Grub: Grub is slender, pale cream with two slightly darker patches on each segment.

Pupa: Full grown grub makes protective cocoon like covering with sticky secretion.

Adult: Narrow, flattened, thorax having six teeth like serrations on each side. Antenna clubbed. Elytra cover abdomen completely.

15. Ricemoth, Corcyra cephalonica, Galleridae, Lepidoptera

Host range: Rice, jowar, other millets, whole cereals, cereal products, pulses, processed products of cereals, pulses, oil seeds, nuts, dry fruits and milled spices.



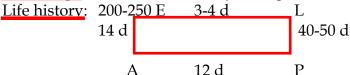
Symptom of damage: Presence of dense webbing of grains and foul smell, which makes the grains unfit for human consumption.

Nature of damage: Larva is only responsible for damage. It contaminates foodgrains with frass, moults and dense webbing. In whole grains, kernels are bound into lumps upto 2 kg.

Egg: Small, oval, elliptical laid on wall, bags or on grain. Larva: Creamy white has prothoracic shield. Pupa: It webs silken shelter before pupation. In case of heavy infestation cocoons may be seen sticking to the grain bags. Cocoon dense white and tough. Adult: Pale buff brown colour.

16. Fig or Almond or Warehouse moth, *Ephestia cautella*, Phycitidae, Lepidoptera

Host range: Wheat, rice, maize, jowar, groundnuts, spices.



Symptom of damage: Before pupation, large number of wandering larvae trails behind silken threads. Such fine threads form the carpets of white sheen over the bags. Matured larva spins a silken cocoon at the junction of two overlapping edges of stacked bags.

Nature of damage: Larva feeds on germ portion leaving the rest of the kernel undamaged. In bulk infestation its damage is limited to peripheral top layers only. Web formation covers the bags, floor-space and mill machinery thereby leading to clogging in mills.

Egg: Eggs are laid in grains exposed at the sampling tube spots in jute bags.

<u>Larva</u>: Greyish white, hairy with dark brown head with 2 dark areas on the first segment behind the head.

Pupa: Spins silken cocoon at the time of pupation.

Adult: Dirty white to greyish in colour with indistinct black bands,

17. Indian meal moth, *Plodia interpunctella*, Phycitidae, Lepidoptera

Host range: Maize, cereals, dry fruits, groundnuts and cereal products.

Life history: 39-275 E 2-17 d L