



شبكة المعلومات الجامعية

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ





شبكة المعلومات الجامعية



شبكة المعلومات الجامعية

التوثيق الالكتروني والميكرو فيلم

جامعة عين شمس

التوثيق الالكتروني والميكرو فيلم

قسم

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



يجب أن

تحفظ هذه الأفلام بعيداً عن الغبار

في درجة حرارة من 15 – 20 مئوية ورطوبة نسبية من 20-40 %

To be kept away from dust in dry cool place of
15 – 25c and relative humidity 20-40 %



شبكة المعلومات الجامعية



بعض الوثائق الأصلية تالفة



شبكة المعلومات الجامعية



بالرسالة صفحات
لم ترد بالأصل

INTEGRATED MITE MANAGEMENT

By

Rabab Abd El-kawy Mohamed Amin Hammad

B.Sc. High Institute of Agricultural Cooperation, 2000 (Cairo)

Thesis

**Submitted in Partial Fulfillment of the Requirements for
the Degree of Master of Science**

In

Pesticides

Department of pesticides

Faculty of Agriculture, Kafr El-Sheikh

Tanta University

2005

BVAP.

INTEGRATED MITE MANAGEMENT

Presented by

Rabab Abd El-Kawy Mohamed Amin Hammad

For the Degree of

M.Sc. In Pesticides

Examiners Committee :

1- Prof. Dr . Abd El- Aziz Hassan Hosny

Prof. of Pesticides Chemistry

Fac. of Agric, Kafr El-Sheikh ,

Tanta University

A.H. Hosny

2- Prof . Dr . Ahmed El-Sayed Salama

Prof. of Pesticides Chemistry

Fac. of Agric, Kafr El-Sheikh ,

Tanta University

A. Salama

3- Prof. Dr . Abd Allah Mahmoud El-Shazly

Prof. of Pesticides Chemistry

Fac. of Agric, Alexandria,

Alexandria University

A. El-Shazly

4- Prof . Dr . Attiah Youssef Keratum

Prof. of Pesticides Chemistry

Fac. of Agric, Kafr El-Sheikh ,

Tanta University

A.Y. Keratum

Date: 19/12/2005

SUPERVISOR COMMITTEE

Prof . Dr . Abd EL-Aziz H. Hosny

Prof . Of Pesticides Chemistry
Fac . Of Agric ., Kafr El-Sheikh
Tanta University

Prof . Dr. Fekry Ahmed Adam

Prof . Of Pesticides Chemistry and Chairman of
Pesticides Department,
Fac . Of Agric., Kafr El-Sheikh
Tanta University

Prof.Dr. Attiah Youssef Keratum

Prof . Of Pesticides Chemistry
Fac . Of Agric., Kafr El-Sheikh
Tanta University

ACKNOWLEDGEMENT

*I strongly owe my thanks to Allah for every thing .
Sincere thanks and deepest gratitude are due to Prof . Dr. Abd EL-
Aziz Hassan Hosny, professor of pesticides chemistry, Faculty of
Agriculture, Kafr EL- Sheikh, Tanta University for suggesting the
problem, supervision, guidance, encouragement, revising the manuscript
and his great help during all steps of this work.*

*Many thanks are also due to Prof . Dr. Fekry Ahmed Adam
Prof . of pesticides chemistry and chairman of pesticides Department,
Faculty of Agriculture, Kafr EL- Sheikh, Tanta University for his
encouragement, supervision and kind help.*

*The author is also indebted to Prof. Dr. Attiah Youssef Keratum,
Prof. Of pesticides chemistry, Faculty of Agriculture, Kafr EL- Sheikh,
Tanta University for his keen supervision, encouragement, useful
guidance, fruitful advices, his great help during writing and revising
the manuscript .*

*Thanks are also due to Dr . Ahmed A. Ismail Lecturer of pesticides
chemistry, Faculty of Agriculture, Kafr EL- Sheikh, Tanta University
for his kind help during this study .*

*The author wishes to offer his deepest gratitude to all staff members
of pesticides Department, Kafr EL-Sheikh, Faculty of Agriculture,
Tanta University .*

*Great appreciation and deep thanks to my father and my mother and
my two brothers and my sister for their help during this study .*

INTEGRATED MITE MANAGEMENT

ABSTRACT

In preparation of the integrated mite management program, Laboratory experiments were carried out to evaluate the toxic effect of five compounds (three acaricides; Abamectin, Fenpyroximate and Etoxazole; one pyrethroid; Cypermethrin and one mineral oil Supermasrona) against the egg and adult females of the two spotted spider mite *Tetranychus urticae* (Koch) and adult females of predatory mite *Amblyseius gossipi* (El-Badry) on three different host plants (castor bean, green beans and tomato) using leaf-disc dip technique. The side effect of mentioned compounds on some biological aspects of two species of mites were also evaluated.

Abamectin has a special position in integrated mite management mite control programs. Cypermethrin was the most effective compound tested on egg deposition of on *T. urticae* castor bean, while on the other two hosts occupies the next position after Fenpyroximate. Also, Cypermethrin was highly toxic compound that caused the highest decrease in egg hatchability especially on castor bean and green beans, but on tomato it occupies the next position after Fenpyroximate.

According to the nature of the chemical the prey egg consumption by the predator changed depending on time elapsed between egg contamination by chemical and egg introduction to the predator, also consequently the predator egg production.

