



Pacific Pests, Pathogens & Weeds - Mini Fact Sheet Edition

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

Bean (Ascochyta) leaf spot (319)



Photo 1. Leaf spot of Ascochyta spot, *Boeremia exigua* on tobacco.



Photo 2. Ascochyta spots on bean leaves, *Boeremia exigua*. The spot on the left shows concentric rings and a dark margin.



Photo 3. Leaf spots of Ascochyta spot, *Boeremia exigua*, on common bean. The leaf on the right shows spots with ring patterns.



Photo 4. A spore-containing sac (pycnidia) of Ascochyta spot, *Boeremia exigua*.



Photo 5. Ascochyta spot, *Boeremia exigua*, on bean pods.

Summary

- Worldwide distribution. On wide range of plants, especially beans and other food legumes; also on citrus and capsicum. Minor fungal disease,
- Weak pathogen, requiring wounds from insects or weather to enter leaves and pods.
- Grey to brown spots on leaves, 6-12 mm diameter, with concentric circles; sometimes falling out. Darker spots on pods. Tiny, black, spore-containing sacs on spots, seen with naked eye.
- Spread occurs in wet weather; spores ooze from sacs and blown in wind and rain. Possibly, seed-borne.
- Cultural control: certified seed or treat seed in hot water (50°C for 25-30 mins); remove volunteers; select well-drained soils; avoid damage by strong winds, and during cultural operations; weed; after harvest, handle beans carefully; collect and burn crop debris; crop rotation.
- Chemical control: probably not needed as wound pathogen; if required, use pyrethrum, or synthetic pyrethroids.

Common Name

Ascochyta spot.

Scientific Name

Boeremia exigua; previously known as *Ascochyta phaseolorum*, and *Phoma exigua*, and many other names. The name now given to the fungus is *Boeremia exigua* var. *exigua*.

AUTHORS Grahame Jackson & Eric McKenzie

Information (and Photos 2&5) *Diseases of vegetable crops in Australia* (2010). Editors, Denis Persley, Tony Cooke, Susan House. CSIRO Publishing; and from CABI (2016) *Boeremia exigua* var. *exigua* (leaf spot) Crop Protection Compendium. (www.cabi.org/cpc). Photo 1 R.J. Reynolds Tobacco Company Slide Set R.J. Reynolds Tobacco Company, Bugwood.org. Photo 3 Howard F. Schwartz Colorado State University, Bugwood.org. Photo 4 (taken by Eric McKenzie), and used in this fact sheet, appeared previously in McKenzie E (2013) *Boeremia exigua* PaDIL - (<http://www.padil.gov.au>).

Produced with support from the Australian Centre for International Agricultural Research under project PC2010/090: *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.

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.

