Summary: Every article should have a short summary complete in itself and understandable without reference to the paper.

References: Only papers closely related to the author's work should be referred to; exhaustive lists should be avoided. Bibliographical details should be in the following order: author's name, initials, year, title of paper, title of journal (abbreviated according to the World List of Scientific Periodicals), volume of journal, first page of paper. References should be listed in alphabetical order.

Examples:

- DONALD, H. P., & PURSER, A. F., 1956. Competition in utero between twin lambs. J. agric. Sci., 48: 245.
- HAMMOND, J., 1932. Growth and the Development of Mutton Qualities in the Sheep. Oliver & Boyd, Edinburgh.

In the text, references should be made by giving author and year; papers with more than three authors should be referred to as, for example, Hammond *et al.*; three or fewer authors should be written in full.

Proofs are supplied once in galley form and must be returned corrected to the Editors within seven days. Only minor corrections will be accepted; other alterations (apart from those due to printer's errors) will be charged to authors.

Reprints: Twenty-five reprints of each paper will be supplied free to authors on request. Further copies may be purchased if the order is sent at the galley proof stage.

Animal Production is published three times a year, each number consisting of about 96 pages. Annual subscription for every 3 numbers is 45s. (or \$7.50 in the U.S.A. and Canada) and the price for a single number is 17s. 6d. (or \$2.75).

Business matters, including regular subscriptions and sales (the current Journal, back numbers, the Proceedings of the British Society of Animal Production (predecessor to Animal Production), and reprints), should be addressed to Messrs. Oliver & Boyd Ltd., Tweeddale Court, 14 High Street, Edinburgh, 1.

Editors: GERALD WIENER, A.R.C. Animal Breeding Research Organisation. J. F. D. GREENHALGH, Rowett Research Institute.

Front cover centrepiece: From rock painting (about 4000 B.C.) at Tassili (Sahara desert)

CONTENTS

	PAGE
CORBETT, J. L., LANGLANDS, J. P., and REID, G. W. Effects of season of growth and of digestibility of herbage on intake by grazing dairy cows.	119
WHITELAW, F. G., and PRESTON, T. R. The nutrition of the early-weaned calf. III. Protein solubility and amino acid composition as factors affecting protein utilisation .	131
PRESTON, T. R., WHITELAW, F. G., and MACLEOD, N. A. The nutrition of the early-weaned calf. IV. Ruminal ammonia formation from soluble and insoluble protein sources	147
SEARLE, S. R. Herd-by-cow interaction effects in dairy production records	157
O'CONNOR, L. K., and HODGES, J. Wastage and culling in dairy herds	165
GIBSON, D., and WATSON, J. H. A comparison of growth rate in twin cattle of eight breeds and crosses.	175
HUNTER, R. F., and DAVIES, G. E. The effect of method of rearing on the social behaviour of Scottish Blackface hoggets.	183
WHITE, N., and HOLMES, W. A comparison of two methods of beef production with Sussex-Ayrshire crosses	195
SMITH, W. C., ADAM, J. L., and TONKS, H. M. The supplementa- tion of pig diets with oleandomycin .	201
WATSON, J. H. Inbreeding arising through artificial insemination and natural service in Welsh black cattle	209
PROCEEDINGS OF THE 38TH MEETING OF THE BRITISH SOCIETY OF ANIMAL PRODUCTION, LONDON, 27-28 MARCH 1963	215

COPYRIGHT © 1963 THE BRITISH SOCIETY OF ANIMAL PRODUCTION Printed and Published in Great Britain by OLIVER AND BOYD LTD. Edinburgh: Tweeddale Court London: 39A Welbeck Street, W.1