## Effect of Aqueous Leaf Extracts on Natural Enemies in Rice Ecosystem

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## ABSTRACT

A field experiment was conducted and studied the effect of treatments *viz.*, Neem seed kernel extract (NSKE @ 5%, & 10%), Neem leaf extract (NLE @ 10%), Karanj leaf extract (KLE @ 10%), Custard apple leaf extract (CaLE @ 10%), Chilli pod extract (CPE @10 %), buprofezin 25 SC @ 1.6 ml  $^{1}$ , flubendiamide 20 WDG @ 0.25 g  $^{1-1}$  and untreated control on mirid bugs, spiders and coccinellids of rice ecosystem during *kharif*, 2019. Among the aqueous organic extracts, NSKE @ 5% found to be safer to mirid bugs and spiders while CaLE @ 10% found to be safer to coccinellids when compared to chemicals. The descending order of effect of treatments on mirid bugs was NSKE @ 5% (2.73) > KLE @ 10% (2.71) > CPE @ 10% (2.70) > NLE @ 10% (2.69) > NSKE @ 10% (2.67) > CaLE @ 10% (2.60) > buprofezin 25 SC @ 1.6 ml  $^{1-1}$  (1.91) > flubendiamide 20 WDG @ 0.25 g  $^{1-1}$  (1.67). The descending order of effect of treatments on Spiders was NSKE @ 5% (1.10) > NSKE @ 10% (0.93) > CaLE @ 10% (0.80) > NLE @ 10% (0.77) > CPE @ 10% (0.73) > KLE @ 10% (0.67) > flubendiamide 20 WDG @ 0.25 g  $^{1-1}$  (0.56) > buprofezin 25 SC @ 1.6 ml  $^{1-1}$  (0.52).

Keywords: Mirid bugs, spiders, coccinellids and aqueous leaf extracts