



Bees of Florida¹

James R. Weaver, Shiala M. Naranjo, Emily Noordyke, and Rachel E. Mallinger²

Did you know there are over 320 species of bees in Florida and over 4,000 in the United States? Wild bees vary widely in behavior, color, size, and shape. *Bees of Florida* is a two-page pdf guide to some common bee groups and species you may encounter in Florida.

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BEES OF FLORIDA

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Did you know there are over 320 species of bees in Florida and over 4,000 in the United States? Wild bees vary widely in behavior, color, size, and shape. This is an abridged introductory guide to some common bee groups and species you may encounter in Florida.

Note that images of bees in this guide are not to scale.









Very Small

Small

Medium Large

Very Large

SWEAT BEES

Sweat bees of the family Halictidae are a diverse and common group of bees. These small to medium-sized and often brilliantly metallic-colored bees are attracted to sweat and will land on your skin for a drink.

Size: very small to medium

Florida species: ~66









Agapostemon splendens ♀

Augochlora pura ♀

Lasioglossum nymphale ♀

Halictus poeyi ♀

EAFCUTTER BEES.

Leafcutters are a diverse group of solitary bees in the genus Megachile known for cutting round segments of leaves used to line their nest cells. They are most easily identified by the pollen-carrying hairs under their abdomens. These bees may occupy bee houses and hotels.

Size: medium to large

Florida species: ~26









Megachile campanulae ♂

Megachile integrella ♀

Megachile pseudobrevis ♀

Megachile texana ♀

MASON BEES

Mason bees are solitary bees in the family Megachilidae and tribe Osmiini. Most are metallic dark blue, though some are black and white striped. They are known for lining their nest cavities and entrances with mud. These bees may occupy bee houses and hotels.

Size: small to large

Florida species: ~14









Osmia chalybea 3

Osmia georgica ⊊

Osmia atriventris ♀

Hoplitis truncata ♀

BUMBLE BEES

Social bumble bees in the family Apidae, genus Bombus, are most easily identified by their robust size, hairy abdomens, and packed pollen balls on female hind legs, similar to honey bees. The hairs on the abdomen vary in color including black, yellow, white, and orange.

Size: large to very large

Florida species:









Photos courtesy of USGS Bee Inventory and Monitoring Lab.

CARPENTER BEES

These are wood-boring bees in the family Apidae. There are two genera of carpenter bees, large (Xylocopa) and small (Ceratina). Large carpenter bees may be mistaken for bumble bees but have a shiny, smooth, and less hairy abdomen. Small carpenter bees are dark and shiny.

Size: small or very large

Florida species: ~5



Xylocopa virginica ♂ Xylocopa virginica ♀





Ceratina dupla ♀

LONG-HORNED BEES

These bees in the family Apidae, tribe Eucerini, include specialists on sunflowers and squash. Females can be recognized by very hairy and robust hind legs while males have very long antennae, giving rise to their common name.

Size: medium to large

Florida species: ~24



Melissodes communis ♂



Melissodes bimaculatus ♀



Eucera dubitata ♀



Svastra obliqua ♀

MINING BEES

Mining bees are a diverse group of ground-nesting bees in the family Andrenidae. In Florida there are two main genera, Andrena (small to large-sized bees) and Perdita (very small bees). These bees are known for digging deep holes in the ground in which they nest.

Size: very small to large

Florida species: ~63



Andrena confederata ♂



Andrena hippotes ♀



Perdita bishoppi ♀



Perdita bradleyi ♀

PLASTERER BEES

Plasterer or cellophane bees get their name from the cellophane-like substance that they create to line their nests. Plasterer bees are found within two genera: Colletes (black with light hairs, often striped abdomens) and Hylaeus (yellow-faced bees).

Size: very small to large

Florida species: ~26



Hylaeus ornatus ♂



Hylaeus modestus ♀



Colletes distinctus ♀



Colletes thoracicus \$\omega\$

CUCKOO BEES

Cuckoo bees are kleptoparasitic nest parasites of other bees. Female cuckoo bees will enter nests of other species and lay their eggs on pollen collected by the other mothers. These bees have lost much of their pollen-carrying hairs and thus may appear more wasp-like.

Size: small to large

Florida species: ~73



Nomada australis ♂



Triepeolus lunatus ♀



Coelioxys germana 3



Epeolus bifasciatus ♀

HONEY BEES

Honey bees are ubiquitous, medium-sized bees that live in large colonies and are used intensively for agricultural pollination and honey production. There is only one honey bee species in Florida, the non-native European honey bee, *Apis mellifera*. Most honey bees in Florida are from managed hives, but feral colonies are also common.

