

## Journeyman Level Master Beekeeping Course

April 7, 2014

Lesson # 3

### BEES AND THEIR RELATIVES

#### 1. Bumble Bee

- a. black abdomen or yellow abdomen (hairy)
- b. all nest in ground
- c. queen resides in wood pile in winter
- d. they do not over winter as a colony
- e. forage at lower temp than honey bee
- f. 200 foragers in a colony
- g. We need to protect bumble bee
- h. Nest in ground only

#### 2. Carpenter Bee

- a. nests in wooden siding
- b. carpenter bee ALWAYS has a black shiny abdomen
- c. control method-pesticide for bees
- d. big problem in march –July
- e. female has stinger, male (white head) does not

Note: All bees have two (2) pair of Wings

#### 3. Yellow Jackets

- a. can sting multiple times
- b. nest in the ground
- c. yellow jackets eat other insects
- d. considered to be beneficial
- e. they do not over winter as a colony
- f. control method-yellow jacket spray, eradicate at night, yellow jacket traps

#### 4. Hornets

- a. Bald face hornet
- b. Only queen over winters, colony does not
- c. Call pesticide applicator to eradicate

#### 5. Wasps

- a. sting multiple times
- b. nests made of paper

#### 6. Cicada Killer

- a. lives in ground

- b. not dangerous
- c. white (3) markings on abdomen
- d. female has a stinger
- e. active for 6 to 8 weeks
- f. one reproductive cycle

Note: HYMENOPTERA – Have two (2) pair of wings.

- 7. European Hornet
  - a. Nests above ground
  - b. Problem for beekeepers
  - c. Gold abdomen
  - d. Does not over winter

Note: Most Hymenoptera collect nectar

#### AFRICANIZED HONEY BEE

- 1. 1956- all died
- 2. 1957-Brazil-brought min African queens (20 or so were accidently released)
- 3. Wallrick Kerr-He tried to make a Hybrid between the African bee and the European bee.

#### USDA Website-For African Bee

Why they have not moved East-two theories:

- 1. Rain fall-+ 55 inches annually-too much for the varroa
- 2. African bee swarms year round.

#### AFRICANIZED HONEY BEE

- 1. produces 7 to 8 swarms per year
- 2. swarms are gentle
- 3. all AHB's are not as defensive
- 4. 150 feet-real danger area
- 5. 150 yards-danger area
- 6. cannot place colonies on a table
- 7. vegetation around colonies helps to calm the AHB
- 8. Hives can nest in the ground

#### At Risk Groups

- 1. outside workers
- 2. military personnel
- 3. small children
- 4. handicapped
- 5. elderly
- 6. caged animals