

# Pacific Pests, Pathogens and Weeds - Online edition

## Maize mosaic (074)

### Summary

- Worldwide distribution. In tropics and sub-tropics. On maize, sweet corn and itch grass (*Rottboellia*). A minor virus disease.
- Light green to yellow stripes along the leaves, singly or in bands, 1-2 cm wide. Plants stunted.
- Spread is by planthoppers, that live and breed in the 'funnel' of the leaves.
- Impact usually low with only 1-2 % plants affected.
- Cultural control: resistant varieties; removal of infected plants.
- Chemical control: infection is usually low so insecticides would be uneconomic.

### Common Name

Maize mosaic, corn mosaic

### Scientific Name

*Maize mosaic nucleorhabdovirus*; the abbreviation is MMV.

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Information from Maize mosaic virus (corn mosaic virus) (2019) Crop Protection Compendium. (<https://www.cabi.org/cpc/datasheet/32399>); and Tsai JH, Falk BW (undated) Insect vectors and their pathogens of maize in the tropics. CFANS. University of Minnesota. (<https://ipmworld.umn.edu/tsai-maize-tropics>); and from Kohler F, et al. (1997) *Diseases of cultivated crops in Pacific Island countries*. South Pacific Commission. Pirie Printers Pty Limited, Canberra, Australia. Photo 3 Richard Markham, ACIAR, Canberra.

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Photo 1. Stunted maize with deformed ears (right) infected with *Maize mosaic virus*. Note the thin yellow stripes.



Photo 2. Stunted maize with single yellow lines and broad yellow bands running parallel to the length of the leaves. Note the ears are not only deformed, but mostly lack seeds.



Photo 3. Maize mosaic is spread by the planthopper, *Peregrinus maidis*. The planthopper breeds in the 'throat' of maize, and that is the place to look for colonies; sometimes, ants will be present too.

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