

سامية محمد مصطفى



شبكة المعلومات الجامعية

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



سامية محمد مصطفى



شبكة المعلومات الجامعية



شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



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شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
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بعض الوثائق الأصلية تالفة



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بالرسالة صفحات

لم ترد بالأصل



EFFECT OF CHEMICAL AND PHYSICAL MUTAGENESIS ON YIELD OF FORAGE SORGHUM

By

RAMY AHMED NASHAAT ABD EL- AZIZ DIAB

B. SC. (Agron.), Zagazig University 1995

THESIS

Submitted in Partial Fulfillment of
the Requirements for the Degree of

MASTER OF SCIENCE

in

AGRICULTURE SCIENCE

(AGRONOMY)

Department of Agronomy and Mechanization

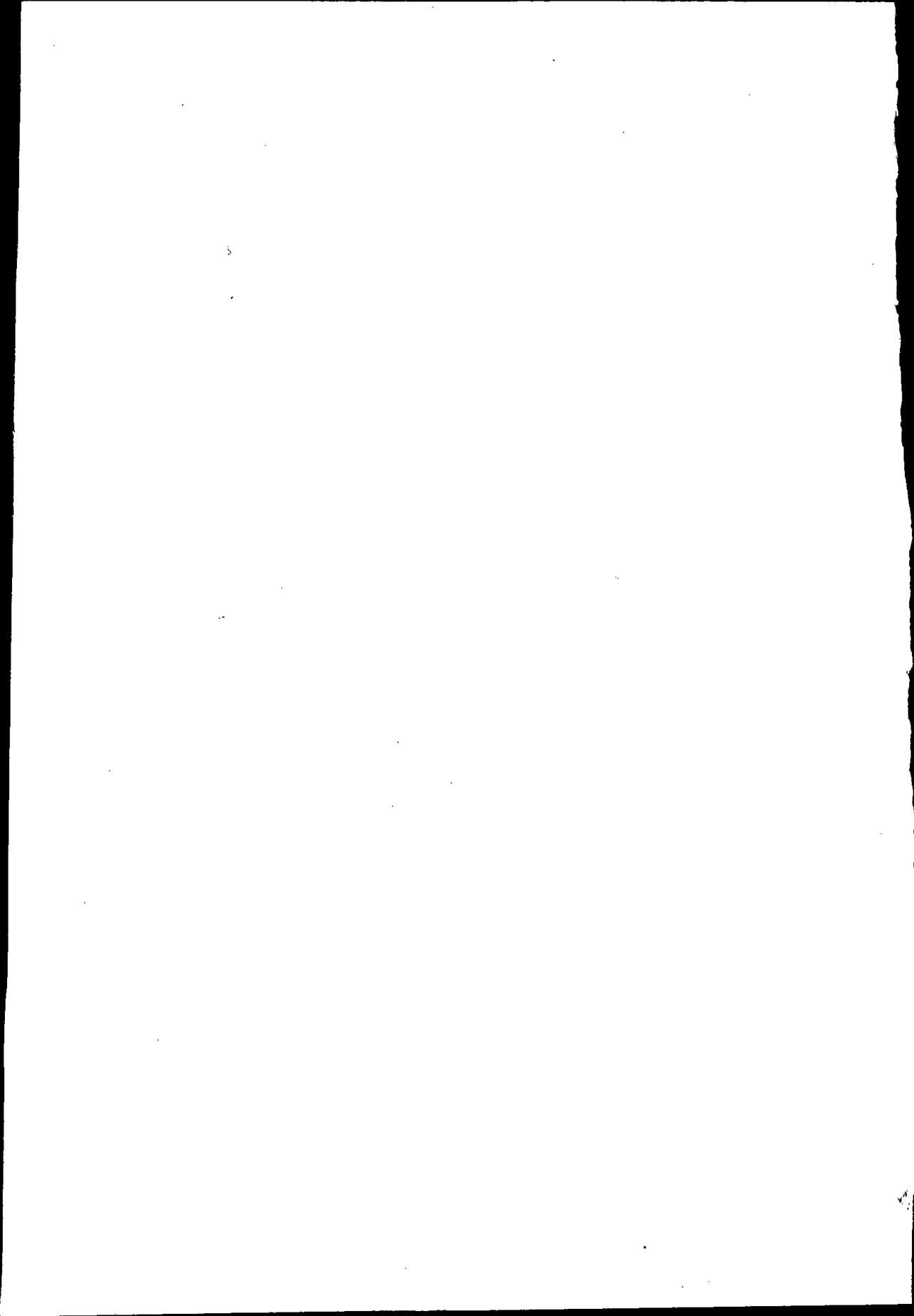
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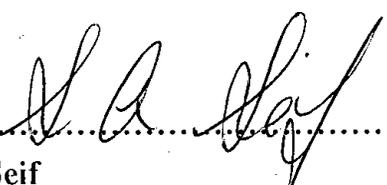


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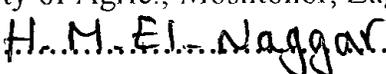
Under the supervision of :

Prof. Dr. .....

S. A. Seif

Professor of Agronomy

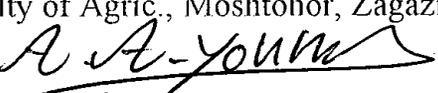
Faculty of Agric., Moshtohor, Zagazig Univ.

Prof. Dr. .....

H. M. M. El Naggat

Professor of Agronomy

Faculty of Agric., Moshtohor, Zagazig Univ.

Prof. Dr. .....
A. A. Younis

Forage Crop Research Section

Agric. Res. Cent.

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APPROVAL SHEET

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This thesis for M.Sc. degree has been

Approved by:

1- Prof. Dr. *A.S. El-Debaby*.....

