

Appendix 6: Bees
(Compiled by Robbin Thorp)

Common Name	FAMILY/SUBFAMILY Genus Species	Phenology	Nest int†	Sociality	
Sand/Mining Bees	ANDRENIDAE				
	ANDRENINAE				
		<i>Andrena angustitarsata</i>	Spring	Soil	S
		<i>Andrena auricoma</i>	Spring	Soil	S
		<i>Andrena caerulea</i>	Spring	Soil	S
		<i>Andrena cerasifolii</i>	Spring	Soil	S
		<i>Andrena chlorogaster</i>	Spring	Soil	S
		<i>Andrena hypoleuca</i>	Spring	Soil	S
		<i>Andrena nigrocaerulea</i>	Spring	Soil	S
		<i>Andrena suavis</i>	Spring	Soil	S
		<i>Andrena subtilis</i>	Spring	Soil	S
		<i>Andrena vandykei</i>	Spring	Soil	S
	PANURGINAE				
	<i>Panurginus nigrellus</i>	Spring	Soil	S	
Honey & Bumble Bees (Honey bee)	APIDAE				
	APINAE				
		<i>Apis mellifera*</i>	Perennial	Large Cavities ¹	Ep
		<i>Bombus californicus</i>	Spring-Fall	Rodent Burrows ¹	Ea
		<i>Bombus melanopygus</i>	Winter-Spring	Bird Nests ¹	Ea
		<i>Bombus sonorus</i>	Spring-Fall	Rodent Burrows ¹	Ea
	<i>Bombus vosnesenskii</i>	Winter-Spring	Rodent Burrows ¹	Ea	
Digger Bees (Small carpenter bee)	ANTHOPHORINAE				
		<i>Anthophora bomboides</i>	Spring	Soil	S
		<i>stanfordiana</i>			
		<i>Anthophora californica</i>	Spring	Soil	S
		<i>Anthophora edwardsii</i>	Spring	Soil	S
		<i>Ceratina nanula</i>	Summer	Pithy Stems ²	S
		<i>Habropoda depressa</i>	Spring	Soil	S
		<i>Habropoda tristissima</i>	Spring	Soil	S
		<i>Synhalonia frater albopilosa</i>	Spring	Soil	S
		<i>Synhalonia lunata</i>	Spring	Soil	S
	<i>Synhalonia virgata</i>	Spring	Soil	S	
(Carpenter bee)	<i>Xylocopa tabaniformis orpifex</i>	Spring	Soft Wood ³	S	
Masked Bees	HYLAEINAE				
	COLLETIDAE				
		<i>Hylaeus rudbeckiae</i>	Spring	Small Cavities ⁴	S
	<i>Hylaeus timberlakei</i>	Spring	Small Cavities ⁴	S	
Sweat Bees	HALICTIDAE				
	HALICTINAE				
		<i>Halictus tripartitus</i>	Spring-Fall	Soil	SS
		<i>Lasioglossum (Dialictus) sp. A</i>	Spring-Fall	Soil	SS
		<i>Lasioglossum (Dialictus) sp. C</i>	Spring-Fall	Soil	SS
	<i>Lasioglossum (Evylaeus) sp. C</i>	Spring-Fall	Soil	SS	

(Cuckoo sweat bee)	Sphecodes sp.	Spring-Fall	Host nests in soil	B
Leafcutting & Mason Bees	MEGACHILIDAE			
	MEGACHILINAE			
	Megachile angelarum	Summer	Small Cavities5	S
	Megachile apicalis*	Summer	Small Cavities6	S
	Megachile frugalis	Summer	Small Cavities5	S
	Osmia coloradensis	Spring	Small Cavities5	S
	Osmia glauca	Spring	Small Cavities7	S
(Blue orchard bee)	Osmia lignaria propinqua	Spring	Small Cavities7	S

* Introduced Species

Cavity Nest Partitions:

- 1 - Secreted wax
- 2 - Pith pulp
- 3 - Wood pulp
- 4 - Secreted membranes
- 5 - Leaf pulp
- 6 - Cut leaves
- 7 - Mud

Sociality Key: Solitary

- S = Semi Social
- SS = Eusocial (perennial)
- Ep = Brood parasite
- B = Eusocial (annual)
- Ea =