

## AUTHOR INDEX FOR VOLUME 4 (1979) OF TROPICAL ANIMAL PRODUCTION

## PAPERS:

- Ahmed F A 6 Pollott G E The performance of yearling Kenana (Sudan Zebu) calves given three levels of crude protein as a concentrate supplement to ad libitum groundnut hay 4:65-72
- Alvarez F J, Wilson A & Preston T R Effect of spontaneous fermentation of sugar cane on performance of Zebu bulls 4:61-64
- Bergen W G Factors affecting growth yields of micro-organismes in the rumen 4:13-20
- Bobadilla Milagros & Rowe J B Banana tops and sugar cane as cattle feed: observations on the rates of fibre degradation and fluid turnover in the rumen 4:31-36
- Boodoo A, Delaitre C & Preston T R The effect of retention time on biogas production from slurry produced by cattle fed sugar cane 4:21-25
- Coleman G S The role of rumen protozoa in the metabolism of ruminants given tropical feeds 4:199-213
- Deville J, Wong You Cheong Y, Leclezio P & Duvivier P The production of silage from sugar cane tops and its use as fodder for cattle 4:134-137
- El-Harith E A, Schart Y & Ter Meulen U Reaction of rats fed on *Leucaena leucocephala* 4:162-167
- Ferreiro H M, Preston T R & Herrera F Sisal by-products as cattle feed: effect of supplementing ensiled pulp with rice polishings and ramon (*Brosimum alicastrum*) on growth rate, digestibility and glucose entry rate by cattle 4:73-77
- Ferreiro H M, Elliott R & Preston T R The effect of energy rich feed supplements on the availability of nutrients in the duodenum of cattle fed sugar cane 4:248-254
- Ffoulkes D & Preston T R Effect of voluntary intake and digestibility of supplementing chopped sugar cane stalk with cane tops, banana leaves or cassava forage 4:37-41
- Fielding D & Kyomo M L Sunflower or cottonseed meal as supplements for steers on molasses/ urea based diets 4:263-267
- Flores-Ramos J F *Leucaena leucocephala* for milk production: effect of supplementation with leucaena on cows grazing grass pastures 4:55-60
- Frisch J E 6 Vercoe J E Adaptive and productive features of cattle growth in the tropics: their relevance to buffalo production 4:214-222
- Gaya H, Nasseeven R, Hulman B & Preston T A Effect of the level of fish meal on growth and feed conversion of cattle fed molasses/urea and restricted amounts of forage 4:148-153
- Godoy R, Elliott R & Preston T R By-products of the sisal industry as cattle feed: effect of ground sorghum, fishmeal or rice polishings in cattle given diets based on sisal bagasse and ensiled sisal pulp 4:268-275
- Godoy R, Herrera F, Carcano R, Elliott R & Preston T R Preliminary observations on the use of anhydrous ammonia with and without molasses for the preservation and utilization of ensiled sisal pulp 4:276-280
- Gomez Gomez J & Viniegra Gonzalez G The use of anaerobically digested cattle slurry as a fertilizer for vegetables 4:26-30
- Losada G 6 Alderete R Effect of cassava root meal and urea level on the performance of steers grazed on poor quality pasture with free access to molasses 4:47-50
- Losada H, Aranda E, Alderete R & Ruiz J The voluntary intake by cattle of chopped sugar cane treated with sodium hydroxide 4:51-54
- Losada H, Aranda E, Ruiz J & Alderete R Effect of urea on voluntary intake and metabolic parameters in bulls fed sugar cane and molasses 4:168-171
- Mapoon L K, Boodoo A A, Hulman B & Preston T R Use of poultry litter in a diet of molasses and bagasse for fattening bulls 4:145-147
- Meyreles Luz, Rowe J B & Preston T R The effect on the performance of fattening bulls of supplementing a basal diet of derinded sugar cane stalk with urea, sweet potato forage and cottonseed meal 4:255-262
- Paterson R T, Sauma G & Samur C The growth of young bulls on grass and grass/legume pastures in sub-tropical Bolivia 4:154-161
- Priego A, Dixon R M, Elliott R 6 Preston T R Studies on the digestion in the forestomachs of cattle of a diet based on sisal pulp: I Supplementation with *Leucaena leucocephala* and rice polishings 4:281-286
- Priego A, Elliott R & Preston T R Studies on the digestion in the forestomachs of cattle of a diet based on sisal pulp: II Supplementation with ramon (*Brosimum alicastrum*) forage and rice polishings 4:287-291
- Ramchurn R Improved housing conditions for rabbits 4:223-231

