

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

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## Citrus root & collar rot (264)



Photo 1. Root and collar rot of citrus caused by Phytophthora nicotianae.



Photo 2. Aboveground signs of root and collar rot of citrus caused by *Phytophthora nicotianae*.

#### **Summary**

- Worldwide distribution. On bele (see Fact Sheet no. 149), citrus, papaya (see Fact Sheet no. 152),
  passionfruit (see Fact Sheet no. 154), pineapple, tobacco, tomato (see Fact Sheet no. 157) and many other hosts. An important disease.
- A water mould, an oomycete, not a fungus. Worse in wet soils. Root are infected and rot; collar rots occur causing the bark to dry, die and fall away, and the trunk to ooze gum.
- Above-ground, leaves yellow, dry and fall, and branches dieback. Lower fruit become infected.
- Cultural control: drainage; bud high on root stock; ensure nursery plants are disease free; weed; prune low-hanging branches; importantly, seek local advice on root stock varieties.
- Chemical control: copper against lower fruit infections and collar rots; phosphorous acid after times of flowering and main leaf flushes.

### **Common Name**

Citrus root and collar rot, Phytophthora foot and root rot (*Phytophthora nicotianae*), and brown rot of citrus fruit (*Phytophthora citrophthora*).

#### Scientific Name

Worldwide; two species are commonly found causing root and collar rots on citrus: *Phytophthora nicotianae*, and *Phytophthora citrophthora*.

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Photo 1 Kohler F, Pellegrin F, Jackson G, McKenzie E (1997) Diseases of cultivated crops in Pacific Island countries. South Pacific Commission. Pirie Printers Pty Limited, Canberra, Australia. Photo 2 Diseases of fruit crops in Australia (2009). Editors, Tony Cooke, Denis Persley, Sasan House. CSIRO Publishing. Information from Hardy S, Barkley P, Creek A, Donovan N (2012) Impacts and management of flooding and waterlogging in citrus orchards. NSW Covernment Department of Primary Industries; and from CABI (2015) Phytophthora nicotianae (black shank) and Phytophthora citrophthora citrophthora fruit) Crop Protection Compendium. (www.cabi.org/cpc).

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

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