

Master Beekeeping Program

Lesson 1- The Honeybee and her products



Biological Classification of the Honey Bee

carnica – Carniolans caucasica – Caucasian

Honeybee development

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		Egg	Larvae	Pupae	Total	
					Days to	
					adulthood	
Fertilized	Queen	3	5.5	7.5	16	
Egg		Days	Days	Days		
	Worker	3	6 Days	12	21	
		Days		Days		
Non-	Drone	3	6.5	14.5	24	
fertilized		Days	Days	Days		
Egg						

Functions of Honeybees

	Queen	Worker	Drone
Main Job	Lays 1,500 to 3,000 eggs per day, releases pheromones to maintain hive order, mates 5 to 10 days after emerging from queen cell Several mating flights/average 12 Drones	Nursing, Feeding, Wax, Nectar, Pollen, Propolis, Cleaning, Guarding, Cooling, Heating, Building,	Mate with a virgin Queen (dies in the process)
Food	Royal Jelly	Royal Jelly for first 3 days as a larvae then honey and pollen	Royal Jelly for first 3 days as a larvae then honey and pollen
Glands	No wax glands No brood food glands	Glands in head and thorax: royal jelly, enzymes, Wax	No Wax glands
Stinger	Curved, Uses it on other queens doesn't lose her stinger	Barbed, dies after losing stinger	None
Life Span	Can live up to 5 years (however, re-queening annually is a modern practice	Six weeks (spring/summer) to 3 months (fall/winter)	Varies (dies after mating/is evicted in the fall)

Reference materials:

Books:

ABC & XYZ of Beekeeper, published by A.I. Root Co. The Hive and the Honey Bee, published by Dadant & Sons American Honey Plants, by Orange Judd Publishing Co. Queen Rearing, by Dadant & Sons, by Walter T. Kelly Co. How to Keep Bees and Sell Honey, by Walter T. Kelly Co. Honeybee Democracy, Thomas D. Seeley

Periodicals:

American Bee Journal - Hamilton, Illinois, 62431 Bee Culture – Medina, Ohio 44258 The Speedy Bee – Jessup, Georgia 31545

Online:

PSBA website: www.pugetsoundbees.org

WSBA website: www.wasba.org
National Honey Board: www.nhb.org
Bee Informed: http://beeinformed.org/

Honey Bee Suite - Rusty Burlew: http://www.honeybeesuite.com/

The Practical Beekeeper - Michael Bush: http://www.bushfarms.com/bees.htm

Scientific Beekeeping - Randy Oliver: http://scientificbeekeeping.com/

WSU Diagnostics lab: http://entomology.wsu.edu/apis/diagnostic-lab/

Apiary Registration form: http://agr.wa.gov/PlantsInsects/Apiary/docs/ApiaryRegistrationForm.pdf