

**Permit 2018-005**

Name:

Max Headlee

Department or Organization:

Biology

Email Address:

[mrh160@zips.uakron.edu](mailto:mrh160@zips.uakron.edu)

Are you requesting renewal of a previously approved permit applicaton?

No

Type of activities at The University of Akron Field Station and Bath Nature Preserve  
Research

Title of project or class name and course number:

Wasp interaction with spider webs

Date/Dates requested:

April 15, 2018 - October 31, 2018

Number of people in group:

1

I am requesting permission to use a Research Area.

Yes

I am requesting permission to use a Sensitive Area.

No

I am requesting permission to use areas outside of the designated Research or Sensitive Areas.

No

I would like to use the Martin Center for Field Studies and Environmental Education for this prop...

No

Will the activity involve destructive sampling/collecting?

Yes

Which Research Areas?

18 Acres

Beefy's Woods

Garden Pond

Grandview Alley

Round Top

South Woods

Please explain how the material will be collected (including equipment), and an estimate of how m...

Specimens will be collected using an entomological net. Honey sprayed on vegetation and light sources (for nocturnal collection) will also be utilized to increase the prevalence of specimens. Nine species of wasps will be collected, and a maximum of 45 individuals will be collected for each species. One species of spider will also be collected, with a maximum of 45 individuals collected.

Provide a brief description of (1) your proposed activities, (2) goals, and (3) impacts of your u...

1. I will be collecting wasps and spiders to study wasp interaction with spider webs. I will set up two screen mesh cages at Bath Nature Preserve. One cage will house live *Chalybion californicum*, a species of mud dauber wasp. The other cage will be the site of behavioral trials of wasps escaping spider webs. After this, specimens will be taken to the University of Akron for further study.

2. My goal is to collect enough specimens and data for my master's thesis.

3. Wasps collected in this study will not be reintroduced to the field, as they will be killed as a part of my procedure. Each species of wasp (*Chalybion californicum*, *Sceliphron caementarium*, *Polistes fuscatus*, *Ophion* spp., *Scolia dubia*, *Bicyrtes quadrifasciatus*, *Tachypompilus ferrugineus*, *Isodontia mexicana*, and *Myzinum* spp.) will provide a maximum of 45 individuals. One species of spider, *Larinioides cornutus*, will also be collected. These specimens will also not be reintroduced, and up to 45 individuals will be collected. The ecological impact of this collection should be minimal.

By checking this box, I agree to the above terms and state that all of the above information is c...

I agree