Illustrations. The same material should not normally be presented in tables and figures. Legends should be typed on a separate sheet.

- (a) Diagrams should be drawn in Indian ink, about twice the size of the finished block, on Bristol board, stout tracing paper or plastic film. Photographed diagrams are also accepted. Lettering inside the framework of the diagram should be avoided as far as possible but if unavoidable it should be included on a fly-leaf. Marginal lettering should be inserted lightly in pencil on the original diagram or on a fly-leaf.
- (b) Photographs intended for half-tone reproduction should be on glossy paper. They will be accepted only if found necessary by the Editors.
- (c) Colour plates are unlikely to be accepted unless authors bear the cost.

Tables should be as simple and as few as possible. Each table should be typed on a separate sheet.

Abstract. Every paper should have a short abstract (not more than 250 words) complete in itself and understandable without reference to the paper. The abstract will be printed at the beginning of the paper. An abstract is not required for a note.

References. Only papers closely related to the author's work should be referred to; exhaustive lists should be avoided. The arrangement of references should be as in recent papers in *Animal Production*; details are given in the notes for guidance.

Proofs are supplied once and must be returned corrected to the Editors within 3 days. Only essential corrections should be made.

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 proof-stage. Reprints are not supplied for notes.

Animal Production is published six times a year in two volumes. Annual subscription is £78.00 (or \$145.00 in the USA and Canada) and the price for a single part is £12.00 (or \$25.00) net.

Proceedings of the British Society of Animal Production (New Series) ceased publication in 1975 and the material is now published as a separate section in the June issue of Animal Production.

Correspondence regarding subscriptions and sales (current and back numbers of the Journal and the Proceedings), should be addressed to: Scottish Academic Press Ltd, 33 Montgomery Street, Edinburgh, Scotland EH7 5JX.

Other enquiries, including those concerning copyright, should be addressed to: Durrant Periodicals, Winton Lea, Pencaitland, East Lothian, Scotland EH34 5AY.

Senior Editor

T. L. J. Lawrence, University of Liverpool

Editors

- R. C. Campling, Wye College, University of London
- M. F. Fuller, Rowett Research Institute
- W. Haresign, University of Nottingham
- C. L. Johnson, University of Leeds
- A. J. Kempster, Meat and Livestock Commission
- J. C. McCarthy, University College, Dublin
- R. Thompson, Animal Breeding Research Organisation
- A. J. F. Webster, University of Bristol

Technical Editors

Hilary Davies

Marie C. Pitkethly

CONTENTS PAGE

TREACHER, R. J., REID, I. M. and ROBERTS, C. J. Effect of body condition at	1
calving on the health and performance of dairy cows	1
REID, I. M., ROBERTS, C. J., TREACHER, R. J. and WILLIAMS, L. A. Effect of	
body condition at calving on tissue mobilization, development of fatty	_
liver and blood chemistry of dairy cows	7
TAYLOR, W. and LEAVER, J. D. Systems of concentrate allocation for dairy	
cows. 4. A comparison of two amounts and two patterns of allocation	17
MORAN, J. B. Cereal grains in complete diets for dairy cows: a comparison of	
barley, wheat and oats and three methods of processing oats	27
TAYLOR, ST C. S., THIESSEN, R. B. and MURRAY, J. Inter-breed relationship of	
maintenance efficiency to milk yield in cattle	37
CHAUHAN, V. P. S. and HILL, W. G. Seasonal grouping in a herd-year-season	
model of sire evaluation	63
BRUCKENTAL, I., TAGARI, H., AMIR, S., KENNIT, HANNA, and ZAMWELL, S. The	
effect on the performance of dairy cattle of plant protein concentration	
and of urea or urea-phosphate supplementation in the diet	73
THOMAS, C. K. and PEARSON, R. ANNE. Effects of ambient temperature and	
head cooling on energy expenditure, food intake and heat tolerance of	
Brahman and Brahman × Friesian cattle working on treadmills	83
THIESSEN, R. B. and Taylor, St C. S. Inter-age correlations of food conversion	65
efficiency with body weight, growth rate and food intake within and	
	91
between British breeds of cattle	91
RHIND, S. M., LESLIE, I. D., GUNN, R. G. and DONEY, J. M. Effects of high	
levels of body condition and food intake on plasma follicle stimulating	
hormone, luteinizing hormone, prolactin and progesterone profiles	1.01
	101
SULIEMAN, A. H., GALBRAITH, H. and TOPPS, J. H. Growth performance and	
body composition of early weaned wether lambs treated	
	109
ROBINSON, J. B., OKAMOTO, M., YOUNG, B. A. and Christopherson, R. J.	
Metabolic rate and rewarming speed of hypothermic neonatal lambs	
given thermal assistance or added insulation	115
VARLEY, M. A., MAITLAND, ALISON and Towle, ALISON. Artificial rearing of	
piglets: the administration of two sources of immunoglobulins after	
	121
FERNÁNDEZ, J. A., JØRGENSEN, H. and JUST, A. Comparative digestibility	
	127
GRAHAM, H. and ÅMAN, P. Circadian variation in composition of duodenal and	
ileal digesta from pigs fitted with T-cannulas	133
YEN, H. T., Cole, D. J. A. and Lewis, D. Amino acid requirements of growing	
pigs. 7. The response of pigs from 25 to 55 kg live weight to dietary ideal protein	141
YEN, H. T., Cole, D. J. A. and Lewis, D. Amino acid requirements of growing	1-1
pigs 8. The response of pigs from 50 to 90 kg live weight to dietary	
	155
ideal protein	13.
	167
the chemical body composition of sows	167
GEENTY, K. G. and SYKES, A. R. A note on the estimation of milk production	171
in sheep	171
nutrition during mid pregnancy on lamb production of primiparous	
ewes in high body condition at mating	175
MALIK, C. P., KANAUJIA, A. S. and PANDER, B. L. A note on the factors	
affecting pre-weaning growth in Beetal and Black Bengal kids and their	
crosses	178

https://doi.org/10.1017/S0003356100018274 Published online by Cambridge University Press