

EXPERIMENTAL AGRICULTURE

Editor PROFESSOR J. P. HUDSON

Editorial Board PROFESSOR E. W. RUSSELL (CHAIRMAN)

PROFESSOR A. H. BUNTING PROFESSOR D. K. BRITTON DR. E. E. CHEESMAN PROFESSOR SIR J. B. HUTCHINSON

PROFESSOR J. D. IVINS SIR G. W. NYE D. RHIND DR. G. WATTS PADWICK DR. C. C. WEBSTER

CAMBRIDGE UNIVERSITY PRESS

Bentley House, 200 Euston Road, London NW1 2DB American Branch: 32 East 57th Street, New York, N.Y. 10022

> 1974 Subscription £9.50 net (U.S.A. and Canada US\$32.00) Single parts £3.50 net (U.S.A. and Canada US\$11.00)

> > Expl Agric.

OVERSEAS ADVISORS

DR. J. A. ANDERSON (Canada)
DR. M. A. A. ANSARI (Pakistan)
DR. M. F. GHANDRARATNE (Ceylon)
DR. K. B. LAL (F.A.O.)

DR. J. MELVILLE (Australia)
DR. A. H. MOSEMAN (United States)
PROFESSOR M. A. NOUR (Sudan)
DR. B. P. PAL (India)

DR. S. J. DU PLESSIS (South Africa)

Experimental Agriculture publishes the results of research on crops, herbage and forage, with the main emphasis on field experiments relevant to husbandry in the warmer climates of the world. It also includes accounts of new experimental techniques, discussions of specific problems met in countries where agricultural production is developing rapidly, review articles on new developments in scientific agriculture, and occasional papers on technical, economic and sociological aspects of farming systems. The journal is the successor to The Empire Journal of Experimental Agriculture.

Experimental Agriculture is published quarterly. Four parts form a volume.

Subscriptions may be sent to any bookseller or subscription agent or direct to Cambridge University Press, P.O. Box 92, London NW1 2DB or in the U.S.A. and Canada to the American branch of the Press, 32 East 57th Street, New York, N.Y. 10022. The 1974 subscription price is £9.50 net (including postage) for a volume (US\$32.00 in the U.S.A. and Canada), payable in advance; separate parts cost £3.50 net or \$11.00 each (plus postage). Second class postage paid at New York, N.Y.

Back Volumes. Inquiries for Vols. 1–32 of The Empire Journal of Experimental Agriculture should be addressed to Wm Dawson & Sons Ltd, Cannon House, Folkestone, Kent. Previously published parts of Experimental Agriculture are available from the London or New York offices of Cambridge University Press.

Cambridge University Press 1974

Permissions. For permission to reproduce material from Experimental Agriculture, please apply to the London or New York office of Cambridge University Press. ISI Tear Service, 325 Chestnut Street, Philadelphia, Pennsylvania 19106, U.S.A., is authorized to supply single copies of separate articles for private use only.

NOTES FOR CONTRIBUTORS

Contributions will be welcomed from scientists of all nationalities, particularly those working in tropical and sub-tropical countries where up-to-date techniques of agricultural experimentation are helping in the rapid development of more modern methods of farm production. Contributions, which must be written in English, should be sent to the Editor, Professor J. P. Hudson, The Spinney, Wrington, Bristol BS18 7LB, England.

Conditions of acceptance. Submission of a paper will be taken to imply that the material has not previously been published, and is not being considered for publication elsewhere. Papers published in *Experimental Agriculture* may not be reprinted or published in translation without permission from the Editor, given on behalf of the Editorial Board.

General lay-out. Before having their manuscripts typed contributors are asked to look carefully at the lay-out of other papers published in a recent number of this journal, to ensure that their own papers, as submitted, conform as closely as possible to the accepted pattern. This very much facilitates the work of the Editor and may often result in a paper being published earlier than if it requires a great deal of detailed editorial attention. Numerical data, which should only be included if they are essential to the argument, can be presented either in the form of tables or diagrams, but should never be shown in both ways. It is not the normal custom of the Journal to publish notes shorter than about 2000 words (4 pages) or longer than about 6000 words (12 pages including illustrations).

Typescripts. A top copy and one carbon copy of the script should be submitted, typed with double spacing, on one side of the paper only and with margins of about 1½ inches at the left-hand side and head of each sheet. Quarto size is preferred to foolscap.

Title. The development of automatic bibliographic methods, based on single-word indexing of the significant words in the title, makes it essential that the title of each paper should contain the maximum of relevant informa-

MALAYSIAN AGRICULTURAL RESEARCH JOURNAL

This Journal is a triannual publication of the results of research and practical experience in the realm of tropical agriculture. Articles contribute information into the research on soils, animal husbandry, agric. economics, agric. engineering, plant science and extension in tropical Malaysia. This journal has been in existence since Jan. 1972.

