

Minnesota Bees—A Preliminary List

This list is under development. Species are expected to be added or removed as surveys are completed and specimen identifications are confirmed. The state species list of bees documented in Minnesota now stands at 466 species.

The list is the result of many contributors and support from the Minnesota Environment and Natural Resources Trust Fund (ENRTF). Existing information was obtained from 11 museum collections and 16 additional sources, including personal collections, student theses, informal reports, published literature, and recent survey data from collaborators. New records were obtained from field surveys by staff of the Minnesota Biological Survey, Department of Natural Resources. Identifications were confirmed by bee experts, Joel Gardner and Zack Portman, at the University of Minnesota. A special thanks goes to the numerous collection managers who provided access to historical specimens, in particular, the University of Minnesota Insect Collection, University of Minnesota Duluth, American Museum of Natural History, Illinois Natural History Survey, North Dakota State Insect Reference Collection, Wisconsin Insect Reference Collection, Iowa State Insect Collection, and Severin-McDaniel Insect Research Collection at South Dakota State University.

All information on flight season, nesting, sociality, and host plants/bees was provided by John Ascher, Research Scientist at the American Museum of Natural History.

Description of Categories

Flight Season: Numbers indicate months when a species is known to fly across its entire range. These data are not specific to Minnesota. For example, Minnesota has a shorter flight season than more southern states and bees do not fly prior to April. Brackets indicate atypical months.

Nest: Categories include Burrow, Cavity, Hive, Pithy Stems, Soil, and Wood.

Sociality: Categories include Solitary, Communal, Subsocial, Eusocial, and Parasite.

Plant [or Insect] Host: Some bees—including species called oligoleges—collect pollen from only certain plant taxa, which are listed here. Some bees parasitize other bee species, and their host taxa are listed in brackets.

Preliminary List of Minnesota Bees

Scientific Name	Flight Season	Nest	Sociality	Plant [or Insect] Host	
				Family	Genus
Plasterer, Yellow-faced Bees – Family Colletidae					
<i>Colletes aberrans</i>	6-8	Soil	Solitary		
<i>Colletes albescens</i>					
<i>Colletes americanus</i>					
<i>Colletes andrewsi</i>					
<i>Colletes brevicornis</i>	3-6	Soil	Solitary		
<i>Colletes compactus</i>					
<i>Colletes consors</i>	4-8	Soil	Solitary		
<i>Colletes hyalinus</i>	4-10	Soil	Solitary		
<i>Colletes impunctatus</i>	6-7	Soil	Solitary		
<i>Colletes inaequalis</i>	3-7 [8-9]	Soil	Solitary		
<i>Colletes kincaidii</i>	6-9	Soil	Solitary		
<i>Colletes latitarsis</i>	3-9	Soil	Solitary	Solanaceae	<i>Physalis</i>
<i>Colletes mandibularis</i>					
<i>Colletes nudus</i>					
<i>Colletes phaceliae</i>	6-9	Soil	Solitary		
<i>Colletes robertsonii</i>	6-8	Soil	Solitary		
<i>Colletes rufocinctus</i>	8-9	Soil	Solitary		
<i>Colletes simulans</i>	1, 5-11	Soil	Solitary	Asteraceae	
<i>Colletes solidaginis</i>	7-9	Soil	Solitary		
<i>Colletes speculiferus</i>	4-11	Soil	Solitary		
<i>Colletes susannaee</i>	7-8	Soil	Solitary		
<i>Colletes validus</i>					
<i>Colletes willistoni</i>					
<i>Colletes wilmattae</i>	6-9	Soil	Solitary		
<i>Hylaeus affinis</i>	4-10	Cavity	Solitary		
<i>Hylaeus annulatus</i>	4-10	Cavity	Solitary		
<i>Hylaeus basalis</i>	5-8	Cavity	Solitary	Rosaceae	
<i>Hylaeus fedorica</i>	6-7	Cavity	Solitary		
<i>Hylaeus floridanus</i>	4-10	Cavity	Solitary		
<i>Hylaeus illinoiensis</i>					
<i>Hylaeus leptocephalus</i>					
<i>Hylaeus mesillae</i>	4-10	Cavity	Solitary		
<i>Hylaeus modestus</i>	5-9	Cavity	Solitary		
<i>Hylaeus nelumbonis</i>					
<i>Hylaeus rudbeckiae</i>	5-10	Cavity	Solitary		
<i>Hylaeus saniculae</i>	6-8	Cavity	Solitary		
<i>Hylaeus sparsus</i>					
<i>Hylaeus verticalis</i>	4-8	Cavity	Solitary		
Mining Bees -- Family Andrenidae					
<i>Andrena algida</i>					



