

Bean (*Vigna*) rust (234)

Summary

- Worldwide distribution. On *Vigna* species, crops (cowpea, long bean) and weeds. Another species infects *Phaseolus*. Rust comes late, and the impact is relatively small.
- Reddish-brown, circular pustules with yellow halos on leaves and pods, producing powdery spores.
- Spread by spores blown 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

Scientific Name

Uromyces vignae

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Information from CABI (2019) *Uromyces vignae* (rust: cowpea). Crop Protection Compendium. (<https://www.cabi.org/cpc/datasheet/55871>). Photo 1 Kohler F, et al. (1997) *Diseases of cultivated crops in Pacific Island countries*. South Pacific Commission. Pirie Printers Pty Limited, Canberra, Australia. Photo 2 Yuan-Min Shen, Taichung District Agricultural Research and Extension Station, Bugwood.org.

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Photo 1. Rust, *Uromyces vignae*, on the upper surface of a yard-long bean leaf.



Photo 2. Close-up infected leaf of a yard-long bean leaf with bean rust, *Uromyces vignae*.

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