

## Minnesota Bee Species List

There was little known about the diversity of bees in Minnesota prior to efforts in the last 10 years by researchers to collect and identify bee specimens. From these recent efforts, the species list of bees documented in Minnesota now stands at 508 species, including 11 species that are not native to North America. This list of species is the result of collaborative work between the University of Minnesota – Cariveau Native Bee Lab, the University of Minnesota Insect Collection and the Minnesota Department of Natural Resources. Data were pooled from a variety of sources including museum specimens, specimens collected from research projects, and a statewide survey conducted by the Minnesota Biological Survey. Additional information, including species accounts and methodologies, is available in the [full report](#) (Portman et al. 2023).

Gibbs J, Hanuschuk E, Miller R, et al (2023) A checklist of the bees (Hymenoptera: Apoidea) of Manitoba. Can Entomol 1–38. <https://doi.org/10.4039/tce.2022.45>

Portman ZM, Gardner J, Lane IG, et al (2023) A checklist of the bees (Hymenoptera: Apoidea) of Minnesota. Zootaxa 5304:1–95. <https://doi.org/10.4039/tce.2022.45>

Rightmyer MG (2008) A review of the cleptoparasitic bee genus *Triepeolus* (Hymenoptera: Apidae). - Part 1. Zootaxa 1710:1–170

### Description of Categories

**Scientific name:** The taxonomy used here is reflective of the known status as of the date on this publication.

**Lecty:** Oligoleptic refers to species that are specialists, collecting pollen from a species, genus, or sometimes family of plants to feed their brood. Polylectic refers to species that use a wide variety of pollen.

**Host:** Pollen hosts are listed here for oligoleptic bees. This category is also used to list specific bee host species of cleptoparasitic bees where they are known from the literature.

**Nest:** The nesting substrate is listed here including the following categories: cavities, exterior surfaces, hives, stems, wood, and ground.

**Origin:** Unless listed as non-native, all species shown are considered native to Minnesota.

**Behavior:** Categories include Solitary, Communal, Subsocial, Eusocial, and Parasite. Here parasite refers to species that are cleptoparasitic or socially parasitic.

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Scientific Name	Lecty	Host	Origin	Nest	Behavior
<b>Family Andrenidae --Mining Bees</b>					
<i>Andrena accepta</i>	oligolectic	<i>Helianthus</i> (Arduser)			
<i>Andrena aff. nigrihirta</i>				ground	solitary
<i>Andrena algida</i>	polylectic			ground	solitary
<i>Andrena aliciae</i>	oligolectic	<i>Helianthus, Rudbeckia, Verbesina</i> (Arduser)			
<i>Andrena alleghaniensis</i>	polylectic			ground	solitary
<i>Andrena andrenoides</i>	oligolectic	<i>Salix</i> (Gibbs 2023 & Arduser)		ground	solitary
<i>Andrena arabis</i>	oligolectic	<i>Cardamine, Arabis, Barbarea</i> (Arduser)			
<i>Andrena asteris</i>	oligolectic	<i>Solidago, Symphyotrichum</i> (Gibbs 2023 & Arduser)		ground	solitary
<i>Andrena barbilabris</i>	polylectic			ground	solitary
<i>Andrena bisalicis</i>	oligolectic	<i>Salix</i> (Arduser)			
<i>Andrena bradleyi</i>	oligolectic	<i>Ericaceae</i> (Gibbs), <i>Vaccinium</i> (Arduser)		ground	solitary
<i>Andrena brevipalpis</i>	oligolectic	<i>Rhus</i> (Arduser)			
<i>Andrena campanulae</i>	oligolectic	lecty unsure (Gibbs 2023)		ground	solitary
<i>Andrena canadensis</i>	oligolectic	<i>Solidago, Symphyotrichum</i> (Gibbs 2023 & Arduser)		ground	solitary
<i>Andrena carlini</i>	polylectic			ground	solitary
<i>Andrena carolina</i>	oligolectic	<i>Vaccinium</i> (Arduser)			
<i>Andrena ceanothi</i>	polylectic				
<i>Andrena chromotricha</i>	oligolectic	<i>Compositae</i> (Gibbs 2023), <i>Solidago &amp; Helianthus</i> (Arduser)		ground	solitary
<i>Andrena clarkella</i>	oligolectic	<i>Salix</i> (Gibbs 2023 & Arduser)		ground	solitary
<i>Andrena colletina</i>	oligolectic	<i>Symphyotrichum, Grindelia</i> (Arduser)			
<i>Andrena commoda</i>	polylectic			ground	solitary
<i>Andrena cragini</i>	oligolectic	<i>Amorpha fruticosa</i> (Arduser)			
<i>Andrena crataegi</i>	polylectic			ground	solitary
<i>Andrena cressonii</i>	polylectic				
<i>Andrena distans</i>	oligolectic	<i>Geranium maculatum</i> (Arduser)			
<i>Andrena dunningi</i>	polylectic			ground	solitary
<i>Andrena erigeniae</i>	oligolectic	<i>Claytonia</i> (Arduser)			
<i>Andrena erythrogaster</i>	oligolectic	<i>Salix</i> (Gibbs 2023 & Arduser)		ground	solitary
<i>Andrena erythronii</i>	oligolectic	<i>Erythronium</i> (Arduser)			
<i>Andrena forbesii</i>	polylectic			ground	solitary