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					Family	Genus
<i>Andrena</i>	<i>aliciae</i>	7-9	Soil	Solitary	Asteraceae	
<i>Andrena</i>	<i>alleghaniensis</i>	4-7	Soil	Solitary		
<i>Andrena</i>	<i>andrenoides</i>	3-8	Soil	Solitary	Salicaceae	<i>Salix</i>
<i>Andrena</i>	<i>arabis</i>					
<i>Andrena</i>	<i>asteris</i>	8-10	Soil	Solitary	Asteraceae	
<i>Andrena</i>	<i>barbilabris</i>	3-7 [8-9]	Soil	Solitary		
<i>Andrena</i>	<i>bisalicis</i>	2-9	Soil	Solitary		
<i>Andrena</i>	<i>bradleyi</i>	3-9	Soil	Solitary	Ericaceae	
<i>Andrena</i>	<i>brevipalpis</i>	5-10	Soil	Solitary		
<i>Andrena</i>	<i>canadensis</i>	8-10	Soil	Solitary	Asteraceae	
<i>Andrena</i>	<i>carlini</i>	3-7 [8]	Soil	Solitary		
<i>Andrena</i>	<i>carolina</i>	4-7	Soil	Solitary	Ericaceae	<i>Vaccinium</i>
<i>Andrena</i>	<i>ceanothi</i>	5-6	Soil	Solitary		
<i>Andrena</i>	<i>chromotricha</i>	7-9	Soil	Solitary	Asteraceae	
<i>Andrena</i>	<i>clarkella</i>	3-8	Soil	Solitary	Salicaceae	<i>Salix</i>
<i>Andrena</i>	<i>collectina</i>					
<i>Andrena</i>	<i>commoda</i>	4-7	Soil	Solitary		
<i>Andrena</i>	<i>cragini</i>	5-6	Soil	Solitary		<i>Amorpha</i>
<i>Andrena</i>	<i>crataegi</i>	3-8	Soil	Solitary		
<i>Andrena</i>	<i>cressonii</i>	3-8	Soil	Solitary		
<i>Andrena</i>	<i>distans</i>					
<i>Andrena</i>	<i>dunningi</i>	2-7 [8]	Soil	Solitary		
<i>Andrena</i>	<i>erigeniae</i>					
<i>Andrena</i>	<i>erythrogaster</i>	2-7	Soil	Solitary	Salicaceae	<i>Salix</i>
<i>Andrena</i>	<i>erythronii</i>	3-6	Soil	Solitary		<i>Erythronium</i>
<i>Andrena</i>	<i>forbesii</i>	4-6	Soil	Solitary		
<i>Andrena</i>	<i>fragilis</i>					
<i>Andrena</i>	<i>frigida</i>	2-7	Soil	Solitary	Salicaceae	<i>Salix</i>
<i>Andrena</i>	<i>geranii</i>	4-7	Soil	Solitary		
<i>Andrena</i>	<i>haynesi</i>					
<i>Andrena</i>	<i>helianthi</i>	7-9	Soil	Solitary	Asteraceae	
<i>Andrena</i>	<i>helianthiformis</i>					
<i>Andrena</i>	<i>hippotes</i>	4-6	Soil	Solitary		
<i>Andrena</i>	<i>hirticincta</i>	8-10	Soil	Solitary	Asteraceae	
<i>Andrena</i>	<i>illinoiensis</i>	3-7	Soil	Solitary		
<i>Andrena</i>	<i>imitatrix</i>	3-7	Soil	Solitary		
<i>Andrena</i>	<i>integra</i>	5-8	Soil	Solitary	Cornaceae	<i>Cornus</i>
<i>Andrena</i>	<i>krigiana</i>	3-7	Soil	Solitary	Asteraceae	
<i>Andrena</i>	<i>lupinorum</i>	5-8	Soil	Solitary		
<i>Andrena</i>	<i>macoupinensis</i>					
<i>Andrena</i>	<i>mandibularis</i>	3-7	Soil	Solitary		

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Andrena	<i>mariae</i>	4-7	Soil	Solitary	Salicaceae	<i>Salix</i>
Andrena	<i>melanochroa</i>	3-7	Soil	Solitary	Rosaceae	
Andrena	<i>milwaukeensis</i>	3-8	Soil	Solitary		
Andrena	<i>miranda</i>	5-8	Soil	Solitary		
Andrena	<i>miserabilis</i>	1-7 [8-9]	Soil	Solitary		
Andrena	<i>nasonii</i>	3-7	Soil	Solitary		
Andrena	<i>nigrae</i>	3-7	Soil	Solitary		
Andrena	<i>nigrihirta</i>	3-8	Soil	Solitary		
Andrena	<i>nivalis</i>	2-8	Soil	Solitary		
Andrena	<i>nubecula</i>	7-10	Soil	Solitary	Asteraceae	
Andrena	<i>nuda</i>					
Andrena	<i>peckhami</i>	9	Soil	Solitary	Asteraceae	
Andrena	<i>perplexa</i>					
Andrena	<i>persimulata</i>	4-7	Soil	Solitary	Cornaceae	<i>Cornus</i>
Andrena	<i>placata</i>	7-9	Soil	Solitary	Asteraceae	
Andrena	<i>platyparia</i>	5-7	Soil	Solitary	Cornaceae	<i>Cornus</i>
Andrena	<i>polemonii</i>					
Andrena	<i>quintilis</i>	4-7	Soil	Solitary		
Andrena	<i>regularis</i>	4-7	Soil	Solitary		
Andrena	<i>robertsonii</i>	4-8	Soil	Solitary		
Andrena	<i>robervalensis</i>					
Andrena	<i>rudbeckiae</i>	6-8	Soil	Solitary	Asteraceae	
Andrena	<i>rufosignata</i>	4-8	Soil	Solitary		
Andrena	<i>rugosa</i>	3-6	Soil	Solitary		
Andrena	<i>runcinatae</i>	7-10	Soil	Solitary	Asteraceae	
Andrena	<i>salictaria</i>	3-6	Soil	Solitary	Salicaceae	<i>Salix</i>
Andrena	<i>sigmundi</i>	5-7	Soil	Solitary	Salicaceae	<i>Salix</i>
Andrena	<i>simplex</i>	7-9	Soil	Solitary	Asteraceae	
Andrena	<i>spiraeanana</i>	6-8	Soil	Solitary		
Andrena	<i>surda</i>					
Andrena	<i>thaspii</i>	4-8	Soil	Solitary		
Andrena	<i>tridens</i>	3-7	Soil	Solitary		
Andrena	<i>vicina</i>	3-7 [8-9]	Soil	Solitary		
Andrena	<i>virginiana</i>	6-8	Soil	Solitary		
Andrena	<i>wellesleyana</i>	3-7	Soil	Solitary	Salicaceae	<i>Salix</i>
Andrena	<i>wheeleri</i>	4-7	Soil	Solitary		
Andrena	<i>wilkella</i>	4-9	Soil	Solitary		
Andrena	<i>w-scripta</i>	2-9 [10]	Soil	Solitary		
Andrena	<i>ziziae</i>	4-6 [7, 9]	Soil	Solitary		
Andrena	<i>wilmattae</i>	5-7	Soil	Solitary		
Calliopsis	<i>andreniformis</i>	4-10	Soil	Solitary	esp. Fabaceae	



