

Tanta University
Faculty Of Agriculture
Plant Protection Department



Studies On Some Mites Associated With Stored Products In El- Gharbiya Governorate

By

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Thesis

*Submitted In partial Fulfillment Of the Requirements For The Degree
Of Doctor On Philosophy in Agricultural Sciences*

In

Agricultural Zoology - Acarology

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جامعة طنطا
كلية الزراعة
قسم وقاية النبات



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Abstract:

The stored products are liable to be attacked not only by insects, fungi, but also by mites. These mites may be parasites, predators, fungivorous and/or sarcophagus, other species of mites and insects are feeders on stored products. A general survey of different stored products mites (predacious and non-predacious) on different districts of El-Gharbia Governorate was undertaken with 6 stored product materials covering different regions of El-Gharbia Governorate during the period beginning in August 2010 until July 2012. The study revealed the occurrence of 35 mite species belonging to 27 genera and 18 families under four suborders. In this study the suborder Astigmata included 4 different families i.e. Acaridae (4 species), Chortoglyphidae (one species), Glycyphagidae (2 species) and Pyroglyphidae (one species). The suborder Prostigmata included in the current study 8 different families namely, Pyemotidae (one species), Cheyletidae (3 species), Eupodidae (one species), Cunaxidae (2 species), Tarsonmeidae (2 species), Tydeidae (4 species), Caligonellidae (one species) and Rhagididae (one species). The suborder Mesostigmata in this study included 5 different families i.e. Ascidae (6 species), Pachylaelapidae, Uropodidae, Parasitidae and Laelapidae (one species for each). On the other hand, two collected cryptostigmatid mites only were found. The population dynamics of the different mites associated with different products (Roomy cheese, buckwheat, wheat straw, wheat bran, corn flour and biscuit) during (2010/2011) and 2011/2012 was also determined. The study also determined the different biological aspects (Incubation period, Life cycle, longevity, fecundity of female) of both the astigmatid mite, *Tyrophagus putrescentiae* (Schrank) and the cheyletid mite, *Cheyletus malaccensis*.

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