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RESEARCH ARTICLE: Evaluation of germplasm against major lepidopteron pest in sunflower

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Sunflower, Screening, germplasm lines and defoliators, Capitulum borer SUMMARY : In the Indian subcontinent the sunflower (Helianthus annuus L.) crop is fast expanding to different agroecological niches and cropping systems due to its wide adaptability. Among biological constraints in the sunflower production, pests dominate the scenario. A diverse assemblage of both beneficial and harmful insect species is associated with the sunflower ecosystem. Though more than fifty insect species have been reported on sunflower, cutworms (Agrotis spp.), sucking pests, leaf and plant hoppers (Amrasca biguttula biguttula Ishida, Empoasca spp.), thrips (Thrips palmi), whitefly (Bemisia tabaci Gennadius), defoliators (Spilosoma obliqua Walker, Spodoptera litura Fabricius, and Plusia orichalcea Fab.) and capitulum borer (Helicoverpa armigera Hubner) are major pests of economic concern. Therefore, the present experiment was undertaken to screen the available germplasm of sunflower for resistance to defoliators (Spilosoma obliqua Walker, Spodoptera litura Fabricius, and *Plusia orichalcea* Fab.), and capitulum borer (*Helicoverpa armigera* Hubner), which may be further used for conversion in to resistant hybrids, in Augmented Block design consisiting of 4.5 m row of each germplasm with infester row of susceptible check (morden). Among entries screened, the population of defoliators (Spodoptera, Trichoplusia and Spilosoma) was moderate ranged between 0.53(GMU-973)- 1.48/plant (GMU-902) and Helicoverpa 0.1 to 1.20 /head. The entries GMU-942 and 948 has minimum incidence *i.e.* 0.1 larva/head of sunflower.

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