



Pacific Pests and Pathogens - Mini Fact Sheet Edition

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Mango seed weevil (353)



Photo 1. Adult mango weevil, *Sternochetus mangiferae*.



Photo 2. Mango seed weevil, *Sternochetus mangiferae*.
Side view.



Photo 3. Larva, pupa and adult (ventral view) of the mango seed weevil, *Sternochetus mangiferae*.



Photo 4. Pupa of the mango seed weevil, *Sternochetus mangiferae*, surrounded by frass.



Photo 5. Close-up of Photo 3, showing pupa of the mango seed weevil, *Sternochetus mangiferae*, inside a mango seed.

Summary

- Widespread distribution: In Oceania, Australia, Fiji, French Polynesia, Guam, New Caledonia, Northern Mariana Islands, Tonga, and Wallis and Futuna. A brown, black or grey seed weevil.
- Eggs laid into slits on fruit, larvae burrow into flesh to find the seed, and later pupate. Fruits fall and after 2 months adults emerge.
- Spread occurs inside infested fruit. Survival in leaf litter and under bark or in seed.
- A damaging 'cosmetic' pest: i) dark (egg-laying) marks on fruit, ii) larvae/pupae and frass in seed.
- Natural enemies: weaver ant, *Oecophylla smaragdina*.
- Biosecurity: if weevil not present, use 'area freedom' - See FAO International Standards for Phytosanitary Measures.

- Cultural control: if weevil present, collect fallen fruit/seeds and destroy; ban fruit entering plantations; remove non-commercial trees or spray with insecticides.
- Chemical control: when egg-laying sites seen, spray canopy once or twice (October/November), and when adults emerge (February/March). In Australia, chlorpyrifos and methidathion are used.

Common Name

Mango seed weevil, mango stone weevil, mango weevil

Scientific Name

Sternochetus mangiferae; previously, *Cryptorhynchus mangiferae*.

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Information from ¹CABI *Sternochetus mangiferae* (mango seed weevil) (2017) Crop Protection Compendium. (www.cabi.org/cpc); and Woodruff RE, *et al.* (2014) Featured Creatures: Mango seed weevil. UF/IFAS, University of Florida. (http://entnemdept.ufl.edu/creatures/fruit/beetles/mango_seed_weevil.htm); and from Mango seed weevil. Department of Agriculture and Fisheries, Queensland Government. (<https://www.daf.qld.gov.au/plants/fruit-and-vegetables/a-z-list-of-horticultural-insect-pests/mango-seed-weevil>). Photo 2 Ken Walker (2005) *Sternochetus mangiferae*. PaDIL - (<http://www.padi1.gov.au>).

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This mini fact sheet is a part of the app *Pacific Pests and Pathogens*

The mobile application is available from the Google Play Store and Apple iTunes.

