

Rice green leafhopper (417)

Summary

- Restricted. Asia, Africa (Cameroon), Oceania. In Australia, Fiji, Guam, Federated States of Micronesia, Palau, Papua New Guinea.
- A minor pest of lowland irrigated rice. Also on wild grasses and sedges. Sucks sap causing white patches on tillers, wilting and collapse ('hopperburn'); indirect damage from spreading rice tungro viruses. Note, these viruses NOT in Pacific island countries; nearest country is Irian Jaya.
- Eggs laid into leaf blade or leaf sheath (groups up to 15); nymphs yellow turning light brown, then black; adults, green with two spots extending to tips of forewings, black tips to wings, and head with black bands. Not strong flyers. No large migrations.
- Natural enemies: usually under control by parasites and predators, e.g., *Cyrtorhinus lividipennis* (see Fact Sheet no. 419).
- Cultural control: isolate nurseries distant from fields preventing tungro virus infections; synchronise planting with neighbours, preventing overlap; create rice-free period so hoppers lose virus infections; transplant >3 week-old seedlings, delaying exposure to infection; do not apply excessive N; weed; check ratoon crops for tungro, and plough in stubble if tungro present; rotate with maize, soybean, peanut, or fallow.
- Chemical control: probably not required. If needed, use neem.

Common Name

Rice green leafhopper

Scientific Name

Nephotettix nigropictus; there are several other *Nephotettix* green leafhopper species that feed on rice, e.g., *Nephotettix malayanus* and *Nephotettix virescens*.

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Information from CAB International Knowledge Bank (<https://www.plantwise.org/KnowledgeBank/datasheet/36200>); and Plant-sucking pests - green leafhoppers. (<https://www.flickr.com/photos/ricephotos/6676383521/in/photostream/>); and from Catindig J (undated) Rice leafhopper, Green leafhopper. Rice Knowledge Bank. IRRI. (<http://www.knowledgebank.iri.org/training/fact-sheets/pest-management/insects/item/green-leafhopper>). Photo 1 *Nephotettix nigropictus* Natasha Wright, Cook's Pest Control, Bugwod.org. Photo 2&3 Bhupal K et al. (2019) A review of rice Tungro virus in Nepal. Journal of Plant Sciences and Crop Protection, Volume 2(1).

Produced with support from the Australian Centre for International Agricultural Research under project HORT/2016/185: Responding to emerging pest and disease threats to horticulture in the Pacific islands, implemented by the University of Queensland and the Secretariat of the Pacific Community.



Photo 1. Adult rice green leafhopper, *Nephotettix nigropictus*.

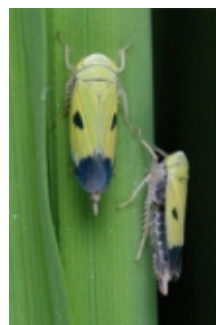


Photo 2. Adult rice green leafhoppers, *Nephotettix* sp. (Nepal).



Photo 3. Rice plant with symptoms of rice tungro disease.

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