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					Family	Genus
<i>Calliopsis</i>	<i>coloradensis</i>	6-10	Soil	Solitary	Asteraceae	
<i>Calliopsis</i>	<i>nebraskensis</i>	6-9	Soil	Solitary	Verbenaceae	<i>Verbena</i>
<i>Perdita</i>	<i>albibennis</i>	6-9	Soil	Solitary	Asteraceae	<i>Helianthus</i>
<i>Perdita</i>	<i>bequaerti</i>	7-10	Soil	Solitary	Asteraceae	
<i>Perdita</i>	<i>brunneri</i>					
<i>Perdita</i>	<i>fallax</i>					
<i>Perdita</i>	<i>halictoides</i>					
<i>Perdita</i>	<i>maculigera</i>	3-7	Soil	Solitary	Salicaceae	<i>Salix</i>
<i>Perdita</i>	<i>octomaculata</i>	7-10	Soil	Solitary	Asteraceae	
<i>Perdita</i>	<i>perpallida</i>	7-8	Soil	Solitary	Fabaceae	<i>Dalea</i>
<i>Perdita</i>	<i>swenki</i>	7-9	Soil	Solitary	Asteraceae	
<i>Protandrena</i>	<i>bancrofti</i>					
<i>Pseudopanurgus</i>	<i>aestivalis</i>	8-9	Soil	Solitary	Asteraceae	
<i>Pseudopanurgus</i>	<i>albitarsis</i>					
<i>Pseudopanurgus</i>	<i>andrenoides</i>	8-10	Soil	Solitary	Asteraceae	
<i>Pseudopanurgus</i>	<i>labrosus</i>	7-9	Soil	Solitary	Asteraceae	
<i>Pseudopanurgus</i>	<i>parvus</i>					
<i>Pseudopanurgus</i>	<i>pauper</i>	7	Soil	Solitary	Rhamnaceae	<i>Ceanothus</i>
<i>Pseudopanurgus</i>	<i>rudbeckiae</i>					
<i>Pseudopanurgus</i>	<i>simulans</i>		Soil	Solitary	Asteraceae	
<i>Pseudopanurgus</i>	<i>solidaginus</i>					
Sweat Bees -- Family Halictidae						
<i>Agapostemon</i>	<i>sericeus</i>	4-10	Soil	Solitary, Communal		
<i>Agapostemon</i>	<i>splendens</i>	4-8	Soil	Solitary, Communal		
<i>Agapostemon</i>	<i>texanus</i>	4-9	Soil	Solitary, Communal		
<i>Agapostemon</i>	<i>virescens</i>	5-10	Soil	Solitary, Communal		
<i>Augochlora</i>	<i>pura</i>	4-10	Wood	Solitary		
<i>Augochlorella</i>	<i>aurata</i>	4-10	Soil	Eusocial		
<i>Augochlorella</i>	<i>persimilis</i>	3-9	Soil	Eusocial		
<i>Augochloropsis</i>	<i>metallica</i>	3-11	Soil	Solitary		
<i>Augochloropsis</i>	<i>sumptuosa</i>					
<i>Dieunomia</i>	<i>heteropoda</i>	6-10	Soil	Solitary, Communal	Asteraceae	<i>Helianthus</i>
<i>Dieunomia</i>	<i>triangulifera</i>	8-10	Soil	Solitary, Communal		
<i>Dufourea</i>	<i>maura</i>					
<i>Dufourea</i>	<i>marginata</i>	6-9	Soil	Solitary	Asteraceae	
<i>Dufourea</i>	<i>monardae</i>	7-8	Soil	Solitary	Lamiaceae	<i>Monarda</i>
<i>Dufourea</i>	<i>novaehangliae</i>					
<i>Halictus</i>	<i>confusus</i>	4-10	Soil	Eusocial		
<i>Halictus</i>	<i>ligatus</i>	1-12	Soil	Eusocial		
<i>Halictus</i>	<i>parallelus</i>	3-8	Soil	Eusocial		
<i>Halictus</i>	<i>rubicundus</i>	3-9	Soil	Eusocial		

