1. PaDIL Species Factsheet

Scientific Name:
*Euwallacea fornicatus* (Eichhoff, 1868)
(Coleoptera: Curculionidae: Scolytinae: Xyleborini)

Common Name
tea shot-hole borer

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- Department of Agriculture, Water and the Environment
- Department of Primary Industries and Regional Development, Western Australia
- Plant Health Australia
- Museums Victoria
2. Species Information

2.1. Details

**Specimen Contact:** QDPI&F Brisbane -
**Author:** Walker, K.
**Citation:** Walker, K. (2008) tea shot-hole borer (*Euwallacea fornicatus*) Updated on 5/24/2012 Available online: PaDIL - http://www.padil.gov.au
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2.2. URL


2.3. Facets

**Status:** Exotic Species Establishment in Australia
**Group:** Beetles
**Commodity Overview:** Horticulture, Forestry
**Commodity Type:** Timber, Fresh Stems, Fresh Fruit, Ornamentals, Citrus
**Distribution:** USA and Canada, Central and South America, Europe and Northern Asia, South and South-East Asia, Australasian - Oceanian
**Antennal Club shape:** Obliquely truncate, Funicle 5-segmented antennal
**Antennal Club sutures:** Recurved, One suture
**Body colour:** Uniform
**Declivity armature:** Granulate, granules very small but never pointed
**Declivity shape:** Convex
**Elytral anterior margin:** Straight, Crenulations absent
**Eye anterior margin:** Emarginate
**Metepisternum:** Entirely visible
**Procoxae:** Contiguous
**Pronotum characters:** Anterior one-third to one-half asperate, Pronotum covers head, Pronotum as Long as Wide
**Scutellum characters:** Scutellum flush with elytra
**Frons sculpture:** Frons sculpture not convergently aciculate
**Distribution:** Australasia, Asia, North America, South America
**Hosts:** Albizia, Camellia, Citrus, Hevea, Persea, Populus, Punica, Shorea, Theobroma

2.4. Other Names

- ambrosia beetle
- shot hole borer
- *Xyleborus fornicatior* Eggers, 1923
- *Xyleborus perbrevis* Schedl, 1951
- *Xyleborus schultzei* Schedl, 1951
- *Xyleborus tapatapaoensis* Schedl, 1951
- *Xyleborus whitfordiodendrus* Schedl, 1942

2.5. Diagnostic Notes
This is a difficult species to correctly diagnose. It requires a combination of characters such as:
stout body; presence of one subapical suture on the posterior face of the antennal club; the subcarinate declivital margin; and the hairs being in rows, on the striae and interstriae.
Characters to distinguish Euwallacea fornicatus and E. validus and Euwallacea destruens:
Euwallacea destruens: Largest, body length 4.2 mm; robust, elytra 2.7 times as long as wide; pronotum subquadrate, anterior margin weakly procurred, serrations weak to absent; declivity moderately convex.
Euwallacea fornicatus: Small, body length 1.9-2.3 mm; stout, elytra 1.2 times as long as wide; pronotum more nearly subcircular, anterior margin procurred, coarsely serrate; declivity more strongly convex.
Euwallacea validus: Larger, body length 3.4-3.8 mm, more slender, elytra 1.5 times as long as wide; pronotum subquadrate, anterior margin weakly procurred, serrations weak to absent; declivity weakly convex.
Source:
HISL - PEET Xyleborini and Ken Walker for E. destruens
Euwallacea fornicatus:
The genus Euwallacea can be recognised by these characters: stout body; presence of one subapical suture on the posterior face of the antennal club; the subcarinate declivital margin; and the hairs being in rows, on the striae and interstriae.
Ken's working notes:
Theoborus: Fine granules on the posterior half of pronotum
Euwallacea: Smooth and punctate on posterior half of pronotum; One suture on posterior face of antennal club
Ambrosiodmus: Rugose on posterior half of pronotum.
Xylosandrus: Smooth and punctate from posterior half of pronotum; pronotum as wide as or wider than length; Xylosandrus spp. are distinguished from related genera (Xyleborus, Xyleborinus, Ambrosiodmus) by the stout body, truncate elytral declivity, and non-contiguous procoxae.
Gnathotrichus: Punctate on posterior half of pronotum; pronotum distinctly longer than wide c. 1.3x width
Xyleborus: No sutures on posterior face of antennal club, except suture present on antennal club in Xyleborus pelliculosus (This species may be better placed in the genus Terminalinus Hopkins.) Xyleborus is characterised by recurved sutures on the antennal club, large, flat scutellum (in Xyleborinus the scutellum is small and pointed) and the posterior half of pronotum is smooth.
Sources:
See weblinks:
- Kirkendall's bark beetles
- HISP - PEET Xyleborini

2.6. References

2.7. Web Links
Florida Pest Alert: http://www.doacs.state.fl.us/pi/enpp/ento/twonewxyleborines.html
HISL - PEET Xyleborini: http://hymenoptera.tamu.edu/keys/?taxcpl=cpl&taxcpl_id=644
Lawrence Kirkendall's bark beetle webpage: http://web.mac.com/larry.kirkendall/Kirkendalls_bark_beetles/Euwallacea_fornicalus.html
Lychee pest: http://www.cababstractsplus.org/google/abstract.asp?AcNo=20033214479
3. Diagnostic Images

Fiji: Vitilevu Nakavu, Navua at light trap det.
Jiudy King 2007
**Dorsal view:** Ken Walker Museums Victoria

- Fiji: Vitilevu Nakavu, Navua at light trap det.
  Jiudy King 2007
  **Dorsal view:** Ken Walker Museums Victoria

- Fiji: Vitilevu Nakavu, Navua at light trap det.
  Jiudy King 2007
  **Head front:** Ken Walker Museums Victoria

- Fiji: Vitilevu Nakavu, Navua at light trap det.
  Jiudy King 2007
  **Head side:** Ken Walker Museums Victoria

- Fiji: Vitilevu Nakavu, Navua at light trap det.
  Jiudy King 2007
  **Elytra:** Ken Walker Museums Victoria

- Fiji: Vitilevu Nakavu, Navua at light trap det.
  Jiudy King 2007
  **Elytra:** Ken Walker Museums Victoria

- Fiji: Vitilevu Nakavu, Navua at light trap det.
  Jiudy King 2007
  **Posterior view:** Ken Walker Museums Victoria

- Fiji: Vitilevu Nakavu, Navua at light trap det.
  Jiudy King 2007
  **Posterior view:** Ken Walker Museums Victoria

- Fiji: Vitilevu Nakavu, Navua at light trap det.
  Jiudy King 2007
  **Lateral view:** Ken Walker Museums Victoria

- Fiji: Vitilevu Nakavu, Navua at light trap det.
  Jiudy King 2007
  **Lateral view:** Ken Walker Museums Victoria
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