Permit 2024-006

Name:
Morgan Hughes

Department or Organization:
The University of Akron

Email Address:
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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:
ASSESSMENT AND COMPARISON OF THE EFFECTS OF TWO EXOTIC ANTHIDIUM SPECIES ON OHIO BEE FORAGING

Date/Dates requested:
May 15-September 15

Number of people in group:
1-3

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...
Yes

Will the activity involve destructive sampling/collecting?
Yes

Which Research Areas?
18 Acres
Garden Pond
Grandview Alley
Round Top

Please indicate any preparation or set-up you will need in the Martin Center for Field Studies an...
None

Please explain how the material will be collected (including equipment), and an estimate of how m...
Lethal insect collections will be performed using hand nets, insect vials, kill jars, and potentially cooling equipment (small cooler with ice). Insects collected are likely to number fewer than 100.

Provide a brief description of (1) your proposed activities, (2) goals, and (3) impacts of your u...
Proposed Activities: Observational assessments of foraging (native bee) and aggressive (invasive bee) behaviors, consisting of timed observations in 15-25cm^2 sections of suitable flower patch. Video footage and photographs of bees and flowers may be taken during observation periods. Some specimens may be temporarily captured for identification and released. A small number of voucher specimens would be lethally collected for verification purposes. Temporary flags or tags may be placed to mark site locations. Research party would consist of 1-3 observers.

Goals: We would like to evaluate the impact of two species of invasive bee (genus Anthidium) on Ohio's native bee community by examining the difference in foraging behaviors when the Anthidiums are present and absent. Males of this genus often hold and defend territories (flower patches) from other insects by chasing and attacking intruders. These behaviors may prevent native bees from accessing important food sources, and previous evidence suggests that wool-carder presence may act as a deterrent to other foraging bees.

Impacts: The majority of this project is minimally invasive and should not disturb the habitat outside of specimen collection, aside from the disturbance from walking through vegetation. Insect specimens will be collected sparingly to minimize the impact on the bee community.

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