INTRODUCTION TO BEEKEEPING

Honeybee problems stings pests & diseases

Stings

- Stings Speed of removal most important. If a bee does get inside your suit squash it before it stings you if possible. Walk away from the apiary to safety before removing it.
- Bees fly towards the light, so get to a shady area if possible.

Stinge

Pests

- Woodpeckers





Asian Hornet

Key features:
Almost entirely dark abdomen, except for the 4th segment which is yellow
Bright yellow tips to legs
Entirely brown or black thorax
Workers can be up to 25mm in length.





Whatever stock you keep, they must be healthy and pest free

Know how a healthy colony should look; it is then relatively easy to see disease.



Healthy Bee

- Good hygiene
- Clean apiary
- Clean bee sui
- Secure hive
 - Minimise robbing
 - Minimise draughts
- Gentle handling
 - Reduce s
- Apiary siteGood forage



Adult Bee Diseases

- Lethargic bees
- Diarrhoea
- A series
- Lethargic bees
- Crawling bees
- 'Black bees'
- Poisoning
- Many dead bees outsic hive
- Viruses
- Many different
- Colony fails to build u



Current dangers to honey bees

- Varroa destructor
- Nosema ceranae
- Viruse
- Paralysis viruses
- Deformed wir
- Queen cell
- Outcome
- CCD
- Marie Celeste
- Colony loss







- behaviour: hides from the light





Varroa Treatment

- Monitor mite drop Use the DIFRA varroa calculator to find number of mites in the colony When excessive treat the colony (>1000) Control mite numbers by removing drone larvae & dust with icing sugar Can use Apiguard & oxalic acid !











Inspecting a comb

- If you need spectacles to see eggs, wear them! Have the sun shine over your shoulder into cell bottoms. Hold the comb vertically at eye level (the picture is not correct!)





Healthy brood

Eggs and larvae







Brood Diseases

- AFB Notifiable
- Ropey deposit
- **EFB** Notifiable
- □ Uneven brood patter
- Chalk Brood
- White 'mummies'
- Chilled Brood
 Dead Jarvae pear edg
 - Dead larvae near edge of brood



Statutory requirements

- Notifiable diseases
 Must inform Bee Inspective
 - □ AFB, EFB, SI
- Treatmer
- Destruction (AFB & EFB)
- Antibiotics (EFB)
- Shook Swarm (EFB)
- Insurance
- Importation of bees!



The National Bee Unit

- A part of the government's Food and Environment Research Agency and Defra.
- Because pollination is so important, it exists to help beekeepers fight bee pests and disease at no cost to us!
- Use it or lose it!
- In particular, sign up for BeeBase and obtain copies of their free advisory leaflets <u>and read</u> <u>them</u>.