

7 REFERENCES

- Abdul Rahim H. and Abdul Wahid, S. (1980). "Pengeluaran Susu Kambing: Kandungan dan Kelebihannya". Teknol. Pertanian, 1: 89-95.
- Abdul Rahman, M.Y. and Mohd. Khusahry, M.Y. (1979). The quantity and composition of milk in local goats and sheep - preliminary report. Presented at Mal. vet. Ass. Confe., Kuala Lumpur, 6-8 October, 1979.
- Abdul Wahid, S. (1973). A genetic study of growth, body measurements and carcass characteristics in four purebred and four crossbred broilers in Malaysia. M.Agr. Sci. thesis, University Malaya, Kuala Lumpur. pp 131.
- Abdul Wahid, S., Mukherjee, T.K. and Mahyuddin Dahan, M. (1978). Breeding and Selection for improvement of goats in Malaysia. Proc. workshop "Breeding for Ruminant Production in the Tropics" 3-4 Nov., 1978, Serdang, Selangor, Malaysia: 19-44
- Abdul Wahid, S. (1981). Observation on the growth performance of local crossbred goats grazed under oil palm. Presented at Mal. Vet. Ass. Confe., 1-3 Nov, 1976, Kuala Lumpur:17pp
- Abdul Wahid, S., Jemalos, M. and Shokri, A. (1987a). Growth performance of Saanen x Katjang and Anglo Nubian x Katjang goats. In Proc. IV International Goat Conference, 8-13 March, 1987, Brasilia, Brazil, pp. 319 Abstract.
- Abdul Wahid, S., Kamal Hizat, A. and Ariff, O. M. (1987b). The growth performance of purebred and crossbred goats under open pasture conditions. Malays. Appl. Biol., 16: 219-226.
- Abdul Wahid, S. and Mohd. Khusahry, M.Y. (1981). The performance of Australian Feral goats in Malaysia. Malaysian vet J. (1980), 7: 37-45.
- Abdul Wahid, S. and Mukherjee, T.K. (1981). Breeding plan for the improvement of goat and sheep in Malaysia. Report submitted to Chairman Livestock Advisory Committee, MARDI, July 1981. 32pp
- Abdul Wahid, S. and Mukherjee, T.K. (1985). Phenotypic correlation of body weight with external body measurements in Malaysian goats. In Proc. 3rd AAAP Animal Science Congress, 6-10 May, 1985, Seoul, Korea, :

- Abdul Wahid, S., Rozimah H. and Cheah, P.F. (1985). Introduction of Saanen to Anglo Nubian x Katjang and Jamnapari x Katjang crossbred goats--Observations on their growth performance. In Proc. 9th MSAP Confe. "Quality in Livestock Production", 11-12 March, 1985, Universiti Pertanian Malaysia, Serdang, Selangor, pp. 8-13.
- Acharya, R.M. (1982). Sheep and goat breeds of India. FAO Animal Production and Health Paper No. 30. Food and Agriculture Organization of the United Nations, Rome.
- Acharya, R.M. (1987). Breeds of goats and research programmes for their improvement in India. In Proc. 4th Int. Goat Confe., 8-13 March 1987, Brazilia, Brazil, Vol I: 773-803.
- Acharya, R.M. (1992). Goat genetic resources and their management. In: Research in Goats. Indian Experience. Central Institute for Research on Goats, Makhdoom, Mathura, India. pp.
- Acharya, R.M. and Bhattacharya, N.K. (1992). Status of small ruminant production. In Proc. V International Goat Conference, New Delhi, India, pp. 165-201.
- Acharya, R.M., Mishra, R.K. and Patil, V.K. (1982). Breeding strategy for goats in India. Mimeo. Central Sheep and Wool Research Institute, Avikanagar, Rajasthan.
- Acharya, R.M. and Singh, N.P. (1992). The role of goat in conservation of ecology and livelihood security. In V Int. Confer. on Goat Production, New Delhi, India, March 2-8, (1992), pp 81-99.
- Addis, T. and Gray, H. (1950). Body size and organ weight. Growth, 14: 49-80.
- Agnihotri, M.K. and Prasad, V.S.S. (1992). Processing of goat milk and milk products in India. In: Research in Goats, Indian experience. Central Institute for Research for Goats, Makhdoom, Mathura, India, pp 212-221.
- Agrawal, K.P. and Bhattacharya, N.K. (1978). Yield and composition of milk in Black Bengal, Barbari and Black Bengal x Barbari nannies. Indian J. Anim. Sci. 48: 882-886.
- Alam, M.R. (1992). Research and goat production system in Bangladesh small ruminants. In Proc. V Inter. Goat Confe., New Delhi, India. pp 4
- Ali, S.Z. (1980). Relation of birth weight on their postnatal growth in Black Bengal goats. Indian vet. J. 57:

1006-1008.

- Ali, S.Z., Haque, M.M. and Hasnath, M.A. (1973). A study on the growth and reproductive performance of Black Bengal goats under farm conditions. *Ind. Vet. J.*, 50, (5): 438-440.
- Alkass, J.E., AlRawi, A.A., Al-Hillali, A.H. and Al-Tavy, H.M.A. (1986). Body weight of horne-vs-polled-sired awassi lambs. Third World Congress on Genetics Applied to Livestock Production. Xii. Biotechnology, selection experiments, parameter estimation, design of breeding systems, management of genetic resources. Lincoln, Nebraska, USA, 16-22 July, 1986.
- Al-Rawi, A.A., Badawi, F.S., Said, S.I. and Farag, M.S. (1982). Genetic and phenotypic parameter estimates for growth traits in Awassi Sheep. *Ind. J. Anim. Sci.*, 52 (10): 897-900.
- Ambale, V.N., Khandekar, N.C. and Garg, J.N. (1964). ICAR Research Series No. 38, New Delhi.
- Amoah, E.A. and Bryant, M.J. (1983). Gestation period, litter size, and birth weight in the goat. *Anim. Prod.* 36: 105-110
- Anderson, A.C. and Goldman, M. (1970). Growth and development in the beagle as an experiment dog. A.C. Anderson (Eds), Chap. 6, Ames, Iowa, Iowa State University Press, pp 73-105.
- Angervall, L. and Carlstrom, E. (1963). Theoretical criteria for the use of relative organ weights and similar ratios in biology. *J. Theoret. Biol.* 4: 254-259.
- Annual Report, Institut Haiwan Kluang (1986).
- Aregheore, E.M. (1992). Crop residues in rations for Gwembe valley goats. In *Int. Confer. on Goat Production*, New Delhi, India, March 2-8, (1992), pp 96.
- Arganosa, F.C., Ibarra, P.I. and Malabanam, M.M. (1977). Live measurements and carcass yield of native goats. *Philippines Agriculturist* (1977), 61: 166-175.
- Arora, C.L. (1992). Organized goat breeding and breeding strategies. In: *Research on Goats, Indian experience*. Central Institute for Research for Goats, Mathura, India. pp 28-38.
- Australian Goat Breeders Society Journal (A.G.B.S.J.), (1978) Vol 30, pp. 21.

- Banumathi, Th. and Mukherjee, T.K. (1981a). Oestrus cycle and associated phenomenon in Katjang goats. *Mal Vet J.* 7:58-663.
- Banumathi Thangavelu. (1983). Oestrus and its associated phenomenon in Malaysian goats (Kambing Katjang). M.Sc. Thesis, University of Malaya, Kuala Lumpur.
- Barhat, N.K. and Choudary, M.S. (1978). Factors affecting some production traits in Rajasthani goats. *Ind. J. Dairy Sci.* 31: 185-188.
- Belinchon, P. and Marques, F. (1971). "Fertility of Murcian goats and birth weights of their kids". In *IIe Conference Internationale de l'elevage Caprin*, Tours, 1971. pp. 339-348.
- Bellaver, C., Arruda, F. de A.V. and Maraes, E.A. de. (1980). "Productivity of goats and sheep-kidding and lambing in the dry season". *Communicado Tecnico, EMBRAPA*, 1: 3.
- Berg, R.T., Anderson, B.B. and Liboriussen, T. (1978). Growth of bovine tissue. I. Genetic influences on growth pattern of muscle, fat and bone in young bulls. *Anim. Prod.* 26: 245-258.
- Bertalanffy, von L. (1960). Principles and theory of growth fundamental aspects of normal and malignant growth. (ed.) W.W.Nowinski. Amsterdam. Elsevier Publ. Co.
- Bertram, J.E.A. and Biewener, A.A. (1990). Differential sealing of the long bones in the terrestrial carnivora and other mammals. *J. Morphol.* 204: 157-169.
- Beverton, R.J.H. and Holt, S.J. (1957). On the dynamics of exploited fish population. *Fisheries Invest. London*, 2: 19
- Bhansiri et al., (1981), cited by Charan, 1985.
- Bhat, P.N. (1977). New and indigenous animal variability. Invitational paper. In *proc. 3rd Inter. Congr. SABRAO*, Australia, 1 (c), pp 1-39.
- Bhat, P.N. (1987). Principles for animal improvement in the tropics:sheep and goats. Asian experience. *FAO Animal Production and Health Paper* 66, (1987), FAO of UN, Rome. :89-124
- Bhat, P.N., Asker, A.A., Badawey, E.F., Abu-El-Maaily and Abid, M.A. (1978). Effect of early weaning on body weight of Awassi lambs. *Ind. J. Anim. Sci.* 48, (2): 98-102.
- Bhat, P.N., Koul, G.L., Koul, S.K., Rajendra Kumar and Garg,

