

ERRATUM

THE EFFECT OF THE PLANE OF NUTRITION ON THE
OPTIMUM DIETARY AMINO ACID PATTERN FOR GROWING PIGS

T. C. WANG AND M. F. FULLER

Volume 50, Part 1, page 157

FIG. 1 — The letters A and C on diagram should be reversed

British Society of Animal Production

OCCASIONAL PUBLICATIONS

The British Society of Animal Production's *Occasional Publication* Series contains the full papers presented at certain symposia organized by the Society.

Copies may be obtained from the British Society of Animal Production, PO Box 3, Penicuik, Midlothian EH26 0RZ, Scotland.

- No. 2. THE MECHANIZATION AND AUTOMATION OF CATTLE PRODUCTION (1977). Published 1980. 206 pp. Price £1.50 (\$2.40) + £2.00 (\$3.20) airmail supplement.
- No. 3. BY-PRODUCTS AND WASTES IN ANIMAL FEEDING (1978). Published 1980. 118 pp. Price £1.50 (\$2.40) + £2.00 (\$3.20) airmail supplement.
- No. 4. INTENSIVE ANIMAL PRODUCTION IN DEVELOPING COUNTRIES (1979). Published 1981. 481 pp. Price £10.00 (\$16.00) + £5.00 (\$8.00) airmail supplement.
- No. 6. FORAGE PROTEIN IN RUMINANT ANIMAL PRODUCTION (1981). Published 1982. 193 pp. Price £10.00 (\$16.00) + £3.50 (\$5.60) airmail supplement.
- No. 7. TRACE ELEMENTS IN ANIMAL PRODUCTION AND VETERINARY PRACTICE (1982). Published 1983. 155 pp. Price £12.00 (\$19.20) + £3.50 (\$5.60) airmail supplement.
- No. 8. MATCHING PRODUCTION TO THE MARKETS FOR MEAT (1983). Published 1984. 127 pp. Price £12.00 (\$19.20) + £3.50 (\$5.60) airmail supplement.
- No. 9. MILK COMPOSITIONAL QUALITY AND ITS IMPORTANCE IN FUTURE MARKETS (1984). Published 1984. 115 pp. Price £12.00 (\$19.20) + £3.50 (\$5.60) airmail supplement.
- No. 10. HILL AND UPLAND LIVESTOCK PRODUCTION (1985). Published 1985. 168 pp. Price £12.00 (\$19.20) + £3.50 (\$5.60) airmail supplement.
- No. 11. PIG HOUSING AND THE ENVIRONMENT (1986). Published 1987. 148 pp. Price £13.00 (\$20.80) + £3.50 (\$5.60) airmail supplement.
- No. 12. ANIMAL BREEDING OPPORTUNITIES (1988). Published 1988. 251 pp. Price £8.00 (\$12.80) + £4.00 (\$6.40) airmail supplement.
- No. 13. THE VOLUNTARY FOOD INTAKE OF PIGS (1988). Published 1989. 123 pp. Price £14.00 (\$22.40) + £5.00 (\$8.00) airmail supplement.
- No. 14. NEW DEVELOPMENTS IN SHEEP PRODUCTION (1989). Published 1990. 192 pp. Price £14.00 (\$22.40) + £5.00 (\$8.00) airmail supplement.

Symbols and abbreviations. Authors should consult the notes prepared for guidance. Levels of statistical significance must be clearly indicated.

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 for a paper and **120** words for a note) complete in itself and understandable without reference to the paper. *The abstract will be printed at the beginning of the paper.*

Keywords. Up to a maximum of five keywords selected from the CAB Thesaurus (1988) or from an equivalent reference volume should be listed at the end of the *Abstract*.

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 £93·00 (or \$186·00 in the USA and Canada) and the price for a single part is £17·00 (or \$34·00) 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

