# THE JOURNAL OF AGRICULTURAL SCIENCE

#### EDITED BY

G. D. H. BELL, B.SC., PH.D., School of Agriculture, Cambridge

E. M. CROWTHER, D.SC., F.R.I.C., Rothamsted Experimental Station, Harpenden

J. HAMMOND, C.B.E., M.A., D.SC., F.R.S., School of Agriculture, Cambridge

H. HUNTER, M.A., D.SC., 176 Huntingdon Road, Cambridge

B. A. KEEN, D.SC., F.R.S., East African Agriculture and Forestry Research Organisation, P.O. Box 21, Kikuyu, Kenya

SIR E. J. RUSSELL, D.SC., F.R.S., Campsfield Wood, Woodstock, Oxon.

H. E. WOODMAN, M.A., PH.D., D.SC., School of Agriculture, Cambridge

F. YATES, sc.D., F.R.S., Rothamsted Experimental Station, Harpenden



CAMBRIDGE UNIVERSITY PRESS LONDON: BENTLEY HOUSE, N.W.1 NEW YORK: 32 EAST 57TH STREET, 22

Price 15s. net

Books on Agriculture,
Botany and Allied
Sciences of all publishers
supplied from stock.

Catalogue of Books on Agriculture, Horticulture and Allied Subjects available post free on request.

Please mention interests when writing.

Scientific Lending Library
New books and latest editions obtainable.

ANNUAL SUBSCRIPTION
FROM TWENTY-FIVE SHILLINGS
Prospectus post free on request.

THE LIBRARY CATALOGUE revised to December 1949

To subscribers 17s. 6d. net. To non-subscribers 35s. net, postage 1s.

Second-Hand Books
140 GOWER STREET, W.C.1

### H. K. LEWIS & Co. Ltd.

LONDON: 136 Gower St., w.c. I Telephone EUSton 4282 (7 lines)

## AGRONOMY JOURNAL

(formerly the JOURNAL of the American Society of Agronomy)

Vol. 44 February 1952 No. 2

Influence of Nutrient Concentration on the Growth and Chemical Composition of Alfalfa, by Arthur Wallace. Fifty Generations of Selection for Protein and Oil in Corn, by C. M. Woodworth, Earl R. Leng and R. W. Jugenheimer. The Influence of Temperature and Light Factors on the Growth and Development of Sugar Beets in Controlled Climatic Environments, by Albert Ulrich. The Relationship Between Heat Unit Accumulation and the Planting and Harvesting of Canning Peas, by Yale H. Katz. Loss of Nitrogen and Water from Fayette Silt Loam as Measured by Monolith Lysimeters, by Clyde E. Bay and Harold H. Hull, etc., etc.

also other articles concerned with research in crops and soils

Published by

The American Society of Agronomy 2702 Monroe Street

Madison 5, Wisconsin

Price, outside U.S., Canada, and pan-American countries: \$12.00 per year

# THE EMPIRE JOURNAL OF

## EXPERIMENTAL AGRICULTURE

THIS JOURNAL offers agricultural research workers a medium for disseminating the records and results of their investigations on the feeding and management of live stock, cultivation and manuring of crops, trial of farm machinery, agricultural economics, and experimental technique.

Vol. XX. No. 77

CONTENTS

January 1952

- M. E. CASTLE, A. S. FOOT and S. J. ROWLAND: Fodder-Beet. Comparison of Danish Fodder-Beet and English Mangold in the South of England.
- BRYNMOR THOMAS, A. THOMPSON, V. A. OYENUGA and R. H. ARMSTRONG: The Ash Constituents of some Herbage Plants at Different Stages of Maturity.
- F. C. MINETT: The Cost of Foot-and-mouth Disease.
- C. J. Rose: The Economics of Fertilizing Natural Veld, as shown by Dairy Animals, Frankenwald, 1951.
- C. NORTH: Vegetative Propagation of Cabbage and Allied Vegetables. With Plate I.
- P. H. NYE: Studies on the Fertility of Gold Coast Soils. Pt. III. The Phosphate Status of the Soils.
- K. R. M. Anthony and S. A. J. Tarr: The Causes of Deterioration of Cotton Seed in the Equatoria Province of the Anglo-Egyptian Sudan.
- R. E. D. BAKER and N. W. SIMMONDS: Bananas in East Africa. Pt. II. Annotated List of Varieties.
- D. S. THOMPSON and P. G. SCHINCKEL: Incidence of Oestrus in Ewes.

Royal 8vo. 11s. net. Annual subscription (four numbers) 34s. post free.

OXFORD UNIVERSITY PRESS, Amen House, LONDON, E.C. 4

#### JOURNAL OF AGRICULTURAL SCIENCE

The Proprietors beg to announce that owing to the increasing cost of production, they have been reluctantly compelled to raise the subscription price to 50s. post free and the price of single numbers to 15s. plus the cost of postage. These terms will come into force with the first part of Volume 42 to be issued in 1952. Orders should be placed with your Bookseller or Agent or alternatively with the Cambridge University Press, 200 Euston Road, London, N.W. 1.

Orders and enquiries from subscribers in the U.S.A. should be addressed to Cambridge University Press, American Branch, 32 East 57th Street, New York 22, N.Y.

Orders sent direct to the Publishers should be accompanied by a remittance.

If you have already placed your order for the Volume, kindly confirm it at the increased price.