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<i>Andrena fragilis</i>	oligolectic	<i>Cornus</i> (Arduser)			
<i>Andrena frigida</i>	oligolectic	<i>Salix</i> (Gibbs 2023 & Arduser)		ground	solitary
<i>Andrena geranii</i>	oligolectic	<i>Hydrophyllum</i> (Arduser)			
<i>Andrena haynesi</i>	oligolectic	<i>Helianthus</i> (Arduser)			
<i>Andrena helianthi</i>	oligolectic	<i>Helianthus</i> (Gibbs 2023 & Arduser)		ground	solitary
<i>Andrena helianthiformis</i>	oligolectic	<i>Echinacea angustifolia, E. pallida, E. simulata</i> (Arduser)			
<i>Andrena hippotes</i>	polylectic			ground	solitary
<i>Andrena hirticincta</i>	oligolectic	<i>Solidago, Symphyotrichum</i> (Gibbs 2023)		ground	solitary
<i>Andrena illinoiensis</i>	polylectic			ground	solitary
<i>Andrena imitatrix</i>	polylectic			ground	solitary
<i>Andrena integra</i>	oligolectic	<i>Cornus</i> (Arduser)			
<i>Andrena krigiana</i>	oligolectic	<i>Krigia</i> (Arduser)			
<i>Andrena lupinorum</i>	oligolectic	<i>Fabaceae</i> (Gibbs 2023)		ground	solitary
<i>Andrena macoupinensis</i>	oligolectic	<i>Salix</i> (Arduser)			
<i>Andrena mandibularis</i>	polylectic				
<i>Andrena mariae</i>	oligolectic	<i>Salix</i> (Gibbs 2023 & Arduser)		ground	solitary
<i>Andrena melanochroa</i>	oligolectic	<i>Rosaceae</i> (Gibbs 2023), <i>Fragaria, Potentilla</i> (Arduser)		ground	solitary
<i>Andrena milwaukeensis</i>	polylectic			ground	solitary
<i>Andrena miranda</i>	polylectic			ground	solitary
<i>Andrena miserabilis</i>	polylectic			ground	solitary
<i>Andrena nasonii</i>	polylectic				
<i>Andrena nigrae</i>	oligolectic	<i>Salix</i> (Gibbs 2023 & Arduser)		ground	solitary
<i>Andrena nigrihirta</i>	polylectic			ground	solitary
<i>Andrena nivalis</i>	polylectic			ground	solitary
<i>Andrena nubecula</i>	oligolectic	<i>Solidago, Symphyotrichum</i> (Gibbs 2023 & Arduser)		ground	solitary
<i>Andrena peckhami</i>	oligolectic	<i>Asteraceae</i> (Arduser)		ground	solitary
<i>Andrena perplexa</i>	polylectic				
<i>Andrena persimulata</i>	oligolectic	<i>Cornus</i> (Gibbs 2023& Arduser)		ground	solitary
<i>Andrena phaceliae</i>	oligolectic	<i>Phacelia</i> (Arduser)			
<i>Andrena placata</i>	oligolectic	<i>Solidago, Symphyotrichum</i> (Gibbs 2023), <i>Heterotheca</i> (Arduser)		ground	solitary
<i>Andrena platyparia</i>	oligolectic	<i>Cornus</i> (Arduser)			



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<i>Andrena polemonii</i>	oligolectic	<i>Polemonium</i> (Arduser)			
<i>Andrena quintilis</i>	oligolectic	<i>Amorpha canescens</i> (Arduser)			
<i>Andrena regularis</i>	polylectic			ground	solitary
<i>Andrena robertsonii</i>	polylectic				
<i>Andrena robervalensis</i>	polylectic	likely Compositae (Gibbs 2023)		ground	solitary
<i>Andrena rudbeckiae</i>	oligolectic	<i>Rudbeckia, Ratibida</i> (Arduser)			
<i>Andrena rufosignata</i>	polylectic			ground	solitary
<i>Andrena rugosa</i>	polylectic				
<i>Andrena runcinatae</i>	polylectic	likely Compositae (Gibbs 2023), summer-late summer Asteraceae genera (Arduser)		ground	solitary
<i>Andrena salictaria</i>	oligolectic	<i>Salix</i> (Gibbs 2023 & Arduser)		ground	solitary
<i>Andrena sigmundi</i>	oligolectic	<i>Salix</i> (Gibbs 2023)		ground	solitary
<i>Andrena simplex</i>	oligolectic	<i>Solidago, Symphyotrichum</i> (Arduser)			
<i>Andrena spiraeana</i>	polylectic				
<i>Andrena surda</i>	oligolectic	late summer Asteraceae genera (Arduser)			
<i>Andrena thaspii</i>	polylectic			ground	solitary
<i>Andrena tridens</i>	polylectic				
<i>Andrena uvulariae</i>	oligolectic	<i>Uvularia</i>			
<i>Andrena vernalis</i>	oligolectic	<i>Zizia</i> (Arduser)			
<i>Andrena vicina</i>	polylectic			ground	solitary
<i>Andrena virginiana</i>	polylectic				
<i>Andrena wellesleyana</i>	oligolectic	<i>Salix</i> (Gibbs 2023 & Arduser)		ground	solitary
<i>Andrena wheeleri</i>	polylectic			ground	solitary
<i>Andrena wilkella</i>	oligolectic	Fabaceae (Gibbs 2023), introduced legumes like <i>Melilotus, Trifolium, Vicia</i> (Arduser)	non-native	ground	solitary
<i>Andrena wilmattae</i>	polylectic				
<i>Andrena w-scripta</i>	polylectic			ground	solitary
<i>Andrena ziziae</i>	oligolectic	<i>Zizia</i> (Gibbs 2023)		ground	solitary
<i>Calliopsis andreniformis</i>	oligolectic	Fabaceae (Portman)		ground	
<i>Calliopsis coloradensis</i>	oligolectic	Compositae (Gibbs 2023), summer Asteraceae (Arduser)		ground	solitary
<i>Calliopsis nebraskensis</i>	oligolectic	<i>Verbena</i> (Arduser)			
<i>Perdita albipennis</i>	oligolectic	<i>Helianthus</i> (Gibbs 2023 & Arduser)		ground	solitary
<i>Perdita bruneri</i>	oligolectic	Compositae (Gibbs 2023), <i>Solidago, Grindelia</i> (Arduser)		ground	solitary



