

THE JOURNAL OF AGRICULTURAL SCIENCE

EDITED BY

PROFESSOR R. H. BIFFEN, M.A., F.R.S., Cambridge

SIR A. D. HALL, K.C.B., M.A., F.R.S., Board of Agriculture, London

E. J. RUSSELL, O.B.E., D.Sc., F.R.S., Rothamsted Experimental Station, Harpenden

PROFESSOR T. B. WOOD, O.B.E., M.A., F.R.S., Cambridge

IN CONSULTATION WITH

DR H. P. ARMSBY, State College, Pennsylvania, U.S.A.

B. C. ASTON, Department of Agriculture, Wellington, New Zealand

DR C. A. BARBER.

PROFESSOR B. T. P. BARKER, M.A., National Fruit and Cider Institute, Long Ashton, Bristol

W. BATESON, M.A., F.R.S., John Innes Horticultural Institute, Merton, Surrey

J. R. CAMPBELL, B.Sc., Department of Agriculture, Dublin

I. B. POLE EVANS, Department of Agriculture, Pretoria, South Africa

F. B. GUTHRIE, Department of Agriculture, Sydney, N.S.W.

PROFESSOR J. HENDRICK, B.Sc., Marischal College, Aberdeen

J. W. LEATHER, V.D., F.I.C., Major

SIR T. H. MIDDLETON, K.B.F., C.B., M.A., The Development Commission, London

F. T. SHUTT, M.A., F.I.C., Experimental Farms, Ottawa, Canada

PROFESSOR W. SOMERVILLE, M.A., D.Sc., School of Rural Economy, Oxford

DR A. C. TRUE, Department of Agriculture, Washington, D.C., U.S.A.

DR FRANCIS WATTS, C.M.G., Barbados

DR H. J. WHEELER, American Agricultural Chemical Co., Boston, Mass.

VOLUME IX 1918—19



Cambridge University Press

C. F. CLAY, Manager

LONDON: Fetter Lane, E.C. 4

also H. K. LEWIS & Co., Ltd., 136, Gower Street, London, W.C. 1

and WILLIAM WESLEY & SON, 28, Essex Street, London, W.C. 2

CHICAGO: The University of Chicago Press

BOMBAY, CALCUTTA AND MADRAS: Macmillan and Co., Ltd.

TORONTO: J. M. Dent and Sons, Ltd.

TOKYO: The Maruzen-Kabushiki-Kaisha

[All rights reserved]

Part 3 (September, 1919)

	PAGE
BROOKS, F. T. and BAILEY, M. A. Silver-leaf disease, III. (Including observations upon the injection of trees with antiseptics)	189
PRESCOTT, JAMES ARTHUR. Nitrification in Egyptian Soils	216
GLYNNNE, MARY D. and JACKSON, VIOLET G. The distribution of dry matter and nitrogen in the potato tuber. Variety, King Edward. (Thirteen figures in text)	237
ROBINSON, GILBERT WOODING and HILL, CHARLES FREDERICK. Further studies on the soils of North Wales. (Two figures in text)	259
EYRE, J. VARGAS, SALMON, E. S. and WORMALD, L. K. The fungicidal properties of certain spray-fluids. II.	283

Part 4 (October, 1919)

RUSSELL, E. J. and RICHARDS, E. H. The amount and composition of rain falling at Rothamsted. (Based on analyses made by the late NORMAN H. J. MILLER.) (Four figures in text)	309
PURVIS, O. N. The effect of potassium salts on the anatomy of <i>Dactylis glomerata</i> . (Twenty-three figures in text).	338
GRIFFITH, J. J. Influence of mines upon land and livestock in Cardiganshire. (Plates IV—XVI)	366
KEEN, BERNARD A. A note on the capillary rise of water in soils	396
KEEN, BERNARD A. A quantitative relation between soil and the soil solution brought out by freezing-point determinations. (Four figures in text)	400
ANNETT, H. E. and SEN, JATINDRA NATH. The use of poppy seed cake as a cattle food and its effect on yield of milk and composition of the butter fat. (With seven charts)	416
CUTLER, D. WARD. Observations on soil protozoa. (One figure in text)	430