

BSAP Occasional Publications

No. 1 (1978) The Use of Blood Metabolites in Animal Production

No. 2 (1980) The Mechanization and Automation of Cattle Production

No. 3 (1980) By-Products and Wastes in Animal Feeding

CONTENTS

INTRODUCTION	
PRICE, P. H. M. Aims, farming and engineering aspects	9
MEASURING AND RECORDING	
STREET, M. J. Cattle identification	15
FILBY, D. E. Cattle weighing	25
BUREMA, H. J. A management and health control system	37
CANT, E. J. Milk yield recording	43
MACHINE MILKING	
AKAM, D. N. Technical development of milking machines	55
KINGWILL, R. G. Udder washing and teat disinfection	65
GOLDSMITH, F. E. Automatic teatcup cluster removal	71
SINCLAIR, G. Cleaning milking machines, bulk tanks, yards and milking parlours	81
CLOUGH, P. A. The effect of mechanization and automation on machine milking performance in milking parlours	97
THE MECHANIZATION OF FEEDING	
BROADBENT, P. J. Mechanization of feeding in relation to feeding systems	103
KILKENNY, J. B. Mechanization of liquid feeding of calves	115
REDMAN, P. L. Unloading forages from store	125
TURNER, M. J. B. Fixed equipment for dispensing forages	135
CATT, W. R. Mobile equipment for dispensing forages	147
DAWSON, J. R. Equipment for feeding concentrates in and out of the parlour	155
DATA ANALYSIS AND USE	
BACON, J. K. Control, data recording and retrieval — farmers' re- quirements	171
BURGESS, A. D. Control, data recording and retrieval — techniques	183
OVERSEAS EXPERIENCE	
PUCKETT, H. B. Mechanization of livestock production in United States	191
ROSSING, W. Automation in dairying — developments in the Nether- lands	205