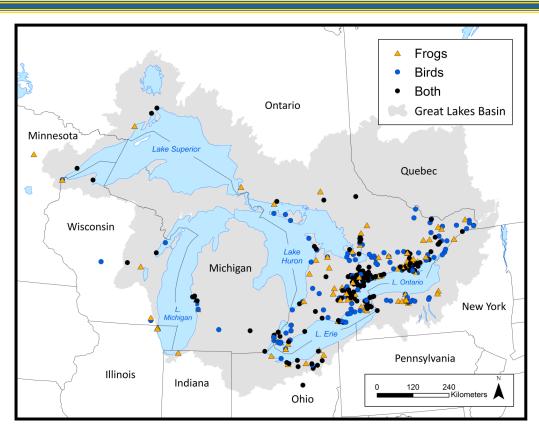


Great Lakes Marsh Monitoring Program Surveys From 1995 to 2019

How are birds and frogs doing?

The latest trends show that populations of 8 of 18 (44%) marsh-associated bird species significantly declined between 1995 and 2019, and 1 of 8 (13%) marsh-associated frog species significantly declined (see page 4). On the up side, 6 of 18 (33%) bird species, including the endangered Least Bittern (hooray!), and 3 of 8 (38%) frog species significantly increased. These trends tell us how populations change over many years. To get a sense of year-to-year differences, take a look at the annual abundance indices for birds (see page 5) and occupancy for frogs (see page 6).





Great Lakes Marsh Monitoring Program Routes Surveyed in 2019

Accomplishments

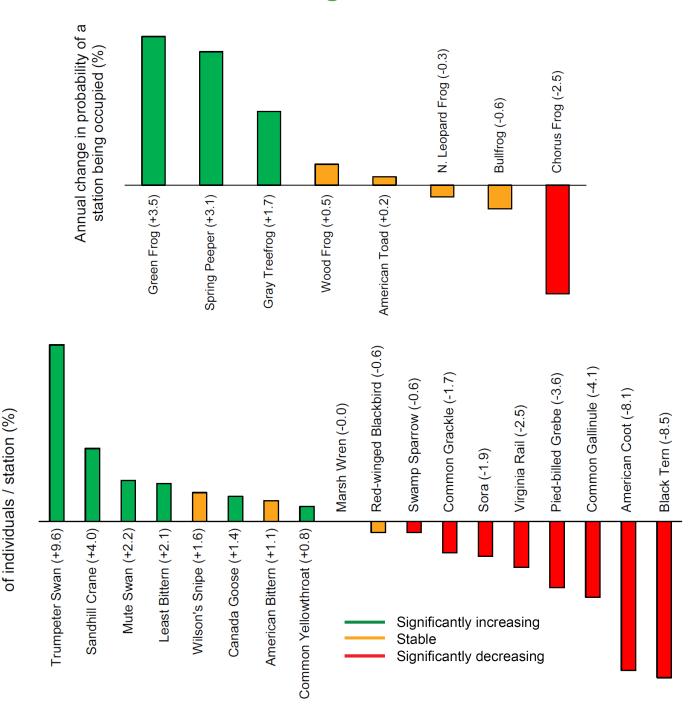
With the tremendous effort of volunteer surveyors and financial assistance from supporters (see last page), we have accomplished many important activities and outcomes over the past year. These include presentations, filling requests for raw data, and reports, which summarize and draw conclusions from your hard-earned data. We also responded to media inquiries (continued on page 7).



Windsor/Essex Great Lakes Marsh Monitoring Program Training Session March 2020



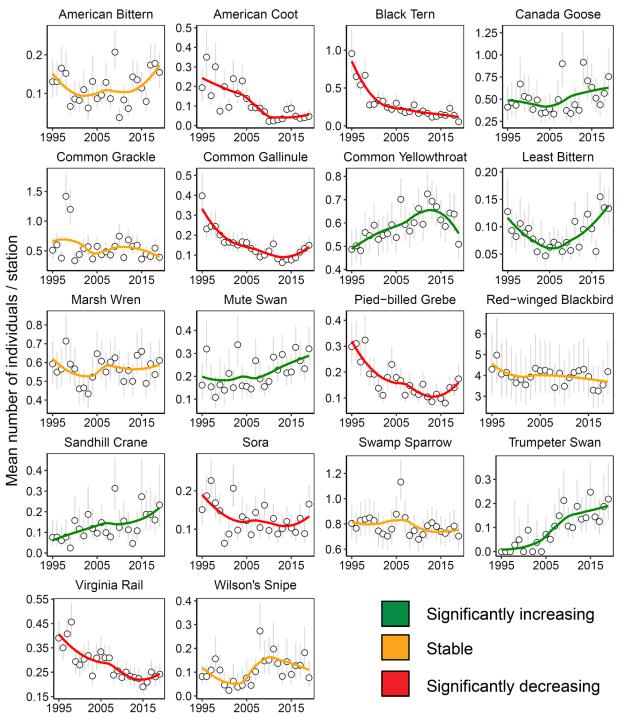
Great Lakes Marsh Monitoring Program Trends for Birds and Frogs 1995 – 2019



