# Texas/Oklahoma Pollinator Project Identification Guide 

Welcome to the Texas/Oklahoma Pollinator Project; and thank you for being a Citizen Science volunteer! The goal of the TOPP is to gather observational data on what plants are most attractive to bees and other pollinators. Based on your observations, we hope to provide good, local data to be used for regional fact sheets, and for efforts to protect and preserve our important pollinator resources.

The data you provide will go into a large database of observations on plant visitation. This identification guide is designed to help ensure that your data is recorded accurately, and that you have the information you need to feel comfortable collecting that data.

Plant identification is critical for the success of this project. It's important that you accurately identify the plants that you observe. If you are unsure of the identity of the plant, ask another expert you trust, or take a picture of the plant and submit with your pollinator observation. Be sure to get close enough to clearly show both leaves and flowers (if possible).

To conduct the study, choose five kinds of plants from any Texas or Oklahoma garden to which you have access (we want to know good and not-so-good plants for bees, so don't worry if you don't see lots of bees on a given plant). Conduct your count within a 2 ft by 2 ft patch of only one kind of flowering plant. For one minute, count and classify every flying insect visiting your patch. Between 10 am - 7 pm is ideal for observing pollinators; but the important thing is to try and be consistent in when you make your counts. Use the paper data sheet provided or enter your data directly into the website using your computer or phone (type in the URL address or, with your phone, scan the QR code on the reverse side of this sheet.) You are welcome to observe more often than once a week, and more than five kinds of plant. Simply choose the level of effort with which you are comfortable.

The patches you choose will bloom and eventually fade. For this reason, feel free to switch patches if blooming has declined. For each observation you make try to estimate how far through the patch has progressed compared to full bloom (less than $25 \%$ in bloom, more than $75 \%$ in bloom, etc.)

You do not have to know exactly what kind of insect you are seeing. The data sheet is coded for general kinds of pollinators (e.g., Large bees, Medium bees, Small green bees, Non-bees, Hover flies etc.). This sheet will help you recognize these categories, including what is meant by Large, Medium, and Small. Also, make sure you know how to tell the difference between a bee, wasp, and fly. Flies often mimic bees or stinging wasps. The pictures on this sheet are designed to help make this easier.

## Pollinator Insect Examples



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