

Influence of Abiotic and Biotic Factors on Population Build Up of Leaf hoppers on Mango Crop

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ABSTRACT

Mango leafhoppers occur in all mango growing areas in India and are widespread through South-East Asia and Papua New Guinea. Damage (50% yield loss) caused by leafhoppers in mango is one of the major threats in production of mango. Herein, the taxonomic studies on the leafhopper fauna associated with mango orchards in Andhra Pradesh were performed in the department of Entomology, S.V. Agricultural College, Tirupati after collection of leafhoppers from different mango orchards of various places in Andhra Pradesh during 2006-08. The field experiments were conducted to study the influence of abiotic and biotic factors with population buildup of leafhoppers on mango crop. The leafhoppers and also the natural enemies were counted at 7 days interval. The relationship between the pest incidence, natural enemies and weather parameters was worked out through correlation and multiple linear regression analysis.

Key words : Abiotic factors , Bio-systematics, Biotic factors, Leafhoppers, Mango.