

### عنوان مقاله:

Biological parameters of Trialeurodes vaporariorum (Hemiptera: Aleyrodidae) exposed to lethal and sublethal ®concentrations of Calypso

## محل انتشار:

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#### خلاصه مقاله:

Efficacy of the neonicotinoid insecticide, Calypso® was studied on eggs, nymphs and adults of Trialeurodes vaporariorum Westwood, using a leaf disc bioassay method. Concentrations from o.16 to o.A ml/l were applied by systemic-contact method. Nymphs were more susceptible than eggs and adults, and LCao and LCao values were estimated to be o.FFA and o.YFW ml/l, respectively. Also, the longevity and fecundity of exposed females was reduced compared to control. Moreover, the demographic parameters were adversely influenced compared to control. The intrinsic rate of increase (rm) was significantly decreased to o.144 and o.149 day-1 at LCao and LC40 level, compared to control (o.1ar day-1). Other life table parameters (Ro, A, T, and DT) were also significantly lower in the treated insects. Sublethal concentrations of Calypso® may reduce the insecticide residuals on greenhouse crops and reduce the resistance development in greenhouse whiteflies. Therefore, these concentrations may be applicable in the .management of T. vaporariorum after complementary studies

کلمات کلیدی: Life table parameters, whitefly, Calypso®, sublethal concentrations

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