

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

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## Red imported fire ant (363)

**Relates to: Ants** 



Photo 1. Front view, 'minor' worker, red imported fire ant, *Solenopsis invicta*.



Photo 2. Side view, 'minor' worker, red imported fire ant, *Solenopsis invicta*.



Photo 3. Gaster, 'minor' worker, red imported fire ant, Solenopsis invicta.



Photo 4. Front view, 'major' worker (soldier), red imported fire ant, *Solenopsis invicta*.



Photo 5. Side view, 'major' worker (soldier), red imported fire ant, *Solenopsis invicta*.



Photo 6. Gaster, 'makor' worker (soldier), red imported fire ant, *Solenopsis invicta*.

### **Summary**

- Worldwide distribution. Not recorded from Pacific island countries. Present in Australia (under eradication). Among world's 100 worse invasive species.
- Ground-nesting in sunny agricultural, forestry, grasslands, urban areas. More aggressive and painful sting than tropical fire ant.
- Nests mounds up to 40 cm, 30-50 cm diameter; entrance holes 5-10 m away. Eat seeds, other insects, smaller vertebrates and honeydew.
- Direct damage: vegetable seeds, fruits, new shoots and roots (large annual costs in US and Australia); loss of biodiversity; indirectly by defending aphids, mealybugs, scales and whiteflies from natural enemies.
- Queens, males and three types of workers: minor, major and intermediate. Nests mostly with 2 or more queens, Up to 500 colonies/ha and each colony 200-400,000. Some with single queens.
- Tramp ant. Spread by queens leaving nest, nuptial flight then new site, or 'budding'; spread via horticultural 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).
- Natural enemies: several Pseudacteon species under study in US.
- Cultural control: hot water at 47°C kills ants; over 49°C kills plants.
- Chemical control: use i) stomach poisons (fibronil, Amdro borax), ii) growth regulators (methoprene, pyriproxyfen), iii) nerve poisons (bifenthrin, fipronil, imidacloprid). See (http://piat.org.nz/getting-rid-of-ants).

#### **Common Name**

Red imported fire ant

#### Scientific Name

Solenopsis invicta

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Information from CABI Solenopsis invicta (red imported fire ant) (2017) Crop Protection Compendium (www.cabi.org/cpc); and Pacific Invasive Ant Toolkit. (http://www.piat.org.nz/problem-ants/worst-5-identification/red-imported-fire-ant); and Solenopsis invicta. Ant Wiki. (http://www.piat.org.nz/problem-ants/worst-5-identification/red-imported-fire-ants/worst-5-identification/red-imported-fire-ants/worst-5-identification/red-imported-fire-ants/worst-5-identification/red-imported-fire-ants/worst-5-identification/red-imported-fire-ants/worst-5-identification/red-imported-fire-ants/worst-5-identification/red-imported-fire-ants/worst-5-identification/red-imported-fire-ants/worst-5-identification/red-imported-fire-ants/worst-5-identification/red-imported-fire-ants/worst-5-identification/red-imported-fire-ants/worst-5-identification/red-imported-fire-ants/worst-

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

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