

VOLUME III. SEPTEMBER 1974

THE LIBYAN JOURNAL OF

AGRICULTURE

Editor in Chief

Dr FARID NOUR-ELDIN

Editors

Dr MABROUK EL-SHARKAWY

Dr ADNAN DARWASH

Dr GILANI ABDELGAWAD

Dr B. M. SAGHER

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

Published annually by the Faculty of Agriculture,
University of Tripoli, TRIPOLI, LIBYA

CONTENTS

GILANI ABDELGAWAD, ALBERT PAGE, AND LANNY LUND: Chemical and Mineralogical Properties of Kufra Sahara Soils	1
M. ABAZA, M. F. GHONEIM, AND A. ZWAIK: Use of Sea-Water Dilutions for Irrigation in Sand Dunes in the Northern Coasts in Libya	7
MOHAMED ASSEED, AND D. SWARTZENDRUBER: Water Infiltration into Uniform and Stratified Soils. I. Review and use of an Approximate Theory	19
M. F. GHONEIM, M. ABAZA, AND MOSTAFA K. IMAM: Growth and Yield of Two Potato Cultivars as Affected by Irrigation and Fertilization under Libyan Conditions	27
F. A. SOROUR, M. H. LASHIN, S. FAKHRI, AND M. A. BARAKAT: Effect of Nitrogen Level under Different Salinity Conditions on the Yield and Leaf Reddening in Cotton	33
F. A. SOROUR, AND S. F. ABDEL RASSOUL: Effect of Shading at Different Stages of Growth of the Cotton Plant on Flowering and Fruiting, Boll Shedding, Yield of Seed Cotton and Earliness	39
JAGDEV S. SAWHNEY, AND M. R. OMAR: Water Uptake and Germination of Corn Grains in Different Solutions	45
JAGDEV S. SAWHNEY, AND VLADIMIR STOYANOV: Effect of Nitrogen Fertilization on Some Chemical Constituents of Kernels of Three Varieties of Wheat Grown in Libya	49
M. A. EL-SHARKAWY, AND K. SGAIER: Effect of Preplanting Fertilizer, Source and Rate of Postemergence Nitrogen on the Yield and Growth of Dwarf Wheat in the Kufra Oasis, Libya	53
M. A. EL-SHARKAWY, AND K. SGAIER: Effect of Time and Rate of Fertilizer Application on Nutrient Uptake by Wheat from Kufra Desert Soil	69
M. A. EL-SHARKAWY, AND K. SGAIER: Yield Trial of Sixteen Tall and Dwarf Wheat Varieties (<i>Triticum aestivum</i> L.) Grown in the Libyan Desert	77
M. A. EL-SHARKAWY, AND K. SGAIER: Yield Trial of Sixteen Barley Varieties (<i>Hordeum vulgare</i> L., and <i>H. distichum</i> L.) Grown in the Libyan Desert	81
M. M. EL-ZAYYAT, JAGDEV S. SAWHNEY, MUSTAFA ABLACK, AND IBRAHIM NASHNOOSH: Effect of some Seed Dressings on Germination of Wheat Grain	85
HUSAIN S. AHMED: Use of Gibberellic Acid in the Stratification of Peach Seeds	89
ISSAM A. HASSABALLA, AND IBRAHIM FAHMY: Effect of Different Rootstocks on Growth and Leaf Nitrogen in Young <i>Citrus</i> Cultivars	95
ABD EL-SHAFY A. FUDL-ALLAH: Movement of Excoertis Virus in Citrus Plants	101
ABD EL-SHAFY A. FUDL-ALLAH, AND MOHAMED M. BARAKA: Pathological Anatomy of Olive Tumors Caused by <i>Pseudomonas Savastoni</i>	105
FARIDA H. BADAWY: Studies on the Nitrogen-Fixing Bacteria of the Genus <i>Azotobacter</i> in Libyan Soils	109
MOHAMED I. EL-GHARBAWI: Chemical Study of 'Harisa', (Chili Red Pepper Sauce), Manufactured in the Libyan Arab Republic	119
M. I. EL-GHARBAWI, M. A. ABDALLA, AND E. S. EL-GOUNDY: Studies on some Market Meats in Egypt. I. Changes in Nitrogenous Compounds during Aging, Freezing and Storage	125
ADNAN O. DARWASH: Performance of Friesian and Brown Swiss Cows Raised on the University Farm in Tripoli I. Dairy Characters	131
 NOTES:	
ADNAN O. DARWASH: The Possibility of Utilizing Imported Frozen Bull Semen in the Libyan Arab Republic. (L.A.R.)	137
FARIDA H. BADAWY, AND SAFIYA B. AMER: The Effect of Inoculation with <i>Azotobacter</i> on the Growth of Wheat and Tomato Plants	141
<i>Instructions to Authors</i>	145