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					Family	Genus
<i>Lasioglossum</i>	<i>abanci</i>					
<i>Lasioglossum</i>	<i>acuminatum</i>	4-10	Soil	Solitary, Communal		
<i>Lasioglossum</i>	<i>admirandum</i>	3-9	Soil	Eusocial		
<i>Lasioglossum</i>	<i>albipenne</i>	5-9	Soil	Eusocial		
<i>Lasioglossum</i>	<i>anomalum</i>	5-9	Soil	Eusocial		
<i>Lasioglossum</i>	<i>athabascense</i>	4-10	Soil	Solitary, Communal		
<i>Lasioglossum</i>	<i>atwoodi</i>					
<i>Lasioglossum</i>	<i>birkmanni</i>	4-9	Soil	Solitary		
<i>Lasioglossum</i>	<i>bruneri</i>					
<i>Lasioglossum</i>	<i>callidum</i>	3-10	Soil	Eusocial		
<i>Lasioglossum</i>	<i>cattellae</i>					
<i>Lasioglossum</i>	<i>cinctipes</i>	3-9	Soil	Eusocial		
<i>Lasioglossum</i>	<i>coeruleum</i>	3-10	Wood	Eusocial		
<i>Lasioglossum</i>	<i>comagenense</i>	6-7	Soil	Eusocial		
<i>Lasioglossum</i>	<i>coriaceum</i>	3-10	Soil	Solitary, Communal		
<i>Lasioglossum</i>	<i>cressonii</i>	3-10	Wood	Eusocial		
<i>Lasioglossum</i>	<i>divergens</i>					
<i>Lasioglossum</i>	<i>dreisbachi</i>	5-8	Soil	Eusocial		
<i>Lasioglossum</i>	<i>ellisiae</i>		Soil	Eusocial		
<i>Lasioglossum</i>	<i>ephialtum</i>	6-9	Soil	Eusocial		
<i>Lasioglossum</i>	<i>fattigi</i>					
<i>Lasioglossum</i>	<i>floridanum</i>					
<i>Lasioglossum</i>	<i>foveolatum</i>					
<i>Lasioglossum</i>	<i>foxii</i>	4-9	Soil	Solitary		
<i>Lasioglossum</i>	<i>hartii</i>	5-8	Soil	Eusocial		
<i>Lasioglossum</i>	<i>heterognathum</i>	4-9	Soil	Eusocial		
<i>Lasioglossum</i>	<i>hitchensi</i>					
<i>Lasioglossum</i>	<i>illinoense</i>	3-10	Soil	Eusocial		
<i>Lasioglossum</i>	<i>imitatum</i>	4-10	Soil	Eusocial		
<i>Lasioglossum</i>	<i>inconditum</i>		Soil			
<i>Lasioglossum</i>	<i>katherineae</i>					
<i>Lasioglossum</i>	<i>laevissimum</i>	3-10	Soil	Eusocial		
<i>Lasioglossum</i>	<i>leucocomum</i>	5-8	Soil	Eusocial		
<i>Lasioglossum</i>	<i>leucozonium</i>	5-10	Soil	Solitary, Communal		
<i>Lasioglossum</i>	<i>lineatulum</i>	4-10	Soil	Eusocial		
<i>Lasioglossum</i>	<i>lustrans</i>					
<i>Lasioglossum</i>	<i>macoupinense</i>	6-7	Soil	Solitary		
<i>Lasioglossum</i>	<i>nelumboonis</i>	3-11	Soil	Solitary	Nymphaeales	
<i>Lasioglossum</i>	<i>nigroviride</i>					
<i>Lasioglossum</i>	<i>novascotiae</i>					
<i>Lasioglossum</i>	<i>oblongum</i>	3-10	Wood	Eusocial		



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<i>Lasioglossum</i>	<i>obscurum</i>	4-10	Soil	Eusocial		
<i>Lasioglossum</i>	<i>oceanicum</i>	4-10	Soil	Eusocial		
<i>Lasioglossum</i>	<i>paradmirandum</i>	4-9	Soil	Eusocial		
<i>Lasioglossum</i>	<i>paraforbesii</i>	4-10	Soil	Solitary, Communal		
<i>Lasioglossum</i>	<i>pectinatum</i>					
<i>Lasioglossum</i>	<i>pectorale</i>	3-11	Soil	Solitary		
<i>Lasioglossum</i>	<i>perpunctatum</i>	4-9	Soil	Eusocial		
<i>Lasioglossum</i>	<i>pictum</i>	4-9	Soil	Eusocial		
<i>Lasioglossum</i>	<i>pilosum</i>					
<i>Lasioglossum</i>	<i>planatum</i>					
<i>Lasioglossum</i>	<i>platyparium</i>	10-11	Soil	Parasite	[Halictidae]	[<i>Lasioglossum</i>]
<i>Lasioglossum</i>	<i>pruinosum</i>	3-10	Soil	Eusocial		
<i>Lasioglossum</i>	<i>quebecense</i>	3-9	Soil			
<i>Lasioglossum</i>	<i>rufulipes</i>					
<i>Lasioglossum</i>	<i>sagax</i>					
<i>Lasioglossum</i>	<i>seillean</i>					
<i>Lasioglossum</i>	<i>semicaeruleum</i>	8	Soil	Eusocial		
<i>Lasioglossum</i>	<i>smilacinae</i>					
<i>Lasioglossum</i>	<i>subversans</i>					
<i>Lasioglossum</i>	<i>subviridatum</i>					
<i>Lasioglossum</i>	<i>succinipenne</i>		Soil	Eusocial		
<i>Lasioglossum</i>	<i>swenki</i>		Soil	Solitary		
<i>Lasioglossum</i>	<i>taylorae</i>					
<i>Lasioglossum</i>	<i>tegulare</i>					
<i>Lasioglossum</i>	<i>tenax</i>					
<i>Lasioglossum</i>	<i>testaceum</i>	7	Soil	Eusocial		
<i>Lasioglossum</i>	<i>texanum</i>	4-12	Soil	Solitary, Communal	Onagraceae	<i>Oenothera</i>
<i>Lasioglossum</i>	<i>timothyi</i>					
<i>Lasioglossum</i>	<i>truncatum</i>	3-10	Soil	Eusocial		
<i>Lasioglossum</i>	<i>versans</i>	4-10	Soil	Eusocial		
<i>Lasioglossum</i>	<i>versatum</i>	4-11	Soil	Eusocial		
<i>Lasioglossum</i>	<i>vierecki</i>	4-9	Soil	Eusocial		
<i>Lasioglossum</i>	<i>viridatum</i>					
<i>Lasioglossum</i>	<i>zephyrum</i>	3-10	Soil	Eusocial		
<i>Lasioglossum</i>	<i>zonulum</i>	4-10	Soil	Solitary, Communal		
<i>Nomia</i>	<i>nortoni</i>					
<i>Nomia</i>	<i>universitatis</i>	6-9	Soil	Solitary, Communal		
<i>Sphecodes</i>	<i>atlantis</i>	5-9	Soil	Parasite		
<i>Sphecodes</i>	<i>banksii</i>	4-9	Soil	Parasite		
<i>Sphecodes</i>	<i>clematidis</i>					
<i>Sphecodes</i>	<i>confertus</i>	3-8	Soil	Parasite		



