
Rehab Elkamel Fadwol¹, Faiza Elgaili Elhassan Salah², Mohamed Hamza Z. Elabdeen³, Elamin Mohmed Elamin⁴

¹U. of Gezira, Faculty of Agricultural, Sudan, ²U. of Gezira, Faculty of Agricultural, Sudan, ³U. of Gezira, Faculty of Agricultural, Sudan, ⁴U. of Gezira, Faculty of Agricultural, Sudan

Faiza E. E. Salah¹, Elamin M. Elamin2, Elameen M. A. Eltoum1, Hayder Abdelgader2 and Dominique Bordat3 1 Dept. of Crop Protection, Faculty of Agricultural Sciences, University of Gezira, Wad Medani, Sudan. P.O. Box 20 2 Agricultural Research Corporation, Wad Medani, Sudan. 3 CIRAD, Montpellier, France. Email: Faizaruba@yahoo

Abstract: The Hymenopterous parasitoids, *Hemiptarsemus varicornis* (Girault) and *Opius dissitus* (Muesebeck) are associated with the leaf miner, *Liriomyza* spp., populations in Central Sudan. The effects of *Liriomyza trifolii* (Burgess) and *Liriomyza sativae* (Blanchard) reared on common bean, *Phaseolus vulgaris*, on the development and efficiency of their two parasitoids were studied at constant conditions of temperature, relative humidity and photoperiod. No significant differences were found between parasitism percentage of *H. varicornis* or *O. dissitus* on *L. trifolii* or *L. sativae*. However, significant differences were found with respect to adult (male and female) life span as well as the number of adult parasitoids emerged of *H. varicornis* and *O. dissitus*. The life span of *H. varicornis* was shorter than that of *O. dissitus*, but more adults of the later emerged from the pupae than those of *H. varicornis* which might have accounted for their almost equal parasitism percentages. Also, no significant differences were recorded with regard to the development of *H. varicornis* on *L. sativae* reared on four of its host plants. However, parasitism percentage was significantly higher on gourd (*Cucurbita moschata*) followed by zucchini (*cucurbita pepo*), haricot bean (*Phaseolus vulgaris*) and tomato (*Lycopersicon esulentium*), respectively.

**Keywords:** Aqueous extracts, okra, leaf miner, Sudan

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