

Comparison of Confidor and Palizin in control of greenhouse whitefly adults in Gerbera commercial greenhouses in Pakdasht

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ABSTRACT

Gerbera is attacked by a large number of pests, one of the most important of which is greenhouse whitefly (*Trialeurodes vaporariorum* Westwood). Currently, it is controlled by chemical and large amounts of money are used to import insecticides to control this pest annually. In current research, the effect of Palizin and Imidacloprid in *T. vaporariorum* control in commercial gerbera greenhouses was compared. The experiment was performed in a commercial greenhouse in Pakdasht, Tehran. The same size and none flower gerbera pots were selected for further analysis. Before and after the experiment, the number of nymphs and adults were estimated. Selected factors were included: the pesticide in two levels, pesticide dose in three levels (0.5, 1 and 1.5), application time in three levels (hours 8, 12 and 16) and replications in a month in three levels (2, 4 and 6). Data was analyzed using Design Expert 10 software with RSM (Response Surface Method) method. Based on the result, the mortality percentage of whitefly adults during the use of Confidor is significantly higher than Palizin. Also the only significant factor was the pesticide type, and other factors will not make any significant changes in the response.

Key words: Palizin, Gerbera, *Trialeurodes vaporariorum*, chemical control, Confidor

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