



PESTrivia!

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WHITEFLY

ORDER:

Hemiptera

SCIENTIFIC NAMES:

Trialeurodes vaporariorum (greenhouse)

Dialeurodes citri (citrus)

Bemisia tabaci (sweetpotato)

DESTRUCTIVE STAGE:

Nymph and Adult

AFFECTED CROPS:

Cucurbits (squash, cucumber, bittergourd, melon),

Solanaceous (potatoes, tomatoes, eggplant, chili),

Legumes (peas, beans, peanut),

Brassicas (cabbage, mustard, pechay, other leafy vegetables)



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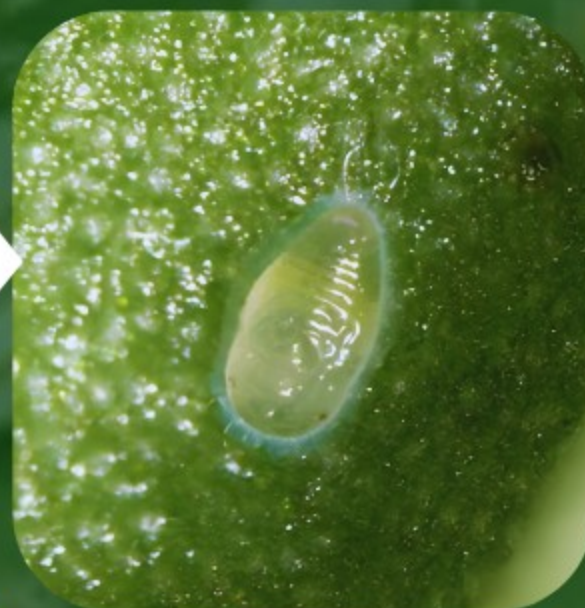


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EGG



NYMPH



**LIFE
CYCLE**



ADULT



PUPA



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DAMAGE:

- Leaf curling, yellowing, mosaics or yellow veining.
- Direct feeding cause premature leaf drop, reduces plant vigour and yields.
- Infested plants show silvering of leaves.
- Presence of sooty mold due to secretion of honeydew by the insect which hinders photosynthesis.
- Vector of viruses such as *Begomovirus*, *Ipomovirus*, *Crinivirus*.



PEST MANAGEMENT RECOMMENDATIONS

CULTURAL:

- Crop rotation
- Field sanitation
- Intercropping practices using non-host.
- Proper use and application of fertilizers. Avoid high amount of Nitrogen fertilizers that favors development of the pest.

BIOLOGICAL:

- Utilization of natural enemies such as parasitic wasp, predatory mites, predatory thrips, lacewing and ladybird beetle.

CHEMICAL:

- Use of biopesticides like chili solution and neem extracts.
- Use of FPA registered and recommended pesticides.



REFERENCES

Bureau of Plant Industry - Crop Pest Management Division (BPI-CPMD)

Handbook of the Insect Pests and their Control in Selected Crops of Philippines. 2004

Handbook on Arthropod Pests and Diseases of Cassava. 2016

<https://www.plantdoctor.eastwestseed.com/insect-pests/white-fly>

PHOTO SOURCE

Bureau of Plant Industry - Crop Pest Management Division (BPI-CPMD)

cabidigitallibrary.org

<https://agriculture.vic.gov.au/biosecurity/pest-insects-and-mites/priority-pest-insects-and-mites/silverleaf-white-fly>

<https://www.planetnatural.com/wp-content/uploads/2012/12/whitefly.jpg>



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