

## EFFICACY OF INSECTICIDE AGAINST INSECT PEST OF SOYBEAN, *GLYCINE MAX (L.) MERRIL*

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**Abstract:** Efficacy of Quinalphos 25 EC, Imidacloprid 17.8 SL, Trizophos 40 EC, Chlorpyrifos 20 EC, Alphamethrin 10 EC, Profenophos 50 EC and Dimethoate 30 EC was observed. The overall maximum reduction in girdle beetle infestation was noticed in Quinalphos 25 EC (82.15%) followed by Alphamethrin 10 EC (79.41%), and it was minimum in Chlorpyrifos 20 EC (75.88%). The blue beetle population reduction was noticed maximum in Trizophos 40 EC (87.81%) followed by Profenophos 50 EC (85.61%) and minimum in Alphamethrin 10 EC (81.41%). The maximum reduction in green semilooper population was recorded in Profenophos 50 EC (88.05%) followed by Imidacloprid 17.8 SL (87.98%), and minimum in Quinalphos 25 EC (84.57%). Tobacco caterpillar showed maximum population reduction in Imidacloprid 17.8 SL (90.24%) followed by Quinalphos 25 EC (89.42%), and it was minimum in Profenophos 50 EC (86.40%). The Highest grain yield (kg./ha.) was recorded in Imidacloprid 17.8 SL (1500) and it was minimum in Quinalphos 25 EC (850). The best cost benefit ratio was noted in Imidacloprid 17.8 SL (1:3.42) followed by Trizophos 40 EC (1:3.20), and lowest in Quinalphos 25 EC (1:1.94).

**Keywords:** Insecticide, Insect, Soybean, Control

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