شبكة المعلومات الجامعية

بسم الله الرحمن الرحيم

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التوثيق الالكتروني والميكروفيلم

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جامعة عين شمس

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قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
علي هذه الأفلام قد أعدت دون أية تغيرات

يجب أن

تحفظ هذه الأفلام بعيدا عن الغبار

في درجة حرارة من ١٥-٢٥ مئوية ورطوبة نسبية من ٢٠-٤٠%

To be Kept away from Dust in Dry Cool place of 15-25- c and relative humidity 20-40%

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بالرسالة صفحات لم ترد بالاصل

STUDIES ON SOME MITES WITH SPECIAL REFERENCE TO MITES OF SUBORDER ACTINEDIDA

B4983

By

Mahy Mahmoud Abdel Mottaleb
B.Sc. (Entromology) Fac. of Agric.,
Ain Shams University, 1978

M. Sc. (Agric. Zoology) Fac. of Agric. At Moshtohor
Zagazig University, Benha Branch 1990

A thesis submitted in partial fulfillment
of
The requirement for the degree of
DOCTOR OF PHILOSOPHY
In
Agriculture
(Agricultural Zoology)

Department of Plant Protection
Faculty of Agriculture
Ain Shams University
1998

APPROVAL SHEET

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ABSTRACT

Mahy Mahmoud Abdel Mottaleb. Studies on some mites with special reference to mites of Sub order Actinedida. Unpublished Doctor of Philosophy Degree, Department of plant protection, Faculty of Agriculture, Ain Shams University, 1998.

In Egypt, many Agricultural substances are imported from several countries. Samples of these materials were examined and found that they harbored many mite species belonged to Bdellidae, Cheyletidae, Cunaxidae, Eupodidae, Pygmephoridae, Smarididae, Stigmaeidae, Tarsonemidae, Tetranychidae and Trombiculidae: (Suborder Actinedida, Order Acariformes); Ascidae, Amerosseiidae, Dermanyssidae, Laelapidae, Liroaspidae, Macrochelidae, Ologamasidae, Parasitidae, Phytseiidae, Rhodacaridae and Uropoididae (Suborder Gamasida Order Parasitiformes) Acaridae, Anoetidae; (Suborder Acaridida; Order Acariformes); Oribatulidae (Suborder Oribatida Order Acariformes).

The present study was carried out on the predator *Agistermus exsertus,* the most common mite species inhabiting the imported materials, to throw light on further biological aspects and its economic importance.

1. The predator, *A. exsertus*, consumed white fly eggs, nymphs of white fly, and eggs of tetranychid mites.
2. All predator stages could tolerate a maximum temperature of 50°C and minimum temperature of - 8°C.
3. Starvation period was calculated for the immature and adult stages.
4. In the laboratory it was noticed that the age of female and male had no effect on the sex ratio which was 1: 1.3 (male: female).
5. The population dyanimcs of the predator on lantana hedges, surrounding a vegetable farm, at three levels (top, middle

and bottom) was estimated during one season.

6. Mass rearing of the predator was successfully obtained when it was reared in a Petri-dish supplied daily with fresh corn, castor bean and date palm pollen grains.

Key words: *Agistemus exsertus*, imported parcels, *Tetranychus arabicus*, *Lantana camara*. Biological aspects. Mites. Taxonomy. Mass rearing. Population dinamics.

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