

شبكة المعلومات الجامعية







شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



شبكة المعلومات الجامعية

# جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

## قسم

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



يجب أن

تحفظ هذه الأفلام بعيدا عن الغبار في درجة حرارة من ١٥-٥٠ مئوية ورطوبة نسبية من ٢٠-٠٠% To be Kept away from Dust in Dry Cool place of 15-25- c and relative humidity 20-40%



# بعض الوثائـــق الإصليــة تالفــة



# بالرسالة صفحات لم ترد بالإصل

B74.9



#### POPULATION DYNAMICS OF HOUSEFLY SPECIES AFFECTED BY DIFFERENT ENVIRONMENTS AROUND GREAT CAIRO

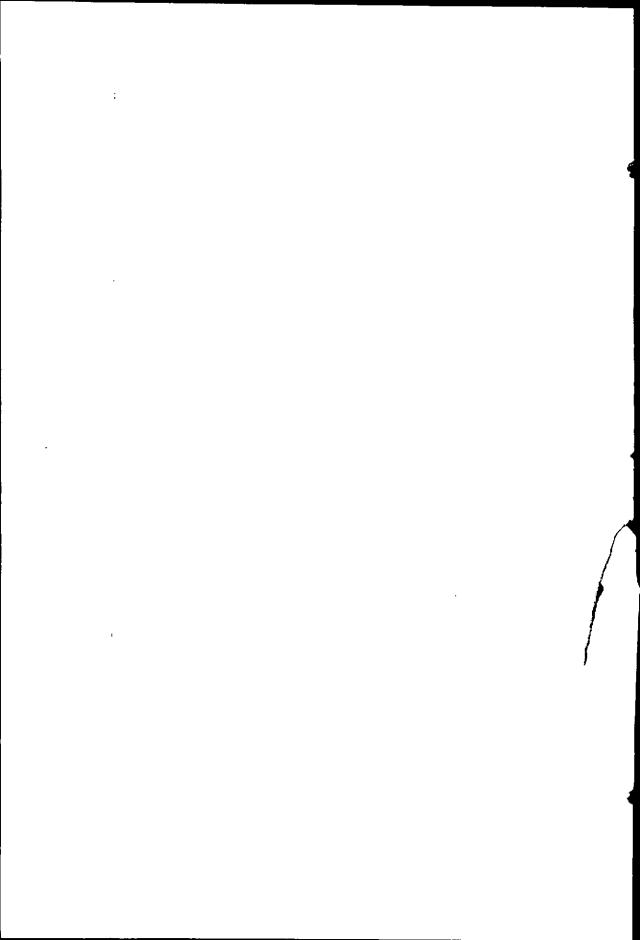
## By AHMED ALI AHMED KHALLAF

B.Sc. in Agricultural Coordination Science, High Institute for Agricultural Coordination, 1987

# Thesis Submitted in Partial Fulfilment For the Degree of MASTER OF SCIENCE

In
Environmental Sciences,
Department of Biological and Natural Sciences

Institute of Environmental Studies and Researches
Ain Shams University



Institute of Environmental Studies and Researches Ain Shams University

# POPULATION DYNAMICS OF HOUSEFLY SPECIES AFFECTED BY DIFFERENT ENVIRONMENTS AROUND GREAT CAIRO

#### By Ahmed all ahmed khallar

This thesis for M.Sc. degree in Environmental Science has been approved by:

Prof.Dr. Ahmed Hassan El-Kaschef
Emeritus Professor, Faculty of science, Ain Shams University.

A. March of

Prof.Dr. Samiha Said Mosalalm And Mosalalm Research Professor, Institute of Medical Entomology. The General Organization for Teaching Hospitals and Institutes.

