The alkali bees of the Pacific Northwest region (Oregon, Washington, Idaho) are the only ground-nesting bees in the world managed by farmers.

Alfalfa

From the seed, farmers grow hay to feed many different types of animals. Even chickens like alfalfa hay!





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 the same conditions on their farms that these bees like in the wild. 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.

Find the hidden

pictures!

Egg

shovel

- P

A trait of this bee is that it makes its nest in the ground. Synonyms for ground include: -earth -dirt -soil

Genus: Nomia (pronounced No-mi-a)

Actual size 12 to 15 mm in length

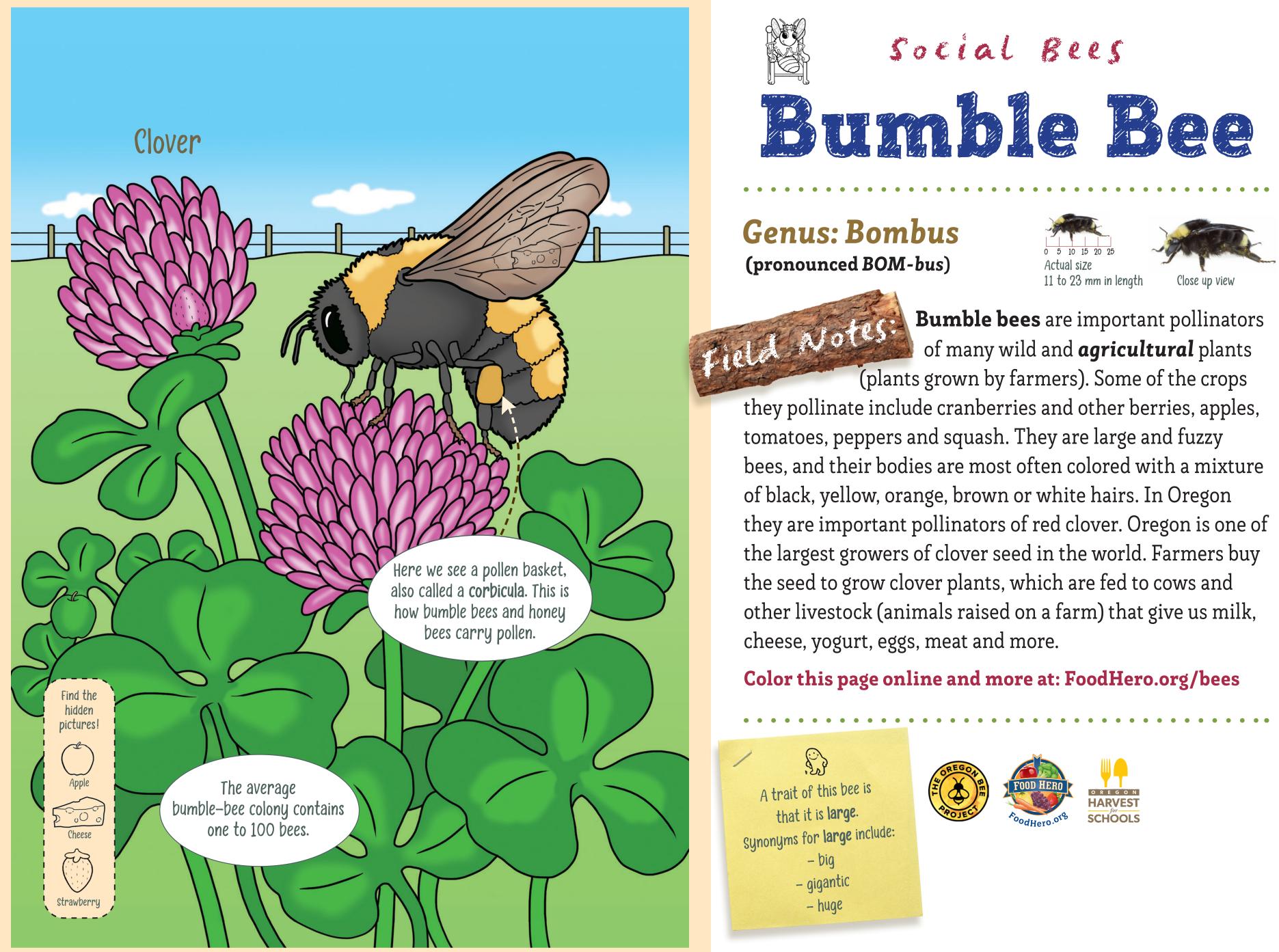




Alkali bees, like leafcutter bees, pollinate alfalfa flowers to make

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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.



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.



Find the

hidden

pictures!

