Continued from back page

| | PAGE |
|---|------|
| AHLAWAT, I. P. S. and SARAF, C. S. Response of pigeon pea (Cajanus cajan (L.) Millsp.) to plant density and phosphorus fertilizer under dryland conditions | 119 |
| Lucas, E.O. The growth of two maize varieties in farmers' plots located at two contiguous ecological zones in Nigeria | 125 |
| DHILLON, G. S. and KLER, D. S. Relation of shape of canopy to interception of radiation and yield of wheat | 135 |
| DAVIDSON, J., McFadyen, Morag and Milne, E. The nutritive value of the forage pea Pisum arvense cv. 'Rosakrone' for laying hens | 143 |
| TRIGG, T. E. and TOPPS, J. H. Composition of body-weight change during lactation in Hereford × British Friesian cows | 147 |
| Last, P. J., Draycott, A. P. and Webb, D. J. Effect of green manures on yield and nitrogen requirement of sugar beet | 159 |
| WILCOCKSON, S. J. and Scott, R. K. A comparison of herbicide-treated and handweeded sugar beet | 171 |
| RAHMAN, M. M. Yield potential of heterozygous seedling lethal mutants of barley (Hordeum vulgare L.) | 183 |
| SCARISBRICK, D. H., DANIELS, R. W. and ALCOCK, MARY. The effect of sowing date on the yield and yield components of spring oil-seed rape | 189 |
| Hundal, H. S., Arora, B. R. and Sekhon, G. S. Efficiency of nitric phosphates and Mussoorie rock phosphate in three cycles of clusterbean-wheat and groundnut-wheat rotations . | 197 |
| ABDALLAH, O. Y., SHAHIN, KARIMA A. and LATIF, M. G. A. Growth and development of water buffalo and Friesian cross-bred cattle, with special reference to body and carcass composition | 205 |
| CHAMBERLAIN, A. G. and CLARKE, S. H. Copper deficiency of sheep in eastern Saudi Arabia. | 213 |
| Wanyoike, Margaret M. and Holmes, W. The effects of winter nutrition on the subsequent live-weight performance and intake of herbage by beef cattle | 221 |
| SHORT NOTES | |
| CLOUGHLEY, J. B. Effect of some field variables on the dry-matter content of tea shoots. | 227 |
| SRISKANDARAJAH, N., KELLAWAY, R. C. and LEIBHOLZ, JANE. Retention times in the rumen of roughages and a protein supplement | 231 |
| SINHA, S. K., AGGARWAL, P. K., CHATURVEDI, G. S., KOUNDAL, K. R. and KHANNA-CHOPRA, R. A comparison of physiological and yield characters in old and new wheat varieties. | 233 |
| SANORIA, C. L. and MALLIK, M. K. The effect of seed inoculation with Rhizobium and Azotobacter | 237 |

THE JOURNAL OF AGRICULTURAL SCIENCE

CONTENTS

Vol. 97 Part 1 August 1981

| | PAGE |
|---|------|
| KAISER, A. G., TAYLER, J. C., GIBBS, B. G. and ENGLAND, P. The effects of the quantity of formaldehyde applied at ensiling and of urea supplementation at feeding on the utilization of red clover silages by young growing cattle | 1 |
| McDonald, R. C., Manley, T. R., Barry, T. N., Forss, D. A. and Sinclair, A. G. Nutritional evaluation of kale (<i>Brassica oleracea</i>) diets. 3. Changes in plant composition induced by soil fertility practices, with special reference to SMCO and glucosinolate concentrations. | 13 |
| DOWKER, B. D. and FENNELL, J. F. M. The relative performance of inbreds and open-pollinated populations of spring-sown onions | 25 |
| Bass, Jean M., Hemingway, R. G., Fishwick, G. and Parkins, J. J. The voluntary intake of oat straw by adult cattle as affected by the method of dietary presentation of a concentrated solution of urea, minerals and vitamins | 31 |
| BASS, J. J., JOHNSON, D. L., COLOMER-ROCHER, F. and BINKS, G. Prediction of carcass composition from carcass conformation in cattle | 37 |
| KHALIFA, F. M. Some factors influencing the development of sunflower (<i>Helianthus annuus</i> L.) under dry-farming systems in Sudan | 45 |
| CHAPMAN, ELIZABETH A. Methods of analysing yield from trials in which the produce is graded according to diameter | 55 |
| McKenzie, R. A., Blaney, B. J. and Gartner, R. J. W. The effect of dietary oxalate on calcium, phosphorus and magnesium balances in horses | 69 |
| CHAUHAN, R. P. S. and ASTHANA, A. K. Tolerance of lentil, barley and oats to boron in irrigation water | 75 |
| AGBIM, N. N. Interactions of phosphorus, magnesium and zinc affecting the iron content of maize | 79 |
| SKIPITARIS, C. N. Potentialities of producing lean meat by restricting both energy intake and water consumption of pigs | 83 |
| SALEH, M. S., GAABOUB, I. A. and KASSEM, SH. M. I. Larvicidal effectiveness of three controlled-release formulations of Dursban and Dimilin on Culex pipiens L. and Aedes aegypti (L.). | 87 |
| Andrews, A. H. The relationship of bovine rostral tooth development to age determined by post-mortem radiographic examination of cattle aged between 12 and 24 months | 97 |
| SINGH, A., PRASAD, R. and SARAF, C. S. Effects of plant type, plant population density and application of phosphate fertilizer on growth and yield of pigeon pea | 103 |
| STARR, CAROL, MORGAN, A. G. and SMITH, D. B. An evaluation of near infra-red reflectance analysis in some plant breeding programmes | 107 |

Continued on inside back cover

Cambridge University Press 1981

SUBSCRIPTIONS. Two volumes of three parts are published annually. All orders must be accompanied by payment. The subscription price of volumes 96 and 97, 1981, is £39.50 net (U.S.A. and Canada US \$117.50) per volume (post free); single parts are available at £15.50 net (U.S.A. and Canada US \$46.00) plus postage. Orders or enquiries may be sent to any bookseller or subscription agent, or Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge CB2 2RU (U.S.A. and Canada, Cambridge University Press, 32 East 57th Street, New York, N.Y. 10022, U.S.A.).