

Common Wild Bee Genera of Illinois, USA

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Angella Moorehouse¹, Illinois Nature Preserves Commission²

Photos: Angella Moorehouse (Angella.moorehouse@illinois.gov) Produced: Angella Moorehouse and Alicia Diaz, Field Museum. Photo Identification assistance provided by Dr. John Ascher (bugguide.net). **Note: Size Range: (S) Small, sweat bee 3-10mm; (M) Medium, honey bee 11-15mm; (L) Large, bumble bee 15-28mm**



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1 *Andrena* sp. (S-M)
ANDRENIDAE
Mining Bee

2 *Pseudopanurgus* sp. (S)
ANDRENIDAE
Small Mining Bee

3 *Anthophora abrupta* (M)
APIDAE
Digger Bee

4 *Ceratina* sp. (S)
APIDAE
Small Carpenter Bee

5 *Eucera hamata* (M)
APIDAE
Long-horned Bee

6 *Melissodes* sp. (M-L)
APIDAE
Chap-legged Bee

7 *Nomada* sp. (S-M)
APIDAE
Nomad Cuckoo Bee

8 *Svastra obliqua* (M-L)
APIDAE
Sunflower Bee

9 *Triepeolus* sp. (M)
APIDAE
Sunflower Bee

10 *Xylocopa virginica* (L)
APIDAE
Eastern Carpenter Bee

11 *Colletes inaequalis* (S-M)
COLLETIDAE
Polyester Bee

12 *Hylaeus* sp. (S)
COLLETIDAE
Mask or Yellowed-faced Bee

13 *Agapostemon* sp. (S-M)
HALICTIDAE
Large Green Sweat Bee

14 *Augochlorini* (S)
HALICTIDAE
Green Sweat Bees

15 *Halictus ligatus* (S)
HALICTIDAE
Furrow Bees

16 *Lasioglossum* sp. (S)
HALICTIDAE
Sweat Bee or Ground Bee

17 *Coelioxys* sp. (S-M)
MEGACHILIDAE
Leafcutter Cuckoo Bee

18 *Hoplitis* sp. (S-M)
MEGACHILIDAE
Small Leafcutter Bee

19 *Megachile* sp. (M)
MEGACHILIDAE
Leafcutter Bee

20 *Osmia* sp. (S-M)
MEGACHILIDAE
Mason Bee

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Aside from the domesticated honey bee and bumble bees (not included) and the eastern carpenter bee, most bees are not easily identified to species level in the field. Photographs submitted to bugguide.net or inaturalist.org can provide some assistance. Bee identification takes practice. This guide is meant to help encourage citizen scientists/volunteers to get out and get some practice documenting bees in Illinois. Below you will find genus characteristics found in the bees from the previous page.

1. **Andrena**, ANDRENIDAE (Mining Bee):

5-18mm; mostly early season, some mid- and late season, females with facial fovea (pale patches of hair interior from each eye); generally, less hairy than *Colletes* esp. on abdomen.

2. **Pseudopanurgus**, ANDRENIDAE (Small Mining Bee):

5-11mm; similar in appearance to sweat bees, often with blueish or greenish eyes; males have yellow facial markings.

3. **Anthophora**, APIDAE (Digger Bee):

10-19mm; short dense hairy, often resembling bumble bee with downward curved abdomen; often fly with tongue out, pointing downward.

4. **Ceratina**, APIDAE (Small Carpenter Bee):

4-9mm; dark metallic blue/black, males have distinctive yellow facial markings; tip of abdomen bluntly rounded.

5. **Eucera**, APIDAE (Long-horned Bee):

11-19mm; males with long antennae, females can have orangish hairs on thorax.

6. **Melissodes**, APIDAE (Chap-legged Bee):

7-18mm; males with long antennae, often seen in bachelor clubs resting in vegetation during early evening; hairy chap-like legs; may have black, cream or orange body hairs.

7. **Nomada**, APIDAE (Nomad Cuckoo Bee):

5-17mm; generally, have rusty red coloration, often with some yellow markings on abdomen and thorax; nest parasites of *Andrena*.

8. **Svastra**, APIDAE (Sunflower Bee):

9-19mm; very densely haired hind legs often full of pollen; affinity for sunflowers, rosinweed, and gray-headed coneflower.

9. **Triepeolus**, APIDAE (Cuckoo Bee):

12-18mm; often with a smiley face 😊 on thorax, bold creamy or white markings on abdomen; nest parasites of *Melissodes*

10. **Xylocopa**, APIDAE (Eastern Carpenter Bee):

1 species in Midwest; 13-25mm; similar to bumble bee in size and appearance but with shiny black abdomen; males have yellow facial markings; often cut holes at base of tubular flowers and rob nectar.

11. **Colletes**, COLLETIDAE (Polyester Bee):

6-15mm; densely haired head and thorax with hair bands on abdomen; heart-shaped face.

12. **Hylaeus**, COLLETIDAE (Masked or Yellow-faced Bee):

5-9mm; small black bees with distinct yellow facial marks; some with yellow marks on thorax.

13. **Agapostemon**, HALICTIDAE (Large Green Sweat Bee):

8-13mm; small to medium green sweat bee; males have black abdomen with distinct white bands; females are fatter and usually larger than small green sweat bees (*Augochlorini*).

14. **Augochlorini**, HALICTIDAE (Green Sweat Bee: *Augochlora*, *Augochloropsis*, *Augochlorella*):

5-12mm; difficult to distinguish genera of these small all green bees; usually smaller and thinner than *Agapostemon*.

15. **Halictus**, HALICTIDAE (Furrow Bee):

7-13mm; larger sweat bee; head often wide, wedge-shaped.

16. **Lasioglossum**, HALICTIDAE (Sweat Bee or Ground Bee):

3-10mm; tiny often metallic bronze or black, a few are orangish; smaller, thinner heads than *Halictus*.

17. **Coelioxys**, MEGACHILIDAE (Leafcutter Cuckoo Bee):

7-17mm; blackish/gray bees; females with sharply pointed abdomens; males have pointed abdomens with several spikes at tip; nest parasites of *Megachile*.

18. **Hoplitis**, MEGACHILIDAE (Small Leafcutter Bee):

5-13mm; black bees; slender elongated abdomen with white stripes that do not meet in the middle; some with blueish eyes.

19. **Megachile**, MEGACHILIDAE (Leafcutter Bee):

7-20mm; cut circular holes in leaves and flower petals to line nests; distinct hairs on underside of abdomen often colored by pollen; may hold abdomen upright when feeding; many have bluntly triangular abdomen.

20. **Osmia**, MEGACHILIDAE (Mason Bee):

6-13mm; metallic blue, green, or bronze with wide head and body; some hair on the underside of abdomen though usually not as much as *Megachile*.

References:

Heather, Holm, 2017. Bees: an identification and native plant forage guide. Pollination Press LLC, Minnetonka, MN. 224 pp. www.pollinatorsnativeplants.com

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