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<i>Perdita dolichocephala</i>	oligolectic	<i>Helianthus</i> (Arduser)			
<i>Perdita fallax</i>	oligolectic	<i>Helianthus</i> (Gibbs 2023)		ground	solitary
<i>Perdita gerhardi</i>	oligolectic	<i>Monarda punctata</i> (Arduser)			
<i>Perdita halictoides</i>	oligolectic	<i>Physalis</i> (Gibbs 2023& Arduser)		ground	solitary
<i>Perdita ignota</i>	oligolectic	<i>Grindelia, Heterotheca, Chrysopsis</i> (Arduser)			
<i>Perdita maculigera</i>	oligolectic	<i>Salix</i> (Gibbs 2023 & Arduser)		ground	solitary
<i>Perdita octomaculata</i>	oligolectic	<i>Solidago</i> (Gibbs 2023 & Arduser)		ground	solitary
<i>Perdita pallidipennis</i>	oligolectic	Asteraceae (Rochet al. 2021)			
<i>Perdita perpallida</i>	oligolectic	<i>Dalea</i> (Gibbs 2023& Arduser)		ground	solitary
<i>Perdita swenki</i>	oligolectic	<i>Solidago</i> (Arduser)			
<i>Protandrena aestivalis</i>	oligolectic	Compositae: Astereae (Gibbs 2023); <i>Solidago, Heterotheca, Chrysopsis</i> (Arduser)		ground	solitary
<i>Protandrena albifarsis</i>	oligolectic	Compositae: Heliantheae (Gibbs 2023)		ground	solitary
<i>Protandrena andrenoides</i>	oligolectic	<i>Solidago</i> (Arduser)			
<i>Protandrena bancrofti</i>	polylectic				
<i>Protandrena labrosa</i>	oligolectic	<i>Rudbeckia, Erigeron</i> (Arduser)			
<i>Protandrena parva</i>	polylectic			ground	solitary
<i>Protandrena pauper</i>	oligolectic	<i>Ceanothus</i> (Arduser)			
<i>Protandrena renimaculata</i>	oligolectic	<i>Grindelia</i> (Gibbs 2023), Asteraceace: unclear (Arduser)		ground	solitary
<i>Protandrena rudbeckiae</i>	oligolectic	<i>Rudbeckia</i> (Gibbs 2023 & Arduser)		ground	solitary
<i>Protandrena simulans</i>	oligolectic	<i>Helianthus, Grindelia</i> (Arduser)			
<b>Family Apidae --Cuckoo, Digger, Bumble, Honey Bees</b>					
<i>Anthophora bomboides</i>	polylectic			ground	solitary
<i>Anthophora terminalis</i>	polylectic			wood	solitary
<i>Anthophora walshii</i>	polylectic			ground	solitary
<i>Apis mellifera</i>	polylectic		non-native	hives	eusocial
<i>Bombus affinis</i>	polylectic			hives	
<i>Bombus ashtoni</i>		<i>Bombus (Bombus)</i> (Gibbs 2023)		hives	parasitic
<i>Bombus auricomus</i>	polylectic			hives	
<i>Bombus bimaculatus</i>	polylectic			hives	eusocial
<i>Bombus borealis</i>	polylectic			hives	eusocial
<i>Bombus citrinus</i>		<i>Bombus bimaculatus, B. impatiens, B. vagans</i> (Gibbs 2023)		hives	parasitic



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Scientific Name	Lecty	Host	Origin	Nest	Behavior
<i>Bombus fervidus</i>	polylectic			hives	eusocial
<i>Bombus flavidus</i>		<i>Bombus</i>		hives	parasitic
<i>Bombus fraternus</i>	polylectic			hives	eusocial
<i>Bombus frigidus</i>	polylectic			hives	eusocial
<i>Bombus griseocollis</i>	polylectic			hives	eusocial
<i>Bombus huntii</i>	polylectic			hives	eusocial
<i>Bombus impatiens</i>	polylectic			hives	eusocial
<i>Bombus insularis</i>		<i>Bombus</i>		hives	parasitic
<i>Bombus melanopygus</i>	polylectic			hives	eusocial
<i>Bombus nevadensis</i>	polylectic			hives	eusocial
<i>Bombus pensylvanicus</i>	polylectic			hives	eusocial
<i>Bombus perplexus</i>	polylectic			hives	eusocial
<i>Bombus rufocinctus</i>	polylectic			hives	eusocial
<i>Bombus sandersoni</i>	polylectic			hives	eusocial
<i>Bombus suckleyi</i>		<i>Bombus</i>		hives	parasitic
<i>Bombus ternarius</i>	polylectic			hives	eusocial
<i>Bombus terricola</i>	polylectic			hives	eusocial
<i>Bombus vagans</i>	polylectic			hives	eusocial
<i>Bombus variabilis</i>	polylectic			hives	parasitic
<i>Brachymelecta interrupta</i>	polylectic	<i>Anthophora walshii</i> (Gibbs 2023)		ground	parasitic
<i>Ceratina calcarata</i>	polylectic			stems	subsocial
<i>Ceratina dupla</i>	polylectic			stems	subsocial
<i>Ceratina mikmaqi</i>	polylectic			stems	subsocial
<i>Ceratina strenua</i>	polylectic			stems	subsocial
<i>Epeorus ainsliei</i>		likely <i>Colletes susannae</i> and possibly <i>C. wilmattei</i> (Gibbs 2023)		ground	parasitic
<i>Epeorus americanus</i>		<i>Colletes cossors mesocopus</i> (Gibbs 2023)		ground	parasitic
<i>Epeorus autumnalis</i>		<i>Colletes compactus</i> (presumed)		ground	parasitic
<i>Epeorus bifasciatus</i>		<i>Colletes latitarsis</i> (presumed)		ground	parasitic
<i>Epeorus interruptus</i>		<i>Colletes aestivalis</i> , <i>C. brevicornis</i> , & <i>C. willistoni</i> are possible hosts (Gibbs 2023)		ground	parasitic
<i>Epeorus lectoides</i>		<i>Colletes latitarsis</i> (presumed)			parasitic
<i>Epeorus lectus</i>		<i>Colletes</i>			parasitic



