

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: Oligolectic 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 oligolectic 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
Family Andrenidae --Mining Bees					
<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 bisalicens</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	Compositae (Gibbs 2023), <i>Solidago</i> & <i>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> (Ardsuer)			
<i>Andrena frigida</i>	oligolectic	<i>Salix</i> (Gibbs 2023 & Ardsuer)		ground	solitary
<i>Andrena geranii</i>	oligolectic	<i>Hydrophyllum</i> (Ardsuer)			
<i>Andrena hynesii</i>	oligolectic	<i>Helianthus</i> (Ardsuer)			
<i>Andrena helianthi</i>	oligolectic	<i>Helianthus</i> (Gibbs 2023 & Ardsuer)		ground	solitary
<i>Andrena helianthiformis</i>	oligolectic	<i>Echinacea angustifolia</i> , <i>E. pallida</i> , <i>E. simulata</i> (Ardsuer)			
<i>Andrena hippotes</i>	polylectic			ground	solitary
<i>Andrena hirticincta</i>	oligolectic	<i>Solidago</i> , <i>Symphotrichum</i> (Gibbs 2023)		ground	solitary
<i>Andrena illinoensis</i>	polylectic			ground	solitary
<i>Andrena imitatrix</i>	polylectic			ground	solitary
<i>Andrena integra</i>	oligolectic	<i>Cornus</i> (Ardsuer)			
<i>Andrena krigiana</i>	oligolectic	<i>Krigia</i> (Ardsuer)			
<i>Andrena lupinorum</i>	oligolectic	Fabaceae (Gibbs 2023)		ground	solitary
<i>Andrena macoupinensis</i>	oligolectic	<i>Salix</i> (Ardsuer)			
<i>Andrena mandibularis</i>	polylectic				
<i>Andrena mariae</i>	oligolectic	<i>Salix</i> (Gibbs 2023 & Ardsuer)		ground	solitary
<i>Andrena melanochoa</i>	oligolectic	Rosaceae (Gibbs 2023), <i>Fragaria</i> , <i>Potentilla</i> (Ardsuer)		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 & Ardsuer)		ground	solitary
<i>Andrena nigrihirta</i>	polylectic			ground	solitary
<i>Andrena nivalis</i>	polylectic			ground	solitary
<i>Andrena nubecula</i>	oligolectic	<i>Solidago</i> , <i>Symphotrichum</i> (Gibbs 2023 & Ardsuer)		ground	solitary
<i>Andrena peckhami</i>		(Ardsuer)		ground	solitary
<i>Andrena perplexa</i>	polylectic				
<i>Andrena persimulata</i>	oligolectic	<i>Cornus</i> (Gibbs 2023 & Ardsuer)		ground	solitary
<i>Andrena phaceliae</i>	oligolectic	<i>Phacelia</i> (Ardsuer)			
<i>Andrena placata</i>	oligolectic	<i>Solidago</i> , <i>Symphotrichum</i> (Gibbs 2023), <i>Heterotheca</i> (Ardsuer)		ground	solitary
<i>Andrena platyparia</i>	oligolectic	<i>Cornus</i> (Ardsuer)			

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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, Trifloium, 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>	polylectic			ground	
<i>Calliopsis coloradensis</i>	oligolectic	Compositae (Gibbs 2023), summer, late 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 albitarsis</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), Asteraceae: 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)			
Family Apidae --Cuckoo, Digger, Bumble, Honey Bees					
<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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<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>Epeolus ainsliei</i>		likely <i>Colletes susannae</i> and possibly <i>C. wilmattae</i> (Gibbs 2023)		ground	parasitic
<i>Epeolus americanus</i>		<i>Colletes consors mesocopus</i> (Gibbs 2023)		ground	parasitic
<i>Epeolus autumnalis</i>		<i>Colletes compactus</i> (presumed)		ground	parasitic
<i>Epeolus bifasciatus</i>		<i>Colletes latitarsis</i> (presumed)		ground	parasitic
<i>Epeolus interruptus</i>		<i>Colletes aestivalis</i> , <i>C. brevicornis</i> , & <i>C. willistoni</i> are possible hosts (Gibbs 2023)		ground	parasitic
<i>Epeolus lectoides</i>		<i>Colletes latitarsis</i> (presumed)			parasitic
<i>Epeolus lectus</i>		<i>Colletes</i>			parasitic

