



Broward County Butterfly Chapter of the North American Butterfly Association

Project Monarch Health

Barbara DeWitt, Broward County Project Monarch Health Program Coordinator
badewitt@gmail.com

Cynthia Chambers, Broward County Project Monarch Health Program Coordinator
cschambers53@yahoo.com.

Introduction to the Florida Program:

The Florida Monarch Butterfly Tagging Program has been combined with the Project Monarch Health Program in Broward County.

This is a citizen-science project taking place in Broward County Parks (Broward County Parks with permit only) and residential gardens.

Tagging and OE sampling of wild-caught butterflies or butterflies raised in a cage from egg, larvae and pupae.

Our goals are to: determine if our assumed, non-migrating Monarchs/Queens remain local or migrate; track residential longevity and survival rates; monitor their health through OE parasite testing and make the data available to researchers.

Our tagging/sampling program is facilitated by the tagging program in Southwest Florida. The Southwest Florida Monarch Program was started by Nick Bodven, a citizen-scientist who initiated this free program.

In Broward County you can order tags and OE sampling kits Free

Email Nick Bodven @ monarchtags@gmail.com.

Please include your name, street address, email address and telephone number and that you will be tagging/sampling in Broward County. When you receive your tags and OE sampling kit, please discard the tagging sheet in the kit and replace with the OE Broward County Project Monarch Health Form on our website.

Getting Started:

- a. Have your tagging and sampling supplies ready, including the datasheet, index cards, and clear, circle stickers. Use one datasheet and set of index cards for each street address including lat/long.
- b. Purchase a net if you are catching adults.
- c. Purchase disposable gloves.
- d. Use paper towels as a placemat.
- e. Use a toothpick to pick up tag.
- f. Use a flat hairclip on wings to keep Monarch/Queen still.
- g. Use index cards and write your name, phone, email address and "Bodven Team" on the reverse side of the index card from the sample stickers.

Instructions:

- a. Catch butterfly with net, or use a butterfly cage-raised from egg, larvae, pupae after the wings have dried for at least 2-3 hours.
- b. Remove the butterfly from net or cage. Hold the wings shut.
- c. Determine and record on the datasheet the sex of the butterfly: male or female.
- d. Place the Monarch/Queen tag on mitten-shaped, discal cell on the underside of the right hindwing.
- e. Tape the underside of Monarch/Queen's abdomen with clear sticker to collect an OE sample.
- f. Place OE clear sticker on an index card. Write the Monarch/Queen tag number next to sticker.
- g. Release the butterfly.
- h. Fill out the printed datasheet with the additional data requested.
- i. When you have tagged and OE tested 15 to 20 butterflies, mail your Monarch/Queen OE Sampling Datasheet and OE samples on index cards to Odum School of Ecology at the address below.
- j. Take a photo of each Monarch/Queen with tag attached. (optional for possible future research)

Mail Florida Project Monarch Health Form and OE Samples on index cards to:

Project Monarch Health
UGA, Odum School of Ecology
140 East Green Street
Athens, GA 30602-2202

The samples you send will be observed for parasites at the University of Georgia and the results will be shared with you by email. Your data will be used as part of the long-term data set on monarchs/queens and their parasites.

Broward County Parks Permit Only:

For more information, on Permits and Training in the Broward County Project Monarch Health Program bcbcm@gmail.com.

Areas Under Permit: Fern Forest, Helene Klein Pineland Preserve, Hillsboro Pineland, Long Key, Markham Park, Miramar Pineland, Plantation Heritage, Pine Island Ridge, Saw Palmetto, Secret Woods, Treetops, Quiet Waters, West Creek Pineland (33A), West Lake. Find out more about the Parks listed by visiting the www.broward.org/parks. Site.

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