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					Family	Genus
<i>Sphecodes</i>	<i>coronus</i>	6-9	Soil	Parasite		
<i>Sphecodes</i>	<i>cressonii</i>	1, 4-9	Soil	Parasite		
<i>Sphecodes</i>	<i>davisii</i>	5-10	Soil	Parasite		
<i>Sphecodes</i>	<i>dichrous</i>	4-9	Soil	Parasite		
<i>Sphecodes</i>	<i>fattigi</i>	4-8	Soil	Parasite		
<i>Sphecodes</i>	<i>galerus</i>					
<i>Sphecodes</i>	<i>heraclei</i>					
<i>Sphecodes</i>	<i>illinoensis</i>	5-10	Soil	Parasite		
<i>Sphecodes</i>	<i>johsonii</i>					
<i>Sphecodes</i>	<i>levis</i>	5-8	Soil	Parasite		
<i>Sphecodes</i>	<i>mandibularis</i>	5-8	Soil	Parasite		
<i>Sphecodes</i>	<i>minor</i>					
<i>Sphecodes</i>	<i>pimpinellae</i>	5-9	Soil	Parasite		
<i>Sphecodes</i>	<i>prosphorus</i>	5-9	Soil	Parasite		
<i>Sphecodes</i>	<i>ranunculi</i>	4-7	Soil	Parasite		
<i>Sphecodes</i>	<i>solonis</i>	5-8	Soil	Parasite		
Melittid Bees -- Family Melittidae						
<i>Macropis</i>	<i>ciliata</i>					
<i>Macropis</i>	<i>nuda</i>	6-8	Soil	Solitary	Primulaceae	<i>Lysimachia</i>
<i>Macropis</i>	<i>patellata</i>					
<i>Macropis</i>	<i>steironematis</i>	6-7	Soil	Solitary	Primulaceae	<i>Lysimachia</i>
Leaf-cutter, Mason Bees -- Family Megachilidae						
<i>Anthidiellum</i>	<i>notatum</i>					
<i>Anthidium</i>	<i>manicatum</i>	6-10	Cavity	Solitary		
<i>Anthidium</i>	<i>oblongatum</i>	6-10	Cavity	Solitary		
<i>Anthidium</i>	<i>psoraleae</i>	7	Cavity	Solitary		
<i>Anthidium</i>	<i>tenuiflorae</i>					
<i>Ashmeadiella</i>	<i>bucconis</i>					
<i>Coelioxys</i>	<i>alternata</i>	6-10	Cavity	Parasite		
<i>Coelioxys</i>	<i>banksi</i>	4-9	Cavity	Parasite		
<i>Coelioxys</i>	<i>bisoncornua</i>	7-9	Cavity	Parasite		
<i>Coelioxys</i>	<i>funeraria</i>	5-9	Cavity	Parasite		
<i>Coelioxys</i>	<i>immaculata</i>					
<i>Coelioxys</i>	<i>modesta</i>					
<i>Coelioxys</i>	<i>moesta</i>	5-9	Cavity	Parasite		
<i>Coelioxys</i>	<i>octodentata</i>	5-10	Cavity	Parasite		
<i>Coelioxys</i>	<i>porterae</i>	6-9	Cavity	Parasite		
<i>Coelioxys</i>	<i>rufitarsis</i>	4-10	Cavity	Parasite		
<i>Coelioxys</i>	<i>sayi</i>	3-10	Cavity	Parasite		
<i>Coelioxys</i>	<i>sodalis</i>	4-9	Cavity	Parasite		
<i>Coelioxys</i>	<i>texana</i>	3-11	Cavity	Parasite		

