Effect of sole feeding of tree leaves and green forages on nutrient utilization, growth and feed conversion efficiency in growing kids

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An experiment was conducted to observe the effect of feeding Series (Albizia lebbek), Dumer (Ficus glomerata) and Sudan grass (Sorghum sudananse) on nutrients utilization, feed conversion efficiency and growth performance in growing kids. Fifteen growing Barbari crossbred kids divided into 3 groups of 5 animals in each group. The kids of group I and II were fed with Series, Dumer, tree leaves adlib respectively whereas the kids of group III were fed with sudan grass for a period of 90 days. At the end of 45 days feeding, a metabolic trial was conducted. The digestibility coefficient of DM was 55.15, 54.19, 59.34 percent in group I, II and III respectively which was significantly higher (P<0.05) in group III than the other two groups. Digestibility coefficient of NFE, CF, OM and TCHO were found to be different (P<0.05) where as digestibility coefficient of ether extract and crude protein were similar in the three groups. Dry matter intake (g/d) was 489.28, 401.96 and 827.55 in group I, II and III respectively which was found to be higher (P<0.05) in group III than other two groups. Feed gain ratio (gm/day) revealed that the Dumer (Ficus glomerata) tree leaves fed group I had the highest feed conversion efficiency (2.62 : 1g) followed by the Series (Albizia lebbek) tree leaves fed group II (3.22 : 1g) while the Sudan (Sorghum sudananse) grass fed group III had lowest feed conversion efficiency (4.6). Average daily gain (ADG) was 21.78 ± 0.44, 24.89 and 23.55 g/day respectively showing, higher (P<0.05) ADG in group III as compare to other three groups. The results was calculated that the kids fed on Sudan grass had higher dry matter intake, digestibility of nutrients and average daily gain than kids fed on Dumer and Series tree leaves.

Biography

Muneendra Kumar has completed his B.V.Sc. & A.H. at the age of 25 years from Pandit Deen Dayal Upadhyaya Pashu Chikitsa Vidyapeeth (DUVASU) Mathura – 281001 (India), post graduation in animal nutrition from National Dairy Research Institute, Karnal (awarded Junior Research Fellow by Indian Council of Agricultural Research for post graduation programme) and now perusing Ph.D. from same University. He has published more than three papers and eight abstracts in national and international conferences.