

VOLUME 110 PART I FEBRUARY 1988

The Journal of Agricultural Science

The Journal of Agricultural Science

EXECUTIVE EDITOR

Miss Jane King Department of Applied Biology, Pembroke Street, Cambridge CB2 3DX, UK

EDITORIAL BOARD

E. J. Allen University of Cambridge, UK R. B. Austin Institute of Plant Science Research (Cambridge Laboratory), UK B. W. Bache University of Cambridge, UK Sir James Beament University of Cambridge, UK G. D. H. Bell Cambridge, UK Sir Kenneth Blaxter Stradbroke, UK A. D. Care University of Leeds, UK J. A. Currie Harpenden, UK W. Dav AFRC Institute of Arable

Crops Research, UK

S. K. Eltringham University of Cambridge, UK

W. G. Hill University of Edinburgh, UK

G. Jenkins National Seed Development Organisation, UK

A. E. Johnston AFRC Institute of Arable Crops Research, UK

R. N. B. Kay, University of Nairobi, Kenya

C. N. Law Institute of Plant Science Research (Cambridge Laboratory), UK

G. M. O. Maloiy University of Nairobi, Kenya J. B. Owen University College of North Wales, UK

M. Peaker Hannah Research Institute, UK

P. E. Russell Chesterford Park Research Station, UK

S. K. Sinha Indian Agricultural Research Institute, India

D. E. Walters Institute of Animal Physiology and Genetics Research (Cambridge), UK

D. Wilman University College of North Wales, UK

F. Yates Rothamsted Experimental Station, UK

The Journal of Agricultural Science publishes papers from all over the world based on original data and on reassessments of past data covering the whole range of agricultural science. Each issue contains about 25 full length papers plus some short communications.

The Journal was launched in 1905 by the Cambridge Professors of Agriculture and the Director of the Rothamsted Experimental Station and their policy of making it a major source for agricultural education has been followed throughout. Thus all papers submitted are very carefully refereed for their scientific content and those published equally carefully edited to ensure that the English (the only language used) is unambiguous and easily translated into other languages.

Subscriptions. The Journal of Agricultural Science is published annually in two volumes of three parts. All orders must be accompanied by payment. The subscription price for 1988, volumes 110 and 111, is £132.00 in UK, £145 elsewhere net (USA and Canada US \$295) per volume (post free); single parts are available at £24 net (USA and Canada US \$55) plus postage. Orders or enquiries may be sent to any bookseller or subscription agent, or to the publisher: Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge CB2 2RU (USA and Canada, Cambridge University Press, 32 East 57th Street, New York, NY 10022, USA). Second class postage paid at New York, NY, and at additional mailing offices. POSTMASTER: send address changes in USA and Canada to *The Journal of Agricultural Science*, Cambridge University Press, 32 East 57th Street, New York, NY 10022.

Cambridge University Press 1988