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Scientific Name		Flight Season	Nest	Sociality	Plant [or Insect] Host	
					Family	Genus
<i>Dianthidium</i>	<i>simile</i>	7-9	Cavity	Solitary		
<i>Heriades</i>	<i>carinata</i>	4-9	Cavity	Solitary		
<i>Heriades</i>	<i>leavitti</i>					
<i>Heriades</i>	<i>variolosa</i>	4-9	Cavity	Solitary		
<i>Hoplitis</i>	<i>albifrons</i>	5-8	Pithy stems	Solitary		
<i>Hoplitis</i>	<i>pilosifrons</i>	4-7	Pithy stems	Solitary		
<i>Hoplitis</i>	<i>producta</i>	4-7	Pithy stems	Solitary		
<i>Hoplitis</i>	<i>spoliata</i>	4-8	Pithy stems	Solitary		
<i>Hoplitis</i>	<i>truncata</i>	4-8	Pithy stems	Solitary		
<i>Megachile</i>	<i>addenda</i>					
<i>Megachile</i>	<i>brevis</i>	3-12	Cavity	Solitary		
<i>Megachile</i>	<i>campanulae</i>	2-11	Cavity	Solitary		
<i>Megachile</i>	<i>centricularis</i>	5-9	Cavity	Solitary		
<i>Megachile</i>	<i>dakotensis</i>	7-8	Ground?	Solitary		
<i>Megachile</i>	<i>fortis</i>	7-8		Solitary		
<i>Megachile</i>	<i>frigida</i>	6-9	Cavity	Solitary		
<i>Megachile</i>	<i>gemula</i>	4-8	Cavity	Solitary		
<i>Megachile</i>	<i>inermis</i>	6-9	Cavity	Solitary		
<i>Megachile</i>	<i>lapponica</i>	6-8	Cavity	Solitary		
<i>Megachile</i>	<i>latimanus</i>	5-10	Soil	Solitary		
<i>Megachile</i>	<i>melanophaea</i>	5-8	Soil	Solitary		
<i>Megachile</i>	<i>mendica</i>	5-10	Cavity	Solitary		
<i>Megachile</i>	<i>montivaga</i>	4-9	Cavity	Solitary		
<i>Megachile</i>	<i>parallela</i>					
<i>Megachile</i>	<i>perihirta</i>					
<i>Megachile</i>	<i>pugnata</i>	6-9	Cavity	Solitary	Asteraceae	
<i>Megachile</i>	<i>relativa</i>	5-10	Cavity	Solitary		
<i>Megachile</i>	<i>rotundata</i>	6-9	Cavity	Solitary		
<i>Megachile</i>	<i>rubifrons</i>					
<i>Megachile</i>	<i>sculpturalis</i>					
<i>Megachile</i>	<i>texana</i>	6-8	Cavity	Solitary		
<i>Osmia</i>	<i>albiventris</i>	5-7	Cavity	Solitary		
<i>Osmia</i>	<i>atriventris</i>	4-7	Cavity	Solitary		
<i>Osmia</i>	<i>bucephala</i>	4-6	Cavity	Solitary		
<i>Osmia</i>	<i>caerulescens</i>	3-8	Cavity	Solitary		
<i>Osmia</i>	<i>collinsiae</i>	4-6	Cavity	Solitary		
<i>Osmia</i>	<i>conjuncta</i>	4-7	Cavity	Solitary		
<i>Osmia</i>	<i>cyanonitens</i>					
<i>Osmia</i>	<i>distincta</i>	5-6	Cavity	Solitary		
<i>Osmia</i>	<i>feltii</i>	6	Cavity	Solitary		
<i>Osmia</i>	<i>georgica</i>					



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					Family	Genus
Osmia	<i>lignaria</i>					
Osmia	<i>nigriventris</i>		Cavity	Solitary		
Osmia	<i>proxima</i>					
Osmia	<i>pumila</i>	4-7	Cavity	Solitary		
Osmia	<i>scullenii</i>		Cavity	Solitary		
Osmia	<i>simillima</i>	5-8	Cavity	Solitary		
Osmia	<i>subarctica</i>					
Osmia	<i>tersula</i>	5-7	Cavity	Solitary		
Osmia	<i>virga</i>	4-7	Cavity	Solitary	Ericaceae	
Paranthidium	<i>jugatorium</i>	7-9	Soil	Solitary		
Stelis	<i>coarctatus</i>	6-8	Cavity	Parasite	[Megachilidae]	
Stelis	<i>foederalis</i>	5-7	Cavity	Parasite	[Megachilidae]	
Stelis	<i>labiata</i>					
Stelis	<i>lateralis</i>	3-7	Cavity	Parasite	[Megachilidae]	
Stelis	<i>nitida</i>					
Stelis	<i>subemarginata</i>					
Trachusa	<i>zebrata</i>					
Cuckoo, Digger, Bumble, Honey Bees -- Family Apidae						
Anthophora	<i>bombooides</i>	3-8	Burrow	Solitary		
Anthophora	<i>terminalis</i>	5-9	Wood	Solitary		
Anthophora	<i>walshii</i>	7-8	Soil	Solitary		
Apis	<i>mellifera</i>	1-12	Hive	Eusocial		
Bombus	<i>affinis</i>	4-10	Hive	Eusocial		
Bombus	<i>auricomus</i>	5-10	Hive	Eusocial		
Bombus	<i>bimaculatus</i>	2-9	Hive	Eusocial		
Bombus	<i>bohemicus</i>	5-10	Hive	Parasite	[Apidae]	[Bombus]
Bombus	<i>borealis</i>	5-10	Hive	Eusocial		
Bombus	<i>citrinus</i>	5-10	Hive	Parasite	[Apidae]	[Bombus]
Bombus	<i>ernaldae</i>					
Bombus	<i>fervidus</i>	4-10	Hive	Eusocial		
Bombus	<i>fraternus</i>					
Bombus	<i>frigidus</i>					
Bombus	<i>griseocollis</i>	2-10	Hive	Eusocial		
Bombus	<i>huntii</i>					
Bombus	<i>impatiens</i>	1-11	Hive	Eusocial		
Bombus	<i>insularis</i>	3-10	Hive	Parasite	[Apidae]	[Bombus]
Bombus	<i>melanopygus</i>					
Bombus	<i>pensylvanicus</i>	4-10	Hive	Eusocial		
Bombus	<i>perplexus</i>	4-10	Hive	Eusocial		
Bombus	<i>rufocinctus</i>	2-10	Hive	Eusocial		
Bombus	<i>sandersoni</i>	4-10	Hive	Eusocial		