- R.C. (1981). Factors affecting body weight and growth rate of Awassi lambs. *J. Agric. Sci*, 97, (2):
- Bhatnagar, D.S. and Mishra, R.R. (1978). Crossbreeding of Indian goats with exotic breeds. National Dairy Research Institute, Karnal, India. Annual Report: 217-224.
- Bhatnagar, D.S., Sharma, R.C. and Mishra R.R. (1976). Crossbreeding of Indian goats with exotic breeds. In Proceeding of the Second workshop on all India Coordinated Research Project on goat Breeding held at NDRI, Karnal, India, 22-23 March, 1976.
- Bhatnagar, D.S., Tomar, O.S. and Nagarcenkar, R. (1971). All India coordinated research project on breeding and management of goats for milk. In Annual Report 1971 National Dairy Research Institute, Karnal, New Delhi, Indian Council of Agri. Research (1971) pp. 53-54.
- Bhattacharya, B., Ghosi, T.K., Duttagupta, R. and Maitra, D.N. (1984). Estimation of body weight in Black Bengal goats from body measurements. *Indian vet. J.* 61 (5): 406-408.
- Bose, S. and Basu, S.B. (1984). Relationship between body measurements and meat production in Beetal goats. *Indian vet. J.* 61 (7): 670-673.
- Bou, Jr., Casinos, A. and Ocana, J. (1987). Allometry of the limb long bones of insectivores and rodents. *J. Morphol.* 192: 113-123.
- Bouillon, J. (1975). Genetic variability of machine milking time in lactating goats. *I'eres journees de la recherche ovine et caprine*, 2-44 decembre 1975, pp133-136.
- Bouillon, J., and Ricordeau, G. (1975). Genetic parameters of growth and milk production in the goat at a testing station. Estimates of direct and indirect responses to selection. *I'eres journees de la recherche ovine et caprine*. pp 124-132.
- Brody, S. (1945). *Bioenergetics and Growth*. Hafner Press, Macmillan Publishing Co. Ltd. New York. pp 1023.
- Bryden, M.M. (1969). Regulation of relative growth by functional demand: its importance in animal production. *Growth*. 33: 143-156.
- Burmeister, W. (1965). Body cell mass as the basis of allometric growth functions. *Am. Paediat.*, 204: 65-72.
- Butterworth, M.H. (1961). Studies on Pangola grass at I.C.T.A,Trinidad III. Concentrate feeding for dairy cows

- on Pangola grass pastures. *Trop. agric. Trin.* 18: 305.
- Buvanendran, V., Jalatge, E.F.A., Ariyatne, H.K. and Sangaradeniya, S.S. (1974). A note on comparative growth rates of Jamnapari, South Indian goats and their crosses. *Ceylon Vet. J.*, 22 (12): 14-15.
- Calder, W.A. (1984). Size, function and life history. Harvard University Press, Cambridge, Massachusettes.
- Carlson, G.L. (1978). Regulatory phenomenon and the data of growth. *Growth* 41: 25-32.
- Carmen, L. (1965). The effect of radiation on growth pattern of mice. *Growth*, 29: 85-95.
- Casey, N.H. and van Niekerk, W.A. (1988). The Boer Goat. I. Origin, adaptability, performance testing, reproduction and milk production. *Small Ruminant Res.* 1: 291-302.
- Castillo, H.C. (1983). A preliminary evaluation of the reproductive and productive performance of imported Anglo Nubian, Saanen, Alpine and Toggenburg goats in selected farms in the Philippines. *The Philippines J. Anim. Industry*, 38: 52-62
- Castillo, J. and Garcia, B.O. (1971). "The Nubian x Criollo cross. I. Growth of kids". III. *Revn. Lat.-Am. Prod. Anim.*, Gogota, 1971: 111
- Castillo, J., Garcia, O. and Osal, N. (1972). "The Criollo x Nubian crossbred . 1. Kid growth". *Agronomia Tropical*, 22, (3): 251-259.
- Castillo, J., Garcia, O., Verde, S.O. and Peraza, F. (1976). "Growth of kids of four imported goat breeds". *Memoria, Asociacion Latinoamericana de Production Animal.* 11: 29-30.
- Chakravarti, K.C. (1961). Ancient Indian Culture and Civilization, 2nd edn (Translated by H. Hashimoto and C. Hashimoto into Japanese), Toho Shuppan, Osaka, pp 326.
- Chandan, R.C., Attaie, R. and Shahani, K.M. (1992). Nutritional aspects of goat milk and its products. In *Proc. V Int. Confe. on Goats, Vol 2, Part 2, New Delhi*, pp 399-420.
- Ch'ang, T.S. and Rae, A.L. (1970). The genetic basis of growth, reproduction and maternal environment in Romney ewes. I. Genetic variation in hogget characteristics and fertility of the ewe. *Aust. J. agric. Res.*, 21: 115-129.

- Chawla, D.S. and Bhatnagar, D.S. (1985). Milk production potential of various crossbred goats under stall fed conditions in the tropics. *Animal Breeding Abstracts*, 53: 310.
- Chawla, D.S. and Nath, I. (1979). A note on body size measurements and carcass traits in Beetal and its exotic crossbred males. *Indian J. Anim. Sci.*, 49: 759-762.
- Chawla, D.S., Nagpal, S. and Bhatnagar, D.S. (1984). Variation in body weight gain in Beetal, Alpine and Saanen goats. *Ind. J. Anim. Sci.* 54: 711-714.
- Chemineau, P. (1992). Seasonality and photoperiodic influence in the female goat reproduction. In *Proc. V Intern. Confe. on Goats*, New Delhi, India, Vol II, Part II, pp. 355-368.
- Chopra, S.C. and Acharya, R.M. (1971). Genetic and phenotypic parameters of body weights in Bikaneri sheep (Magra strain). *Anim. Prod.* 13: 343-347
- Clamohoy, L.L., Arganosa, V.G. and Palad, O.A. (1959). Exploratory goat dairying with native and grade goats. *Phil. Agric.* 43: 243-249.
- Clamohoy, L.L., Arganosa, V.G. and Palad, O.A. (1983). Exploratory goat dairying with native and grade goats. *Phil. Agric.* 43: 243-249
- Cock, A.G. (1966). Genetical aspects of metrical growth and form in animals. *Quart. Rev. Biol.*, 41:131-190
- Colomer-Rocher, F. (1987). Factors affecting carcass quality, carcass components and composition. In *Proc. IV Inter. Goat Confe.*, New Delhi, India. pp 473-486.
- Creek, M.J. (1964). Animal production studies in Jamaica. II. The development and evaluation of a field program of calf weighing. *J. agric. Sci.*, 62: 157-164.
- Dahlborn, K. (1987). Effect of temporary food or water deprivation on milk secretion and milk composition in the goat. *J. Dairy Res.*, 54: 153-163.
- Darokhan, M.D. and Tomar, N.S. (1983). Studies on body weights and measurements at birth in Changtahang Pashmina goats of Ladakh. *Indian vet. J.*, 60: 564-569.
- Das, S.K., Sahu, A.K., Ghose, N., Ray, S., Majumdar, S.C., and maitra, D.N. (1992). Management of Bengal goat in deep litter system under humid tropics. In *Proc. V Inter. Goat Confe.*, New Delhi, pp. 63.

- Datta, I.C., Sahani, K.L., Bhatnagar, R.K. and Roy. A. (1963). Studies on certain aspects of sheep and goat husbandry. 2. Birth weight, live weight rearing lambs and kids. Indian J. Vet. Sci., 33: 71-77.
- Deaver, S., Huggins, R.A. and Smith, E.L. (1972). Absolute and relative organ weights of the growing beagle. Growth, 36: 195-208.
- DeGroot, B., Narayan Prasad, K.A., Soni, R.L., Nett, P. and Kropf, W. (1992). Performance of Sirohi goats under village conditions in Rajasthan. Indian V International Conference on Goats. 2-8 March, 1992, New Delhi.
- Deichert, G. (1981). Preliminary results of reproduction traits of the indigenous Malaysian goats. Mal. Vet. J. 7: 46-50.
- Deichert, G. (1986). Impact of crossbreeding and extension activities on productivity of goats in smallholder systems. I. Investigations on kid mortality. Paper presented in one day seminar 'Kesan teknik projek pembiakan kambing, IPT, ke atas perkembangan ternakan haiwan di Malaysia', Institute of Advanced Studies, U.M.
- Deichert, G. (1991). An approach towards the development of small scale goat holdings in two sample villages of the Peninsular of Malaysia. Diss. Techn. Univ. Berlin.
- Devendra, C. (1962). Upgrading of local goats by the Anglo Nubian at the Federal Experiment Station, Serdang. Mal. Agric. J., 43 (4): 265-280.
- Devendra, C. (1966). Goat improvement in Malaysia. Mal. Vet. J., Vol. 4, No. 1: 18-22.
- Devendra, C. (1966). Studies in the nutrition of the indigenous goat of Malaya. 1. The body measurements, composition of sample joints and their relationship to carcass composition. Malay. agric. J. 45: 345-360.
- Devendra, C. (1966). The importance of goats in Malaya. Z. Tierzuchtg. Zuchtgsbiol. 83: 72-79. Cited by Stemmer, A. 1993.
- Devendra, C. (1971). Goat production in the Caribbean. In Proc. II Inter. Confe. on Goat Breeding. Inst. Tech. de l'Elevage Ovin et Caprine, Paris. pp 47-54.
- Devendra, C. (1972). The composition of milk of British Alpine and Anglo Nubian goats imported into Trinidad. J. Dairy Sci., 39: 381-385