D. G. Chamberlain, Hannah Research Institute, Ayr

W. Haresign, University of Nottingham

C. L. Johnson, University of Leeds

I. J. Lean, Wye College, University of London

J. C. McCarthy, University College Dublin

C. A. Morgan, East of Scotland College of Agriculture

E. Owen, University of Reading

R. Thompson, AFRC Institute of Animal Physiology and Genetics Research, Edinburgh

A. J. F. Webster, University of Bristol

J. D. Wood, University of Bristol

Technical Editors

Hilary Davies

Marie C. Pitkethly

CONTENTS

PAGE

KELLY, E. F. and LEAVER, J. D. Lameness in dairy cattle and the type of concentrate given	221
MICHEL, A., McCUTCHEON, S. N., MACKENZIE, D. D. S., TAIT, R. M. and WICKHAM, B. W. Effects of exogenous bovine somatotropin on milk yield and pasture intake in dairy cows of low or high genetic merit	229
CODY, R. F., MURPHY, J. J. and MORGAN, D. J. Effect of supplementary crude protein level and degradability in grass silage-based diets on performance of dairy cows, and digestibility and abomasal nitrogen flow in sheep	235
PERSAUD, P., SIMM, G., PARKINSON, H. and HILL, W. G. Relationships between sires' transmitting ability for production and daughters' production, food intake and efficiency in a high-yielding dairy herd	245
VAN NIEKERK, A., KERNICK, R. and LISHMAN, A. W. The effect of winter and summer nutritional levels on the reproductive performance of beef heifers bred at 2 years of age	255
GOETSCH, A. L., FORSTER JR, L. A., MURPHY, G. E., GRANT, E. W., GALLOWAY SR, D. L. and WEST, C. P. Digestion and live-weight gain by beef cattle consuming bermudagrass supplemented with grain or different high-protein foodstuffs	263
OWEN, J. B., WHITAKER, C. J., AXFORD, R. F. E. and AP DEWI, I. Expected consequences of the segregation of a major gene in a sheep population in relation to observations on the ovulation rate of a flock of Cambridge sheep	277
WAHED, R. A., OWEN, E., NAATE, M. and HOSKING, B. J. Feeding straw to small ruminants: effect of amount offered on intake and selection of barley straw by goats and sheep	283
WAGHORN, G. C., SMITH, J. F. and ULYATT, M. J. Effect of protein and energy intake on digestion and nitrogen metabolism in wethers and on ovulation in ewes	291
ORR, R. J. and TREACHER, T. T. Intakes of silages, hays and straws by ewes in mid pregnancy	301
GALBRAITH, H., HATENDI, P. R., ALDERSON, E. M. and SCAIFE, J. R. The effect of cimaterol and oestradiol-17 β alone or combined on growth and body composition of wether lambs	311
VAN HOUTERT, M. F. J., PERDOK, H. B. and LENG, R. A. Factors affecting food efficiency and body composition of growing ruminants offered straw-based diets: supplementation with lipids with and without protein meal	321
BADAMANA, M. S., SUTTON, J. D., OLDHAM, J. D. and MOWLEM, A. The effect of amount of protein in the concentrates on hay intake and rate of passage, diet digestibility and milk production in British Saanen goats	333
BEECH, S. A., ELLIOTT, R. and BATTERHAM, E. S. Sucrose as an energy source for growing pigs: digestible energy content and energy utilization	343
DE HAER, L. C. M. Sire \times testing regime interactions in growing pigs	357
BRANDT, K. E., DIEKMAN, M. A., GRIEGER, D. M. and MOSS, G. E. Effect of supplemental lighting on puberty, follicular development, pituitary and serum concentrations of LH and hypothalamic content of GnRH in gilts	365
MULLAN, B. P. and WILLIAMS, I. H. The chemical composition of sows during their first lactation	375
RAO, D. S. and McCRACKEN, K. J. Effect of protein intake on energy and nitrogen balance and chemical composition of gain in growing boars of high genetic potential	389
PETTERSSON, D., GRAHAM, H. and ÅMAN, P. Enzyme supplementation of low or high crude protein concentration diets for broiler chickens	399
HOGG, B. W., CATCHESIDE, L. M. and MERCER, G. J. K. Carcass composition in male fallow deer: age and castration effects on dissected tissue distribution	405
ENUEME, J. E., WAIBEL, P. E. and GOODRICH, R. D. A note on the nutritive value and acceptability of peat in the diet of lambs	415
LYNCH, G. A., HUNT, M. E. and McCUTCHEON, S. N. A note on the effect of monensin sodium administered by intraruminal controlled-release devices on productivity of dairy cows at pasture	418
FONDEVILA, M., NEWBOLD, C. J., HOTTEN, P. M. and ØRSKOV, E. R. A note on the effect of <i>Aspergillus oryzae</i> fermentation extract on the rumen fermentation of sheep given straw	422
BIELANSKI, A. and YADAV, B. R. A note on fertilization and embryo production in superovulated cattle with various levels of subcutaneous fat tissue	426