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# NWRC Research Scientists: Dr. Brian E. Washburn

Last Modified:

Dr. Brian E. Washburn is a Research Biologist with USDA APHIS Wildlife Services, National Wildlife Research Center (NWRC) Sandusky, OH, Field Station. Prior to joining NWRC in 2003, Dr. Washburn was a Postdoctoral Fellow at the University of Missouri (MU) where he developed the Wildlife Physiology Laboratory and conducted research studies involving stress and reproductive physiology of numerous wildlife taxa.

In his current position at NWRC, Dr. Washburn works extensively with colleagues and partners from Wildlife Services research and operations, the U.S. Department of Defense, Universities, civilian airports, state wildlife agencies, nongovernment organizations, and private industry. His research involves basic and applied wildlife ecology studies that provide a better understanding of wildlife movement patterns (e.g., migration ecology), foraging ecology, habitat management, land-use practices, and ecology of wildlife within urban ecosystems. Findings from his research are used to reduce wildlife hazards within and near airport environments. In addition to his appointment with NWRC, Dr. Washburn is an adjunct professor at the University of Missouri, Michigan State University, and North Carolina State University.

## Research Project

## [Understanding, Preventing, and Mitigating the Negative Effects of Wildlife Collisions with Aircraft, Other Vehicles, and Structures](#)

The goals of this project are to understand and quantify animal sensory ecology and antipredator behaviors to reduce animal-vehicle and structure collisions, the role of sUAS relative to wildlife monitoring and hazing, and airspace and land cover use on and near airports by birds recognized as hazardous to aviation safety.

[Learn More](#)



## **Current Research**

- Assessing resident Canada goose movements using satellite telemetry
- Development and use of 3-dimensional animal movement models
- Quantifying bald eagle use of airport environments
- Ecology of ospreys in the Lower Great Lakes Region
- Management of short-eared owls within airport environments
- Post-translocation movements of red-tailed hawks
- Relocation of American kestrels from airport environments
- Effects of prescribed burning on airfield vegetation and white-tailed deer use

## International Experience

- South Africa (African elephant stress physiology)

## Publications

[View Dr. Brian E. Washburn's publications.](#)

## Education

- Ph.D., Animal Sciences, Ecological relationships among tall fescue, native warm-season grasses, and Eastern cottontail rabbits, University of Kentucky
- M.S., Wildlife and Fisheries Science, Establishment of native hardwoods on reclaimed mined lands in the bituminous coal region of Pennsylvania, Pennsylvania State University
- B.S., Environmental and Forest Biology, State University of New York College of Environmental Science and Forestry
- A.A.S., Biological Technology, State University of New York College of Agriculture and Technology at Cobleskill

## Contact

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