Bumble Bees: 9 of MN's 25 *Bombus* species can be found in Arden Hills; 1 is a nest parasite.

Common Eastern Bumble Bee

Bombus impatiens | April - Sept.



hive underground

generalist

Two-spotted Bumble Bee

Bombus bimaculatus | April - July

queen





hive below or on ground

generalist

Black-and-Gold Bumble Bee

Bombus auricomus | May - Sept.



hive below or above ground

generalist

Brown-belted Bumble Bee

Bombus griseocollis | May - Aug.





hive below or above ground

generalist

Red-belted Bumble Bee

Bombus rufocinctus | May- Sept.





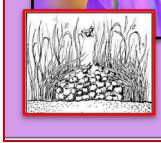
hive on ground (under objects)

generalist

Lemon Cuckoo Bumble Bee

Bombus citrinus | July - Sept.





parasitize *Bombus* species

Northern Amber Bumble Bee

Bombus borealis | May - Sept.



hive on the ground

generalist

Golden Northern Bumble Bee

Bombus fervidus | May - Sept.



hive below or on ground

generalist

Rusty-patched Bumble Bee

Bombus affinis | June - Sept.



hive below or on ground

generalist

Mining Bees: 6 of MN's 86 *Andrena spp*. have been identified in Arden Hills, +1 nest parasite.

Miserable Mining Bee

Andrena miserabilis | April - May



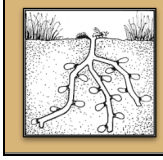


generalist

Neighborly Mining Bee

Andrena vicina | April - June



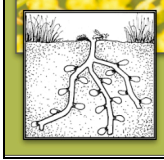


generalist

Milwaukee Mining Bee

Andrena milwaukeensis | April - June





generalist

Hawthorn Mining Bee

Andrena crataegi | May - June





generalist

Golden-Alexanders Mining Bee

Andrena ziziae | May - June



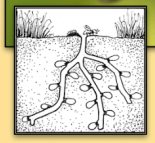


Zizia

Cloudy-winged Mining Bee

Andrena nubecula | Aug. - Sept.





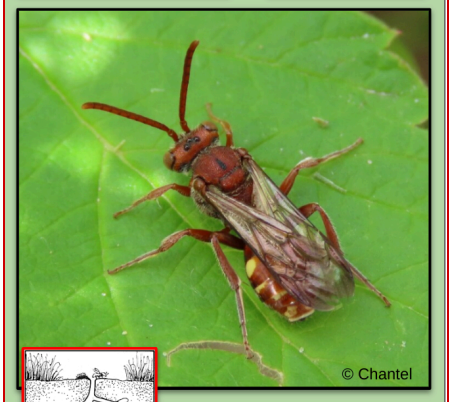
Solidago, Euthamia, & Symphyotrichum

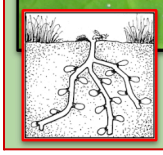
⇧

These are all solitary bees, nesting underground

Spotted Nomada Bee

Nomada maculata | April - June





parasitize nests of *Andrena* species

↖ ⇧

These two are pollen specialists.

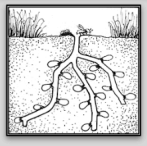
Longhorn Bees: We have 4 of MN's 25 *Melissodes spp*. +1 nest parasite.

Two-spotted Longhorn Bee

Melissodes bimaculatus | July - Aug.



© Eamon Corbett



generalist

Dark-veined Longhorn Bee

Melissodes trinodis | July - Aug.



©karalyn



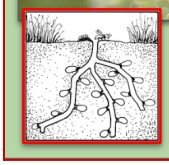
Rudbeckia, Ratibida, Helianthus, Heliopsis, Solidago, Coreopsis, & Symphyotrichum

Lunate Longhorn-cuckoo Bee

Triepeolus lunatus | July - Aug.



© Krista Menzel



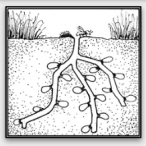
parasitize nests of *Melissodes* species

Drury's Longhorn Bee

Melissodes druriellus | Aug. - Sept.



