1. PaDIL Species Factsheet

Scientific Name:
*Coccotrypes cyperi* (Beeson, 1929)
(Coleoptera: Curculionidae: Scolytinae: Dryocoetini)

Common Name
seed 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:** Bishop Museum, Hawaii -

**Author:** Walker, K.

**Citation:** Walker, K. (2008) seed borer (*Coccotrypes cyperi*) Updated on 1/30/2011 Available online: PaDIL - http://www.padil.gov.au

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2.2. URL


2.3. Facets

**Status:** Exotic Species Outbreak in Australia

**Group:** Beetles

**Commodity Overview:** Horticulture, Forestry

**Commodity Type:** Timber, Fresh Fruit, Ornamentals

**Distribution:** Central and South America, South and South-East Asia, Australasian - Oceanian

**Antennal Club shape:** Obliquely truncate, Funicle 5-segmented antennal

**Antennal Club sutures:** Absent, Recurved, One suture, Two sutures

**Body colour:** Uniform, Pronotum and elytra of contrasting colors

**Declivity armature:** Unarmed and smooth

**Declivity shape:** Convex

**Elytral anterior margin:** Straight, Crenulations absent

**Eye anterior margin:** Emarginate

**Metepisternum:** Entirely visible

**Procoxae:** Contiguous

**Pronotum characters:** Pronotal disc covered with asperities, Without asperites, Pronotum covers head, Pronotum Longer than Wide

**Scutellum characters:** Scutellum small and cone shaped

**Frons sculpture:** Frons sculpture convergently aciculate (appearing as though someone has raked sand)

**Distribution:** Africa, Cosmopolitan, Australasia, Asia, Europe, North America, South America, Pacific

**Hosts:** Annona, Coccothrinax, Coccothrinus, Cynometra, Eugenia, Euterpe, Livistonia, Mammea, Mangifera, Orbignya, Persea, Phoenix, Phytelephas, Rhizophora, Sabal, Theobroma, Thrinax

2.4. Other Names

*Coccotrypes insularis* Eggers, 1940

*Dryocoetes insularis* Eggers, 1940

*Dryocoetes subimpressus* Eggers, 1940

*Poecilips caraibicus* Schedl, 1952

*Poecilips eggersi* Schedl, 1952

*Poecilips pilifrons* Browne, 1970

*Poecilips subaplanatus* Schedl, 1942

*Thamnurgides indicus* Eggers, 1936

*Xyleborus conspeciens* Eggers, 1936
2.5. Diagnostic Notes

Diagnosis: Species in the genus Coccotrypes can be distinguished from those in Dryocoetes by the convergently aciculate frons, the smaller oral region and its subtropical distribution and hosts.

Description: Species in this genus range from 1.2 to 2.5 mm in length and are approximately 2.1 to 2.5 times as long as wide. Their colour ranges from reddish brown to almost black. The frons is convergently aciculate with a sparse, hair-like vestiture. The pronotum is usually longer than wide, with or without asperities. The scutellum is small. The declivity is convex and unarmed. The vestiture consists of abundant and erect hair-like setae. The anterior margin of the compound eye is emarginate. The scape is longer than the 5-segmented funicle. The club is obliquely truncate, with none to two recurved sutures on its posterior face. The procoxae are contiguous.

Coccotrypes species have a generally convex appearance and are hairy across the dorsal surface. Frons convergently aciculate (ie. appearing as if scratched by a needle; appear to be scarified); elytral declivity evenly convex, extending over at least posterior 1/3 of elytra, granules absent; protibia with 2-4 teeth on lateral margin; posterior face of antennal club with 2 sutures.

Characters useful to distinguish C. advena, C. cyperi, C. distinctus, C. dactyliperda and C. carpophagus include:

1a. - Strial setae completely obsolete, interstrial bristles coarse; pronotum smooth and shining between punctures which occur on anterior and posterior areas, pronotum much more broadly convex both longitudinally and transversely, its anterior margin more broadly rounded and devoid of serrations

C. advena - (1.4-2.0mm) Pronotum smooth, shining and devoid of asperities,

C. cyperi - (1.7 - 2.3mm) Pronotum asperites present, moderately coarse, extending to base of pronotum

1b. - Rows of strial setae conspicuously present between rows of longer, fine, interstrial setae; pronotum more strongly, narrowly convex both longitudinally and transversely, its anterior margin more narrowly rounded and partly serrate

C. distinctus - (1.7-2.3mm) Reddish-brown; Pronotum widest near base, pronotum barely narrowed posteriorly; distinguish from C. carpophagus and C. dactyliperda by the smaller and more sparse asperities on the pronotum

C. dactyliperda - (1.8-2.3mm) Reddish-brown; Pronotum widest about one-third from base, pronotum distinctly narrowed posteriorly; strial punctures slightly larger than in C. carpophagus, interstrial setae on declivity longer than on C. carpophagus, setae almost twice as long as distance between rows.

C. carpophagus - (1.5-1.9mm) Dark brown to almost black; Pronotum widest about one-quarter from base, pronotum not narrowed posteriorly, almost parallel; strial punctures slightly smaller than in C. dactyliperda, interstrial setae on declivity shorter than on C. dactyliperda, setae only slightly longer than distance between rows.

Source:

2.6. Web Links

Excellent images: http://insectdatabases.oeb.harvard.edu/Caribbean/Mantisweb/FMPro?-DB=Image.drd&Lay=web-&Format=images_dr.htm&Species_ID=36505&-Find
3. Diagnostic Images

Marquesas Arch: Nuku Hiva I: Terre Deserte Tapueahu V, nr road, 1100m, Aug 1988, ex Santalum bark. BISHOP Museum

**Dorsal view:** Ken Walker Museums Victoria

**Elytra:** Ken Walker Museums Victoria

Marquesas Arch: Nuku Hiva I: Terre Deserte Tapueahu V, nr road, 1100m, Aug 1988, ex Santalum bark. BISHOP Museum

**Head front:** Ken Walker Museums Victoria

**Head side:** Ken Walker Museums Victoria

Marquesas Arch: Nuku Hiva I: Terre Deserte Tapueahu V, nr road, 1100m, Aug 1988, ex Santalum bark. BISHOP Museum

**Lateral view:** Ken Walker Museums Victoria

**Posterior view:** Ken Walker Museums Victoria

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