

## Longest study of Great Lakes region birds finds populations holding steady

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In the Great Lakes Region, the longest study of bird populations in the region

shows that overall breeding bird populations of many species were stable or increasing between 1995 and 2011. Credit: Larry Sirvio

A new USDA Forest Service report documenting an unprecedented effort to inventory birds in the western Great Lakes region and analyze changes in bird populations over the past quarter of a century found that across a trio of national forests, most birds are doing well in terms of both species diversity and population.

Published as General Technical Report NRS-159, "Analysis of Long-term Forest Bird Monitoring Data from National Forests of the Western Great Lakes Region" describes trends and potential drivers in the abundance of bird [species](#). Gerald Niemi of the University of Minnesota-Duluth's Natural Resources Research Institute and Robert Howe of the University of Wisconsin-Green Bay are lead authors of the report with co-author Brian Sturtevant, a research ecologist with the USDA Forest Service's Northern Research Station. An estimated 700 birders have volunteered their time or worked as paid field researchers to inventory bird species for more than 25 years. The report will serve as a useful reference for forest managers identifying how species respond to forest management and what species need attention.

"Forest Service science is contributing to healthy, sustainable forests that are more productive and, ultimately, produce cleaner air and water," said Tony Ferguson, Acting Director of the Northern Research Station and the Forest Products Laboratory. "Forest birds play a vital role in forest stewardship through seed dispersal and insect control, and this research will be a valuable reference for land managers working to protect critical habitat for forest birds."

In the three national forests covered by the inventory - the Chequamegon-

Nicolet National Forest in Wisconsin and the Superior and Chippewa National Forests in Northern Minnesota - the analysis found overall healthy bird communities that give researchers and policy-makers a degree of optimism. "It paints a picture of fairly healthy bird communities in these forests over two decades of surveys," said Niemi. "It shows that there is tremendous diversity of bird species in the region and emphasizes the importance of national forests to migratory and resident bird species."

The report documents population trends for forest birds within each of the national forests and the national forests combined; summarizes the distribution, relative abundance, and habitat use of species occurring regularly within the national forests; provides an ecological context and discusses management implications of the observed patterns both generally and specifically for selected species; and identifies gaps in knowledge and future issues of concern for forest birds of the region.

"One of the most valuable aspects of this report is that it provides finer-scaled data on bird population trends than other long-term monitoring efforts to date," Sturtevant said. "In addition to giving natural resource managers a big-picture view of [birds](#) in the Great Lakes region, it also shows numbers and changes at a national forest level."

The results of the trend analyses indicate that overall breeding bird populations of many species have been stable or increasing over the past 17 years. These results are positive reflections of forest condition, with only a few species showing a declining trend over this recent period of time. The analysis demonstrates that boreal [bird species](#) like spruce grouse, gray jay, olive-sided flycatcher, boreal chickadee, and Connecticut warbler are rare or uncommon today in the three national forests inventoried. Results suggest that these species may have declined at least locally during the last two decades.

Birders were a vital part of the unique inventory effort. "The regional inventory effort began with the Nicolet Bird Survey 30 years ago," Howe said. "Some of the participants in that survey have been part of the project since its beginning."

Provided by USDA Forest Service

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