Honey Bee Biology and Behavior
Reproductive Castes

Drone  (male)
Queen  (female)
Worker  (female)
Drone: Unfertilized egg + 3 days of royal jelly and 6 days of pollen and honey

Queen: Fertilized egg + 9 days of royal jelly

Worker: Fertilized egg + 3 days of royal jelly and 6 days of pollen and honey
Royal Jelly
Pollen and Nectar
Development Time:
From egg to adult emergence:

Queen: 16 days
Worker: 21 days
Drone: 23 days
Duties of each caste
Drones
Workers
cleaning cells
nursing
attending to the queen
receiving nectar
ripening honey
building comb
capping honey
ventilating hive
guarding entrance
foraging
pollen

water

nectar

propolis
Round Dance

food resource is within 100 feet of bee hive

No direction indicated
No distance indicated
Just quality (vigor of dance)
Wag-tail Dance
food resource is over 300 feet from bee hive

Direction indicated
Distance indicated
Quality (vigor of dance)
sun direction is vertical on comb
Wag-tail Dance: food location in relation to sun

hive
Wag-tail Dance

hive

You are using the demo version.
Wag-tail Dance

hive

45°

45°
Swarming
Causes of Swarming

- overcrowding
- old queen
  (with low pheromone production)
Stinging
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