

Introducing...

Experimental Agriculture

Editor: F. G. H. Lupton, OBE, Cambridge

Experimental Agriculture publishes the results of analytical research into the agronomy of crops, particularly the food, forage and industrial crops of the warmer regions of the earth. It is especially concerned with experimental work conducted in the field and is designed to explain agronomic results in biological and environmental terms.

The journal publishes accounts of new methods of experimental crop production and discussions of problems arising from the rapid expansion of agricultural production. Particular emphasis is placed on papers covering Farming Systems and Sustainability in tropical regions.

Recent articles

S. R. HARRISON, P. K. THORNTON AND J. B. DENT: The IBSNAT Project and Agricultural Experimentation in Developing Countries (Farming Systems Series - Number 26)

M. BEZUNEH AND F. J. OLSEN: Response of Beans to Fertilizer and Seed Treatment in Central Province, Zambia

K. C. REDDY, J. VAN DER PLOEG AND I. MAGA: Genotype Effects in Millet/Cowpea Intercropping in the Semi-arid Tropics of Niger

Subscription: Volume 28, 1992: January, April, July and October: £76; £38 for members of the Tropical Agriculture Association; airmail £15 per year extra. ISSN 0014-4797

Please send me further information about *Experimental*⁵⁰⁸⁶¹
Agriculture

Name _____

Address _____

Postcode _____

Journals Marketing Department,
Cambridge University Press,
The Edinburgh Building,
Cambridge CB2 2RU



**CAMBRIDGE
UNIVERSITY PRESS**

Journal of Dairy Research

A quarterly journal covering all aspects of dairy research

Established in 1929 as a medium for the publication of the results of original research in dairy science and cognate subjects, *Journal of Dairy Research* is a leading publication in its field.

Published for the AFRC Food Research Institute and the Hannah Research Institute, *Journal of Dairy Research* publishes original research on all aspects of dairy science. It is an invaluable journal for all those in dairy science – whether you're in scientific research, manufacturing, government or teaching.

Coverage includes:

• Animal husbandry • The physiology and endocrinology of lactation • Milk production, composition, preservation and processing • Biotechnology and food science • Properties of milk proteins and other components • Relevant studies in bacteriology, enzymology and immunology • Dairy products such as cheese, fermented milks and spreads and the use of milk products in other foods.

Recent Articles include...

Somatic cell counts in relation to infection status of the goat udder

D. KALOGRIDOU-VASSILIADOU, K. MANOLKIDIS AND A. TSIGOIDA

Identification of the saturated oxo fatty acids in cheese

E. Y. BRECHANY AND W. W. CHRISTIE

Detection of propionic acid bacteria in cheese

F. D. DRINAN AND T. M. COGAN

Subscription Information

Volume 59, 1992: February, May, August and November: £140; airmail £18.50 per year extra

ISSN 0022-0299

Order Form

Please enter my subscription to:
Journal of Dairy Research (ISSN 0022-0299), Volume 59, 1992 @

£140

airmail £18.50 per year extra

I enclose a cheque (made payable to Cambridge University Press and drawn against a UK bank)

Please invoice me

Please send me a free sample copy (institutions only)

Name _____

Address _____

Send your coupon to: Journals Marketing Department, Cambridge University Press, FREEPOST*, The Edinburgh Building, Cambridge CB2 1BR, UK (*no postage stamp necessary if posted in the UK)

In USA, Canada & Mexico, write to: Cambridge University Press, 40 West 20th Street, New York, NY 10011-4211, USA



CAMBRIDGE
UNIVERSITY PRESS

50862

Copying. No contents may be reproduced by any means without the permission of Cambridge University Press. This journal is registered with the Copyright Clearance Center, 27 Congress Street, Salem, MA 01970. Organizations in the USA who are also registered with the C.C.C. may therefore copy material (beyond the limits permitted by sections 107 and 108 of US copyright law) subject to payment to C.C.C. of the per-copy fee of \$5.00. This consent does not extend to multiple copying for promotional or commercial purposes. Code 0021-8596/92 \$5.00+0.00.

