



## Pacific Pests and Pathogens - Mini Fact Sheet Edition

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### Bean *Pythium* cottony leak (128)



Photo 1. *Pythium* sp. causing cottony leak disease on a bean pod. Note that the white cottony growth on the lower part of the pod is the mycelium of the water mould (it is not a fungus).



Photo 2. Cottony leak fungus, *Pythium* sp., developing on stored beans. The water mould develops in storage if the beans are not dried properly after harvest and/or they have been damaged.



Photo 3. *Pythium* sp. causing cottony leak disease on a cucumber fruit. Note that the white patch on the lower left of the fruit is the mycelium of the water mould (it is not a fungus).



Photo 4. Cottony leak, *Pythium* sp., on watermelon.

### Summary

- Worldwide distribution. On beans, capsicum, cucumber, tomato, and causes damping off (see **Fact Sheet no. 47**).
- Grey patches on leaves; fungal growth spreading to stems causing wilts; thick cottony growth rots pods in field and storage. Cucumber touching the soil rot.
- Usually a minor disease, except during long rains.
- Cultural control: allow air movement; avoid wounds; stake beans and cucumbers; improve drainage; use mulch; rotate with e.g., root crops; avoid harvesting in wet weather; for damping off (see fact sheet).
- Chemical control: treat seed with fungicides: captan, matalaxyl or thiram; damping-off (see FS above).

### Common Name

Cottony leak and stem rot

### Scientific Name

*Pythium* species, *Pythium deliense* and *Pythium aphanidermatum*.

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Information (and Photo 2) *Diseases of vegetable crops in Australia* (2010), Editors, Denis Persley, Tony Cooke, Susan House. CSIRO Publishing. Photos 1&3 Gerlach WWP (1988) *Plant diseases of Western Samoa*. Samoan German Crop Protection Project, Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ) GmbH, Germany. Photo 4 Jacquié (Wright) Kami, formerly Plant Pathologist, Secretariat of the Pacific Community, Siva, Fiji.

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The mobile application is available from the Google Play Store and Apple iTunes.