Contents of last issue Vol. II, No. 2 1973 Dec.

The resistance of 15 rice varieties to Nilaparvata lugens Stal. in Malaysia.

B. L. PARKER, GURCHAN SINGH and LEE YOON NAM

A comparative study of grain yield and some morphophysiological characteristics in six varieties of rice. YAP THOO CHAI, LAI SIN SIANG and POH CHIP TECK

tudies on the padi mushroom (Volvariella volvacea). I. Use of oil palm pericarp waste as an alternative substrate.
YONG YOON CHEN and K. M. GRAHAM

A survey of the quality of some vegetable, spice and cover crop seeds available in Malaysia.

HOR YUE LUAN

Ganoderma root disease of lowland tea (Camellia sinensis) in Malaysia: Some aspects of its biology and control.

G. VARGHESE and P. S. CHEW

Nutritive value of pineapple bran for chicks.
R. I. HUTAGALUNG, B. H. WEBB and SYED JALALUDIN

The role of cekor manis (Sauropus albicans), dietary survey and habits of the rural and urban Malays.

KADER SULTAN BIN HAJI ISMAIL and AMIR ABBAS

The digestibility of pork lard and coconut oil by sheep.

An estimate of the cost, income and profit in the production of different purebreed and crossbreed broilers.

ABDUL WAHID, T. K. MUKHERJEE and SYED JALALUDIN

The response of napier grass (*Pennisetum purpureum*) to fertilizer, irrigation, cut interval, establishment period and height of cut.

R. C. LOCKARD, TAN JIAK CHUAN and D. S. MACLUSKY

Moisture meter calibration procedures for use in rice moisture determination in Malaysia.

B. H. WEBB and KWOK CHEE YAN

Some factors affecting demand for Malaysian palm oil. TAN BOCK THIAM

Research Note

Boron toxicity in oil palm (Elaeis guineensis)
J. A. RAJARATNAM

A simple device for surface treating twigs. B. L. PARKER and E. H. STONE

Subscription rates US\$ 4.00 per copy or US\$ 12.00 per year.

Past copies can also be obtained at the same rate.

Orders to: The Secretary, Malaysian Agricultural Research Journal, Faculty of Agriculture, University of Malaya, Pantai Valley, Kuala Lumpur, Malaysia.

irrigation Design and Practice

Bruce Withers and Stanley Vipond

With the growing world population and the need for more food, irrigation has a vital role to play. In a climate where rainfall does not meet plant water requirements during all or part of the year irrigation is a prerequisite for agriculture.

Ideal for undergraduate and post-graduate irrigation specialisation courses, this welldocumented book provides a useful text for practising engineers specialising in irrigation and for students of agriculture, forestry and ecology.

The chapters include: Feasibility studies; Irrigation practices; The moisture in soils; Crop water use; Saline and alkaline soils; The design of field irrigation systems; The drainage of irrigated lands; Flow measurement; The canal systems; Mechanisation and land preparation for irrigation.

20 b/w photographs 139 line illustrations Cloth £6.00 Paper £2.90



 ${f f BATSFORD}$ 4 Fitzhardinge Street, London WIH OAH

CAMBRIDGE JOURNALS

Experimental Agriculture is one of 48 learned journals published by Cambridge University Press.

The 1974 descriptive catalogue of Cambridge journals with details of back volumes is available from the London and New York offices of the Press.

Cambridge Journals may be ordered from a bookseller or direct from the publishers.

Cambridge University Press

Bentley House, 200 Euston Road, London, NW1 2DB American Branch: 32 East 57th Street

New York, N.Y. 10022

TROPICAL AGRICULTURE

THE JOURNAL OF THE FACULTY OF AGRICULTURE (IMPERIAL COLLEGE OF TROPICAL AGRICULTURE) UNIVERSITY OF THE WEST INDIES

Volume 51, Number 2, April 1974

comprises a Special Issue entirely devoted to

Proceedings of Caribbean and Tropical American Soil Science Conference

held at the University of the West Indies, St. Augustine, Trinidad, in January 1973 to celebrate the 50th anniversary of the formation of the Department of Soil Science

30 papers were presented covering pedology and physics, chemistry and agronomy of soils in Tropical American countries ranging from Mexico to Brazil and in Caribbean islands ranging from Jamaica to Barbados.

Price of this Special Issue only: £3.50 (\$9.10)

Annual subscription: £10.00 (\$26.00 in the U.S.A. and Canada) for four quarterly numbers

Published on behalf of the Faculty by
IPC SCIENCE AND TECHNOLOGY PRESS LIMITED
IPC House, 32 High Street, Guildford, Surrey, GUI 3EW, England