- Rowe J 8, Munoz R & Preston T R The banana plant as a source of roughage for cattle fed molasses and urea 4 42-46
- Rove J B, Bobadilla Milagros, Fernandez Angela, Encarnacion J C 6 Preston T R Molasses toxicity in cattle rumen fermentation and blood glucose entry rates associated with this condition 4 78-89
- Rowe J B Homemade gastrointestinal cannulae 4 127-133
- Rowe J B, Ravelo G Bordas F 6 Preston T R The digestion of rice given as a supplement in a molasses based ration 4 241-247
- Smith G H, Kempton T 3 & Leng R A Glucose metabolism and growth in cattle given molasses/ urea based diets 4 138-144
- Sutton J D Rumen function and the utilization of readily fermentable carbohydrates by dairy cows 4 1-12
- Tejada R, Murillo Beatriz & Cabezas M T Ammonia treated wheat straw as a substitute for maize silage for growing lambs 4 172-176
- ter Meulen U, Struck S, Schulke E & El-Harith E A A review on the nutritive value and toxic aspects of *Leucaena leucocephala* 4 113-126
- Wyllie D & Chamanga P J Cassava leaf meals in broiler dicta 4 232-240

## ABSTRACTS:

- Aduma J P Coccidiosis in rabbits 4 298 Abs 13
- Alvarez 7 J Recent findings in the dual purpose milk/beef demonstration from C 41 in Tabasco, Mexico 4:101 Abs C2
- Alvaraz f J, Saucedo G, Arrivillaga A & Preston T R Effect of degree of crossing 805 Taurus/ indicus on production of milk and beef in a dual purpose herd 4:178 Abs 5
- Aranda E Effect of forage and supplement on voluntary consumption, fibre digestion and nitrogen retention in sheep fed on dicta of molasses/urea 4:181 Abs 10
- Arderete B Response to supplementation by energy sources, true protein and NPN on voluntary intake, digestibility and N balance of sheep fed on aleman pasture 4 186 Abs 19
- Arriaga A, Saucedo G & Alvarez F J Reproductive and health aspects of a dual purpose system in the humid tropics 4 192 Abs 31
- Baez L, Ffoulkes D & Vasquez O Effect of breed on milk and calf production in a dual purpose hart 4 101 Abs C3
- Bergen W G Factors affecting growth yields of micro-organisms in the rumen 4 103 Abs D1
- Bobadilla Milagros & Rove J B Voluntary feed intake and rumen fermentation in cattle fed different proportions of banana forage and sugar cane 4 103 Abs D2
- Boodoo A 6 Preston T R Effect of retention time on production of biogas from the wastes of cattle fed auger cane diets 4:92 Abs A3
- Boodoo A Hulman B & Preston T R Fattening cattle with poultry litter, molasses and bagasse 4: 9; Abs B3
- Boodoo A & Phillippo Elizabeth Molasses/urea and *Leucaena leucocephala* as the basal diet for calves reared by restricted suckling 4:102 Abs C4
- Chavira N & Sahagun R Carcass analysis of European x Zebu crosses 4:191 Abs 30
- Costa O Rabbit production in developing countries 4:296 Abs 9
- Cuaron Maria Luisa, Shimada A S & Viana Marta Manipulation of the fermentation in sugar cane silage and the effect on performance of Tabsaco sheep 4 181 Abs 9
- Delio D, Soto J L, Ffoulkes D & Hovell F D De B Digestibility and voluntary intake of auger cane and mixtures of sugar cane and banana forage 4:112 Abs D14
- Delpeche M, Marie D & Preston T R Integration of cattle and food crop production in the Seychelles based on auger cane, bananas and *Leucaena leucocephala* 4:90 Abs A1
- El Amin FM Rabbit husbandry in the Sudan 4:293 Abs 2
- El Amin F n Reproductive performance of rabbits selected for post weaning growth rate 4:298 Abs 12
- Elliott R, Ferreira H M & Preston T R Flow of nutrients to the duodenum in steers fed a basal sugar cane diet supplemented with grain, green banana or rice polishings 4 196 Abs 37
- Fernandez Angela, Ffoulkes D 6 Preston T R Sugar cane feeding effect of derinding cane stalk and supplementation with sweet potato forage 4 95 Abs B1
- Fernandez Angela, Rowe J B 6 Preston T R Effect of a methane inhibitor on behaviour and rumen VFA of bulls fed a basal diet of sugar cane and molasses 4 182 Abs 13

