

Pacific Pests, Pathogens & Weeds - Mini Fact Sheet Edition

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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.

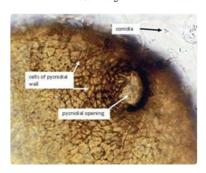


Photo 4. A spore-containing sac (pycnidia) of Ascochyta spot, *Boeremia exigua*.



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 pyrethoids.

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.

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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 Colardo 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).

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