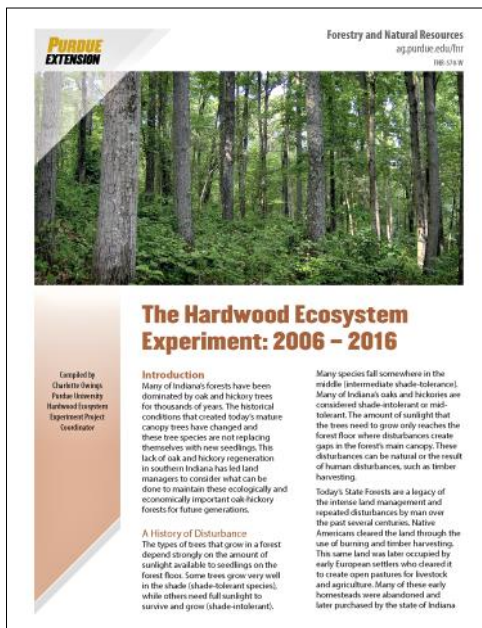




# NEW HEE EXTENSION PUBLICATION!

Want to know what researchers associated with the Hardwood Ecosystem Experiment have been finding ten years into the project?

You can now read about some of the early findings regarding the effects of various forest management methods on a variety of animal species that have been studied as part of the HEE. These findings are accessible in a document available for FREE on the HEE website (<https://heeforeststudy.org/publications/>) or on the Purdue Extension website ([https://mdc.itap.purdue.edu/item.asp?Item\\_Number=FNR-570-W](https://mdc.itap.purdue.edu/item.asp?Item_Number=FNR-570-W)).



## Upcoming Workshop for Woodland Owners

From June 7th-9th, 2019 a new workshop will be held in Morgan-Monroe State Forest for forest landowners who are interested in wildlife and forest management!

The goal of the workshop is to provide hands-on experiences, knowledge, and resources to private landowners on how they can meet their wildlife objectives for their land. Part of the workshop will involve a tour of some of the HEE sites and the sharing of early findings from the study.

A copy of the announcement flyer with more information about this opportunity and a link to the application can be found by visiting [https://purdue.ca1.qualtrics.com/jfe/form/SV\\_bOSUtZutKZ4Zpnn](https://purdue.ca1.qualtrics.com/jfe/form/SV_bOSUtZutKZ4Zpnn)

*D. Nelson*

## What's happening in the field in 2019?

It is going to be a busy field season at the HEE! Some of the projects taking place include:

- Breeding bird surveys
- Bat acoustic monitoring and mist-netting
- Cerulean Warbler surveys
- Earthworm sampling
- Fungi sampling
- Moth sampling
- Spring and Fall salamander surveys
- Small mammal surveys
- & More!

## Congrats Keifer!

Congratulations to Keifer Titus who successfully defended his Master's thesis at Ball State University. Keifer's thesis is entitled "Understanding the ecological impacts of timber harvest techniques on the bat community in a Midwestern hardwood forest: occupancy analyses using bio-acoustics". Keifer was advised by HEE Researcher Dr. Tim Carter.

Congratulations Keifer!

## New HEE Graduate Student

### Alison Ochs



Alison Ochs is a new PhD student at Purdue University working under HEE Researchers Mike Saunders and Rob Swihart. Her project involves studying the effects of timber management, including prescribed fire, on terrestrial salamanders at the HEE. Alison is

originally from Arizona by way of Massachusetts, and looks forward to learning more about Indiana's forests and wildlife.

Welcome Alison!

## New HEE & HEE-Related Publications

- **Stanis, S.** and **M.R. Saunders.** 2018. Long-term overstory tree quality monitoring through multiple prescribed fires in eastern deciduous forests. In: Kirschman, Julia E., comp. 2018. *Proceedings of the 19th biennial southern silvicultural research conference*. e-Gen. Tech. Rep. SRS-234. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station:355-362.
- Kissick, A. L., **Dunning, J. B.**, Fernandez-Juricic, E. and **Holland, J. D.** 2018. Different responses of predator and prey functional diversity to fragmentation. *Ecological Applications*. doi:[10.1002/eap.1780](https://doi.org/10.1002/eap.1780)
- **Islam, K.** 2018. Conserving the rare Cerulean Warbler in Indiana Forests. *The Indiana Woodland Steward*, 27(2):6-7. <http://www.inwoodlands.org/conserving-the-rare-cerulean/>
- **Ruhl, P.J., Delancey, C.D.,** and **J.B. Dunning Jr.** 2018. Roost preference, postfledging habitat use, and breeding phenology of adult female Worm-eating Warblers (*Helmitheros vermivorum*) on the breeding grounds. *The Wilson Journal of Ornithology.*, 130(2): 397-409.

## HEE Fall Field Tours

It was a busy fall season for HEE Field Tours!

### Indiana State Legislator Tour

Last September, Indiana State Legislators were invited to tour some of the HEE research areas and learn about ongoing research at the Hardwood Ecosystem Experiment. HEE Researchers shared their early findings regarding forest management impacts on wildlife and plants and took the group to a few of the HEE research areas.

### Indiana Audubon Society

Also in September, members of the Indiana Audubon Society had the opportunity to go out birding in some of the HEE field areas with Field Coordinator Jeff Riegel and HEE Researcher Dr. Barny Dunning. Attendees got to go birding in the HEE treatment and control sites.

### Natural Areas Conference

In October, HEE Researchers and staff led a tour of a Hardwood Ecosystem Experiment for the Natural Areas Conference held in Bloomington, IN. During the tour, participants had the opportunity to visit different HEE treatment areas and hear from a variety of researchers about their studies.



*HEE Researcher Dr. Joy O'Keefe talking to a group about her research on forest management effects on bats (Photo credit: Tim Thompson)*



*HEE Researcher Dr. Jeff Holland talking to a field tour group about beetle findings from the HEE (Photo credit: Charlotte Owings)*

Interested in scheduling a tour of the HEE for your group? Please contact the HEE Project Coordinator at [freemac@purdue.edu](mailto:freemac@purdue.edu)



### Hardwood Ecosystem Experiment

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