## 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
SIR J. HAMMOND, C.B.E., M.A., D.SC., F.R.S., School of Agriculture, Cambridge
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. I AMERICAN BRANCH: 32 EAST 57TH STREET, NEW YORK 22, N.Y.

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

## **MICHROME STAINS**

#### and Reagents for Biology & Histochemistry

Adenosine Adenylic acids Brilliant Cresyl Blue Cytase Giemsa Stain Leishman Stain Luxol Fast Blue Pyronin Ribonuclease Sudan Black Trypsin Urease, etc.

#### 62-page catalogue available on request

Now ready: new books by Edward Gurr: "Encyclopaedia of Microscopic Stains," about 500 pages Royal 8v0, price about 955., by Edward Gurr "Methods of Analytical Histology and Histochemistry." Royal 8v0. First edition, 334 pages, 9‡" × 6‡". Price 701. "Microscopic Staining Techniques." No. 4 (1958), No. 3 (and edit. 1958), each 66 pages, each price 61. (U.S.A. \$1.00)

#### EDWARD GURR, LTD.

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

> Telephone: Prospect 7606 & 8051 Cables: Micromiabs London

Service, Uniform High Quality, Reliability, Immediate Delivery

### 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

### JOURNAL OF REPRODUCTION AND FERTILITY

The Journal will publish original papers, abstracts of Proceedings, and occasionally reviews and bibliographies dealing with the morphology, physiology, biochemistry and pathology of reproduction in man and other animals, and with the biological, medical and veterinary problems of fertility. Numbers will be issued quarterly to give one volume per year, until the flow of material justifies greater frequency. Volume 1, No. 1, will appear at the end of February 1960. The subscription rate is 70s. per volume. U.S.A. and Canada \$12.00.

Dr T. Mann, F.R.S., is Chairman and Dr A. S. Parkes, C.B.E., F.R.S., Secretary of the Council of Management. Dr C. R. Austin has been appointed Editor, and the Editorial Board includes Professor E. C. Amoroso, F.R.S., Dr R. A. Beatty, Dr P. M. F. Bishop, Dr J. L. Hancock, Professor R. G. Harrison, Dr Margaret Jackson, Professor J. A. Laing, Mr L. E. Rowson and Dr G. I. M. Swyer.

Editorial correspondence should be addressed to Dr C. R. Austin, National Institute for Medical Research, Mill Hill, London, N.W. 7, and business correspondence to the Publishers.

#### BLACKWELL SCIENTIFIC PUBLICATIONS OXFORD

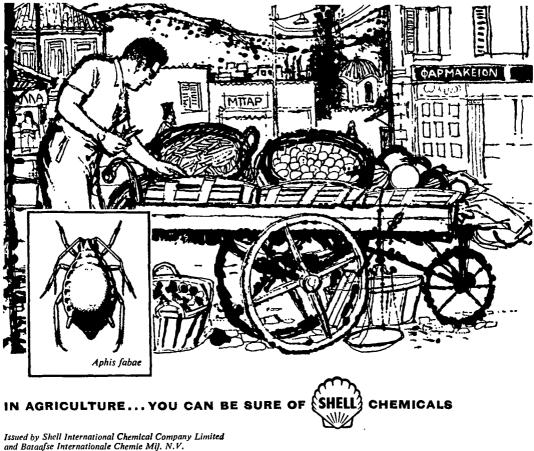
# Heracles comes to town

Argolis, scene of one of the Twelve Labours of Heracles, is today one of the principal vegetable-growing areas of Greece. Soil and climate are ideal for beans, potatoes and other crops—and to the pests that prey upon them. Aphids are the chief menace. Several insecticides have proved effective against them, but most cannot be used for close-to-harvest application as this may lead to dangerous residues. An effective insecticide of short persistence with quick, sure-kill properties is needed—and Phosdrin fills the bill ideally. Sprayed on beans, this new systemic Shell insecticide produced a 95% kill after 30 minutes, and a 100% kill within 3 hours. More important, it can be applied *up to 48 hours before harvest*, without risk of harmful residues. With Phosdrin controlling the aphids,

today's young Heracles is coming to market with vegetable baskets fuller than ever before.

# **Phosdrin** new systemic Shell insecticide

Besides its use on vegetables, Phosdrin controls insects and mites on fruit, tobacco, ornamentals and other crops. Between them, aldrin, endrin, dieldrin, Phosdrin, D-D and Nemagon control virtually every world pest. If you have a pest problem, consult your Shell Company.



and Bataajse Internationale Chemie Mij, N.V. For further information consult your Shell Company (in the U.K., apply to Shell Chemical Company Limited)

## HERBAGE ABSTRACTS AND FIELD CROP ABSTRACTS

These two quarterly journals, prepared by the Commonwealth Bureau of Pastures and Field Crops, are composed of abstracts in English from the world's current scientific literature. *Herbage Abstracts* deals with grasslands and fodder crops while *Field Crop Abstracts* covers annual field crops. Both journals include review articles on subjects of current interest, as well as informative abstracts dealing with crop husbandry, varieties, crop botany and the control of diseases, pests and weeds.

For those engaged in agricultural research, or in advising farmers, these two journals offer a ready means for keeping in touch with current progress in agricultural research without the need for scrutinizing the mass of agricultural publications now appearing throughout the world in many languages—an impossible task for an individual. The annual subject- and author-indexes to *Herbage Abstracts* and *Field Crop Abstracts*, dating from 1930 and 1948, respectively, form a valuable source of reference to past work.

Each journal (with annual indexes) costs 50 shillings, or \$7.00, per annum, post free.

Specimen copies and further information can be obtained from:

THE DIRECTOR COMMONWEALTH BUREAU OF PASTURES AND FIELD CROPS HURLEY, BERKSHIRE ENGLAND