

EXPERIMENTAL AGRICULTURE

Contents Volume 2, No. 1, January 1966

- J. L. Monteith.** The Photosynthesis and Transpiration of Crops.
- O. L. Oke.** Nitrogen Fixing Capacity of *Mucuna utilis*.
- Peter A. Huxley and Alexander Turk.** Factors which affect the Germination of Seeds of Six Common East Africa Weeds.
- G. L. Mabey and R. Rose Innes.** Studies on Browse Plants in Ghana. II. Digestibility. (c) Digestibility of *Antiaris africana* from the Accra Plains, Using Local Cattle as Experimental Animals.
- Th. Y. Bredero.** Fertilizer Responses in Swamp Rice (*Oryza sativa* L.) in Northern Nigeria.
- G. P. Tewari.** Effect of Planting-Date on Nodulation and Dry-matter Yield of Cowpea in Nigeria.
- Book Review.** Soils—Their Chemistry and Fertility in Tropical Asia. R. V. Tamhane *et al.*
- P. Brown.** Maize Growing in Nyasaland (Malawi). II. Fertilizer Requirements.
- A. Blum.** The Influence of Plant Density on the Morphological Characters and Seed Production of Common Vetch (*Vicia sativa* L.).
- G. Berry, T. J. Cleaver, J. A. Nelder and P. J. Salter.** Methods of Recording Data in the Laboratory and Field.

Experimental Agriculture is a quarterly journal published by Cambridge University Press. It is the successor to *The Empire Journal of Experimental Agriculture*.

The subscription price is £3. 15s. (U.S.A. \$13.50) including postage; single parts are available at £1. 5s. each (U.S.A. \$4.50). Orders may be sent to any bookseller or subscription agent, or direct to Cambridge University Press.

CAMBRIDGE UNIVERSITY PRESS

Bentley House, 200 Euston Road, London, N.W. 1

American Branch: 32 East 57th Street, New York, N.Y. 10022, U.S.A.

CONTENTS

	PAGE
Acknowledgement—Retirement of Sir Bernard Keen, D.Sc., F.R.S.	153
BURNS, MARCA. Merino birthcoat fibre types and their follicular origin. (With Two Plates)	155
MURRAY, D. M. A comparison of cutaneous evaporation rates in cattle exposed to heat in a climate laboratory and in the field. (With One Text-figure)	175
HANBURY, L. F. and MAUGHAN, G. L. Trials with monogerm seed for the mechanization of spring work in sugar beet	181
HANBURY, L. F. and MAUGHAN, G. L. Machine thinning of sugar beet: field trials with chemical and mechanical weed control	189
BINGHAM, J. and WHITMORE, E. T. Varietal differences in wheat in resistance to germination in the ear and α -amylase content of the grain	197
WHITELAW, ANTHEA W. W., ELSLEY, F. W. H., JONES, A. S. and BOYNE, A. W. The effect of protein level in creep feed on the growth rate and body composition of sucking pigs. (With One Text-figure)	203
GRIMES, R. C. An estimate of the energy required for maintenance and live-weight gain by young grazing sheep	211
HADJIPIERIS, G. and HOLMES, W. Studies on feed intake and feed utilization by sheep. I. The voluntary feed intake of dry, pregnant and lactating ewes	217
ROBERTS, H. M. The seed productivity of perennial rye-grass varieties. (With Two Text-figures)	225
TOPPES, J. H., REED, W. D. C. and ELLIOTT, R. C. Studies of the metabolism of cattle given high concentrate diets. (With One Text-figure)	233
BREMNER, P. M. and TAHA, M. A. Studies in potato agronomy. I. The effects of variety, seed size and spacing on growth, development and yield. (With Six Text-figures)	241
BREMNER, P. M. and RADLEY, R. W. Studies in potato agronomy. II. The effects of variety and time of planting on growth, development and yield. (With Seven Text-figures)	253
HAMILTON, HERMAN A., DERMINE, P. P. and HIDIROGLOU, M. Effect of seasonal temperature on the yield and chemical composition of a lucerne-timothy mixture	263
BEVERIDGE, J. L. The effects of delayed planting and soil consolidation on potato yields	271
GREENHALGH, J. F. D., REID, G. W. and McDONALD, I. The indirect estimation of the digestibility of pasture herbage. IV. Regressions of digestibility on faecal nitrogen concentration: effects of different fractions of the herbage upon within and between-period regressions. (With Two Text-figures)	277
CHRISTIAN, K. R. and WILLIAMS, V. J. Rumen fermentation of herbage in sheep receiving carbohydrate supplements. (With Five Text-figures)	285
SMITH, I. D. The onset of the breeding season in Southdown ewes in subtropical Australia	295

The Journal of Agricultural Science is issued every other month in parts of about 150 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 Dr G. D. H. BELL, Plant Breeding Institute, Maris Lane, Trumpington, 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 in the form 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 75s. net per volume (post free); single numbers 32s. 6d. 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 \$13.50 per volume; single numbers \$5.50. Enquiries should be addressed to the Cambridge University Press, American Branch, 32 East 57th Street, New York, N.Y. 10022.