ISI Tear Sheet Service. 3501 Market Street, Philadelphia, PA 19106, USA, is authorized to supply single copies of separate articles for private use only.

For all other use, permission should be sought from Cambridge or the American Branch of Cambridge University Press.

CAMBRIDGE UNIVERSITY PRESS

The Pitt Building, Trumpington Street, Cambridge CB2 1RP
40 West 20th Street, New York, NY 10011-4211, USA
10 Stamford Road, Oakleigh, Victoria 3166, Australia

Printed in Great Britain by the University Press, Cambridge

CONTENTS

	PAGE
Instructions to Authors	
REVIEW	
OWEN, J. B. Genetic aspects of appetite and feed choice in animals	151
CROPS AND SOILS	
MCDUGALL, G. J., GOODMAN, B. A. and CHUDEK, J. A. Nuclear magnetic resonance (NMR) micro-imaging of stems of <i>Linum usitatissimum</i>	157
ESECHIE, H. A. Effect of planting density on growth and yield of irrigated maize (<i>Zea mays</i>) in the Batinah Coast region of Oman	165
SHARMA, A. R. Effect of varying seed rates and transplanting clonal tillers on the performance of rice under intermediate deepwater conditions (0–80 cm)	171
NEWTON, P. C. D. and HAY, M. J. M. Technique for evaluating the potential for growth of shoot and root buds of white clover (<i>Trifolium repens</i>)	179
KALRA, A., RISHI, N., GROVER, R. K. and PAULKHURANA, S. M. Influence of different factors on the reduced susceptibility of potato virus X infected potato leaves to <i>Alternaria solani</i>	185
WHITEHEAD, A. G. and NICHOLS, A. J. F. Control of potato golden cyst-nematode, <i>Globodera rostochiensis</i> , by nematicides applied once or twice in two rotations	191
DIXON, F. L. and LUTMAN, P. J. W. Effects of drilling date on the growth and yield of sunflower (<i>Helianthus annuus</i>) in the UK	197
GOMEZ-CABRERA, A., GARRIDO, A., GUERRERO, J. E. and ORTIZ, V. Nutritive value of the olive leaf: effects of cultivar, season of harvesting and system of drying	205
SILIM, S. N., HEBBLETHWAITE, P. D. and JONES, C. Irrigation and water use in leafless peas (<i>Pisum sativum</i>)	211
WATSON, C. J., STEVENS, R. J., LAUGHLIN, R. J. and POLAND, P. Volatilization of ammonia from solid and liquid urea surface-applied to perennial ryegrass	223
ANIMALS	
KENNEDY, P. M., MCSWEENEY, C. S., FFOULKES, D., JOHN, A., SCHLINK, A. C., LEFEUVRE, R. P. and KERR, J. D. Intake and digestion in swamp buffaloes and cattle. 1. The digestion of rice straw (<i>Oryza sativa</i>)	227
KENNEDY, P. M., BONIFACE, A. N., LIANG, Z. J., MULLER, D. and MURRAY, R. M. Intake and digestion in swamp buffaloes and cattle. 2. The comparative response to urea supplements in animals fed tropical grasses	243
ABDULLAH, N., NOLAN, J. V., MAHYUDDIN, M. and JALALUDIN, S. Digestion and nitrogen conservation in cattle and buffaloes given rice straw with or without molasses	255
TERRILL, T. H., DOUGLAS, G. B., FOOTE, A. G., PURCHAS, R. W., WILSON, G. F. and BARRY, T. N. Effect of condensed tannins upon body growth, wool growth and rumen metabolism in sheep grazing sulla (<i>Hedysarum coronarium</i>) and perennial pasture	265
NEWMAN, J. A., PARSONS, A. J. and HARVEY, A. Not all sheep prefer clover: diet selection revisited	275
BOOK REVIEWS	285