- Fernandez Angela, Hovell F D DeB & Preston T R Effect on growth performance of Holstein crossbred bulls of supplementing whole sugar cane, sugar cane stalk or derinded cane stalk with sweet potato forage and cottonseed meal 4:185 Abs 18
- Ffoulkes D & Preston T R Fattening cattle with molasses/urea ant cassava or sweet potato forage 4:97 Abs B4
- Ffoulkes D & Preston T R Digestibility of cassava forage 4:110- Abs D11
- Ffoulkes D, Done P 6 Preston T R Apparent digestibility and voluntary intake of derinded sugar cane supplemented with sweet potato forage (Ipomoea batatas) given as whole vine or finely chopped 4:111 Abs D13
- Gamboa J M The Zebu and its potential 4:191 Abs 29
- Garza J D, Shimada A S & Cervantes A Digestibility of six varieties of sugar cane by sheep . 4:181 Abs 11
- Gaspari D Rabbit breeding and production in Mozambique 4:293 Abs 3
- Godoy R, Elliott R & Preston T R The effects of ammonium hydroxide upon the total soluble auger contents and pH of ensiled pulp ant bagasse 4:94 Abs A5
- Godoy R & Elliott R Effect of supplements of sorghum grain ant fish meal on the intake and growth of bulls fed henequen pulp or bagasse 4:183 Abs 15
- Godoy R, Elliott R & Preston T R Observations on ensiling henequen pulp with anhydrous ammonia and mixtures of ammonia and molasses 4:184 Abs 17
- Godoy R & Elliott R Effect on voluntary intake of henequen pulp by sheep supplemented with glucose or casein given as infusions in the abomasum 4:198 Abs 41
- Herrera F, Ferreiro H M & Wyllie D Effect of different levels of *Leucaena leucocephala* on digestibility and performance of cattle fed ensiled henequen pulp 4:100 Abs B8
- Hinojosa C A & Segura C Heritability of postweaning performance in Brahman cattle 4:188 Abs 22
- Hovell F D DeB & Fernandez Angela Effect of the diet of the host animal on the rate of degradation in the rumen of different tropical feeds 4:104 Abs D4
- Kangni L D Rabbit husbandry in Togo 4:293 Abs 4
- Keoghan J M Adaptable and productive forage legumes and grasses for more intensive small ruminant livestock systems in the Caribbean 4:177 Abs 3
- Lungu J P Rabbit production in Zambia 4:294 Abs 5
- Madelene F & Osorio M Zebu x European beef cattle crossing 4:190 Abs 27
- Manattah N Sociological aspects of introducing rabbits into fern practices 4:295 Abs 7
- Martinez S Utilization of banana meal by broilers 4:183 Abs 14
- McNitt J A Methods of small holder rabbit production .4:296 Abs 8
- Medrano M, Osorio M, Julian J, Sahagun R & Hinojosa A Calculation of factors of adjustment for non genetic effects on weaning weight and preweaning gain for Zebu ant Charolais cattle 4:189 Abs 23
- Mendez A & Zaragoza L Substitution of sorghum for different levels of cassava meal in the feeding of "roving and finishing pigs 4:182 Abs 12
- Mena A, Reyes M, hovell F D DeB 6 Rove J B Digestion of diets based on derinded sugar cane and molasses containing different levels of sweet potato forage 4:96. Abs 36
- Meyreles Luz & Preston TR Studies on leaf production in the banana plant 4:93 Abs A4
- Meyreles Luz & Preston T R Effect of supplementation with banana or sweet potato forage on the voluntary intake of sugar cane stalk 4:96 Abs B2
- Meyreles Luz & Preston T R Effect of cutting frequency on yield and composition of sweet potato forage 4:177 Abs 2
- Meyreles Luz, Rove J 8 & Preston T R Effect on growth of Zebu bulls of giving sweet potato forage, cotton seed meal separately or together in a basal diet of derinded auger cane with two levels of urea 4:187 Abs 20
- Mgheni M Rabbit husbandry in Tanzania 4:292 Abs 1
- Minor S; Silvestre R & Hovell F D DeB Supplementation with dried cassava root for cattle fattened on diets of molasses/urea or sugar cane/molasses/urea 4:98 Abs B6
- M m or S 6 Hovell F D DeB Rate of rumen digestion of different protein sources using the in vivo nylon bag technique with cattle fed sugar cane 4:105 Abs D5
- Mota J & Hovell F D DeB Biogas production in a commercial digester 4:92 Abs A2
- Navarro A Effect of supplementation with fish meal and cassava meal on the performance of bulls fed on molasses/ures 4:184 Abs 16
- Odonker L N A new method for rabbit production 4:297 Abs 10
- Osorio M Genetic development of cattle in Tabasco 4:189 Abs 24

