

THE LIBYAN JOURNAL OF

AGRICULTURE

Editor in Chief

Dr. M. M. BEN HALIM

Editors

Dr. MOHAMED SHAGROUN

Dr. GILANI ABDULEGAWAD

Dr. Z. MOHASSEB

Dr. M. BAYOUMI

Secretary

M. NASSAR

When citing from this Journal, use the following abbreviation:
Libyan J. Agr.

Published annually by the Faculty of Agriculture,
University of Alfateh, TRIPOLI, Socialist People's Libyan Arab Jamahiriya (S.P.L.A.J.)

Contents

AGRONOMY

- The Response of vegetative Growth, Chlorophyll Content and Yield of Wheat to Grain Soaking in High Concentration of Cycocel (CCC):
M. A. EL-SHARKAWY, M. E. YOUSEF and M. R. NAGI 1

AGRICULTURAL MECHANIZATION

- Effect of Potato Digger Speed Ratios and Elevator Agitation on Harvesting Efficiency, cost and Tuber Losses: M. S. CHAUDHRY, S. M. SHERIF and M. K. IMAM 9
- The Effect of Tillage and Nitrogen Fertilization on Yield and Yield Components of Wheat: M. S. CHAUDHRY, S. M. SHERIF and J. S. SAWHNEY 17

ANIMAL SCIENCE

- Neonatal Colibacillosis in Calves: O. HAMED, B. H. M. EL-GUSBI and A. M. NOUR 25
- The Effect of Oestradiol-17 β and Progesterone on the Pituitary Response to Gonadotrophin-releasing hormone (GN-RH) in Anoestrous Ewes: A. M. SHAREHA 31

FOOD SCIENCE

- Effect of Milk Constituents on Hepatic Cholesterogenesis: AHMED ASHOUR AHMED, R. D. MCCARTHY and G. A. PORTER 39
- The Major Chemical Constituents and the Amino Acid Make-up of Protein in Naked Pumpkin Seed Cake (*Cucubita pepo*): MOHAMMED I. EL-GHARBAWI 53
- Formulation, Storage Possibilities, and Chemical Composition of Ready-to-Eat Fish-Tahena Paste: A. A. EL-SHAHALY, M. S. MOHAMED, ESMAT M. EL-ZALAKI and ZEINAB S. MOHASSEB 59
- Formulation, Storage Possibilities, and Chemical Composition of Ready-to-Eat Honey-Tahena Paste: A. A. EL-SHAHALY, M. S. MOHAMED, ESMAT M. EL-ZALAKI and ZEINAB S. MOHASSEB 65

HORTICULTURE

- Response of 'Santa Maria' Pear Budlings Grown on two Rootstocks to Soil Application of FeEDDHA: HUSAIN S. AHMED, ISSAM A. HASSABALLA and MOHAMED S. SHALADAN 73

The Use of Ethrel in the Colouring of 'Ajami' Apple Fruits: HUSAIN S. AHMED and MOHAMED S. SHALADAN	79
A Study on the Effect of Ethrel on Uniformity of Peach Ripening: HUSAIN S. AHMED and MOHAMED S. SHALADAN	85
Studies on the Sugars, Starch and Alcohol Insoluble Solid Contents in Fruits and Pinnae of Date Palm in Basrah: MOHAMMED Y. EL-SHURAF A	89
Mixture of Sandy Soil and Arvo-Humus as Improved Media for Geranium Plants: M. Z. MAHDI and SAMIR SALLAM	97
The Effect of Some Auxins on Rooting and Growth of <i>Populus alba</i> L.: M. Z. MAHDI and SAMIR SALLAM	101

PLANT PROTECTION

Survey of Seed-borne Fungi in the Libyan Jamahiriya: ABDULNABI ABUGHNA and ISSA S. FARAJ	105
Insect Pests of Corn in the Libyan Jamahiriya and Infestations Associated with its Seedling Stage: MOSTAFA KAMAL AHMED	109
The Role of the Predaceous Mite <i>Typhlodromous athiasae</i> Porath and Swirski in the Control of the Carmine Mite <i>Tetranychus cinnabarinus</i> (Bois.) (Tetranychidae: Acarina) Infesting Lemon Seedlings: NAWAL A. HESSEIN	115
A Survey of Biological Control Agents in Tripoli, S.P.L.A.J.: NAWAL A. HESSEIN	119
Observations on Citrus Autumn Leaf Drop in the Libyan Jamahiriya: ABD EL-SHAFA A. FUDL-ALLAH	125
Studies on the Blackleg Disease of Potato in the Libyan Jamahiriya: M. M. EL ZAYAT, J. L. OMAR and M. M. TAHER	129

SOIL AND WATER SCIENCE

Characterization of Sarir Sahara Soils in the Libyan Jamahiriya: GILANI ABDELGAWAD, EZZEDEIN RAHOMA and W. BUSCH	137
Water Flow Through Saturated Clay Soil and Moisture Tension Relations as Affected by Ca-monobasic Phosphate Treatment: MOHAMED ASSEED, GILANI ABDELGAWAD and AHMED SHABAN	147
Fine Particles Translocation During Infiltration into Porous Media: MOHAMED ASSEED and DALE SWARTZENRUBER	157
Use of Leaf Size-Leaf Area Relationship to Estimate Leaf Dry matter in Tobacco (<i>Nicotiana tabacum</i> L.): YOUSEF MATAR:	165
Competitive Growth of <i>Nitrosomonas</i> and <i>Nitrobacter</i> in Inorganic Sulfur Containing Sandy Soils: S. M. SALEH	171
Growth of <i>Nitrosomonas</i> and <i>Nitrobacter</i> in Sandy Soils Amended with Organic Constituents: S. M. SALEH and A. AZZOUZ	179
Characterization of Two Lytic Bacteriophages of <i>Bacillus thuringiensis</i> Isolated from Soil: S. M. SALEH, G. M. BOUSH and J. L. PATE	189
Significance of <i>Bacillus thuringiensis</i> Lytic Bacteriophages in Soil: S. M. SALEH and R. F. HARRIS	199

NOTES

Registration of Crop Cultivar: Registration of AZZAWIA Alfalfa (Reg. No. 1): KHAIRI SGAIER	205
--	-----