



## Pacific Pests, Pathogens & Weeds - Mini Fact Sheet Edition

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

### Big-headed ant (361)

Relates to: [Ants](#)



Photo 1. Side view of 'major' worker, big-headed ant, *Pheidole megacephala*.



Photo 2. Front view, head of 'major' worker, big-headed ant, *Pheidole megacephala*.



Photo 3. Front view, head of 'minor' worker, big-headed ant, *Pheidole megacephala*.

### Summary

- Worldwide distribution. Common in Pacific island countries. Among world's 100 worst invasive species.
- Nests under logs, stones, tree bark, leaf litter, and occasionally in houses. Prefers disturbed areas. Eat seeds, other insects, small lizards and birds, and honeydew. A scavenger. Once colonised established, biodiversity declines.
- Direct damage to agriculture seeds and plant parts; indirectly by defending aphids, mealybugs, scales and whiteflies from natural enemies.
- Queens mate inside colony. Workers are 'major' (big-headed soldiers) or 'minor' (much smaller workers) that rear the brood.
- Tramp ant; spread by 'budding' - queens, workers and brood move to new sites. Spread with international trade.
- Biosecurity: requires risk assessments, regulations preventing introduction, protocols in case of breaches, and ability to make rapid response. Pacific Ant Prevention Plan available (IUCN/SSC Invasive Specialist Group).
- Cultural control: hot water at 47°C kills ants; over 49°C kills plants.
- Chemical control: use i) stomach poisons (fipronil, Amdro borax), ii) growth regulators (methoprene, pyriproxyfen), iii) nerve poisons (bifenthrin, fipronil, imidacloprid). See (<http://piat.org.nz/getting-rid-of-ants>).

### Common Name

Big-headed ant, African big-headed ant, coastal brown ant.

### Scientific Name

*Pheidole megacephala*

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Information from CABI *Pheidole megacephala* (big-headed ant) (2018) Crop Protection Compendium. ([www.cabi.org/cpci](http://www.cabi.org/cpci)); and Pacific Invasive Ant Toolkit. (<http://www.piat.org.nz/problem-ants/worst-5-identification/african-big-headed-ant>); and *Pheidole megacephala*. Ant Wiki. ([http://www.antwiki.org/wiki/Pheidole\\_megacephala](http://www.antwiki.org/wiki/Pheidole_megacephala)); and AntWeb. (<https://www.antweb.org/description.do?rank=species&genus=phaidole&name=megacephala>); and from *Pheidole megacephala* (2018) Global Invasive Species Database. (<http://www.iucngisd.org/gisd/speciesname/Pheidole+megacephala>). Photos 1-3 Simon Hinkley & Ken Walker (2006) Coastal brown-ant (*Pheidole megacephala*). Museum of Victoria. PaDIL - (<http://www.padil.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 Community.

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