

Influence of Abiotic Factors on the Incidence of Insect Pests of Groundnut with Special Reference to Groundnut Leaf Miner, *Proaerema modicella* Deventer in the Scarce Rainfall Zone of A P

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ABSTRACT

GLM incidence during *kharif*, 2011 in terms of percent damage showed significant negative correlation with Tmax (-0.50*) and Ssh (-0.618*) and significant positive correlation with rainy days (0.508*). However the no of webs showed significant negative correlation with Sun Shine Hours (-0.502*) and significant positive correlation with RH I (0.458*). The live pupae showed significant negative correlation with Tmax (-0.545*) and SSH(-0.553*) and significant positive correlation with RH-I(0.517*) during *kharif* 2011. The correlation studies with Pheromone trap catches of GLM, during 2011 and weather revealed significant positive correlation with RH-II(0.612*), and Rf(0.550*) and Rd(0.544*) and significant correlation Ssh (-0.653*). During *kharif* 2011 Thrips showed significant positive correlation with RH-I(0.516*) and significant negative correlation with Tmin (-0.50*). *Spodoptera litura* during *kharif* showed significant negative correlation with RH-I(-0.718*) and significant positive correlation with Evp(0.638*). Pheromone trap catches of *Spodoptera litura* during *rabi* 2011 showed a negative correlation with Tmin (-0.569*). *Kharif* 2011, *Helicoverpa armigera* also showed negative correlation with RH-I(-0.533*) and positive correlation with Evp(0.529*).

Key words : *Proaerema modicella*, Influence of weather, Seasonal incidence, *Spodoptera litura*, Sun Shine Hours, RH-I, RH-II, T max, T min, rainy days, rainfall