- Devendra, C. (1975). Milk production from dairy goats. Presented at Symposium on 'Bridging the Dairy Gap' 3-4 February 1975, Kuala Lumpur, pp.
- Devendra, C. (1977). Towards more food for livestock in Malaysia. In proc. Congr., "Food and Agriculture Malaysia 2000", Serdang.
- Devendra, C. (1980). The potential of sheep and goats in the less developed countries. *J. Anim. Sci.*, 51: 461
- Devendra, C. (1992). Goats and Rural Prosperity. In V Int. Confer. on Goat Production, New Delhi, India, March 2-8, 1992, pp 6-25.
- Devendra, C. and Burns, M. (1970). Goat Production in the Tropics. Tech. Common. No. 19, Comm. Bur. Anim. Breed. Genet. Commonwealth Agricultural Bureaux, Farnham Royal, England. xiii + 184pp
- Devendra, C. and Burns, M. (1983). Goat Production in the Tropics. Revised, Edn.xiii + 183 pp. Technical Commonwealth Bureau for Animal Genetics, Commonwealth Agricultural Bureaux, Farnham Royal, UK.
- Devendra, C. and Nozawa, K. (1976). Goats in South East Asia-their status and production. *Zeitschrift fur Tierzuchtung Zuchtungsbiologie* 93, (1976): 101-120.
- Devendra, C. and Owen, J.E. (1983). Quantitative and Qualitative aspects of meat production from goats. *World Animal Review*, 47 :19-29.
- Dickinson, A.G., Hancock, J.L., Hovell, G.J.R., Taylor, St. C.S. and Weiner, G. (1962). The size of lambs at birth -a study involving egg transfer. *Anim. Prod.* 4: 64-79.
- Dilwali, C.K. (1943). Analysis of weight records of Etawah goats. *Ind. J. Vet. Sci.* 13: 115-120.
- Donaldson, L.E. and Larkin, R.M. (1963). Observation on time of calving and growth to weaning of beef calves in coastal northern Queensland. *Q'land J. agric. Sci.*, 20: 199-202.
- Dutt, M. (1968). A preliminary note on some of the economic characters of Barbari goat. *Indian J. Anim. Hlth.*, 7: 15-18.
- Ecker, M. and Tuncel, E. (1973). Investigation of the reproduction performance and viability of Kilis, and Saanen x Kilis dairy goats bred at the Faculty of Agriculture of Ankara University. *Ziraat Fakultesi Yilligi, Ankara University*, 22 (1-2): 140-162.

- Ecker, M. et al., (1975). cited by Bhattacharya, 1980.
- Ecker, M., Tuncel, E., Askin, Y. and Yener, S. (1976). "Some milk production characteristics of Saanen x Kilis crossbred dairy goats raised at the Faculty of Agriculture, University of Ankara". Ankara Univ. Ziraat Fak. Yilligi 26: 451-462.
- Egwu, G.O., Onyeyili, P.A., Chibuzo, G.A. and Ameh, J.A. (1995). Improved productivity of goats and utilization of goat milk in Nigeria. Small Ruminant Res. 16: 195-201.
- Ehoche, O.W. and Buvanendran, V. (1983). The yield and composition of milk and preweaning growth rate of Red Sokoto goats in Nigeria. World Rev. of Anim. Prod. 19: 19-24.
- Eibl-Eibesfeldt, I. (1970). "Ethology: the biology of behaviour". Holt, Rinehart and Wustion, New York, 530 pp.
- Eikje, E.D. (1974). Studies on sheep production records. 4. Genetic, phenotypic and environmental parameters for weight of lambs. Acta Agric. Scand., 14: 291-298.
- Eisen, E.J. (1976). Results of growth curve analysis in mice and rats. J. Anim. Sci., 42: 1007-1023.
- El-Gallad, T.T., Gihad, E.A., Allam, S.M. and El-Badawy, T.M. (1988). Effect of energy intake and roughage ratio on the lactation of Egyptian Nubian (Zaraibi) goats. Small Ruminant Res. 1: 327-341.
- Elivin, A, Tepe, F. and Tuncal, E. (1976). "Adaptation and yield of Saanen x Kilis crossbred dairy goats at the Anatolya Regional Research Institute. 2. Body weight, body measurements and growth rate ". Ankara Universitesi Ziraat Fakultesi Yilligi (1976), 26 (1): 107-120.
- Epstein, H. and Herz, A. (1964). Fertility and birth weights of goat in subtropical environment. J. Agric. Sci., 62: 237-244.
- Epstein, H. (1969). Domestic animals of China. Commonwealth Agriculture Bureaux, London.
- Esquivel, M.H. and Camara, S.R. (1992). In memorius del VIII Congreso Nacional AZTECA, 1 al 4 de Octubre 1991, Mexico, pp 69-74.
- Fabens, A.J. (1965). Properties and fitting of the von Bertalanffy growth curve. Growth, 29: 265-289.

- Falvey, L. (1978). Goat production in the northern Thailand highlands. *Thai J. Agric. Sci.* 10: 121-130.
- FAO (1988). *Production Yearbook Vol 43*, FAO Statistics Series Rome.
- FAO (1994). *Production Yearbook Vol 48*, FAO Statistics Series No. 106, Rome.
- FAO (1997). *Production Yearbook Vol 51*, FAO Statistics Series Rome.
- Feilding, D. (1980). Goat-keeping in Mauritius. *Z. Tierzuchtg. Zuchtgsbiol*, 97: 21-27.
- Fewson, D. (1974). Crossbreeding in farm animals. In *Proc. Working Symposium Breed Evaluation and Crossing Experiments*. Zeist, 1974.
- Fisher, R.A. (1937). *Statistical methods for research workers* Oliver and Boyd, Edinburgh.
- Foote, W.C. and Nelson, E.A. (1983). Technique and procedures for small ruminant breed improvement, IGSR, (1983): 122-129.
- Galal, E.S.E. (1987). Biological aspects of increasing production. In *Proc. 4th Int. Confe. on Goats*. (ed) P. Santana, A.G. da Silva and W.C. Foote, March, 1987, pp 625-642.
- Galal, E.S.E., Gebralul, S. and Feleke, G. (1977). Performance of first crop of lambs and kids. *Animal Prod. Bull.*, 2, Institute Agricul. Res., Addis Ababa, Ethiopia: 1-11.
- Galal, E.S.E. and Kebede, B. (1977). Performance of first crop Saanen crossbred kids. (Holetta Research station) *Animal Production Bulletin*, Institute of agricultural Research, Addis Ababa, No. 3, 8pp.
- Galina, M. and Silva, E. (1983). "Effect of body weight, age and season of parturition in the presentation of puberty in goats". IX Congreso Nacional de Buiatria. Puebla, Mexico. pp 342-346.
- Gall, c. (1969). Changes in selection characteristics in dairy cattle. *Dt. tierarztl. Wschr.* 76: 477-481.
- Gall, C. (1971). "Relationship between body conformation and milk yield in German Improved Fawn goats". In the *Conference Internationale de l'Elevage Caprin*, 17-19 Juillet, 1971, Tours, France.

- Gall, C. (1973). Relationship between body conformation and milk yield in German Improved Fawn goats. L'Institut Technique de l'Elevage Ovine al Caprine. pp 287-294.
- Gall, C. (1975). Milk Production from sheep and goats. World Anim. Rev. 13: 1-8.
- Gall, C. (1981). Milk production. (ed) C.Gall. Academic Press.
- Gall, C. (1981b). Milk production. In Goat Production. (Eds) C. Gall, Academic Press, pp 309
- Gamble, J.A., Ellis, N.R. and Besley, A.K. (1939). Composition and properties of goats milk as compared to cows milk. U.S.D.A. Tech. Bull. No. 671.
- Garcia, O., Verde, S.O. Castillo, J. and Peraza, F. (1972). "Reproductive performance of four imported goat breeds in the tropics". Memoria, Asociacion Latinoamericana de Produccion Animal, 11 pp. 69.
- Garcia, O., Garcia, A., Arangu, M. and Camacaro, A. (1977). "Genetic improvement in Venezuelan criollo goats by means of using males of European breeds". In Symposium sobre la cabra en los paises Mediterraneos, Malaga - Murcia - Granada (Espana), 3-7 Octubre 1977. Madrid, Spain. Comite Nacional Espanol de Zootecnia (1977), pp. 80-89.
- Gehr, P., Mwangi, D.K., Ammona, A., Maloiy, G.M., Taylor, C.K. and Weibel, E.R. (1981). Design of the mammalian respiratory system. V. Scaling morphometric pulmonary diffusing capacity to body mass:wild and domestic mammals. Resp. Physical. 44: 61-86.
- Gerona, G.R. and Posas, O.P. (1983). Goat production and management: The Visca experience. Paper presented at "Inter-Asia and Pacific Goat Production and Management Seminar", Oct. 11-15, 1983, SEARCA, UPLA, College, Laguna, Philippines, pp 21.
- Ghanekar, V.M., Bhatawadekar, S.D. and Gholap, L.D. (1973). Biometry study of Patanwadi x Deccani sheep. Indian Vet. J., 50 (5): 339-342.
- Gill, G.S. and Dev. D.S. (1972). Performance of two exotic breeds of goats under Indian conditions. Indian J. Anim. Prod., 3, (4): 173-178.
- Gipson, T.A. and Grossman, M. (1990). Lactation curves in dairy goats: a review. Small Ruminant Res. 3: 383-396.

