

Bean Phaseolus rust (217)

Summary

- Worldwide distribution. On *Phaseolus* species. Usually, a major disease depending on variety.
- Circular pustules, 1-2 mm, light green at first on both leaf surfaces, with halos on the top. Bursting to produce reddish-brown spores.
- Spread is by spores in the wind.
- Cultural control: plant beans with maize, at random, not in rows; use a 2-year crop rotation; do not plant overlapping crops; resistant varieties; collect and burn trash after harvest.
- Chemical control: use mancozeb, starting when the spots are first seen.

Common Name

Bean rust (*Phaseolus* species).

Scientific Name

Uromyces appendiculatus var. *appendiculatus*. Previously *Uromyces phaseoli*.



Photo 1. Bean rust, *Uromyces appendiculatus*, on *Phaseolus* bean leaves.



Photo 2. Bean rust, *Uromyces appendiculatus*, on the top surface (right) and underside (left) of *Phaseolus* bean leaves.

AUTHOR Grahame Jackson

Information from *Diseases of vegetable crops in Australia* (2010), Editors, Denis Persley, et al. CSIRO Publishing, and Liberato JR, Sartorato A (2005) Bean Leaf Rust (*Uromyces appendiculatus* var. *appendiculatus*): PaDIL - <http://www.padil.gov.au>; and CABI (2019) *Uromyces appendiculatus* (bean rust), Crop Protection Compendium. (<https://www.cabi.org/cpc/datasheet/55816>); ¹McKenzie E, Jackson G (1986) The fungi, bacteria and pathogenic algae of Solomon Islands. Field Document 11, RAS/83/001. Food and Agriculture Organization of the United Nations in association with the South Pacific Commission. Photo 1 Kohler F, et al. (1997) *Diseases of cultivated crops in Pacific Island countries*. South Pacific Commission, Pirie Printers Pty Limited, Canberra, Australia.

Produced with support from the Australian Centre for International Agricultural Research under project PC/2010/090: *Strengthening integrated crop management research in the Pacific Islands in support of sustainable intensification of high-value crop production*, implemented by the University of Queensland and the Secretariat of the Pacific Community.

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