## Austroasca viridigrisea (Hemiptera: Cicadellidae)

This short description has been prepared in the framework of the EPPO Study on Pest Risks Associated with the Import of Tomato Fruit. The whole study can be retrieved from the EPPO website.

EPPO (2015) EPPO Technical Document No. 1068, EPPO Study on Pest Risks Associated with the Import of Tomato Fruit. EPPO Paris [link]

Africa	Asia	Oceania	North America	South-Central America and Caribbean

## Austroasca (Empoasca) viridigrisea (Hemiptera: Cicadellidae) (vegetable leafhopper)

Whv Identified in the EPPO tomato study. It is a pest of vegetables in Australia.

Where EPPO region: absent

Oceania: Australia (all States and territories, Lord Howe Island – from NSW, ND)

Climatic similarity High. 8 common climates.

On which plants Originally native Solanaceae, then potato, tomato, beans, tobacco, lucerne (Page, 1983).

> NSW (ND) also mentions leafy vegetables and carrots. Cotton (Cotton CRC, 2012). Lettuce (Asteraceae), other vegetables and a wide range of other herbaceous plants (NSW. NDb) (according to AusVeg, ND, leafhoppers may be key pests of lettuce, celery and spinach).

Eggs are laid into plant tissue (leaf, stem, petiole - depending on host, Page, 1983). Nymphs and adults feed on plant (mostly foliage). They mostly suck sap from leaves; fruit may be attacked (whitish spots) (ACIAR, 2013). A. viridigrisea is reported as a pest of leafy vegetables in most parts of Australia, also attacking beans, carrots, potato and nonirrigated tomatoes (NSW, ND). Feeding leads to distortion of leaves and stunting. Trebicki et al. (2010) note it is a common pest of potatoes, tomatoes, beans, tobacco and lucerne (referring to Page), and mention it among economically-important leafhoppers of Australia. On cotton, the pest feeds preferably on mature leaves after flowering, but occasionally damages seedlings and new growth. Yield is reduced only when very high numbers occur before the production of new growth ceases (Cotton CRC, 2012). Mensah (1996) notes it is an important early season pest of cotton. ACIAR (2013), in relation to tomato, chilli, capsicum and eggplant, mentions that it is normally not a problem in these crops, for which

it is minor and infrequent. No mention of virus or phytoplasma transmission found. Adults fly and hop, nymphs can walk (to the other side of leaf or stem if disturbed). Several

life stages may be associated with host material.

Fruit if green parts attached, plants for planting, leaf vegetables, vegetables, of host plants Pathway

from countries where A. viridigrisea occurs.

Issued: 9 June 2000.

Possible risks The host plants are major crops in the EPPO region. The climatic similarity according to

the EPPO Study between the area where it occurs and the EPPO region is high.

Regulated by New Zealand for tomatoes from Australia (Biosecurity NZ, 2000)

ACIAR. 2013. Tomato, capsicum, chilli and eggplant. Australian Centre for International Agricultural Research

AusVeg. ND. Leafy vegetables. AusVeg – national peak industry body for vegetable and potato growers. http://ausveg.com.au/intranet/technical-insights/cropprotection/leafy-vegetables.htm.

Biosecurity NZ. 2000. Import Health Standard Commodity Sub-class: Fresh Fruit/Vegetables Tomato, Lycopersicon esculentum from Australia. Issued pursuant to Section 22 of the Biosecurity Act 1993. Date

Cotton CRC. 2012. leafhoppers (jassids). The Cotton Catchment Communities CRC.

http://www.cottoncrc.org.au/industry/Publications/Pests\_and\_Beneficials/Cotton\_Insect\_Pest\_and\_Beneficia I Guide/Pests by common name/Jassids and leafhoppers

Mensah RK. 1996. Evaluation of Coloured Sticky Traps for Monitoring Populations of Austroasca viridigrisea (Paoli) (Hemiptera: Cicadellidae) on Cotton Farms. Australian Journal of Entomology, 1996, 35: 349-353

NSW. ND. Data sheet on Austrosaca viridigrisea. New South Wales Government. http://www1.dpi.nsw.gov.au/keys/cicadell/species/ecokey26.htm (Accessed January 2014)

NSW. NDb. Subfamily Typhlocybinae: Tribe Empoascini. New South Wales Government. http://www1.dpi.nsw.gov.au/keys/leafhop/typhlocybinae/empoascini.htm

Page FD. 1979. The Immature Stages of Austroasca viridigrisea (Paoli) (Homoptera: Cicadellidae: Typhlocybinae). J. Aust. enr. Soc., 1979, 18 1 11-1 14

Page FD. 1983. Biology of Austroasca Viridigrisea (Paoli) (Hemiptera: Cicadellidae) J. Aust. ent. SOC., 1983,22: 149-153 149.

Damage

Dissemination

Categorization Sources

- Trebicki P, Harding RM, Rodoni B, Baxter G, Powell KS. 2010. Diversity of Cicadellidae in agricultural production areas in the Ovens Valley, north-east Victoria, Australia. Australian Journal of Entomology (2010) 49, 213–220
- Not found: Page FD. 1977. The Bionomics and Pest Status of Austroasca Viridigrisea (Paoli). University of Queensland, 1977 518 pages