



Biology and Anatomy

Castes

QUEEN Lays 1500+ eggs per DAY Lives 2-5 years	WORKER Female, fertilized egg	DRONE Male, unfertilized egg
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Developmental Stages

Caste	Egg	Larva	Pupa	Emerges after total # days
QUEEN	3 days	6 days	7 days	16
WORKER	3 days	6 days	12 days	21
DRONE	3 days	6 days	15 days	24

Days in the life of a worker bee

Age (days)	What's happening/task
1-2	Emerges, cleans her cell, warms brood. Cannot fly.
3-5	Hypopharyngeal gland starts to function, producing royal jelly. Feeds older larvae. Possibly caring for and feeding queen. Still cannot fly.
6-11	Hypopharyngeal gland working better. Feeds younger larvae. Wax glands on abdomen start working so starts capping brood cells.
12-17	Wax glands working even better – building and repairing of comb. Hypopharyngeal glands stop working. Starts moving food around hive. Transporting nectar obtained from foragers.
18-21	Guard bee.
22-45	Forager – collect pollen, nectar, propolis.