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Investigation on the Effects of Supplementation of Chickpea Husk and Boiled Sesame Meal on the Performance of Growing Bulls in Myanmar

AUNG AUNG, KHIN SAN MU, MAR MAR KYI, MOE THIDA HTUN, TIN NGWE, NI NI MAW

University of Veterinary Science, Department of Physiology and Biochemistry, Myanmar

Abstract

Four growing bulls in Yezin area in were randomly allotted to a 2×2 factorial arrangement in a 4×4 Latin square design to compare the effectiveness of four diets. Four dietary treatments were RUSC1 (Urea-treated rice straw + Untreated sesame meal + chickpea husk at the level of 0.1 % of liveweight), RBSC1 (Urea-treated rice straw + boiled sesame meal + chickpea husk at the level of 0.1 % of liveweight), RUSC2 (Urea-treated rice straw + untreated sesame meal + chickpea husk at the level of 0.2 % of liveweight) and RBSC2 (Urea-treated rice straw + boiled sesame meal + chickpea husk at the level of 0.2 % of liveweight). All dietary treatments were weekly adjusted by supplements at the level of crude protein not less than 10 %. Each feeding trial consisted of 15 days of adaptation, 7 days of preliminary feeding, 16 days of determination of voluntary intake for urea-treated rice straw and 3 days of faecal and urine collection. TDN intake (83.62 g/kg0.75 / day) for RUSC1 was satisfactory in comparison with other treatments, although the significant difference ($p < 0.05$) was not observed. Achievements for RBSC1 (63.28, 68.66, 83.18, and 73.75 %) were relatively higher than those of RUSC 2, RBSC2 and RBSC2. Slight differences in daily weight gain (0.82, 0.67, 0.51 and 0.64) were observed among the treatment means and that of RUSC1 was umerically satisfied. These parameters observed in this experiment showed that feed efficiency and weight gain of RUSC1 was numerically characteristic although is not significantly ($p < 0.05$) higher than those of other dietary treatments.

Keywords: Bolied sesame meal, chickpea husk, growing bulls