- Godfrey, L., Sutherland, M. Boy, D. and Gomberg, N. (1991). Scaling of limb joint surface areas in anthropoid primates and others. *J. Zool. Lond.* 223: 603-625.
- Gould, S.J. (1966). Allometry and size in ontogeny and phylogeny. *Biol. Rev.* 41: 587-640.
- Gould, S.J. (1975a). Allometry in primates with emphasis on scaling and the evaluation of the brain. *Contrib. Primatol.* 5: 244-292.
- Gould, S.J. (1975b). On the scaling of tooth size in mammals. *Am. Zool.* 15: 351-362.
- Graham, M. (1956). Sea fisheries, their investigation in the United Kingdom, Arnold, London.
- Gribovski, V.A. (1956). Breeding highly productive wool goats. *Ovcevodstvo*, 6: 27-29. [Anim Breed Abstr. 25 pp. 61; 1957.]
- Grover, N.B., Block, M., and Crock, J. (1970). Computer analysis of growth of rats. *Growth*, 34: 145-152.
- Guha, H., Gupta, S., Mukherjee, A.K., Moulick, S.K. and Bhattacharya, S. (1968). Some causes of variation in growth rates of Black Bengal goats. *Indian. J. Vet. Sci.* 38: 269-278.
- Guney, O., Bicer, O. and Torun, O. (1992). Fertility, prolificacy and milk production in Cukurova and Taurus dairy goats under subtropical conditions in Turkey. Technical Note, *Small Ruminant Res.* 7: 265-269.
- Hadjipanayiatou, M. (1987). Studies on the response of lactating Damascus goats to dietary protein. *J. Anim. Phys. Anim. Nutr.*, 57: 41-52.
- Hafez, E.S.E. (1974). Reproduction in Farm Animals. (3rd Edn.), Lea and Febieger, New York.
- Hammond, J. (1952). Fertility. In Marshall's Physiology of Reproduction. (Eds) A.S. Parks, Longman, Green & Co., London, Vol. II, 3rd Ed., pp 648-740.
- Hammond, J. (1957). Hormones in meat production. *Outl. agric.*, 1: 230-234.
- Hammond, J. and Marshall, F.H.A. (1952). The life cycle. In Marshall's Physiology of Reproduction. (Eds) A.S. Parks, Longman, Green & Co., London, Vol. II, 3rd Ed., pp 793-846.

- Hancock, D.A. (1959). The biology and control of the American whelk *Urosalpinx ceneroa* (say) on English oyster beds. *Fishery Invest. Lond.*, 22, (10): 1-66.
- Hayden, P. and Gambino, J.J. (1966). Growth and development of a little pocket mouse *Perognathus longimembris*. *Growth* 30 : 187-197.
- Hayes, F.R. and Armstrong, F.H. (1943). cited by Brody, S. in "Bioenergetics and Growth", Hafner Publ. Co. Ltd., New York, 1023 pp.
- Heinlein, G.F.W. (1978). Dairy goat management. *J. Dairy Sci.* 61: 1011.
- Heinlein, G.F.W. (1987). Mineral and vitamin requirements and deficiencies. In *Proc. IV International Conference on goats*, Vol II, p 1249. Embrapa, Brasilia, Brazil.
- Henrotte, A. (1961). "A study of the goat papulation in the lower Congo". *Bull. Agric. Congo.* 52: 1279-1293.
- Hofmeyer, (1972). cited by Sands and Mc Dowell, 1978.
- Hoppeler, H.H., Mathiew, O., Weibel, E.R., Kraver, R., Lindstedt, S.L. and Taylor, C. R. (1981). Design of the mammalian respiratory system. VIII. Capillaries in skeletal muscles. *Resp. Physiol.* 44: 129-150.
- Horst, P., Peters, K.J. and Mukherjee, T.K. (1984). Research on the crossbreeding in goats in Malaysia for the improvement of reproductive and productive performance. Report: Recent Germanresearch on problems of parasitology, animal health and animal breeding in the tropics and subtropics. *Deutsche Forschungs-gemeinschaft*, Bonn, Republic of Germany, pp 119-129.
- Hussein, S.S.(1993). A study on the reproductive performance and genetic potential of Black Bengal goats. Diss. Bangladesh Agricultural UUniversity, Mymensingh, Bangladesh.
- Huxley, J.S. (1932). Problems of relative growth. Methuen, London.
- Hwang, J.C., Wen, S.H., Su, A.K. and Chang, H.J. (1990). Crossbreeding of Taiwanese native goats with Anglo Nubian. In *Proc. 5th AAAP Anim. Sci. Congr.*, Taipei, Taiwan, Vol. 3, VI :41
- Iftikhar-ud-Din, ch. (1979). "Management of Teddy Goats". Livestock Research Station, Bahadurnagar, Pakistan, mimeo. 27 pp.

- Iloeje, M.U. and Van Vleck, L.D. (1978). Genetics of dairy goats: a review. *J. Dairy Sci.* 61: 1521-1528.
- Inch, W.R., Mc Crede, J.A. and Sutherland, R.M. (1970). Growth of nodular carcinomas in rodents compared with multi-cell spheroids in tissue culture. *Growth*, 34: 271-282.
- Islam, M.R., Saadullah, M., Howlider, A.R. and Huq, M.A. (1991). Estimation of live weight and dressed carcass weight from different body measurements in goats. *Indian vet. J. Anim. Sci.* 61 (4): 460-461.
- Jacob, U. (1992). "Systematische Einflussfactoren auf Milch- und Wachstumskistung von DGFZ/GfT in Weißenstephan, 29-30 September, D 04.
- Jennes, R. (1980). Composition and characteristics of goat milk. Review, 1968-1979. *J. Dairy Sci.* 63: 1605
- Jiang, Y. (1986). China - some goat breeds. *World Anim. Rev.* 58:31-41.
- Jiang, Y., Au, M. and Wang, S. (1987). Goat production in China. In *Proc. 4th Inter. Confe. on Goats*. March 1987, Brasilia, Brazil, Vol. 1, pp 747-772.
- Journal Goat Breeders Society, London, (1980).
- Joubert, D.M. (1956). A study of prenatal growth and development in the sheep. *J. agric. Sci.*, 47: 382-427.
- Joubert, D.M. (1974). Goats in the animal agriculture of Southern Africa. *Z. Tierzuchtg. Zuchtgsbiol.* 90: 245-262.
- Jungers, W.L. (1985). *Size and Scaling in Primate Biology*. New York: Plenum Press.
- Kala, S.N. and Prakash, B. (1990). Genetic and phenotypic parameters of milk yield and milk composition in two Indian breeds. *Small Ruminant Res.* 3: 474-484.
- Kalaimathee, K. (1984). Evaluation of F1 crossbreds (local x German Fawn) for breeding soundness and effect of storage on semen quality. BSc. Thesis, Dept. of Genetics and Cellular Biology, University of Malaya.
- Kanaujia, A.S., Pander, B.L. and Sharma, J.S. (1989). First lactation milk production potential in Beetal and its crosses with Black Bengal. *Anim. Breeding Abs.* 57: abs 4998.

- Katsigianis, T.S., Wilson, L.L., Cathopoulos, T.E. and Dorset, A.A. (1979). Final Report: The performance of native and Anglo Nubian goats on North Andros Island, Bahamas. 1979 Animal Research Summary. The Pennsylvania State University, College of Agriculture, University Park, Pennsylvania.
- Keeping, G.S. (1951). A review of progress recorded in the upgrading and breeding of pedigree imported and local goats. *Mal. Agric. J.* 34: 32-39
- Khan, B.U. (1980). Studies on the variation in body weights due to non-genetic factors in Jamnapari goats. In *proc. First Annual Symposium of the Indian Society of Animal Genetics and Breeding on "Genetics and Livestock Development"*, Ajmer, 1-3 Feb., 1980.
- Khan, M.F., Rafiq, M. and Nuthani, M.I. (1992). Productive performance of Kajli and Kharasani goat breeds maintained on local rangelands of Baluchistan, Pakistan. In *Proc. 5th Inter. Goat Confe.*, New Delhi, India, pp 485-491.
- Khan, B.U. and Sahni, K.L. (1983). Non-genetic sources of variation on milk production traits in Jamnapari goats under semi-arid farm condition. *Ind. J. Anim. Sci.* 53: 776-778.
- Khan, B.U., Sinha, N.K., Singhal, R.A. and Sahni, K.L. (1979). Variability in body weight and size in Jamnapari kids at birth. *Indian J. Anim. Research*, 48, (1): 806-807.
- Khusahry et al., (1985). (Reported by Stemmer, 1993).
- Kidwell, J.F., Gregory, P.W. and Guilbert, H.K. (1952). A genetic investigation of allometric growth in Hereford cattle. *Genetics*, 37: 158-174.
- Kidwell, J.F. and Howard, A. (1969). The inheritance of growth and form in the mouse. I. A diallel analysis of weight from birth through ten weeks. *Growth*, 33: 269
- Kidwell, J.F. and Williams, E. (1956). Allometric growth of the dark Cornish fowl. *Growth*, 20: 275-293.
- Kidwell, J.F., Howard, A. and Laird, A.K. (1969). The inheritance of growth and form in the mouse. II. The Gompertz Growth Equation. *Growth*, 33: 339
- Knob, K.H. (1971). Fruchtbarkeit, Wachstum und Leistungen bei Sehaf und ziegen in einem nordindischen biotop, Vergleichende Untersuchungen. *Diss. Univ. Gießen.*

- Knoess, K. (1975). A preliminary report on studies to evaluate the performance of Adal goats and sheep. In Proc. 6th Ann. Res. Sem., 12-14 Nov. 1975, Addis Ababa: 113-116.
- Knowles, F. and Watkins, J.E. (1938). J. Dairy Res. 9: 153.
- Koratkhar, D.P. and Patil, V.K. (1982). Note on the relationship of mohair yield with body weight and body measurements in Agora goats. Ind. J. Anim. Sci., 52, (10): 973-974.
- Koul, G.L. and Biswas, J.C. (1987). Birth weight of Chegu breed of goat in Indian Pashmina goats. Indian J. Anim. Sci., 57: 1321-1323.
- Krause, G.F. (1963). Functional observations: A Biostatistical Study of Growth. Unpublished Thesis, Virginia Polytechnic Institute, Blacksburg, Virginia.
- Kropf, W., Narayan Prasad, R.A., Sharma, O.P., DeGroot, B. and Nieuwhof, G. (1992). A comparison of milk yield and reproductive performance of Sirohi goats with Alpine x Sirohi and Toggenburg x Sirohi crosses. Proc. of V Intern. Confe. on Goats, 2-8 March 1992, New Delhi, India, abstracts of contributory papers :59.
- Ladipo, J.K. (1973). Body composition of goat and characterisation of their fat depot. Ph.D. Thesis, Cornell University, U.S.A.
- Laird, A.K. (1965). Dynamics of relative growth. Growth 29: 249-263.
- Laird, A.K. (1966). Dynamics of embryonic growth. Growth, 30: 263-275.
- Laird, A.K. and Howard, A. (1967). Growth curves in inbred mice. Nature, 213: 6
- Laird, A.K., Barton, A.D. and Tyler, S.A. (1968). Growth and Time: An interpretation of allometry. Growth, 32: 347-354.
- Lampeter, W. (1970). Relationships of age and live weight with milk yield in German Improved Fawn does. Thesis, Ludwig-Maximilians University, Muunich, Germany.
- Laskey, J.F. (1972). Genetics of Livestock Improvement. Prentice-Hall. Inc. Englewood Cliffs, New Jersey.
- Lee, K.W., Choi, K.S., Tak, T.Y., Sul, D.S. and Lee, K.M. (1975). "Improvement of Korean native goats by grading up with Saanen II. Change in milk production of crosses

