



## Pacific Pests, Pathogens & Weeds - Mini Fact Sheet Edition

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### Tobacco brown spot (306)

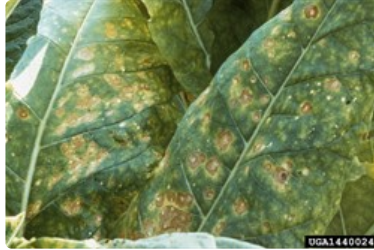


Photo 1. Brown spot of tobacco. In this instance, the cause is given as *Alternaria alternata*. Pale brown spots, with darker margins and yellow halos.



Photo 2. Brown spot of tobacco, *Alternaria alternata*. Close-up a single spot, showing faint target-like rings.

#### Summary

- Worldwide distribution. A primary pathogen on tobacco, but a wound pathogen of many others. A minor fungal disease.
- Leaf spots, small, round at first, expanding as leaves mature, up 25 mm diameter, zoned, first on the lower leaves. Spots merge, and centres fall out. Upper leaves infected on susceptible varieties.
- Spread by airborne spores, or spores splashed by water onto lower leaves; spread by seed containing infected leaf pieces. Survival in plant debris.
- Cultural control: note similarity with tobacco frog-eye (**see Fact Sheet no. 304**); resistant varieties; check nursery plants free from disease; avoid overlapping crops, or plant far from crops with disease; avoid overhead irrigation; weed; remove volunteers; remove infected leaves; apply balanced NPK; collect and destroy debris after harvest; crop rotation.
- Chemical control: use mancozeb, copper or chlorothanil.

#### Common Name

Tobacco brown spot

#### Scientific Name

*Alternaria longipes*. Note, that some accounts give the name of brown spot on tobacco as *Alternaria alternata*.

AUTHORS Grahame Jackson & Eric McKenzie

<sup>1</sup>Dingley JM *et al.* (1981) Survey of agricultural pests and diseases. Technical Report. Volume 2. Records of fungi, bacteria, algae and angiosperms pathogenic on plants in Cook Islands, Fiji, Kiribati, Niue, Tonga, Tuvalu and Western Samoa. FAO, Rome, Italy; and Information from *Brown spot (Alternaria longipes)* Plantwise Knowledge Bank. (<http://www.plantwise.org/KnowledgeBank/Datasheet.aspx?dsid=4514>). Photo 1&2 R.J. Reynolds Tobacco Company Slide Set, R.J. Reynolds Tobacco Company, Bugwood.org.

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This mini fact sheet is a part of the app *Pacific Pests, Pathogens & Weeds*

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