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<i>Epeolus minimus</i>		<i>Colletes kincaidii</i> is a likely host (Gibbs 2023)		ground	parasitic
<i>Epeolus pusillus</i>		<i>Colletes compactus</i> and <i>C. americanus</i>			parasitic
<i>Epeolus 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 calliopsidis</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	Compositae (Gibbs 2023), various genera (Arduser)		ground	solitary
<i>Melissodes bimaculatus</i>	polylectic			ground	solitary
<i>Melissodes boltoniae</i>	oligolectic	various genera (Arduser)			
<i>Melissodes communis</i>	polylectic				
<i>Melissodes comptoides</i>	polylectic				
<i>Melissodes confusus</i>	oligolectic	Compositae (Gibbs 2023), various genera (Arduser)		ground	solitary
<i>Melissodes coreopsis</i>	oligolectic	Compositae (Gibbs 2023), various genera (Arduser)		ground	solitary
<i>Melissodes denticulatus</i>	oligolectic	<i>Vernonia</i> (Gibbs 2023 & Arduser)		ground	solitary
<i>Melissodes dentiventris</i>	oligolectic	<i>Symphotrichum</i> , <i>Solidago</i> (Arduser)			
<i>Melissodes desponsus</i>	oligolectic	<i>Cirsium</i> (Gibbs 2023 & Arduser)		ground	solitary
<i>Melissodes druriellus</i>	oligolectic	<i>Solidago</i> , <i>Symphotrichum</i> (Gibbs 2023), various genera (Arduser)		ground	solitary
<i>Melissodes gelidus</i>					
<i>Melissodes grindeliae</i>	oligolectic	various genera (Arduser)			
<i>Melissodes illatus</i>	oligolectic	Compositae (Gibbs 2023), various genera (Arduser)		ground	solitary
<i>Melissodes menuachus</i>	oligolectic	various genera (Arduser)			
<i>Melissodes niveus</i>	oligolectic	various 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</i> (<i>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</i> (<i>Melandrena</i> , <i>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</i> (<i>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</i> (<i>Melandrena</i>) (Gibbs 2023)		ground	parasitic
<i>Nomada maculata</i>		<i>Andrena</i> (<i>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 obliteratus</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>					

Minnesota Bee Species List

Scientific Name	Lecty	Host	Origin	Nest	Behavior
Family Colletidae --Cellophane, Plasterer and Masked bees					
<i>Colletes aberrans</i>	oligolectic	<i>Dalea</i> (Arduser)			
<i>Colletes albescens</i>	oligolectic	<i>Amorpha canescens</i> (Arduser)			
<i>Colletes americanus</i>	oligolectic	Compositae (Gibbs 2023), <i>Symphotrichum</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>Symphotrichum</i> , <i>Solidago</i> (Arduser)			
<i>Colletes consors</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	Fabaceae (Gibbs 2023), <i>Dalea</i> , <i>Amorpha canescens</i> (Arduser)		ground	solitary
<i>Colletes rufocinctus</i>	oligolectic	Compositae (Gibbs 2023), late summer Asteraceae genera (Arduser)		ground	solitary
<i>Colletes simulans</i>	oligolectic	<i>Solidago</i> , <i>Symphotrichum</i> (Gibbs 2023 & Arduser)		ground	solitary
<i>Colletes solidaginis</i>	oligolectic	<i>Solidago</i> (Arduser)			
<i>Colletes speculariferus</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	Eriaceae (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	Rosaceae (Gibbs 2023)		stems	solitary
<i>Hylaeus basalis</i>	polylectic	Rosaceae (Gibbs 2023)		stems	solitary
<i>Hylaeus fedorica</i>	polylectic			stems	solitary
<i>Hylaeus floridanus</i>	polylectic				
<i>Hylaeus illinoisensis</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
Family Halictidae–Sweet Bees					
<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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Scientific Name	Lecty	Host	Origin	Nest	Behavior
<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 laevisimum</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</i> (Dialictus) (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</i> (Dialictus) (Gibbs 2011)			parasitic
<i>Lasioglossum pruinosum</i>	polylectic			ground	eusocial
<i>Lasioglossum quebecense</i>	polylectic			ground	solitary
<i>Lasioglossum rozeni</i>	polylectic	<i>Lasioglossum</i> (Dialictus) (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>Psoraleum 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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Scientific Name	Lecty	Host	Origin	Nest	Behavior
<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 prosporus</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
Family Megachilidae --Leaf-cutter, Mason Bees					
<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>Pedimelum</i>) (Arduser)			
<i>Anthidium tenuiflorae</i>	polylectic	<i>Phacelia</i> (Gibbs 2023)		ground	solitary
<i>Ashmeadiella buconis</i>	oligolectic	Compositae (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 funerarius</i>		<i>Megachile</i> (Gibbs 2023)		ground	parasitic

Minnesota Bee Species List

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 octodentatus</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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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>	polylectic				solitary
<i>Osmia distincta</i>	oligolectic	<i>Penstemon</i> (Gibbs 2023 & Arduser)		cavities	solitary
<i>Osmia felti</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				

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 submarginata</i>		<i>Hoplitis, Osmia</i> (Gibbs 2023)		cavities	parasitic
<i>Trachusa zebrata</i>	oligolectic	<i>Helianthus</i> (Arduser)			
Family Melittidae --Melittid Bees					
<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