



شبكة المعلومات الجامعية

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ





شبكة المعلومات الجامعية



شبكة المعلومات الجامعية

التوثيق الالكتروني والميكرو فيلم

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

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

**FERTILITY STATUS OF SOME
SOILS**

IN SOUTH SINAI

BY

Mohamed Abdel-Warth Mahmoud

A thesis submitted in partial fulfillment
of

the requirements for the degree of

Doctor of Philosophy

In

Soil science

(Soils Department)

Faculty of Agriculture, Moshtohor
Zagazig University, Benha Branch

2002

B U N A

10.

11.

12.

13.

14.

FERTILITY STATUS OF SOME SOILS

IN SOUTH SINAI

BY

Mohamed Abdel-Warth Mahmoud

B.Sc. (Soils), Cairo University, 1981

M.Sc. (Soils), Zagazig University 1997

Under the supervision of:

Prof. Dr. Sayed Abd El-Kader Ibrahim

Professor of Soil Sci. and head of
Soils Department, Moshtohor .

Prof. Dr. Ahmed Fahim Amer

Professor of Soil Sci., Soils, Water and
Environment Res. st.Agric.Res.Center.

Dr. Ali Mohamed Abd El-Haleem.

Associate Professor of Soil Sci. Moshtohor.

FERTILITY STATUS OF SOME SOILS IN SOUTH SINAI

BY

Mohamed Abdel-Warth Mahmoud

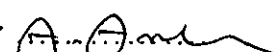
B.Sc. (Soils), Cairo University, 1981

M.Sc. (Soils), Zagazig University 1997

**This thesis for Ph.D degree has been
approved by:**

Prof. Dr. Mohamed Hamada Shalaby 

Professor of Soil Science, Fac. of Agric.
Menofiya Univ.

Prof. Dr. Ahmed Fahim Amer 


Professor of Soil Sci., Soils, Water
and Environment Res. Inst., Agric. Res. Center.

Dr. Ali Mohamed Ahmed Abd El- Haleem 

Associate Professor of Soil Science,
Moshtohor.

Prof. Dr. Raafat Srour Abdel-Aal 

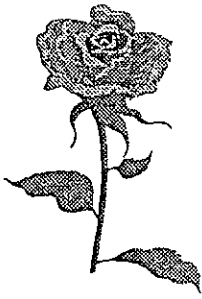
Professor of Soil Science, Moshtohor.

Prof. Dr. Sayed Abd El-Kader Ibrahim 

Professor of Soil Science and head of
Soils Department, Moshtohor.

Date of Examination: 23 / 3 / 2002

1. 1. 1. 1.



إلى

روح أبي ..

أمي ..

زوجتي ..

أبنائي ..

تقديرا و عرفانا بالجميل ...

ACKNOWLEDGMENT

The author expresses his deepest gratitude, sincere and appreciation to God, after that to the members of supervision, Prof. Dr. Sayed Abd El-Kader Ibrahim, Professor of Soil Science. Faculty of Agriculture, Moshtohor, Zagazig University and Prof Dr. Ahmed Fahim Amer Professor of Soil Science, Soil, Water and Environment Research Institute, Agriculture Research Center, for their supervision kind help, valuable advice and encouragement through the course of this study and during the preparation of the manuscript.

The author wishes to express ^{his} appreciation and gratitude to A. Prof. Dr. Ali Mohamed Abd El-Haleem, Associate Professor of Plant Nutrition and Soil Fertility, Soils Department, Faculty of Agriculture, Moshtohor, Zagazig University for supervision, suggesting the problem, comments and suggestions on manuscripts, patient guidance, and constructive criticisms that have been extremely invaluable in this research.

Special thanks are extended to Professor Dr. Raafat Srouf Professor of Soil Science, Faculty of Agriculture, Moshtohor, Zagazig University, for sincere help and support and facilities made available in the Department.

Tanks are also extended to the Staff members of Soils Department, Faculty of Agriculture, Moshtohor, Zagazig University, as well as Staff members of Soils, Water and Environment Research Institute, Agriculture Research Center, for supporting and cooperation.

