

Walnut Canyon National Monument

Insect Survey Project: (Study: WACA-00053 and Permit: WACA-2019-SCI_0001)

Personal Services Contract

Date of Report: March 22, 2022

Tasks Completed:

1. We mounted, labelled, databased, and prepared for imaging an additional 149 insect specimens from Walnut Canyon National Monument.
2. Specimens were imaged using both a stereomicroscope imaging system for small specimens and a copy stand imaging system for larger specimens.
3. Individual labels with unique WACA numbers were imaged and associated with specimens.
4. Uncommon species were posted to BugGuide.net for aid in expert identification to the lowest possible taxonomic level.
5. Image database and metadata are viewed on an academic, open-source website: Ecdysis (See figures below).
6. All insect display drawers, specimen trays, and storage containers are compliant with NPS curation standards.
7. All specimen curations including metadata on labels is compliant with Darwin Core Standards (DwC).

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Hyperlinks to Walnut Canyon National Monument collections in Ecdysis:

Main Walnut Canyon page - [Ecdysis Portal Northern Arizona University - Walnut Canyon National Monument Collection \(asu.edu\)](https://serv.biokic.asu.edu/ecdysis/content/dwca/NAU-WACA)

Taxon Distribution - [Ecdysis Portal Northern Arizona University - Walnut Canyon National Monument Collection \(asu.edu\)](https://serv.biokic.asu.edu/ecdysis/content/dwca/NAU-WACA)

Click on the number (1) hyperlink following the Family grouping to view the full species detail.

Poecilognathus example - [Ecdysis Portal Detailed Collection Record Information \(asu.edu\)](https://serv.biokic.asu.edu/ecdysis/content/dwca/NAU-WACA)

DwC – Archive Access Point - [https://serv.biokic.asu.edu/ecdysis/content/dwca/NAU-WACA DwC-A.zip](https://serv.biokic.asu.edu/ecdysis/content/dwca/NAU-WACA_DwC-A.zip)

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ecdysis

A portal for live-data arthropod collections

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[Home](#) >> [Collection Search Page](#) >> [Collection Profile](#)

Northern Arizona University - Walnut Canyon National Monument Collection (NAU-WACA)

Northern Arizona University Walnut Canyon National Monument Collection (NAU-WACA) is an important collection of both specimens and associated images of arthropods within Walnut Canyon National Monument on the Colorado Plateau. The goal of the WACA collection, on behalf of the National Park Service and NAU, is to represent material relevant to ecologists, taxonomists, conservationists and the public. Mark Szydlo Biologist for the National Park Service, and Gary Alpert, Biologist at Northern Arizona University have been contributing specimens for curation into this collection.

Contacts: Gary D. Alpert, garydalpert@gmail.com

Contacts: Mark Szydlo, mark_d_szydlo@nps.gov

Collection Type: Preserved Specimens

Management: Live Data managed directly within data portal

Global Unique Identifier: d47171e9-de69-4b95-b3ea-8f05b5ec57ad

DwC-Archive Access Point: https://serv.biokic.asu.edu/ecdysis/content/dwca/NAU-WACA_DwC-A.zip

Digital Metadata: [EML File](#)

Usage Rights: [CC0 1.0 \(Public-domain\)](#)

Collection Statistics

- 564 specimen records
- 535 (95%) georeferenced
- 389 (69%) with images (1,514 total images)
- 139 (25%) identified to species
- 150 families
- 295 genera
- 143 species
- 130 total taxa (including subsp. and var.)

Extra Statistics

- [Show Geographic Distribution](#)
- [Show Family Distribution](#)

Click on “Show Family Distribution” to see all individual insect photos and data records.