Efficacy of some insecticides and biopesticides against pod borer, *Helicoverpa armigera* (Hubner) in long duration pigeonpea

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ABSTRACT : The field evaluation of some insecticides and biopesticides against *Helicoverpa armigera* in long duration pigeonpea was carried out during 2009-10 and 2010-11. The results revealed that there was a significant difference in per cent larval reduction in both the years. All the treatments were found significantly superior by giving higher mortality of *Helicoverpa* larvae to the control. The treatment of Spinosad 45% sc @ 75 g a.i./ha caused highest mortality (92.52-95.98%) of the pest followed by Endosulfan 35 EC 0.07% (83.26-88.20% mortality) and Acephate 75 SP @0.15% (83.50-86.25% mortality). The lowest larval reduction recorded in HaNPV @ 500 LE/ha with 50.77 to 54.78% mortality. The pod damage ranged from 8.33% in Spinosad 45% SC @ 75 g a. i./ha to 24.27% in HaNPV @ 500 LE/ha. The grain damage ranged from 3.67% in Spinosad 45% SC @ 75 g a. i./ha to 11.47% in NSKE-5%. The highest grain yield of 1550 kg/ha was recorded with Spinosad 45% SC @ 75 g a. i./ha to 11.47% in NSKE-5%. SP @0.15 % (1:16.45).

Key Words : Insecticides, biopesticides, Helicoverpa armigera, pigeonpea.