

Ex No: 15

Date

IDENTIFICATION OF DIFFERENT NON-INSECT PESTS:

HOUSE HOLD INSECT PESTS

Objective:

To study the characteristics and nature of damage of different non-insect pests *viz.*, house hold insect pests

1. House ants:

Monomorium criniceps (small brown ant)

M. destructor (small red ant)

Class Insecta
Order Hymenoptera
Suborder Apocrita
Family Formicidae
Subfamily Myrmicinae

Monomorium criniceps

- In female, head somewhat transverse
- Large eyes, round
- Antennal scape and gaster with dense pubescence *M.*

destructor:

- The length of workers is highly variable (Polymorphic) from 1.8 to 3.5mm.
- The body, from head to post petiole, is uniformly light yellow to dull brownish yellow.
- The gaster (swollen part of abdomen) is always darker.
- The antennae have 12 segments, including a 3-segmented club.
- The eyes of *M. destructor* are relatively small, with 4-6 ommatidia in the longest rows.
- Mandibles have 3 strong teeth each; with a fourth tooth that is minute.
- Sparse body hairs cover the ant

2. Termites.

Order: Isoptera
Family: Termitidae

A. Productive castes

- **Colonizing individuals**- Both sexes are winged. After mating wings drop off
- **Queen**-Larger in size, with creamy white abdomen marked with transverse brown stripes, reproductive system occupies entire body
- **King**- Smaller than queen,
- **Complementary castes**- Short winged or wingless forms of both sexes

B. Sterile castes

- **Workers**- Stunted, mandibles well developed
- **Soldiers**- Mandibulate type with large and powerful jaws but with no frontal rostrum
Nasute type with median frontal rostrum but small or vestigial jaws

3. Silver fish *Ctenolepisma spp.*

Order: Thsanura
Family: Lepismatidae

- The insect is wingless, 8-13 mm long, silvery greenish grey or brownish
- Lives in warm places and avoids light.

4. Cockroach

Order: Dictyoptera
Family: Blattidae

Periplanata Americana

- 20-30mm, reddish brown in colour and has a pale yellow area around the perimeter of the pronotum.
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German cockroach *Periplanata germanica*

- 12-15mm in size, light brown in colour with 2 dark stripes on the thorax.
- The wings are as long as the body or slightly overlapping in both sexes.

5. Cricket *Gryllus spp.*

Order: Orthoptera
Family: Gryllidae

- Field crickets are black or dark brown insects about 1 inch long as adults.
- They have large hind legs (for jumping) and most have well-developed wings.
- Nymphs are similar but are smaller and lack wings. Both have long, slender antennae.

6. Powder post beetles-

Furniture beetle *Sinoxylon sudanicum*

Order: Coleoptera

Family: Bostrychidae

- Body length: 3.3-4.5mm
- Elytrons red or brown
- Each juxtasutural process strongly compressed, triangular, acutely pointed

7. Carpet beetle *Anthrena pimpinella*

Order: Coleoptera

Family: Dermistidae

- Called spotted carpet beetles as they possess bands of different colour.
- Larvae are reddish-brown in colour, 6.0 mm long, hairy with long hairs on the posterior side.

8. Cloth moths *Trichophaga abruptella*

Order: Lepidoptera

Family: Tineidae

- They are small moths of dull colour, having a wing span of one centimetre and frequently fly about in houses.
- Larva is 2 cm long, enclosed in a greyish silken case which it drags along while crawling on the walls, floors etc.