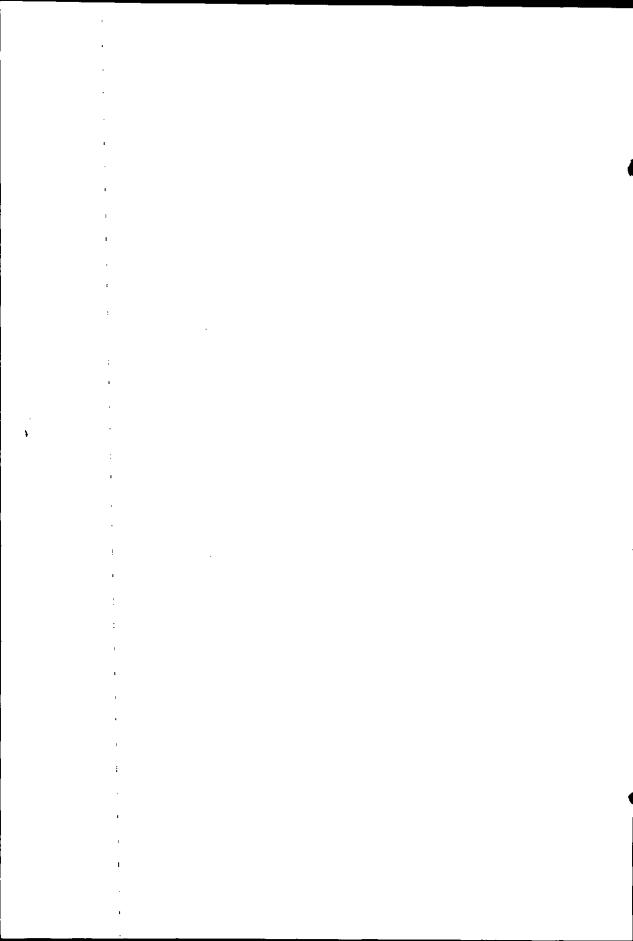
Prof.Dr. Sami Mahmoud Ali El-Sayes
Professor, Biological and Natural Sciences, Institute of
Environmental Studies and Researches, Ain Shams University

Prof. Dr. Mahmoud Ezz El-Din Ahmed Tharwat M. E. Tharwat
Prof. of Ecology and Vertebrate Pest Management, Plant
Protection Department, Faculty of Agriculture, Ain Shams
University

Committee in Charge

Date of examination / /1997

A. Waschef



Institute of Environmental Studies and Researches Ain Shams University

#### POPULATION DYNAMICS OF HOUSEFLY SPECIES AFFECTED BY DIFFERENT ENVIRONMENTS AROUND GREAT CAIRO

A Thesis Submitted 10
Institute of Environmental Studies and Researches
Ain Shams University
For M.Sc. Degree

ln

#### **ENVIRONMENTAL SCIENCES**

Department of Biological and Naturalal Sciences

By

AHMED ALI AHMED KHALLAF Medical Entomology Research Institute, Ministry of Health, Dokki, Cairo.

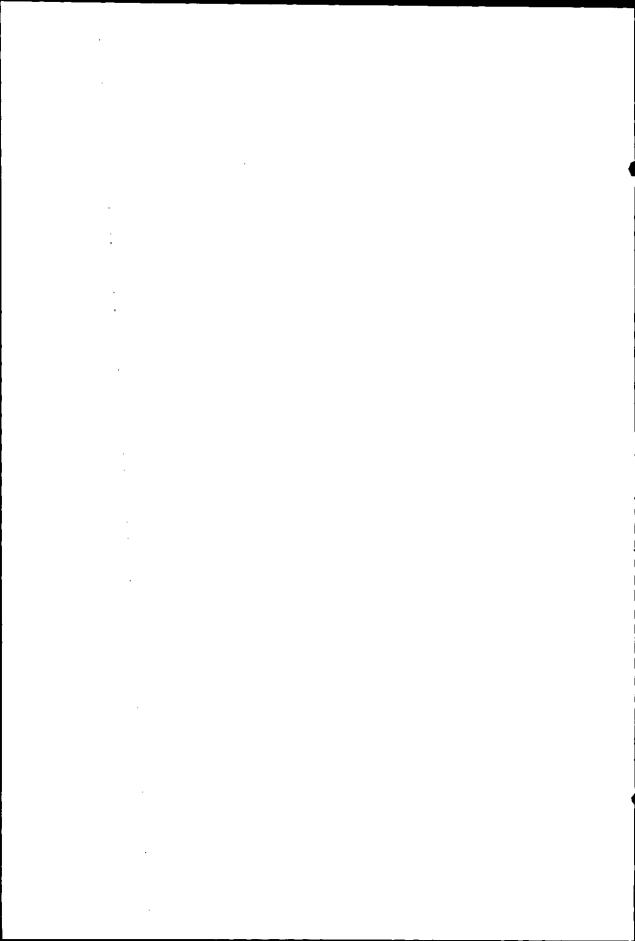
Supervised by

Prof.Dr. Sami M.A. El-Sayes
Prof., Biological and Natural
Sciences, Institute of
Environmental Studies and
Research, Ain Shams Univ

Prof.Dr. Mahmoud E.A. Tharwat
Professor of Ecology & Vertebrate
Pest Management, Plant Protection
Department, Faculty of Agriculture,
Ain Shams University

Dr. Azza Abdel-Fattah Mostafa

Assoc. Professor of Insecticides Head of Insecticides Dept. Reserach Institute of Medical Entomology Ministry of Health



