THE JOURNAL OF AGRICULTURAL SCIENCE

EDITED BY

G. D. H. BELL, B.SC., PH.D., Plant Breeding Institute, Cambridge
R. E. EVANS, M.SC., PH.D., School of Agriculture, Cambridge
J. HAMMOND, C.B.E., M.A., D.SC., F.R.S., School of Agriculture, Cambridge
H. HUNTER, M.A., D.SC., Keys Cottage, Meldreth, nr. Royston, Herts.
SIR BERNARD KEEN, D.SC., F.R.S., 72 Eaton Square, London, S.W. 1
SIR E. JOHN RUSSELL, D.SC., F.R.S., Campsfield Wood, Woodstock, Oxon.
E. W. RUSSELL, M.A., PH.D., F.INST.P., East African Agriculture and Forestry Research Organisation, P.O. Box 21, Kikuyu, Kenya
R. K. SCHOFIELD, PH.D., F.INST.P., Department of Agriculture, Oxford
F. YATES, SC.D., F.R.S., Rothamsted Experimental Station, Harpenden



CAMBRIDGE UNIVERSITY PRESS

Bentley House, 200 Euston Road, London, N.W. 1 American Branch: 32 East 57th Street, New York 22, N.Y.

Price 25s. net (U.S.A. \$4.25)

HEFFER'S



BOOKS ON
BIOLOGY
AGRICULTURE
FORESTRY

W. HEFFER & SONS LTD.
3-4 Petty Cury, Cambridge

AGRONOMY JOURNAL

Agronomists throughout the world have found the Agronomy Journal, monthly publication and official organ of the American Society of Agronomy, a source of up-to-date reports on agronomic research. Workers in the fields of forages and pastures, small grain improvement, corn, fibre crops and legumes, cultural practices, and soil fertility, as well as closely allied fields of investigation find articles of lasting interest in the Agronomy Journal. Publication is open to members of the American Society of Agronomy.

Non-member subscriptions: \$14.00 per year, U.S. and Canada. \$15.00 per year elsewhere.

American Society of Agronomy 2702 Monroe Street Madison 5, Wisconsin

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. XXV. No. 100

CONTENTS

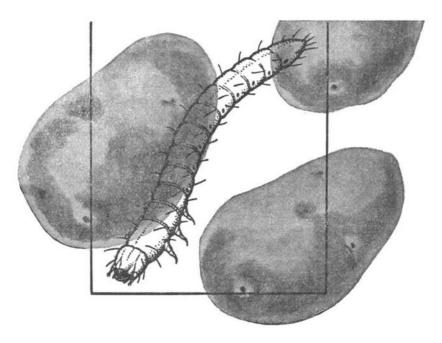
October 1957

- P. N. Wilson: Further Notes on the Development of the Serere Herd of Shorthorned Zebu Cattle.
- P. A. LOIZIDES: Fertilizer Experiments in Cyprus. I. Experiments with Potatoes, Cotton, and Onions.
- R. C. Stephen: The Influence of Planting Date on Tobacco Growth and on the Incidence of Cercospora Leafspot Disease in Southern Rhodesia.
- I. ASCARELLI: Note on a Case of Chick-growth Depression Caused by a Detergent.
- R. S. EDWARDS: Studies of the Growth of Cereals on Seed-beds Prepared by Dry-sieving of the Soil.

 II. Post-emergence Survival and Development. With Plates 4, 5, and 6.
- W. J. A. Payne and J. Hancock: The Direct Effect of Tropical Climate on the Performance of Europeantype Cattle. II. Production.
- A. J. BROOKES and J. O. LATHAM: Investigations into Problems Involved in the Production of Beef from Dairy-bred Steers. With Plates 7 and 8.

Royal 8vo. 14s. net. Annual subscription (four numbers) 45s. post free.

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



Halved labour:

Double benefit

In many countries where there is a soil pest problem such as wireworm, farmers are now applying insecticide and fertiliser in one operation. This important, two-jobs-in-one farming technique has been made possible because aldrin can be mixed successfully, without caking, with any fertiliser mixture, whether of an acid or alkaline nature. In addition, the stability of aldrin itself remains unaffected by variations in soil acidity. The outstanding advantages of aldrin/fertilisers are that not only is physical handling reduced but

protection and feed are supplied together. Furthermore, by protecting the root system, aldrin enables the crop to take maximum advantage of the fertiliser. Growth is more rapid and yields are increased all round. Aldrin/fertiliser mixtures bring a double benefit—cost and crop.

Ready-mixed products are available from leading fertiliser manufacturers in many countries, or the mixing can be carried out on the farm.

aldrin

aldrin, dieldrin, endrin, D-D and Nemagon

are (SHELL) pesticides for world-wide use

For further information apply to your Shell Company.

Issued by The Shell Petroleum Company Limited, London, E.C.3, England

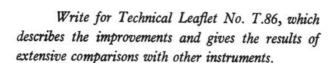


Gunn-Bellani radiation integrator

The thermal efficiency of the century-old Bellani instrument has been improved by Gunn, Kirk & Waterhouse, and later by Pereira, from 4% to over 75% thermal efficiency. In its new form, the instrument has extensive applications in meteorology, agriculture, irrigation, microclimatology, bio-physics etc.

Simple and reasonably priced, it can be used in adequate numbers for field observations, thus providing an essential link between expensive recording thermopiles and the simple meteorological records





complete laboratory service



BAIRD & TATLOCK (LONDON) LTD., CHADWELL HEATH, ESSEX, ENGLAND.

Branches in London, Manchester, Glasgow. Agents throughout U.K. and all over the world.

Investigations into Grain Storage Problems in Nyasaland

with special reference to Maize (Zea mays L.)

By Dr. K. F. SALMOND

An assessment of the range and economic importance of insects associated with bulk-stored maize in Nyasaland and of the weight changes due to drying out and picking up moisture. Two underground experiments are reported on, dealing with both the control of damage by water and methods of protection against infestation. Illustrated; bibliography.

4s. 6d. (post 4d.)

HMSO

from the Government Bookshops or through any bookseller

Full particulars of the

JOURNALS

published by the

CAMBRIDGE UNIVERSITY PRESS

may be had from

The Manager

Cambridge University Press

Bentley House, 200 Euston Road

London, N.W. 1

MICHROME STAINS

and Reagents

for Microscopy & Biology
Brilliant Cresyl Blue Lipase

Cresyl Fast Violet CNS
Cytase
Giemsa Stain
Janus Green, B
Lacmoid
Leishman Stain
Sudan Black
Trypan Red
Leishman Stain
Urease, etc.

MF. 4 Stain (for keratin, etc.)

AQUAMOUNT: synthetic, colourless, neutral, aqueous mountant, moderately quick-drying OPTOIL: synthetic, colourless, non-sticky

OPTOIL: synthetic, colourless, non-sticky immersion oil

CLEARMOUNT & CRISTALITE: colourless, synthetic, neutral mountants, xylol miscible

EDWARD GURR, LTD.

42 Upper Richmond Road West, East Sheen, London, S.W. 14

Telephone: Prospect 7606 & 8051 Cables: Micromlabs London

Service, Uniform High Quality, Reliability, Immediate Delivery

Ready early 1958: "Methods of Analytical Histology and Histochemistry," by Edward Gurr. Royal 8vo. First edition, about 475 pages, approx. 65/- net.