THE JOURNAL OF AGRICULTURAL SCIENCE

CONTENTS

Vol. 71 Part 2 October 1968

	PAGE
O'DONOVAN, P. B. Urea supplementation of roughage-based diets for cattle. (With 4 Text-figures)	137
FORBES, T. J. and WALKER, N. The utilization of wet feed by bacon pigs with special reference to pipe-line feeding	145
FOSTER, W. H. Variation between and within birds in the estimation of the metabolizable energy content of diets for laying hens	153
GUNN, R. G. Levels of first winter feeding in relation to performance of Cheviot Hill ewes. VI. Life-time production from the hill. (With 1 Text-figure)	161
LANGLANDS, J. P. The feed intake of grazing sheep differing in age, breed, previous nutrition and live weight	167
PAQUAY, R., LOMBA, F., LOUSSE, A. and BIENFET, V. Statistical research on the fate of dietary mineral elements in dry and lactating cows. I. Calcium. (With 1 Text-figure)	173
LOMBA, F., PAQUAY, R., BIENFET, V. and LOUSSE, A. Statistical research on the fate of dietary mineral elements in dry and lactating cows. II. Magnesium. (With 2 Text-figures)	181
LEAT, W. M. F. and HALL, J. G. Lipid composition of lymph and blood plasma of the cow .	189
HODGSON, D. R. and DRAYCOTT, A. P. Aqueous ammonia compared with other nitrogenous fertilizers as solids and solutions on grass	195
LE RICHE, H. H. Metal contamination of soil in the Woburn Market-Garden experiment resulting from the application of sewage sludge	205
OJEHOMON, O. O., RATHJEN, A. S. and MORGAN, D. G. Effects of day length on the morphology and flowering of five determinate varieties of <i>Phaseolus vulgaris</i> L. (With 7 Text-figures)	209
ELSLEY, F. W. H., MACPHERSON, R. M. and McDonald, I. The influence of intake of dietary energy in pregnancy and lactation upon sow productivity. (With 2 Text-figures)	215
Norrington-Davies, J. Diallel analysis of competition between grass species. (With 1 Text-figure)	223
ELLIS DAVIES, W., THOMAS, T. A. and YOUNG, NORMAN R. The assessment of herbage legume varieties. III. Annual variation in chemical composition of eight varieties. (With 2 Text-	222
figures)	233
GASSER, J. K. R. and HAMLYN, F. G. The effects on winter wheat of ammonium sulphate, with and without a nitrification inhibitor, and of calcium nitrate. (With 2 Text-figures).	243
Russell, G. E. Experiments in selecting for resistance to downy mildew in sugar beet	251
RUTTER, N. Time lapse photographic studies of livestock behaviour outdoors on the College Farm, Aberystwyth. (With 9 Text-figures)	257
NEUMARK, H. and TADMOR, A. The effect of histamine combined with formic or acetic acid on food intake and rumen motility, when infused into the omasum of a ram	267
BRAUDE, R. and ROWELL, J. G. Effects of simplifying feeding methods for growing pigs by using a single ration throughout and by providing cereal and supplement components unmixed	271
SRIVASTAVA, P. N. and RAZA NASIR, M. M. Some biochemical aspects of the preservation of buffalo semen	277

SUBSCRIPTIONS. Two volumes of three parts are published annually. The subscription price is £4. 10s. net (U.S.A. \$16.00) 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, Bentley House, 200 Euston Road, 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.)