Dr. Luke Dodd
Assistant Professor

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Contact Information

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Expert Area: Wildlife Ecology

Courses Taught

BIO 532 / 732. Conservation Biology. An examination of the principles and practices of conserving global biological diversity. Emphasis is placed on causes, consequences, and rates of extinction. Focus is given to the application of philosophical, biological, sociological, and legal principles to the conservation of genes, species, and ecosystems.

WLD 381. Principles of Wildlife Management. This course encompasses the basic principles of wildlife management and their application to current management issues.

Research and Mentoring

My research career has focused on understanding the impact land management has on bats and their insect prey. Given the global ubiquity and ecological significance of insects, as well as the primary role that predators such as bats play in depredating insects, these trophic linkages are important and in need of increased depth and breadth of study. My students pursue a wide variety of field and lab-based projects. I am interested in conducting research with undergraduate and graduate students alike. If you have an interest in my lab's work, or would like to inquire about joining the lab, feel free to call or email!

Recent Publications

Dodd, L.E., and S.A. Fulton. 2014. An assessment of bat activity and nocturnal insect occurrence across the hydric habitats of McConnell Springs and Veteran's Park. Report for the Lexington-Fayette Urban County Government. Hard copies available at McConnell Springs Natural Area, Lexington, KY. 39 pp.

Dodd, L.E., and Z. Weese. 2014. An assessment of the impact of an invasive woody plant (*Lonicera maackii*) on bat and insect occurrence at Lower Howard's Creek. Report for the Clark County / Winchester Heritage Commission and the Kentucky Heritage Land Conservation Fund.

Hard copies available from the Clark County / Winchester Heritage Commission. Winchester, KY. 27 pp.

Lacki, M.J., L.E. Dodd, N.S. Skowronski, M.B. Dickinson, and L.K. Rieske. 2014. Fire management and habitat quality for endangered bats in Kentucky's Mammoth Cave National Park during the swarming and staging periods: predator-prey interactions and habitat use of bats threatened by White-Nose Syndrome. Final Project Report (JFSP Project Number 10-1-06-1). June 26, 2014. Lexington, KY. 104 p.

Dodd, L.E., and L.F. Faust. 2014. Seasonal occurrence and habitat affiliations of Lampyridae at Mammoth Cave National Park, Kentucky. Journal of the Kentucky Academy of Science, In Press.

Dodd, L.E., and L. K. Rieske. 2014. Variation in nocturnal Lepidoptera and other insects in a second-growth forest. Journal of the Kentucky Academy of Science, In Press.

Dodd, L.E., M.A. Floyd, and D.A. Etnier. 2013. Seasonal occurrence and habitat affiliations of Trichoptera at Mammoth Cave National Park. Proceedings of Mammoth Cave National Park's 10th Research Symposium (ed Trimboli, S.R.). Electronic copy available from the Barren River Imaginative Museum of Science's website. Pp. 44-49 (of 207 p).

Dodd, L.E., N. S. Skowronski, M. B. Dickinson, M. J. Lacki, and L. K. Rieske. 2013. Using LiDAR to link forest canopy structure with bat activity and insect occurrence: preliminary findings. Proceedings of Mammoth Cave National Park's 10th Research Symposium (ed Trimboli, S.R.). Electronic copy available from the Barren River Imaginative Museum of Science's website. Pp. 50-57 (of 207 p).

Dodd, L.E., Z. Cornett, A. Smith, and L.K. Rieske. 2013. Variation in lepidopteran occurrence in hemlock-dominated and deciduous-dominated forests of Central Appalachia. Great Lakes Entomologist, 46: 1-12.

Dodd, L.E., E.G. Chapman, J.D. Harwood, M.J. Lacki, and L.K. Rieske. 2012. Identification of prey of *Myotis septentrionalis* using DNA-based techniques. Journal of Mammalogy, 93: 1119-1128.

Dodd, L.E., M.J. Lacki, E.R. Britzke, D. A. Buehler, P.D. Keyser, J.L. Larkin, A.D. Rodewald, T.B. Wigley, P.B. Wood, and L.K. Rieske. 2012. Forest structure affects trophic linkages: how silvicultural disturbance impacts bats and their insect prey. Forest Ecology and Management, 267: 262-270.