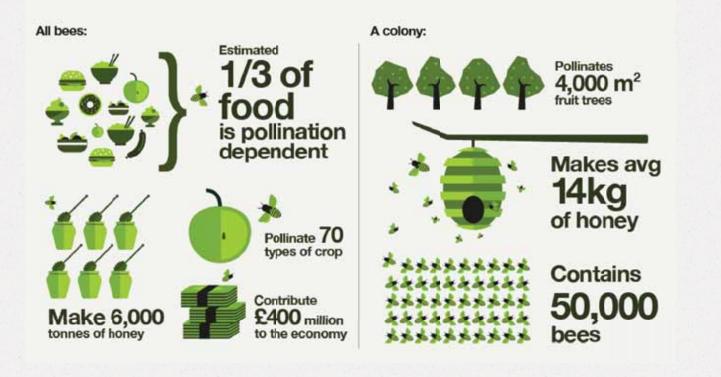
Pollination

Good for Plants and Humans, But What do Bees Get Out of It? Brent Weisman, Florida Master Beekeeper

One mouthful of every three







Alfalfa Apple Almond Artichoke Asparagus Blackberry Blueberry Broccoli Brussels

sprouts

Some crops pollinated by bees³

Cabbage
Cacao
Cantaloupe
Carrot
Cashew
Cauliflower
Celery
Cherry
Citrus
Dill
Eggplant/
Aubergine
Fennel
Garlic

Kale
Kola nut
Leek
Lychee
Macadamia
Mango
Mustard
Nutmeg
Onion
Passion fruit
Peach
Pear
Plum
Pumpkin

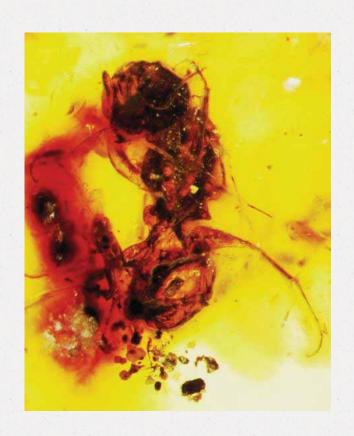
Raspberry
Sapote
Squash
Sunflower
Tangerine
Tea
Watermelon



1.6 M colonies of bees!



100 MYA



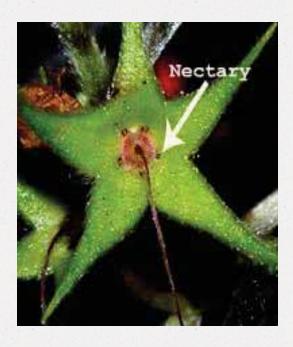






NECTARIES

- The nectaries are the parts of a flower that make nectar. Nectar is a sweet substance. Insects drink it to get energy! Bees also use nectar to make hore
- The nectaries are usually right in the centre of the flower. This means the insects have to go deep into the flower to find the nectar. As they do so, their bodies pick up pollen from the anthers, and they carry it to the next flower they visit.



What We See



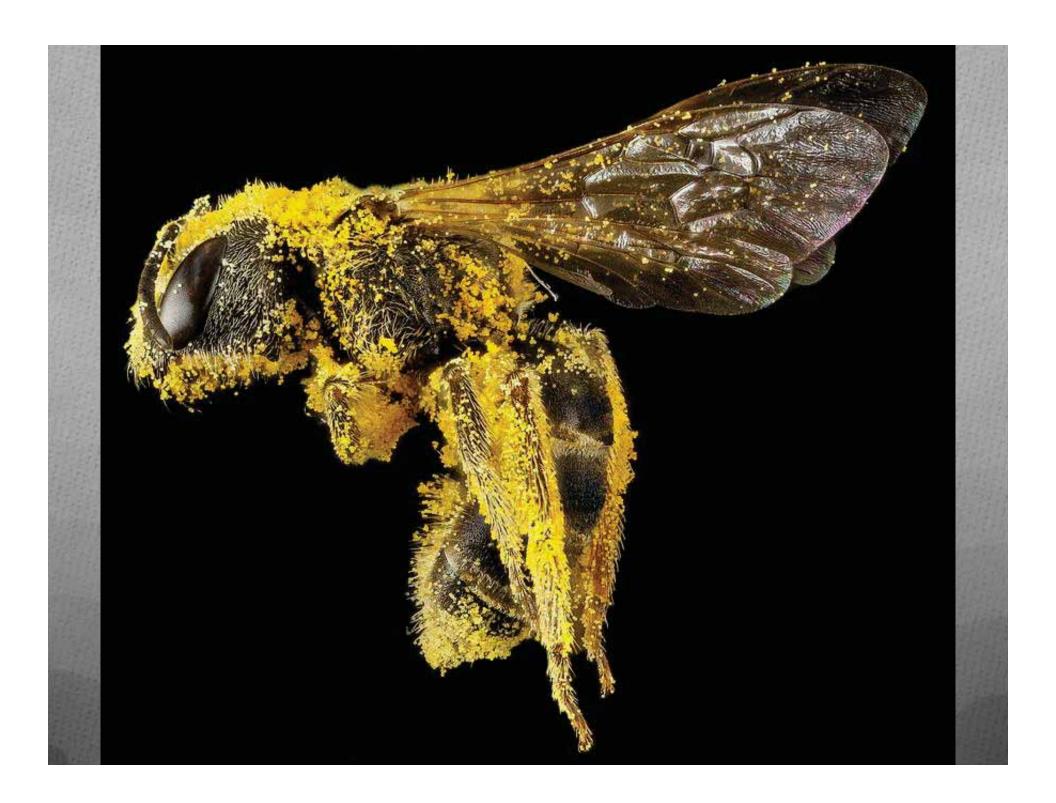
Bees are highly evolved to sense and locate flowers



