

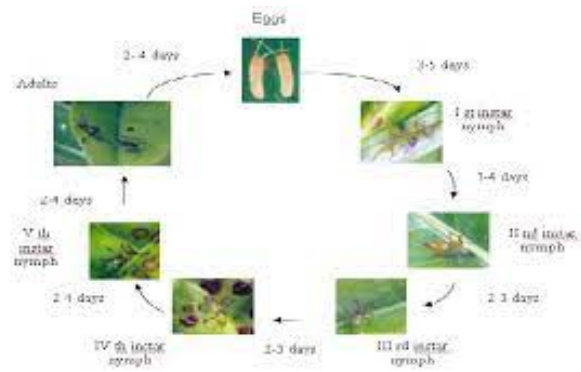
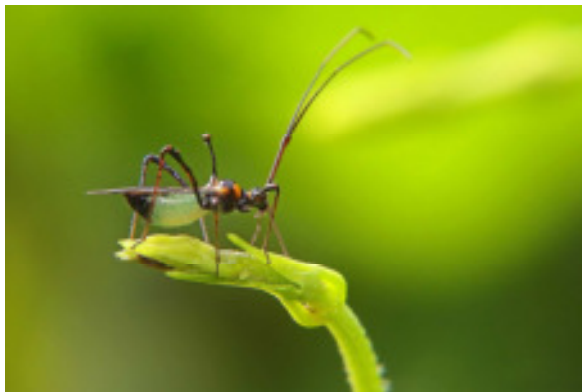


Phormone Chemicals

The name you can always trust

Mfrs: Phormone Traps, Lures, Yellow sticky traps

HELOPELTIS THEIVORA – Tea Mosquito Bug (TMB) is one of the major pests of Tea, Cashew and Guava.



Damage

The typical damage symptom is formation of necrotic lesions around the point of stylet insertion by the bug. The adjacent lesions coalesce and finally the affected shoot dries up. The infestation of inflorescence results in blossom blight. The build-up of the pest commences during October – November synchronizing with emergence of new flushes and reaches its peak during January - March when the trees are in full bloom.

Damage symptoms: – Nymphs and adults of this mirid bug suck sap from the leaves, young shoots, inflorescence, developing young nuts. The injury made by the suctorial mouth parts of the insect results in exudation of a resinous gummy substance from the feeding punctures.

Biology :

Egg: Female bug lays reniform and creamy white eggs singly by deeply inserting them into the tender tissues of new shoots, leaf petioles and veins. The presence of chorionic threads projecting outside the tissues is indicative of the presence of eggs inside. Each female bug lays, on an average, 50 eggs. The incubation period of the egg is on an average 5-7 days, at a temperature range of 24-32°C and relative humidity of 50-100 per cent. About 60% of the eggs normally hatch out as nymphs.

Nymph: The nymphs go through 5 instars in 10-15 days. The first instar is completed in 1.9 days, second instar in 2.2 days, third in 2.8 days, fourth instar in 2.8 days and fifth instar in 3.2 days and thus nymphal period completes within 13-15 days. Nearly 60 per cent nymphs survive and moult as adults. The nymphs are wingless and smaller, but otherwise resemble the adults. The young nymphs are orange coloured and ant-like.

Plot No.23, TSIIC Techpark, Road No.15, IDA Nacharam, Hyderabad – 500076, Telangana, India

Tel: +91-40-27177918, Cell: +91-94408 97918

E-mail: info@pheromonechemicals.in, Web: www.pheromonechemicals.in

e-shop: www.pheromonechemicals.in



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Adult: The female bug lives for about 7 days, while the longevity of male is 9-10 days. The adult bug is reddishbrown, about 6-8 mm long with a black head, red thorax, black and white abdomen. The pest can easily be recognized by its peculiar pin-like, knobbed process projecting on the dorsal side of its mid thorax. The adult usually feeds during early hours (6-10 am) and makes about 150 feeding punctures per day. The adults are poor flyers, generally fly below the bush and mating takes place mostly on the undersurface of cashew leaves. The lifecycle is completed in 25-32 days. The bug resembles mosquito in sitting position and hence this pest is known as ‘mosquito bug’.

Pheromone Traps providing information of ETL’s plays important role in any IPM programme.

Trap canopy should be placed one feet above crop canopy to achieve optimum catch.

ETL for *Helopeltis theivora* is 10-12 No’s of moths per trap per day.

LURE FOR	: <i>Helopeltis theivora</i>
MATERIAL OF PHEROMONE LURE	: Virgin Silicone
Dosage of each Lure	: 3mg
Duration of Lure working in field	: 30-45 Days after installation
Packing of Lures	: Trilaminated Aluminum Foil
Shelf Life	: 18 months from packing

Recommended for: Guava, Tea and Cashew.

Use 10-15 No’s of traps per acre.

Always use Phero – SensorTM – Delta for best results.

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