



شبكة المعلومات الجامعية

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



شبكة المعلومات الجامعية  
@ ASUNET



# شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم





شبكة المعلومات الجامعية

# جامعة عين شمس

التوثيق الالكتروني والميكرو فيلم

## 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%

# بعض الوثائق الأصلية تالفة

# بالرسالة صفحات لم ترد بالاصل



# **PHYSIOLOGICAL AND CHEMICAL STUDIES ON SOME FRUIT TREES GROWN AROUND DESERT HIGH WAYS**

**By Shadia Abd El-Azeem Abd El-Hady**

B.Sc. Agric. (Horticulture). Ain Shams University, 1980  
Diploma in Environmental Sciences, Department of Agriculture  
Sciences, Institute of Environmental Studies & Research,  
Ain Shams University, 1991

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**A Thesis Submitted in Partial Fulfillment  
of  
The Requirement for the Master Degree  
in  
Environmental Sciences**

**Department of Agricultural Sciences  
Institute of Environmental Studies & Research  
Ain Shams University**

**2000**



# APPROVAL SHEET




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This Thesis for Master Degree in Environmental Science  
has been approved by :

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**Under The Supervision of :**

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## *ABSTRACT*

This work has been done to investigate the effect of roads pollution (motor vehicles exhausted gases which contain high levels of lead and other toxic heavy metals) on the adjacent environment and fruit product safety. Three orchards adjacent to Cairo-Alex desert road which containing 5 fruit crops of different botanical taxonomy were chosen to conduct such research. The impact of pollution on soil, tree's leaves and fruits of 160 randomly selected trees were thoroughly studied. The obtained results showed that the road adjacent orchard trees and soil are deeply suffered from pollution than those at larger distances from the road.

Results of the study revealed that morphological changes of the trees, chemical properties of leaves and fruits as well as heavy metals content are affected by exposure to the precipitated dust, and correlated with the distance from the road.

The study also recommended that the cultivation of the farms adjacent to vehicles roads should be at a distance not less than 100 m. from the beginning of cultivated such roads.