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<i>Epeorus minimus</i>		<i>Colletes kincaidii</i> is a likely host (Gibbs 2023)		ground	parasitic
<i>Epeorus pusillus</i>		<i>Colletes compactus</i> and <i>C. americanus</i>			parasitic
<i>Epeorus scutellaris</i>		likely <i>Colletes simulans armatus</i> (Gibbs 2023)		ground	parasitic
<i>Eucera albata</i>	oligolectic	<i>Dalea purpurea</i> (Arduser)			
<i>Eucera aragalli</i>	polylectic				
<i>Eucera atriventris</i>	polylectic			ground	solitary
<i>Eucera dubitata</i>	polylectic				
<i>Eucera hamata</i>	polylectic			ground	solitary
<i>Eucera kansensis</i>	oligolectic	<i>Cucurbita</i> (Arduser)			
<i>Eucera lepida</i>				ground	solitary
<i>Eucera pruinosa</i>	oligolectic	<i>Cucurbita</i> (Arduser)			
<i>Holcopasites calliopsisidis</i>		<i>Calliopsis andreniformis</i> (Gibbs 2023)		ground	parasitic
<i>Melissodes agilis</i>	oligolectic	<i>Helianthus</i> (Gibbs 2023 & Arduser)		ground	solitary
<i>Melissodes apicatus</i>	oligolectic	<i>Pontederia</i>			
<i>Melissodes bidentis</i>	oligolectic	<i>Compositae</i> (Gibbs 2023)		ground	solitary
<i>Melissodes bimaculatus</i>	polylectic			ground	solitary
<i>Melissodes boltoniae</i>	oligolectic	various <i>Compositae</i> genera (Arduser)			
<i>Melissodes communis</i>	polylectic				
<i>Melissodes comptoides</i>	polylectic				
<i>Melissodes confusus</i>	oligolectic	<i>Compositae</i> (Gibbs 2023)		ground	solitary
<i>Melissodes coreopsis</i>	oligolectic	<i>Compositae</i> (Gibbs 2023)		ground	solitary
<i>Melissodes denticulatus</i>	oligolectic	<i>Vernonia</i> (Gibbs 2023 & Arduser)		ground	solitary
<i>Melissodes dentiventris</i>	oligolectic	<i>Symphyotrichum, Solidago</i> (Arduser)			
<i>Melissodes desponsus</i>	oligolectic	<i>Cirsium</i> (Gibbs 2023 & Arduser)		ground	solitary
<i>Melissodes druriellus</i>	oligolectic	<i>Solidago, Symphyotrichum</i> (Gibbs 2023), various genera (Arduser)		ground	solitary
<i>Melissodes gelidus</i>					
<i>Melissodes grindeliae</i>	oligolectic	various <i>Compositae</i> genera (Arduser)			
<i>Melissodes illatus</i>	oligolectic	<i>Compositae</i> (Gibbs 2023), various genera (Arduser)		ground	solitary
<i>Melissodes menuachus</i>	oligolectic	various <i>Compositae</i> genera (Arduser)			
<i>Melissodes niveus</i>	oligolectic	various <i>Compositae</i> genera (Arduser)			
<i>Melissodes rivalis</i>	oligolectic	<i>Cirsium</i> (Gibbs 2023 & Arduser)		ground	solitary



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<i>Melissodes snowii</i>	oligolectic	Compositae (Gibbs 2023), <i>Helianthus</i> (Arduser)		ground	solitary
<i>Melissodes subagilis</i>	oligolectic	Compositae (Gibbs 2023), <i>Grindelia</i> (Arduser)		ground	solitary
<i>Melissodes subillatus</i>	oligolectic	Compositae (Gibbs 2023), various genera (Arduser)		ground	solitary
<i>Melissodes tinctus</i>	oligolectic	various genera (Arduser)			
<i>Melissodes trinodis</i>	oligolectic	<i>Helianthus</i> and related Compositae (Gibbs 2023)		ground	solitary
<i>Melissodes wheeleri</i>	oligolectic	Compositae (Gibbs 2023), various genera (Arduser)		ground	solitary
<i>Neolarra vigilans</i>		<i>Perdita</i> , likely <i>P. perpallida</i> (Portman 2023)		ground	parasitic
<i>Nomada aquilarum</i>		<i>Andrena (cnemidandrena)?</i> (Gibbs 2023)		ground	parasitic
<i>Nomada articulata</i>		<i>Agapostemon</i> (Gibbs 2023)		ground	parasitic
<i>Nomada australis</i>		<i>Agapostemon splendens?</i> (Gibbs 2023)		ground	parasitic
<i>Nomada banksi</i>		<i>Andrena asteris?</i> (Gibbs 2023)		ground	parasitic
<i>Nomada bella</i>					parasitic
<i>Nomada besseyi</i>					parasitic
<i>Nomada bethunei</i>					parasitic
<i>Nomada cressonii</i>		<i>Andrena (Melandrena, Plastandrena)</i> (Gibbs 2023)		ground	parasitic
<i>Nomada cuneata</i>		<i>Andrena vicina</i> (Gibbs 2023)		ground	parasitic
<i>Nomada denticulata</i>		<i>Andrena?</i> (Gibbs 2023)		ground	parasitic
<i>Nomada depressa</i>		<i>Andrena?</i> (Gibbs 2023)		ground	parasitic
<i>Nomada erigeronis</i>					parasitic
<i>Nomada fervida</i>		<i>Andrena?</i> (Gibbs 2023)		ground	parasitic
<i>Nomada fuscicincta</i>					parasitic
<i>Nomada gracilis</i>		<i>Andrena?</i> (Gibbs 2023)		ground	parasitic
<i>Nomada graenicheri</i>					parasitic
<i>Nomada illinoensis</i>					parasitic
<i>Nomada imbricata</i>		<i>Andrena (melaandrena)</i> (Gibbs 2023)		ground	parasitic
<i>Nomada integerrima</i>		<i>Andrena?</i> (Gibbs 2023)		ground	parasitic
<i>Nomada lehighensis</i>		<i>Andrena?</i> (Gibbs 2023)		ground	parasitic
<i>Nomada lepida</i>					parasitic
<i>Nomada louisianae</i>					parasitic
<i>Nomada luteoloides</i>		<i>Andrena (Melandrena)</i> (Gibbs 2023)		ground	parasitic
<i>Nomada maculata</i>		<i>Andrena (Melandrena)</i> (Gibbs 2023)		ground	parasitic



