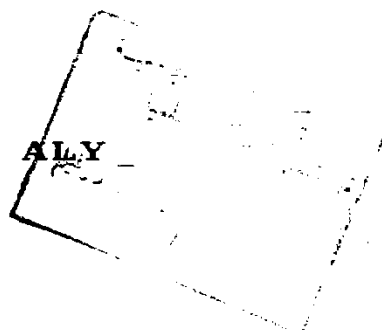
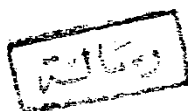


**EFFECT OF SOME CHEMICAL TREATMENTS
ON IRON CHLOROSIS RECOVERY**

By

SAMIR SAAD MOHAMED ALY



A thesis submitted in partial fulfillment
of
the requirements for the degree of

DOCTOR OF PHILOSOPHY

in

Agricultural Sciences
(Soil Science)

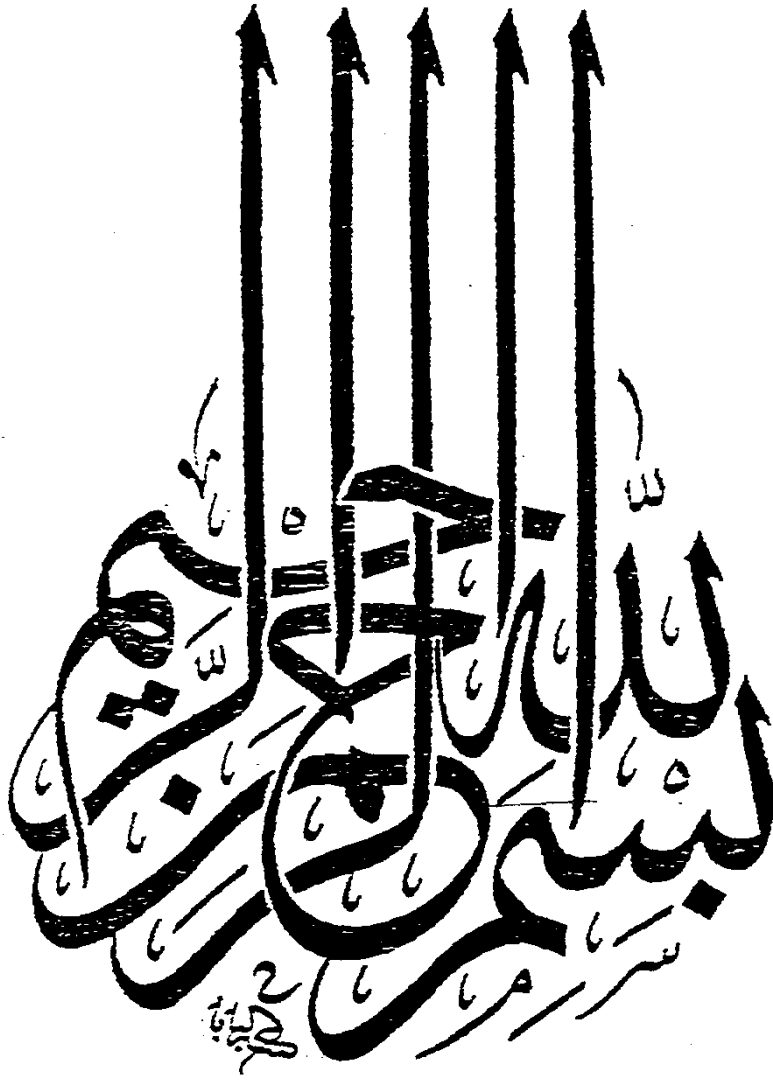
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Department of Soil Science
Faculty of Agriculture
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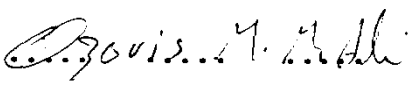
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ABSTRACT

Four experiments were conducted to evaluate the effect of some chemical treatments on iron chlorosis recovery of corn plants grown on calcareous soil and the distribution of Fe among soil various fractions using ^{55}Fe . Results indicated that the chemical treatments, added either as foliar or soil application, had great effect on growth, nutrient uptake and recovery of iron chlorosis by improving the status of chlorophyll and ferrous content in leaves of corn plants. ^{55}Fe fractions in tested soil were also discussed.

Key Words

Caffeic acid

Chemical treatments

^{55}Fe

FeSO_4

Iron chlorosis

L-serine

Salicylic acid

Sulfur

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