

like alfalfa hay!

# solitary Bees Alkeale Bees

### **Genus: Nomia** (pronounced No-mi-a)

Alkali Bee 12 to 13 mm in length

**Alkali bees**, like leafcutter bees, pollinate alfalfa flowers to make alfalfa seed. These bees nest in the ground and are very picky; they love salty, moist and crumbly soil. Some farmers have figured out how to create these same conditions in the soil on their farms. At these sites, thousands of females build nests side-by-side, packing their nests with alfalfa pollen.

After the females lay an egg, the hungry alkali bee larvae consume the pollen and complete their development underground.

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# social Bees Burmble Bees

### Genus: Bombus (pronounced BOM-bus)



Bumble Bee 11 to 23 mm in length

**Bumble bees** are important pollinators of many wild and agricultural plants (plants grown by farmers). Some of the crops they pollinate include cranberries and other berries, apples, tomatoes, peppers and squash. They are large and fuzzy bees, and their bodies are most often colored with a mixture of black, yellow, orange, brown or white hairs. In Oregon they are important pollinators of red clover. Oregon is one of the largest growers of clover seed in the world. Farmers buy the seed to grow clover plants, which are fed to cows and other **livestock** (animals raised on a farm) that give us milk, cheese, yogurt, eggs, meat and more.

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Cuckoo bees have evolved over time without any pollen–carrying structure. Since they steal their pollen, they don't need to carry it on their body.

> Find the hidden pictures!

Thief Masl

Cuckoo Bir

Not all bees are pollinators or help make food. Cuckoo bees are **kleptoparasites**. **Klepto** means "to steal" and a parasite is a living creature that feeds off another living creature.

Cuckoo bees often look more like wasps than bees. They can be red, yellow, brown or black and often have spines and ridges on their bodies.





Cuckoo Bee 8 to 10 mm in length

**Cuckoo bees** don't forage for pollen. They have found a way to steal it. When a Nomada female **reproduces** (has babies), she looks for a nest that is being built by a female bee closely related to her. Once she finds a nest, she waits for the female bee who made it to go forage. Then she sneaks inside and quickly lays her own eggs, right next to some of the other bee's eggs. Each of her eggs will hatch into a larva (the early stage of a bee that looks like a caterpillar), destroy the offspring of the other female and eat pollen left by the female who made the nest. Cuckoo bees got their name from cuckoo birds, which lay their eggs in other birds' nests.

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CUCKOO

A trait of this bee is that it is **sneaky**. Synonyms for **sneaky** include: -tricky -sly -devious











Social Bees



NOC.



### **Genus: Apis** (pronounced A-pis)



Honey Bee 12 to 15 mm in length

**Honey bees** are pollinators of agricultural crops worldwide.

That's because they pollinate many different types of plants (some other bee species are very picky eaters), and they are easy to manage. For hundreds of years, beekeepers have known how to raise them in portable nests that they can move from field to field. Honey bees make tasty honey, too, which is how they got their name. They are medium-sized bees that range in color from black to pale yellow. Colonizing Europeans brought honey bees to North America starting in the 1620s. In Oregon, they are one of the only pollinators of carrots, which Oregon farmers mainly grow not for the vegetable, but for the seeds produced by carrot flowers.

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Find the hidden pictures!

Milk

Leafcutter bees and mason bees belong to a family of bees called Megachilidae (meg-a-KILL-ih-dee), meaning "large jaw," referring to



Leafcutter Bees

### **Genus: Megachile** (pronounced mega-KY-lee)



Alfalfa

Flower

Leafcutter Bee 6 to 22 mm in length

**Leafcutter bees** are pollinators of alfalfa and many wild plants. They are called leafcutter bees because they cut out small pieces of leaves to use to build their nests. Leafcutter bees are darkly colored, small to medium-sized bees. In Oregon, they are important pollinators of alfalfa grown for seed. Farmers buy the seed to grow alfalfa plants, which are fed to cows and other **livestock** (animals raised on a farm) that give us milk, cheese, yogurt, eggs, meat and more.

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Notes





corbicula and **scopa** (hair) on legs and abdomen.

## **Genus: Melissodes**

Solitary Bees

Long-Horned Bees

(pronounced me-leh-SOH-dees)



Long–Horned Bee 9 to 15 mm in length

Long-horned bees are beautiful medium-sized bees

that are very fuzzy. They are dark with yellow, black or white hairs.

Males have long **antennae** (horns) like the bee shown. Females have large, brush-like hairs on their back legs that they use to carry pollen. Bees in the genus Melissodes like to visit plants in the sunflower family the most. They also visit a number of native plants. Planting sunflowers in your community, and watching the blooms, is the best way to find these bees in Oregon.

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A trait of this bee is that it is **beautiful**. Synonyms for **beautiful** include: - gorgeous - good-looking - attractive

Wotes











Photograph by Steve Peterson

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# solitary Bees I a soom Boes

## Genus: Osmia

#### (pronounced OZ-me-a)



Mason Bee 6 to 12 mm in length

Some **mason bees** are pollinators of almonds, apples,

blueberries, raspberries and cherries, as well as many wild plants. They are called mason bees because they use mud or clay to build their nests, just like a mason. A mason is someone who uses bricks and mortar to build homes and other buildings. They are small to medium-sized bees that are colored in bright metallic blues and greens and sometimes black. In Oregon, they are most often used to pollinate cherries. They work quickly: under some conditions one female mason bee can pollinate three times as many flowers as a single honey bee in the same amount of time.

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A trait of this bee is that it is a **fast** pollinator. Synonyms for **fast** include: -quick -rapid -speedy













## **Genus: Peponapis**

(pronounced pep-on-A-pis)

Squash Bee 11 to 14 mm in length

**Squash bees** found in Oregon are medium-sized, fuzzy bees

that feed only on the pollen of plants in the squash family (squashes, pumpkins and gourds). They spend their whole lives around the plants they pollinate. They nest in the ground beneath squash plants and even sleep inside squash blossoms. In fact, the best way to find squash bees is by looking inside squash blossoms in the cool of the morning when the bees are still asleep. Squash bees are new to Oregon and are still making their way around. Can you find squash bees in your community?

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تربیب A trait of this bee is that it is **fuzzy**. Synonyms for **fuzzy** include: –furry –hairy –bushy











# Genus: Agapostemon

solitary and social Bees

Green Metallic

Sweat Bees

(pronounced a-ga-POSS-ta-mon)



Green Metallic Sweat Bee 7 to 12 mm in length

**Green metallic sweat bees** pollinate the flowers of many **cultivated** plants (plants grown on purpose) as well as many wildflowers. Sweat bees have been given this name because they lick the sweat of mammals as a way to add salt to their diet. They are medium-sized and have a bright metallic green color. These bees love open and flat-shaped flowers such as daisies, dandelions, wild roses, and blackberry and apple blossoms. They love purple asters, a plant grown by many Oregon **nurseries** (places where plants are grown on purpose).

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A trait of this bee is that it is **bright** in color. Synonyms for **bright** include: -sparkling -glittering -brilliant

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