



Pacific Pests, Pathogens & Weeds - Mini Fact Sheet Edition

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Rose powdery mildew (387)



Photo 1. Rose powdery mildew, *Podosphaera pannosa*, on leaves and flower stalks.



Photo 2. Rose powdery mildew, *Podosphaera pannosa*, on flower stalks.

Summary

- Worldwide distribution. In Oceania, Australia, New Caledonia, New Zealand, Tonga. A disease of rose.
- Damage: white powdery growth (masses of spores) over surface of leaves, stems and flowers, causing distortions, leaf curling, and unsightliness of the flowers affecting appearance and economic value.
- Spread: spores in wind. Note, free water not needed for germination and infection. Survival unusual - fungal mycelium survives in the bud.
- Cultural control: in the nursery - check plants for infection; in the field/garden choose sunny, well-drained site, and space to allow good air circulation; water frequently, early morning, avoiding overhead irrigation; prune infected leaves, flowers; avoid over-fertilization; weed; resistant varieties.
- Chemical control: minerals i) sulphur, copper, sodium (or potassium) bicarbonate; botanicals ii) neem, garlic, rosemary, thyme, clove oils, vinegar; synthetics iii) protectant fungicides - mancozeb or systemic fungicides - triazole or strobilurin. Milk can also be used.

Common Name

Rose powdery mildew

Scientific Name

Podosphaera pannosa; previously it was known as *Sphaerotheca pannosa*.

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Information from *Podosphaera pannosa*. Wikipedia. (https://en.wikipedia.org/wiki/Podosphaera_pannosa); and *Podosphaera pannosa* (powdery mildew of rose) (2018) Crop Protection Compendium (www.cabi.org/cpc); and from Pegg K & Manners A (2015) Powdery mildew. A myriad of nursery pathogens. Agri-science Queensland, Department of Agriculture, Fisheries, Ecosciences Precinct, Brisbane QLD. Photo 1 Clemson University - USDA Cooperative Extension Slide Series, Bugwood.org

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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.

