

Contents	Page
Important announcement	iii
Murphy, M. G., O'Callaghan, D., Rath, M., Austin, F. H. and Roche, J. F. Effects of avoparcin and bovine somatotropin on measures of production and reproduction in dairy cows	321
Sutton, J. D., Aston, K., Beever, D. E. and Fisher, W. J. Milk production from grass silage diets: the relative importance of the amounts of energy and crude protein in the concentrates	327
Aston, K., Thomas, C., Daley, S. R. and Sutton, J. D. Milk production from grass silage diets: effects of the composition of supplementary concentrates	335
Boer, I. J. M. de, Meuwissen, T. H. E. and Arendonk, J. A. M. van Combining the genetic and clonal responses in a closed dairy cattle nucleus scheme	345
Barash, H., Peri, I., Gertler, A. and Bruckental, I. Effects of energy allowance and cimaterol feeding during the heifer rearing period on growth, puberty and milk production	359
Röpke, R., Schams, D., Schwarz, F. J. and Kirchgessner, M. Growth-related hormones in plasma of bulls, steers and heifers given food with two different energy levels	367
Sinclair, K. D., Broadbent, P. J. and Hutchinson, J. S. M. The effect of pre- and post-partum energy and protein supply on the performance of single- and twin-suckling beef cows and their calves	379
Sinclair, K. D., Broadbent, P. J. and Hutchinson, J. S. M. The effect of pre- and post-partum energy and protein supply on the blood metabolites and reproductive performance of single- and twin-suckling beef cows	391
Ming Wei and Werf, J. H. J. van der Maximizing genetic response in crossbreds using both purebred and crossbred information	401
Cushnahan, A., Gordon, F. J., Ferris, C. P. W., Chestnutt, D. M. B. and Mayne, C. S. The use of sheep as a model to predict the relative intakes of silages by dairy cattle	415
Bishop, S. C. Genetic relationships between predicted and dissected carcass composition in Scottish Blackface sheep	421
Beck, N. F. G. and Davies, M. C. G. The effect of stage of breeding season or pre-mating oestrogen and progestagen therapy on fertility in ewe lambs	429
Moloney, A. P. and Moore, W. Body-weight loss, blood and rumen fluid characteristics and nitrogen retention in lambs in negative energy balance offered diets with differing glucogenic potential	435
Everts, H. and Dekker, R. A. Effect of nitrogen supply on nitrogen and energy metabolism in lactating sows	445
Melton, B. E., Willham, R. L. and Heady, the late E. O. A note on the estimation of economic values for selection indices: a response	455
Alfurajji, M. M., Basmaeil, S. M. and Gamil, M. H. A note on relationship of plasma thyroxine and triiodothyronine rate to body weight in growing male camels	460
Morrow, A. T. S. and Walker, N. A note on direct measurement of food spillage when growing pigs are given food to appetite	463
Grundy, B., Caballero, A., Santiago, E. and Hill, W. G. A note on using biased parameter values and non-random mating to reduce rates of inbreeding in selection programmes	465
Author index	469
Subject index	471
Erratum	478