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					Family	Genus
<i>Bombus</i>	<i>suckleyi</i>					
<i>Bombus</i>	<i>ternarius</i>	4-10	Hive	Eusocial		
<i>Bombus</i>	<i>terricola</i>	4-10	Hive	Eusocial		
<i>Bombus</i>	<i>vagans</i>	5-10	Hive	Eusocial		
<i>Bombus</i>	<i>variabilis</i>					
<i>Ceratina</i>	<i>calcarata</i>	3-10	Pithy stems	Subsocial		
<i>Ceratina</i>	<i>dupla</i>					
<i>Ceratina</i>	<i>mikmaqi</i>					
<i>Epeorus</i>	<i>ainsliei</i>					
<i>Epeorus</i>	<i>autumnalis</i>	7-10 [6]	Soil	Parasite	[Colletidae]	[<i>Colletes</i>]
<i>Epeorus</i>	<i>bifasciatus</i>	2-9	Soil	Parasite	[Colletidae]	[<i>Colletes</i>]
<i>Epeorus</i>	<i>interruptus</i>					
<i>Epeorus</i>	<i>lectoides</i>					
<i>Epeorus</i>	<i>minimus</i>					
<i>Epeorus</i>	<i>pusillus</i>					
<i>Epeorus</i>	<i>scutellaris</i>	6-10	Soil	Parasite	[Colletidae]	[<i>Colletes</i>]
<i>Eucera</i>	<i>atriventris</i>	3-8	Soil	Solitary		
<i>Eucera</i>	<i>dubitata</i>	3-6	Soil	Solitary		
<i>Eucera</i>	<i>hamata</i>	4-8	Soil	Solitary		
<i>Holcopasites</i>	<i>calliopsisidis</i>	5-10	Soil	Parasite	[Andrenidae]	
<i>Melissodes</i>	<i>agilis</i>	5-11	Soil	Solitary	Asteraceae	
<i>Melissodes</i>	<i>bidentis</i>	7-8	Soil	Solitary	Asteraceae	
<i>Melissodes</i>	<i>bimaculatus</i>	2-10	Soil	Solitary		
<i>Melissodes</i>	<i>boltoniae</i>	7-11	Soil	Solitary	Asteraceae	
<i>Melissodes</i>	<i>comptoides</i>					
<i>Melissodes</i>	<i>confusus</i>	8	Soil	Solitary	Asteraceae	
<i>Melissodes</i>	<i>coreopsis</i>	6-10	Soil	Solitary	Asteraceae	
<i>Melissodes</i>	<i>denticulatus</i>	5-10	Soil	Solitary	Asteraceae	
<i>Melissodes</i>	<i>dentiventris</i>					
<i>Melissodes</i>	<i>desponsus</i>	6-10	Soil	Solitary	Asteraceae	<i>Cirsium</i>
<i>Melissodes</i>	<i>druriellus</i>	5-11	Soil	Solitary	Asteraceae	
<i>Melissodes</i>	<i>grindeliae</i>		Soil	Solitary	Asteraceae	
<i>Melissodes</i>	<i>illatus</i>	7-9	Soil	Solitary	Asteraceae	
<i>Melissodes</i>	<i>menuachus</i>	7-10	Soil	Solitary	Asteraceae	
<i>Melissodes</i>	<i>niveus</i>	7-10	Soil	Solitary	Asteraceae	
<i>Melissodes</i>	<i>rivalis</i>	5-10	Soil	Solitary	Asteraceae	<i>Cirsium</i>
<i>Melissodes</i>	<i>snowii</i>					
<i>Melissodes</i>	<i>subagilis</i>			Solitary	Asteraceae	
<i>Melissodes</i>	<i>subbillatus</i>	6-9	Soil	Solitary	Asteraceae	
<i>Melissodes</i>	<i>tinctus</i>	8-12	Soil	Solitary	Asteraceae	
<i>Melissodes</i>	<i>trinodis</i>	7-10	Soil	Solitary	Asteraceae	