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Scientific Name	Lecty	Host	Origin	Nest	Behavior
<i>Nomada obliterata</i>		<i>Andrena?</i> (Gibbs 2023)		ground	parasitic
<i>Nomada ovata</i>		<i>Andrena?</i> (Gibbs 2023)		ground	parasitic
<i>Nomada perplexa</i>					parasitic
<i>Nomada pygmaea</i>					parasitic
<i>Nomada rubi</i>					parasitic
<i>Nomada rubicunda</i>		<i>Agapostemon splendens</i> (Gibbs 2023)	ground		parasitic
<i>Nomada sayi</i>					parasitic
<i>Nomada superba</i>					parasitic
<i>Nomada tiftonensis</i>					parasitic
<i>Nomada vegana</i>					parasitic
<i>Nomada vicina</i>		<i>Andrena?</i> (Gibbs 2023)	ground		parasitic
<i>Nomada vincta</i>		<i>Andrena helianthi</i> (Gibbs 2023)	ground		parasitic
<i>Nomada xanthura</i>					parasitic
<i>Svastra atripes</i>					
<i>Svastra obliqua</i>	oligolectic	<i>Helianthus</i> (Arduser)			
<i>Triepeolus concavus</i>		<i>Svastra obliqua</i> (Rightmyer 2008)			parasitic
<i>Triepeolus cressonii</i>					parasitic
<i>Triepeolus distinctus</i>		<i>Dieunomia</i> (Rightmyer 2008)			parasitic
<i>Triepeolus donatus</i>					parasitic
<i>Triepeolus eliseae</i>		possibly <i>Melissodes</i> ( <i>Eumelissodes</i> ) (Gibbs 2023)	ground		parasitic
<i>Triepeolus helianthi</i>		possibly <i>Melissodes</i> ( <i>Eumelissodes</i> ) (Gibbs 2023)	ground		parasitic
<i>Triepeolus lunatus</i>		<i>Melissodes</i> (Rightmyer 2008)			parasitic
<i>Triepeolus oblitteratus</i>		possibly <i>Melissodes</i> ( <i>Eumelissodes</i> ) (Gibbs 2023)	ground		parasitic
<i>Triepeolus occidentalis</i>		<i>Melissodes</i> , possibly <i>M. menuachus</i> (Gibbs 2023)	ground		parasitic
<i>Triepeolus pectoralis</i>		<i>Melissodes druriellus</i> (Gibbs 2023)	ground		parasitic
<i>Triepeolus remigatus</i>		<i>Eucera</i> ( <i>Peponapis</i> ) <i>pruinosa</i> and <i>Dieunomia heteropoda</i> (Rightmyer 2008)			parasitic
<i>Triepeolus rhododontus</i>					parasitic
<i>Triepeolus simplex</i>					parasitic
<i>Triepeolus subalpinus</i>		<i>Melissodes</i> ( <i>Eumelissodes</i> ), possibly <i>M. agilis</i> (Gibbs 2023)	ground		parasitic
<i>Triepeolus tanneri</i>					parasitic
<i>Xylocopa virginica</i>					



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# Minnesota Bee Species List

Scientific Name	Lecty	Host	Origin	Nest	Behavior
<b>Family Colletidae --Cellophane, Plasterer and Masked bees</b>					
<i>Colletes aberrans</i>	oligolectic	<i>Dalea</i> (Arduser)			
<i>Colletes albescens</i>	oligolectic	<i>Amorpha canescens</i> (Arduser)			
<i>Colletes americanus</i>	oligolectic	<i>Compositae</i> (Gibbs 2023), <i>Symphyotrichum</i> , <i>Solidago</i> (Arduser)		ground	solitary
<i>Colletes andrewsi</i>	oligolectic	<i>Heuchera</i> (Gibbs 2023 & Arduser)		ground	solitary
<i>Colletes brevicornis</i>	oligolectic	<i>Campanula</i> (Gibbs 2023 & Arduser)		ground	solitary
<i>Colletes compactus</i>	oligolectic	<i>Symphyotrichum</i> , <i>Solidago</i> (Arduser)			
<i>Colletes cossors</i>	oligolectic	<i>Phacelia</i> (Gibbs 2023)		ground	solitary
<i>Colletes hyalinus</i>	polylectic			ground	solitary
<i>Colletes impunctatus</i>	oligolectic	<i>Gayussacia</i> (Gibbs 2023)		ground	solitary
<i>Colletes inaequalis</i>	polylectic			ground	solitary
<i>Colletes kincaidii</i>	polylectic			ground	solitary
<i>Colletes latitarsis</i>	oligolectic	<i>Physalis</i> (Arduser)			
<i>Colletes mandibularis</i>	oligolectic	<i>Amorpha</i> , <i>Dalea</i> in early summer, <i>Heterotheca</i> , <i>Solidago</i> , <i>Chrysopsis</i> , etc. in late summer and early fall (Arduser)		ground	
<i>Colletes nudus</i>	oligolectic	<i>Rhus</i> (Arduser)			
<i>Colletes phaceliae</i>	oligolectic			ground	solitary
<i>Colletes robertsonii</i>	oligolectic	<i>Fabaceae</i> (Gibbs 2023), <i>Dalea</i> , <i>Amorpha canescens</i> (Arduser)		ground	solitary
<i>Colletes rufocinctus</i>	oligolectic	<i>Compositae</i> (Gibbs 2023), late summer Asteraceae genera (Arduser)		ground	solitary
<i>Colletes simulans</i>	oligolectic	<i>Solidago</i> , <i>Symphyotrichum</i> (Gibbs 2023 & Arduser)		ground	solitary
<i>Colletes solidaginis</i>	oligolectic	<i>Solidago</i> (Arduser)			
<i>Colletes speculiferus</i>	oligolectic	<i>Solidago</i> and other late-blooming Asteraceae (Arduser)			
<i>Colletes susannae</i>	oligolectic	<i>Dalea</i> (Gibbs 2023 & Arduser)		ground	solitary
<i>Colletes validus</i>	oligolectic	<i>Eriaceae</i> (Gibbs 2023), <i>Vaccinium</i> (Arduser)		ground	solitary
<i>Colletes willistoni</i>	oligolectic	<i>Physalis</i> (Gibbs 2023 & Arduser)		ground	solitary
<i>Colletes wilmattae</i>	oligolectic	<i>Dalea</i> (Arduser)			
<i>Hylaeus affinis</i>	polylectic			stems	solitary
<i>Hylaeus annulatus</i>	polylectic	<i>Rosaceae</i> (Gibbs 2023)		stems	solitary
<i>Hylaeus basalis</i>	polylectic	<i>Rosaceae</i> (Gibbs 2023)		stems	solitary
<i>Hylaeus fedorica</i>	polylectic			stems	solitary
<i>Hylaeus floridanus</i>	polylectic				
<i>Hylaeus illinoiensis</i>	polylectic			stems	solitary