Annual change in mean number



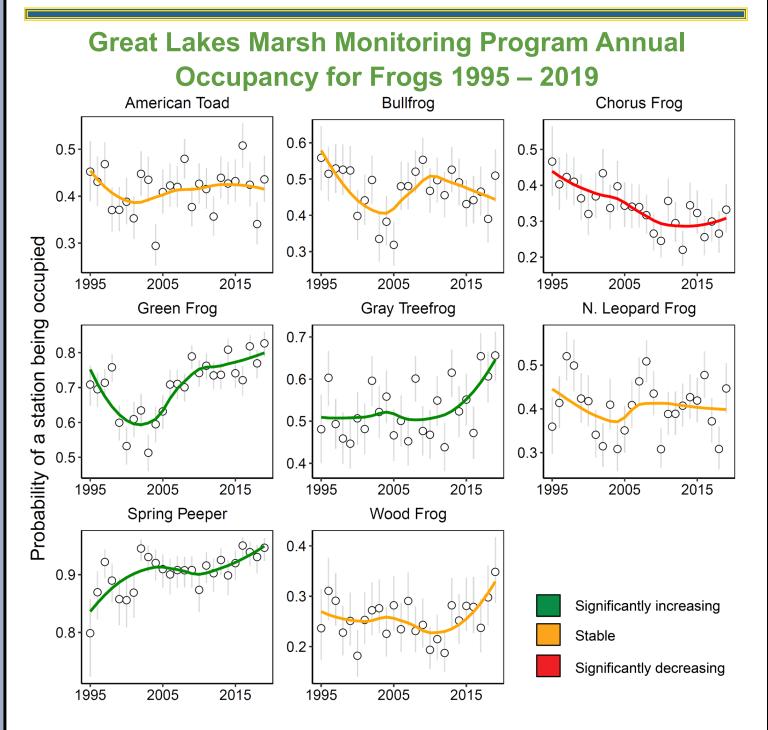
Great Lakes Marsh Monitoring Program Annual Abundance for Marsh Birds 1995 – 2019



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Need Marsh Monitoring Program Data for a research project? Would you like a copy of the information that you have collected? See the download tab at <u>birdscanada.org/birdmon/</u>.

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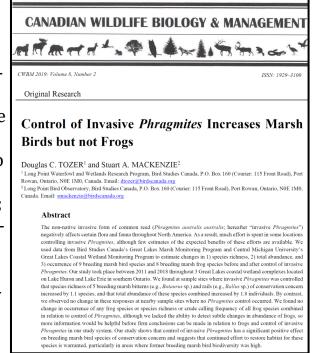


Presentations:

- **Conserving lakes and wetlands through waterbird citizen science.** Lake Links, Perth, ON.
- Applied waterbird conservation. Western University, London, ON.
- **Control of invasive** *Phragmites* **increases marsh birds but not frogs.** Research and Conservation Conference, Long Point World Biosphere Reserve Foundation, Simcoe, ON; Annual Meeting, Ontario Invasive Plant Council, London, ON.
- Great Lakes Marsh Monitoring Program: recent research and protocol developments. Online webinar hosted by Birds Canada, available here: <u>https://youtu.be/</u><u>GlLtc9wRa6o?t=31</u>
- Windsor /Essex Great Lakes Marsh Monitoring Program Training Session. Hosted by City of Windsor and Essex Region Conservation Authority.

Data:

We supplied the following partners with your hardearned data to achieve and advance wetland conservation: Credit Valley Conservation Authority; Ducks Unlimited Canada; Environment and Climate Change Canada; Nature Conservancy of Canada; Niagara River Remedial Action Plan; Ontario Nature; Ontario Ministry of the Environment, Conservation and Parks; Ontario Natural Heritage Information Centre; Parks Canada; Quinte Field Naturalists; Royal Botanical Gardens; Raisin Region Conservation Authority; US Environmental Protection Agency; and various consultants for environmental assessments and students for research projects.



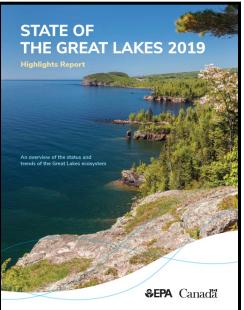
Reports:

Control of invasive *Phragmites* **increases breeding marsh birds but not frogs**. Published in *Canadian Wildlife Biology and Management*, and based in part on GLMMP data, this analysis shows that control of invasive *Phragmites* or Common Reed has a significant positive effect on marsh-breeding bird species of conservation concern. The study is being used to expand habitat restoration efforts for these species.



Species-habitat relationships and priority areas for marsh-breeding birds in Ontario. Published in the *Journal of Wildlife Management*, and based entirely on GLMMP data, this study identifies where the best places are for future wetland conservation work that benefits marsh-breeding birds throughout southern Ontario. The analysis is being used to restore and protect additional wetlands in the region.

