

ABSTRACT

Salwa Mahmoud El-Saeid Sholla. Studies on Some Predacious and Parasitic Soil Mites Belonging to Suborder Actinedida. Unpublished Doctor of Philosophy of Science Degree, Department of Plant Protection, Faculty of Agriculture, Ain-Shams University 2007.

The predacious and parasitic actinedid mites were collected from soil under citrus, fig, mango, guava trees, spinach, cotton, corn, wheat and clover at Giza, Sharkyia, Fayoum and Qualiobyia Governorates during the season 2001-2002. Twenty six actinedid mite species belonging to ten families were collected. Of these families, eight are considered to be predacious; namely Cunaxidae (6 spp.), Stigmaeidae (3 spp.), Bdellidae (2 spp.), Cheyletidae (3 spp.), Raphignathidae (one spp.), Neophylobidae (two spp.), Eupalopsellidae (2 spp.) and Caligonellidae (3 spp.). The other two families are considered to be parasitic which are Trombididae (2 spp.), Pyemotidae (2 spp.).

Distribution of the considered in of the detected further studies actinedid mites from Giza Governorate.

The biology of *Neocunaxoides anderi* which predators the most common predacious actinedid mite was studied on the laboratory when fed on plant parasitic nematode, greasy black cut worm and potato tuber moth, under two temperatures and humidity.

Also, the parasitic mite *Pyemotes herfsi* was used to control the greasy black cut worm and pink bollworm in the laboratory.

The following biological aspects were recorded: incubation period of eggs, duration of larval, protonymphal, deutonymphal and tritonymphal stages. Longevity of both male and female was also recorded. The total number of eggs deposited per female per day was calculated. Sex ratio was also recorded. The cunaxid mite *N. anderi*

was applied in greenhouse to control the plant parasitic nematode
Meloidogyne javanica

Keywords: Predacious mites - Parasitic mite - soil mite – Cunaxidae

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Stigmaeidae – Bdellidae – Cheyletidae –

Raphignathidae -

Neophulobidae-Eupalopsillidae – Caligonellidae –

Trombididae

– Pyemotidae - *Meloidogyne javanica* - *Neocunaxoides*

anderi -

Pyemotes herfsi

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