

**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 article 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.*

**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.

*Animal Production* is published six times a year in two volumes. Annual subscription is £56.00 (or \$120.00 in the USA and Canada) and the price for a single part is £10.00 (or \$22.00) 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*

J. A. F. Rook, Agricultural Research Council

#### *Editors*

P. J. Avery, University of Reading  
D. A. Balch, University of Reading  
R. C. Campling, Wye College, University of London  
M. F. Fuller, Rowett Research Institute  
J. P. Hanrahan, Agricultural Institute  
W. Haresign, University of Nottingham  
R. B. Land, Animal Breeding Research Organisation  
T. L. J. Lawrence, University of Liverpool  
J. H. B. Roy, National Institute for Research in Dairying  
A. J. F. Webster, University of Bristol

#### *Technical Editors*

Marie C. Pitkethly  
Jill M. Read

CONTENTS

PAGE

ELLIS, M., SMITH, W. C., CLARK, J. B. K. and INNES, N. A comparison of boars, gilts and castrates for bacon manufacture. 1. On farm performance, carcass and meat quality characteristics and weight loss in the preparation of sides for curing	1
SMITH, W. C., ELLIS, M., CLARK, J. B. K. and INNES, N. A comparison of boars, gilts and castrates for bacon manufacture. 2. Curing characteristics, bacon yield and quality	11
SMITH, W. C., ELLIS, M., CLARK, J. B. K. and INNES, N. A comparison of boars, gilts and castrates for bacon manufacture. 3. Consumer reaction to bacon from boars and castrates and an economic evaluation of a non-castration policy for bacon manufacture	17
WALKER, N. The effects of food intake in gestation on sows lactating for 14 days	25
JONES, S. D. M. and HAWORTH, C. R. The electronic prediction of commercial yield and lean content in pig carcasses	33
MITCHELL, K. G., KEAL, H. D. and PITTMAN, R. J. The effect of three stocking rates of pigs housed in identical-sized pens on performance	41
TOPLIS, P., GINESI, M. F. J. and WRATHALL, A. E. The influence of high food levels in early pregnancy on embryo survival in multiparous sows	45
HEMSWORTH, P. H., WINFIELD, C. G., HANSEN, C. and MAKIN, A. W. The influence of isolation from females and mating frequency on the sexual behaviour and semen quality of young post-pubertal boars	49
SEEBECK, R. M. Factors affecting patterns of development and their assessment	53
GIBSON, J. P. and ALLISTON, J. C. Some sources of error and possible bias in Danscan ultrasonic measurements of cattle	67
SCHANBACHER, B. D., PRIOR, R. L. and SMITH, S. B. Effects of castration and subdermal silastic implants containing oestradiol-17 $\beta$ -dipropionate on feedlot performance and carcass characteristics of male cattle	73
PRIOR, R. L., SMITH, S. B., SCHANBACHER, B. D. and MERSMANN, H. J. Lipid metabolism in finishing bulls and steers implanted with oestradiol-17 $\beta$ -dipropionate	81
GAUTHIER, D., TERQUI, M. and MAULEON, P. Influence of nutrition on pre-partum plasma levels of progesterone and total oestrogens and post-partum plasma levels of luteinizing hormone and follicle stimulating hormone in suckling cows	89
MACDEARMID, A., WILLIAMS, P. E. V. and INNES, G. M. Turnips with chemically-treated straw for beef production. 1. The effects on the growth of steers	97
LEVY, D., HOLZER, Z., DRORI, D. and FOLMAN, Y. Problems involved in the utilization of alkali-treated fibrous roughages. 1. The effects of level of roughage and protein in the diet and neutralization of residual alkali	105
LOW, SUSAN G. and KELLAWAY, R. C. The utilization of ammonia-treated whole wheat grain by young steers	113
PARTRIDGE, G. G. and ALLAN, S. J. The effects of dietary protein concentration on the lactational performance of the rabbit	119
PARTRIDGE, G. G., BRUCE, J. M., ALLAN, S. J. and SHARMAN, G. A. M. The use of a heated nestbox system to counter perinatal mortality in the commercial rabbit	125
NEWTON, J. E. and JACKSON, CAROLINE. A note on the effect of dentition and age in sheep on the intake of herbage	133
WOOLLIAMS, J. A. and WIENER, G. A note on the growth and food consumption of crossbred lambs of five sire breeds	137
KNIGHT, J. W., DALTON, D. L. and BRYANT, K. L. A note on the effects of exogenous progesterone and oestrone during early gestation on farrowing performance in gilts	141
PARKS, J. R. A note on the theoretical relation between the fractions of maturity of organs and of the whole growing animal	145
HSIA, LIANG CHOU and WOOD-GUSH, D. G. M. A note on social facilitation and competition in the feeding behaviour of pigs	149
ZOIPOULOS, P. E., ENGLISH, P. R. and TOPPS, J. H. A note on intake and digestibility of a fibrous diet self fed to primiparous sows	153