

# Pacific Pests, Pathogens and Weeds - Online edition

## Squash leaf-footed bug (165)

### Common Name

Leaf-footed bug, squash bug

### Scientific Name

*Leptoglossus* species; *Leptoglossus gonagra* (previously known as *Leptoglossus australis*) is the common species in the Pacific islands.

### Distribution

Asia, Oceania. It is recorded from Australia, American Samoa, Fiji, French Polynesia, Guam, Federated States of Micronesia, North Mariana Islands, Palau, Papua New Guinea, Samoa, Solomon Islands, Tonga, Vanuatu, and Wallis & Futuna.

### Hosts

Snake gourd, melon, cucumber, pumpkin and other cucurbits. Many other plants, including, citrus, eggplant, guava, legumes, passionfruit and tomato, are reported as hosts.

### Symptoms & Life Cycle

Damage is caused by both nymphs and adult bugs sucking sap from stems and tender fruits. The bugs feed using their long tube-like mouths to draw sap from stems, fruits and seeds. Stems turn yellow-brown and they may die if infestations are high. Feeding on fruits causes them to shrivel, rot and drop.

The eggs are laid on the leaves and stems, and even on the tendrils, in batches of about 30. They hatch in 6-7 days. There are five nymph stages over 40-50 days. Young nymphs are reddish, but as they pass from one moult to the next they become darker (Photo 1). The adults are about 18-24 mm long, black or dark brown, with a curved orange line behind the head, and distinctive orange-red spots on the under surface and sides (Photo 2). They have very long sucking mouthparts, almost as long as their bodies, which they use to feed on fruit of all ages (nymphs feed on stems and leaves).

A distinctive feature of the bug are the outgrowths on the legs of the late stage nymphs and the adults; these are the reason for the common name - leaf-footed bug (Photos 3-5). The adults live for about 2 weeks.

### Impact

The bugs are not considered major pests, and only occasionally reach numbers that cause economic damage. Plants in the citrus, cucumber and passionfruit families are most affected.

### Detection & inspection

Look for a large black slow-moving bug with orange spots on the sides and distinctive outgrowths on the hind legs. Look for the nymphs which are red at first, becoming brown as they develop. Look for the very long mouthparts that adults insert to feed on fruit of all ages.



Photo 1. *Leptoglossus* nymphs feeding on wild cucurbit.



Photo 2. Leaf-footed bug, *Leptoglossus* species, on snake gourd.



Photo 3. Leaf-footed bug, *Leptoglossus* species, on tomato clearly showing the 'leaf' of the leg.



Photo 4. Leaf-footed bug, *Leptoglossus* species, on luffa.

## Management

### NATURAL ENEMIES

There are no reports of predators or parasitoids attacking *Leptoglossus* in Pacific island countries. Elsewhere, reduviids (assassin bugs), mantids (praying mantis), spiders and wasps are known to destroy eggs and prey on nymphs.

### CULTURAL CONTROL

Before planting:

- Do not plant crops next to those that are already infested with the bug.

During growth:

- Handpick the insects. They can be caught easily as they are relatively slow moving, especially in the cooler early morning or late evening.

After harvest:

- Collect and burn as much of the crop as possible after harvest.

### CHEMICAL CONTROL

It is unlikely that infestations would reach levels where chemical control would be necessary, or economically justified. If it is necessary, sprays of derris or pyrethrum should be tried. If a synthetic product is needed, use pyrethroids or malathion.

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*When using a pesticide, always wear protective clothing and follow the instructions on the product label, such as dosage, timing of application, and pre-harvest interval. Recommendations will vary with the crop and system of cultivation. Expert advice on the most appropriate pesticide to use should always be sought from local agricultural authorities.*



Photo 5. Leaf-footed bug, *Leptoglossus* species, on flower of pumpkin with the 'leaf' of the leg clearly showing.

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Information from Ingels C, Haviland D (2014) Pest notes: Leaf-footed bug. UC/IPM. ANR Publication 74168. (<http://ipm.ucanr.edu/PMG/PESTNOTES/pn74168.html>). and from *Leptoglossus ganagra* (2020). Wikipedia. ([https://en.wikipedia.org/wiki/Leptoglossus\\_ganagra](https://en.wikipedia.org/wiki/Leptoglossus_ganagra)). Photos 1&2 Graham Teakle, Canberra. Photos 3-5 Mani Mua, SPC, Sigatoka Research Station, Fiji.

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