### Accepted Manuscript

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C. Baruzzi, D.P. Chance, J.R. McCollum, G.M. Street, C. Brookshire, M.A. Lashley

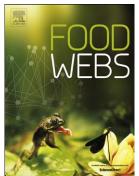
 PII:
 S2352-2496(17)30014-9

 DOI:
 doi:10.1016/j.fooweb.2017.06.003

 Reference:
 FOOWEB 65

To appear in:

Received date:16 May 2017Revised date:18 June 2017Accepted date:20 June 2017



Please cite this article as: Baruzzi, C., Chance, D.P., McCollum, J.R., Street, G.M., Brookshire, C., Lashley, M.A., Invited cleaners or unsolicited visitors: Eastern phoebes use white-tailed deer to forage, (2017), doi:10.1016/j.fooweb.2017.06.003

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## ACCEPTED MANUSCRIPT

#### Invited cleaners or unsolicited visitors: eastern phoebes use white-tailed deer to forage

Baruzzi C<sup>1</sup>, Chance DP<sup>1</sup>, McCollum JR<sup>1</sup>, Street GM<sup>1</sup>, Brookshire C<sup>2</sup>, Lashley MA<sup>1,3</sup>

<sup>1</sup>Department of Wildlife, Fisheries, and Aquaculture, Mississippi State University, Box 9690,

Mississippi State, Mississippi 39762, USA

<sup>2</sup> College of Veterinary Medicine, Mississippi State University, Box 6100, Mississippi State, MS

39762, USA

<sup>3</sup>Corresponding author, email: marcus.lashley@msstate.edu

#### ABSTRACT

The eastern phoebe (*Sayornis phoebe*) is an insectivorous bird that sometimes consumes ectoparasites. Previous accounts indicate that phoebes may indirectly benefit mammals by consuming parasites found in vegetation reducing the probability of tick encounters. As part of an experiment quantifying community-level vertebrate interactions relative to plant community structure, we continuously monitored vertebrate communities with camera traps in a loblolly pine forest in Mississippi (USA). We observed direct interactions between eastern phoebe and white-tailed deer (*Odocoileus virginianus*) where phoebes perched and actively foraged for parasites on deer and captured insects flushed from vegetation by deer. Similar interactions between ungulates and birds have been reported around the globe but whether the interaction is commensalistic or mutualistic has yet to be determined.

KEY WORDS: mutualistic interactions, cleaning mutualism, commensalism, *Sayornis phoebe*, *Odocoileus virginianus*, insectivorous birds

GRAPHICAL ABSTRACT

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