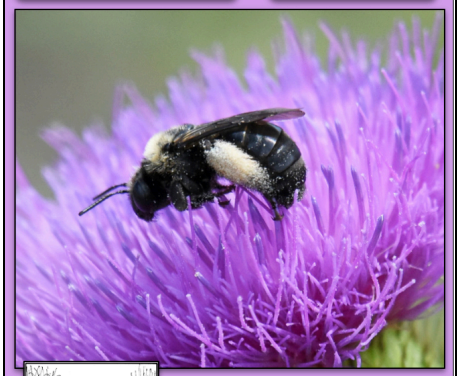
©Heather Holm



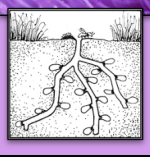
Solidago, Euthamia, Helianthus, Rudbeckia, Vernonia, Eurybia, & Symphyotrichum

Eastern Thistle Longhorn Bee

Melissodes desponsus | July - Sept.



©wyldewastelander



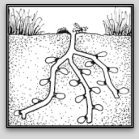
Cirsium

Leafcutter Bees: We have only documented 1 of MN's 25 species of *Megachile* in Arden Hills, +1 nest parasite.

Texas Leafcutter Bee

Megachile texana | July - Aug.

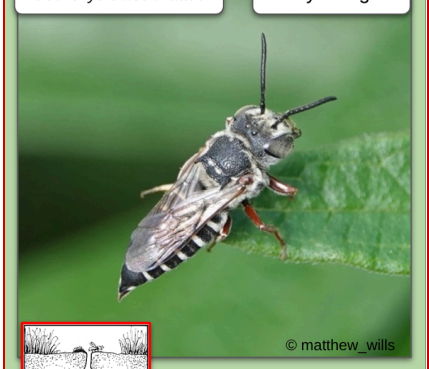




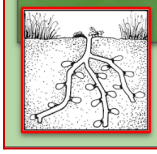
generalist

Eight-toothed Cuckoo Leafcutter Bee

Coelioxys octodentatus | July - Aug.

