

Management of Pigeonpea Pod Borer Complex with Bio Rational Insecticides

G Sravana Bindu, C V Rama Rao, G Ramachandra Rao and V Srinivasa Rao
Department of Entomology, Agricultural College, Bapatla 522 101, Andhra Pradesh

ABSTRACT

The field experiments was under taken on “Management of pigeonpea pod borer complex with bio rational insecticides” during *Kharif* 2009 at Regional Agricultural Research Station, Lam, Guntur. Results indicated that among seven bio-rational insecticides evaluated for their efficacy against pod borer complex, treatments like *Bacillus thuringiensis* (Ber.) @ 2 ml/l (34.38%) and NSKE @ 5% (31.33%) were effective in suppressing the inflorescence damage. *Bt* @ 2ml/l and NSKE 5% were on par with each other with least pod damage by *M. vitrata* (7.09% and 7.48%), *H. armigera* (2.94% and 2.97%) and *M. obtusa* (5.43 % and 7.31%), respectively. The chemical check chlorpyrifos + dichlorvos @ 2.5 + 1ml/l recorded 42.96% inflorescence damage and 6.76, 2.09 and 4.25 per cent pod damage due to *M. vitrata*, *H. armigera* and *M. obtusa*, respectively and was significantly superior over other treatments. Higher yield was recorded in *Bt* @ 2 ml/l (999.87 Kg/ha) followed by NSKE 5% (955.53 Kg/ha) with 102.23 and 93.25 % increase over control. The highest yield was recorded by the chemical check chlorpyrifos + dichlorvos @ 2.5 + 1ml/l (1263.67 Kg/ha) with 155.58 % increase over control and significantly superior over other treatments

Key words : Biorational insecticides, *Helicoverpa armigera*, *Maruca vitrata*, *Melanagromyza obtusa*, Pigeonpea, Podborer complex.