- of Korean native goats with Saanen. Korean J. Anim. Sci. (1975), 17, (1): 50-57.
- Lee, K.A., Wan Mohammad, W.E., Ng, L.H., Ng, F.C. and Phang, A.K. (1978). Performance of sheep and goats under rubber. Preprint No. 18. Presented at the Conference on Integration of Animals with Plantation Crops, 1978, Penang.
- Leonard, P. (1992). Extension services and the role of the goat in Ya'an city goat development. In Proc. 5th Int. Goat Confe., New Delhi, India, pp 475-484.
- Louca, A., Mavrogenis, A and Lawlor, M.J. (1975). The effect of early weaning on the lactation performance of Damascus goats and the growth rate of the kids. Anim. Prod. 20: 213-218.
- Luginbuhl, R., Kaufman, M. A. and Crum, L. (1985). SAS User's Guide: Statistics, Version 5 Edition. (Joyner, S. P. ed.). SAS Institute Inc. Box 8000, Cary. North Carolina, U.S.A.
- Luo, M.F. (1992). Present situations and development of dairy goats in China. In Proc. 5th Int. Goat Confe., New Delhi, India, pp 377-380.
- Mabrouk, M.M.S., El-Erian, A.F.M., Tohany, M.M. and El-Dweng, Y.A.A. (1989). Milk production on Zaraiby and Alpine goats. Anim. Breed. Abstr., Vol. 57, abs. 6722.
- Macalandag, E.C. (1983). The goat production project at the Ubay stock farm. Ubay, Bohol, Presented at "First Inter-Asia and Pacific Regional Workshop on Goat Production and Management Systems", 11-14 Oct., 1983, SEARCA, U.P., Los Banos, Laguna, Philippines. 3pp
- Macy, I.G., Kelly, H.J. and Sloan, R.E. (1983). The composition of milks. Nat. Academ. Sci., Nat. Res. Council, Washington, D.C., Publ. No 254.
- Mahmud, A. and Devendra, C. (1966). Repeatability of milk yield and birth weights of goats in Malaya. I. Milk yield and length of lactation. Exp. Agric. 2: 211-216.
- Mahmud, A. and Devendra, C. (1970). Repeatability of milk yield and birth weights of goats in Malaya. Trop. Agri. Trin., 47: 215-220.
- Malick, C.P., Kanaujia, A.S. and Pander, B.L. (1986). A note on the factors affecting pre-weaning growth in Beetal and Black Bengal kids and their crosses. Anim. Prod. 43: 178-182.

- Malins, I. (1971). Dairy Goats. A quick look at a growing industry. J. Agric. Victoria: 1-4.
- Marincowitz, G. (1971). Interrelationship of reproduction, production and behaviour in Angora goat females. S. Afr. J. Anim. Sci., 1: 73-76.
- Martin, T.G., Sales, D.I., Smith, C. and Nicholson, D. (1980). Phenotypic and genetic parameters for lamb weights in a synthetic line of sheep. Anim. Prod. 30: 261-269.
- Mason, I.L. (1988). A world dictionary of livestock breeds, types and varieties (3rd Ed.) C.A.B. International, Wallingford, Oxon, U.K.
- Mason, W.E. and Beilharz, R.G. (1970). Performance recording of beef cattle. J. Aust. Inst. agric. Sci., 136: 167-181.
- Masud, M. (1964). Black Bengal goat in East Pakistan. Agriculture Pakist. 15: 230-235. [ABA33, No. 2536, 1964]
- Mavrogenis, A.P. and Constantinou, A. (1983). Performance of Damascus goats bred as yearlings or as two-year olds. Technical Bulletin, Agricultural Research Institute, Nicosia, 45, pp 5.
- Mavrogenis, A.P., Louca, A. and Robinson, O.W. (1980). Estimates of genetic parameters for pre-weaning and post-weaning growth traits of Chios lambs. Anim. Prod., 30: 271-276.
- Mayaka, T.B., Tchoumboue, J., Manjeli, Y. and Tegua, A. (1995). Estimation of live body weight in West African Dwarf goats from heart girth measurement. Trop. Anim. Hlth. Prod., 28: 126-128.
- Mayers, M.H. (1960). Conditional contributions arising from variations of parameters in non-linear response functions. Unpublished thesis, Virginia Polytechnic Institute, Blacksburg, Virginia.
- Mazumdar, N.K. and Mazumdar, Asha. (1983). Breed characteristics of some Indian Pashmina goats. Indian J. Anim. Sci., 53: 779-782.
- Mba, A.U., Boyo, B.S. and Oyenuga, V.A. (1975). Studies on the milk composition of West African dwarf, Red Sokoto and Saanen goats at different stages of lactation. 1. Total solid, butterfat, solids-not-fat, protein, lactose and energy contents of milk. J. Anim. Res. 42: 217-226.
- Mc Cormick, M.J., Low, P.J. and Ashworth, M.A. (1972). Analysis of the relative contributions of the proximal

and distal epiphyseal plates to the growth in length of the tibia in New Zealand White Rabbit. Growth, 36: 133-134.

- Mc Dowell, R.F. and Bove, L. (1977). The goat as a producer of milk. Cornell International Agriculture, mimeo. 56, Department of Anim. Sci., Ithaca, New York, 40pp.
- Mc Gregor, B.A. (1980). Growth and composition of wether goat carcasses . In Proc. Austral. Soc. Anim. Prod.
- Mc Mahon, T.A. and Bonner, J.T. (1985). On size and life, New York: Freeman.
- Mc Meeken, C.P. (1959). Principles of Animal Production. Whitcombe and Tombs, Christchurch, 3rd Ed. 318 pp
- Metz, T. (1990). Milk production of Malaysian Katjang and German Fawn x Katjang goats estimated by the kid suckling method. Diss. Tech. Univ. Berlin.
- Metz, T., Horst, P. and Mukherjee, T.K. (1985). Assessment of milking ability in meat type goats. In Proc. 3rd AAAP Anim. Sci. Congr., Seoul, Korea, pp 310-311.
- Mishra, R.R. (1977). Managemental Practices for Goats. National Dairy Research Institute. Karnal, Publication No. 147: 5-30.
- Mishra, R.R. (1978). Management Practices for Goats. National Dairy Research Institute, Karnal, Haryana. Publication No. 147.
- Mishra, R.R., Bhatnagar, D.S. and Sundaresan, D. (1976). Heterosis of various economic traits in Alpine x Beetal crossbred goats. Indian J. Dairy Sci. :
- Mishra, R.R., Chawla, D.S. and Sundaresan, D. (1978). Goats at National Dairy Research Institute. Publication No. 159, National Dairy Research Institute (I.C.A.R.), Karnal, India.
- Mishra, R.K., Gour, D. and Rawat, P.S. (1982). Note on the effect of foetal genotype and season of kidding on lactation performance of Sirohi does. Indian J. Anim. Sci., 52 (8): 712-713.
- Mishra, P.K. and Patro, B.N. (1983). Factors affecting the sex ratio at birth in Ganjam goats. Ind. J. Anim. Sci., 53, (3):336-337.
- Mittal, J.P. (1979). A study on birth weight of Barbari and Jamnapari kids. Indian J. Anim. Sci., 49, (1): 45-47.

- Mittal, J.P. (1979). A note on the effect of certain growth attributes on milk production traits in Barbari goats. *Indian J. Anim. Sci.*, 49, (9): 757-759.
- Mittal, J.P. (1988). Breed characterization of Marwari goat in arid western Rajasthan. *Indian J. Anim. Sci.* 58: 357-361.
- Mittal, J.P. and Pandey, M.D. (1974). Growth rate of Barbari and Jamnapari kids from birth to 4 months of age. *Agra university J. Res. Sci.* (1974 publ. 1975), 23, (1): 67-70.
- Mittal, J.P. and Pandey, M.D. (1978). A study on growth rate in Barbari kids. *Indian Vet. J.*, 55: 470-474.
- Mohammed, H.H. (1984). Energy requirements for maintenance and growth: comparison of goats and sheep. Ph D. Thesis, University of Reading.
- Mohammed, I.D. and Amin, J.D. (1996). Estimating body weight from morphometric measurements of Sahel (Borno White) goats. *Small Ruminant Research*, 24: 1-5.
- Mohd. Khusahry, M.Y., Abdul Wahid, S. and Ahmad Shukri, O. (1981). Comparative pre-weaning growth performance of crossbred kids. *Mal. Vet. J.*, (1981), 7 : 29-36.
- Montemurro, O. (1966). "Growth of kids in the first 40 days of life". *Annals Fac. Agr. Univ. Bari*, 20: 1-17.
- Morand-Fehr, P., Falagen, A., Rubino, R., Mowlen, A. and Skjevdal, T. (1992). Goat meat production and processing in Europe. In *Proc. V Inter. Goat Confe.*, New Delhi, India. pp 473-486.
- Morand-Fehr, P. and Sauvant, D. (1978). Nutrition and optimum performance of dairy goats. *Livestk. Prod. Sci.* 5: 203-213.
- Morand-Fehr, P. and Sauvant, D. (1980). Composition and yield of goat milk as influenced by nutritional manipulation. *J. Dairy Sci.*:1671-1680.
- Moullick, S.K., Guha, H., Gupta, S., Mitra D.K. and Bhattacharya, S. (1966). Factors affecting multiple births in Black Bengal goats. *Indian J. Vet. Sci. and Anim. Husb.*, 36, (3): 154-163.
- Moullick, S.K. and Syrstal, O. (1970). Genetic and environmental causes of variation in birth weight of Black Bengal goats. *J. Agric. Sci. Camb.*, 74: 400-414.

