1. PaDIL Species Factsheet

Scientific Name:

Trogoderma granarium Everts, 1899
(Coleoptera: Dermestidae: Megatominae)

Common Name

Khapra beetle
Live link: http://www.padil.gov.au:80/pests-and-diseases/Pest/Main/135594

Image Library

Australian Biosecurity
Live link: http://www.padil.gov.au:80/pests-and-diseases/

Partners for Australian Biosecurity image library

Museum Victoria
http://museumvictoria.com.au/

CRC National Plant Biosecurity
http://www.crcplantbiosecurity.com.au/

Plant Health Australia
http://www.planthealthaustralia.com.au/

Department of Agriculture, Fisheries and Foresty
http://www.daff.gov.au/

Department of Agriculture and Food, Western Australia
http://www.agric.wa.gov.au/

2. Species Information

2.1. Details

Specimen Contact: Department of Agriculture Western Australia; AQIS - Victoria -
Author: Walker, K.
Citation: Walker, K. (2005) Khapra beetle*(Trogoderma granarium)*Updated on 10/4/2013 Available online: PaDIL - http://www.padil.gov.au
Image Use: Free for use under the Creative Commons Attribution 3.0 Australia licence

2.2. URL

Live link: http://www.padil.gov.au:80/pests-and-diseases/Pest/Main/135594

2.3. Facets

Status: Exotic Regulated Pest - absent from Australia
Group: Beetles
Commodity Overview: Field Crops and Pastures
Commodity Type: Grains, Stored Products, Cotton & other fibres, Beans & Peas, Rice
Distribution: Central and South America, Europe and Northern Asia, Africa, South and South-East Asia

2.4. Other Names

Trogoderma afrum Priesner
Trogoderma khapra Arrow
Trogoderma quinquefasciata Leesberg

2.5. Diagnostic Notes

Adult males are 1.4-2.3 mm long, 0.75-1.1 mm wide; adult females are 2.1 - 3.4 mm long, 1.7 - 1.9 mm wide, ovate and densely hairy beetles. Antennal cavities open.
The head and pronotum are dark reddish-brown, elytra reddish-brown, usually with indistinct lighter reddish-brown fasciae; centre of thorax and abdomen reddish-brown; legs yellowish-brown.
The setae on the dorsal surface are of two types: evenly distributed, coarse, semi-erect, yellowish-brown ones; and, few scattered, dark reddish brown setae, colour of setae follows the colour of cuticles. The pronotum medially and laterally has indistinct patches of yellowish-white, ensiform setae, and elytra with two or three indistinct band of yellowish-white, ensiform (flattened) setae. The median ocellus on the front is always distinct. Antennae are yellowish-brown, 9, 10 or 11 segmented, with 3-5 segmented club.
(Plant Health Australia 2005)
Diagnostic Protocol written by Andras Szito

2.6. References

Banks, H. J. 1994. Illustrated identification keys for Trogoderma granarium, T. glabrum, T. inclusum and T. variabile (Coleoptera: Dermestidae) and other Trogoderma associated with stored products. Commonwealth Scientific and Industrial Research Organisation; Division of Entomology, Technical Paper No. 32. 66pp. CPC (2004) Crop Protection Compendium. CAB International, Wallingford, UK,. http://www.cabicompendium.org/cpc/home.asp Green M, 1979. The identification of Trogoderma variabile Ballion, T. inclusum Le Conte and T. granarium Everts (Coleoptera: Dermestidae) using characters provided by their genitalia. Entomologist's Gazette, 30(3):199-204. Plant Health Australia (2005): Grains Industry

