

Lecture No. 17. Mid-semester Examination

Lecture No. 18.

COTTON FOLIAR FEEDERS

DEFOLIATORS

1. Leaf roller, *Sylepta derogata*, Pyraustidae, Lepidoptera

Symptom: Leaves rolled in the form of trumpets and fastened by silken threads, defoliation.

Nature of damage: Larva remain within the fold and eat away the leaves. A single larva can damage several leaves.

Egg: Round, yellowish green, laid singly on undersurface of the leaves.

Larva: Green, glistening with dark head and prothoracic shield.

Pupa: Naked, oblong, pupates within leaf roll / under fallen leaves / debris.

Adult: Medium sized, yellowish wings with brown wavy markings.

2. Semiloopers: *Anomis flava*, *Xanthodes graellsii*, *Tarache nitidula*: Noctuidae, Lepidoptera

Symptom of attack: Defoliation, leaves with midribs, presence of larva

Nature of damage: Larvae defoliate the plant.

Egg: Singly laid.

Larva: *A. flava* – Green with five white longitudinal lines and red prolegs; *X. graellsii* – Green with a pair of horse-shoe shaped black mark on each segment and black warts on the abdomen; *T. nitidula* – Dark brown caterpillar.

Pupa: *A. flava* – oblong, pupates within leaf folds; *X. graellsii* – pupates in soil.

Adult: *A. flava* – medium sized, brown moth; forewings reddish-brown provided with dark coloured zig-zag bands. Hindwings are light brown; *X. graellsii* – yellowish with a brown streak; *T. nitidula* – Stout and white moth with black spots.

3. Ash weevil, *Mylloceris* spp., Curculionidae, Coleoptera

Symptom of attack: Holes in the leaves, leaf margins notched, roots eaten up, plants wilt and they come off easily when pulled

Nature of damage: Grubs remain underground and feed on the root system. Adults they damage the above ground parts

Egg: White, laid in the rhizosphere.

Grub: White apodous.

Pupa: Exarate, pupates in soil.

Adult: Green / Brown / Grey with or without markings on the elytra.

4. Cotton grasshopper, *Cyrtacanthacris tatarica* (= *ranacea*), Acrididae, Orthoptera

Symptom of attack: Defoliation.

Nature of damage: Nymph and adult defoliate the plant.

Nymph: Nymph with broad yellowish stripes on prothorax.

Adult: Pale brown, stout elongated grasshopper.