CONTENTS

	PAGE
SHORLAND, F. B., BARTON, R. A. and RAE, A. L. Variations in the iodine values of fats from the fatty, muscular and bone tissues of mature Romney ewes	1
HENDERSON, J. L., EDWARDS, R. S. and HAMMERTON, J. L. The productivity of five grass species at six levels of compound fertilizer application. I. Dry-matter production. (With Six Text-figures)	5
DENT, J. W. and HAWKINS, R. P. The effect of fertilizers on the yield of red clover seed	13
LAMBERT, D. A. A study of growth in swards of timothy and meadow fescue. III. The effect of two levels of nitrogen under two cutting treatments. (With Four Text-figures)	25
NORMAN, C., JOHNSON, C. E., PORTERFIELD, I. D., GOLDBERG, E., DUNBAR, R. S., Jr., MIN, H. S. and DUNN, H. O. Survival and fertility of bovine sperm kept at variable temperatures in coconut milk extender. (With One Text-figure)	33
DUCKWORTH, J., the late, BENZIE, D., CRESSWELL, E., BOYNE, A. W. and HILL, R. Studies of the skeleton of the sheep. VII. A further comparison of skeletal resorption during pregnancy and lactation in ewes fed diets differing in digestible crude-protein value. (With One Text-figure)	41
DUCKWORTH, J., the late, BENZIE, D., CRESSWELL, E., HILL, R. and BOYNE, A. W. Studies of the skeleton of the sheep. VIII. Studies of the effects of protein and energy intake on productivity and skeletal mineralization in the pregnant and lactating ewe	45
LAZENBY, ALEC and ROGERS, H. A. Selection criteria in grass breeding. I. (With Five Text-figures). Statistical appendix by CAMPBELL, R. C. (With Three Text-figures)	51
FORD, E. J. H. The effect of dietary restriction on some liver constituents of sheep during late pregnancy and early lactation. (With Nine Text-figures)	67
GILCHRIST, F. M. C. and KISTNER, A. Bacteria of the ovine rumen. I. The composition of the population on a diet of poor teff hay. (With One Text-figure)	77
KISTNER, A., GOUWS, L. and GILCHRIST, F. M. C. Bacteria of the ovine rumen. II. The functional groups fermenting carbohydrates and lactate on a diet of lucerne (<i>Medicago sativa</i>) hay	85
MORAN, T. and PACE, J. A note on the amino acid composition of the protein in heather shoots	93
GREENHALGH, J. F. D. and RUNCIE, K. V. The herbage intake and milk production of strip- and zero-grazed dairy cows. (With One Text-figure)	95
Tribe, D. E. and Seebeck, R. M. Effect of live-weight and live-weight change on the lambing performance of ewes. (With Three Text-figures)	105
SMITH, C. A. Tropical grass/legume pastures in Northern Rhodesia. (With One Plate and One Textfigure)	111
LAMPKIN, G. H. and QUARTERMAIN, J. Observations on the grazing habits of Grade and Zebu cattle. II. Their behaviour under favourable conditions in the tropics	119
COOMBE, J. B. and TRIBE, D. E. The feeding of urea supplements to sheep and cattle: the results of penned feeding and grazing experiments	125

The Journal of Agricultural Science is issued every other month in parts of about 136 pages with plates and figures, three parts constituting a volume. Two volumes yearly.

Quotations for available back volumes and parts may be obtained on application to the Cambridge University Press.

Papers for publication should be typewritten or written in a very legible hand, and may be sent to Sir John Hammond, School of Agriculture, Cambridge, or to the associate Editors. Other communications should be addressed to the University Press, Cambridge.

If Plates in excess of one per 24 pages of text or coloured plates are submitted the author may be asked to bear the cost of such Plates.

The lettering on text figures should be clear of the illustration and indicating by blue pencilled lines the desired position.

Bibliography should be given under the heading of 'References' in the following form:

Surname of authors (in alphabetical order), initials, date of publication (in brackets), title of Journal (abbreviated according to the World List of Scientific Periodicals), volume and page of reference. In the text a reference should be quoted by the author's name and date (in brackets).

All names of Journals and books are set in italics; they should be indicated on the typescript by underlining. Contributors will receive twenty-five copies of their papers free.

The subscription price, payable in advance, is 60s. net per volume (post free); single numbers 25s. net. Subscriptions may be sent to any bookseller, or to The Cambridge University Press, Bentley House, 200 Euston Road, London, N.W. 1.

Subscription price in the U.S.A. is \$11.50 per volume; single number \$4.25. Enquiries should be addressed to the Cambridge University Press, American Branch, 32 East 57th Street, New York 22, N.Y.