A.S. El- Debaby

Professor of Agronomy

Faculty pf Agric., Moshtohor, Zagazig Univ.

2- Prof. Dr. *A.A. Younis*.....

A.A. Younis

Head of Agronomy

Agric. Res. Cent. Giza

3- Prof. Dr. *A.H. Belal*.....

A.H. Belal

Professor of Agronomy , vice Dean of graduate students and
Research, Faculty of Ecological Agric Science, Seuz Canal Univ.,
El Arish.

4- Prof. Dr. *S.A. Seif*.....

S.A. Seif

Professor of Agronomy

Faculty pf Agric., Moshtohor, Zagazig Univ.

5- Prof. Dr. *H.M.M. El-Naggar*.....

H.M.M. El Naggar

Professor of Agronomy

Faculty pf Agric., Moshtohor, Zagazig Univ.

(Committee in Charge)

Date of Examination: 8/6 /2003

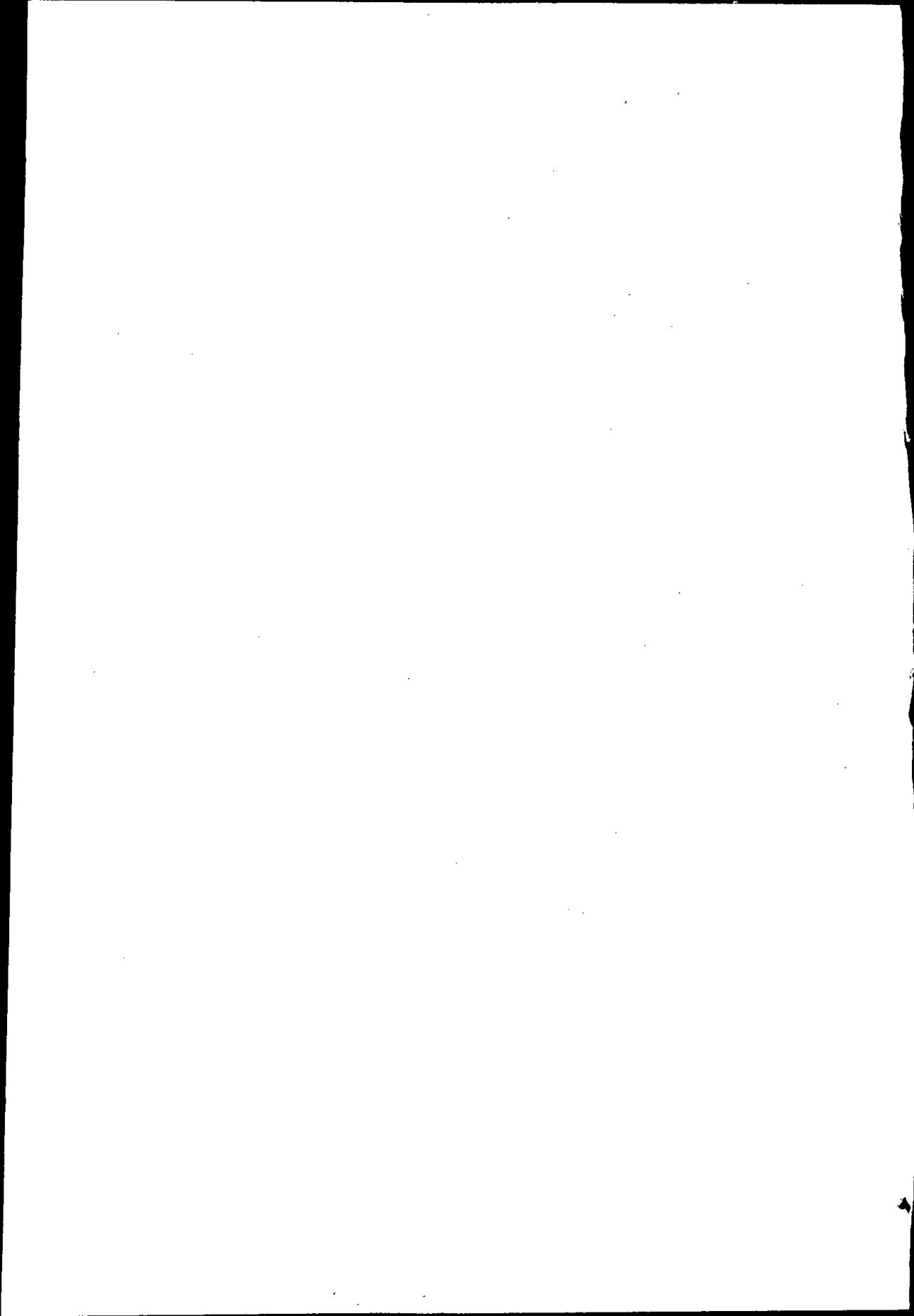
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ABSTRACT

Investigations were carried out to study the effect of gamma ray using doses of 10, 20, 30 and 40 KR, Sodium Azide at 1.0×10^{-3} , 1.5×10^{-3} and 2.0×10^{-3} m level and Cyanno Gudinin at 0.001, 0.01 and 0.1 M concentrations on two sorghum cultivars which were Tifton and Quna.

The effect of the applied mutagenic treatments on the vegetative morphological characteristics as fresh yield, dry yield, number of tellering, stem diameter, number of leaves, leaf area and downy mildew was studied. the relevant chemical constituents as crude protein, crude fiber, nitrogen free extract, ether extract and hydrocyanic acid content were analysed and presented. Meanwhile, the response of the applied treatments on the grain yield components and characteristics as time elapsed to 50 % flowering, plant height at heading stage, head weight/ plant, grain weight/ plant, 1000 kernel weight and shelling ratio were studied and presented. Also, superior plants for favourable characteristics were selected and described.