- Mudgal, V.D. (1992). Utilization of untapped resources for goat production. In Proc. V Int. Confe. on Goats, New Delhi, India, 2-8 March, 1992.
- Mukherjee, D.K. (1978). A study on estimates of phenotypic parameters of some economic characters in Grey and Brown Bengal goats of Bihar. M. Sc. Thesis, Rajendra Agricultural University, Bihar, India.
- Mukherjee, D.K., Singh C.S.P. and Mishra, R.R. (1979). A note on some phenotypic parameters in Grey and Brown Bengal goats. Indian J. Anim. Sci., 49, (8): 671-673.
- Mukherjee, T.K. (1980). Animal genetic resources in Malaysia. In proc. of SABRAO workshop on Animal Genetic Resources in Asia and Oceania. Tropical Agriculture Research Center, Japan., 261-311.
- Mukherjee, T.K. (1991). Crossbreeding for genetic improvement of local goats - innovative results. In Proc. Goat Husbandry and Breeding in the Tropics. (eds) Panandam, Sivaraj, Mukherjee and Horst, University of Malaya, Kuala Lumpur, pp 34-52.
- Mukherjee, T.K. (1992). Improvement of goats in the tropics through genetic and biotechnological methods. Pre-conference proceedings, Plenary papers and invited lectures. V Inter. Confe. on Goats, New Delhi, India, 2-8 March, 1992.
- Mukherjee, T.K. and Horst, P. (1983). Performance of local and F1 (local x German Improved Fawn) goats. In Proc. 5th World Confe. of Animal Production., Tokyo, Vol. 2: 65-66.
- Mukherjee, T.K., Peters, K.J., Banumathi, T., Deichert, G. and Horst, P. (1982). Crossbreeding as a tool for overcoming the antagonism between fecundity and weaning ability with goats under tropical conditions. Paper presented at the 3rd Int. Confe. on Goat Production and Disease, 10-15 Jan. 1982, Tucson, Arizona, U.S.A.
- Mukherjee, T.K., Sivaraj, S. and Panandam, J.M. (1991). Goat Production in Malaysia. In Proc. Goat Production in the Asia and The Humid Tropics, May 28-31, (1991), Hat Yai, Thailand, pp 7-14.
- Mukherjee, T.K., Devendra, C., Stemmer, A. and Horst, P. (1994). Genetic and nutrition aspects of milk production from small ruminants in the Asian region. In Proc. symposium "Strategic development for small ruminant production in Asia and the Pacific", Denpasar, Bali, Indonesia, July 11-16, 1994: 63-76.

- Mukundan, G. (1976). Goat Breeding (milk). Progress report for period ending 31st January 1976 at Kerala Agriculture University. In Proc. Second Workshop on All India Coordinated Research Project on Goat Breeding held at NDRI, Karnal, 22-23 March, 1976.
- Mukundan, G. (1980). Genetics studies of some economically important production characteristics in Malabari breed of goats and its exotic crosses. Ph. D. Thesis, Rohilkhand University, Bareilly, U.P. India.
- Mukundan, G. and Bhat, P.N. (1978). Genetic parameters of production traits in Malabari goats and their crosses with Saanen and Alpine. In 6th International Congress of Genetics, Moscow, 21-23 August, 1978. Contributed paper sessions. Abstracts. Part 1. Continuation, Section 13-20, Moscow, USSR, Nauka. (1978) pp. 526.
- Mukundan, G., Bhat, P.N. and Khan, B.U. (1981). Genetic analysis of birth weight in Malabari breed of goat and its half-breds. Indian J. Anim. Sci. 51: 630-634.
- Mukundan, G., Bhat, P.N. and Khan, B.U. (1982). Variation in body weight gains in Malabari goats and their Saanen half-breds in humid tropics. Ind. J. Anim. Sci. 52, (12): 1193-1197.
- Mukundan, G., Bhat, P.N. and Khan, B.U. (1983). Milk production traits in Malabari goats and their Saanen half-breds. Ind. J. Anim. Sci. 53: 1025-1027.
- Museio, A., Celi, R., Bufano, G., Marsico, G. and Centoducati, P. (1992). Live weight, prolificacy and milk yield of grazed and confined Garganica goats. In Proc. 5th Int. Goat Confe., New Delhi, India, pp 386-388.
- Nair, B.R.K. and Marhai, E. (1979). Effects of certain genetic factors on the secondary sex ratio in goats. Kerala J. vet. Sci., 10, (1): 1-8.
- Nath, I. and Chawla, D.S. (1978). A study of Beetal, Alpine and Beetal x Exotic cross-bred kids. Indian vet. J., 55, (4): 306-309.
- Ngere, L.P., Adu, I.F. and Okubanio, I.O. (1984). The indigenous goats of Nigeria. Anim Gen. Res. Int. No. 3: 1-9.
- Nishida, T. and Hayashi, Y. (1972). Morphological and genetical investigations on the native livestock in Taiwan - 4th trip (1971). Report of the research group on the native farm animals in Eastern Asia, No. V, (1972): 67-109.

- Nitter, G. (1975). Vourlofige Ergebnisse mit der Intensivmast von Ziegerlammern, kleinviehzuchter, 23: 316
- Nolte, M.E. (1977). "Reproductive parameters in semi-intensively managed goats in the mountains of central Peru". In Syrnium sobre la cabra en los paises Mediterraneos, Malaga-Murcia-Gradana (Espana), 3-8 Octubre, 1971. Madrid, Spain. Comite Nacional Espanol de Zootecnia (1977) pp. 327-328.
- Noraidah, I. (1986). Growth curves and carcass yield of purebreds and crossbred goats. Paper presented at one day seminar 'Kesan Teknik Projek Pembiakan Kambing, IPT, ke atas Perkembangan Ternakan Haiwan di Malaysia', Institute of Advance Studies, U.M., Kuala Lumpur.
- Noraidah, I., Sivraj, S. and Mukherjee, T.K. (1987). Growth curves of the purebred and crossbred goats. Malays. Appl. Biol., 16 (1): 195-204.
- Nozawa, K. (1974). "Morphology and Morpho-genetics of the Thai Goats". Rep. Soc. Res., Native Livestock, 6: 113-121, 184-185 (in Japanese with English summary).
- NRC-National Research Council. (1981). Nutrient requirements of goats. Nat. Academy Sci., Washington D.C. vii + 91pp
- NRC-National Research Council. (1985). Nutrient requirements of sheep. Nat. Academy Sci., Washington D.C.
- Obst, J.M., Boyes, T. and Chaniago, T.D. (1980). Reproductive performance of Indonesian sheep and goats. Proc. Auust. Soc. Anim. Prod. 13: 321-324.
- Olson, L.W., Dickerson, G.E. and Glimp, H.A. (1976). Selection criteria for intensive market lamb production: Growth traits. Anim. Sci., 43: 78-89.
- Orlynskii, V.A. and Zaporozhtsev, E.B. (1972). Milk production - an important selection character in Don goats. Ovtsevodstvo, 1: 27-29.
- Osman, A.H. and Bradford, G.E. (1965). Effects of environment on phenotypic and genetic variation in sheep. J. Anim. Sci., 24: 766-774.
- Palma, J.M. and Galina, M.A. (1995). Effect of early and late weaning on the growth of female kids. Small Ruminant Research 18: 33-38.
- Panandam, J.M. (1992). Genetic and Phenotypic estimates of growth and reproduction traits in the local and crossbred (local x German Improved Fawn) goats. Diss. University of Malaya, Kuala Lumpur, Malaysia.

- Pant, K.P. (1968). Studies on birth weight, mohair yeild and mohair fibre length of Angor and Angor x Gaddi goats. Indian. Vet. J. 45: 929
- Paramsothy, K. (1957). Goat breeding at the Central Animal Husbandry Station, J. Malay. vet. Med. Ass., 1: 144-150.
- Park, C.S., Lee, K.W. and Sul, D.S. (1977). "Improvement of Korean native goats by grading up with Saanen. 3. Changes in the body conformation of crossbreds between Korean native goats and Saanens". Research Reports of the Office of Rural Development, Suwon Livestock, 19: 59-62.
- Patterson, H.D. (1956). A simple method for fitting an asymptotic regression curve. Biometrics, 12: 323-329.
- Paul, D.L. (1944). Live weight of goats by measurement. Indian Fmg., 5: 170-172.
- Pegg, S.E. (1957). Production recording of goats. Qd. Agric. J. 83: 659-660. [ABA 26, No. 878, 1957].
- Perkkio, J. and Keskinen, R. (1985). The relationship between growth and allometry. J.Theor. Biol., 113: 81-87.
- Peters, K.J. (ed.). (1980). Goat production in low income economic units of selected areas in West Malaysia. Schriften des seminars fur landwirtschaftliche Entwicklung, Tech. Univ. Berlin, Band 27.
- Peters, K.J. and Deichert, G. (1984). Pattern of goat production in low-income economic units of Peninsular Malaysia. World Anim. Rev. 51: 44-50.
- Peters, K.J., Mukherjee, T.K. and Abdul Wahid, S. (1986/87). The importance of goats for the production of meat and milk for human consumption. Malaysian vet. J., 8 (3&4): 210-216.
- Prakash, C., Acharya, R.M. and Dhillon, J.S. (1971). Sources of variation in milk production in Beetal goats. Indian J. Anim. Sci. 41: 356-360
- Prakash, S. and Jenness, R. (1968). The composition and characteristics of goats' milk : a review. Dairy Sci. Abstr., 30: 67
- Prakash, C. and Khanna, R.S. (1972). Effect of order of lactation and lactation length on milk production in a closed herd of Beetal goats. Indian J. of Anim. Prod., 2 (4): 10-13.

