

	PAGE
MARSHALL, C. and BOYD, W. J. R. A comparison of the growth and development of biculm wheat lines with freely tillering cultivars	163
SMITH, M. A. and WHITEMAN, P. C. Animal production from rotationally-grazed natural and sown pastures under coconuts at three stocking rates in the Solomon Islands	173
SMITH, M. A. and WHITEMAN, P. C. Grazing studies on the Guadalcanal Plains, Solomon Islands. 3. Comparison of existing mixtures with koronivia (<i>Brachiara humidicola</i>) and with natural pastures	181
GUTTERIDGE, R. C. The productivity of native grasslands oversown with legumes and grazed at five stocking rates in north-east Thailand	191
RAI, R., NASAR, S. K. T., SINGH, S. J. and PRASAD, V. Interactions between <i>Rhizobium</i> strains and lentil (<i>Lens culinaris</i> Linn.) genotypes under salt stress	199
RAI, R. Studies on associative nitrogen fixation by antibiotic-resistant mutants of <i>Azospirillum brasilense</i> with genotypes of lentil (<i>Lens culinaris</i>) <i>Rhizobium</i> strains in calcareous soil	207
SENGUPTA, K., BHATTACHARYYA, K. K. and CHATTERJEE, B. N. Intercropping of upland rice with blackgram [<i>Vigna mungo</i> (L.)]	217
SHORT NOTES	
SPARLING, G. P. and BERROW, M. L. Effect of airdrying, γ -irradiation and chloroform fumigation of soil on extractability of trace elements	223
ALLINSON, D. W., SPEER, G. S., TAYLOR, R. W. and GUILLARD, K. Nutritional characteristics of kura clover (<i>Trifolium ambiguum</i> Bieb.) compared with other forage legumes	227
ALHASSAN, W. S., BUVANENDRAN, V. and EHOICHE, O. W. Seasonal influences on milk production in Friesian-Bunaji crosses in northern Nigeria	231
GREEN, C. F. and IVINS, J. D. Time of sowing and the yield of winter wheat	235
WEDGWOOD, R. B. Some effects of type and rate of application of N fertilizer, and stage of growth at which it was applied, to winter wheat on a Gault Clay soil	239
TAYO, T. O. The effect of ridging on the performance of pigeon pea (<i>Cajanus cajan</i> (L.) Millsp.) in the lowland tropics	243
RAY, P. K. and SHARMA, S. B. Viability of <i>Litchi chinensis</i> seeds when stored in air and water	247
SARKAR, A. K. and DEB, D. L. Fate of fertilizer zinc in a black soil (Vertisol)	249
OSINOWO, O. A. and EKPE, GRACE, A. Post-partum intervals to oestrus and conception in Yankasa sheep	253

THE JOURNAL OF AGRICULTURAL SCIENCE

CONTENTS

Vol. 104 Part 1 February 1985

	PAGE
KENNEDY, S. J., GARDINER, S. J., GILLILAND, T. J. and CAMLIN, M. S. The use of electrophoretic techniques to distinguish perennial ryegrass cultivars when sown in mixtures	1
TUDOR, G. D., MCGUIGAN, K. R. and NORTON, B. W. The effects of three protein sources on the growth and feed utilization of cattle fed cassava	11
DAHIYA, I. S., GREWAL, K. S., ANLAUF, R. and RICHTER, J. Desalinization of a salt-affected soil in plots of various sizes under two modes of water application	19
ABOUL-NAGA, A. M., ABOUL-ELA, M. B. and HASSAN, F. Oestrous activity of Suffolk, Mutton Merino and their crosses with subtropical Ossimi sheep	27
SILIM, S. N., HEBBLETHWAITE, P. D. and HEATH, M. C. Comparison of the effects of autumn and spring sowing date on growth and yield of combining peas (<i>Pisum sativum</i> L.)	35
ASIEDU, F. H. K. and KARIKARI, S. K. Energy and protein content and intake by stall-fed lambs of pure and mixed swards of <i>Centrosema pubescens</i> Benth., <i>Pueraria phaseoloides</i> Benth. and <i>Brachiaria mutica</i> Stapf. under a mango plantation	47
BA-ANGOOD, S. A. and HUBAISHAN, M. A. Effect of sowing date and cultivars of sorghum on infestation by <i>Atherigona yorki</i> , <i>Sesamia cretica</i> and <i>Chilo partellus</i> in Yemen	61
PRAKASA RAO, E. V. S., SINGH, MUNNU, GANESHA RAO, R. S. and RAJESWARA RAO, B. R. Effect of plant spacing and application of nitrogen fertilizer on herb and essential oil yields of palmarosa (<i>Cymbopogon martini</i> Stapf. var. <i>motia</i>)	67
DURRANT, M. J., BROWN, S. J. and BOULD, A. The assessment of the quality of sugar-beet seed	71
LARGE, R. V., COBBY, J. M. and BAKER, R. D. The design and conduct of experiments to measure animal and herbage production responses to fertilizer nitrogen under cutting and grazing managements	85
NARWAL, S. S. and MALIK, D. S. Response of sunflower cultivars to plant density and nitrogen	95
SEKHON, H. S. and SINGH, M. Effect of growth regulators and nitrogen on the growth, number and size of seed tubers and yield of potatoes	99
COLBORNE, G. J. N. and STAINES, S. J. Soil erosion in south Somerset	107
WILLIAMS, P. C. and CORDEIRO, HELENA M. Effect of calibration practice on correction of errors induced in near-infrared protein testing of hard red spring wheat by growing location and season	113
CHANEY, K., HODGSON, D. R. and BRAIM, M. A. The effects of direct drilling, shallow cultivation and ploughing on some soil physical properties in a long-term experiment on spring barley	125
PREW, R. D., CHURCH, B. M., DEWAR, A. M., LACEY, J., MAGAN, N., PENNY, A., PLUMB, R. T., THORNE, GILLIAN N., TODD, A. D. and WILLIAMS, T. D. Some factors limiting the growth and yield of winter wheat and their variation in two seasons	135

Continued on inside back cover

© Cambridge University Press 1985

COPYING. This journal is registered with the Copyright Clearance Center, 21 Congress Street, Salem, Mass. 01970. Organizations in the USA who are also registered with 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 \$05.00. This consent does not extend to multiple copying for promotional or commercial purposes. Code 0021-8596/85/2828-0001 \$05.00.

ISI Tear Service, 3501 Market Street, Philadelphia, Pennsylvania 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 New York offices of Cambridge University Press. 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.

Printed in Great Britain at the University Press, Cambridge