

Permit 2026-004

Name:

Adam Baker

Department or Organization:

Davey Institute (Davey Tree)

Email Address:

adam.baker@davey.com

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:

Predation related to environmental cues using artifical larvae

Date/Dates requested:

May 2026-September 2026

Number of people in group:

2

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?

No

Which Research Areas?

Please indicate any preparation or set-up you will need in the Martin Center for Field Studies an...

No set-up needed

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

(1) To assess predation of monarch butterfly larvae in relation to environmental cues (olfactory, visual, size, and placement) by analyzing indentions left by predators on artificial caterpillar models. (2) To determine if cues (such as damaged leaves, frass/plant volatile odors, size or placement) influence attack rates by specific groups of predators (avian, arthropod, mammalian). (3) This study will provide another layer of information to the growing pool of knowledge surrounding predation dynamics of monarch butterflies, an imperiled species of conservation concern. We plan to publish this study in a peer-reviewed journal and engage in public outreach events. Here is a link to our previous study at the Akron Field Station at the Bath Nature Preserve:

<https://www.nature.com/articles/s41598-025-07516-2>

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

I agree