

G. Eggplant:**Spider mite: *Tetranychus urticae* Koch****Dr. Gamal Abdel Mageed**

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Procedure: An experiment was conducted on eggplant against the motile stages of *Tetranychus urticae* Koch. (which is considered the most serious mite species attacking eggplant in Egypt). A complete randomized block design with four replicates was used. Plot size was 7 X 12m.

Two concentrations, 1000 cc (1 %) and 2000 cc (2 %) per 100 liter of water, from the product, GC-Mite 20 % E.C were tested in experimental plots. Sample size was 40 leaves from each treatment (10 leaves per replicate).

Weekly samples were collected randomly after spraying. A pre-count was taken just before spraying at each replicate. Two square inches per eggplant leaf were examined at the lower surface and number of alive mites were counted and recorded.

RESULTS and DISCUSSION

Data in table (7) and fig. (4) revealed that the natural product GC-Mite 20 %, when used against the motile stages of *T. urticae* infesting eggplant, at concentrations 1 and 2 %, gave 83.3 and 91.28 % reduction in the population density of the mite, respectively.

Table (7): Evaluation of different concentrations of GC-Mite 20% on the motile stages of the spider mite, *Tetranychus urticae* Koch. Infesting eggplant in Egypt

Treatment	Rate of application	Pre-count per 80 inches	No. of motile stages / 80 square inches and % reduction after treatments								Average of Reduction %
			One week		Two weeks		Three weeks		Four weeks		
			No.	%	No.	%	No.	%	No.	%	
T1	1 %	702	112	85.97	144	84.22	184	83.12	223	79.91	83.30
T2	2 %	734	56	93.29	82	91.40	108	90.52	117	89.91	91.28
Control	-	640	728	-	832	-	994	-	1012	-	

Obtained results showed that the natural acaricide GC-Mite 20 % exceeded the threshold promotion level (70 %) in case of the spider mite, *T. urticae* on eggplant, at the two concentrations 1 and 2 %. Also, it gave 100 % reduction in the mite population when it was sprayed twice.

Therefore, it could be concluded that GC-Mite 20 % could be recommended to be used against *T. urticae* on eggplant, at 1 % concentration in Egypt and could be sprayed only once at the proper time.

Generally, the product has shown promising results on the key mite species on both fruit trees and vegetables without any phytotoxicity on the plants or adverse effects on the crops.