



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

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

### Sweetpotato virus G (374)



Photo 1. Appearance of sweet potato virus-G on the indicator plant, *Ipomoea setosa*. Symptoms on sweet potato varieties are rare in the field.

#### Summary

- Worldwide distribution. Present in several Pacific island countries. Only found in sweet potato. The abbreviation is SPVG. It is a potyvirus.
- Damage: on its own no symptoms and probably little impact on yield; with other viruses, e.g., *Sweetpotato feathery mottle* (and perhaps *Sweetpotato chlorotic stunt virus*), SPVG multiplies many times normal resulting in lower yields.
- Detection: grafting to *Ipomoea setosa*, or using ELISA and/or PCR.
- Natural enemies: there are many parasitoids and predators of aphids, but aphids are not commonly seen on sweet potato in Pacific island countries, so their effect is probably small.
- Spread by aphids, infected cuttings and storage roots.
- Cultural control: use planting material from healthy 'seed' scheme (i.e., mother plants regrown from meristems after heat treatments and tested negatively for SPVG).
- Chemical control: Not a method to use as insecticides cannot kill the aphids before they have transferred the virus.

#### Common Name

Sweet potato virus G.

#### Scientific Name

*Sweetpotato virus G*; previously it was known as C8 virus. The abbreviation is SPVG. Different strains of SPVG are reported. The virus particles are flexus rods.

---

AUTHORS Sandra Dennien & Grahame Jackson

Information from Dennien *et al.* (2013) Growing healthy sweetpotato: best practices for producing planting material. ACIAR Monograph no. 153. Australian Centre for International Agricultural Research: Canberra. 176 pp. Photo 1 Segundo Fuentes. International Potato Center, Peru.

Produced with support from the Australian Centre for International Agricultural Research under projects i) 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, and ii) PC2011/053: *Supporting commercial sweetpotato production and marketing in the PNG Highlands*, implemented by the Central Queensland University and the Queensland Department of Agriculture and Fisheries.

---

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

The mobile application is available from the Google Play Store and Apple iTunes.





Australian Government  
Australian Centre for  
International Agricultural Research

---

*Copyright © 2020. All rights reserved.*