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Scientific Name	Lecty	Host	Origin	Nest	Behavior
<i>Hylaeus leptocephalus</i>	polylectic	Facaceae (Gibb 2023)	non-native	stems	solitary
<i>Hylaeus mesillae</i>	polylectic			stems	solitary
<i>Hylaeus modestus</i>	polylectic			stems	solitary
<i>Hylaeus nelumbonis</i>	polylectic			stems	solitary
<i>Hylaeus rudbeckiae</i>	polylectic			stems	solitary
<i>Hylaeus saniculae</i>	polylectic			stems	solitary
<i>Hylaeus sparsus</i>	oligolectic	spring-flowering Apiaceae (Arduser)			
<i>Hylaeus verticalis</i>	polylectic			stems	solitary
<b>Family Halictidae—Sweat Bees</b>					
<i>Agapostemon angelicus</i>	polylectic				
<i>Agapostemon sericeus</i>	polylectic		ground	solitary	
<i>Agapostemon splendens</i>	polylectic		ground	solitary	
<i>Agapostemon texanus</i>	polylectic		ground	solitary	
<i>Agapostemon virescens</i>	polylectic		ground	communal	
<i>Augochlora pura</i>	polylectic		wood	solitary	
<i>Augochlorella aurata</i>	polylectic		ground	eusocial	
<i>Augochlorella persimilis</i>	polylectic		ground	eusocial	
<i>Augochloropsis humeralis</i>	polylectic		ground		
<i>Augochloropsis metallica</i>	polylectic		ground		
<i>Augochloropsis viridula</i>	polylectic		ground		
<i>Dieunomia heteropoda</i>	oligolectic	<i>Helianthus</i> + (Gibbs 2023 & Arduser)	ground	solitary	
<i>Dieunomia triangulifera</i>	oligolectic	<i>Helianthus</i> (Arduser)			
<i>Dufourea harveyi</i>	oligolectic	<i>Potentilla</i> (Gibbs 2023), <i>Dasiphora fruticosa</i> (Arduser)	ground	solitary	
<i>Dufourea marginata</i>	oligolectic	<i>Helianthus</i> (Gibbs 2023), <i>Rudeckia</i> , <i>Verbesina</i> (Arduser)	ground	solitary	
<i>Dufourea maura</i>	oligolectic	<i>Campanula</i> (Gibbs 2023 & Arduser)	ground	solitary	
<i>Dufourea monardae</i>	oligolectic	<i>Monarda</i> (Arduser)	ground	solitary	
<i>Dufourea novaeangliae</i>	oligolectic	<i>Pontederia</i> (Arduser)	ground	solitary	
<i>Halictus confusus</i>	polylectic		ground	eusocial	
<i>Halictus ligatus</i>	polylectic		ground	eusocial	
<i>Halictus parallelus</i>	polylectic		ground	eusocial	
<i>Halictus rubicundus</i>	polylectic		ground	eusocial	



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<i>Lasioglossum achilleae</i>	polylectic				
<i>Lasioglossum acuminatum</i>	polylectic	<i>Vaccinium</i> (Arduser)		ground	solitary
<i>Lasioglossum admirandum</i>	polylectic			ground	eusocial
<i>Lasioglossum albipenne</i>	polylectic			ground	eusocial
<i>Lasioglossum anomalum</i>	polylectic				
<i>Lasioglossum athabascense</i>	polylectic			ground	solitary
<i>Lasioglossum atwoodi</i>					
<i>Lasioglossum birkmanni</i>	polylectic				
<i>Lasioglossum bruneri</i>	polylectic				
<i>Lasioglossum cattellae</i>	polylectic				
<i>Lasioglossum cinctipes</i>	polylectic			ground	eusocial
<i>Lasioglossum coeruleum</i>	polylectic				
<i>Lasioglossum comagenense</i>	polylectic			ground	communal
<i>Lasioglossum coreopsis</i>	polylectic				
<i>Lasioglossum coriaceum</i>	polylectic			ground	solitary
<i>Lasioglossum cressonii</i>	polylectic			wood	eusocial
<i>Lasioglossum disparile</i>	polylectic				
<i>Lasioglossum dreisbachi</i>	polylectic			ground	eusocial
<i>Lasioglossum ellisiae</i>	polylectic			ground	solitary
<i>Lasioglossum ephialtum</i>	polylectic			ground	eusocial
<i>Lasioglossum floridanum</i>	polylectic				
<i>Lasioglossum foveolatum</i>					
<i>Lasioglossum foxii</i>	polylectic			ground	solitary
<i>Lasioglossum gotham</i>					
<i>Lasioglossum hartii</i>	polylectic				
<i>Lasioglossum heterognathus</i>					
<i>Lasioglossum hitchensi</i>	polylectic				
<i>Lasioglossum illinoense</i>	polylectic				
<i>Lasioglossum imitatum</i>	polylectic			ground	eusocial
<i>Lasioglossum inconditum</i>	polylectic			ground	solitary
<i>Lasioglossum izawsum</i>		<i>Lasioglossum</i> ( <i>Dialictus</i> ) (Gibbs 2011)			parasitic



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Scientific Name	Lecty	Host	Origin	Nest	Behavior
<i>Lasioglossum katherineae</i>					
<i>Lasioglossum laevissimum</i>	polylectic			ground	eusocial
<i>Lasioglossum leucocomus</i>	polylectic			ground	eusocial
<i>Lasioglossum leucozonium</i>	polylectic		non-native	ground	solitary
<i>Lasioglossum lineatulum</i>	polylectic			ground	eusocial
<i>Lasioglossum lionotus</i>					
<i>Lasioglossum lusorium</i>	oligolectic	Onagraceae (Gibbs 2023)		ground	solitary
<i>Lasioglossum lustrans</i>	oligolectic	<i>Pyrrhopappus, Krigia, Lactuca</i> (Arduser)			
<i>Lasioglossum macoupinense</i>	polylectic			ground	solitary
<i>Lasioglossum michiganense</i>		<i>Lasioglossum (Dialictus)</i> (Gibbs 2023)		ground	parasitic
<i>Lasioglossum nelumbonis</i>	oligolectic			ground	solitary
<i>Lasioglossum nigroviride</i>	polylectic			wood	eusocial
<i>Lasioglossum novascotiae</i>	polylectic			ground	eusocial
<i>Lasioglossum oblongum</i>	polylectic			wood	eusocial
<i>Lasioglossum obscurum</i>	polylectic				
<i>Lasioglossum occidentale</i>	polylectic			ground	eusocial
<i>Lasioglossum oceanicum</i>	polylectic				
<i>Lasioglossum paradmirandum</i>	polylectic				
<i>Lasioglossum paraforbesii</i>	polylectic				
<i>Lasioglossum pectinatum</i>	oligolectic	<i>Physalis</i> (Arduser)			
<i>Lasioglossum pectorale</i>	polylectic			ground	solitary
<i>Lasioglossum perpunctatum</i>	polylectic			ground	eusocial
<i>Lasioglossum pictum</i>	polylectic			ground	eusocial
<i>Lasioglossum pilosum</i>	polylectic			ground	eusocial
<i>Lasioglossum planatum</i>	polylectic			ground	eusocial
<i>Lasioglossum platyparius</i>	polylectic	<i>Lasioglossum (Dialictus)</i> (Gibbs 2011)			parasitic
<i>Lasioglossum pruinosum</i>	polylectic			ground	eusocial
<i>Lasioglossum quebecense</i>	polylectic			ground	solitary
<i>Lasioglossum rozeni</i>	polylectic	<i>Lasioglossum (Dialictus)</i> (Gibbs 2011)			parasitic
<i>Lasioglossum rufulipes</i>	polylectic			ground	solitary
<i>Lasioglossum sagax</i>	polylectic			ground	eusocial