- Prasad, V.S.S. and Bhattacharya, N.K. (1990). Goat - A potential animal for meat and milk. *Asian Livestock*, 15 (10) : 116-120.
- Prasad, S.P., Roy, A. and Pandey, M.D. (1971). Effect of age, body weight, parity and season on the reproductive performance of Barbari goats. *Agra Univ. J. Res. (Science)* (1971 pulb. 1972), 20, (1): 31-39.
- Prasad, S.P., Roy, A. and Pandey, M.D. (1971). Live weights and growth in Barbari kids up to one year of age. *Agra Univ. J. Res. (Science)*, (1971 publ. 1972), 20, (2): 45-54.
- Pretorius, P.S. (1970). Effect of aggressive behaviour on production and reproduction in the Angora goats. *Agroanimalia*, : 161-164. [*Anim Breed. Abstr.*, 40 pp. 315; 1972].
- Prucoli, J.O., Kolil, E.B., Roda, D.S. and Santos, L.E. (1981). "Growth of Anglo Nubian, Toggenburg and Maxoto kids from birth to one year of age at the Itapetiniga Sheep and Goat Station in Sao Paulo". *Boletim de Industria Animal*, 30: 187-203.
- Pu, J., Liu, X. and Pelant, R. (1987). Crossbreeding for milk production in Sichuan province, China. In *Proc. 4th Int. Conf. on goats*, 8-13 March, 1987, Brasilia, Brazil, Vol. 2: 1445.
- Quartermain, A.R. (1973). Aspects of the biological efficiency of the Zambian goat. In *III World Conference on Animal Production. Pre. conference vol. 2. Presented papers-Themes 1 & 3*, Melbourne, Australia (1973) ,1, (b): 26-31.
- Quartermain, A.R. (1979). Evaluation of native breeds of goat and their crosses in the SABRAO region. *Mimeo*. 34 pp.
- Quartermain, A.R. (1991). Evaluation and utilization of goat breeds. *Genetics Resources of pig, sheep and goat*. (ed. by K. Maijala). *World Animal Sciences B8*: 451-469.
- Raats et al., (1983), cited by Casey and van Niekerk, 1988.
- Radway Allen. (1966). A method of fitting growth curves of the von Bertalanffy type to observed data. *J. Fish Res. Bol. Can.*, 23: 163-179.
- Rajendram, S. and Pillai, A. (1976). Observations on the goat industry in Selangor. Paper presented at Mal. Vet. Asso. Conf., K. Lumpur. 4-6 Dec. 1976.

- Rako, A. (1950). " Performance of crosses between indigenous and Saanen goats". Schweiz. Arch. Tierheilk., 92: 305-320.
- Rako, A., Mikuke, K., Karadjole, I. and Krizanovic, D. (1979) "Breeding the Bokovica goats, and its improvement". Stocarstvo, 33, (1-2): 37-41.
- Rana, Z.S. (1980). Genetic studies on the performance of Beetal and its crosses with French Alpine and Anglo Nubian breed of goats. Thesis abstract, Haryana Agricultural University, 6, (1): 4-5.
- Rao, C.R. (1958). Some statistical methods for comparison of growth curves. Biometrics, 14: 1-17.
- Ratray, P.V., Garret, W.N., East, N.E. and Hirman, N. (1974) Growth, development and composition of the ovine conceptus and mammary gland during pregnancy. J. Anim. Sci., 38: 613-626.
- Reddy, M.R. (1990). Status of animal feed resources of India. In Proc. V AAAP Animal Science Congress, May 27-June 1, 1990, Taipei, Taiwan, pp 110.
- Ricordeau, G. (1981). Genetics: Breeding Plans. in: Gall, C. (ed.), Goat Production, Academic Press, London.
- Ricordeau, G., Wiggins, G.R., Serrodilla, J.M., Khan, B.U., Sanchez, G.F., Mavrogenis, A.P., Misra, R.K. and Manfredi, E.J. (1992). Breeding plans for milk and meat production. In Proc. 5th Int. Goat Confe., New Delhi, Vol 2, Part 1, Pre conference proceedings, pp 85-99.
- Rohrs, M. (1961). Allometrie forschung and biologische formanalyse. Zschr, Morphol. Anthropol., 51: 289-321.
- Ronnigen, K. (1965). " Causes of variation in the flavour intensity of goat milk". Acta. Agric. Scand., 15: 301-342.
- Roy, R., Singh, S.K. and Khan, B.U. (1992). Milk yield of Jamnapari goats. In Int. Confer. on Goat Production, New Delhi, India, March 2-8, 1992, pp648-651.
- Rubino, R., Moioli, B., Fedele, V., Pizzillo, M. and Morand-Fehr, P. (1995). Small Ruminant Res. 7: 213-221.
- Ruvuna, F., Cartwright, T.C., Blackburn, H., Okeyo, M., and Chema, S. (1988). Gestation length , birth weight and growth rates of purebred indigenous goats and their crosses in Kenya. J. Agric. Sci., Cambridge 111: 363

- Ruvuna, F., Cartwright, T.C., Smith, G.M., Bradford, G.E., Berger, Y.M., Acharya, C. and Muia, J. (1983). Preliminary results of performance of different breeds of goats at ol'Mogogo. In Proc. 2nd SR CRSP Kenya Workshop, Naivosha, pp: 83-98.
- Sacker, G.D. and Trail, J.C.M. (1966). Production characteristics of a herd of East African Mubende goats. *Trop. Agric. Trin.*, 43: 43-51.
- Sachdeva, K.K., Sengar, O.P.S., Singh, S.N. and Lindahl, I.L. (1974). Studies on goats. 2. Effect of plane of nutrition on milk production and composition. *Milchwissenschaft* 29: 471-475.
- Sada, I. and Vohradsky, F. (1973). West African Dwarf goat in Ghana. 2 growth rate and selection criteria. *Sbornik Vysoke Skoly Zemeddske v Praze, Institut Tropickeho a Subtropickeho Zemeddstvi*, 6 pp. 173-185.
- Sahni, K.L. and Chawla, D.S. (1982). Crossbreeding of dairy goats for milk production. In Proc. III World Congress on Goat Production. Tucson, Arizona.
- Sakul, H., Bradford, G.E. and Subandriyo. (1994). Prospects for genetic improvement of small ruminants in Asia. In Proc. symposium "Strategic development for small ruminant production in Asia and the Pacific" Denpasar, Bali, Indonesia, July 11-16, 1994: 3-13.
- Sands, M. and Mc Dowell, R.E. (1978). The potential of the goat for milk production in the tropics. Cornell International Agriculture Mimeograph No. 60, Cornell University, Ithaca, New York.
- Sands, M. and Mc Dowell, R.E. (1979). A world bibliography on goats. Cornell International Agriculture Mimeograph No. 70, Cornell University, Ithaca, New York.
- Sharma, H.K., Thakuria, K., Sarmah, P.C., Borah, H.P., Mohan, Moud Pant, K.P. (1981). Note on growth of Assam local goats. *Ind. J. Animal Sciences*, 51, (6): 669-672.
- Sharma, H.K., Aziz, A., Konwar, B.K., and Pant, K.P. (1984). Studies on body weight and body measurements of Assam local x Beetal kids of preweaning age. *Indian vet. J.* 61, (10): 878-882.
- SAS Institute Inc. (1987). SAS/STAT guide for personal computers, Version 6th Edition. SAS Institute Inc., Cary N.C.
- Schadlick, R. (1964). Investigation on relationship between milk production and various body measurements in German

- Improved Fawn goats. Vet. Med. Dissertation, Tierarztl. Fak. Ludwig Maximilians-Univ., Munich.
- Schmidt-Nielsen, K. (1984). Scaling: Why is animal size so important?. Cambridge: University Press.
- Scott, K.M. (1985). Allometric trends and locomotor adaptations in the bovidae. Bull. Am. Mus. Nat. Hist. 179: 197-288.
- Scott, K.M. (1987). Allometry and habitat-related adaptations in the postcranial skeleton of cervidae. In C. Wemmer (ed): The Biology and Management of the cervidae. Washington, D.C.: Smithsonian University Press: 65-80.
- Seber, G.A.F. and Wild, C.J. (1989). Nonlinear Regression. New York: John Wiley.
- Seebeck, R.M. (1968). Development studies on body composition. Anim. Breed. Abst., 36: 167-181.
- Seebeck, R.M. and Campion, E.J. (1964). The application of body weight data to performance testing of beef cattle. Aust. J. agric. Res., 15: 471-489.
- Selvaraj, O. (1997). Genetic variation of native goats of South East Asia, Sri Lanka and Australia. Ph.D. Thesis, University of Malaya, Kuala Lumpur, Malaysia.
- Sengar, O.P.S. (1979). Goat breeding and management for meat production. Presented at the International Workshop on development of goats in Asia, NDRI, Karnal, India, 5-11 March, 1979, Mimeo. 31pp
- Seth, O.N., Saraswat, K.C., Chorev, P.A., Naithani, S.P. and Roy, A. (1968). The effect of alteration in management practices on kidding percentage and lactational performance of Barbari goats as well as on the survival of new born kids. Indian J. vet. Sci. 38: 93-100.
- Shalash, M., Mousa, A., Nawito, M., Farrac, H.F., Oof, F., Selim, M.K. and Tawfiq, M.A. (1970). Economic evaluation of some goat breeds in Egypt. Veterinary Medical J., UAR, 18: 295-312.
- Shohogi, T. and Sasaki, H. (1987). An aspect of growth and analysis of weight in savannah baboon. II. Gender comparison by adjusting age. Growth. 1987, 51: 425-431.
- Shelton, M. (1961). Kidding behaviour of Angora goats. Texas Agr. Exp. Sta. PR-2570.
- Shelton, M. (1986). Breed use and crossbreeding in goat production. In proc. 3rd World Congress on Genetics

Applied to Livestock Production, IX. Breeding programs for dairy and beef cattle, water buffalo, sheep and goats, Lincoln, Nebraska, USA, 16-22 July, 1986.

