

Pacific Pests, Pathogens & Weeds - Mini Fact Sheet Edition

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Formosan subterranean termite (440)



Photo 1. Adult worker (above), soldier (below), Formosan subterranean termite, *Coptotermes formosanus*.



Photo 2. Worker (side view), Formosan subterranean termite, *Coptotermes formosanus*.



Photo 3. Soldier (side view), Formosan subterranean termite, *Coptotermes formosanus*.



Photo 4. Workers and soldiers, Formosan subterranean termite, *Coptotermes formosanus*



Photo 5. Winged reproductives, also known as 'swarmers'.



Photo 6. Carton nest made from frass, soil, chewed wood and saliva, Formosan subterranean termite, *Coptotermes formosanus*.

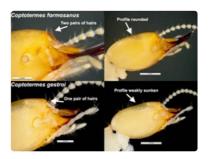


Photo 7. Comparison of features of the Formosan subterranean termite, *Coptotermes formosanus*, with the Asian subterranean termite, *Coptotermes gestroi*.

Summary

- Widespread. Asia, Africa (South Africa), North America (including Hawaii), the Caribbean (US Virgin Islands), Oceania. In Marshall Islands.
- Serious invasive pest. Large colonises and damage happens quickly. Attacks on living trees and buildings cause loss of native diversity, a need for expensive treatments, and increased pesticide use.
- Colonies contain kings and queens (sexually mature males and females), i.e., 'reproductives' (winged, yellow-brown bodies, golden-brown heads, 12-15 mm); soldiers (whitish, 4-5 mm long, orange-brown oval heads exude defensive glue-like fluid, pincer-like mouthparts); workers (whitish, collect cellulose, build nests, feed larvae).
- Reproductives swarm briefly, females lay eggs in moist holes or crevices, and care for them. Later, more eggs and workers take
 over. Colony expands, many millions, then 5-7 years later reproductives swarm again. Ususal food is living and dead trees; more
 recently invaded towns and cities to feed on building timbers.
- Spread with wooden cargoes on ships (pallets, telephone poles, rail sleepers, soil, and more).
- Biosecurity: listed by IUCN among 100 of World's Worst Invasive Species. National legislation and awareness is needed to prevent its introduction or further spread.
- Cultural control: restrict movement of wood, plants, soil in infested areas; inspect homes and trees regularly; where practical, allow sunshine into buildings, and free flow of fresh air; practice good hygiene in and around homes; clean drains avoid lingering puddles, and repair any leaks.
- Chemical control: apply building codes to prevent termite infestations; apply toxic insecticides as barriers beneath buildings; use baits (chiton synthesis inhibitors) in monitoring stations around buildings.

Common Name

Formosan subterranean termite

Scientific Name

Coptotermes formosanus. It is also known as Coptotermes intrudens. Coptotermes gestroi is similar (see Fact Sheet no. 384).

AUTHOR Grahame Jackson

Information from CABI (2019) Coptotermes formosanus (Formosanus termite). Crop Protection Compendium. (http://www.cabi.org/cpc); and Su N-Y, Scheffrahn RH (2019) Formosan subterranean termite. Featured Creatures UFIFAS University of Florida. (https://en.wikipedia.org/wiki/Formosan_termite). Wikipedia. Org/wiki/Formosan_subterranean termite. Photo 1 Cerald J. Lenhard, Lenhard, Lenhard, Sate University, Bugwood org. Photos 2&3 Pest and Diseases Image Library, Bugwood org. Photos 4&5 Scott Bauer, USDA Agricultural Research Service, Bugwood org. Photo 6 Wood Product Insect Lab USFS, Gulfport, MS, Bugwood org. Photo 7. Simon Hinkley & Ken Walker Victorian Museum. In: Walker K (2005) Formosan subterranean termite (Coptotermes formosanus). PaDIL - http://www.padi.gov.au

Produced with support from the Australian Centre for International Agricultural Research under project HORT/2016/185: Responding to emerging pest and disease threats to horticulture in the Pacific islands, implemented by the University of Queensland and the Secretariat of the Pacific.

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

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