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Scientific Name	Lecty	Host	Origin	Nest	Behavior
<i>Lasioglossum seillean</i>	polylectic			ground	solitary
<i>Lasioglossum semicaeruleum</i>	polylectic			ground	eusocial
<i>Lasioglossum smilacinae</i>	polylectic				
<i>Lasioglossum subversans</i>	polylectic			ground	eusocial
<i>Lasioglossum subviridatum</i>	polylectic			wood	eusocial
<i>Lasioglossum succinipenne</i>	polylectic			ground	eusocial
<i>Lasioglossum swenki</i>	polylectic			ground	solitary
<i>Lasioglossum taylorae</i>	polylectic			ground	eusocial
<i>Lasioglossum tegulare</i>	polylectic				
<i>Lasioglossum tenax</i>	polylectic			ground	solitary
<i>Lasioglossum testaceum</i>	polylectic				
<i>Lasioglossum texanum</i>	oligolectic	<i>Oenothera</i> (Arduser)			
<i>Lasioglossum timothyi</i>	polylectic			ground	eusocial
<i>Lasioglossum trigeminum</i>					
<i>Lasioglossum truncatum</i>	polylectic			ground	eusocial
<i>Lasioglossum versans</i>	polylectic			ground	eusocial
<i>Lasioglossum versatum</i>	polylectic			ground	eusocial
<i>Lasioglossum vierecki</i>	polylectic			ground	solitary
<i>Lasioglossum viridatum</i>	polylectic			ground	eusocial
<i>Lasioglossum weemsi</i>	polylectic				
<i>Lasioglossum zephyrus</i>	polylectic			ground	eusocial
<i>Lasioglossum zonulus</i>	polylectic		non-native	ground	solitary
<i>Nomia nortoni</i>					
<i>Nomia universitatis</i>	oligolectic	<i>Psoralidium tenuiflorum</i> (Arduser)			
<i>Sphecodes antennariae</i>					parasitic
<i>Sphecodes atlantis</i>				ground	parasitic
<i>Sphecodes banksii</i>		<i>Lasioglossum vierecki</i> (Gibbs 2023)		ground	parasitic
<i>Sphecodes clematidis</i>				ground	parasitic
<i>Sphecodes confertus</i>				ground	parasitic
<i>Sphecodes coronus</i>				ground	parasitic
<i>Sphecodes cressonii</i>				ground	parasitic



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<i>Sphecodes davisii</i>				ground	parasitic
<i>Sphecodes dichrous</i>				ground	parasitic
<i>Sphecodes fattigi</i>					parasitic
<i>Sphecodes galerus</i>					parasitic
<i>Sphecodes heraclei</i>					parasitic
<i>Sphecodes hydrangeae</i>					parasitic
<i>Sphecodes illinoensis</i>				ground	parasitic
<i>Sphecodes johnsonii</i>				ground	parasitic
<i>Sphecodes levis</i>				ground	parasitic
<i>Sphecodes mandibularis</i>				ground	parasitic
<i>Sphecodes minor</i>					parasitic
<i>Sphecodes nigricorpus</i>					parasitic
<i>Sphecodes pecosensis</i>				ground	parasitic
<i>Sphecodes pimpinellae</i>					parasitic
<i>Sphecodes phosphorus</i>				ground	parasitic
<i>Sphecodes ranunculi</i>					parasitic
<i>Sphecodes smilacinae</i>				ground	parasitic
<i>Sphecodes solonis</i>				ground	parasitic
<i>Sphecodes townesi</i>				ground	parasitic
<b>Family Megachilidae --Leaf-cutter, Mason Bees</b>					
<i>Anthidiellum boreale</i>	polylectic				
<i>Anthidium manicatum</i>	polylectic		non-native	cavities	solitary
<i>Anthidium oblongatum</i>	polylectic		non-native		
<i>Anthidium psoraleae</i>	oligolectic	<i>Psoralea</i> s.l. ( <i>Orbexilum</i> , <i>Psoralidium</i> , <i>Pediomelum</i> ) (Arduser)			
<i>Anthidium tenuiflorae</i>	polylectic	<i>Phacelia</i> (Gibbs 2023)		ground	solitary
<i>Ashmeadiella buconis</i>	oligolectic	<i>Compositae</i> (Gibbs 2023)		cavities	solitary
<i>Chelostoma philadelphi</i>	oligolectic	<i>Philadelphus</i> (Arduser)			
<i>Coelioxys alternatus</i>		<i>Megachile pugnata</i> (Gibbs 2023)		cavities	parasitic
<i>Coelioxys banksi</i>		<i>Megachile</i>			parasitic
<i>Coelioxys bisoncornuus</i>					parasitic
<i>Coelioxys funeralis</i>		<i>Megachile</i> (Gibbs 2023)		ground	parasitic