Siddiquis, M.F., Bonde, H.S., Rotte, S.G. and Deshpande K.S. (1981). Studies on some growth attributes of Osmanabadi goat kids. *J. Agric Science, U.K.* 97, (3) : 747-749.

Sidhar, H.C., Gangwar, P.C., Gill, G.S. and Arora B.S. (1978) Effect of castration on growth rate in goats. *Indian vet. J.*, 55: 767-770.

Sikov, M.R. and Thomas, J.M. (1970). Prenatal growth in rat. *Growth*, 34: 1-14.

Singh, B.B. (1973). Study of Factors causing variation in birth weight of Jamnapari kids. *Indian vet. J.*, 50, (11): 1103-1106.

Singh, V.B. (1976). Some observations on Jamnapari goats and their crosses with Toggenburg. Balwant Vidya Peeth J. of Agricultural and scientific Research, XVIII, (2): 82-85.

Singh, B.B. (1977). Relative growth in Gaddi and development of Angora cross Gaddi kids. *Indian J. Anim. Hlth.*, 14, (2): 141-145.

Singh, S.N. and Sengar, O.P.S. (1970). Investigation on milk and meat qualities of Indian goats. Final Technical Report PL-480, Project on Goats, Departement of Animal Husbandry and Dairying. R.B.S. College, Bichpuri, Agra.

Singh, S.N. and Sengar, O.P.S. (1990). Breed variation in the onset of sex play and puberty in male kids. Final Technical Report, PL-480 Research Project, R.B.S. College, Bichpuri, Agra, India.

Singh B.B. and Singh B.P. (1974). Performance of Jamnapari goats. *Ind. vet. J.*, 51, (5): 322-326.

Singh, L.N., Sengupta, B.P. and Rawat, J.S. (1970). Studies on certain biochemical constituents of buffalo semen. *Indian J. Anim. Sci.* 40 (1): 1-8.

Singh, C.S.P., Mishra, H.R., Singh, S.K., Mukherjee, D.K. and Prasad, B. (1977). A study on birth weight of pure and cross bred kids. *Indian J. Anim. Sci.*, 47: 592-594.

Singh, C.S.P., Mishra, H.R., Sharma, B.D., Mukherjee, D.K. and Singh, D.K. (1979). A note on body measurements of Black Bengal goats. *Indian J. Anim. Sci.*, 49, (8): 669-671.

- Singh, N. and Mudgal, V.D. (1991). Protein requirements of lactating Beetal goats. *Small ruminant Research* 4: 137.
- Singh, R.N., Acharya, R.M. and Biswas, D.K. (1970). Evaluation of genetic and non-genetic factors affecting some economic traits in goats. *Acta. Agric. Scand.*, 20: 10-14.
- Singh, R.N., Acharya, R.M. and Biswas, D.K. (1970). Selection Index for goats - expected, direct and correlated responses. *Acta. Agric. Scand.*, 20: 61-64.
- Sinha, N.K. and Sahni, K.L. (1983). Birth weight of Indian goats. *Indian J. Anim. Sci.* 53: 435-437.
- Sirry, I. and Hassan, H.A. (1954). Composition of goat milk in Egypt. *Indian J. Anim. Sci.*, 7: 188
- Sitorus, S.S. (1990). Utilization of rubber seed cake supplemented with napier grass for goats. In *Proc V AAAP Animal Science Congress*, May27-June1, 1990, pp 146.
- Snedecor, G.W. (1956). "Statistical Methods", Iowa Press, Iowa.
- Snedecor, G.W. and Cochran, W.G. (1967). *Statistical Methods*. 6th edn. pp 230-263. Oxford and IBH publishing Co. New Delhi, India.
- Snedecor, G.W. and Cochran, W.G. (1980). *Statistical Methods*, 7th edn. Iowa State University Press, USA, 507pp.
- Soejana, T.D. (1994). Market opportunities for small ruminant sector of Asia. In *Proc. symposium "Strategic development for small ruminant production in Asia and the Pacific"*, Denpasar, Bali, Indonesia, July 11-16, 1994: 63-76.
- Soenmetz et al., (1974). cited by Bhattacharya, 1980.
- Soenmez and Sengonca (1964). cited by Bhattacharya, 1980.
- Stahl, W.R. and Gummerson, J.Y. (1967). Systematic allometry in five species of adult primates. *Growth*, 31: 21-34.
- Stotz, D.R. (1981). Dairy goats or dairy cattle? A smallholder farm management analysis. Working paper No. 2, Ministry of Livestock Development, Nairobi, Kenya.
- Steele, R.G.D. and Torrie, J.H. (1980). *Principles and Procedures of Statistics*. Mc Graw-Hill Book Co., New York, UUSA, 481pp.

- Steinbach, J. (1987). Evaluation of indigenous and exotic breeds and their crosses for production in unfavourable environments. In Proc. 4th Inter. Goat Confe. (ed) P. Santana, A.G. da Silva and W.C. Foote, March 1987, pp 625-642.
- Stemmer, A. (1993). Comparative study of indigenous Malaysian and crossbred goats' suitability for a milk production system. Dissertation Technische Universitat Berlin, Berlin. pp 183.
- Stevens, W.L. (1951). Asymptotic regression. *Biometrics*, 7: 247-267.
- Tandon, H.S. (1966). Relationship of body weight with body measurements in Beetal goats. *Indian J. Dairy Sci.*, 19: 187-190.
- Taneja, G.C. (1982). Breeding goats for meat production. In Proc. III International Conference on Goat Production and Disease, Jan. 10-15, Tucson, Arizona, USA, pp 27-30.
- Teissier, G. (1948). La relation d'allometrie. *Signification Statistique et Biologique. Biometrics*. 4: 14-53.
- Thurley, D.C., Ruefeim, K.J.A. and Wilson, D.A. (1973). Growth of the Romney sheep fetus. *New Zealand J. Agric. Res.*, 16: 111-114.
- Tizikara, C. and Chiboku, O. (1988). Relationship between size, conformation and reproductive traits in West African Dwarf ewes. *Turrialba*, 30 (1): 1-12.
- Trieb, G., Pappritz, G. and Lutzen, L. (1976). Allometric analysis of organ weights. I. Rats. *Toxicol. Appl. Pharmacol.* 35: 531-542.
- Tsonchev, D. (1974). "Growth and development of Bulgarian and Bulgarian White Dairy goats". *Zhivotnov "dui Nauki*, 11, (3): 41-47.
- Tsonchev, D. and Donchev, P. (1978). "The relationship of body weight with milk production in Saanen and the new Bulgarian White Dairy goats". *Zhivot dui Nauki*, 15, (3): 76-80.
- Tyler, S.A. and Norris, W.P. (1968). An algorithm for selecting acceptable animals from a colony of beagles. *Growth*, 32: 235-253.
- Ueckerman, L., Joubert, D.M. and Steyn, van d G.J. (1974). The milking capacity of the Boer goat does. *World Rev. of Anim. Prod.* 10: 73-83.

- Ulberg, L.C. and Rampacek, B.R> (1974). Embryonic and foetal development. Uterine components and influences. J. Anim. Sci., 38: 1013-1017.
- Underwood, E.J. (1966). The Mineral Nutrition of Livestock. Commonwealth Agricultural Bureaux, London.
- Underwood, E.J. (1977). Trace Elements in Human and Animal Nutrition. (4th Ed). Academic Press, N.York.
- Valdez, C.A. (1983). Goat production in the Philippines. Pres. "First Inter-Asia and Pacific Regional Workshop on Production and Management Systems", 11-14 Oct. 1983, SEARCA, U.P. Los Banos, Laguna, Philippines. 14pp
- Valdez, C.A., Pagan, D.V. and Vicara, I.B. (1982). The correlation of body weight to external body measurements in goats. The Philippines J. Anim. Industry, 37: 62-79.
- Wilson, R.T. (1987). Livestock production in central Mali: Environmental factors affecting weight in traditionally managed goats and sheep. J. Agric. Sci. 100: 625-628.
- Wilson, L.L. and Katsigianis, T.S. (1980). Performance of native and Anglo-Nubian crosses and observations on improved pastures for goats in the Bahamas. Tropical Agriculture, Trinidad, 57, (2): 183-190.
- Yadav, B.S., Yadav, M.C. and Sengar, O.P.S. (1983). Factors affecting milk production in goats. Ind. J. Anim. Sci.: 1341-1342.
- Yamane, J. (1943). " Animal Husbandry of the East Indies", Yoken-do, Tokyo, pp 778, (in Japanese).
- Zeuner, F.E. (1963). A History of Domesticated Animals. Hutchison, London, pp 560.
- Zonderkin, A.I. (1952). Breeding goats for mohair in Kazakhstan Socialist. Zivolin., 14: 72-75. [Anim. Breeding Abstract, 21, pp. 165; 1953].