



Observations on natural enemies of insect pests in sorghum field

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Abstract : Field trials were laid out in the Agricultural Research Station, Navsari Agricultural University, Tanchha, Dist-Bharuch under rain fed condition during *Rabi* 2006-07, 2007-08 and *Kharif* 2007-08, 2008-09 to study the population of predators and correlation with host. In *Rabi* season green lacewing reached peak level in 1st SMW (January, 1-7), lady bird beetle reached peak level at 3rd SMW (January, 15-21) while spider reached peak level in 49th SMW (December, 3-9). In *Kharif* season the coccinellid and spider reached its maximum intensity 38th SMW (September, 17-23), chrysopid reached its peak at 45th SMW (November, 5-11). The correlation co-efficient study revealed that the chrysoperla predator had significant positively correlated with aphids and plant hopper. Predatory beetle had significant positively correlated with aphids while significant negative correlation with plant hopper population in *Rabi* and positively correlated in *Kharif*. The spider population had negatively correlated with aphids population. While it had significant positive correlation with plant hopper ($r=0.152$).

Key Words : Sorghum, Aphid, Plant hopper, Lady bird beetle, Green lacewing, Spider, Correlation co-efficient

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