THE JOURNAL OF AGRICULTURAL SCIENCE

CONTENTS

Vol. 72 Part 2 April 1969

	PAGE
Jackson, J. E. Cotton crop environment, growth and yield in the Sudan Gezira. I. The Gezira observation plots: experimental design, cultural methods and yield analysis. (With 3 Text-figures)	159
JACKSON, J. E. Cotton crop environment, growth and yield in the Sudan Gezira. II. The causes of variation in yield from year to year. (With 7 Text-figures)	169
Eddowes, Maurice. Physiological studies of competition in Zea mays L. I. Vegetative growth and ear development in maize. (With 4 Text-figures)	185
EDDOWES, MAURICE. Physiological studies of competition in Zea mays L. II. Effect of competition among maize plants. (With 3 Text-figures)	195
EDDOWES, MAURICE. Physiological studies of competition in Zea mays L. III. Competition in maize and its practical implications for forage maize production. (With 5 Text-figures)	203
Davis, R. H. and Lewis, D. The digestibility of fats differing in glyceride structure and their effects on growth performance and carcass composition of bacon pigs	217
Greenhalgh, J. F. D. and Reid, G. W. The effects of grazing intensity on herbage consumption and animal production. III. Dairy cows grazed at two intensities on clean or contaminated pasture .	223
Broster, W. H., Broster, Valerie, J. and Smith, T. Experiments on the nutrition of the dairy heifer. VIII. Effect on milk production of level of feeding at two stages of the lactation. (With 3 Text-figures)	229
SHIMIZU, HIROKAZU and TAKEUCHI, SABURO. Effect of early weaning at about 30 days after farrowing on the reproductive characteristics in gilts and sows	247
COOMBE, J. B. and PRESTON, G. K. The effect of urea on the utilization of ground, pelleted roughage by penned sheep. I. Food intake, live-weight change and wool growth. (With 1 Text-figure)	251
COOMBE, J. B. and CHRISTIAN K. R. The effect of urea on the utilization of ground, pelleted roughage by penned sheep. II. Utilization of organic matter, nitrogen and minerals	261
EAGLES, C. F. and WILLIAMS, D. H. Effect of environment on competitive ability of two natural populations of Dactylis glomerata L.	271
Bremner, P. M. Effects of time and rate of nitrogen application on tillering, 'sharp eyespot' (<i>Rhizoctonia solani</i>) and yield in winter wheat. (With 3 Text-figures)	273
Bremner, P. M. Growth and yield of three varieties of wheat, with particular reference to the influence of unproductive tillers. (With 4 Text-figures)	281
GARRIGUS, R. R., JOHNSON, H. R., THOMAS, N. W., FIRTH, N. L., HARRINGTON, R. B. and JUDGE, M. D. Dietary effects on beef composition. I. Quantitative and qualitative carcass traits. (With 2 Text-figures)	289
Johnson, H. R., Garrigus, R. R., Howard, R. D., Firth, N. L., Harrington, R. B. and Judge, M. D. Dietary effects on beef composition. II. Quantity and distribution of fat. (With 1 Text-figure)	297
Judge, M. D., Firth, N. L., Johnson, H. R., Kessler, W. V., Harrington, R. B. and Garrigus, R. R. Dietary effects on beef composition. III. Weight, composition and potassium-40 content of fat-free muscles. (With 1 Text-figure)	303
JENKINS, G. Grain quality in hybrids of Avena sativa L. and A. byzantina C. Koch. (With 1 Text-figure).	311
DRAYCOTT, A. P. and DURRANT, M. J. The effects of magnesium fertilizers on yield and chemical composition of sugar beet. (With 2 Text-figures)	319
Dewar, W. A. A method for pelleting small amounts of purified diets	325
Dror, Y. and Bondi, A. Utilization of surplus protein by sheep. (With 2 Text-figures).	327
CAWSE, P. A. and WHITE, T. Accumulation of nitrate in fresh soils after gamma irradiation	331
CAWSE, F. A. and White, F. Accumulation of intrace in fresh soils after gaining friedlation	221

Subscriptions. Two volumes of three parts are published annually. The subscription price is £4 10s. net (U.S.A. \$14.50) per volume (post free); single parts are available at 40s. net (U.S.A. \$6.00) plus postage. Orders or enquiries may be sent to any bookseller or subscription agent, or to Cambridge University Press, P.O. Box 92, London, N.W. 1. (U.S.A. and Canada, Cambridge University Press American Branch, 32 East 57th Street, New York, N.Y. 10022, U.S.A.)