



Pacific Pests and Pathogens - Mini Fact Sheet Edition

<https://apps.lucidcentral.org/ppp/>

Rats (035)



Photo 1. Cocoa pods eaten by rats.



Photo 2. Polynesian rat, *Rattus exulans*.



Photo 3. Black (or ship) rat, *Rattus rattus*.



Photo 4. Brown rat, *Rattus norvegicus*.

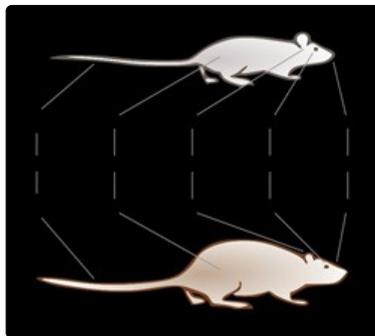


Diagram comparing the characteristics of black and brown rats.



Photo 5. An example of a snap trap.

Summary

- Three types. Pacific rat (Asia and Pacific islands, small, nests on the ground); black rat (worldwide, often nests in trees) and brown rat (worldwide, mostly in human settlements; nests underground). Important pests.
- Attack cassava, cocoa, coconut, oil palm, peanut, maize, rice, sweetpotato, and others in storage; also, carry fleas with bacteria causing scrub typhus.
- Cultural control: do not leave food for rats to eat; aluminium bands around coconuts; snap-traps; cats.
- Chemical control: *Gliricidia* leaves (or *Barringtonia*, flesh of fish poison tree) mixed daily with e.g., cooked rice or root crops; alternatively, warfarin or brodifacoum in baits with coconut, wheat or maize (place in e.g., bamboo sections. Put out in evening and collected in mornings).

Common Name

Polynesian rat, black rat (also called ship rat), brown rat

Scientific Name

Rattus exulans (Pacific rat); *Rattus rattus* (black rat); *Rattus norvegicus* (brown rat).

AUTHORS Helen Tsatsia & Grahame Jackson

Photos 2&4 Gerald McCormack, Cook Islands Biodiversity & Natural Heritage (<http://cookislands.bishopmuseum.org/>). Photo 3 Wikipedia. (http://en.wikipedia.org/wiki/Black_rat). Diagram Wikipedia Black rat. (https://en.wikipedia.org/wiki/Black_rat). Photo 5 Snap trap. (<http://www.easypestsupplies.com.au/rat-snap-trap-x-5.html?gclid=CNL6t4OV9LACFdd6vQod2k8Ayg>).

Produced with support from the Australian Centre for International Agricultural Research under project PC/2010/090: *Strengthening integrated crop management research in the Pacific Islands in support of sustainable intensification of high-value crop production*, implemented by the University of Queensland and the Secretariat of the Pacific Community.

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.