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Scientific Name	Lecty	Host	Origin	Nest	Behavior
<i>Coelioxys immaculatus</i>		<i>Megachile</i>			parasitic
<i>Coelioxys modestus</i>		<i>Megachile campanulae</i> (Gibbs 2023)		cavities	parasitic
<i>Coelioxys moestus</i>		<i>Megachile</i> (Gibbs 2023)		cavities	parasitic
<i>Coelioxys octodenatus</i>		<i>Megachile</i> (Gibbs 2023)		ground	parasitic
<i>Coelioxys porterae</i>		<i>Megachile</i> (Gibbs 2023)		cavities	parasitic
<i>Coelioxys rufitarsis</i>		<i>Megachile</i> (Gibbs 2023)		ground	parasitic
<i>Coelioxys sayi</i>		<i>Megachile</i>			parasitic
<i>Coelioxys sodalis</i>		<i>Megachile</i> (Gibbs 2023)		ground	parasitic
<i>Dianthidium parvum</i>	oligolectic	many genera (Arduser)		exterior surfaces	solitary
<i>Dianthidium pudicum</i>	oligolectic			exterior surfaces	solitary
<i>Dianthidium simile</i>	oligolectic	<i>Helianthus</i> (Arduser)		ground	solitary
<i>Heriades carinata</i>	polylectic			stems	solitary
<i>Heriades leavitti</i>	oligolectic	various Asteraceae (Arduser)			
<i>Heriades variolosa</i>	oligolectic	Compositae (Gibbs 2023), various Asteraceae (Arduser)		stems	solitary
<i>Hoplitis albifrons</i>	polylectic			stems	solitary
<i>Hoplitis pilosifrons</i>	polylectic			stems	solitary
<i>Hoplitis producta</i>	polylectic			stems	solitary
<i>Hoplitis spoliata</i>	polylectic			stems	solitary
<i>Hoplitis truncata</i>	polylectic			stems	solitary
<i>Megachile addenda</i>	oligolectic	<i>Tephrosia</i> (Arduser)			
<i>Megachile brevis</i>	polylectic			cavities	solitary
<i>Megachile campanulae</i>	oligolectic	<i>Campanula</i>		cavities	solitary
<i>Megachile centuncularis</i>	polylectic			cavities	solitary
<i>Megachile circumcincta</i>	polylectic			ground	solitary
<i>Megachile dakotensis</i>	polylectic	various genera (Arduser)		ground	solitary
<i>Megachile fortis</i>	polylectic	<i>Helianthus</i> (Arduser)		ground	solitary
<i>Megachile frigida</i>	polylectic			cavities	solitary
<i>Megachile frugalis</i>	oligolectic	various genera (Arduser)			
<i>Megachile gemula</i>	polylectic			cavities	solitary
<i>Megachile inermis</i>	polylectic			cavities	solitary
<i>Megachile inimica</i>	oligolectic	<i>Helianthus</i> and related genera (Arduser)			



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# Minnesota Bee Species List

Scientific Name	Lecty	Host	Origin	Nest	Behavior
<i>Megachile lapponica</i>	polylectic			cavities	solitary
<i>Megachile latimanus</i>	polylectic	various genera (Arduser)		ground	solitary
<i>Megachile melanophaea</i>	polylectic			ground	solitary
<i>Megachile mendica</i>	polylectic			cavities	solitary
<i>Megachile montivaga</i>	polylectic			stems	solitary
<i>Megachile parallela</i>	polylectic				
<i>Megachile petulans</i>	polylectic				
<i>Megachile pugnata</i>	oligolectic	Compositae (Gibbs 2023), various genera (Arduser)		cavities	solitary
<i>Megachile relativa</i>	polylectic			cavities	solitary
<i>Megachile rotundata</i>	polylectic	<i>Medicago, Melilotus</i> , other introduced legumes (Arduser)	non-native	cavities	solitary
<i>Megachile rugifrons</i>	polylectic				
<i>Megachile sculpturalis</i>	polylectic		non-native		
<i>Megachile texana</i>	polylectic			ground	solitary
<i>Osmia albiventris</i>	polylectic				
<i>Osmia atriventris</i>	polylectic			cavities	solitary
<i>Osmia bucephala</i>	polylectic			cavities	solitary
<i>Osmia caerulescens</i>	polylectic		non-native		
<i>Osmia collinsiae</i>	polylectic				
<i>Osmia conjuncta</i>	polylectic				
<i>Osmia cyaneonitens</i>	oligolectic	<i>Penstemon</i> (Portman)			solitary
<i>Osmia distincta</i>	oligolectic	<i>Penstemon</i> (Gibbs 2023 & Arduser)		cavities	solitary
<i>Osmia feltii</i>					
<i>Osmia georgica</i>	oligolectic	Asteraceae - vernal genera ( <i>Packera</i> , etc.) (Arduser)			
<i>Osmia inermis</i>	oligolectic	<i>Vaccinium</i> (Gibbs 2023)		exterior surfaces	solitary
<i>Osmia inspergens</i>	polylectic			exterior surfaces	solitary
<i>Osmia laticeps</i>	oligolectic	<i>Vaccinium</i> (Gibbs 2023 & Arduser)			solitary
<i>Osmia lignaria</i>	polylectic			cavities	solitary
<i>Osmia nearctica</i>	polylectic				solitary
<i>Osmia nigriventris</i>	polylectic	preference for <i>Vaccinium</i> (Rightmyer et al. 2010)		cavities	solitary
<i>Osmia proxima</i>				cavities	solitary
<i>Osmia pumila</i>	polylectic				



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# Minnesota Bee Species List

Scientific Name	Lecty	Host	Origin	Nest	Behavior
<i>Osmia simillima</i>	polylectic			cavities	solitary
<i>Osmia subarctica</i>	polylectic				solitary
<i>Osmia tersula</i>	polylectic			cavities	solitary
<i>Osmia virga</i>	oligolectic	<i>Vaccinium</i> (Gibbs 2023 & Arduser)			solitary
<i>Paranthidium jugatorium</i>	oligolectic	<i>Helianthus</i> (Arduser)			
<i>Pseudoanthidium nanum</i>			non-native		
<i>Stelis coarctatus</i>		<i>Heriades, Hoplitis</i> (Gibbs 2023)		cavities	parasitic
<i>Stelis foederalis</i>		<i>Hoplitis, Osmia</i> (Gibbs 2023)		cavities	parasitic
<i>Stelis labiata</i>		<i>Hoplitis</i> (Gibbs 2023)		cavities	parasitic
<i>Stelis lateralis</i>		<i>Hoplitis</i> (Gibbs 2023)		cavities	parasitic
<i>Stelis nitida</i>				cavities	parasitic
<i>Stelis permaculata</i>		<i>Heriades carinata</i> (Gibbs 2023)		cavities	parasitic
<i>Stelis subemarginata</i>		<i>Hoplitis, Osmia</i> (Gibbs 2023)		cavities	parasitic
<i>Trachusa zebrata</i>	oligolectic	<i>Helianthus</i> (Arduser)			
<b>Family Melittidae --Melittid Bees</b>					
<i>Macropis nuda</i>	oligolectic	<i>Lysimachia</i> (Gibbs 2023)		ground	solitary
<i>Macropis patellata</i>	oligolectic	<i>Lysimachia</i>		ground	solitary
<i>Macropis steironematis</i>	oligolectic	<i>Lysimachia</i>		ground	solitary