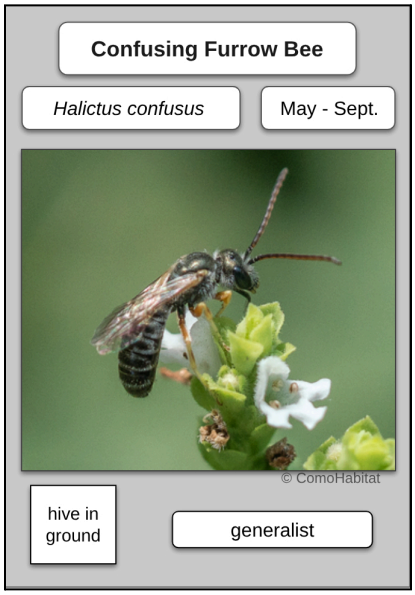


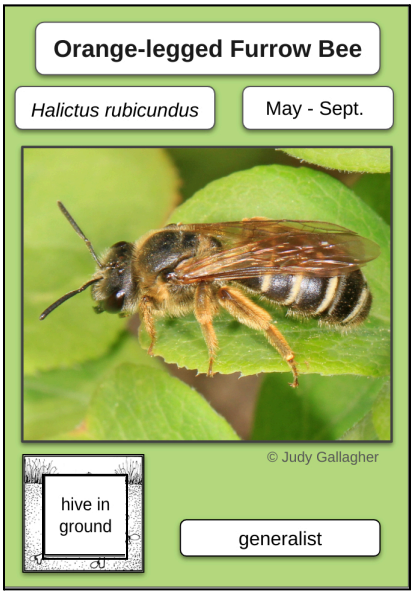
© matthew_wills

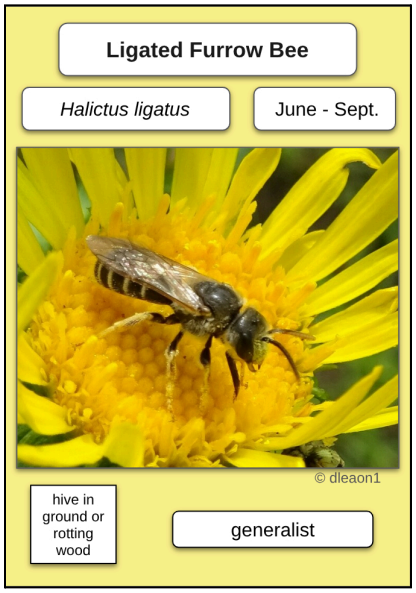


parasitize nests of *Megachile* species

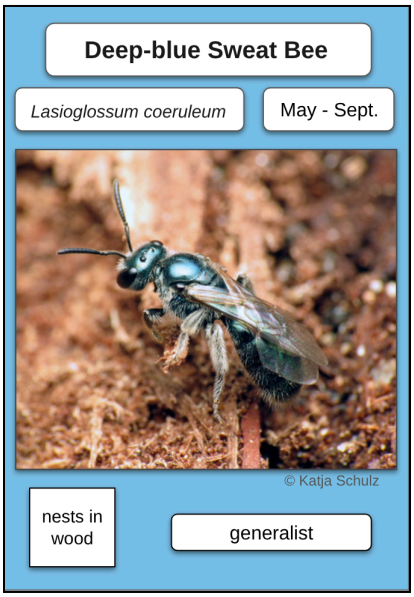
Furrow Bees: Arden Hills is home to 3 of MN's 4 species of furrow bees.

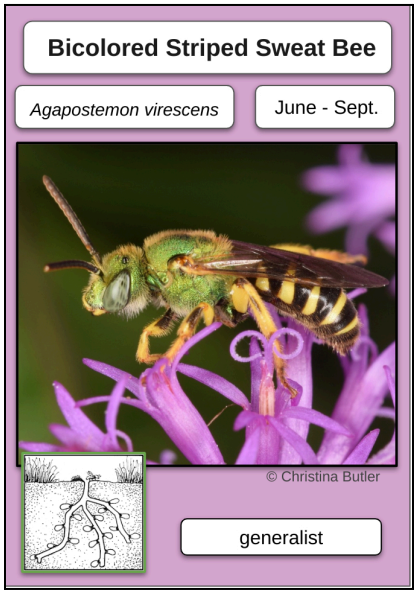


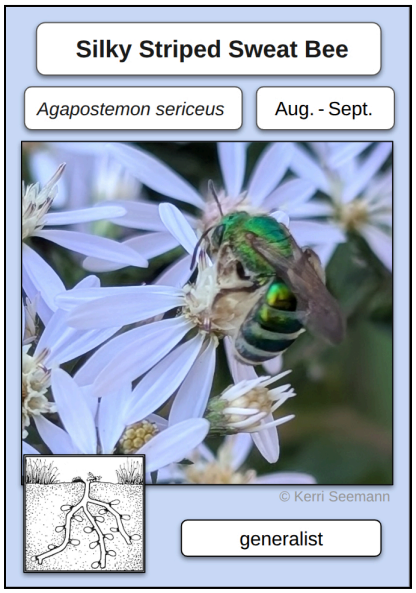




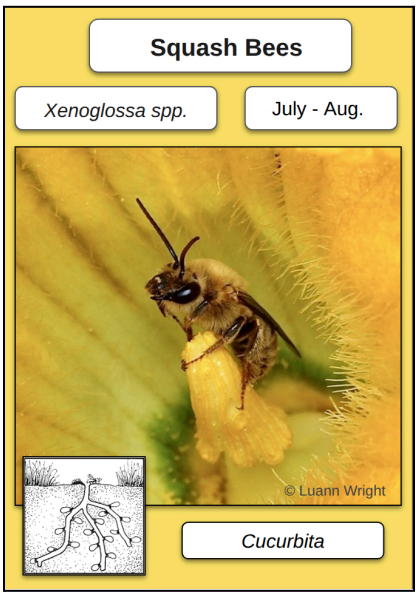
Sweat Bees: 2 of MN's 13 species of metallic green sweat bees have been documented here, plus 1 of the 84 species of small sweat bees (*Lasioglossum*). There are certainly more species present that can't be identified from amateur photography.







