

BACTERIAL LEAF STREAK

Causal Organism: *Xanthomonas oryzae* pv. *Oryzicola*

Growth Stages Affected: Affect the plant during early stages, from the maximum tillering to panicle initiation.

How do you identify it based on its symptoms?

- Water-soaked lesions
- Linear lesions
- Enlarged lesions
- Yellow droplets of Bacterial ooze

How to Confirm?

When the advancing part of the streaks are cut and placed in a glass/beaker with water, a mass of bacterial cells can usually be seen oozing out of the leaf, which makes the water turbid after five minutes.

Why is it important?

- Based on reported cases, yield loss caused by bacterial leaf streak can range from 8 – 17% in the wet season, and 1 – 3% in the dry season.





Department of Agriculture
BUREAU OF PLANT INDUSTRY
Crop Pest Management Division
692 San Andres Street, Malate, Manila, Philippines
Email Address: cpmd@buplant.da.gov.ph
Tel. No.: (02) 8525-7909, (02) 8525-2987



PREVENTION AND MANAGEMENT

- Plant resistant varieties.
- Remove weed hosts and plow under rice stubble, straw, rice ratoons, and volunteer seedlings, which may be infected by the bacteria.
- Use balanced amounts of plant nutrients, especially nitrogen.
- Ensure good drainage of fields (in conventionally flooded crops) and nurseries.
- Drain the field during the fallow period to kill the bacteria in the soil and in plant residues.
- In cases of severe infection, when yield may be affected, a copper – based fungicide applied at heading can be effective in controlling the disease.

References: Rethinam P and Singh SP. (n.d). Current status of the coconut beetle outbreaks in the Asia – Pacific region.

*Navasero, Mario & MT, Zipagan & NT, Saavedra. (2008). The Coconut Leaf Beetle, *Brontispa longissima* (Gestro) (Chrysomellidae, Coleoptera), a serious threat to the Philippine coconut industry. Proceedings. 39th PMCP Anniversary and Annual Scientific Conference. 16 -25.*

*CABI Digital Library. *Bronispa longissima* (coconut hispine beetle).*

*Comia-Yebron R & batalon JT. 2011. The battle against *Brontispa* continues.*

Pacific Pests, Pathogens & WEEDS.

Dr. K.V. Sankaran, APFISN Coordinator (sankaran@kfri.org), kerala Forest Research Institute, Peechi, Kerala, India on Behalf of the Asia – Pacific Forest Invasive Species Network.

*Hispine leaf beetle *Bronstispa* sp.*

