

Pacific Pests, Pathogens & Weeds - Mini Fact Sheet Edition

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Coffee berry borer (118)



Photo 1. Adult coffee bean borer, *Hypothenemus* hamperi, about 1.5 mm long and covered with stiff



Photo 2. Adult *Hypothenemus hampei*, about 1.5 mm long, showing its relative size to a coffee bean.



Photo 3. The life cycle of the coffee bean borer,

Hypothenemus hamperi, takes place in the coffee bean;
this photo shows the frass that accumulates as the
larvae and adults eat the beans.



Photo 4. Coffee beans damaged by the coffee bean borer, Hypothenemus hamperi. Even a few bored beans lower quality, and if the consignment is not dried properly the beetles will continue to breed in storage and increase the damage.

Summary

- Worldwide distribution. On arabica and robusta coffee. A major beetle pest.
- The female bores into the berries to lay eggs, the larvae hatch and eat the beans, and winged female adults leave in search of other berries.
- Adults swarm, so possibly spread is in air updrafts.
- Natural enemies: the fungus *Beauvaria* appears to give the good control, compared to parasitoids or ants which have provided little control
- Cultural control: pick berries as they ripen; collect fallen blackened berries, or break cycle over 3 months by collecting berries on the ground and stripping them from the bush; after harvest, prune to keep bushes at manageable height; destroy abandoned plantations.
- Chemical control: use Beauvaria, a fungus (to preserve natural enemies); or use pirimiphos methyl.

Common Name

Coffee berry borer

Scientific Name

Hypothenemus hampei

24pp. (http://www.mdpi.com/2075-4450/7/1/6). Photo 1 Georg Goergen, IITA-Benin. Photo 2 Peggy Greb, USDA, ARS Photo 3 Save Kona coffee! Fighting the coffee berry borer. (http://marcoinkona.com/2012/04/21/save-kona-coffee-berry-borer/). Photo 4 Forest and Kim Star. Coffee Berry Borer parchment seeds with damage sample at Kula Community Centre, Maui, Hawaii. (https://www.flickr.com/photos/starr-environmental/32087834650/).

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This mini fact sheet is a part of the app Pacific Pests, Pathogens & Weeds

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