Squash Bees: There are two species of bees that only collect pollen from squash. One has been spotted in Arden Hills.



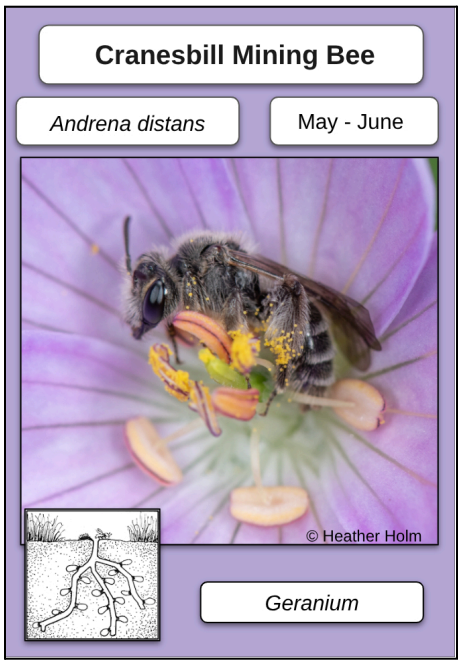
Specialist Bees in Neighboring Communities

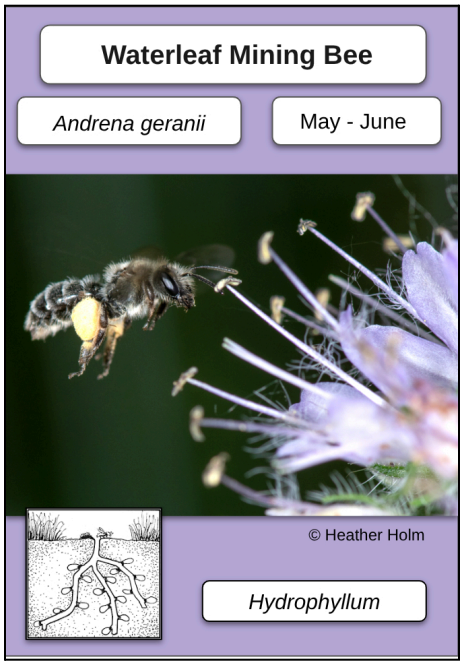
One of the best ways we can support bee diversity in Arden Hills is by providing habitat with a diversity of floral resources. If we can improve habitat both in our parks and in our yards–not only by removing invasive species but also ADDING native flowers that support pollen specialists–we can hopefully attract some of the pollen specialist bees in neighboring communities to expand their range into Arden Hills, as well.

Mining Bees: There are 11 species of mining bees nearby that have not yet been documented in Arden Hills. In the spring, 5 species collect pollen from only one type of plant (**willow**, **wild geranium**, **waterleaf**, and **golden Alexanders**).







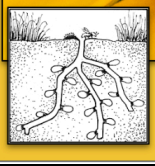




Unnamed Mining Bee

Protandrena albitarsis | June - Sept.

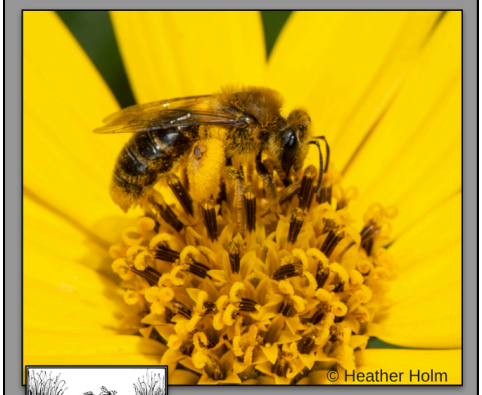




Rudbeckia, Ratibida, Helianthus & Coreopsis

Sunflower Mining Bee

Andrena helianthi | Aug. - Sept.