- Osorio M & Alderete R Evaluation of post weaning gain of four cattle breeds 4:190 Abs 26
- Owen J E Rabbit production in tropical countries 4:294 Abs 6
- Paredes S Age and weight at puberty of F1 heifers 4:191 Abs 28
- Pena F J Reproduction aspects in Pelibuey sheep 4:180 Abs 7
- Priego A & Vargas J Pattern of feed intake and rumination in cattle fed dicta of henequen pulp supplemented with ramon forage and rice polishings 4:104 Abs D3
- Priego A & Elliott R Rate of rumen outflow of dry matter and protein in henequen pulp diets supplemented with ramon forage or rice polishings 4:108 Abs D9
- Ramchurn R New food resources for rabbits 4:297 Abs 11
- Ravelo G, Encarnacion J C, Hovell F D DeB & Rowe J B Rice grain given as a supplement to diets based on molasses and on sugar cane 4:106 Abs D6
- Rodriguez R & Valencia M Determination of puberty in different rearing systems in Pelibuey female sheep 4:180 Abs 8
- Rowe J B, Munoz R & Preston T R Banana forage as a roughage source (with or without sugar cane) for cattle with free access to molasses/urea 4:98 Abs B5
- Rowe J B, Bobadilla Milagros, Fernandez Angela, Encarnacion J C 6 Preston T R Molasses toxicity in cattle: rumen fermentation and blood glucose entry rates associated with this condition 4:110 Abs D12
- Rowe J B & Bordas F Protein synthesis in the rumen of cattle given different amounts of molasses ant cassava root 4:197 Abs 38
- Rowe J B, Bobadilla Milagros, Preston T R & Leng R A Thiaminase activity in the rumen of cattle given molasses or sugar cane based diets 4:198 Abs 40
- Rugh J W Housing of rabbits in Africa 4:298 Abs 15
- Ruiz Guadeloupe, Silvestre R & Hovell F D DeB Responses to different levels of an antiprotozoal agent in cattle fattened with molasses/urea ant sweet potato and banana forage 4:99 Abs B7
- Ruiz Guadelupe, Ffoulkes D & Preston T R Digestibility and-voluntary intake of derinded cane and stalk supplemented with different forages 4:109 Abs D10
- Sahagun R & Osorio H Environmental factors affecting birth weight of calves in Tabasco 4:190 Abs 25
- Santana Amarely & Hovell F D DeB Degradation of various sources of starch in the rumen of Zebu bulls fed sugar cane 4:107 Abs D8
- Santana Amarely & Hovell F D DeB Rate of rumen digestion of the dry matter of leaf, petiole and stem of banana, sweet potato and cassava forages using the in vivo nylon bag technique with cattle fed sugar cane or molasses based diets 4:192 Abs 32
- Santana Amarely & Hovell F D DeB Rumen degradation rates of leaf and stem of pangola, elephant, brachiaria & guinea grass using the in vivo nylon gas technique with cattle fed sugar cane 4:193 Abs 33
- Santana Amarely & Hovell F D DeB The effect of sodium hydroxide treatment of derinded sugar cane on the rate of rumen degradation of the fibre using the in vivo nylon bag technique 4:194 Abe 34
- Santana Amarely & Hovell F D DeB Rumen degradation rates of fibre from low and high sucrose sugar cane 4:195 Abs 35
- Semuguruka W D Observations on rabbit disease in Tanzania 4:298 Abs 14
- Solis J L Effect of climate on food and water intake of Holstein and Zebu steers 4:188 Abs 21
- Sutton J D Rumen function and the utilization of readily fermentable carbohydrates by dairy cows 4:100 Abs C1
- Thomas N Irrigation characteristics of forage production systems in the Comarca Lagunera, Mexico 4:177 Abs 1
- Valencia E & Castro M Effect of restricted suckling on performance of calves supplemented with molasses/urea and Leucaena forage 4:179 Abs 6
- Vasquez F, Perez J & Melendez F Effect of nitrogen and height of cutting on carbohydrate reserves and production of dry matter from Para grass 4:178 Abs 4
- Williams D Rabbit raising in Saboda area 4:299 Abs 16
- Wyllie D Systems of cassava forage production for the semi-arid tropics 4:95 Abs A6
- Wyllie D & Ferreiro H MObservations on the number of replications required per treatment in cattle experiments 4:107 Abs D7