State of the Great Lakes 2019. Published by the Governments of Canada and the United States under the Great Lakes Water Quality Agreement, and based in part on GLMMP data, this document provides an overview of the status and trends of numerous components of the Great Lakes ecosystem. Across all of the Great Lakes, marshbreeding bird and frog species—when considered together as a group—are currently "fair" and are improving over time. Although some species—when considered individually—are decreasing over time, as we show in this newsletter. The information is being used to attract further investment in restoring and protecting Great Lakes wetlands, especially for declining species.



Assessing terrestrial wildlife populations in the Toronto and Region Area of Con-

cern. Published in the *Journal of Great Lakes Research*, and based in part on GLMMP data, this paper shows that marsh bird and frog populations in the Toronto area fluctuate within a range similar to populations in a nearby but less urbanized watershed. The results are being used to further conserve wildlife and their habitats in Toronto, and will encourage similar conservation efforts in other large cities.



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Learning Resources Free Online Bird Identification Resources

Stay Tuned for the Ontario Breeding Bird Atlas – 3

Data collection for the Ontario Breeding Bird Atlas-3 starts in January 2021. Volunteer Citizen Scientists will count and record the presence of breeding birds across Ontario – from the south to the north – for five years. Atlas-3 is a partnership between Birds Canada, Canadian Wildlife Service (Environment and Climate Change Canada), Ministry of Natural Resources and Forestry (Government of Ontario), Ontario Field Ornithologists, and Ontario Nature. Atlas-3 will be a grand adventure for the province's birders! Anyone can participate! Birders make it possible! If you are interested in participating in the breeding bird atlas please:

- \Rightarrow Stay tuned to <u>birdsontario.org</u> for further details
- ⇒ Wait for registration to open then register to participate and download the NatureCounts Atlas data entry and point count apps
- ⇒ Refresh your skills and build your knowledge using the online resources recommended at <u>birdsontario.org/</u> <u>atlas/learning.jsp</u>

Please remember that your Marsh Monitoring Program data will be incorporated into the atlas.



Look for this Canada Jay to find the NatureCounts/ breeding bird atlas app at the App Store or on Google Play.



Marsh Monitors in Action!



borealmama The Sora is a secretive marsh bird that you will hear before you are lucky enough to see it. Their call is a loud descending whinny sounds like a crazy bird.

#sora #ontariobirds #birdsofontario #birdwatching #birdstudiescanada #audubonsociety #oh_canada_ #sharecangeo #marshonitoring



Liked by kimtoewsphotography and 88 others

Add a comment..





Sandra C Hawkins, Hamilton Region Ontario An **#fieldnote** from **#MMPSurvey** participant Sandy: "Glad I carried my phone on my morning stroll today". Learn more about the Great Lakes Marsh Monitoring Program at <u>birdscanada.org/gl_mmp</u>



Beth Goeppinger, Michigan



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Click here for the 2020 #MMPSurvey Social Media Photo!

Our little friends are slowly returning! I was talking to a colleague through Skype yesterday and I'm like "hear that deafening noise behind your house? Those are Chorus Frogs!" Corina Brdar, Bay of Quinte, Ontario When Karen K checked out her #MMPSurvey site last weekend this American Coot was checking it out as well. #CitizenScience #wetlands #habitat birdscanada.org/gl_mmp



Liz Smith, Waterloo, Ontario

The Marsh Monitoring Program has given me some memorable moments. Without it I would be less likely to hike in the gloom of twilight seeing the stars emerge or the flicker of fireflies. I've enjoyed hearing the calls of woodcock and cuckoos, the startle of deer, and of course the frogs and toads. Fred Arnold New York State





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Visit the volunteer portal at www.birdscanada.org/birdscience/gl_mmp

For all your Marsh Monitoring Needs



Great Lakes Marsh Monitoring Program, Birds Canada P.O. Box 160, Port Rowan, Ontario, Canada NOE 1M0

Phone: 888-448-2473 ext. 124 Email: volunteer@birdscanada.org Web: <u>birdscanada.org/gl_mmp</u>

Launched in 1995, the Great Lakes Marsh Monitoring Program is:

- A bi-national, long-term monitoring program developed by Birds Canada and its many partners;
- Built on the commitment of individuals, foundations, governments, and non-governmental organizations that work in partnership towards effective conservation;
- A coordination of skills, interests, and stewardship of hundreds of citizens across the Great Lakes basin.

Contact Kathy Jones, volunteer@birdscanada.org, for more information about the Great Lakes Marsh Monitoring Program and other Birds Canada volunteer opportunities.

Thank-you to all the Great Lakes Marsh Monitoring Program Participants who make this program possible!

The Great Lakes Marsh Monitoring Program is a program of Birds Canada supported by:

This project was undertaken with the financial support of the Government of Canada.

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