#### **ACKNOWLEDGEMENT**

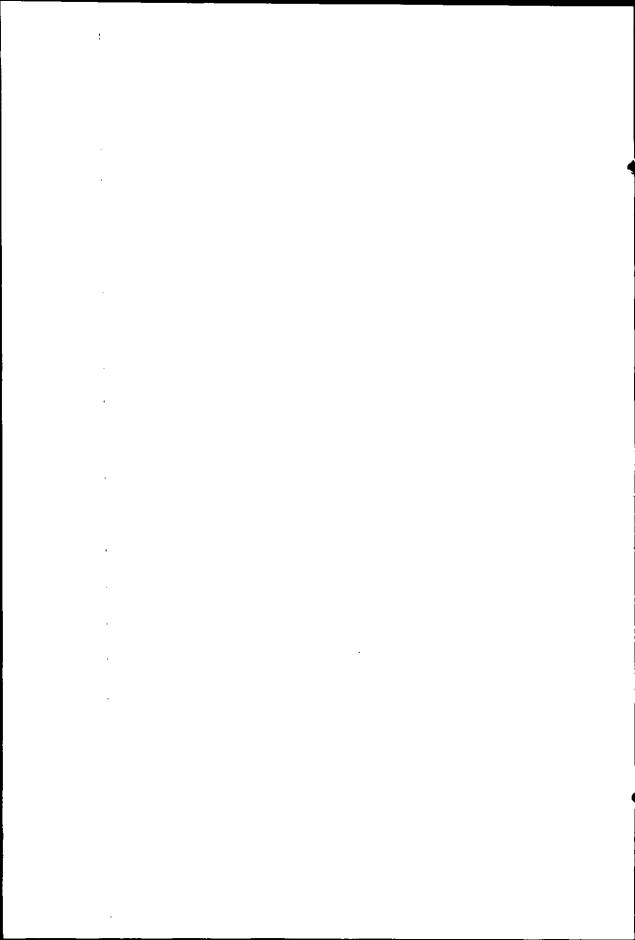
#### Firstly and ultimately thanks to GOD

I wish to express my deep thanks to Prof.Dr. Samy Mohamed Ali El-Sayes, Prof. of Department of Biological and Natural Science. Institute of Environmental Studies and Researches. Ain Shams University for his supervising of this work, guidance, advice and revising the manuscript.

I am thankful to **Prof.Dr. Mahmoud Ezz El-Din Ahmed**Tharwat, Prof. of Ecology and Vertebrate Pest Management, Plant
Protection Department. Faculty of Agriculture, Ain Shams University for
his helpful supervision, guidance, advice and wrapping up of the work,
advice and revising the manuscript.

My deep thanks to **Dr. Azza Abdel-Fattah Mostafa**, Associate Professor and Head of Insecticides Department, Research Institute of Medical Entomology, Ministry of Health, for her supervising this work. guidance, identification of Diptera samples and revising the manuscript

May thanks are also extended to director and all staff members of Research Institute of Medical Entomology, Ministry of Health and Biological and Natural Sciences Department, Institute of Environmental Studies and Research, Ain Shams University for their cooperation and help which was necessary to accomplish this work.



#### Ahmed Ali Ahmed Khallaf

### Population dynamics of housefly species affected by different environments around Great Cairo

Unpublished M.Sc. Thesis in Biological and Natural Sciences, Institute of Environmental Studies and Researches, 1997.

#### ABSTRACT

Ten different species of flies were identified during this study. Those species belong to nine different genera, namely, Musca, Chrysomya, Sarcophaga, Lucilia, Hydrotaea, Fannia, Stomoxys, Muscina and Drosophila.

It was obvious that 6th of October City had the highest density of flies, while 15th of May City had the lowest number, followed by 10th of Ramadan and Sadat Cities. The highest number of *Musca domestica vicina* was recorded in 6th of October City, while the lowest was in 15th of May City, followed by 10th of Ramadan and Sadat Cities. For *Musca sorbens*, the highest number was in 10th of Ramadan City followed by 15th of May, 6th of October and Sadat Cities, respectively. The results indicated that a significant difference was discovered depending on the studied locality.

Adult housefly was more susceptible to deltamethrin in all cities, whereas susceptibility was shown to fenthion and bioresmethrin in 6th of October and Sadat cities. Houseflies showed resistance to malathion, fenthion and bioresmethrin in the two cities of 15th of May and 10th of Ramadan. The adult houseflies from all the cities investigated showed resistance to malathion insecticide.

**KEY WORDS**: Houseflies, *Musca domestica*, Diptera, Insecticides. Classification. Morphology