Helianthus

Yellow-faced Mining Bee

Andrena aliciae | Aug. - Sept.





Solidago, Rudbeckia, Bidens, Helianthus, Vernonia, & Symphyotrichum

↖ ⇧ ↗

3 collect pollen from **sunflowers** (*Helianthus*)

⇧

3 collect pollen from **coneflowers** (*Rudbeckia, Ratibida*) ↗

⇩ ↗

4 collect pollen from **asters** (*Symphyotrichum*, *Eurybia)* & **goldenrod** (*Solidago, Euthamia*)

↙ ⇩ ↘

Eastern Bare Mining Bee

Protandrena andrenoides | Aug. - Sept.



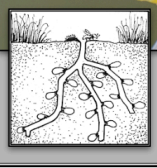


Solidago, Rudbeckia, Symphyotrichum, & Eurybia

Hairy-banded Mining Bee

Andrena hirticincta | Aug. - Oct.



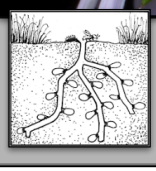


Solidago, Euthamia, & Symphyotrichum

Aster Mining Bee

Andrena asteris | Sept. - Oct.





Solidago & Symphyotrichum

Longhorn Bees: There are 5 species of longhorn bees nearby that have not yet been documented in Arden Hills.

Unnamed Longhorn Bee

Melissodes subilatus | June - July





Coreopsis, Cirsium, Rudbeckia, Vernonia, & Symphyotrichum

Agile Longhorn Bee

Melissodes agilis | July - Aug.





Rudbeckia, Ratibida, Solidago, Helianthus & Cirsium

Oblique Longhorn Bee

Svastra obliqua or Epimelissodes obliquus | July - Aug.





Helianthus, Vernonia, Grindelia, Cirsium, & Symphyotrichum

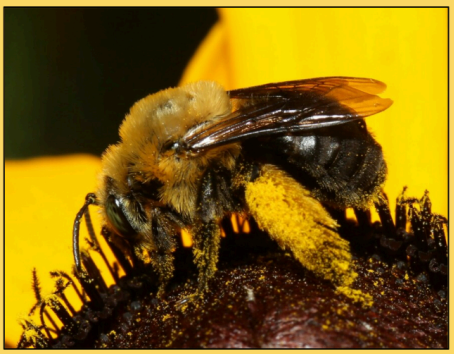
3 collect pollen from **thistles** (*Cirsium*)

3 collect pollen from **coneflowers** (*Rudbeckia, Ratibida*)

4 collect pollen from **sunflowers** (*Helianthus*)

Unnamed Longhorn Bee

Melissodes bidentis | August



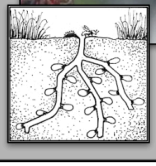


Helianthus, Rudbeckia, & Bidens

Denticulate Longhorn Bee

Melissodes denticulatus | July - Aug.





Helianthus & Vernonia

OTHERS:

Giant Sweat Bee

Dieunomia heteropoda | July - Oct.



Coreopsis, Helianthus, Solidago, Bidens, & Silphium

This is 1 of 3 local species to benefit from from coreopsis and 1 of 3 to benefit from *Bidens* (such as Swamp Marigold).

Beebalm Shortface Sweat Bee

Dufourea monardae | July - Aug.



Monarda

This tiny bee only collects pollen from beebalm/monarda.

Bellflower Resin Bee

Megachile campanulae | June - July



nests in logs and stems

Campanula

You can support this species by planting **harebells** (sun) or **tall bellflower** (shade).

All-Pale Perdita

Perdita perpallida | July - Aug.



Dalea

This species is most likely to be found in dry, sandy prairies, but was apparently attracted to a yard in New Brighton.

Broad-footed Cellophane Bee

Colletes latitarsis | July - Aug.



Physalis

Does anyone grow **ground cherries**?

Sunflower Burrowing Resin Bee

Paranthidium jugatorium | July - Sept.



Helianthus, Solidago, Erigeron, Silphium, Heterotheca, & Grindelia