

# THE JOURNAL OF AGRICULTURAL SCIENCE

EDITED FOR THE PLANT BREEDING AND ANIMAL NUTRITION RESEARCH INSTITUTES AT CAMBRIDGE,  
AND THE ROTHAMSTED RESEARCH INSTITUTES BY

PROFESSOR SIR R. H. BIFFEN, M.A., F.R.S., School of Agriculture, Cambridge  
E. M. CROWTHER, D.Sc., F.I.C., Rothamsted Experimental Station, Harpenden  
SIR A. D. HALL, K.C.B., M.A., LL.D., F.R.S., John Innes Horticultural Institution,  
Merton Park, London, S.W. 19  
B. A. KEEN, D.Sc., F.INST.P., Rothamsted Experimental Station, Harpenden  
F. H. A. MARSHALL, C.B.E., Sc.D., M.A., F.R.S., School of Agriculture, Cambridge  
SIR E. J. RUSSELL, D.Sc., F.R.S., Rothamsted Experimental Station, Harpenden

IN CONSULTATION WITH

B. C. ASTON, Department of Agriculture, Wellington, New Zealand  
PROFESSOR B. T. P. BARKER, M.A., Agricultural and Horticultural Research Station, Long  
Ashton, Bristol  
I. B. POLE EVANS, Department of Agriculture, Pretoria, South Africa  
PROFESSOR J. HENDRICK, B.Sc., Marischal College, Aberdeen  
SIR T. H. MIDDLETON, K.C.I.E., K.B.E., C.B., M.A., The Development Commission, London  
DR A. E. V. RICHARDSON, Waite Agricultural Research Institute, Glen Osmond, South  
Australia  
DR FRANK T. SHUTT, F.I.C., Experimental Farms, Ottawa, Canada  
DR H. J. WHEELER, American Agricultural Chemical Co., Agricultural Service Bureau,  
419 Fourth Avenue, New York, U.S.A.



LONDON

Cambridge University Press  
Fetter Lane, E.C. 4

CHICAGO: The University of Chicago Press  
(Agents for the United States)

BOMBAY, CALCUTTA, MADRAS: Macmillan

TOKYO: Maruzen Company, Ltd.

*All rights reserved*

*Price Ten Shillings net*

[Issued 25 July 1933]

PRINTED IN GREAT BRITAIN

# Imperial College of Science and Technology

(ROYAL COLLEGE OF SCIENCE)

## COURSES IN AGRICULTURAL CHEMISTRY and Allied Subjects

Fee £22. 10s. 0d. per annum

Students are prepared for the *Higher Degrees of the University of London* (by Research or Dissertation) and for the *Fellowship of the Institute of Chemistry* (Branch F.—Agricultural Chemistry).

Arrangements are made for the study of the Chemistry of Soils, Fertilizers, Feeding Stuffs, and Farm Products; Plant and Animal Nutrition, Insecticides, Fungicides, etc., and will include courses of lectures, laboratory instruction, together with demonstrations and practical work at the College Biological Field Station at Slough.

*Intending students should apply  
to the Registrar*

IMPERIAL COLLEGE OF SCIENCE  
AND TECHNOLOGY  
SOUTH KENSINGTON, S.W. 7

# AN INDEX TO VOLUMES I-XX (1905-1930)

has been prepared, and  
may be obtained from any  
bookseller or from The  
Cambridge University Press  
Fetter Lane, London, E.C. 4

The price is 3s. 6d. net

in paper covers and

9s. net bound in

buckram

i

# The University of Chicago Press

## RURAL ORGANIZATION, 1929

Proceedings of the 12th American Country  
Life Association Conference. 10s. 6d. net

## HANDBOOK OF RURAL SOCIAL RESOURCES, 1928

*By Benson Y. Landis*

10s. 6d. net

## RHUS DERMATITIS

*By James B. McNair*

Cause, effect, and remedy in ivy poisoning.

21s. net

## AGRICULTURE IN THE CHICAGO REGION

*By E. A. Duddy*

The location, nature, and value of agri-  
culture within the area of a metropolis.

21s. net

## FOOD POISONING

(Revised edition)

*By Edwin O. Jordan*

13s. net

## SELECTIVE FERTILIZATION

*By Donald F. Jones*

The factors operating in the plant and  
animal world to influence choice in mate  
selection.

10s. 6d. net

*Agents for Great Britain and Ireland*

Cambridge University Press:

FETTER LANE,  
LONDON, E.C. 4