

TEXAS NATIVE BEES

The Jha Lab has been studying native pollinators since 2012. Researchers have identified hundreds out of the ~800 bee species and 6 families found in Texas. About 20,000 native bee species have been described around the world!

Carpenter bees (Apidae) are solitary but can live with sisters or daughters. Females bore holes in wood & partition nests with wood chips. Territorial males may fly at you but can't sting.

Xylocopa



Sean McCann

Ceratina



Steve Nanz

Long-horned bees (Apidae) are solitary but may nest in large groups in the ground. Guess why *Melissodes* is called a long-horned bee!



Sean McCann

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Bumble bees (Apidae) are ground-nesters; they can forage > 1 km away.

Bombus

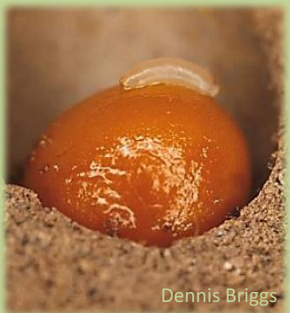


Charles Schurch Lewallen

Mining Bees (Andrenidae) are solitary bees. Most build underground nests: a small entrance leads to a branched tunnel containing an egg.



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Dennis Briggs

Egg on pollen ball

Plasterer bees (Colletidae) chew leaves into spit balls to plaster their nests in pithy stems.

Colletes



Wikipedia



Female **parasitic bees** invade nests of other bees to lay eggs on the food stored by the host. These kleptoparasite larvae consume all the food (pollen).



Coelioxys



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Lasioglossum



Steve Nanz

Sweat bees

(Halictidae) are common. Most are ground-nesters like *Agapostemon* & *Lasioglossum*.

Females can make individual cells in communally nests. Others are cavity nesters. They're called sweat bees because they lick salt from sweat.



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Agapostemon



Discoverlife.org

Scott Famous



Mason bees (Megachilidae) are solitary and docile; nesting in cavities, stems or snail shells! Females make mud walls between brood cells and mud packs to seal their nest.

Gardeners/farmers use mason bees like *Osmia* to pollinate crops. Some rear them commercially.



© Chris Worden



Megachile



T'ai Roulston

Leafcutter bees (Megachilidae) pollinate well; one bee can pollinate as much alfalfa as 20 honey bees. They line cavity nests with pieces of leaves or petals.



Some (*Melittidae*) bees like *Hesperapis*, collect plant oils in dry climates.



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