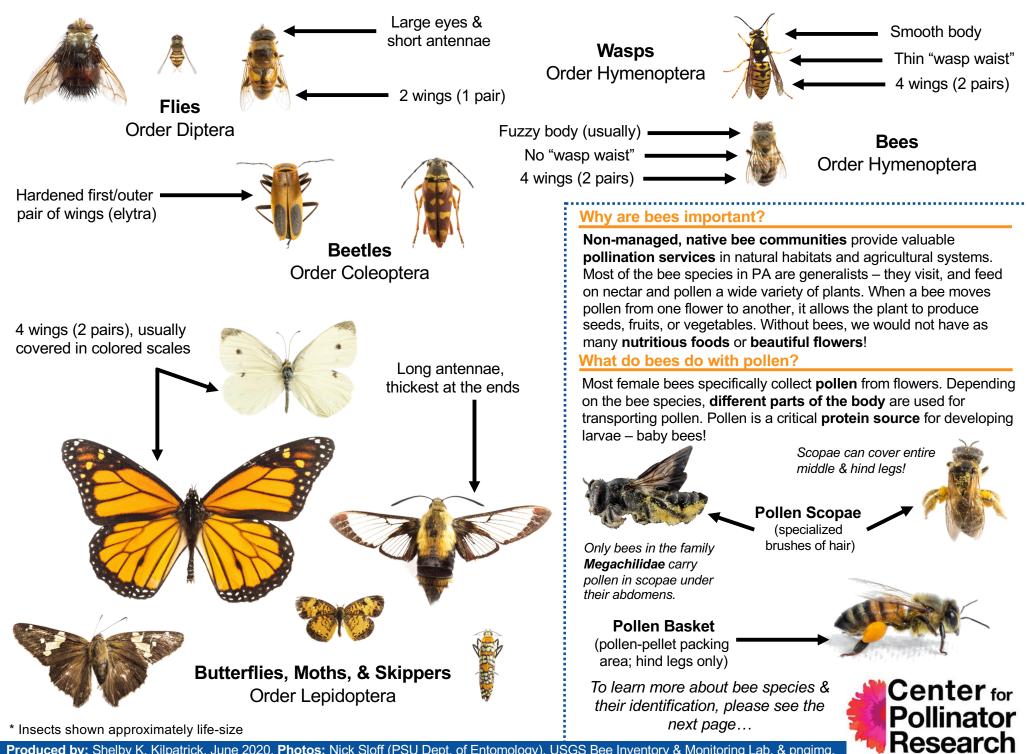
Identifying & Observing Pollinating Insects in Pennsylvania



Produced by: Shelby K. Kilpatrick, June 2020. Photos: Nick Sloff (PSU Dept. of Entomology), USGS Bee Inventory & Monitoring Lab, & pngimg.

Identifying & Observing Bees in Pennsylvania

Introduced to the USA in the 1620s for honey production & crop pollination!

Honey Bee Apis mellifera (Apidae)

Only collects pollen from pumpkin & squash plants, but will visit other plant species for nectar!



Squash Bee Eucera pruinosa (Apidae)

Some species are important pollinators of tree fruits, particularly apples in PA!



Mason Bee Osmia spp. (Megachilidae)



Symbol

Key:

Females cut out & use circle-shaped pieces of leaves to line their nests!

Leaf-cutting Bee Megachile spp. (Megachilidae)

* Bees shown approximately life-size

Social



Mining Bee Andrena spp. (Andrenidae)

Irenidae) Anthidium spp. (Megachilidae)

Wool-carder Bee

How many species of bees are there?

World-wide, there are **20,400+ bee species**. In Pennsylvania, there are **430+ bee species**. Most of the bees in PA are **native**, but some are **non-native**. A few species are also **endangered or threatened**.

Pollen

Scopa

In PA, you can find bees on **all kinds of flowers**! The best times of the year to look are the **spring through the fall**.

olitary

Pollen

Basket

Scan the code to learn more about bees in PA!

Website: tiny.cc/BeesofPA Social Media: #BeesofPA 30



Soil-nesting

Large cavity-nesting

 Ivania
 Field Notes

 Males have a yellow spot on their
 Which types of insects can you find?

 face – they are territorial,
 Record your observations of their activities!

Stem/twig/tube-nesting

Wood-nesting

Carpenter Bee Xylocopa virginica (Apidae)

These bees are most closely related to Carpenter Bees, but are very tiny in comparison!

but harmless!

Small Carpenter Bee Ceratina spp. (Apidae)

> Females collect soft hairs from fuzzy plants to line their nests!