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					Family	Genus
<i>Melissodes</i>	<i>wheeleri</i>	4-10	Soil	Solitary	Asteraceae	
<i>Nomada</i>	<i>aquilarum</i>	7-8	Soil	Parasite		
<i>Nomada</i>	<i>arenicola</i>					
<i>Nomada</i>	<i>armatella</i>					
<i>Nomada</i>	<i>articulata</i>	5-7	Soil	Parasite	[Halictidae]	[Agapostemon]
<i>Nomada</i>	<i>australis</i>	4-6	Soil	Parasite	[Halictidae]	[Agapostemon]
<i>Nomada</i>	<i>banksi</i>					
<i>Nomada</i>	<i>bella</i>	3-4	Soil	Parasite	[Andrenidae]	[Andrena]
<i>Nomada</i>	<i>bethunei</i>					
<i>Nomada</i>	<i>composita</i>					
<i>Nomada</i>	<i>cressonii</i>	4-7	Soil	Parasite	[Andrenidae]	[Andrena]
<i>Nomada</i>	<i>cuneata</i>	6 [10]	Soil	Parasite	[Andrenidae]	[Andrena]
<i>Nomada</i>	<i>denticulata</i>					
<i>Nomada</i>	<i>depressa</i>	4-7	Soil	Parasite	[Andrenidae]	[Andrena]
<i>Nomada</i>	<i>erigeronis</i>	5	Soil	Parasite		
<i>Nomada</i>	<i>fervida</i>	6-8	Soil	Parasite	[Halictidae]	[Agapostemon]
<i>Nomada</i>	<i>florilega</i>					
<i>Nomada</i>	<i>gracilis</i>	4-6	Soil	Parasite	[Andrenidae]	[Andrena]
<i>Nomada</i>	<i>graenicheri</i>					
<i>Nomada</i>	<i>illinoensis</i>	4-6	Soil	Parasite	[Andrenidae]	[Andrena]
<i>Nomada</i>	<i>imbricata</i>	4-6	Soil	Parasite	[Andrenidae]	[Andrena]
<i>Nomada</i>	<i>integerrima</i>	3-8	Soil	Parasite	[Andrenidae]	[Andrena]
<i>Nomada</i>	<i>lehighensis</i>	4	Soil	Parasite	[Andrenidae]	[Andrena]
<i>Nomada</i>	<i>lepida</i>	5-7	Soil	Parasite	[Andrenidae]	[Andrena]
<i>Nomada</i>	<i>louisianae</i>	5	Soil	Parasite	[Andrenidae]	[Andrena]
<i>Nomada</i>	<i>luteoloides</i>	4-7	Soil	Parasite	[Andrenidae]	[Andrena]
<i>Nomada</i>	<i>maculata</i>	4-6	Soil	Parasite	[Andrenidae]	[Andrena]
<i>Nomada</i>	<i>obliterata</i>	5-6	Soil	Parasite	[Andrenidae]	[Andrena]
<i>Nomada</i>	<i>ovata</i>	5-6	Soil	Parasite	[Andrenidae]	[Andrena]
<i>Nomada</i>	<i>perplexa</i>	6-7	Soil	Parasite	[Andrenidae]	[Andrena]
<i>Nomada</i>	<i>pygmaea</i>	4-6 [8]	Soil	Parasite	[Andrenidae]	[Andrena]
<i>Nomada</i>	<i>rubi</i>		Soil	Parasite	[Andrenidae]	[Andrena]
<i>Nomada</i>	<i>rubicunda</i>	5-7	Soil	Parasite		
<i>Nomada</i>	<i>sayi</i>	4-7	Soil	Parasite	[Andrenidae]	[Andrena]
<i>Nomada</i>	<i>superba</i>					
<i>Nomada</i>	<i>tiftonensis</i>					
<i>Nomada</i>	<i>vegana</i>					
<i>Nomada</i>	<i>vicina</i>					
<i>Nomada</i>	<i>vincta</i>	7-9	Soil	Parasite		
<i>Nomada</i>	<i>xanthura</i>					
<i>Peponapis</i>	<i>pruinosa</i>					



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					Family	Genus
Svastra	<i>atrides</i>					
Svastra	<i>obliqua</i>	4-11	Soil	Solitary		
Tetraloniella	<i>albata</i>					
Triepeolus	<i>concavus</i>	5-10	Soil	Parasite	[Apidae]	[Svastra]
Triepeolus	<i>cressonii</i>	6-10	Soil	Parasite		
Triepeolus	<i>distinctus</i>	5-10	Soil	Parasite	[Halictidae]	[Dieunomia]
Triepeolus	<i>donatus</i>	7-10	Soil	Parasite		
Triepeolus	<i>eliseae</i>					
Triepeolus	<i>helianthi</i>	6-10	Soil	Parasite	[Apidae]	[Melissodes]
Triepeolus	<i>lunatus</i>	3-10	Soil	Parasite		
Triepeolus	<i>michiganensis</i>					
Triepeolus	<i>obliteratus</i>	7-10	Soil	Parasite		
Triepeolus	<i>occidentalis</i>					
Triepeolus	<i>pectoralis</i>	5, 7-11	Soil	Parasite		
Triepeolus	<i>remigatus</i>					
Triepeolus	<i>rhododontus</i>	8	Soil	Parasite		
Triepeolus	<i>simplex</i>	7-8	Soil	Parasite	[Apidae?]	[Svastra?]
Triepeolus	<i>tanneri</i>					
Xenoglossa	<i>kansensis</i>	6-9	Soil	Solitary	Cucurbitaceae	<i>Cucurbita</i>
Xeromelecta	<i>interrupta</i>		Soil	Parasite	[Apidae]	
Xylocopa	<i>virginica</i>		Soil	Parasite	[Apidae]	