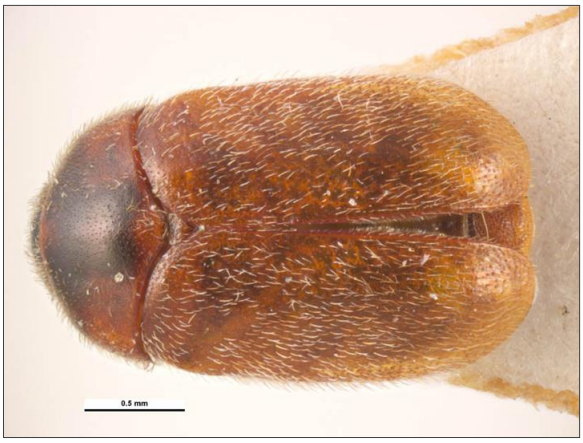
Biosecurity Pest Datasheet/ Pest Risk Review for the Grain Industry:Khapra Beetle Trogoderma granariumEverts 1898. 31pp.

2.7. Web Links

Description and Distribution: http://www.issg.org/database/species/ecology.asp?si=142&fr=1&sts=sss
Diagnostic Protocol: http://reasearchdata.museum.vic.gov.au/padil/pdfs/Trog_granarium_2008.pdf
Pest threat to Australia:
http://agspsrv38.agric.wa.gov.au/pls/portal30/docs/folder/ikmp/pw/ins/pp/sp/fs02200.pdf
PBT link: http://www.padil.gov.au/pbt/index.php?q=node/46&pbtID=150
Trogoderma adult dissection Video:
http://www.youtube.com/watch?feature=player_profilepage&v=4luzHxTv4PY
Trogoderma larval dissection video: http://www.youtube.com/watch?v=lUPHdRN88ss

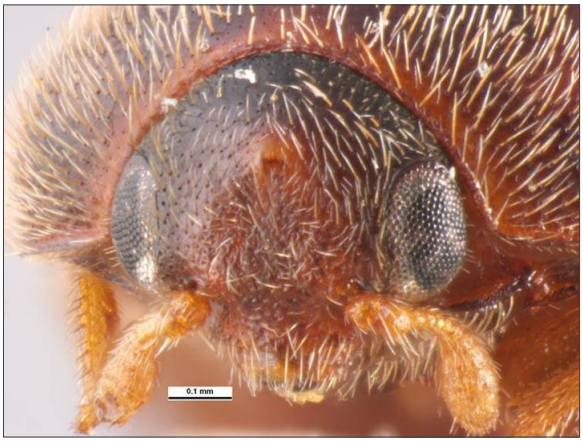
3. Diagnostic Images

AQIS Melbourne quarantine intercept
Antennal cavity: Simon Hinkley & Ken Walker Museum Victoria



AQIS Melbourne quarantine intercept
Dorsal view: Simon Hinkley & Ken Walker Museum Victoria

AQIS Melbourne quarantine intercept
Elytra: Simon Hinkley & Ken Walker Museum Victoria



AQIS Melbourne quarantine intercept
Head front: Simon Hinkley & Ken Walker Museum Victoria

AQIS Melbourne quarantine intercept
Lateral view: Simon Hinkley & Ken Walker Museum Victoria

AQIS Melbourne quarantine intercept
Pronotum: Simon Hinkley & Ken Walker Museum Victoria

4. Other Images

Specimen Locality Label: Central Science Laboratory, Sand Hutton, York, England, 2002
Dorsal View: Willow Warren Department of Agriculture Western Australia

Specimen Locality Label: Central Science Laboratory, Sand Hutton, York, England, 2002
Elytra: Willow Warren Department of Agriculture Western Australia

Specimen Locality Label: Central Science Laboratory, Sand Hutton, York, England, 2002
Head - Dorsal View: Willow Warren Department of Agriculture Western Australia

Specimen Locality Label: Central Science Laboratory, Sand Hutton, York, England, 2002
Head - Front View: Willow Warren Department of Agriculture Western Australia

Specimen Locality Label: Central Science Laboratory, Sand Hutton, York, England, 2002
Head - Side View: Willow Warren Department of Agriculture Western Australia

Specimen Locality Label: Central Science Laboratory, Sand Hutton, York, England, 2002
Lateral View: Willow Warren Department of Agriculture Western Australia

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Tuesday, March 31, 2020