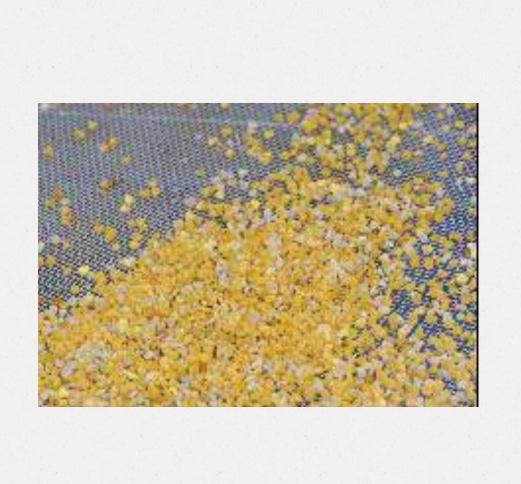
Looking for Nectar, Dusted with Pollen













Alanine

Arginine

Aspartic Acid

Cystine

Glutamic Acid

Histidine

Hydroxyproline

Isoleucine

Leucine

Lysine

Methionine

Phenylalanine

Proline

Serine

Threonine

Tryptophan

Tyrosine

Valine

Enzymes:

Amylase

Catalase

Cozymase

Cytochrome Systems

Diastase

Disphorase

Lactic Dehydrogenase

Pectase

Pepsin

Phosphatase

Saccharase

Succinic Dehydrogenase

Trypsin

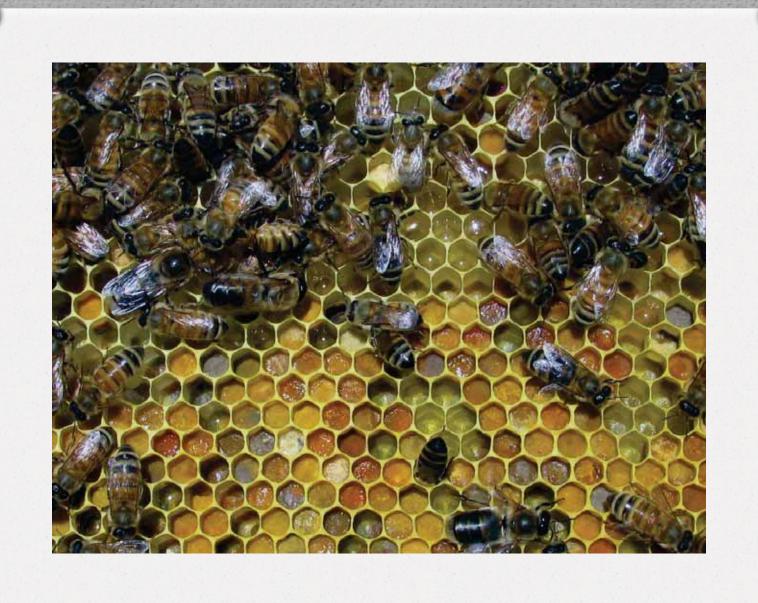
33 Hydrolases

24 Oxidoreductases

21 Transferases

11 Lyases

5 Isomerases





Thank you!