Armor

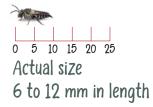
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Thief Mask

Cuckoo Bird

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

Genus: Nomada (pronounced no-MA-da)





tield Wotes: 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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Genus: Agapostemon (pronounced a-ga-POSS-ta-mon)

Actual size 7 to 12 mm in length



Green metallic sweat bees pollinate the flowers of mean

(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

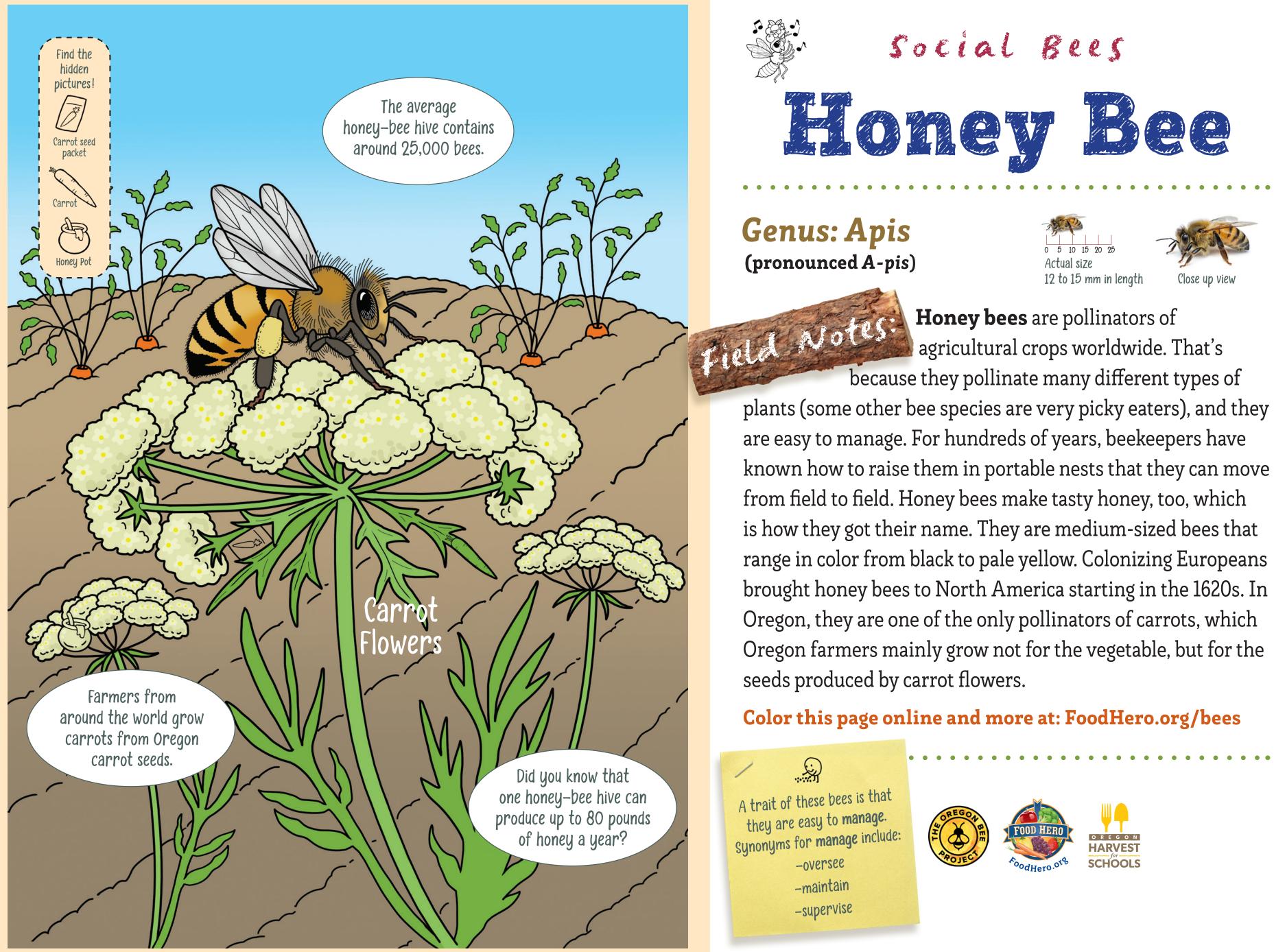
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A trait of this bee that it is bright in color. Synonyms for bright include: -sparkling -glittering -brilliant













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Genus: Megachile

(pronounced mega-KY-lee)

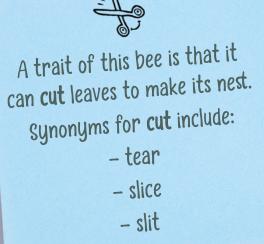


Actual size 6 to 22 mm in length



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.









Genus: Melissodes (pronounced me-leh-SOH-des)

Actual size 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







